

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052818.D
 Acq On : 12 Dec 2018 11:09
 Operator : MD\SY
 Sample : VN1212WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBL01

Quant Time: Dec 13 03:41:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	153121	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	886800	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	756370	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	312466	29.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.83%
60) 4-Bromofluorobenzene	12.40	95	321240	27.78	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.60%
63) Toluene-d8	10.09	98	1021812	29.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.13%

Target Compounds

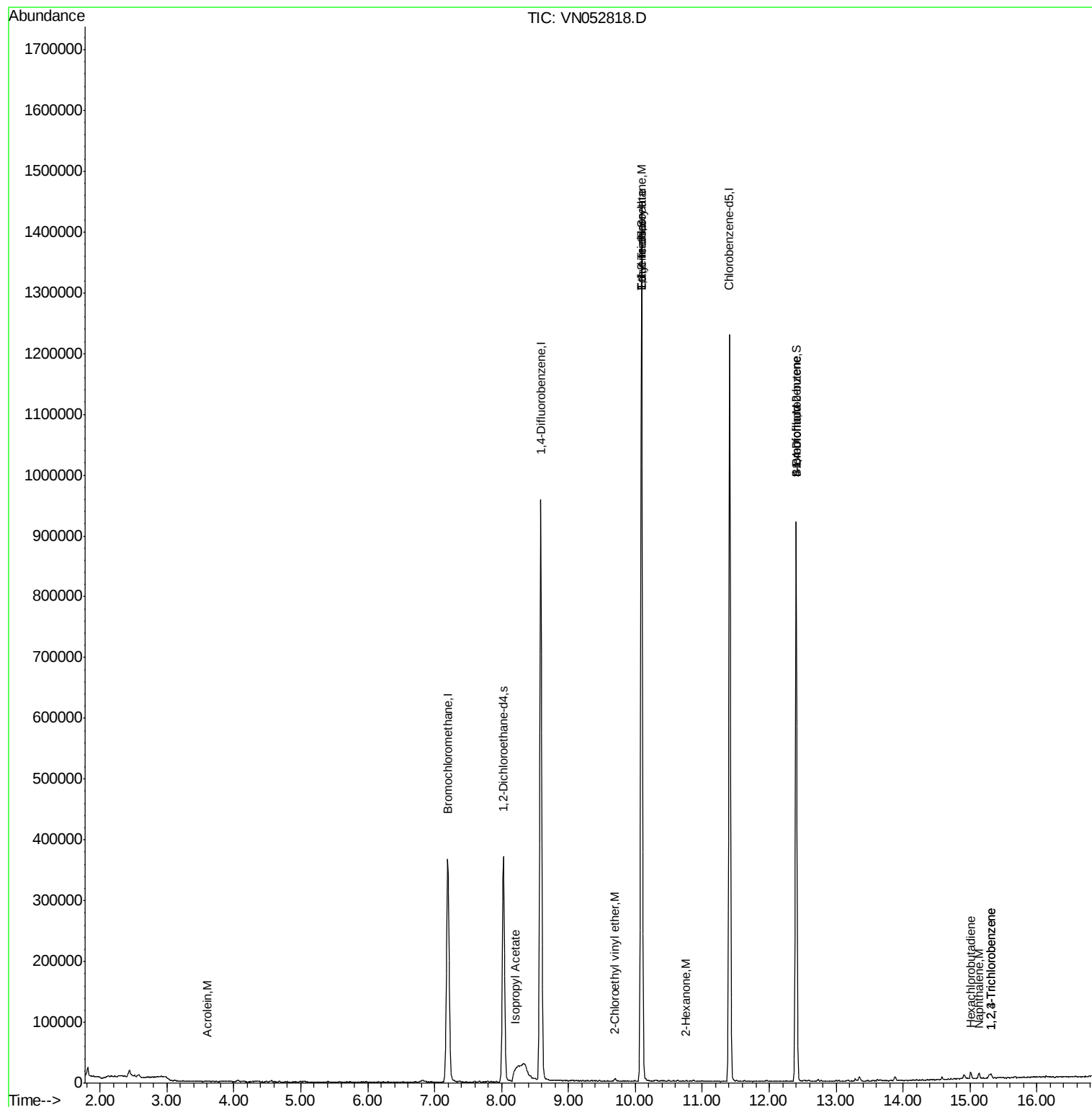
					Ovalue
13) Acrolein	3.60	56	661	0.771 ug/l #	67
44) Isopropyl Acetate	8.20	43	11784	0.872 ug/l #	58
50) 1,1,2-Trichloroethane	10.10	97	30634	3.664 ug/l #	1
51) Ethyl methacrylate	10.10	69	2814	0.268 ug/l	96
55) 2-Chloroethyl vinyl ether	9.69	63	2055	0.334 ug/l #	85
56) Bromoform	12.40	173	2514	0.418 ug/l #	1
59) 2-Hexanone	10.76	43	1424	0.284 ug/l #	38
77) t-1,4-Dichloro-2-butene	12.40	75	150419	58.977 ug/l #	11
89) 1,2,4-Trichlorobenzene	15.32	180	3093	0.359 ug/l	100
90) Hexachlorobutadiene	15.01	225	2391	0.423 ug/l	89
91) Naphthalene	15.14	128	8040	0.462 ug/l	97
92) 1,2,3-Trichlorobenzene	15.32	180	3093	0.389 ug/l	98

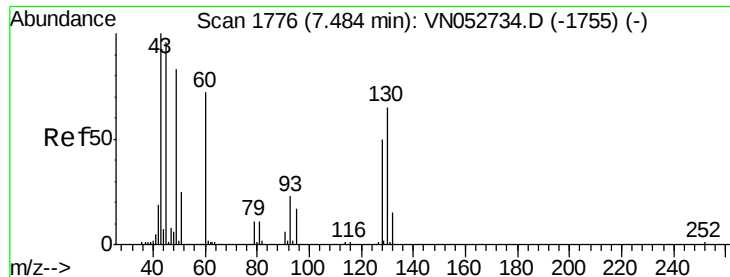
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121218\
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ALS Vial : 3 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
VN1212WBL01

Quant Time: Dec 13 03:41:36 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Nov 27 00:48:33 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBL01

