

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040519\
 Data File : VN054969.D
 Acq On : 5 Apr 2019 14:01
 Operator : JC/SP
 Sample : K2292-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 05 23:32:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N040419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 05 02:23:47 2019
 Response via : Initial Calibration

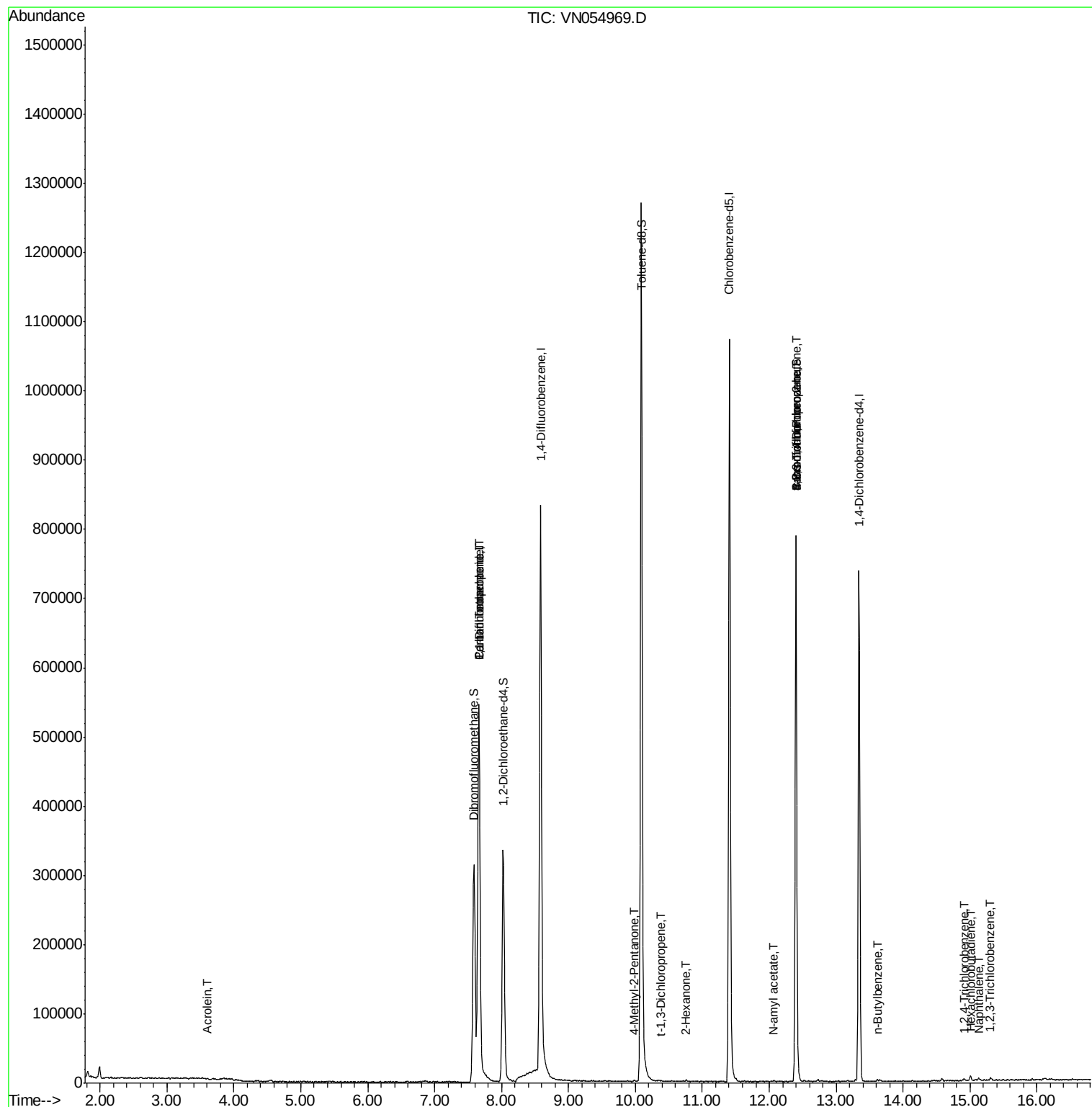
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	478627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	766710	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	647603	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	204371	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.02	65	290469	46.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.06%	
35) Dibromofluoromethane	7.59	113	244368	48.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.92%	
50) Toluene-d8	10.09	98	923825	48.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	12.40	95	274416	43.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.84%	
Target Compounds						
					Qvalue	
13) Acrolein	3.60	56	236	4.633	ug/l #	81
16) Acetone	3.81	43	551	Below Cal	#	48
18) Methyl Acetate	4.34	43	2683	Below Cal	#	69
31) Cyclohexane	7.66	56	10168	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	34869	4.590	ug/l #	50
38) Carbon Tetrachloride	7.66	117	44204	6.025	ug/l #	19
51) 4-Methyl-2-Pentanone	9.98	43	1474	0.301	ug/l #	73
53) t-1,3-Dichloropropene	10.38	75	110	2.041	ug/l #	1
59) 2-Hexanone	10.76	43	1632	0.533	ug/l	92
71) Bromoform	12.39	173	746	0.257	ug/l #	29
74) N-amyl acetate	12.07	43	1419	0.296	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.50	83	30	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	142601	44.964	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	142601	161.175	ug/l #	4
89) n-Butylbenzene	13.62	91	2151	0.200	ug/l	70
93) 1,2,4-Trichlorobenzene	14.91	180	1086	2.743	ug/l	94
94) Hexachlorobutadiene	15.00	225	1466	0.642	ug/l	95
95) Naphthalene	15.13	128	2828	3.213	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.31	180	1493	0.476	ug/l #	19

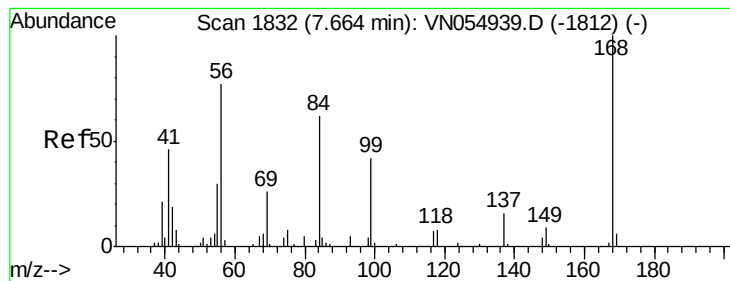
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

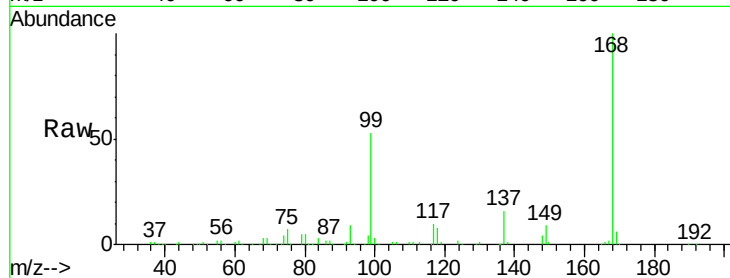
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 478627

Ion Ratio Lower Upper

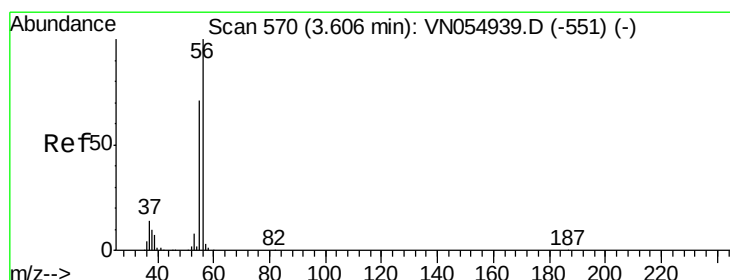
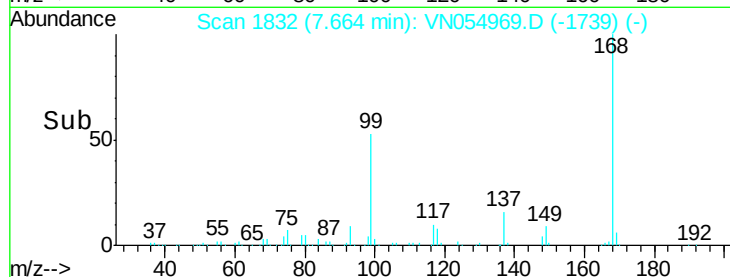
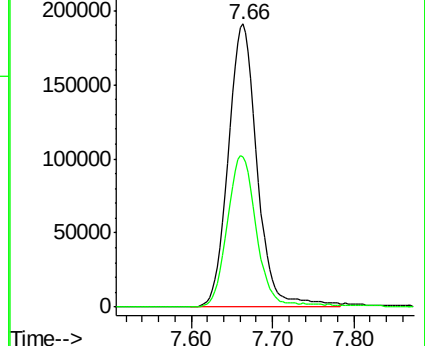
168 100

