

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054212.D
 Acq On : 13 Mar 2019 15:14
 Operator : JC/SP
 Sample : K1842-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 05:17:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1419587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2319761	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2444862	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1019660	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	752334	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
35) Dibromofluoromethane	7.59	113	712850	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	
50) Toluene-d8	10.09	98	2893094	52.36	ug/l	0.00
Spiked Amount			Recovery	=	104.72%	
62) 4-Bromofluorobenzene	12.40	95	1101627	56.98	ug/l	0.00
Spiked Amount			Recovery	=	113.96%	

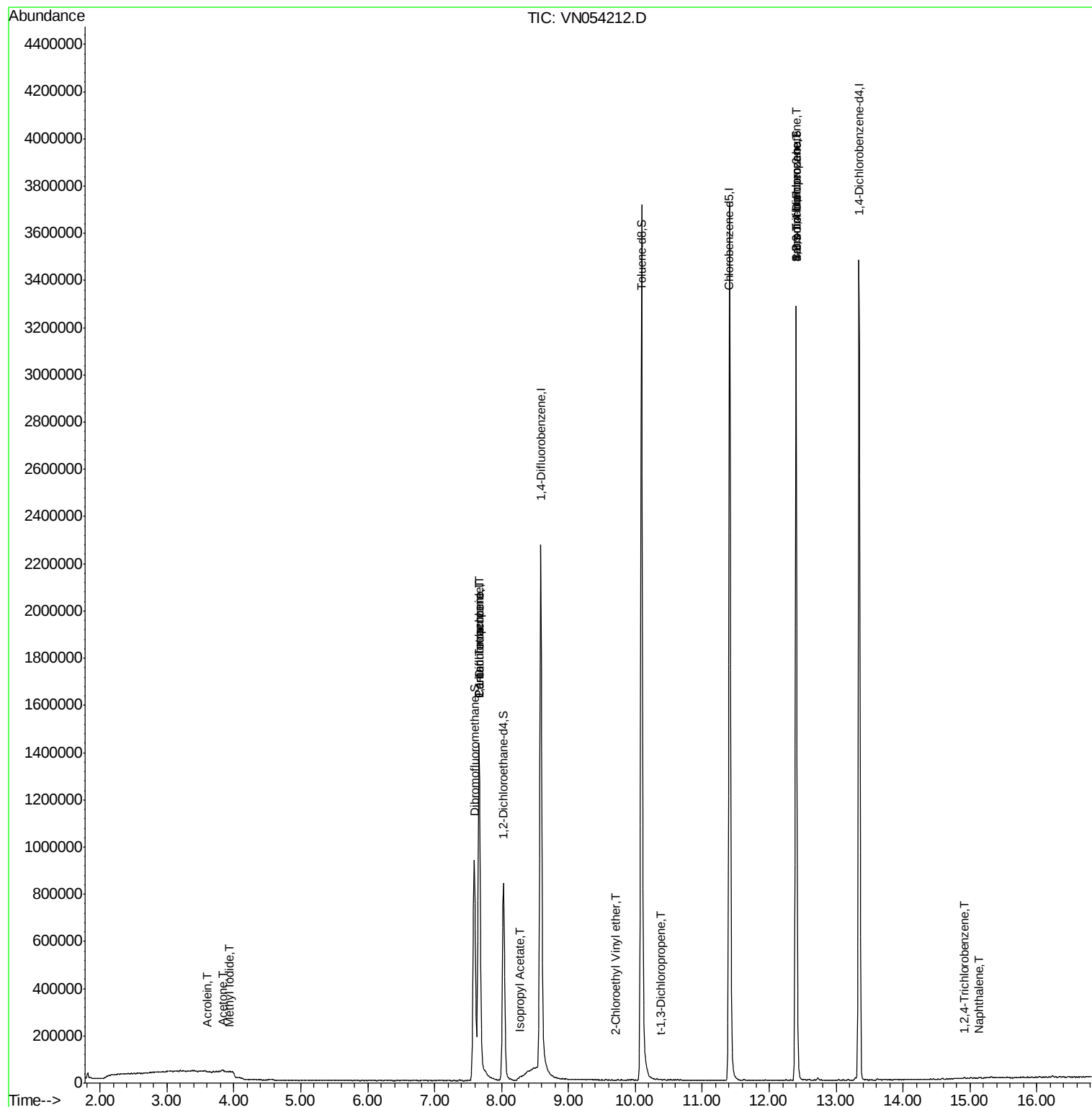
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	247	1.508	ug/l #	62
13) Acrolein	3.60	56	413	0.422	ug/l	99
16) Acetone	3.82	43	10702	2.479	ug/l	93
31) Cyclohexane	7.66	56	21952	Below Cal	#	5
36) 1,1-Dichloropropene	7.66	75	82695	3.871	ug/l #	48
38) Carbon Tetrachloride	7.67	117	114160	5.096	ug/l #	16
43) Isopropyl Acetate	8.27	43	9866	0.458	ug/l #	60
53) t-1,3-Dichloropropene	10.38	75	368	2.001	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.71	63	108	16.842	ug/l #	44
71) Bromoform	12.41	173	7554	2.835	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	532991	35.546	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	532991	121.511	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1218	2.570	ug/l	83
95) Naphthalene	15.13	128	2801	3.528	ug/l #	80

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

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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

Instrument :

MSVOA_N

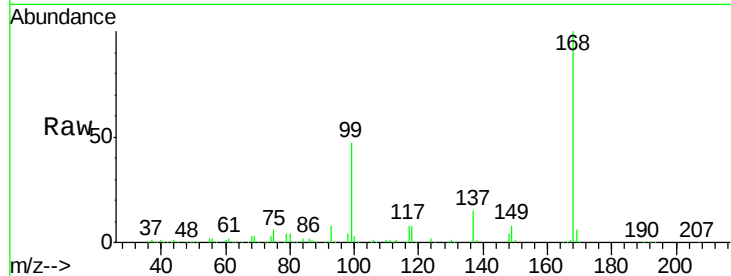
ClientSampleId :

Tot Ion:168 Resp: 1419587

Ion Ratio Lower Upper

168 100

99 47.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

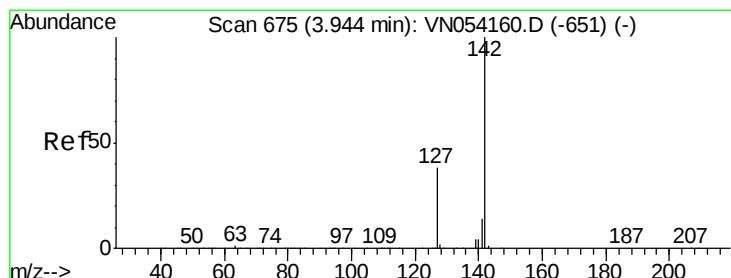
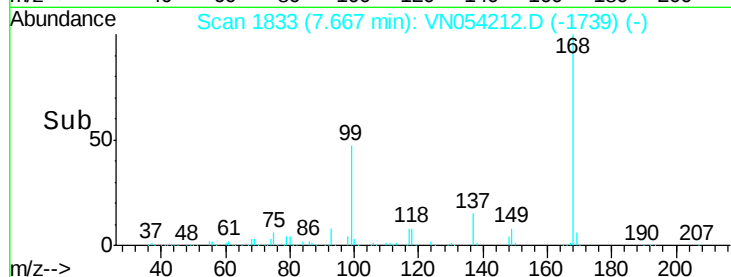
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.508 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