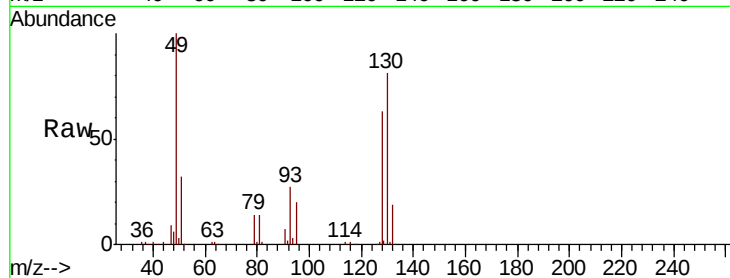
Tot Ion:128 Resp: 153121

Ion Ratio Lower Upper

128 100

49 158.7 0.0 431.8

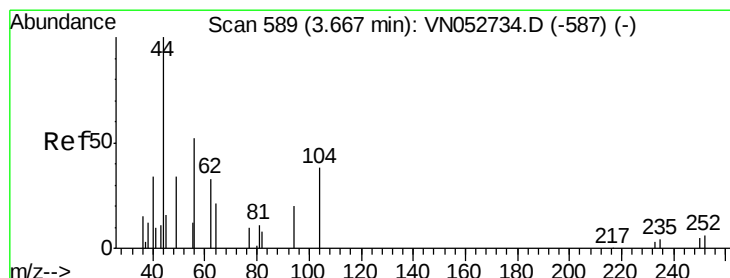
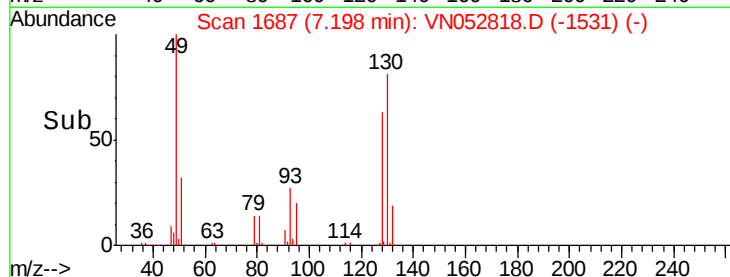
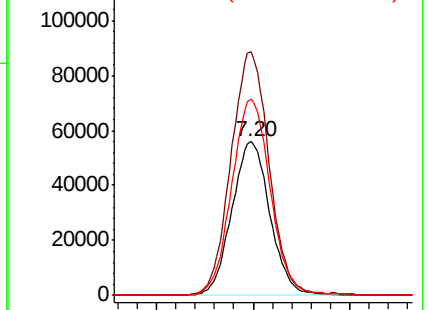
130 130.0 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.771 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN052818.D

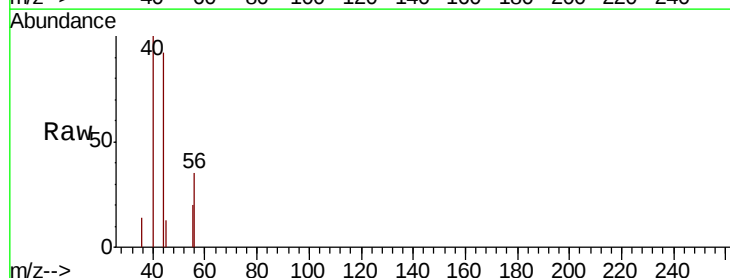
Acq: 12 Dec 2018 11:09

Tgt Ion: 56 Resp: 661

Ion Ratio Lower Upper

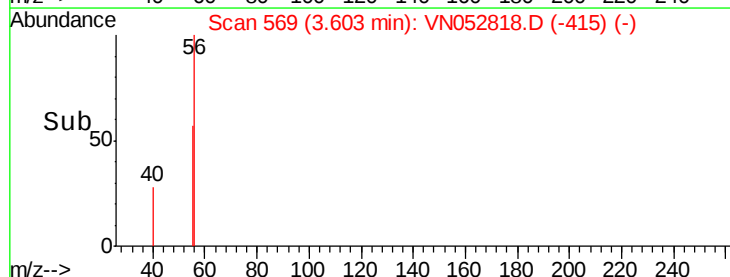
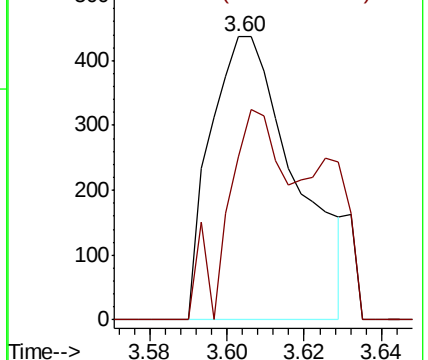
56 100

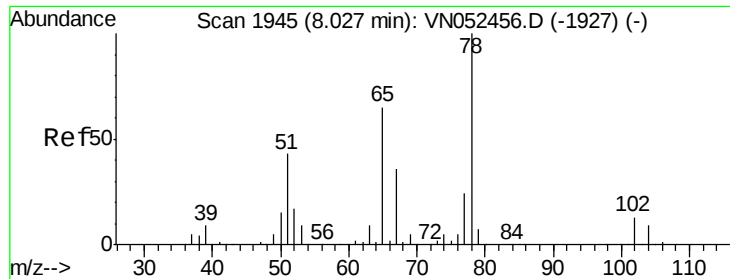
55 44.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Instrument :

MSVOA_N

ClientSampleId :

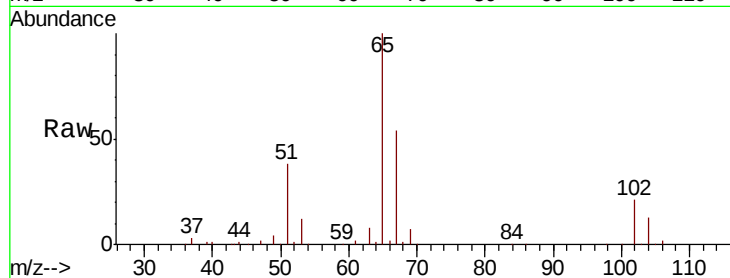
VN1212WBL01

Tot Ion: 65 Resp: 312466

Ion Ratio Lower Upper

65 100

67 53.7 44.6 66.8



Abundance Ion 65.00 (64.70 to 65.70): VN052456.D (-1927) (-)

Ion 67.00 (66.70 to 67.70): VN052456.D (-1927) (-)

8.03

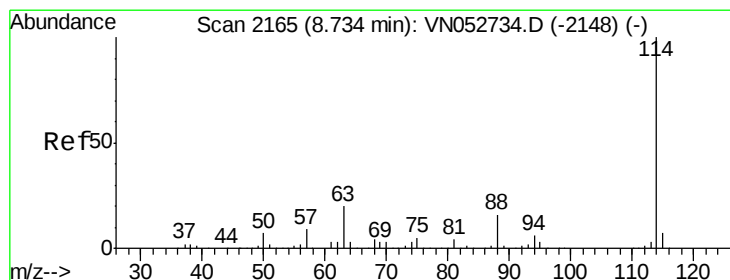
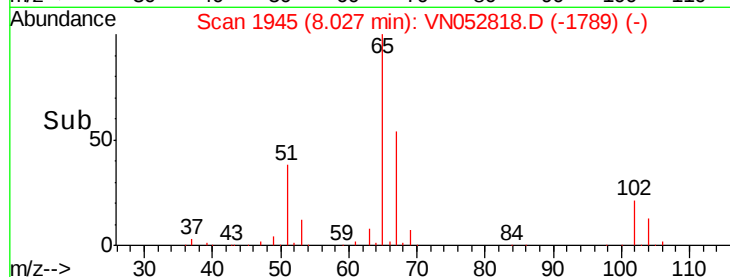
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