99 53.0 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#13

Acrolein

Concen: 4.633 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054969.D

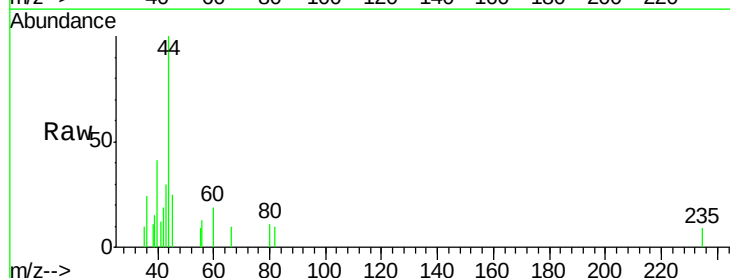
Acq: 5 Apr 2019 14:01

Tgt Ion: 56 Resp: 236

Ion Ratio Lower Upper

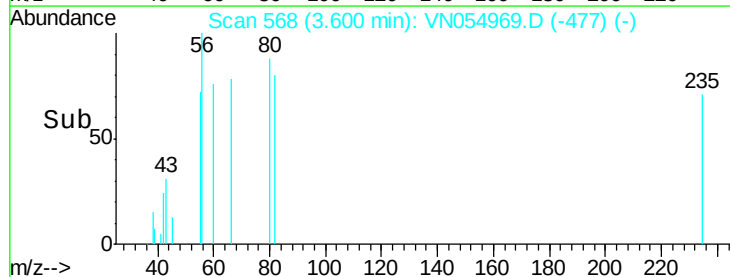
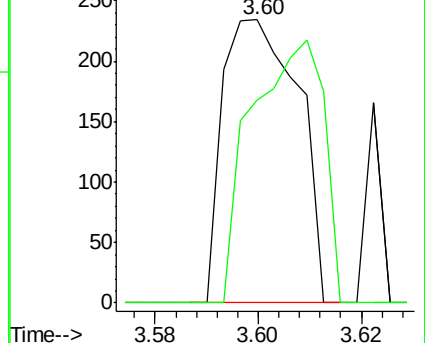
56 100

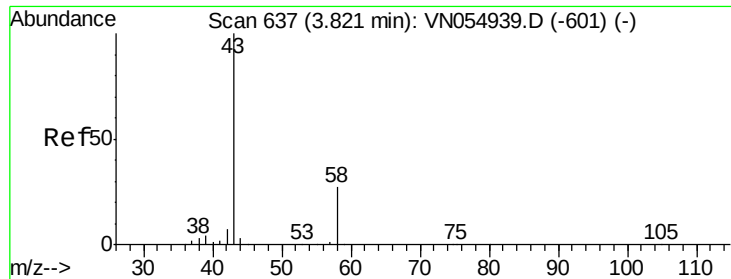
55 89.0 58.6 87.8#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

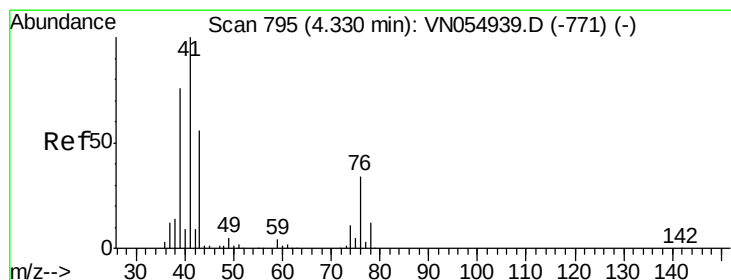
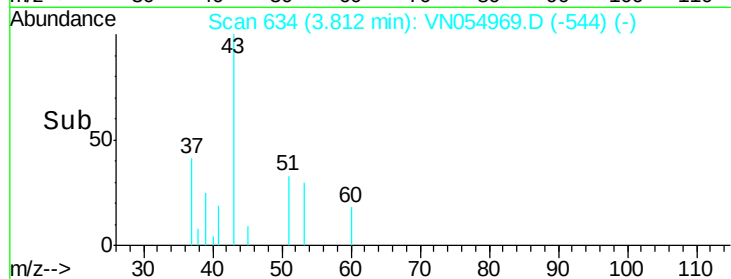
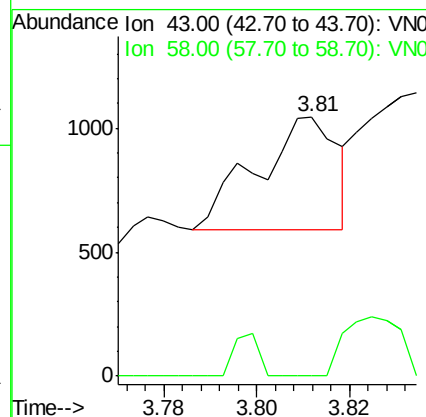
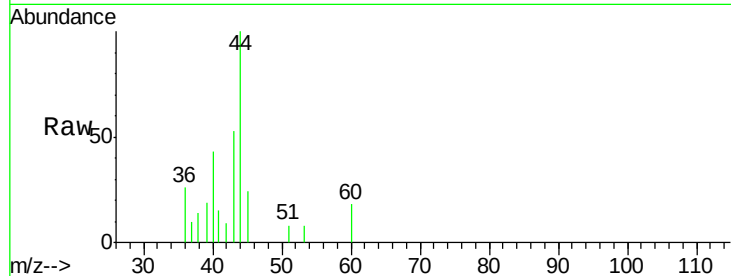




#16
Acetone
Concen: Below Cal
RT: 3.81 min Scan# 634
Delta R.T. -0.01 min
Lab File: VN054969.D
Acq: 5 Apr 2019 14:01

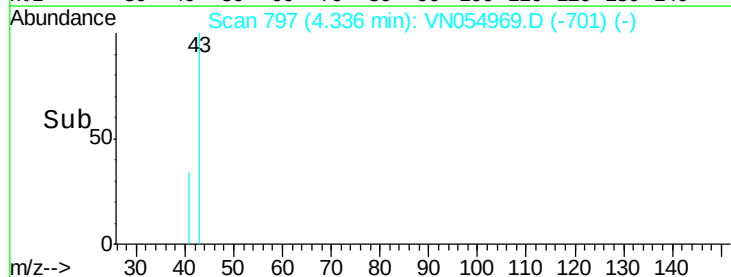
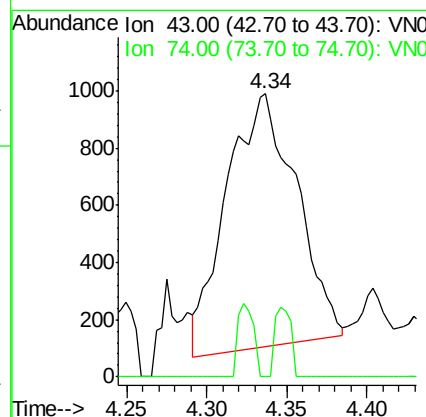
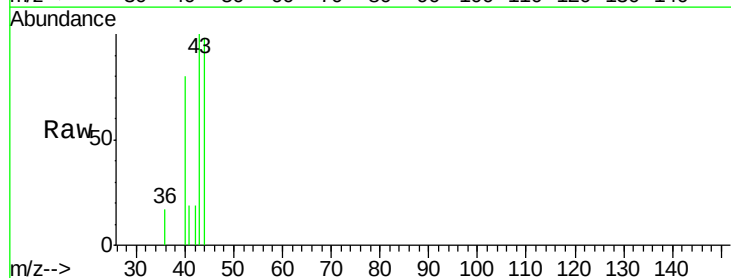
Instrument :
MSVOA_N
ClientSampleId :

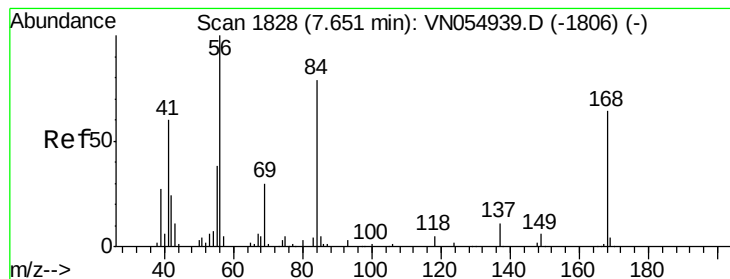
Tot Ion: 43 Resp: 551
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054969.D
Acq: 5 Apr 2019 14:01

Tgt Ion: 43 Resp: 2683
Ion Ratio Lower Upper
43 100
74 6.3 16.4 24.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :
MSVOA_N
ClientSampleId :

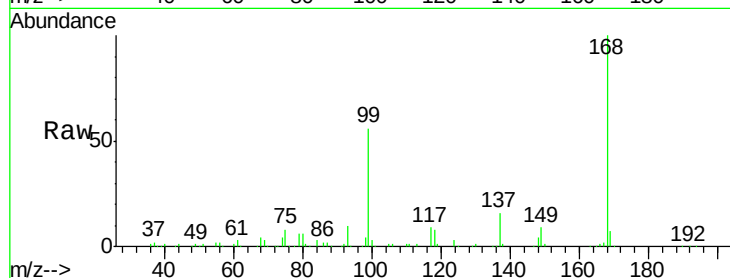
Tot Ion: 56 Resp: 10168

Ion Ratio Lower Upper

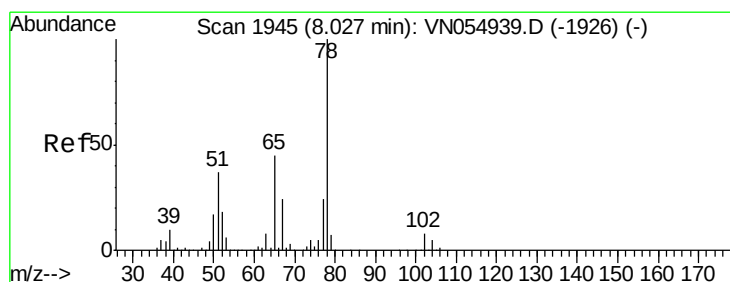
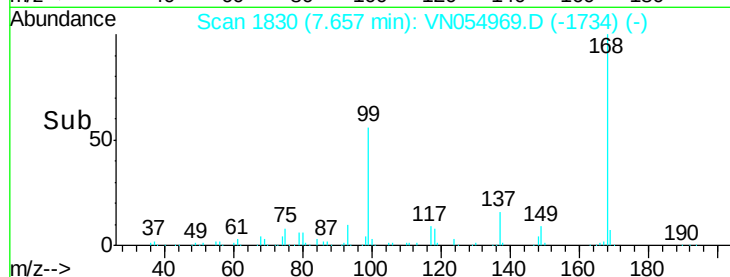
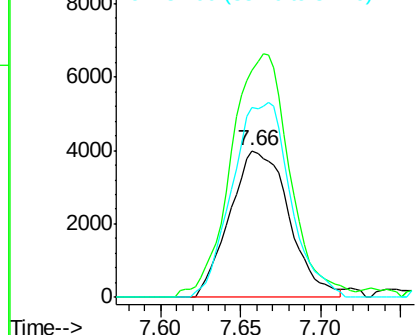
56 100

