

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN012720\
 Data File : VN059882.D
 Acq On : 27 Jan 2020 18:59
 Operator : JC/MD
 Sample : PB126348ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 27 23:12:35 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	207010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	313297	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	281168	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120179	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	110754	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
35) Dibromofluoromethane	7.56	113	95099	50.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.80%	
50) Toluene-d8	10.08	98	370017	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	12.40	95	124903	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	

Target Compounds

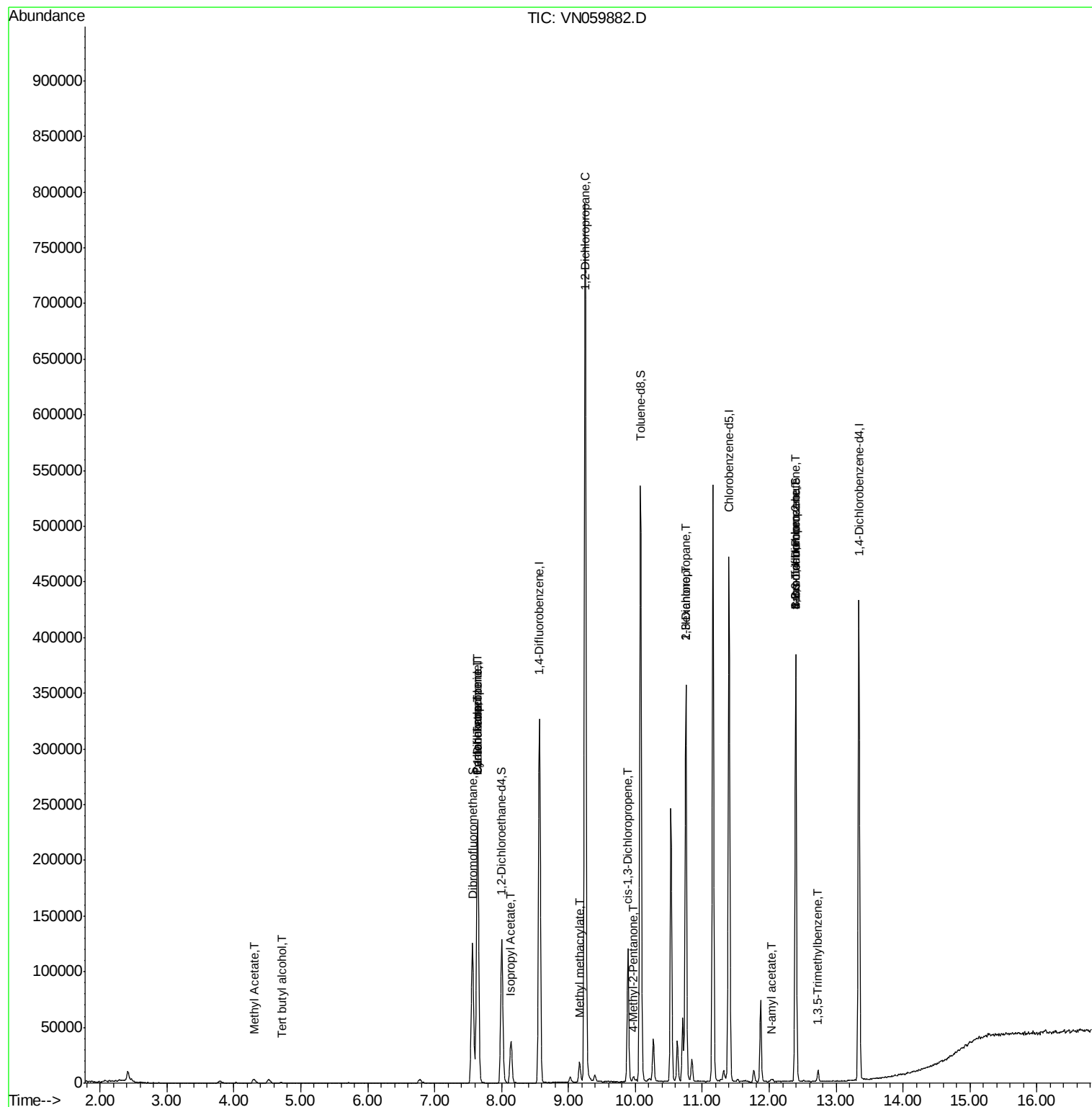
					Qvalue	
11) Tert butyl alcohol	4.72	59	90	0.233	ug/l #	72
16) Acetone	3.79	43	3166	Below Cal	#	88
18) Methyl Acetate	4.30	43	6984	2.601	ug/l	93
31) Cyclohexane	7.64	56	3991	1.173	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14370	5.267	ug/l #	51
38) Carbon Tetrachloride	7.64	117	18341	6.180	ug/l #	16
43) Isopropyl Acetate	8.14	43	45482	10.333	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	953	0.473	ug/l #	44
48) Methyl methacrylate	9.16	41	2710	1.377	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2412	0.948	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	22841	6.793	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3745	1.159	ug/l #	42
59) 2-Hexanone	10.75	43	48227	25.729	ug/l #	55
71) Bromoform	12.40	173	703	0.411	ug/l #	1
74) N-amyl acetate	12.03	43	1960	0.573	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	63690	31.491	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5865	0.791	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	63690	67.627	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	99	Below Cal	#	6

(#) = 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# 1825

Delta R.T. 0.00 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

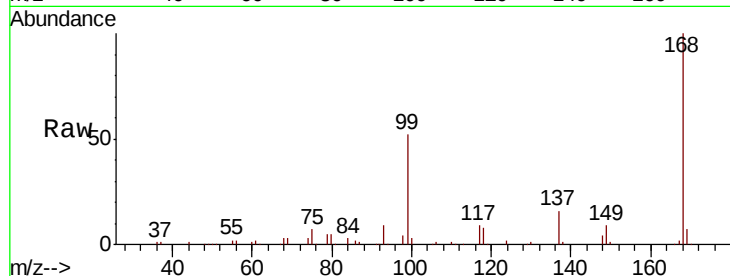
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 207010

Ion Ratio Lower Upper

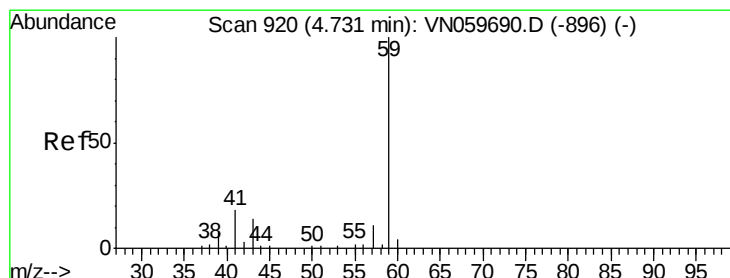
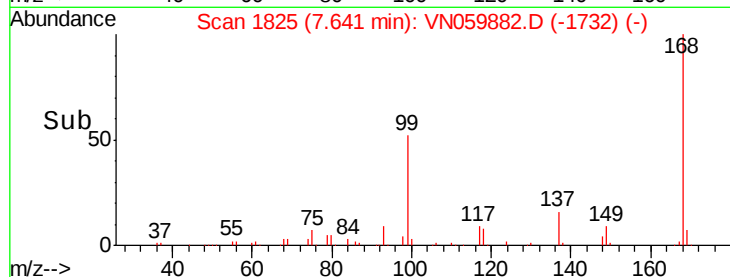
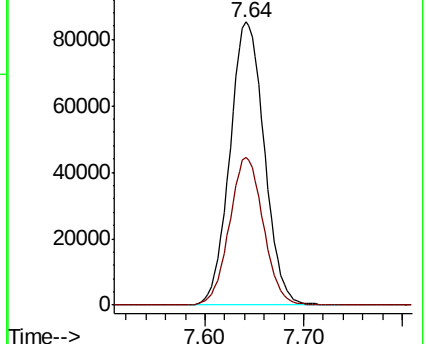
168 100

99 52.4 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.233 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.01 min

Lab File: VN059882.D

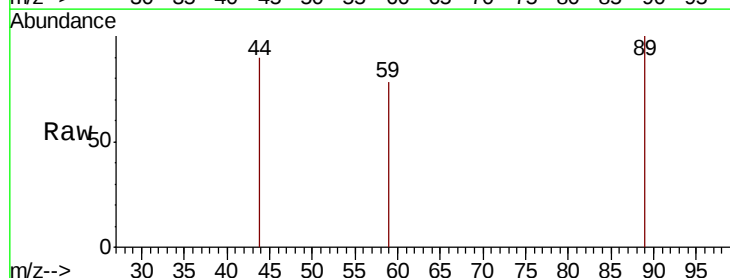
Acq: 27 Jan 2020 18:59

Tgt Ion: 59 Resp: 90

Ion Ratio Lower Upper

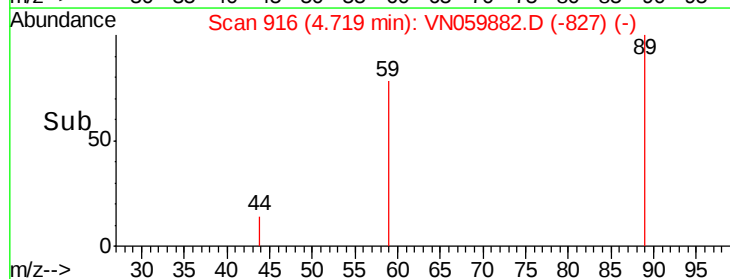
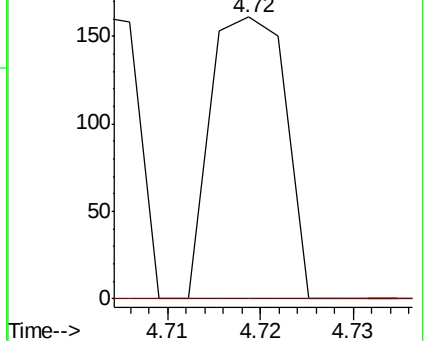
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