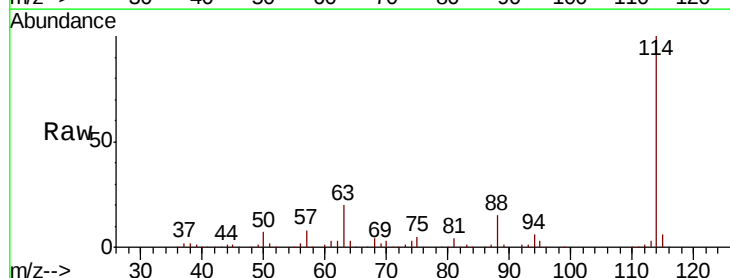
Tgt Ion: 114 Resp: 886800

Ion Ratio Lower Upper

114 100

63 19.9 16.9 25.3

88 15.5 12.8 19.2



Abundance Ion 114.00 (113.70 to 114.70): VN052734.D (-2148) (-)

Ion 63.00 (62.70 to 63.70): VN052734.D (-2148) (-)

Ion 88.00 (87.70 to 88.70): VN052734.D (-2148) (-)

8.59

600000

500000

400000

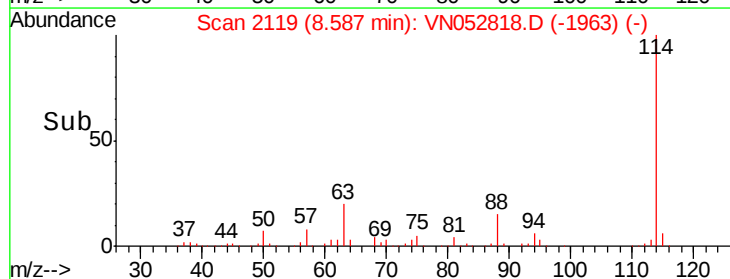
300000

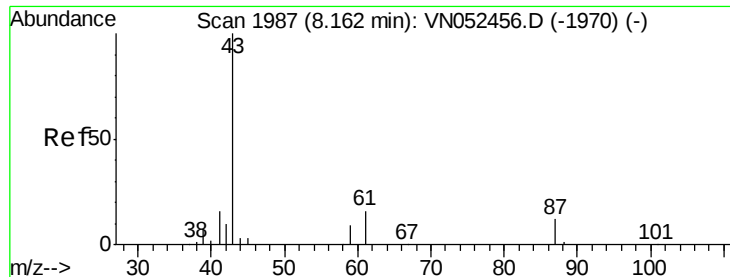
200000

100000

0

Time--> 8.50 8.60 8.70





#44

Isopropyl Acetate

Concen: 0.872 ug/l

RT: 8.20 min Scan# 1998

Delta R.T. 0.04 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Instrument :

MSVOA_N

ClientSampleId :

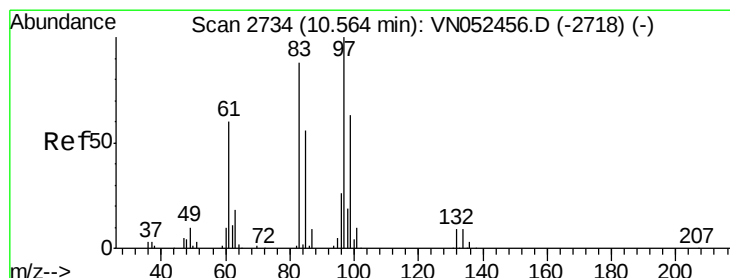
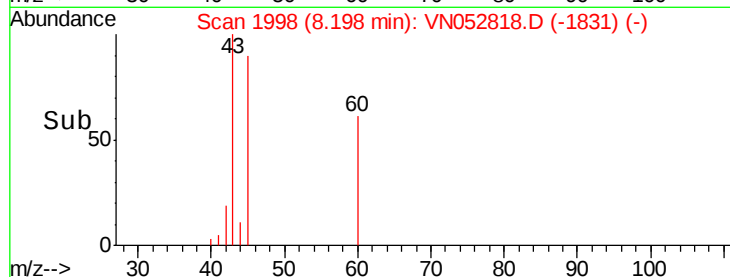
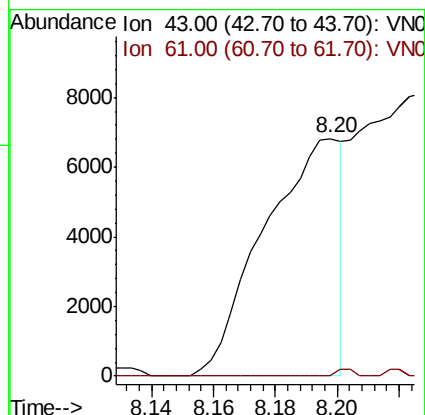
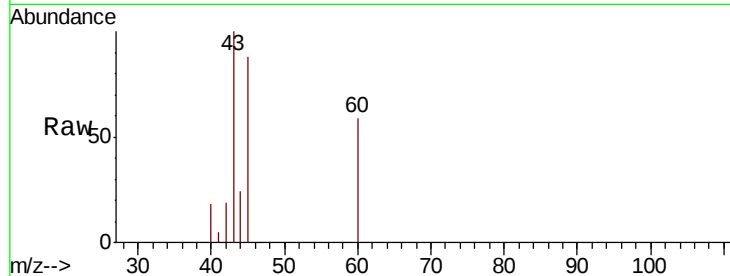
VN1212WBL01

Tot Ion: 43 Resp: 11784

Ion Ratio Lower Upper

43 100

61 0.7 16.0 24.0#



#50

1,1,2-Trichloroethane

Concen: 3.664 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.47 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Tgt Ion: 97 Resp: 30634