69 149.3 23.8 35.6#

84 129.3 61.8 92.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 46.029 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN054969.D

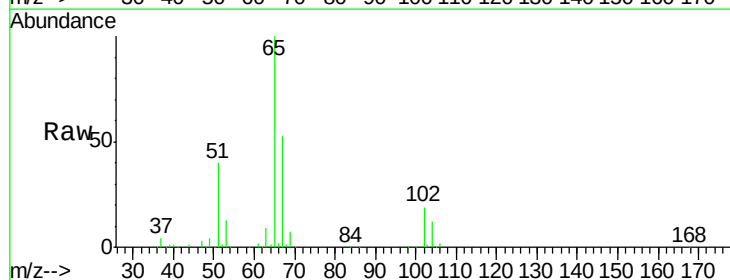
Acq: 5 Apr 2019 14:01

Tgt Ion: 65 Resp: 290469

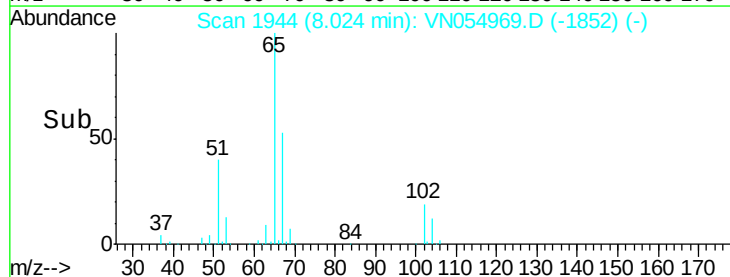
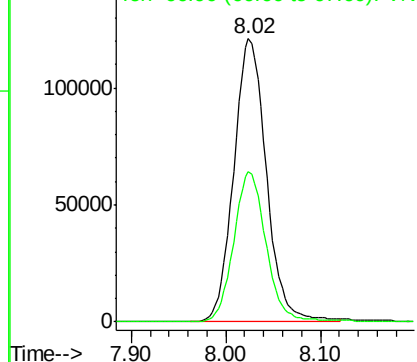
Ion Ratio Lower Upper

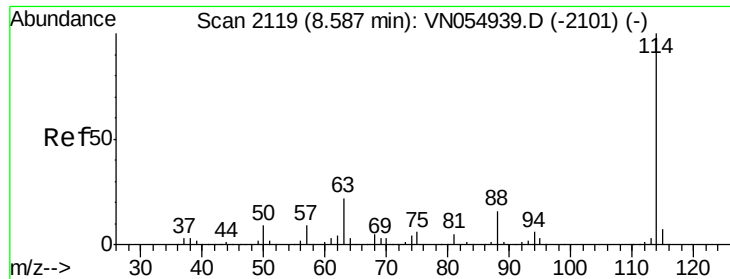
65 100

67 52.4 0.0 105.6



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: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

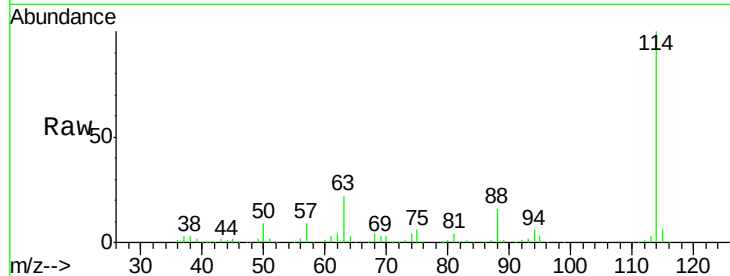
Tot Ion:114 Resp: 766710

Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.6

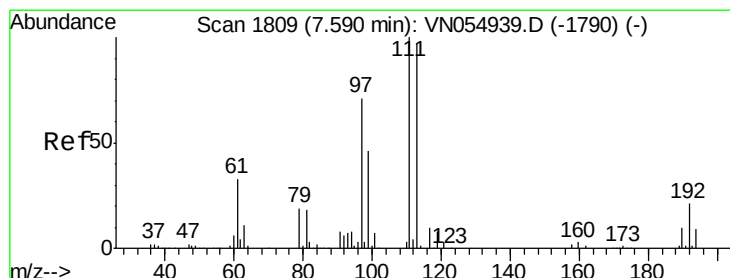
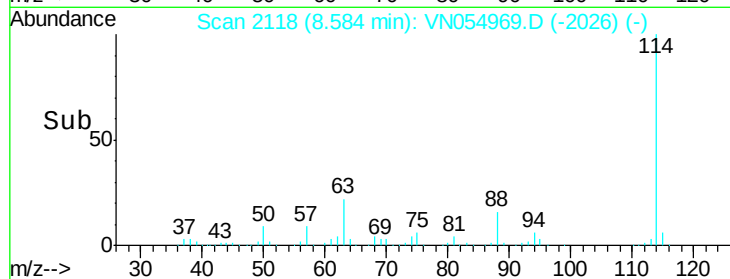
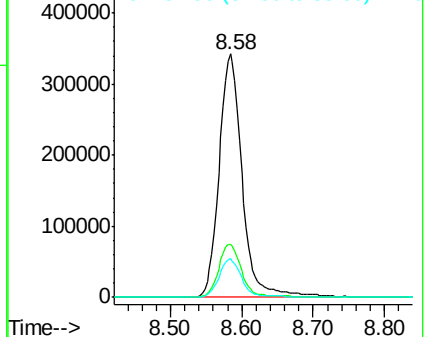
88 15.7 0.0 32.0



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: 48.962 ug/l

RT: 7.59 min Scan# 1808

Delta R.T. -0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

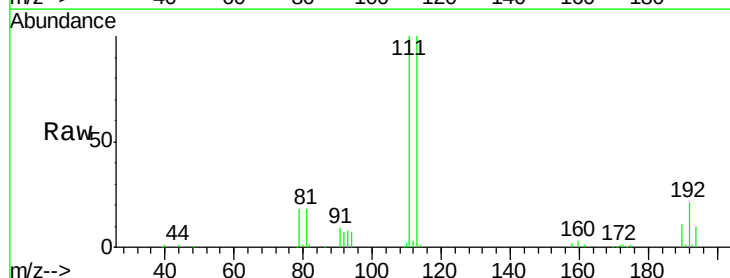
Tgt Ion:113 Resp: 244368

Ion Ratio Lower Upper

113 100

111 100.3 81.0 121.4

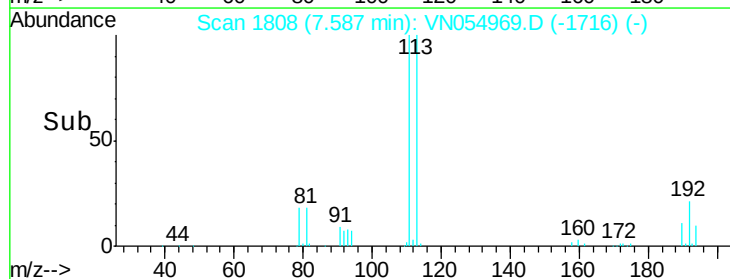
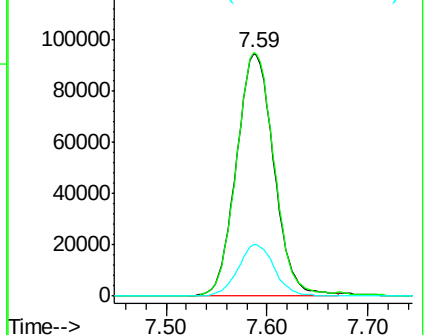
192 20.7 16.5 24.7

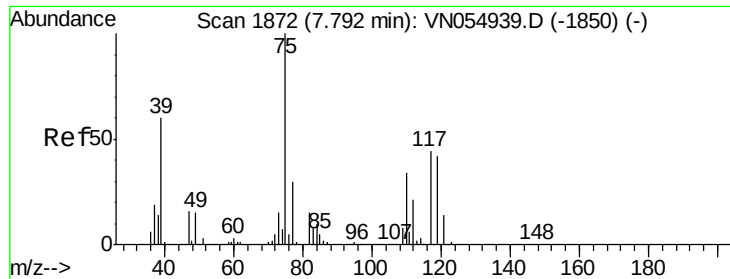


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.590 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :
MSVOA_N
ClientSampleId :