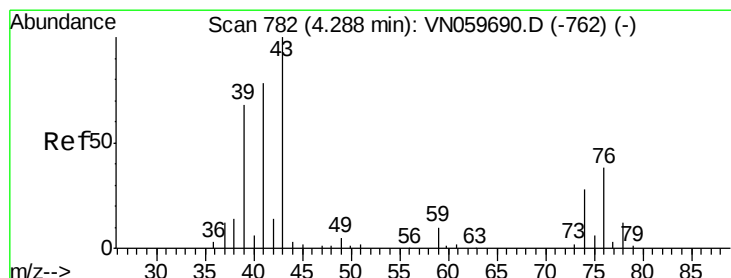
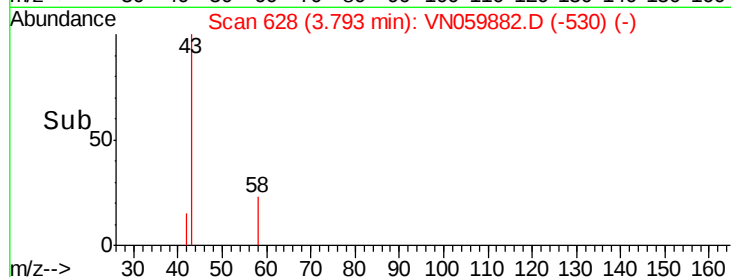
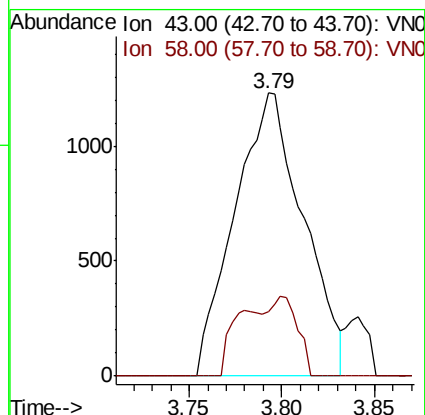
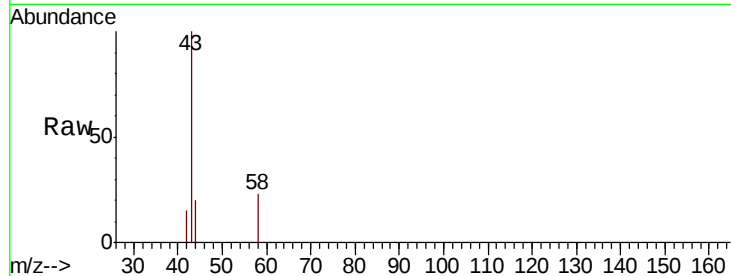
ClientSampled :

Tot Ion: 43 Resp: 3166

Ion Ratio Lower Upper

43 100

58 23.0 23.6 35.4#



#18

Methyl Acetate

Concen: 2.601 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059882.D

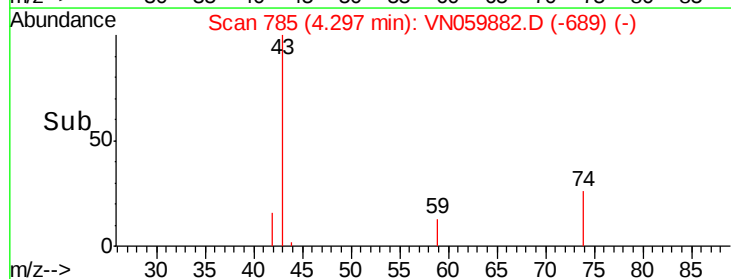
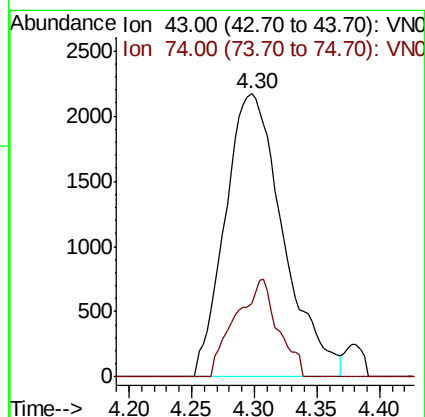
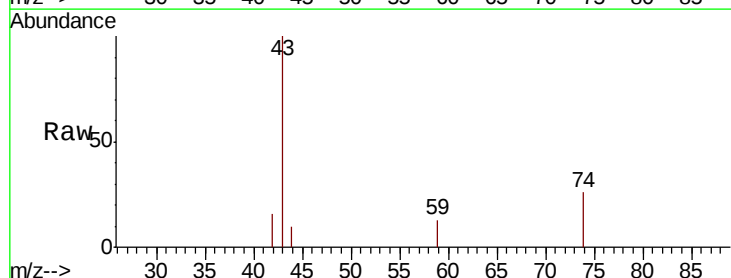
Acq: 27 Jan 2020 18:59

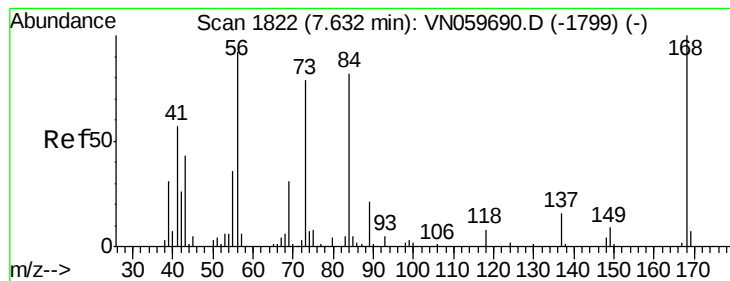
Tgt Ion: 43 Resp: 6984

Ion Ratio Lower Upper

43 100

74 25.4 17.5 26.3





#31

Cyclohexane

Concen: 1.173 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

ClientSampled :

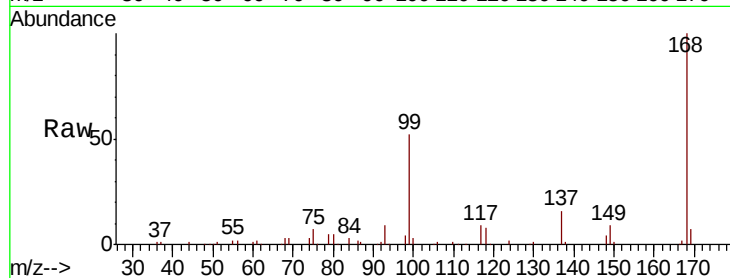
Tot Ion: 56 Resp: 3991

Ion Ratio Lower Upper

56 100

69 158.7 26.5 39.7#

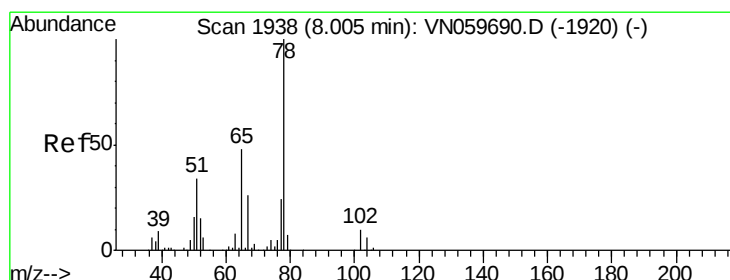
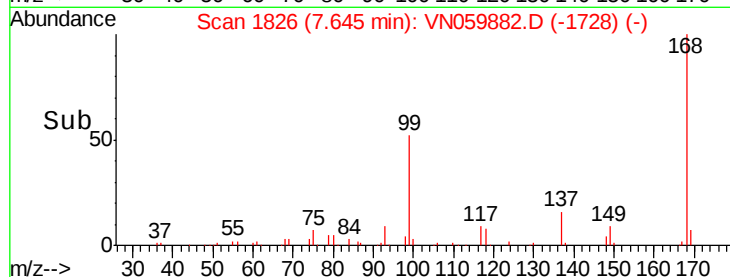
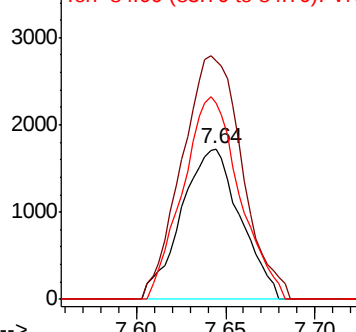
84 130.1 65.3 97.9#



Abundance Ion 56.00 (55.70 to 56.70): VN059690.D (-1799) (-)

Ion 69.00 (68.70 to 69.70): VN059690.D (-1799) (-)

Ion 84.00 (83.70 to 84.70): VN059690.D (-1799) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.177 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN059882.D