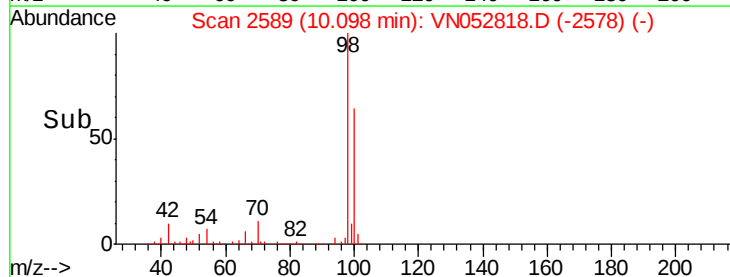
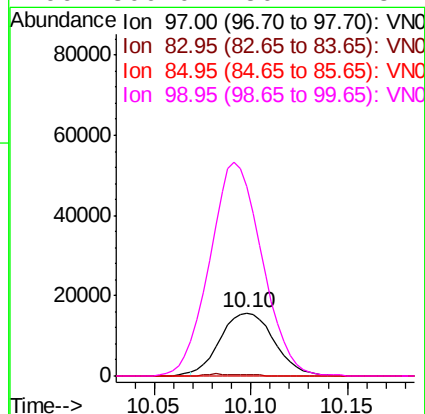
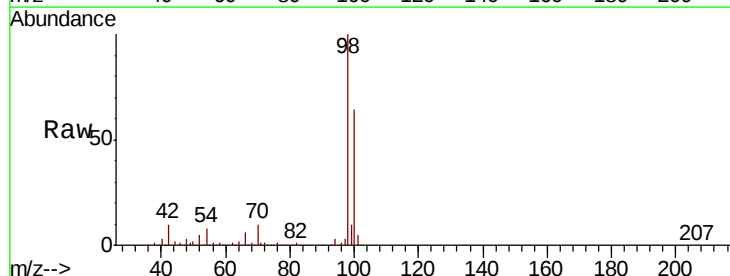
Ion Ratio Lower Upper

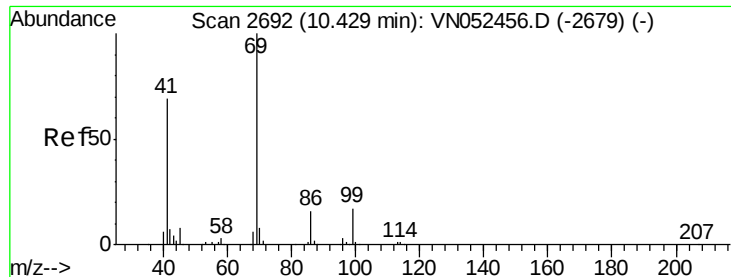
97 100

83 2.4 70.4 105.6#

85 0.0 45.0 67.6#

99 300.0 50.2 75.2#





#51

Ethyl methacrylate

Concen: 0.268 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Instrument :

MSVOA_N

ClientSampled :

VN1212WBL01

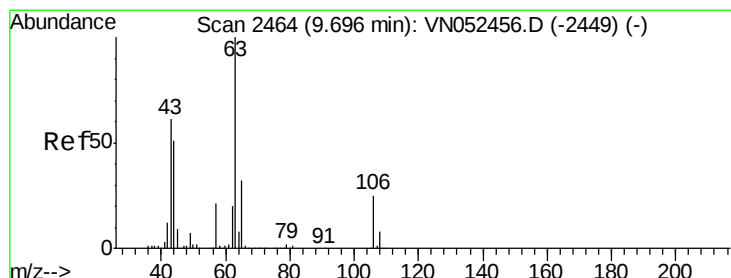
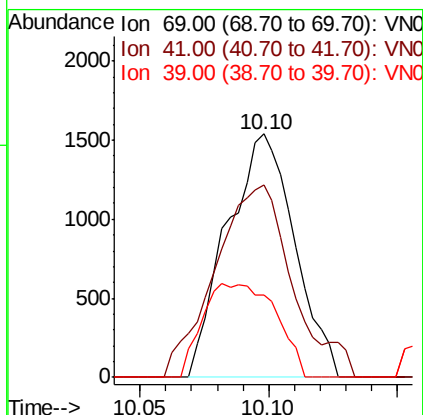
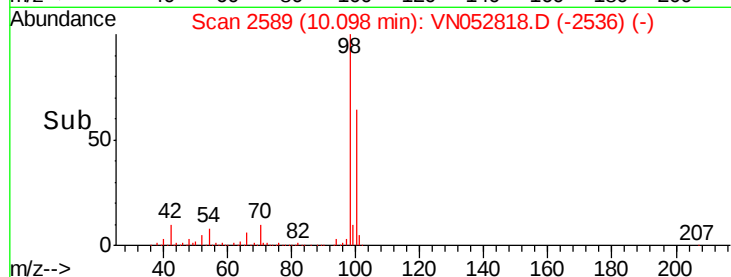
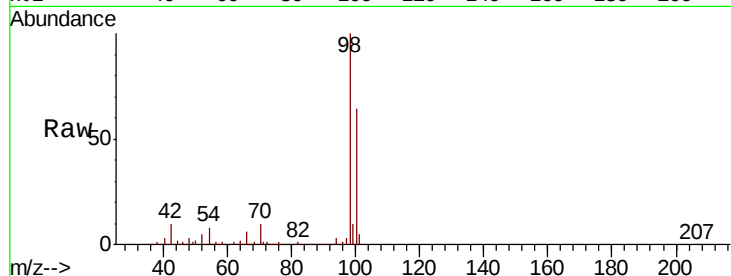
Tot Ion: 69 Resp: 2814

Ion Ratio Lower Upper

69 100

41 64.4 34.4 103.3

39 33.7 16.4 49.2



#55

2-Chloroethyl vinyl ether

Concen: 0.334 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

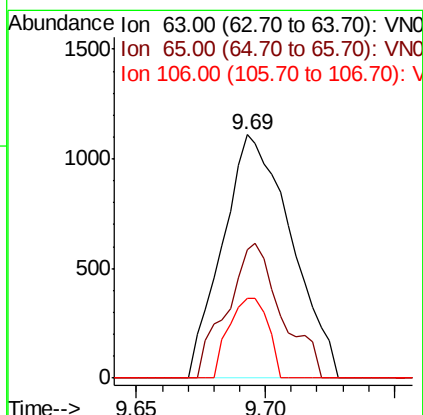
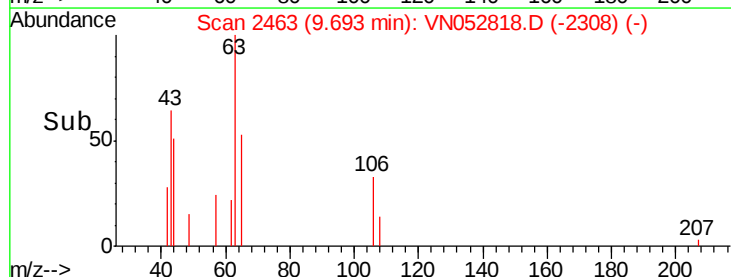
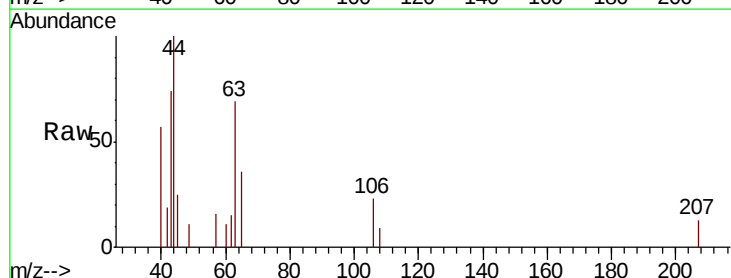
Tgt Ion: 63 Resp: 2055