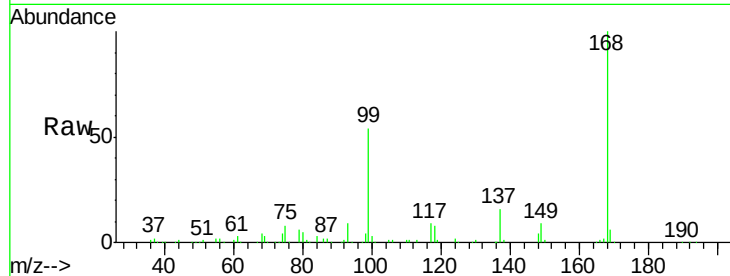
Tot Ion: 75 Resp: 34869

Ion Ratio Lower Upper

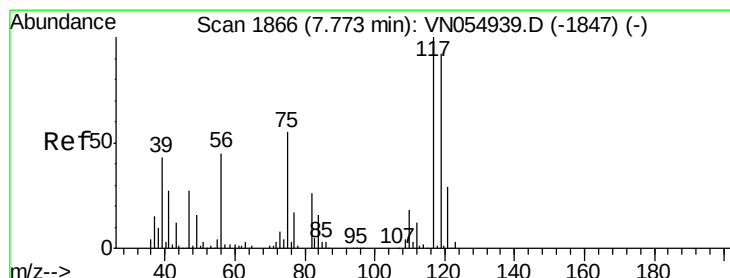
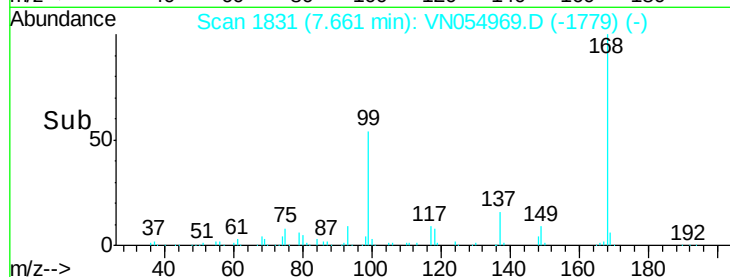
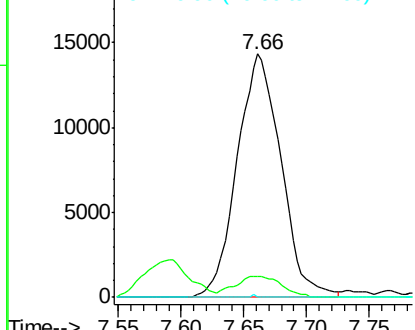
75 100

110 9.3 17.0 50.9#

77 0.1 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 6.025 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

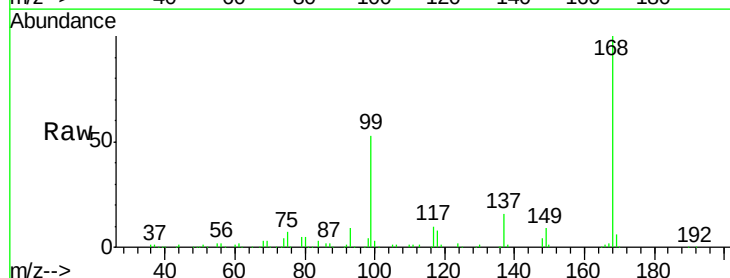
Tgt Ion: 117 Resp: 44204

Ion Ratio Lower Upper

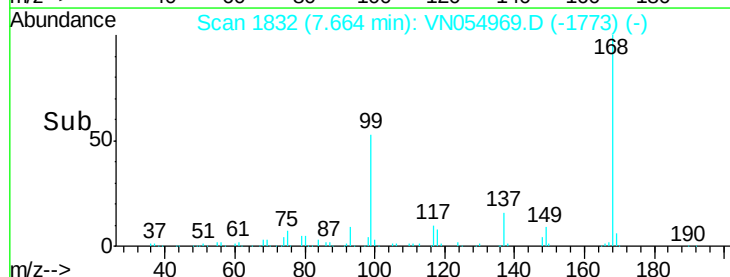
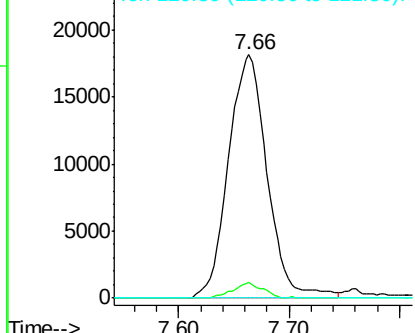
117 100

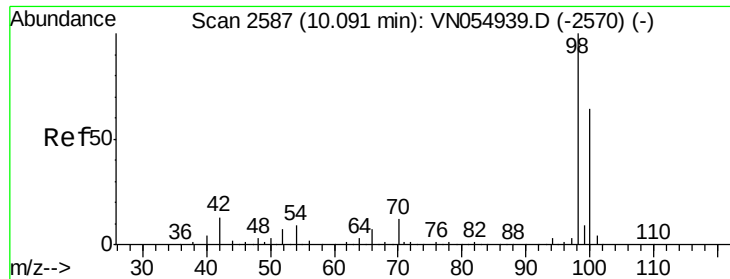
119 6.4 73.6 110.4#

121 0.0 23.4 35.0#



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

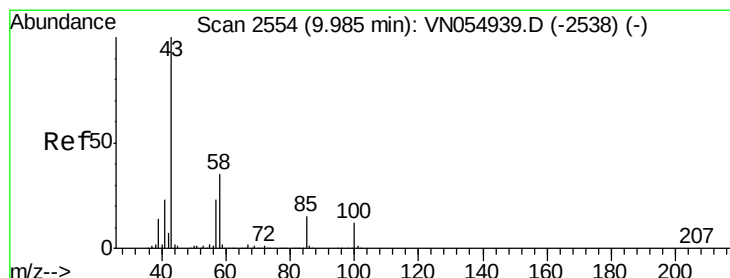
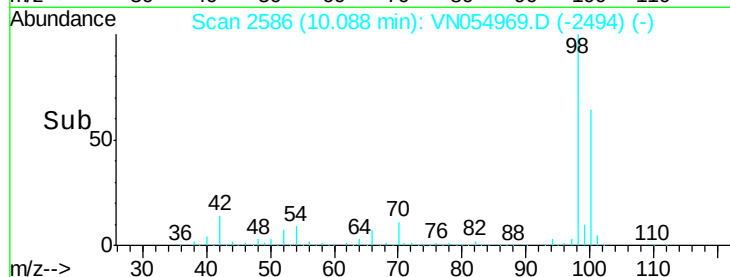
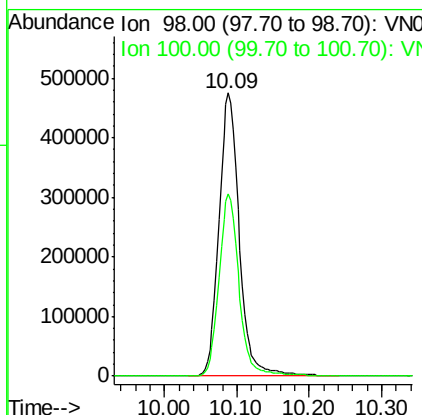
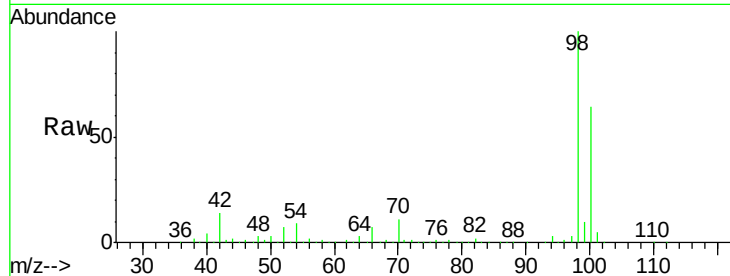




#50
Toluene-d8
Concen: 48.783 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054969.D
Acq: 5 Apr 2019 14:01

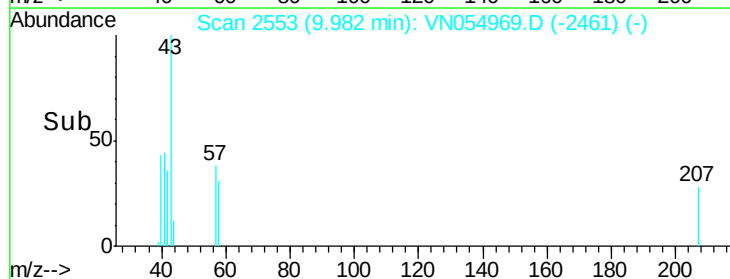
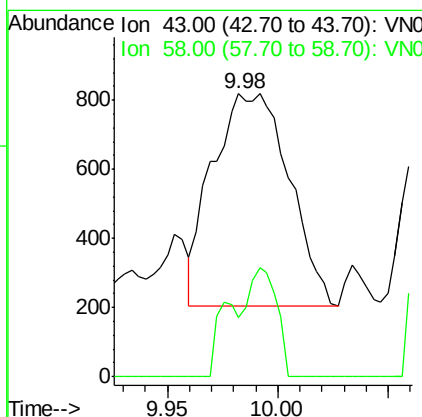
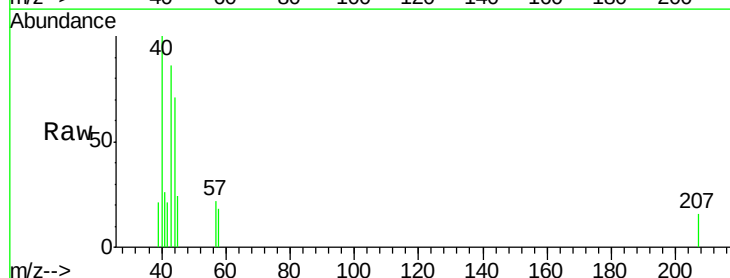
Instrument :
MSVOA_N
ClientSampled :

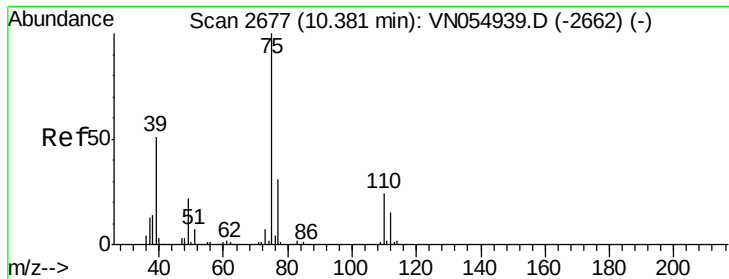
Tot Ion: 98 Resp: 923825
Ion Ratio Lower Upper
98 100
100 63.5 51.5 77.3