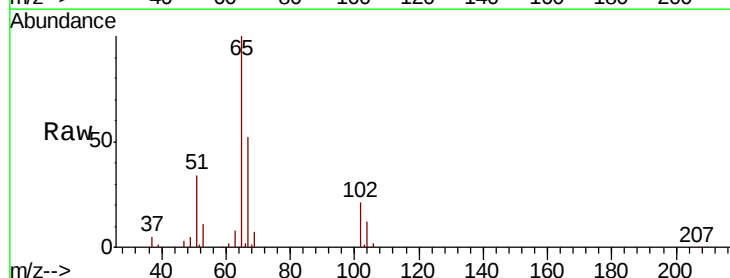
Acq: 27 Jan 2020 18:59

Tgt Ion: 65 Resp: 110754

Ion Ratio Lower Upper

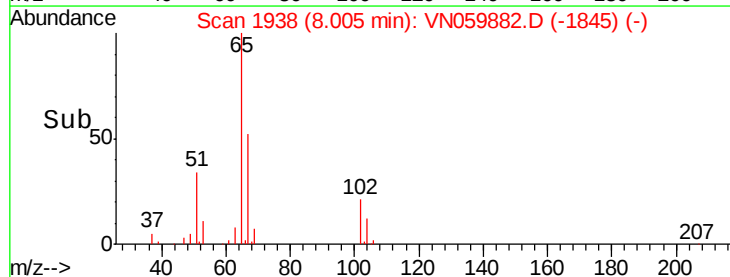
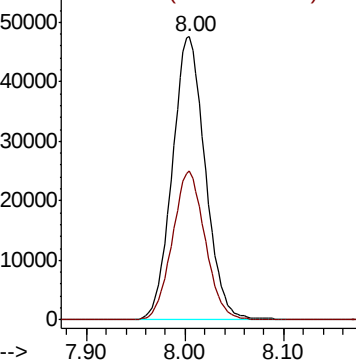
65 100

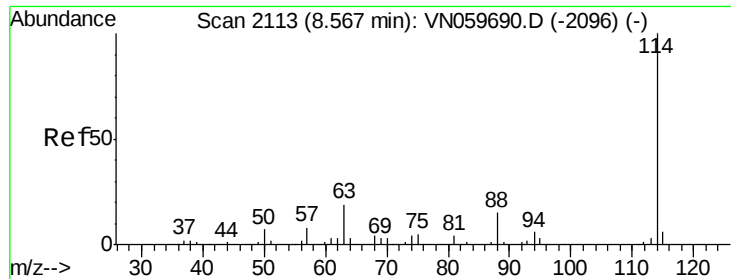
67 52.4 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN059690.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN059690.D (-1920) (-)

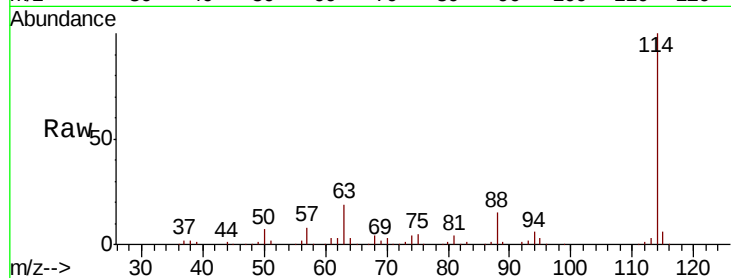




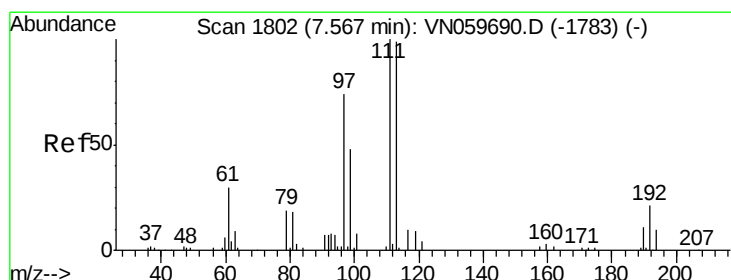
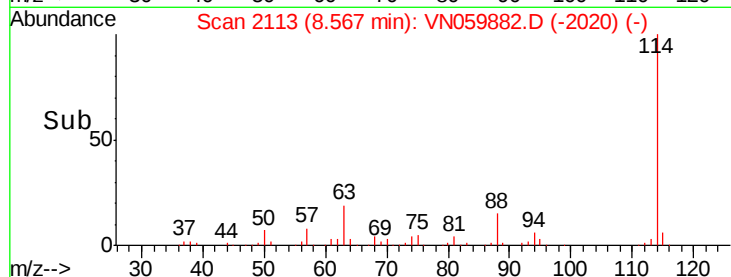
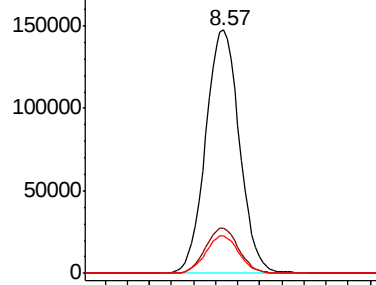
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN059882.D
Acq: 27 Jan 2020 18:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 313297
Ion Ratio Lower Upper
114 100
63 18.6 0.0 43.6
88 15.2 0.0 31.4

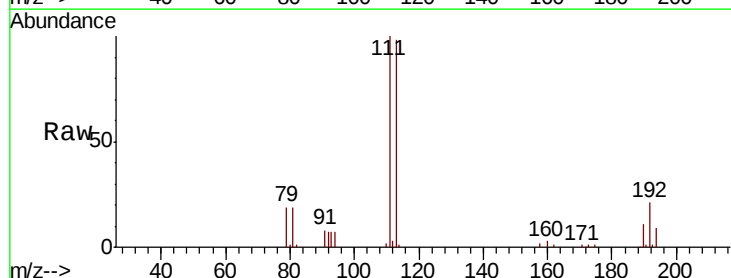


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

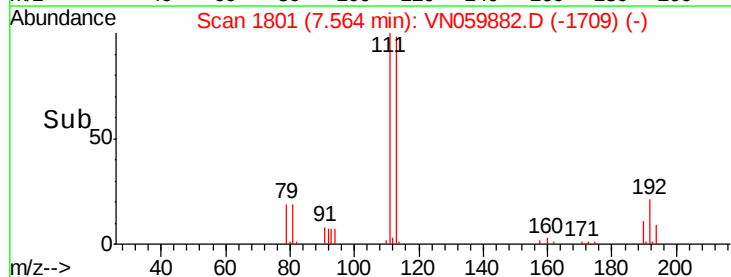
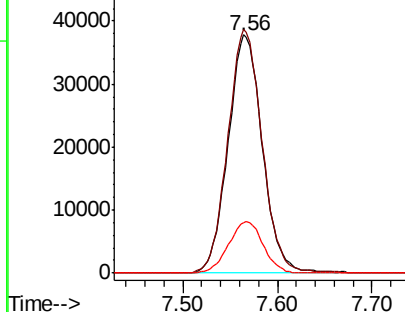


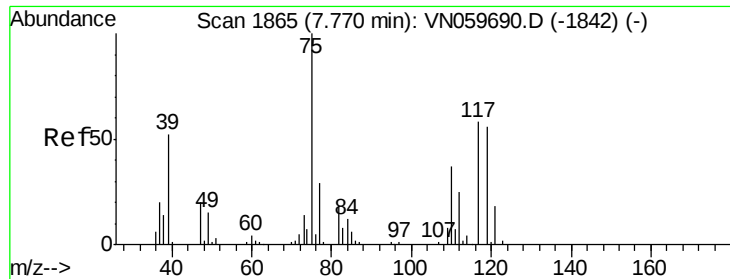
#35
Dibromofluoromethane
Concen: 50.901 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN059882.D
Acq: 27 Jan 2020 18:59

Tgt Ion:113 Resp: 95099
Ion Ratio Lower Upper
113 100
111 102.0 83.5 125.3
192 21.7 15.4 23.2



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

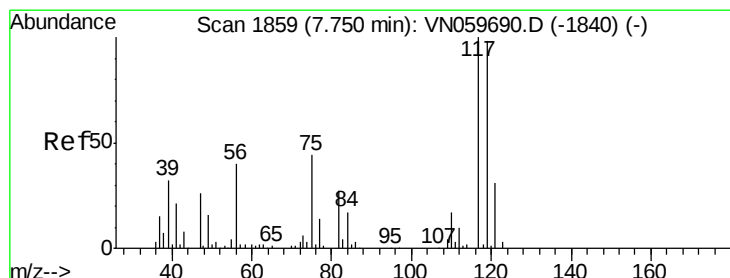
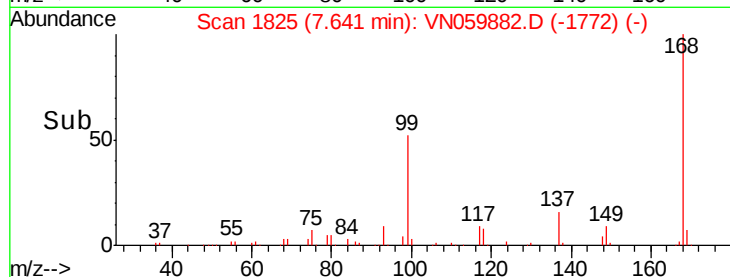
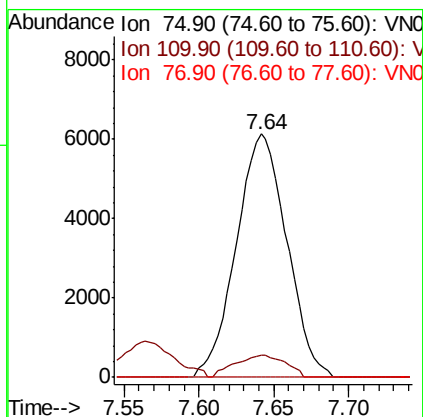
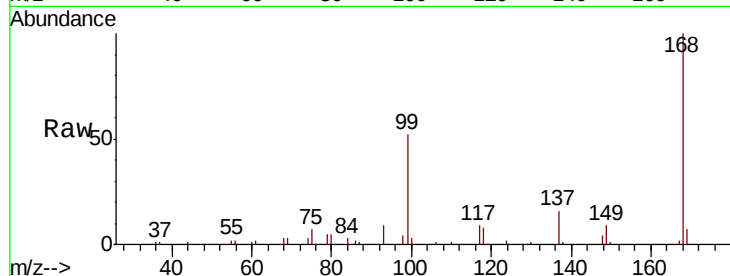