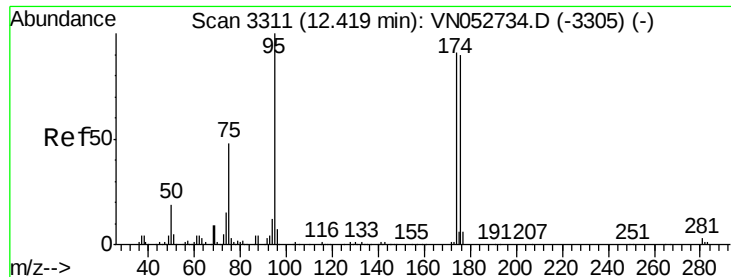
Ion Ratio Lower Upper

63 100

65 40.3 25.4 38.2#

106 18.5 20.4 30.6#

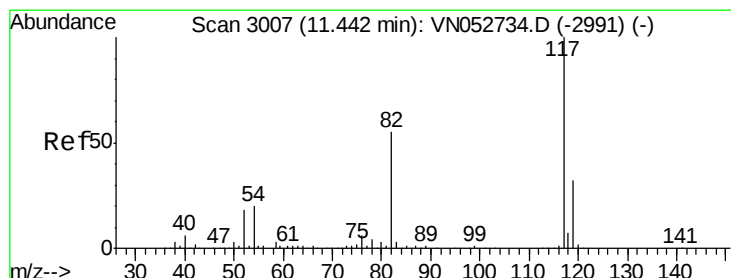
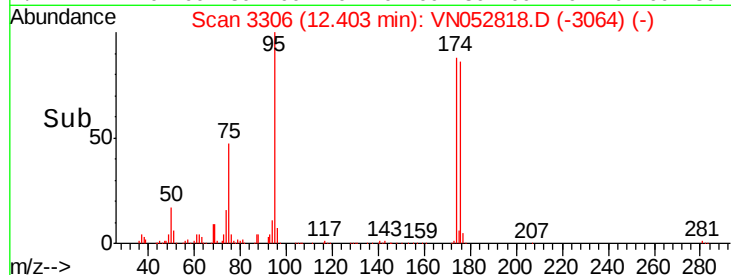
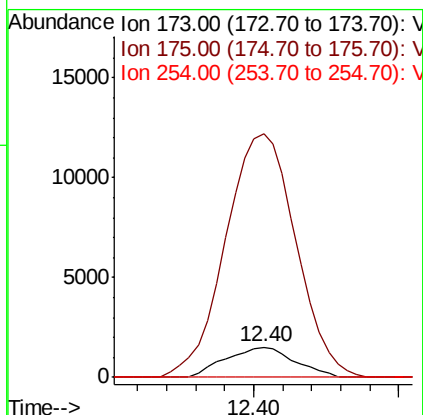
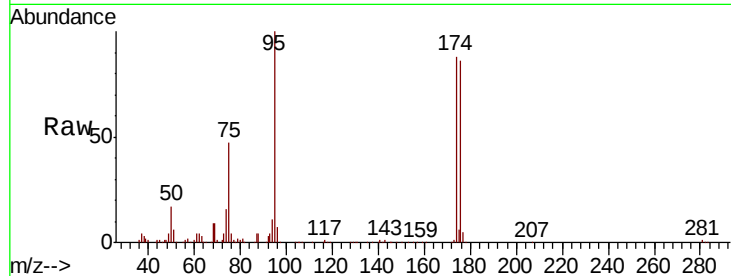




#56
Bromoform
Concen: 0.418 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052818.D
Acq: 12 Dec 2018 11:09

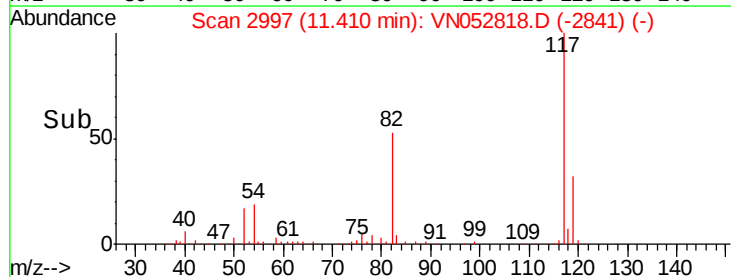
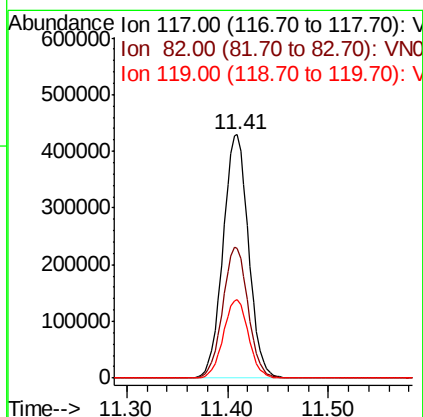
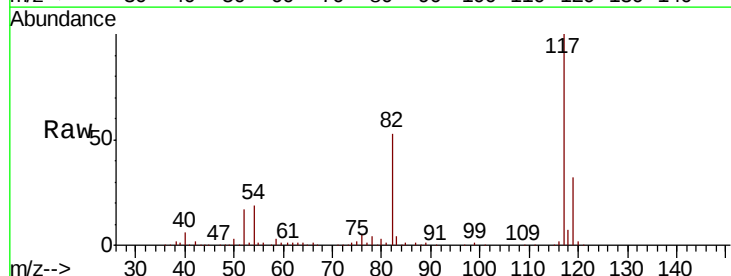
Instrument :
MSVOA_N
ClientSampleId :
VN1212WBL01

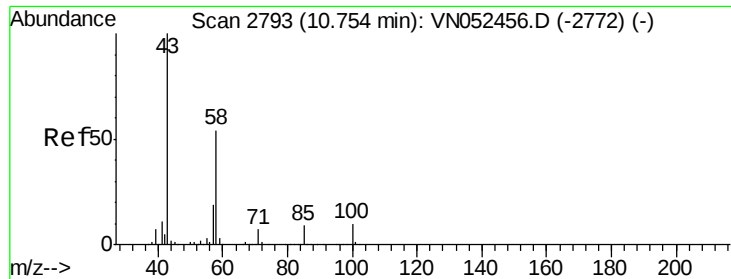
Tot Ion:173 Resp: 2514
Ion Ratio Lower Upper
173 100
175 815.8 38.7 58.1#
254 0.0 8.4 12.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052818.D
Acq: 12 Dec 2018 11:09