#51
4-Methyl-2-Pentanone
Concen: 0.301 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN054969.D
Acq: 5 Apr 2019 14:01

Tgt Ion: 43 Resp: 1474
Ion Ratio Lower Upper
43 100
58 19.8 28.3 42.5#





#53

t-1,3-Dichloropropene

Concen: 2.041 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

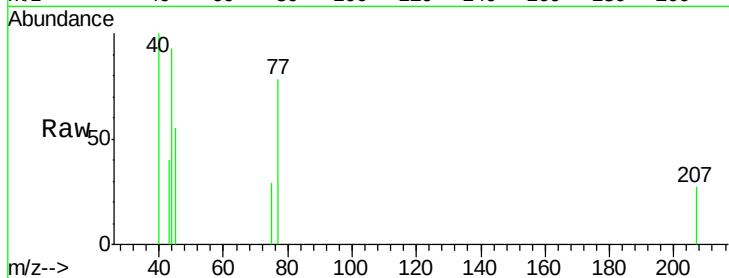
ClientSampled :

Tot Ion: 75 Resp: 110

Ion Ratio Lower Upper

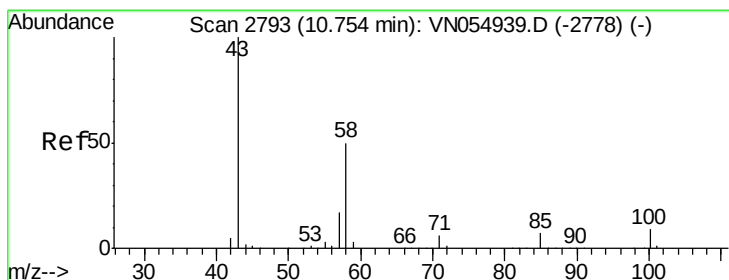
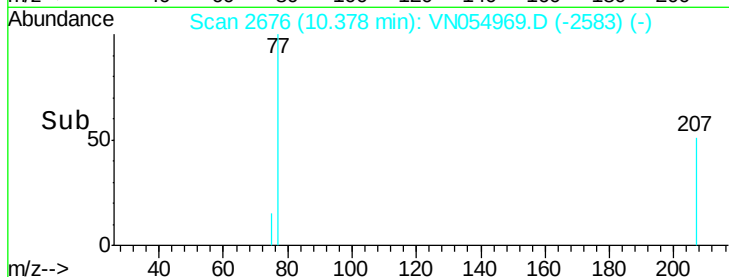
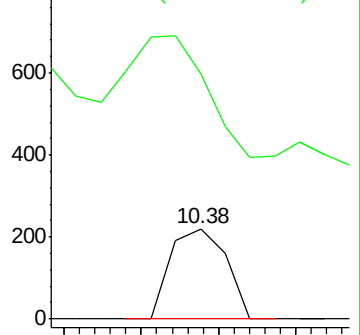
75 100

77 90.5 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#59

2-Hexanone

Concen: 0.533 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN054969.D

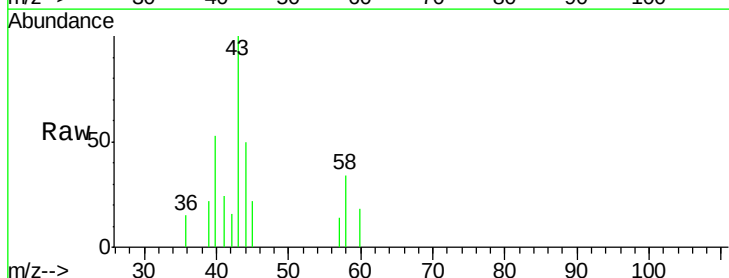
Acq: 5 Apr 2019 14:01

Tgt Ion: 43 Resp: 1632

Ion Ratio Lower Upper

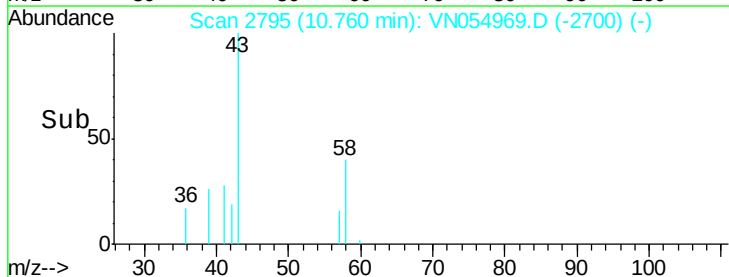
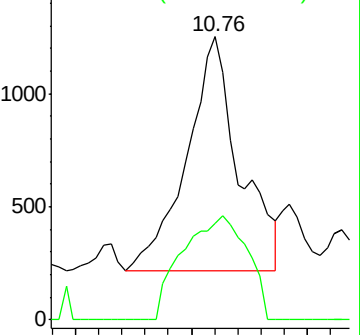
43 100

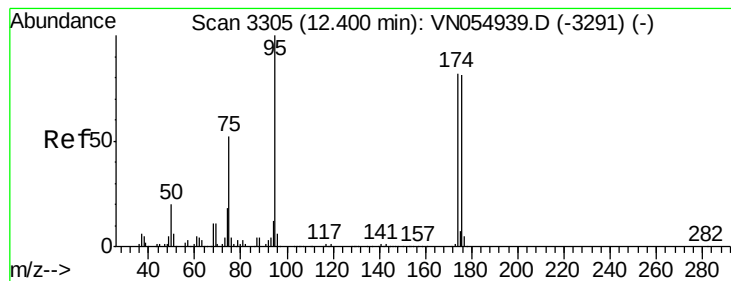
58 54.6 24.6 73.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 43.421 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

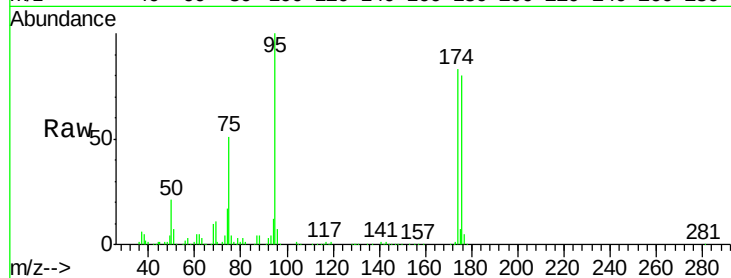
Tot Ion: 95 Resp: 274416

Ion Ratio Lower Upper

95 100

174 83.4 0.0 166.2

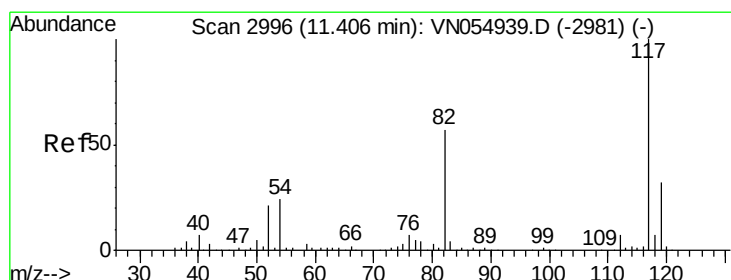
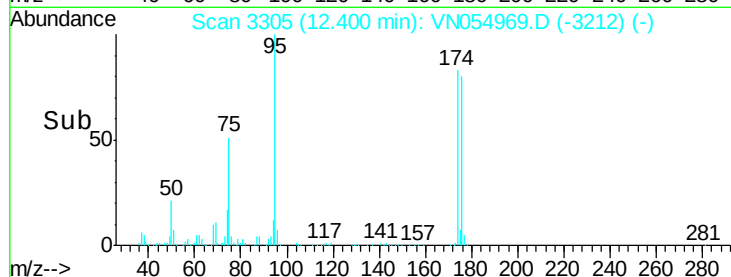
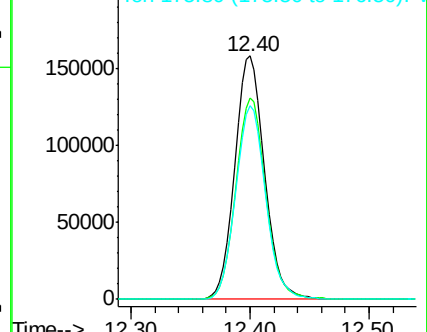
176 80.2 0.0 163.2



Abundance Ion 94.90 (94.60 to 95.60): VN054939.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN054939.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054939.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

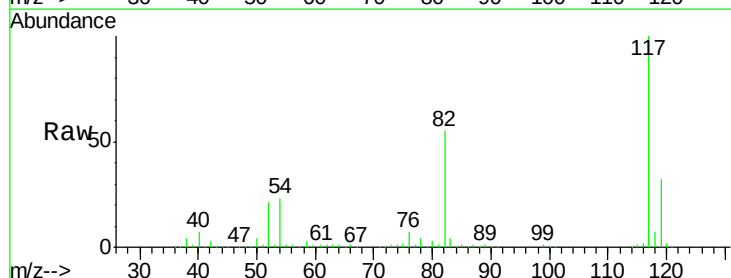
Tgt Ion: 117 Resp: 647603

Ion Ratio Lower Upper

117 100

82 55.2 45.3 67.9

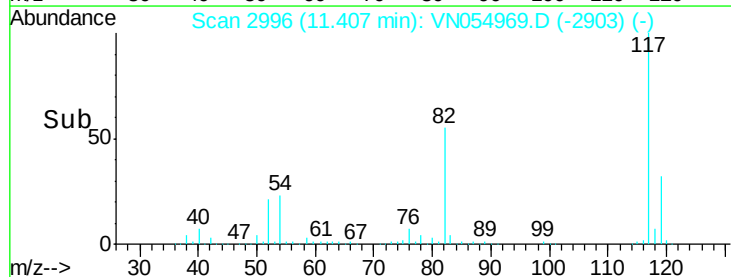
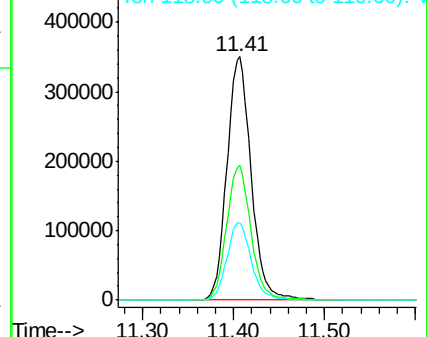
119 32.0 25.8 38.6