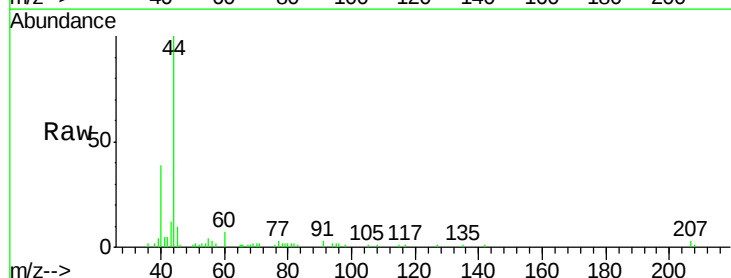
Tgt Ion:142 Resp: 247

Ion Ratio Lower Upper

142 100

127 49.4 30.3 45.5#

141 50.2 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.94

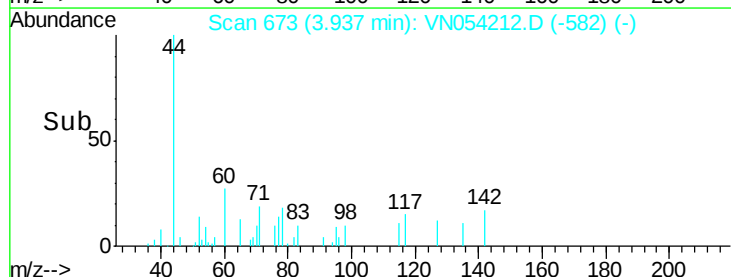
300

200

100

0

Time--> 3.92 3.93 3.94 3.95 3.96





#13

Acrolein

Concen: 0.422 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

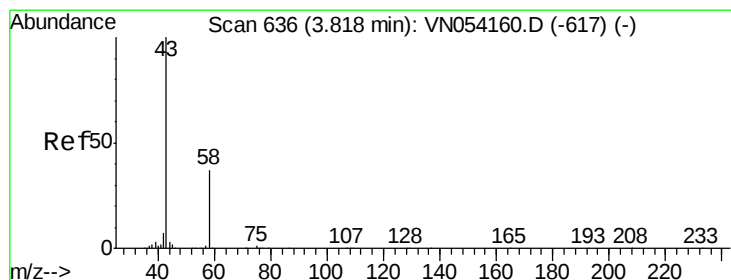
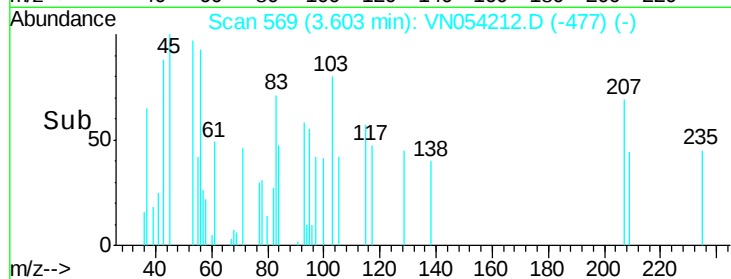
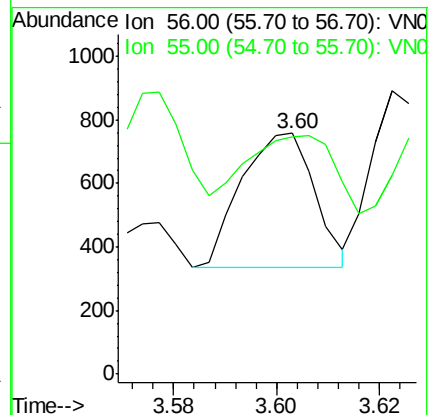
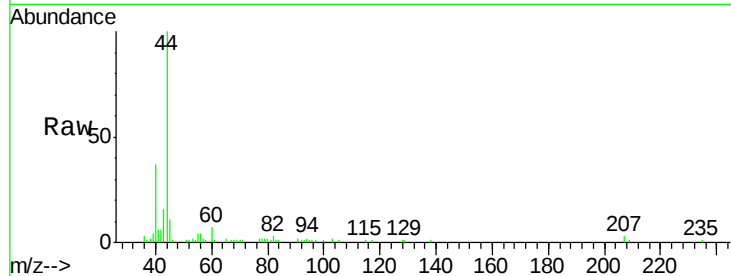
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 413

Ion Ratio Lower Upper

56 100

55 69.7 56.7 85.1



#16

Acetone

Concen: 2.479 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054212.D

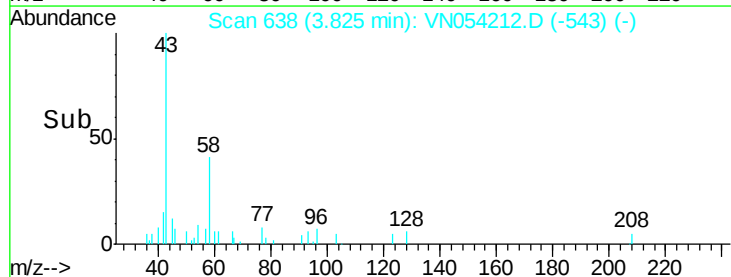
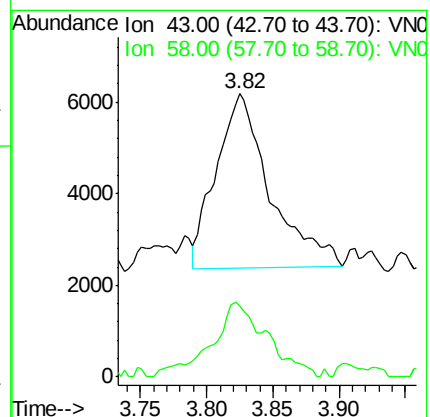
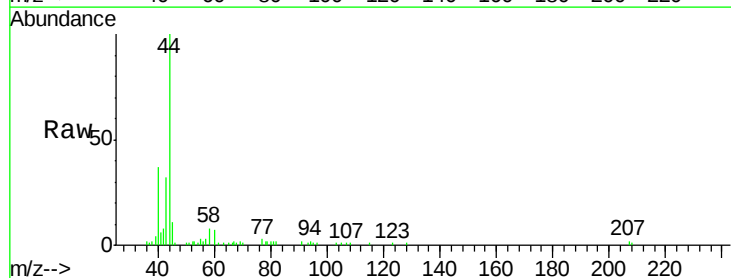
Acq: 13 Mar 2019 15:14

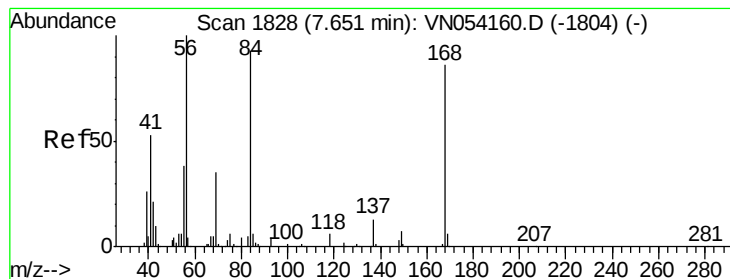
Tgt Ion: 43 Resp: 10702

Ion Ratio Lower Upper

43 100

58 33.4 29.9 44.9





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

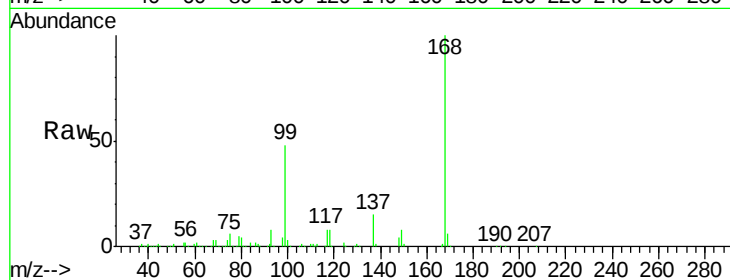
Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