#36
 1,1-Dichloropropene
 Concen: 5.267 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059882.D
 Acq: 27 Jan 2020 18:59

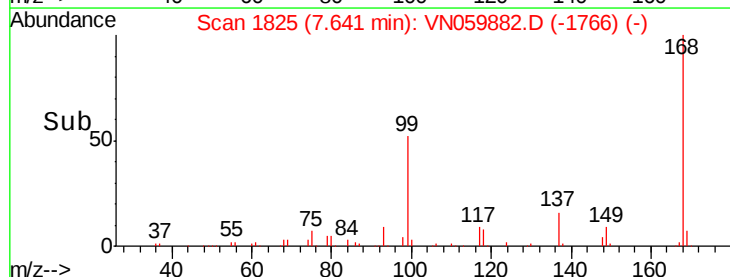
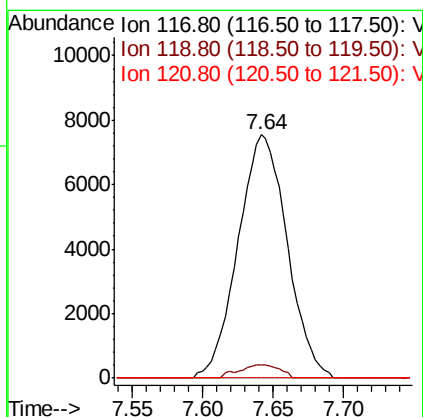
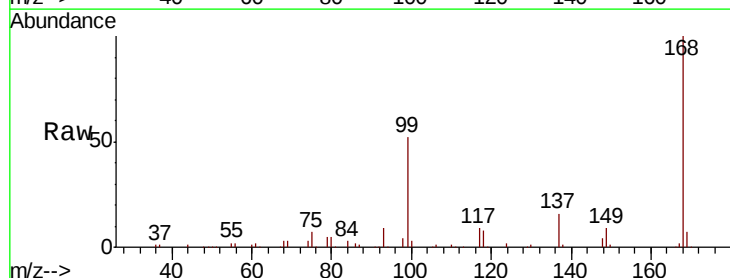
Instrument :
 MSVOA_N
 ClientSampleId :

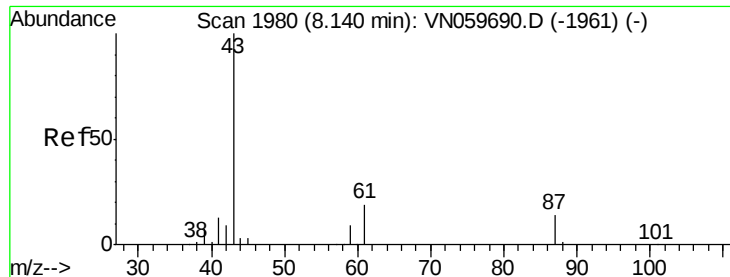
Tot Ion	75	Resp	14370
Ion Ratio	Lower	Upper	
75	100		
110	9.1	16.6	49.7#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.180 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059882.D
 Acq: 27 Jan 2020 18:59

Tgt Ion	117	Resp	18341
Ion Ratio	Lower	Upper	
117	100		
119	5.3	76.5	114.7#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 10.333 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

ClientSampled :

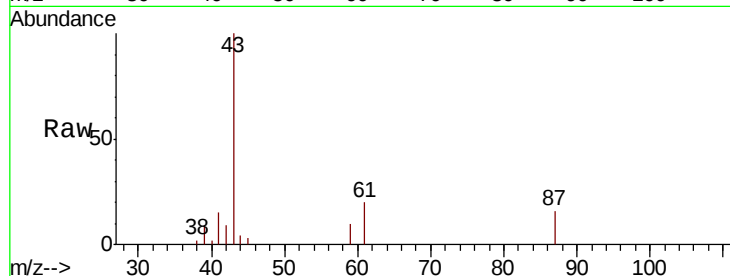
Tot Ion: 43 Resp: 45482

Ion Ratio Lower Upper

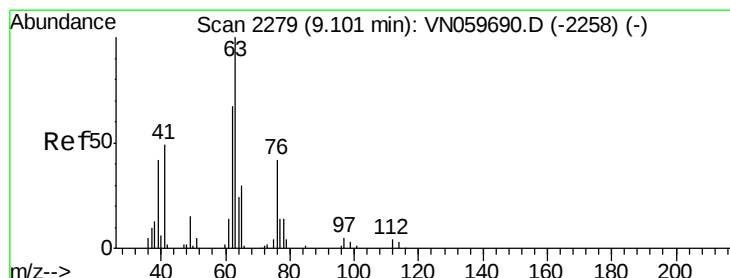
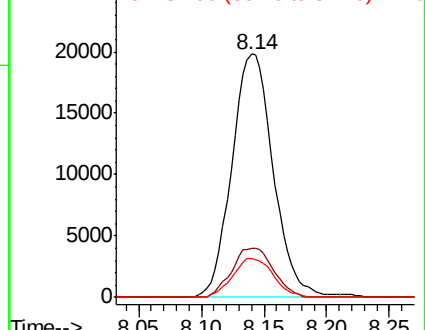
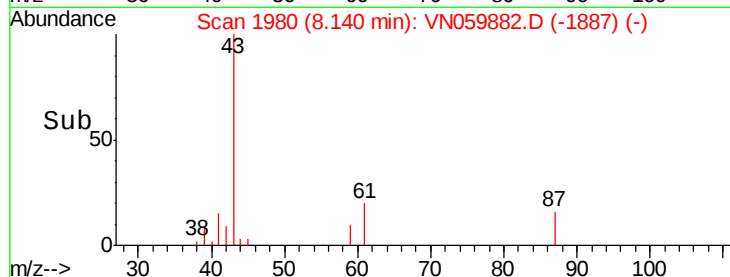
43 100

61 20.3 20.2 30.2

87 15.7 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN059882.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.473 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN059882.D

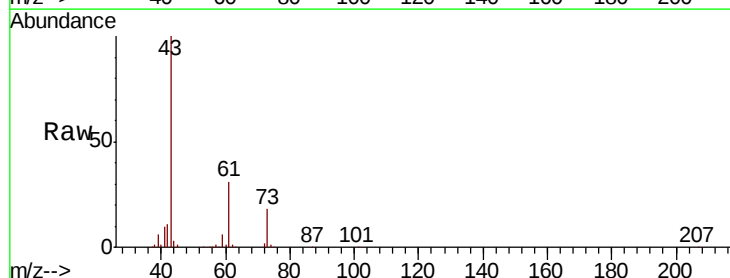
Acq: 27 Jan 2020 18:59

Tgt Ion: 63 Resp: 953

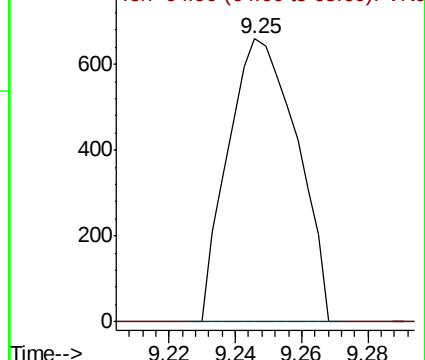
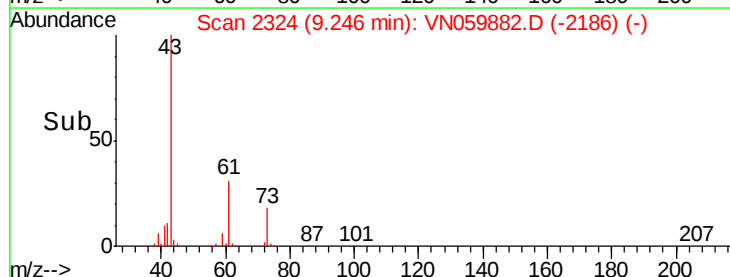
Ion Ratio Lower Upper

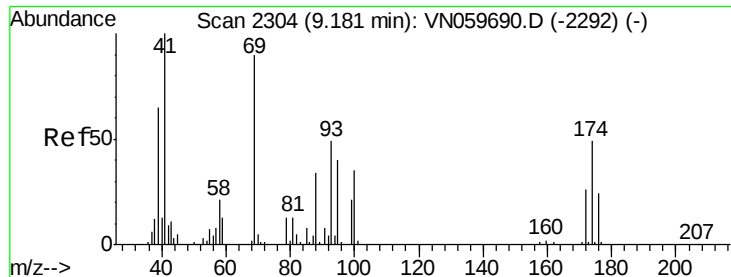
63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN059882.D (-2186) (-)