Tgt Ion:117 Resp: 756370
Ion Ratio Lower Upper
117 100
82 53.6 44.2 66.2
119 31.9 25.4 38.2

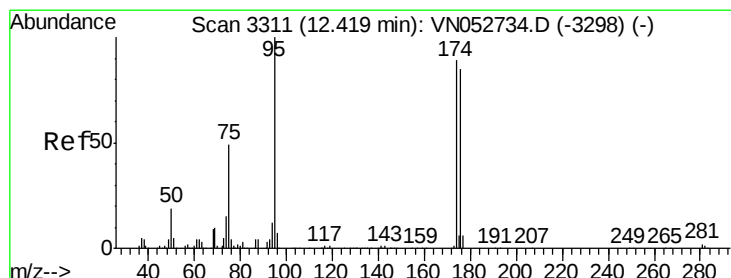
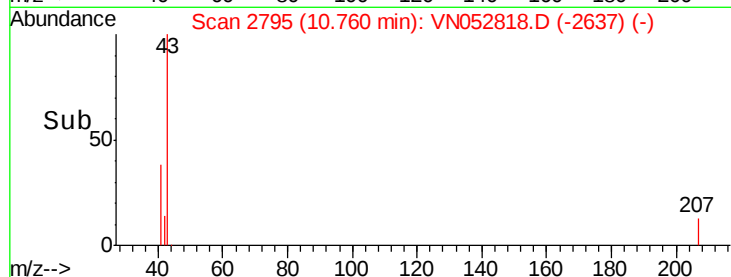
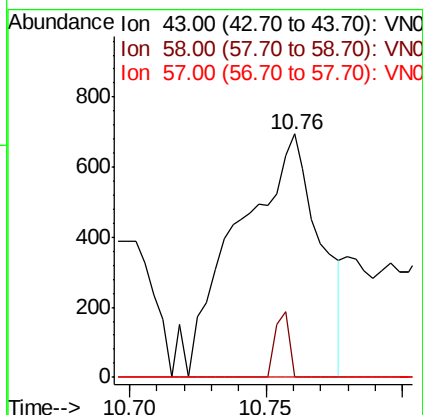
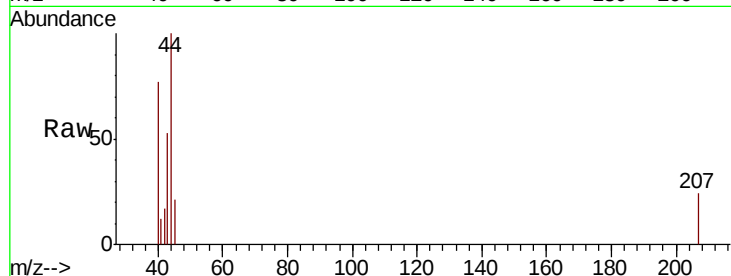




#59
2-Hexanone
Concen: 0.284 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN052818.D
Acq: 12 Dec 2018 11:09

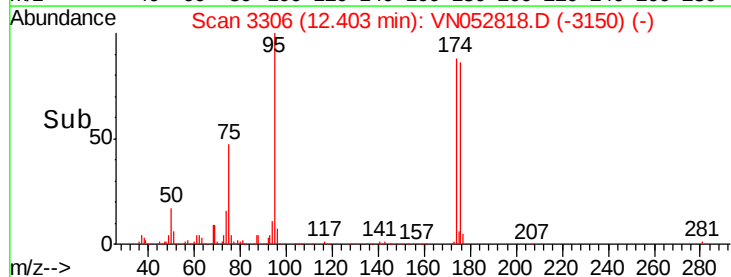
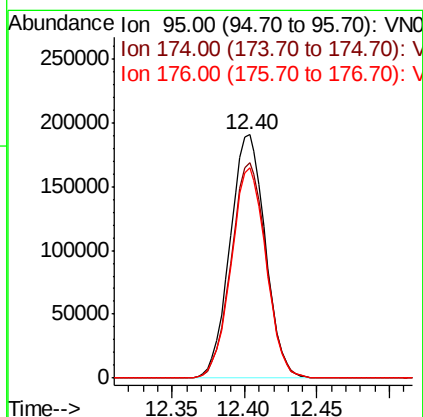
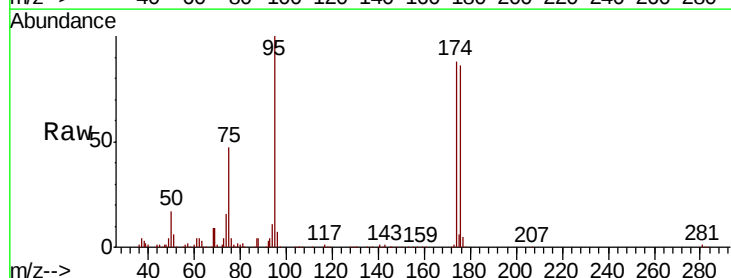
Instrument :
MSVOA_N
ClientSampleId :
VN1212WBL01

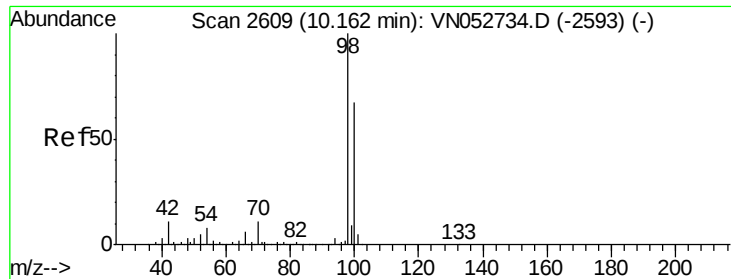
Tot Ion: 43 Resp: 1424
Ion Ratio Lower Upper
43 100
58 4.6 43.2 64.8#
57 0.0 14.9 22.3#



#60
4-Bromofluorobenzene
Concen: 0.284 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052818.D
Acq: 12 Dec 2018 11:09

Tgt Ion: 95 Resp: 321240
Ion Ratio Lower Upper
95 100
174 88.1 67.9 101.9
176 85.3 66.4 99.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Instrument :

MSVOA_N

ClientSampleId :