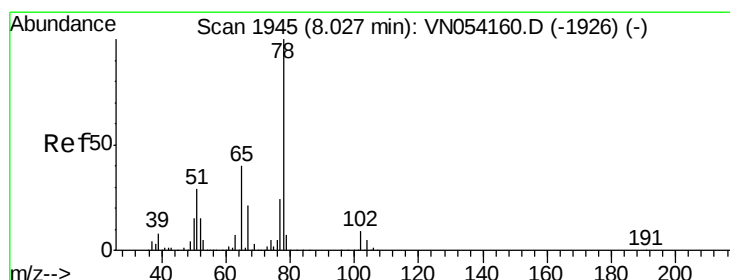
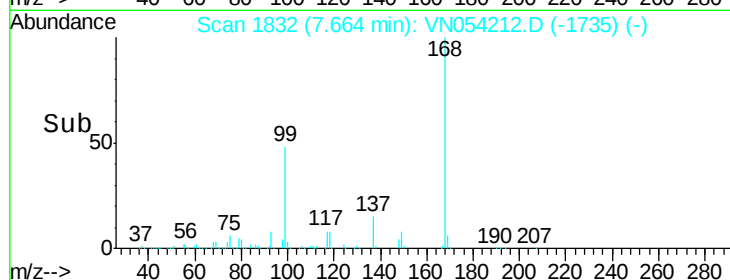
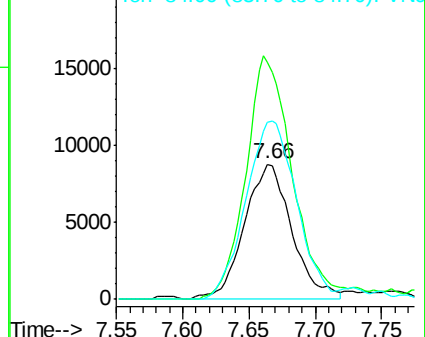
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 21952

Ion	Ratio	Lower	Upper
56	100		
69	176.4	27.8	41.6#
84	131.1	74.6	111.8#



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: 49.903 ug/l

RT: 8.03 min Scan# 1945

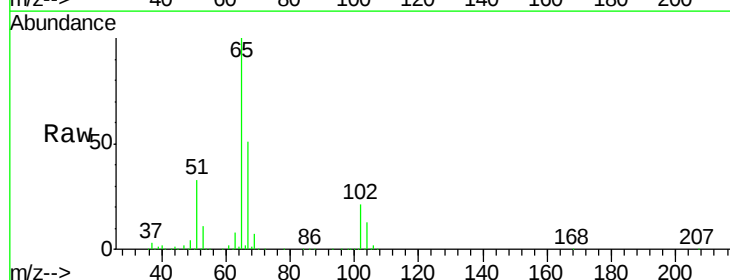
Delta R.T. 0.00 min

Lab File: VN054212.D

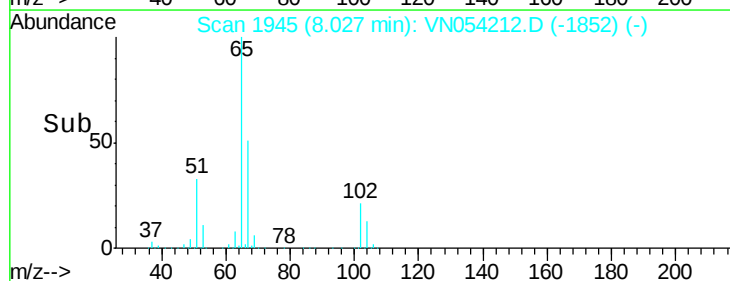
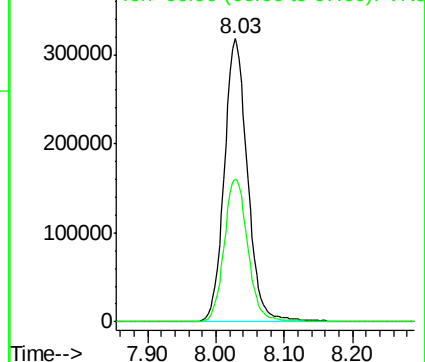
Acq: 13 Mar 2019 15:14

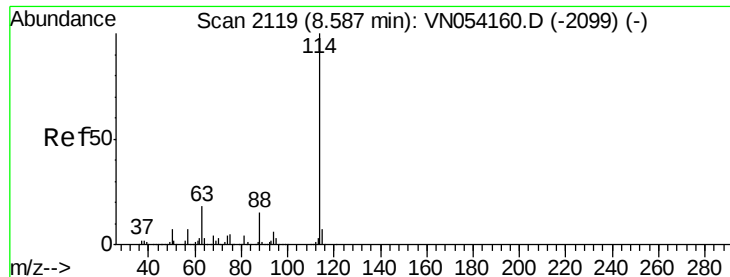
Tgt Ion: 65 Resp: 752334

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	104.6



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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

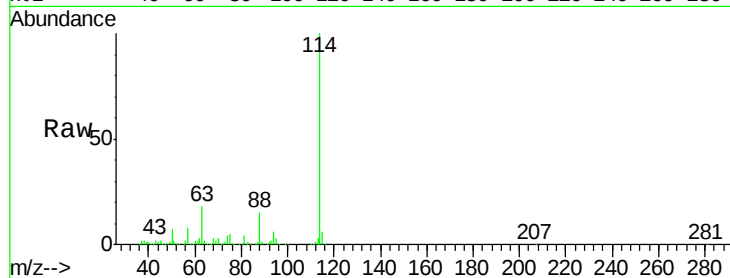
Tot Ion:114 Resp: 2319761

Ion Ratio Lower Upper

114 100

63 17.9 0.0 35.2

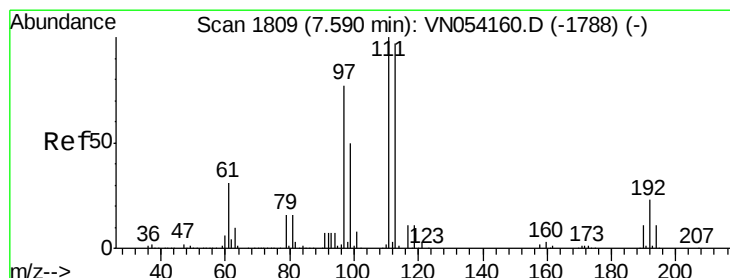
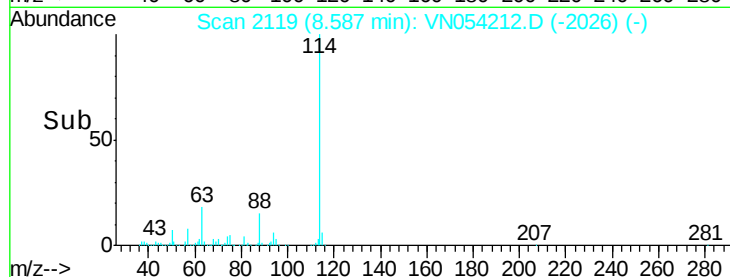
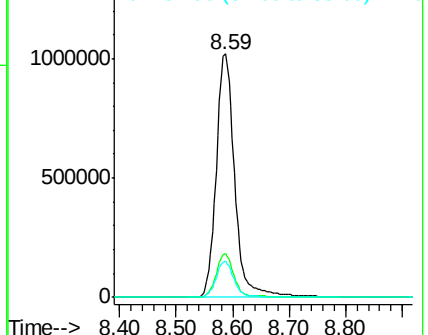
88 14.7 0.0 30.2



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: 47.646 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