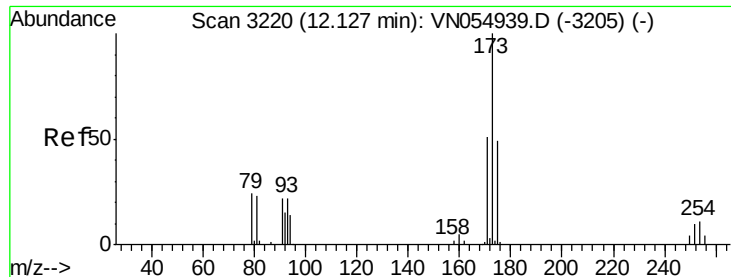


Abundance Ion 116.90 (116.60 to 117.60): VN054939.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN054939.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054939.D (-2981) (-)





#71

Bromoform

Concen: 0.257 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

ClientSampled :

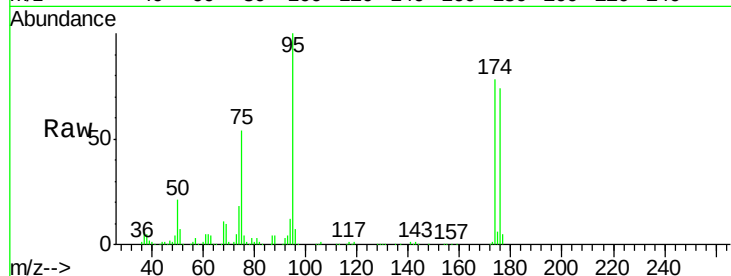
Tot Ion:173 Resp: 746

Ion Ratio Lower Upper

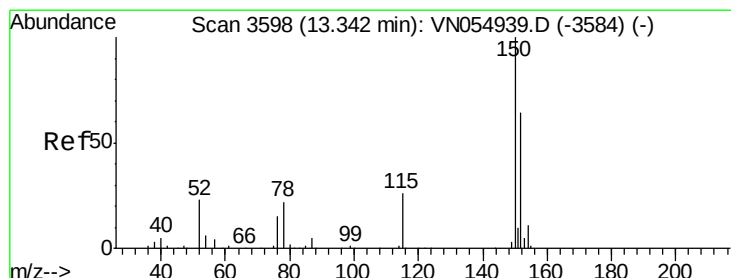
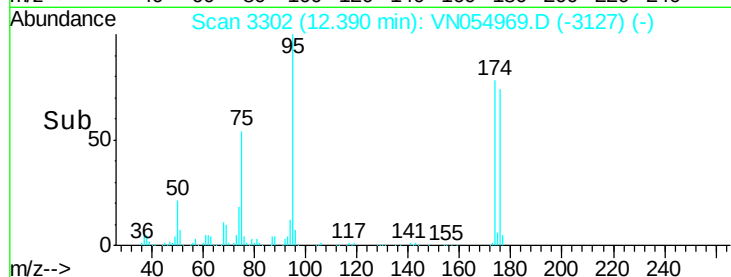
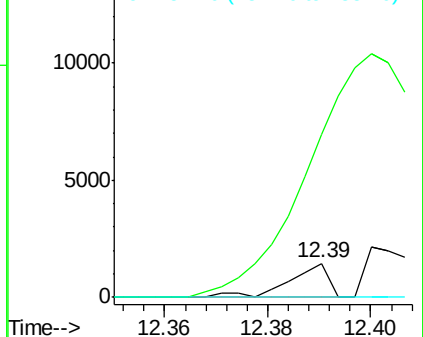
173 100

175 0.0 24.1 72.4#

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# 3598

Delta R.T. 0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

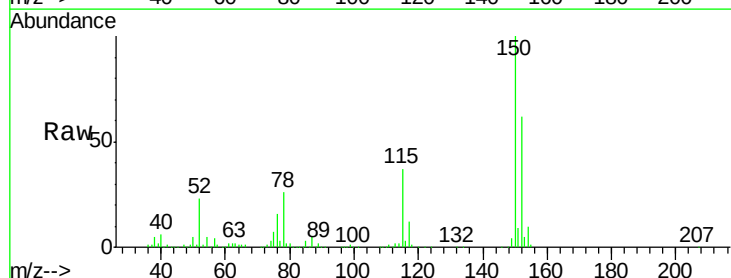
Tgt Ion:152 Resp: 204371

Ion Ratio Lower Upper

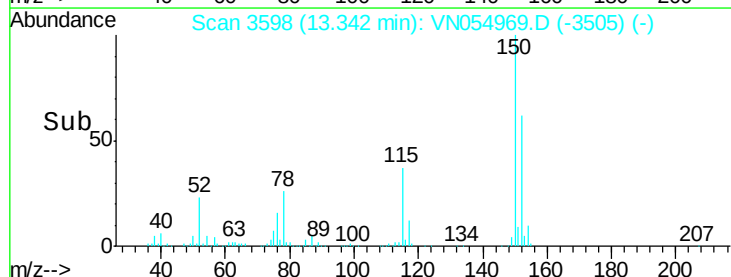
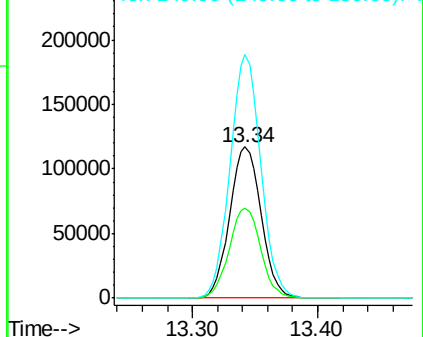
152 100

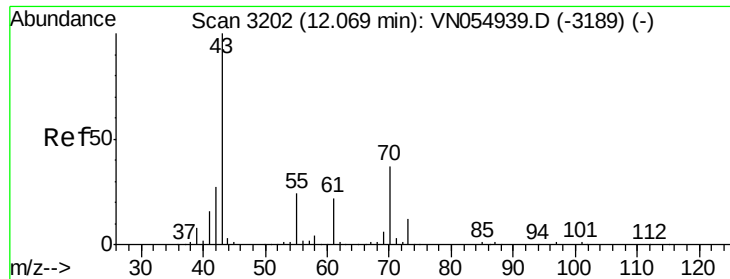
115 59.6 28.9 86.8

150 156.7 0.0 345.4



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: 0.296 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 1419

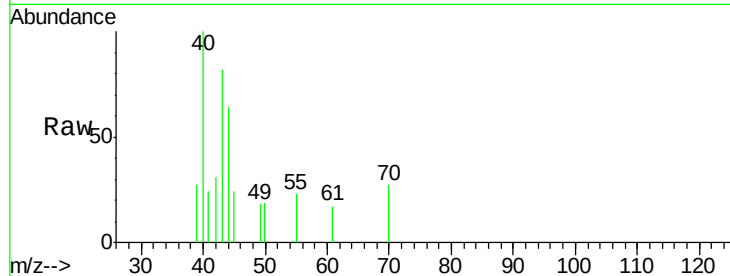
Ion Ratio Lower Upper

43 100

70 12.5 29.3 43.9#

55 8.0 19.2 28.8#

61 6.6 17.4 26.2#

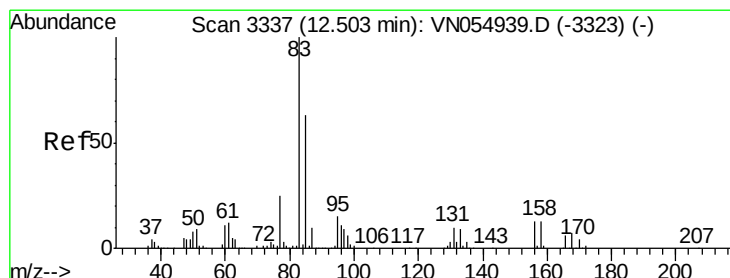
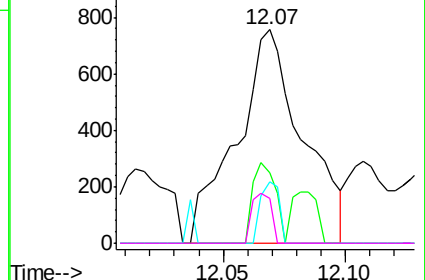
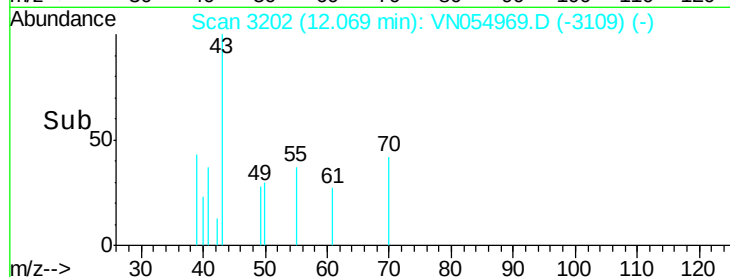


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

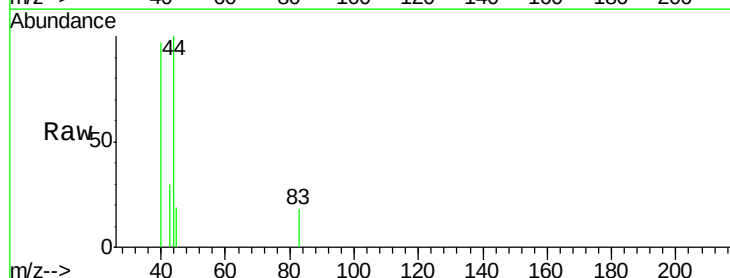
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