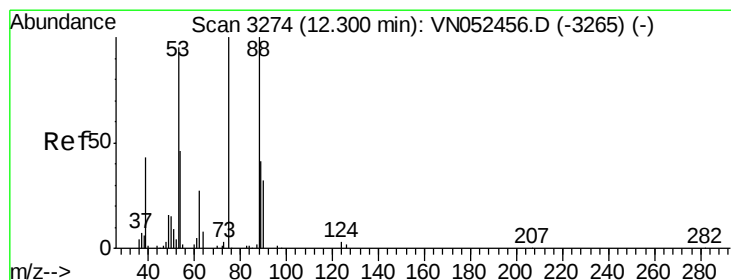
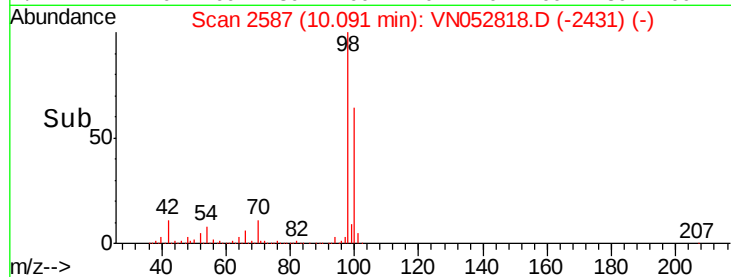
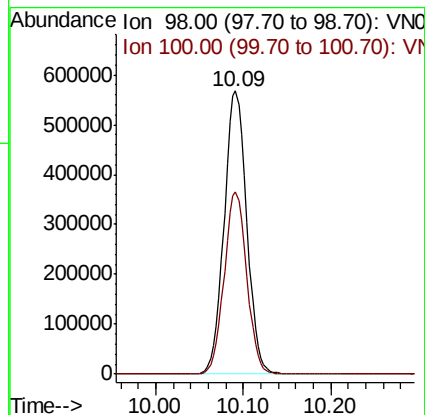
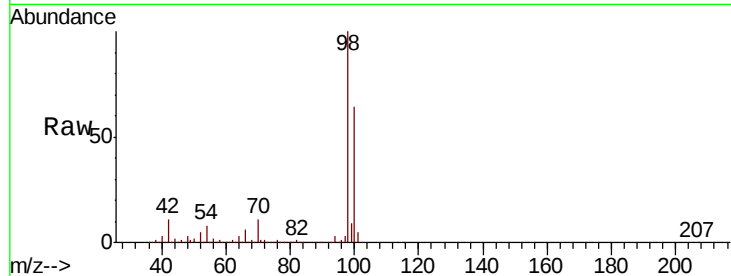
VN1212WBL01

Tot Ion: 98 Resp: 1021812

Ion Ratio Lower Upper

98 100

100 64.2 51.1 76.7



#77

t-1,4-Dichloro-2-butene

Concen: 58.977 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

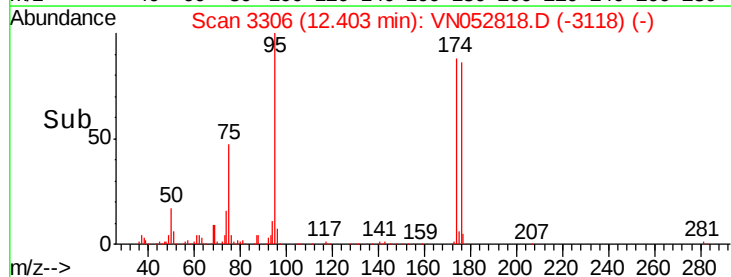
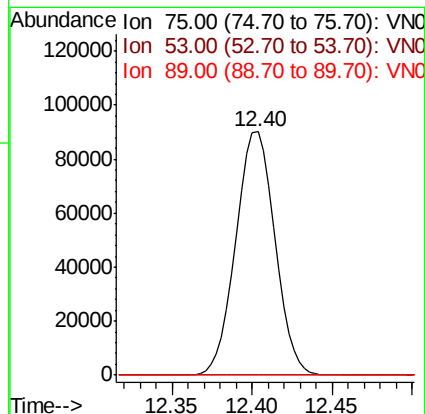
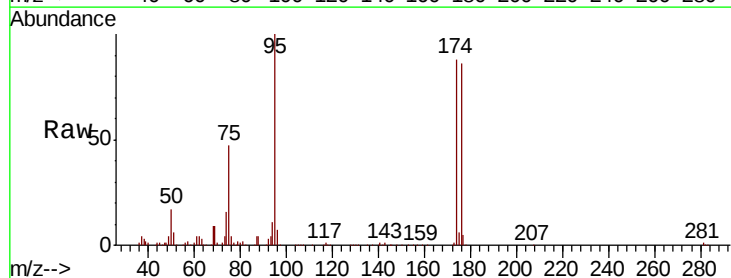
Tgt Ion: 75 Resp: 150419

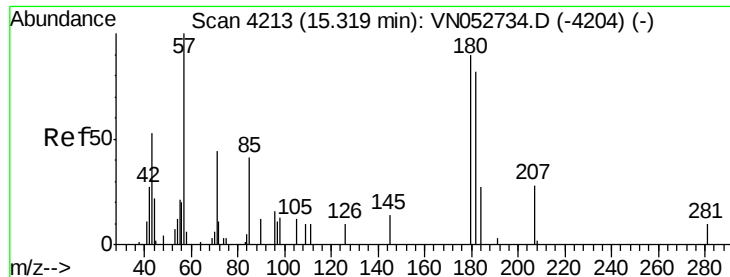
Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#

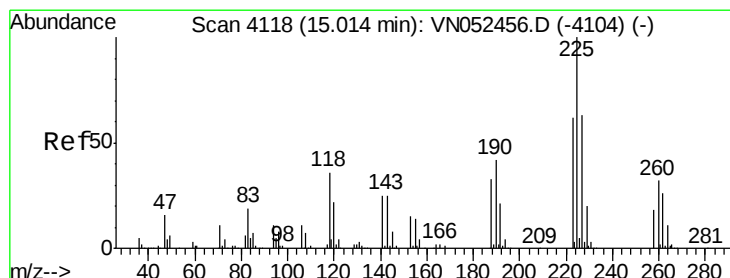
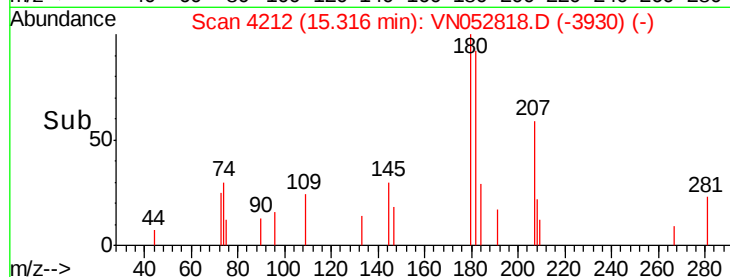
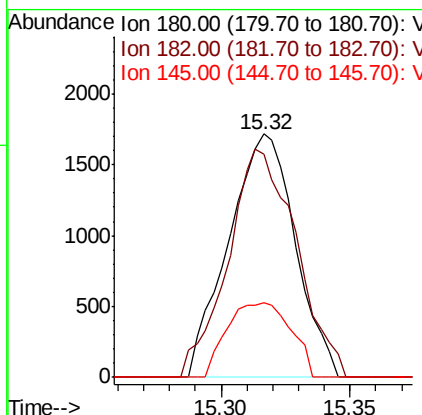
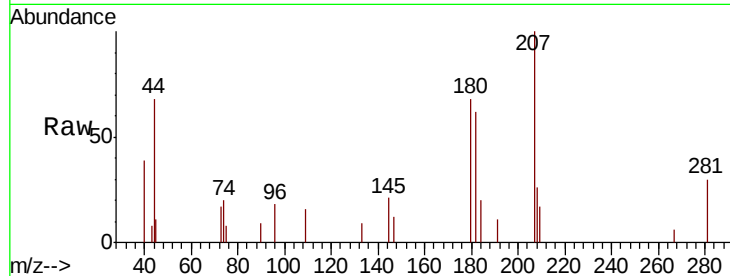