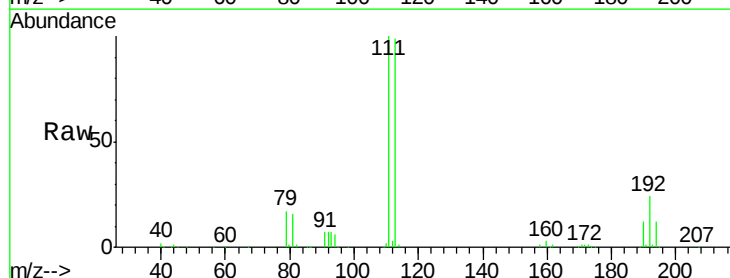
Tgt Ion:113 Resp: 712850

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

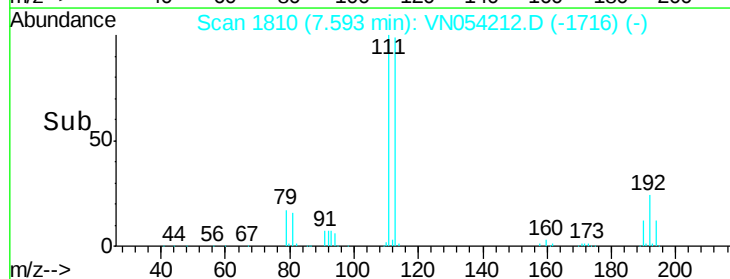
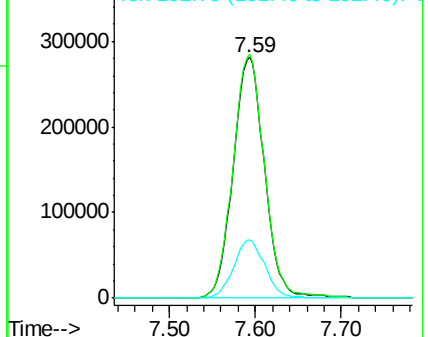
192 24.0 19.2 28.8

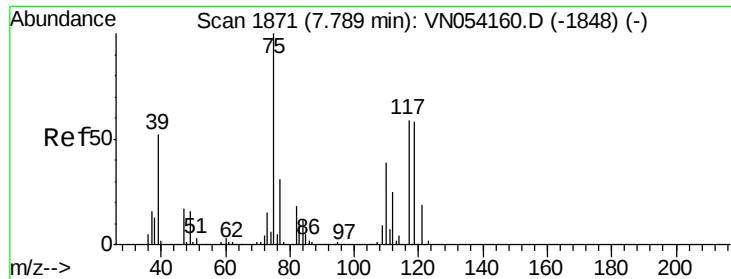


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

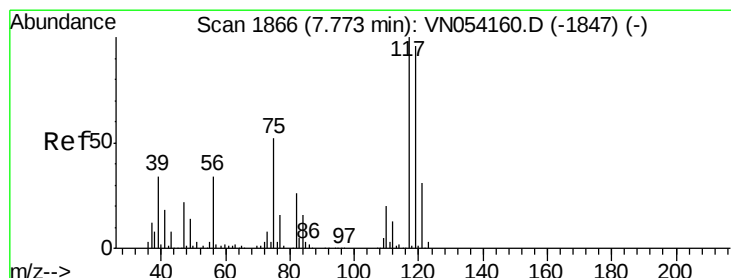
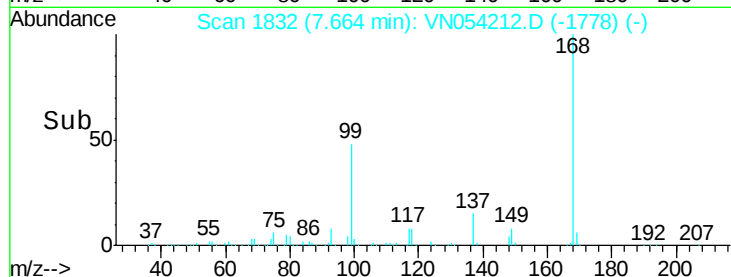
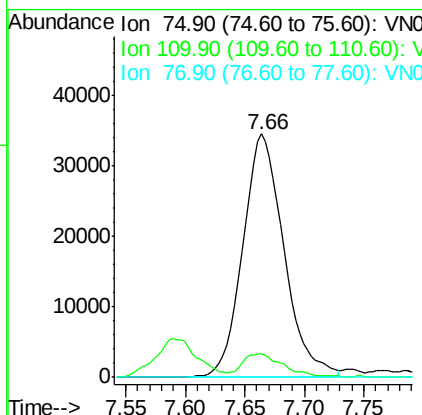
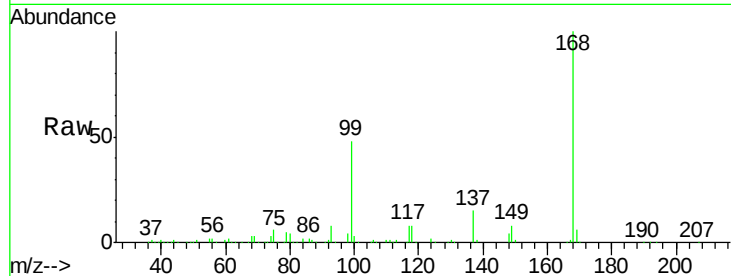




#36
 1,1-Dichloropropene
 Concen: 3.871 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054212.D
 Acq: 13 Mar 2019 15:14

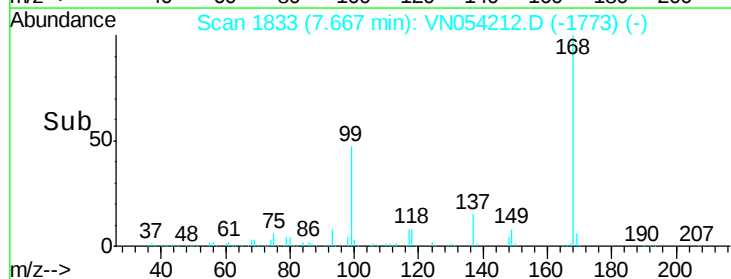
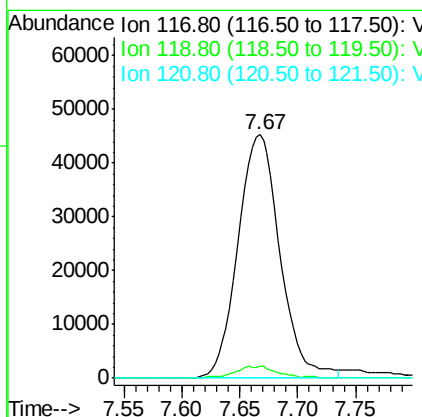
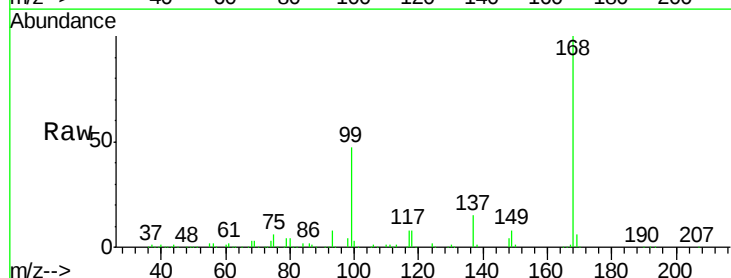
Instrument :
 MSVOA_N
 ClientSampled :

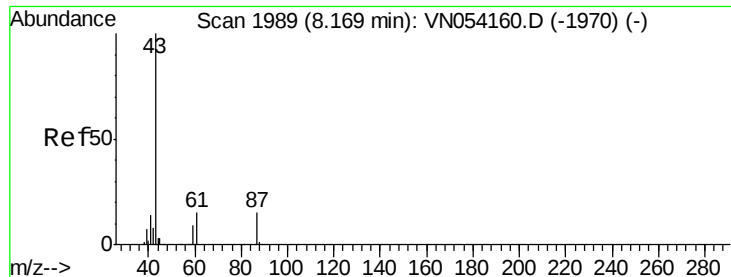
Tot Ion	75	Resp	82695
Ion Ratio	Lower	Upper	
75	100		
110	8.6	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.096 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054212.D
 Acq: 13 Mar 2019 15:14