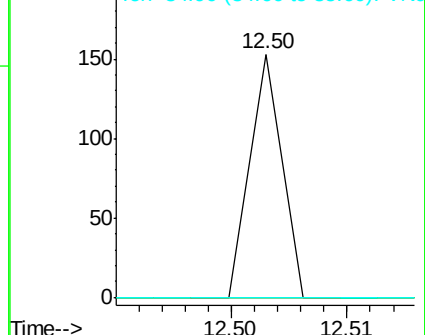
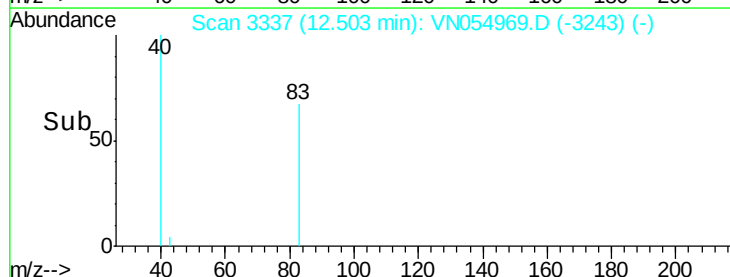
85 0.0 31.4 94.0#

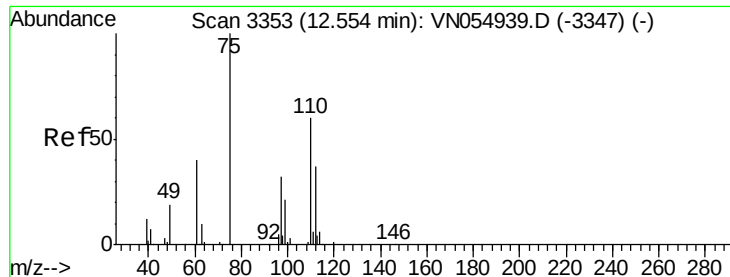


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 44.964 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

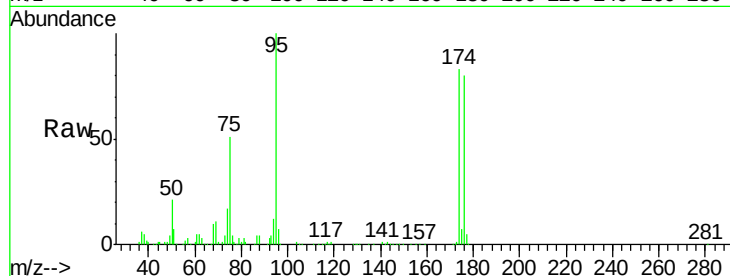
ClientSampleId :

Tot Ion: 75 Resp: 142601

Ion Ratio Lower Upper

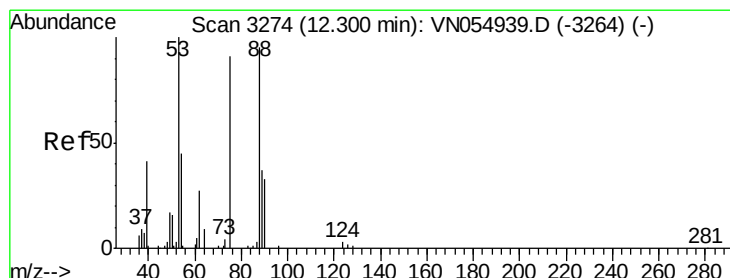
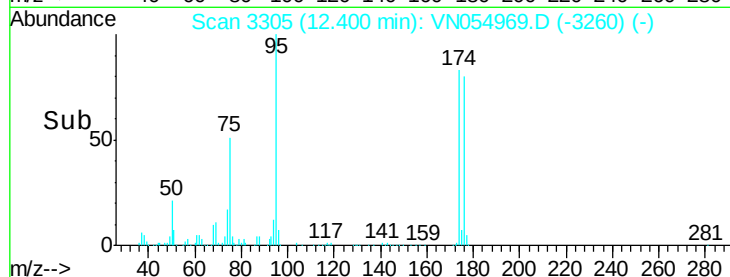
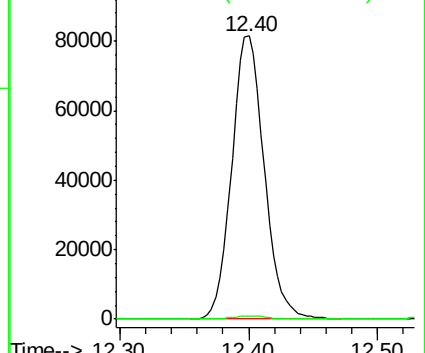
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 161.175 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

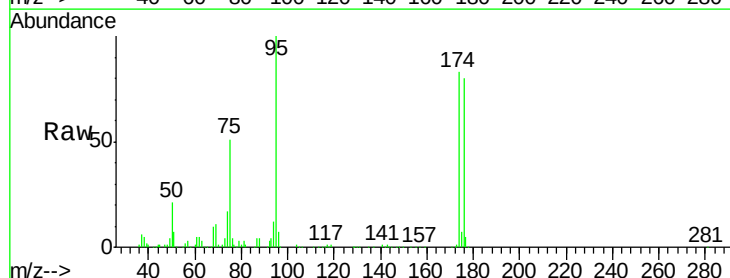
Tgt Ion: 75 Resp: 142601

Ion Ratio Lower Upper

75 100

53 0.0 92.8 139.2#

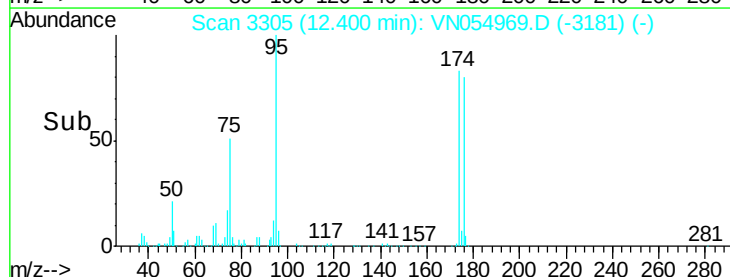
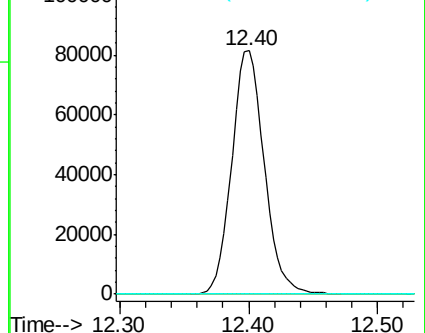
89 0.0 36.7 55.1#

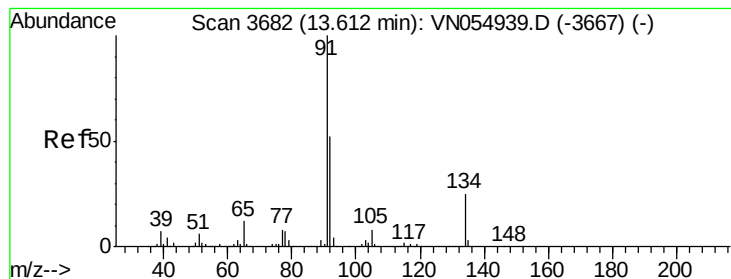


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#89

n-Butylbenzene

Concen: 0.200 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.01 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

Instrument :

MSVOA_N

ClientSampleId :

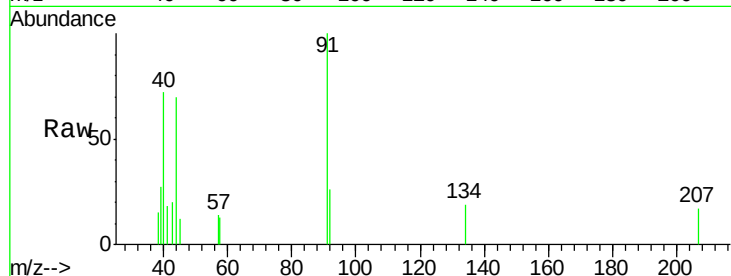
Tot Ion: 91 Resp: 2151

Ion Ratio Lower Upper

91 100

92 28.5 26.1 78.2

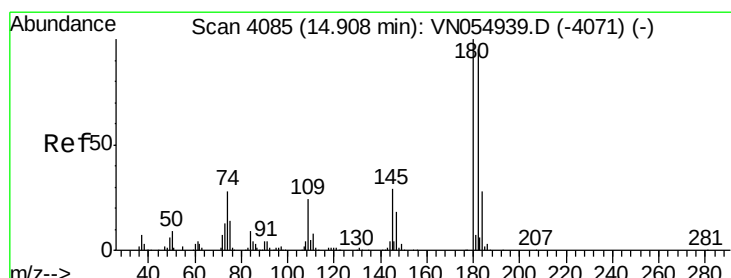
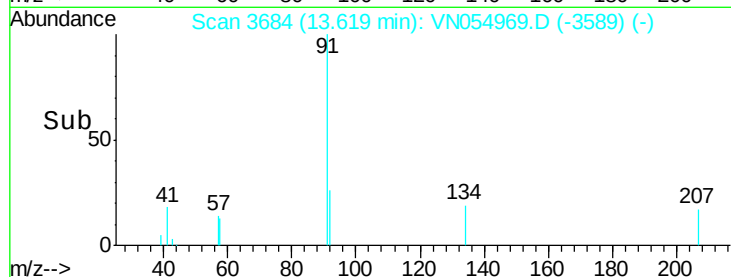
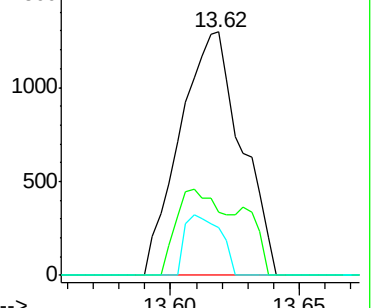
134 14.5 12.6 37.8