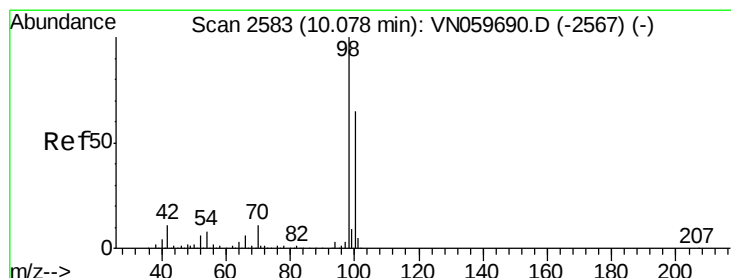
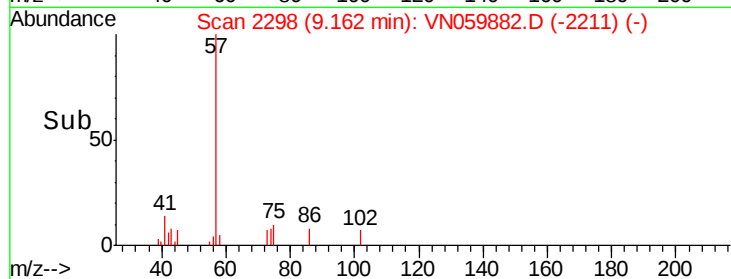
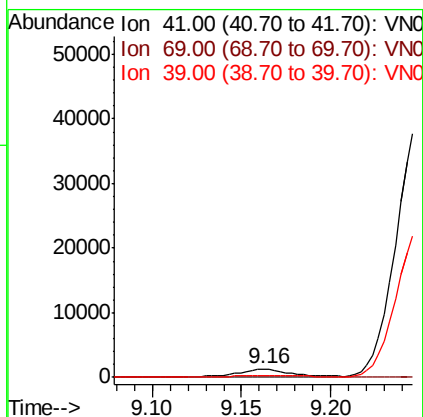
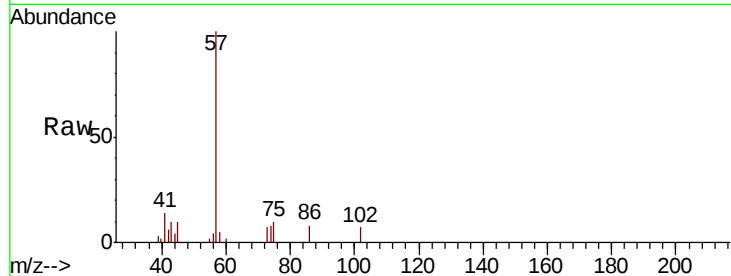




#48
Methvl methacrylate
Concen: 1.377 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059882.D
Acq: 27 Jan 2020 18:59

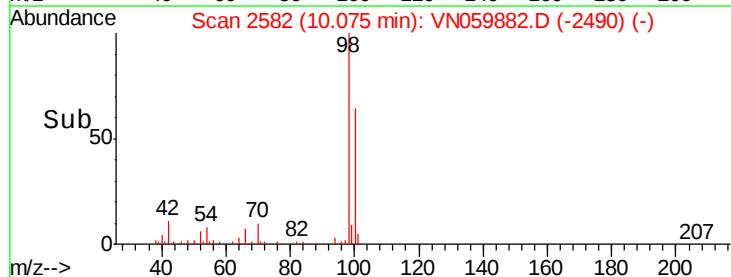
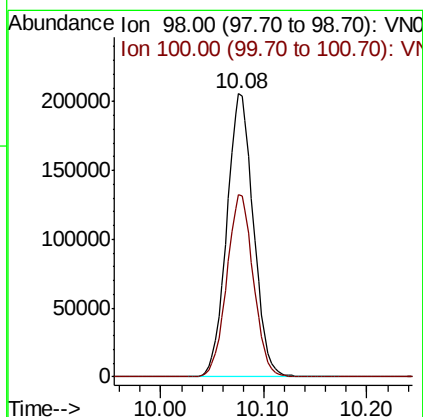
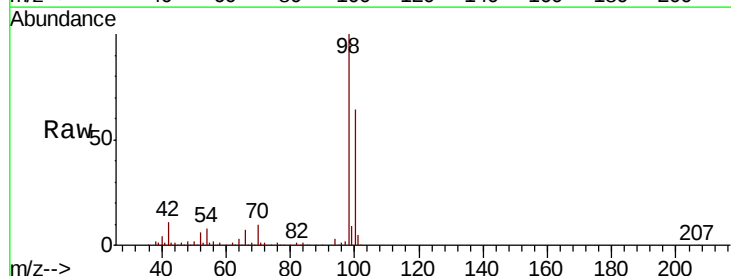
Instrument :
MSVOA_N
ClientSampled :

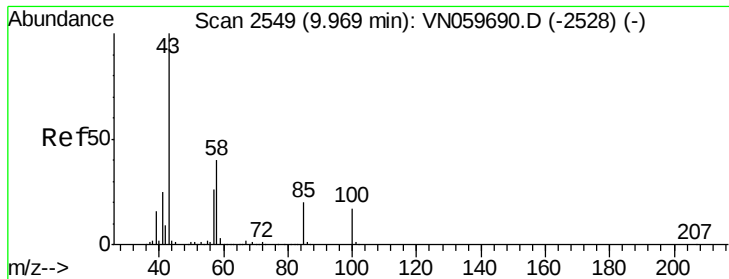
Tot Ion: 41 Resp: 2710
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.115 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN059882.D
Acq: 27 Jan 2020 18:59

Tgt Ion: 98 Resp: 370017
Ion Ratio Lower Upper
98 100
100 64.4 51.2 76.8

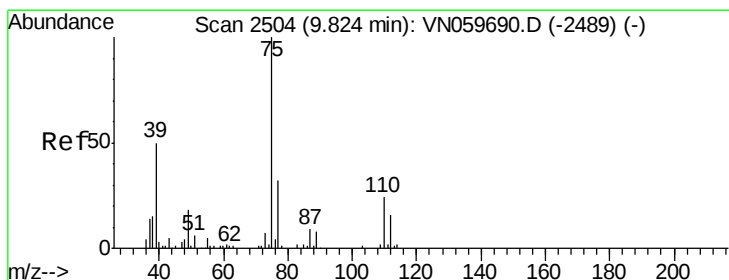
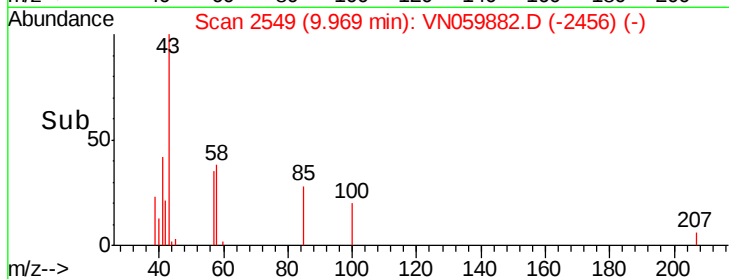
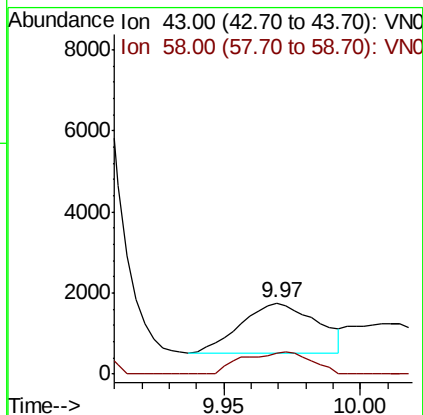
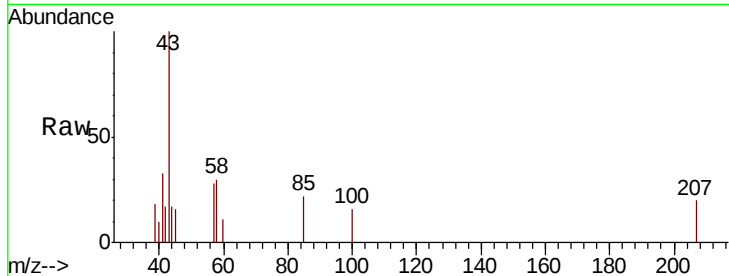




#51
 4-Methyl-2-Pentanone
 Concen: 0.948 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN059882.D
 Acq: 27 Jan 2020 18:59

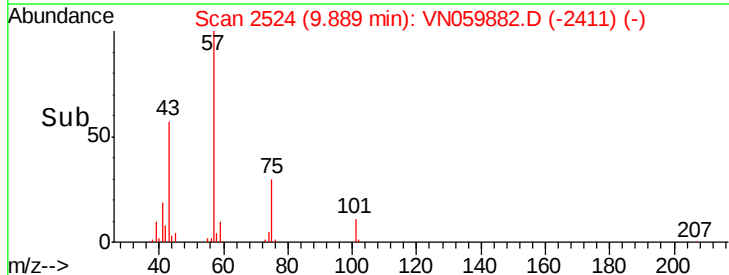
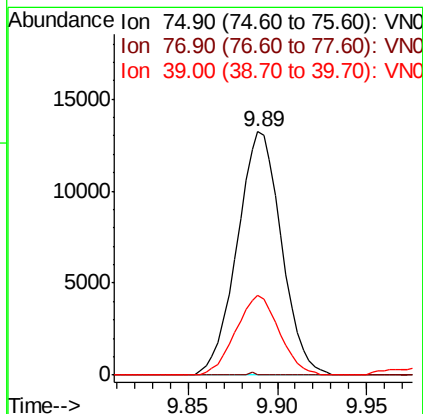
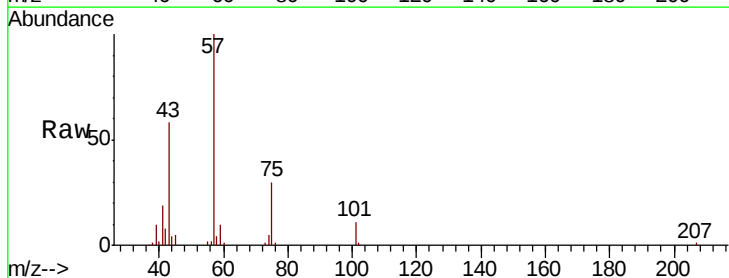
Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 2412
 Ion Ratio Lower Upper
 43 100
 58 40.1 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 6.793 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN059882.D
 Acq: 27 Jan 2020 18:59