Tgt Ion	117	Resp	114160
Ion Ratio	Lower	Upper	
117	100		
119	4.8	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 0.458 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.10 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

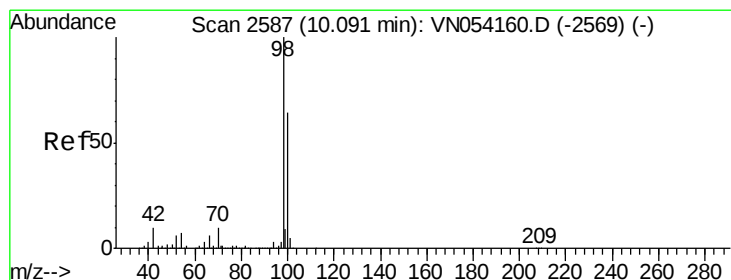
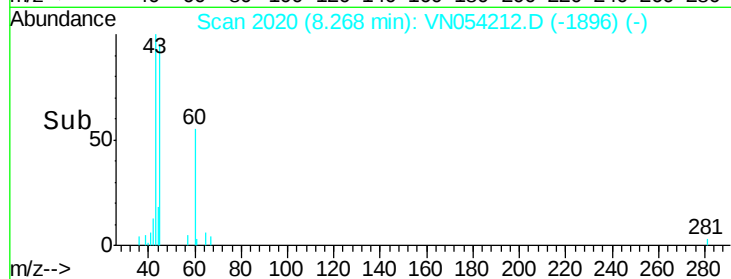
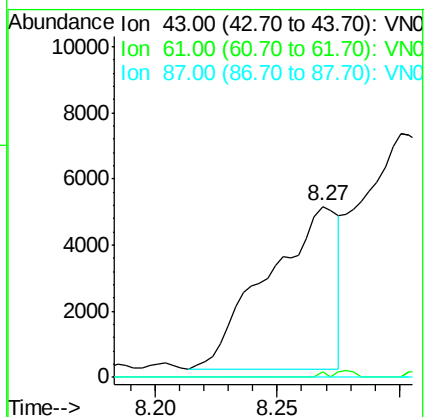
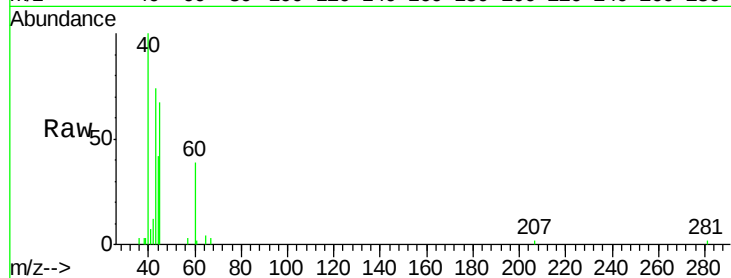
Tot Ion: 43 Resp: 9866

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#



#50

Toluene-d8

Concen: 52.359 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054212.D

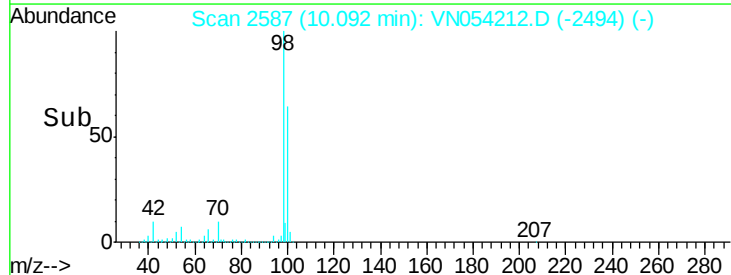
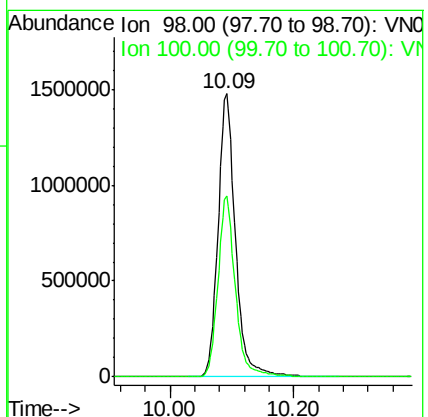
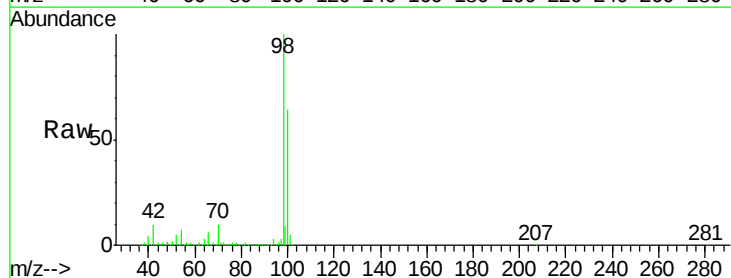
Acq: 13 Mar 2019 15:14

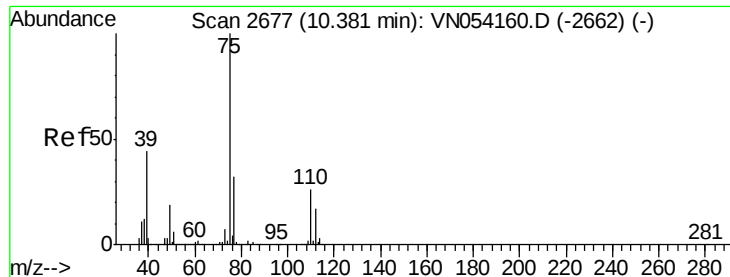
Tgt Ion: 98 Resp: 2893094

Ion Ratio Lower Upper

98 100

100 63.9 51.2 76.8





#53

t-1,3-Dichloropropene

Concen: 2.001 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

Instrument :

MSVOA_N

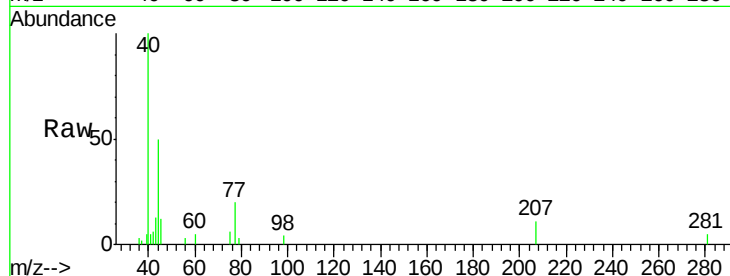
ClientSampled :

Tot Ion: 75 Resp: 368

Ion Ratio Lower Upper

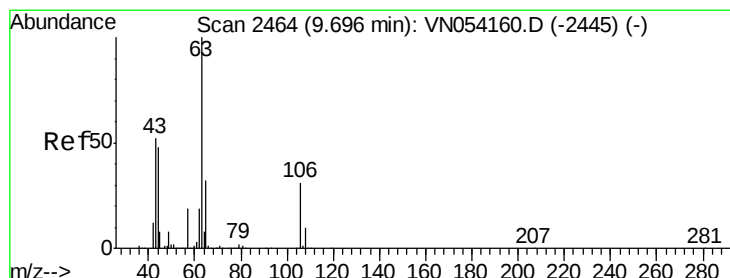
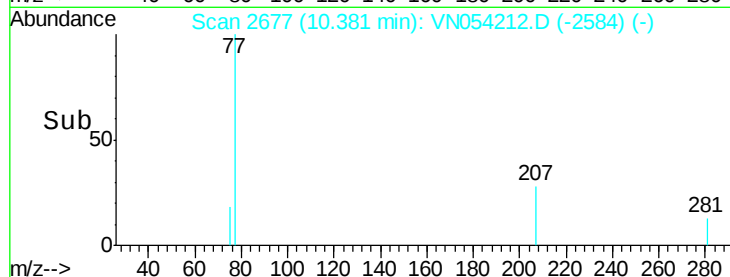
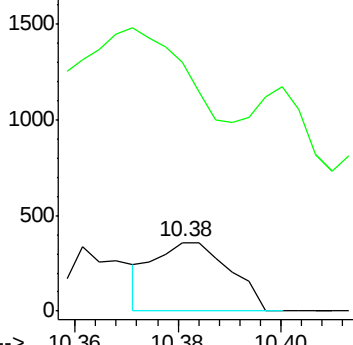
75 100