Abundance Ion 91.00 (90.70 to 91.70): VN054939.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN054939.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN054939.D (-3667) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.743 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN054969.D

Acq: 5 Apr 2019 14:01

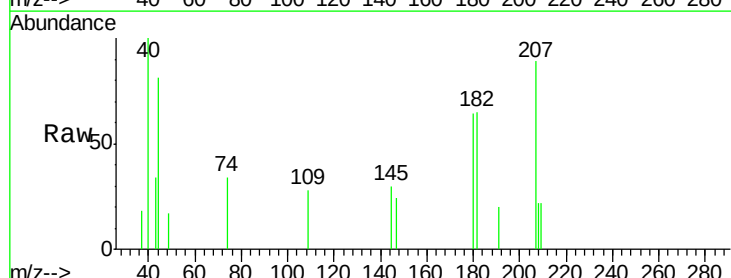
Tgt Ion: 180 Resp: 1086

Ion Ratio Lower Upper

180 100

182 101.6 47.5 142.6

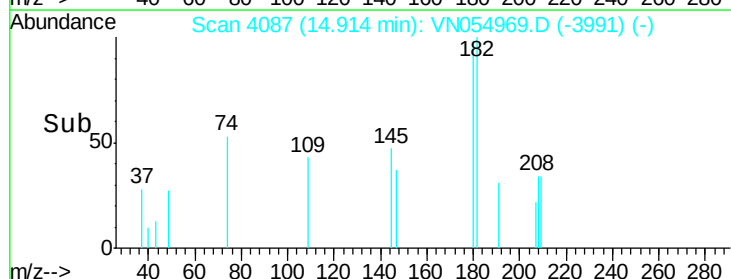
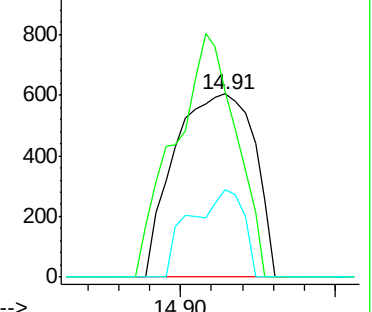
145 31.3 14.6 43.8

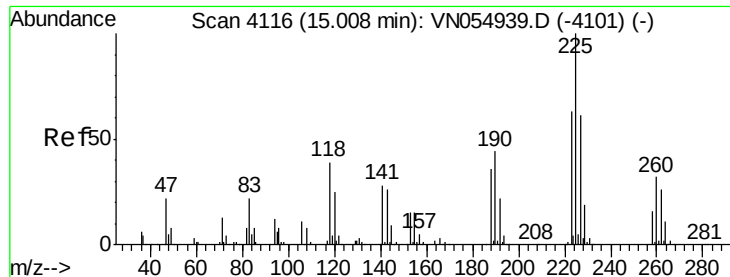


Abundance Ion 179.80 (179.50 to 180.50): VN054939.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN054939.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN054939.D (-4071) (-)





#94

Hexachlorobutadiene

Concen: 0.642 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN054969.D

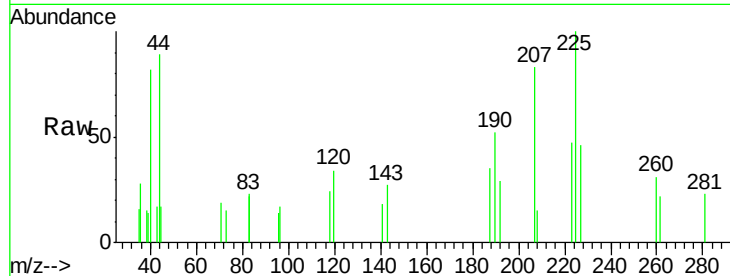
Acq: 5 Apr 2019 14:01

Instrument :

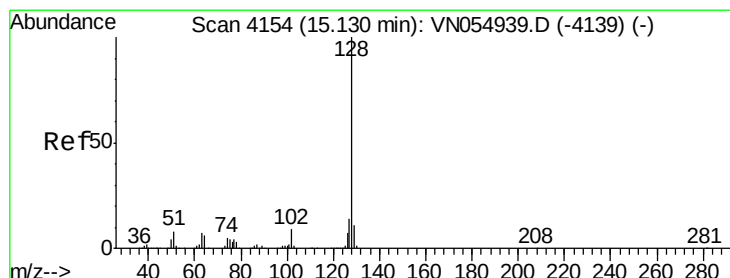
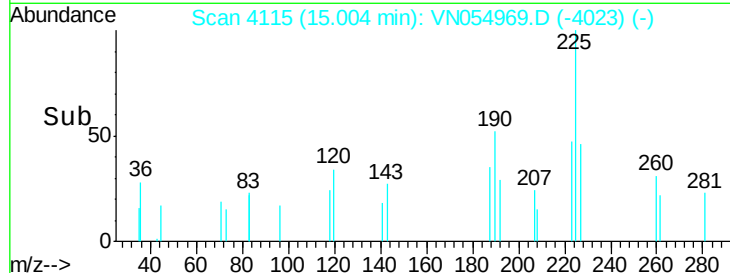
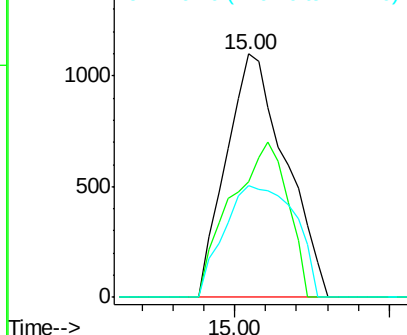
MSVOA_N

ClientSampled :

Tot Ion:	225	Resp:	1466
Ion	Ratio	Lower	Upper
225	100		
223	60.8	31.1	93.5
227	54.7	30.9	92.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.213 ug/l

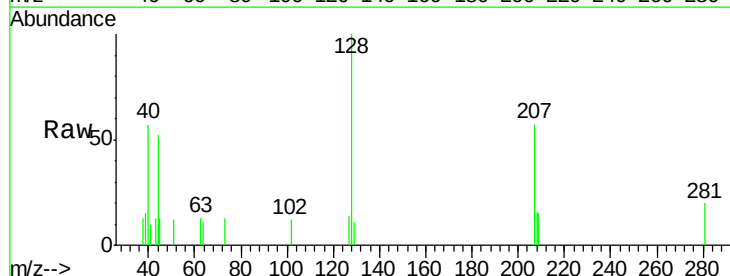
RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

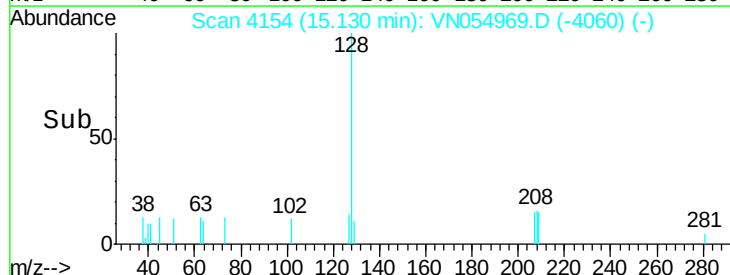
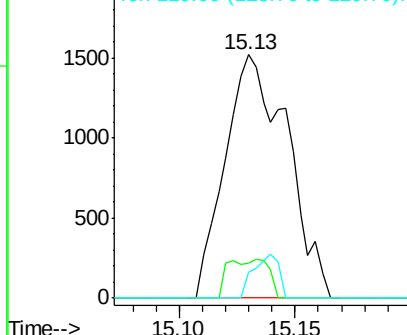
Lab File: VN054969.D

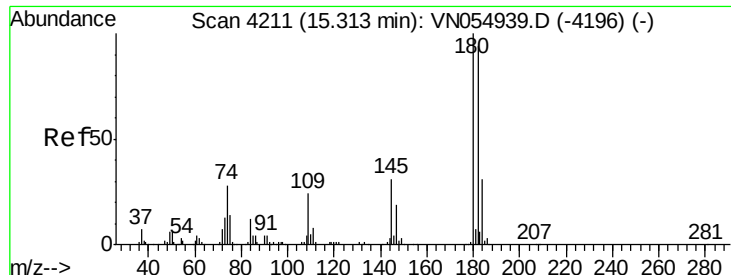
Acq: 5 Apr 2019 14:01

Tgt Ion:	128	Resp:	2828
Ion	Ratio	Lower	Upper
128	100		
127	4.6	10.6	16.0#
129	7.4	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

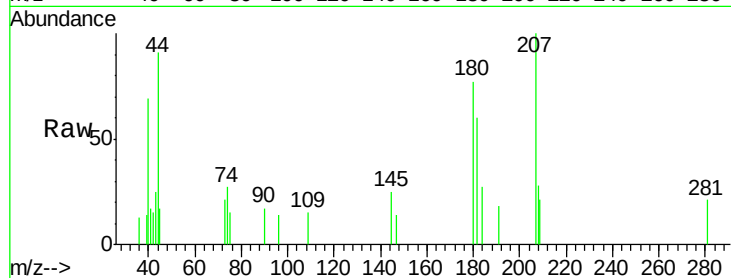




#96
 1,2,3-Trichlorobenzene
 Concen: 0.476 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.01 min
 Lab File: VN054969.D
 Acq: 5 Apr 2019 14:01

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.5	142.5#
145	14.9	15.6	46.8#



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