Tgt Ion: 75 Resp: 22841
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 32.6 46.1 69.1#

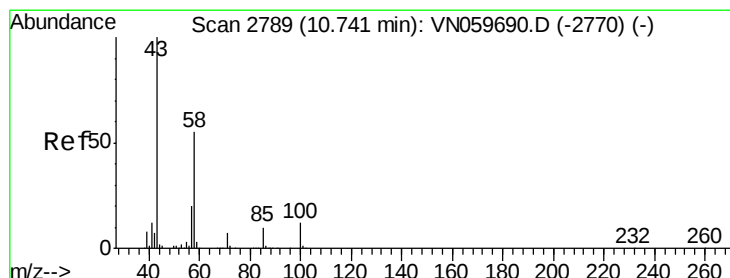
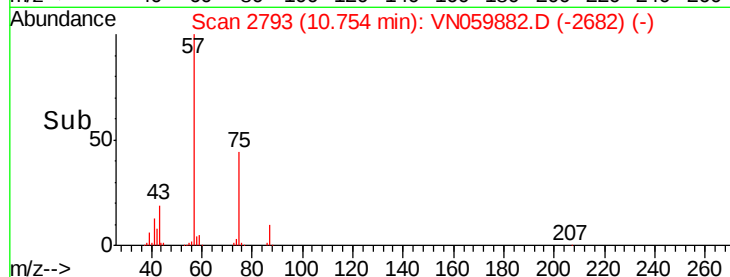
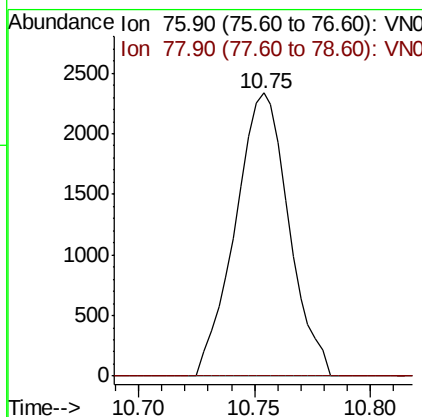
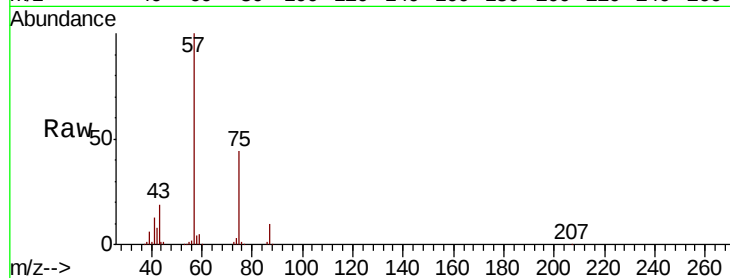




#57
 1,3-Dichloropropane
 Concen: 1.159 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059882.D
 Acq: 27 Jan 2020 18:59

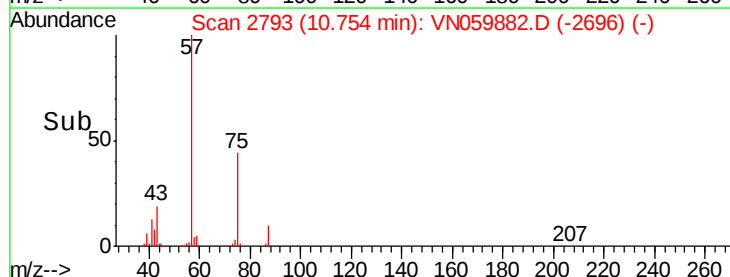
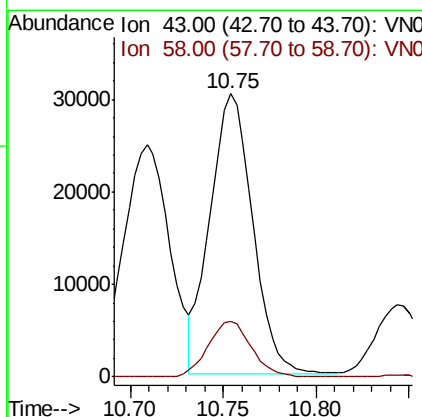
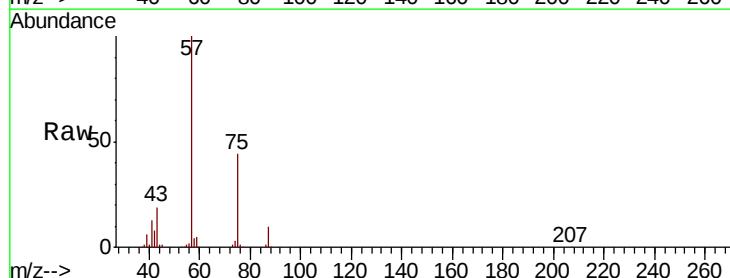
Instrument :
 MSVOA_N
 ClientSampled :

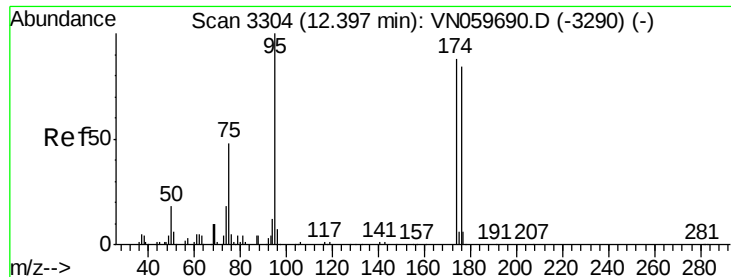
Tot Ion: 76 Resp: 3745
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 25.729 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059882.D
 Acq: 27 Jan 2020 18:59

Tgt Ion: 43 Resp: 48227
 Ion Ratio Lower Upper
 43 100
 58 20.1 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 47.863 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

ClientSampled :

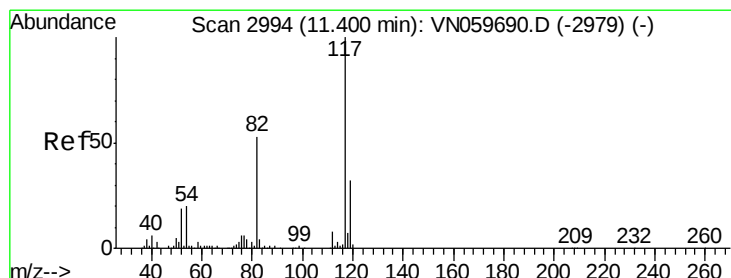
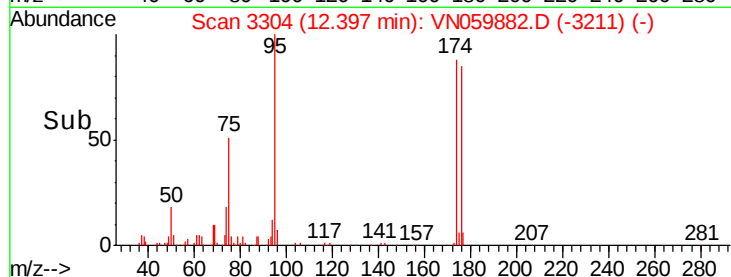
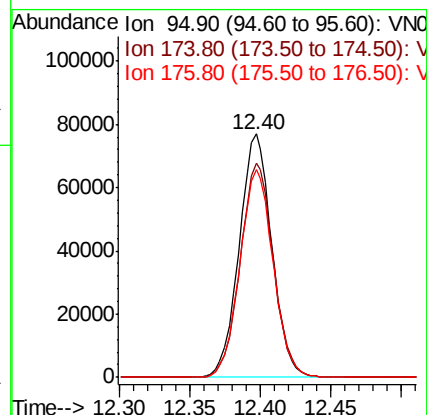
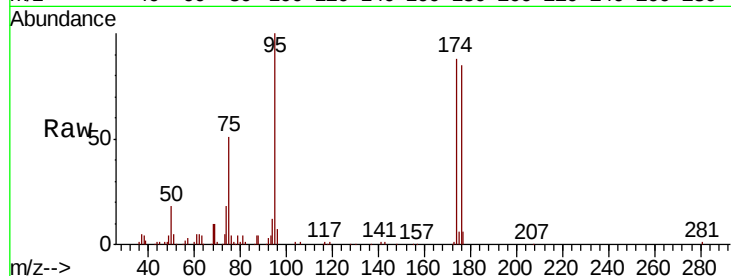
Tot Ion: 95 Resp: 124903