77 37.0 25.8 38.8



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 16.842 ug/l

RT: 9.71 min Scan# 2467

Delta R.T. 0.01 min

Lab File: VN054212.D

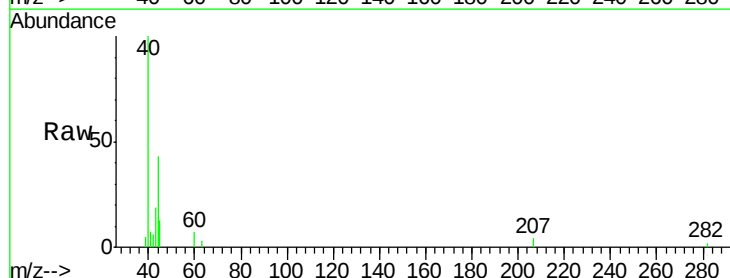
Acq: 13 Mar 2019 15:14

Tgt Ion: 63 Resp: 108

Ion Ratio Lower Upper

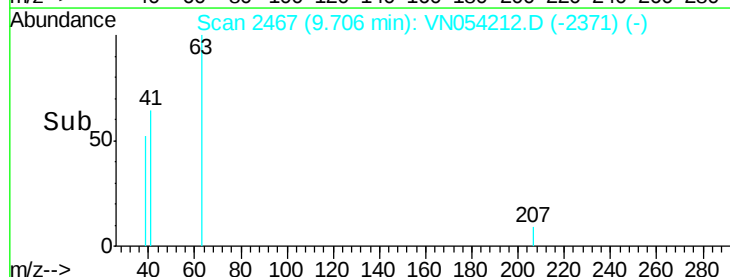
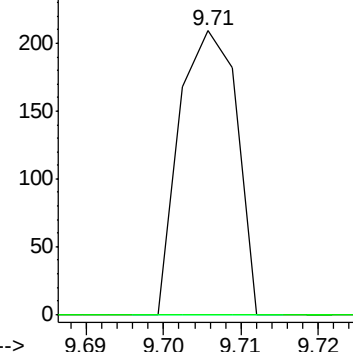
63 100

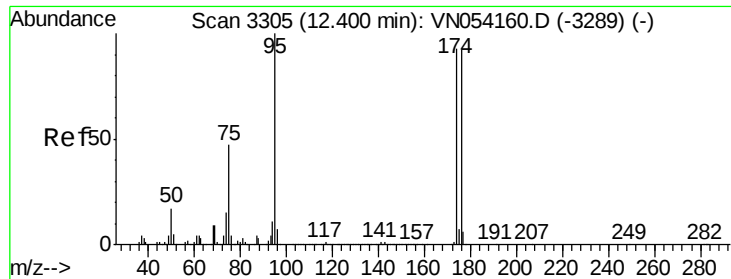
106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

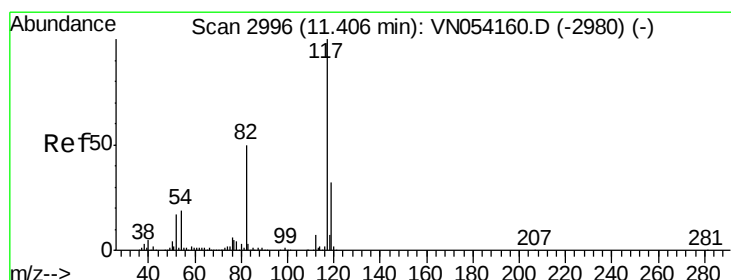
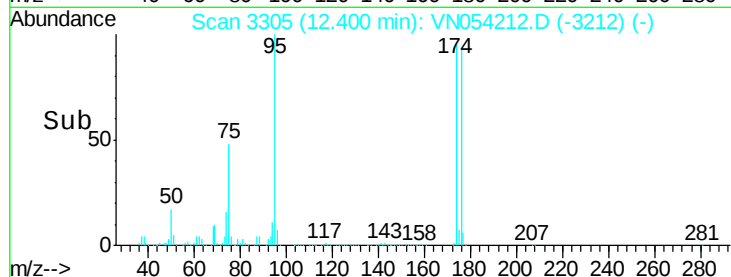
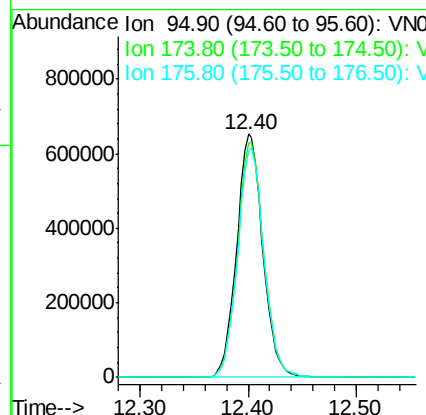
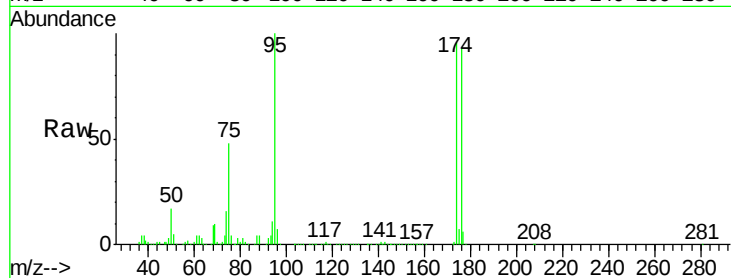




#62
4-Bromofluorobenzene
Concen: 56.979 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054212.D
Acq: 13 Mar 2019 15:14

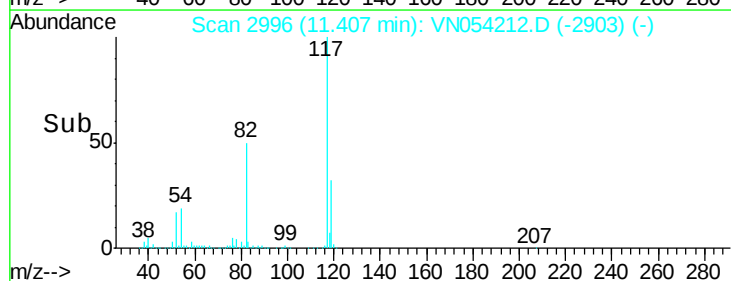
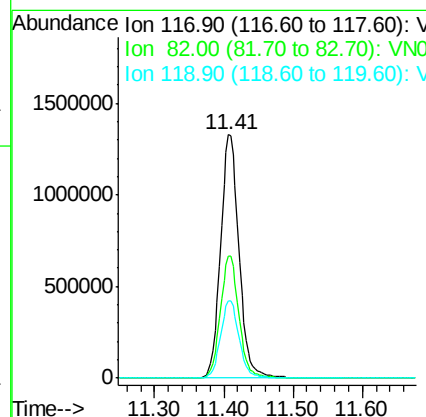
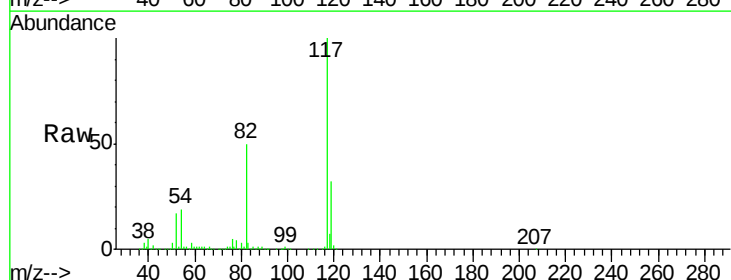
Instrument :
MSVOA_N
ClientSampled :

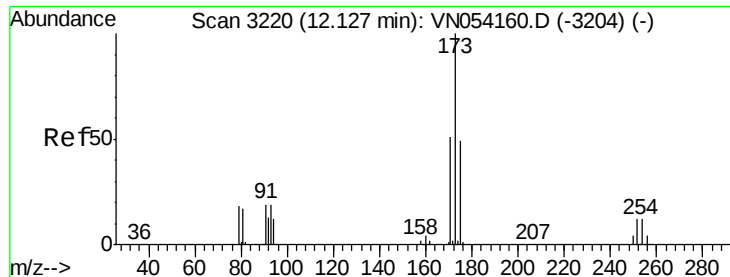
Tot Ion: 95 Resp: 1101627
Ion Ratio Lower Upper
95 100
174 97.2 0.0 191.0
176 95.1 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054212.D
Acq: 13 Mar 2019 15:14

Tgt Ion: 117 Resp: 2444862
Ion Ratio Lower Upper
117 100
82 50.3 40.0 60.0
119 31.7 25.8 38.6





#71

Bromoform

Concen: 2.835 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

Instrument :

MSVOA_N

ClientSampleId :

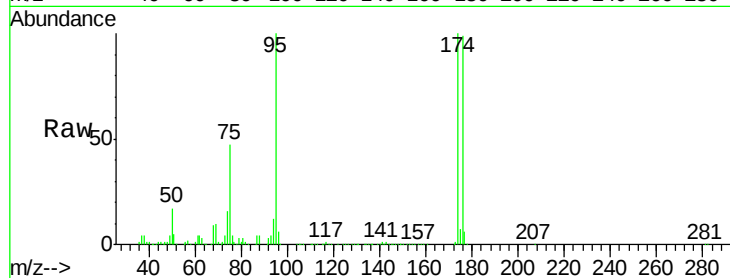
Tot Ion:173 Resp: 7554

Ion Ratio Lower Upper

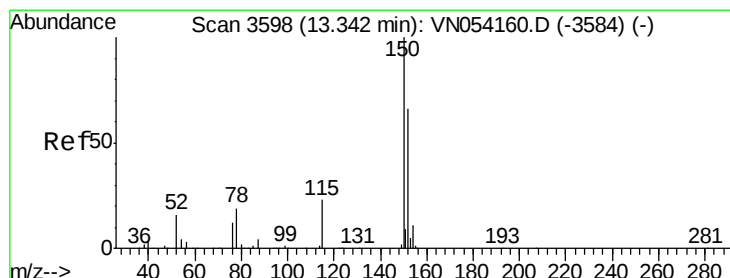
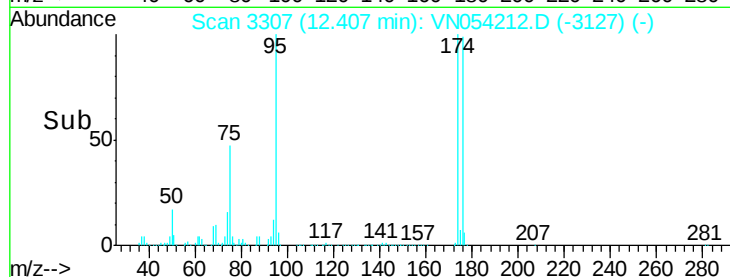
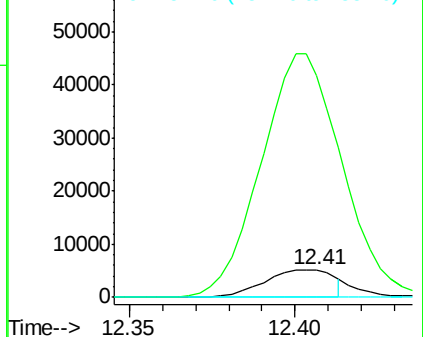
173 100

175 886.2 24.4 73.2#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

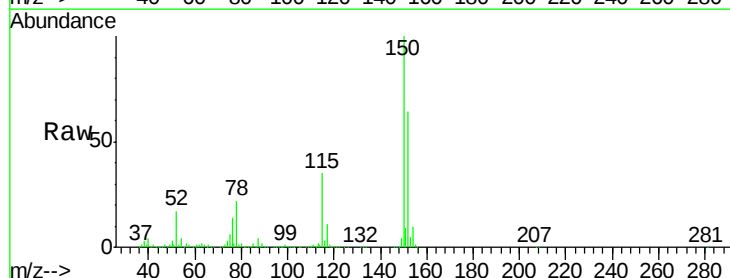
Tgt Ion:152 Resp: 1019660

Ion Ratio Lower Upper

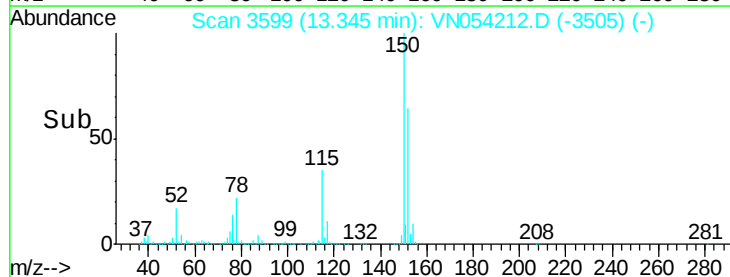
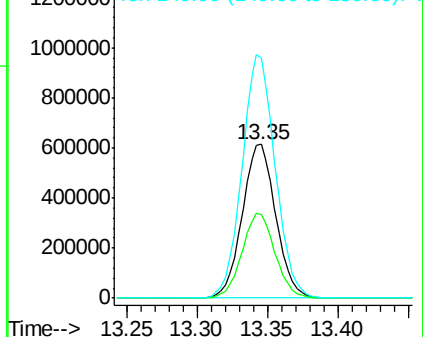
152 100

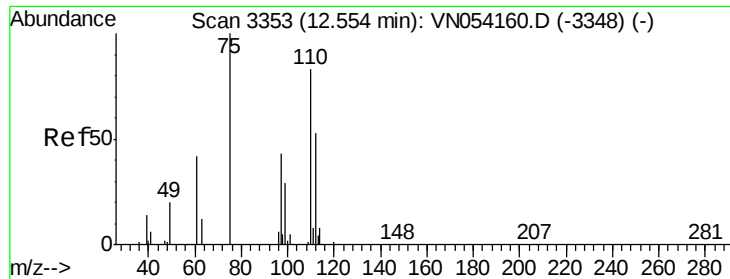
115 54.4 27.2 81.6

150 156.8 0.0 349.2



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





#76

1,2,3-Trichloropropane

Concen: 35.546 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

Instrument :

MSVOA_N

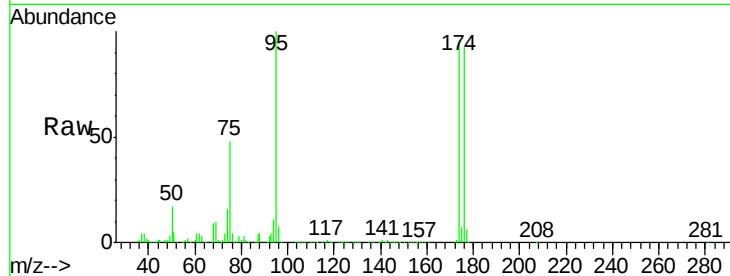
ClientSampleId :