Ion Ratio Lower Upper

95 100

174 89.2 0.0 151.4

176 87.0 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: VN059882.D

Acq: 27 Jan 2020 18:59

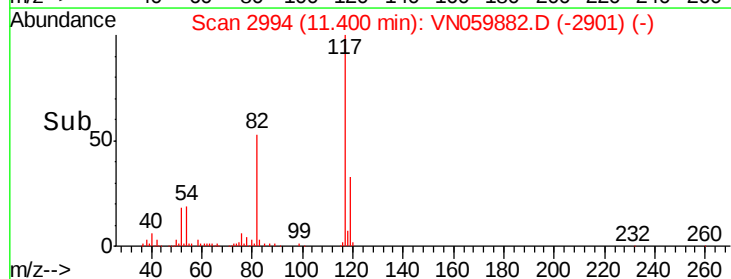
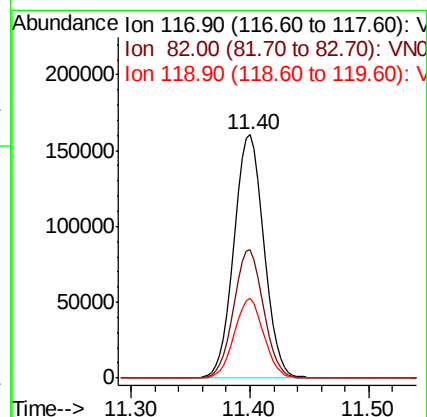
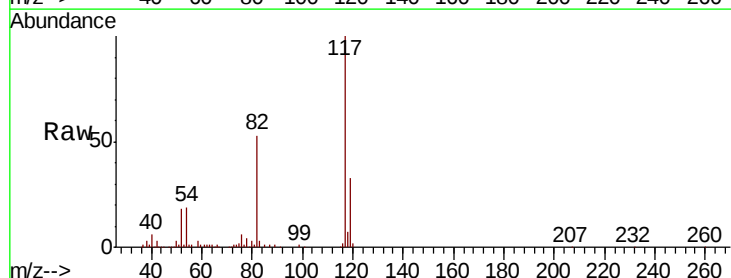
Tgt Ion: 117 Resp: 281168

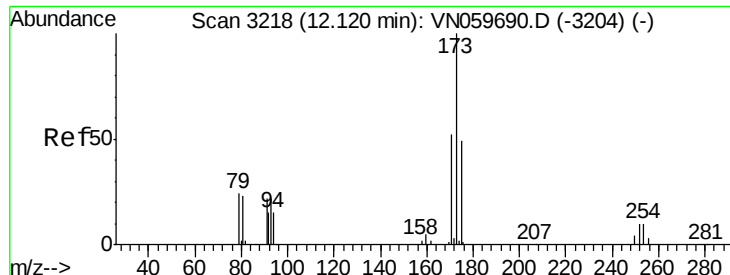
Ion Ratio Lower Upper

117 100

82 52.7 45.9 68.9

119 32.6 25.5 38.3

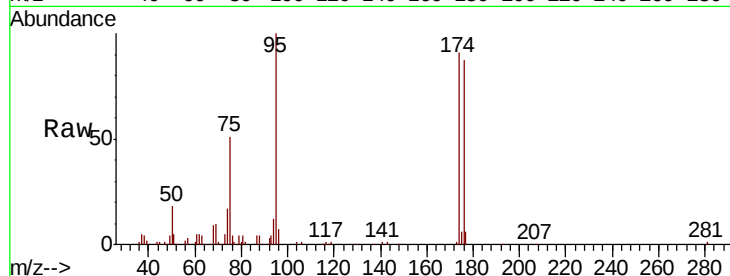




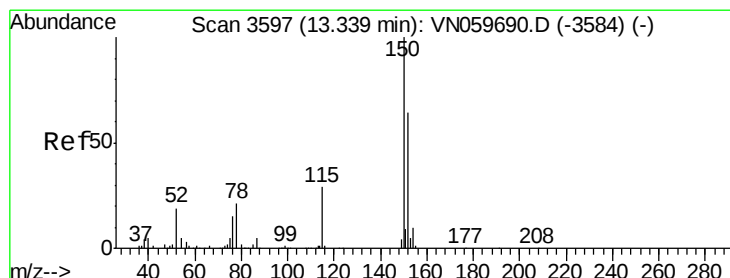
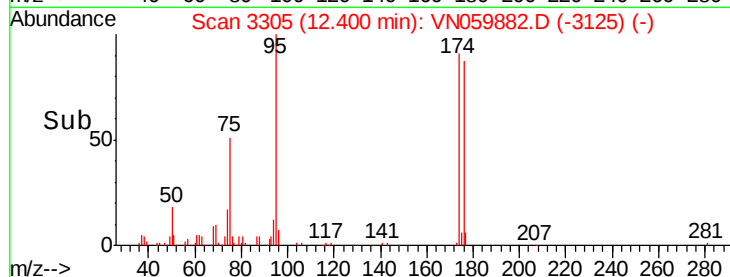
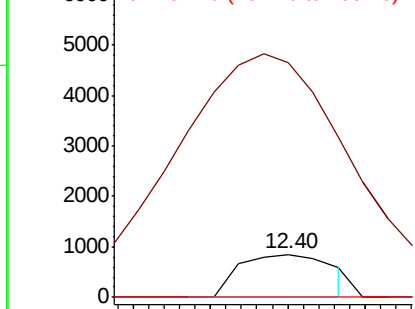
#71
Bromoform
Concen: 0.411 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN059882.D
Acq: 27 Jan 2020 18:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 703
Ion Ratio Lower Upper
173 100
175 964.0 23.8 71.4#
254 0.0 0.0 0.0

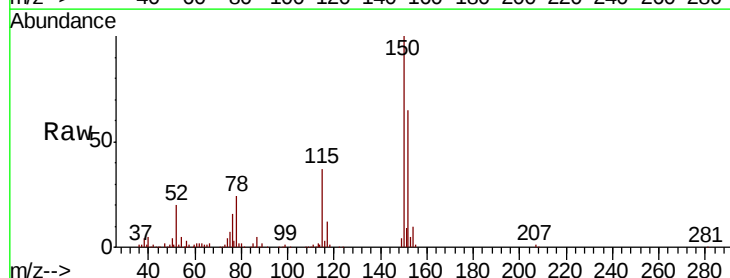


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

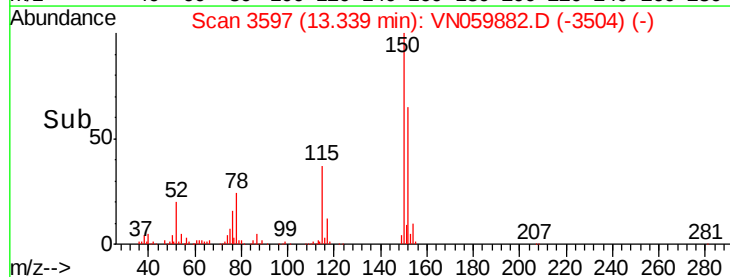
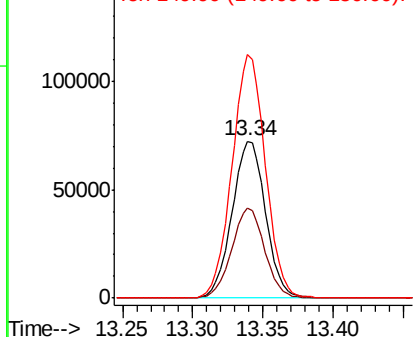


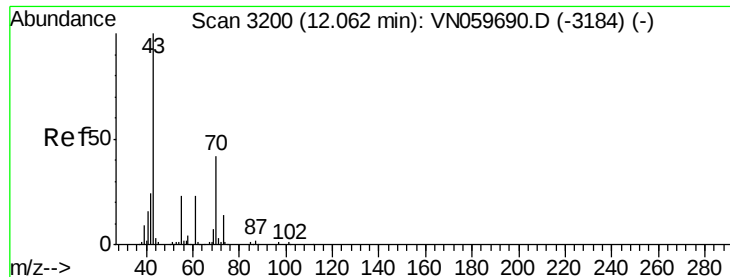
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN059882.D
Acq: 27 Jan 2020 18:59

Tgt Ion:152 Resp: 120179
Ion Ratio Lower Upper
152 100
115 56.4 30.3 90.9
150 155.2 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: 0.573 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1960

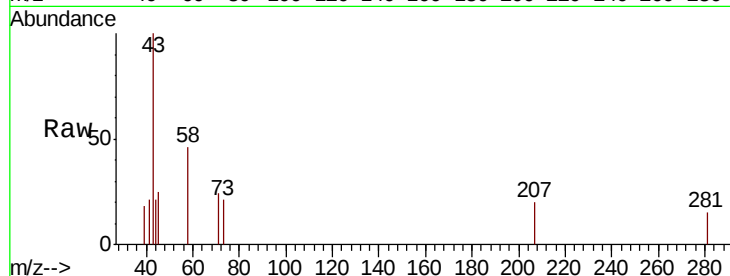
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

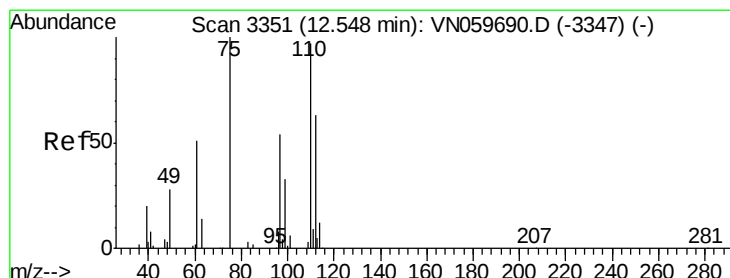
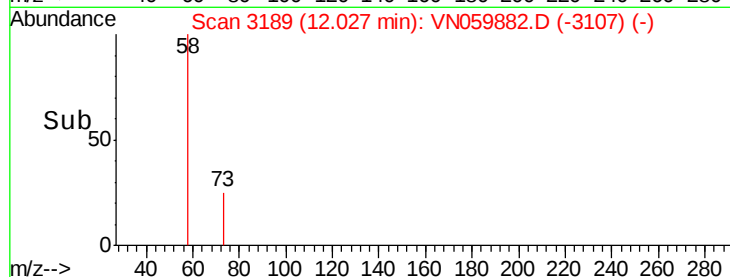
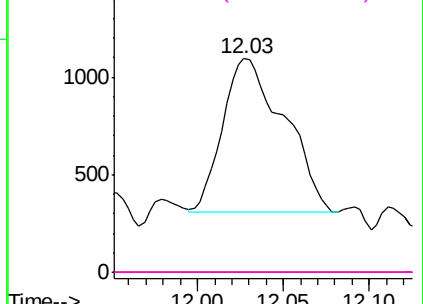


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 31.491 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059882.D

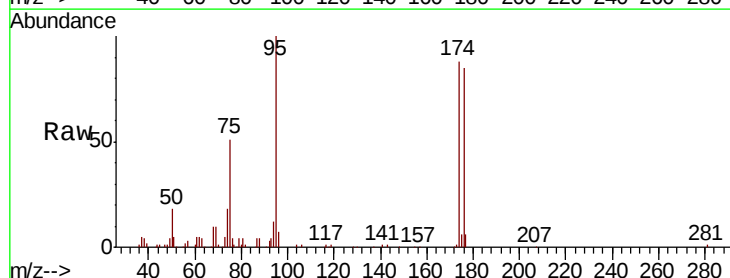
Acq: 27 Jan 2020 18:59

Tgt Ion: 75 Resp: 63690

Ion Ratio Lower Upper

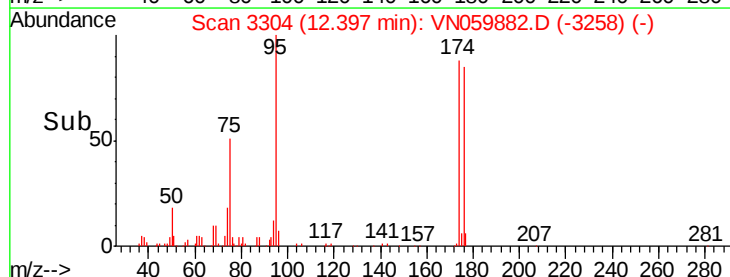
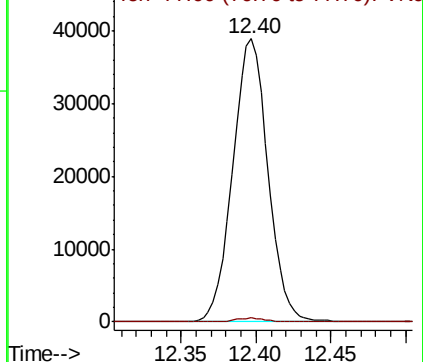
75 100

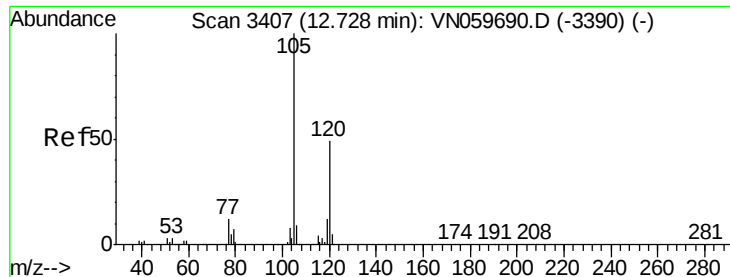
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.791 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

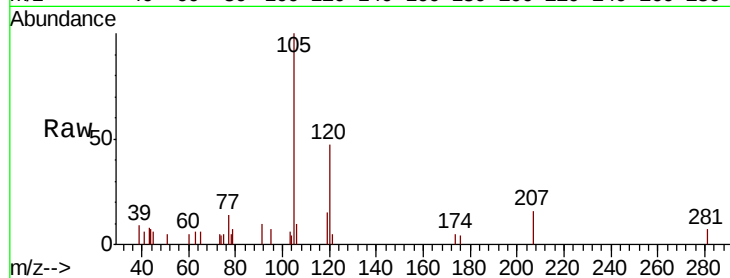
ClientSampleId :

Tot Ion:105 Resp: 5865

Ion Ratio Lower Upper

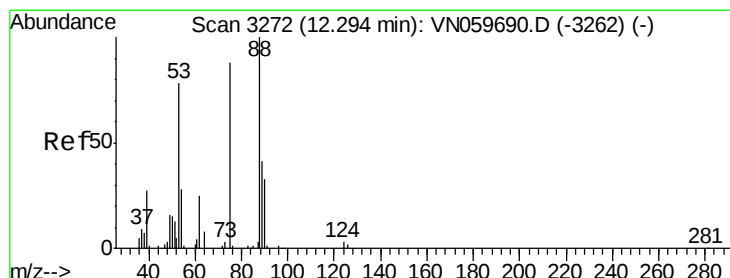
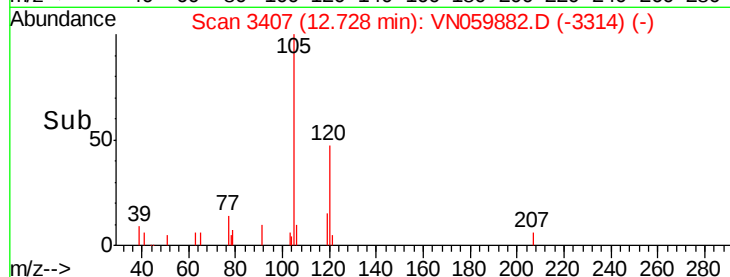
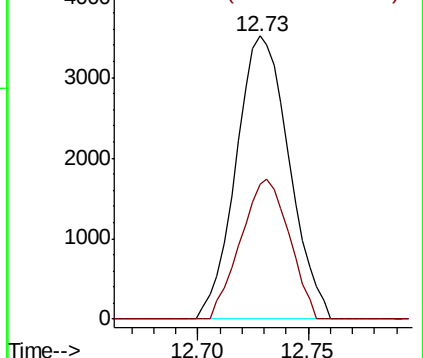
105 100

120 45.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.627 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

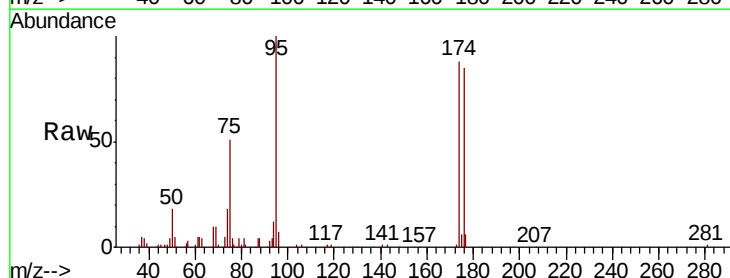
Tgt Ion: 75 Resp: 63690

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

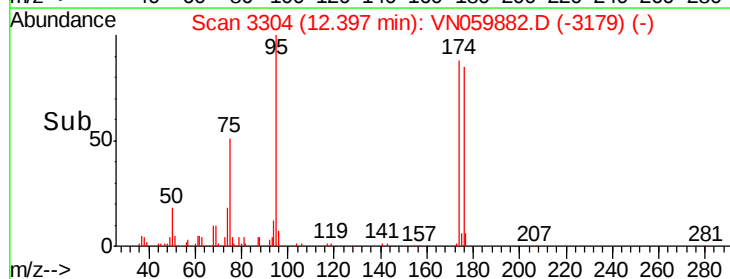
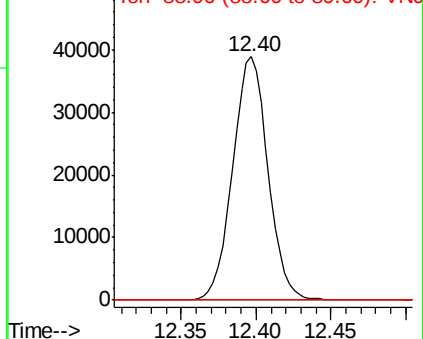
89 0.0 35.4 53.2#

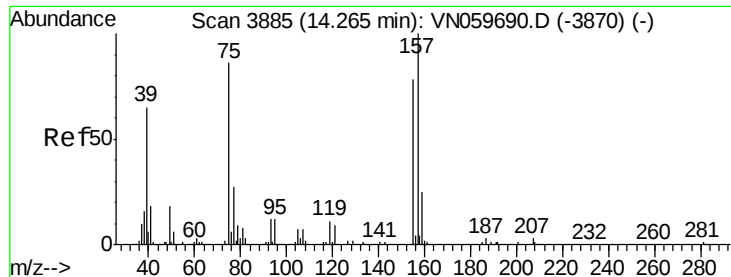


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3885

Delta R.T. 0.00 min

Lab File: VN059882.D

Acq: 27 Jan 2020 18:59

Instrument :

MSVOA_N

ClientSampleId :

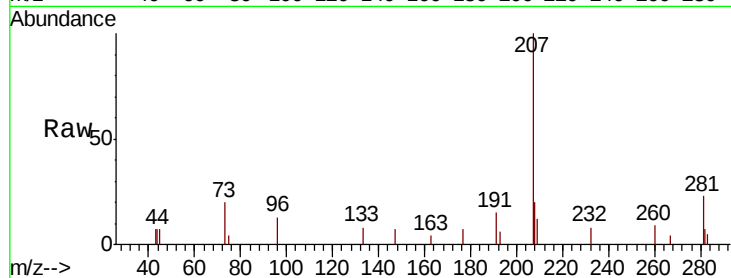
Tot Ion: 75 Resp: 99

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): VN059882.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059882.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059882.D (-3791) (-)