Tot Ion: 75 Resp: 532991

Ion Ratio Lower Upper

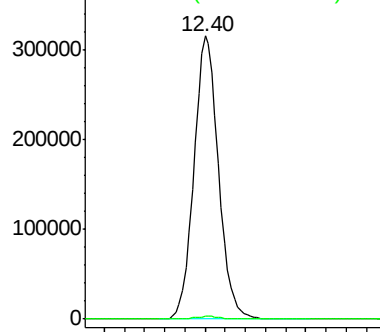
75 100

77 1.0 0.0 0.0#

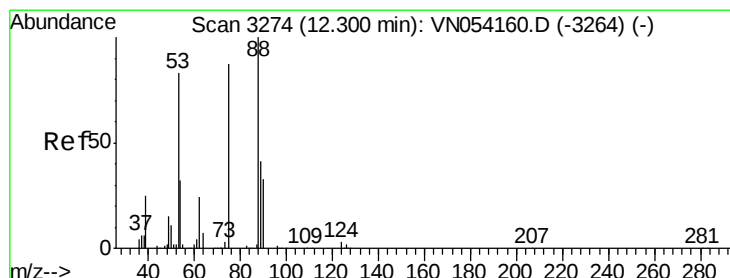
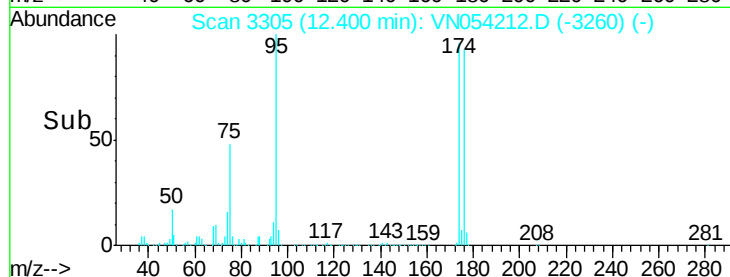


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 121.511 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054212.D

Acq: 13 Mar 2019 15:14

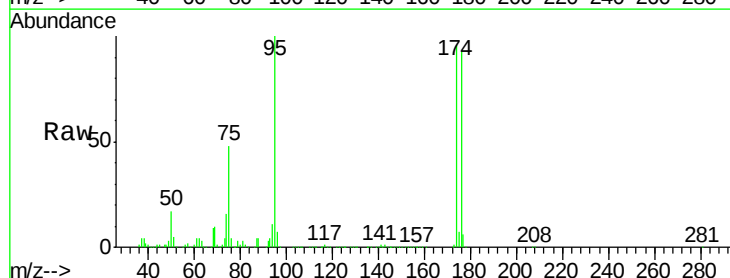
Tgt Ion: 75 Resp: 532991

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

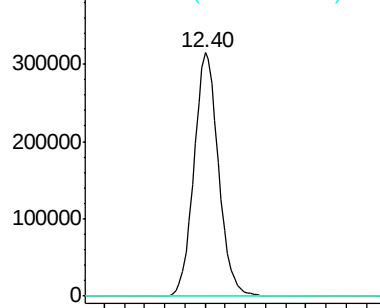
89 0.0 39.2 58.8#



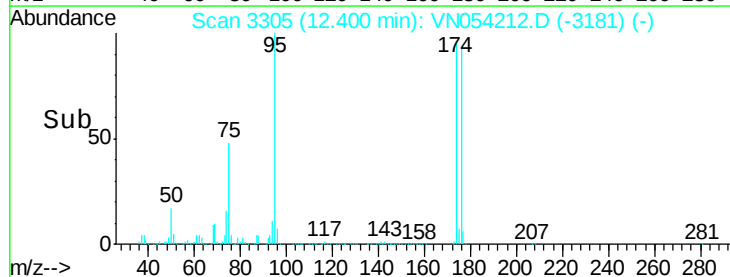
Abundance Ion 74.90 (74.60 to 75.60): VNO

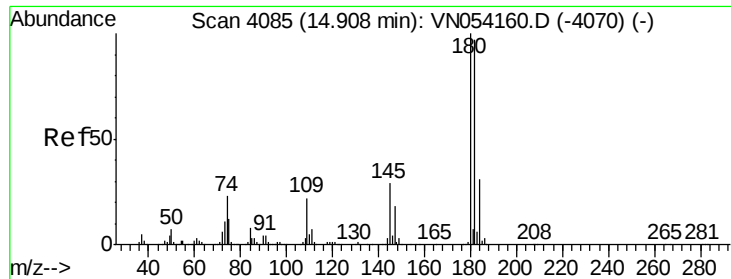
Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO



Time--> 12.30 12.40 12.50

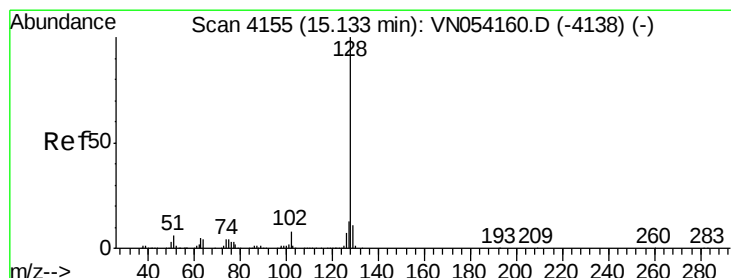
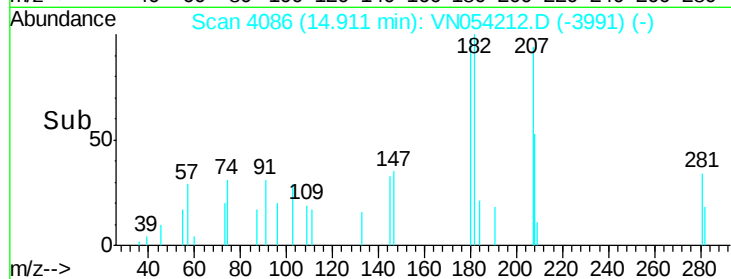
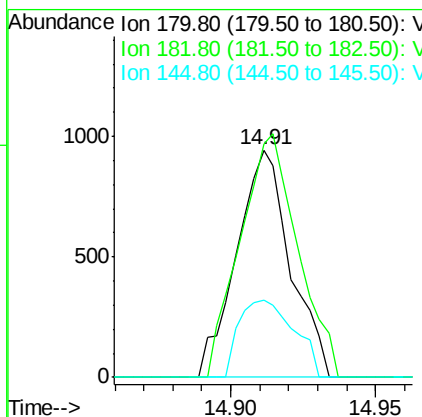
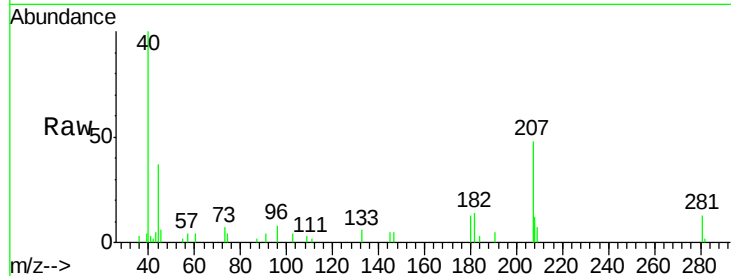




#93
 1,2,4-Trichlorobenzene
 Concen: 2.570 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054212.D
 Acq: 13 Mar 2019 15:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1218
 Ion Ratio Lower Upper
 180 100
 182 114.2 48.0 144.2
 145 34.7 14.2 42.8



#95
 Naphthalene
 Concen: 3.528 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN054212.D
 Acq: 13 Mar 2019 15:14

Tgt Ion:128 Resp: 2801
 Ion Ratio Lower Upper
 128 100
 127 1.0 10.1 15.1#
 129 14.0 8.7 13.1#