#89
 1,2,4-Trichlorobenzene
 Concen: 0.359 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.41 min
 Lab File: VN052818.D
 Acq: 12 Dec 2018 11:09

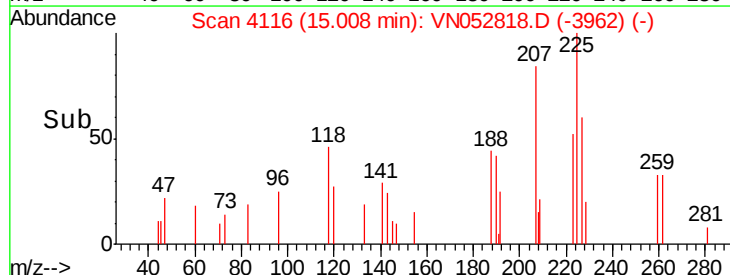
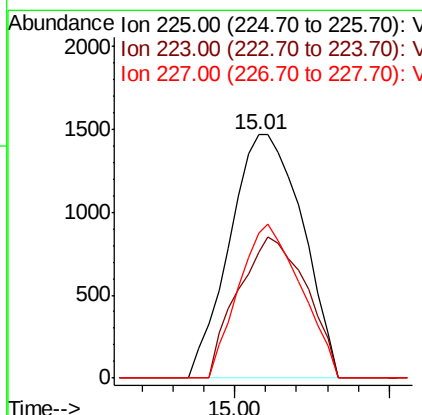
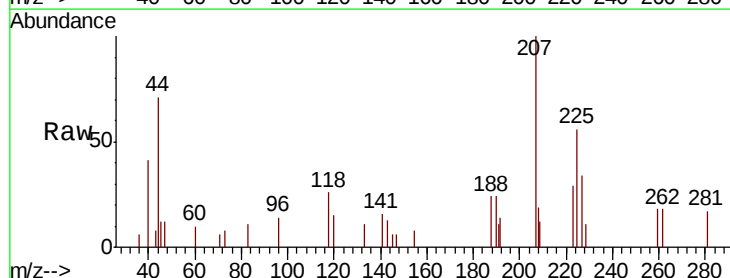
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBL01

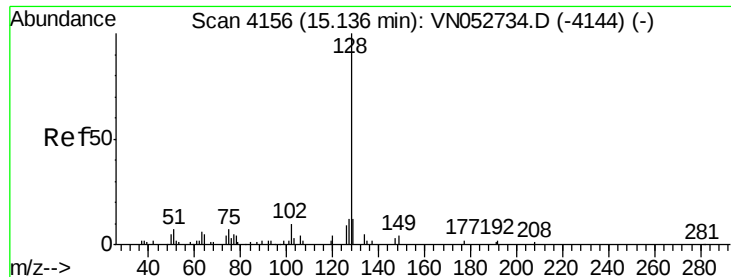
Tot Ion:180 Resp: 3093
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.6 114.8
 145 29.2 23.6 35.4



#90
 Hexachlorobutadiene
 Concen: 0.423 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VN052818.D
 Acq: 12 Dec 2018 11:09

Tgt Ion:225 Resp: 2391
 Ion Ratio Lower Upper
 225 100
 223 54.8 0.0 125.6
 227 54.0 0.0 127.8





#91

Naphthalene

Concen: 0.462 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBL01

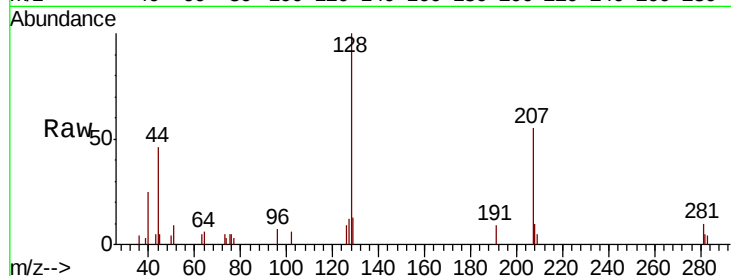
Tot Ion:128 Resp: 8040

Ion Ratio Lower Upper

128 100

127 11.4 9.9 14.9

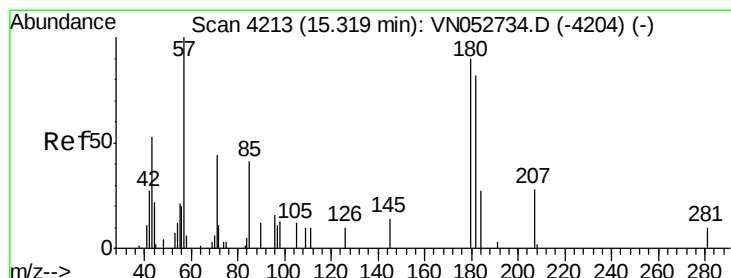
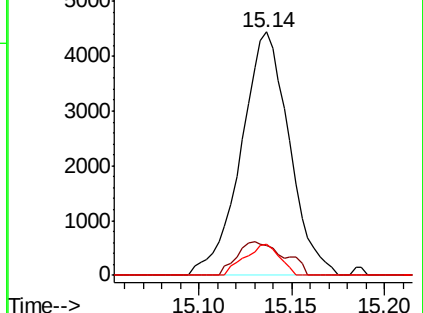
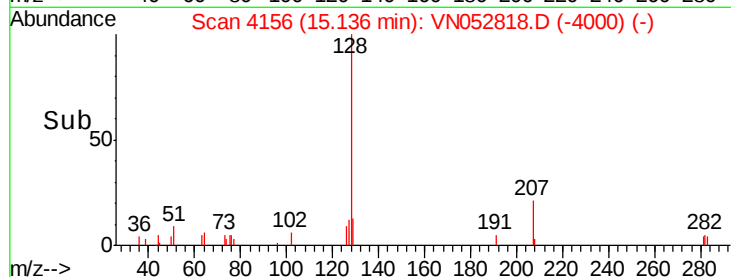
129 9.2 8.5 12.7



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



#92

1,2,3-Trichlorobenzene

Concen: 0.389 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052818.D

Acq: 12 Dec 2018 11:09

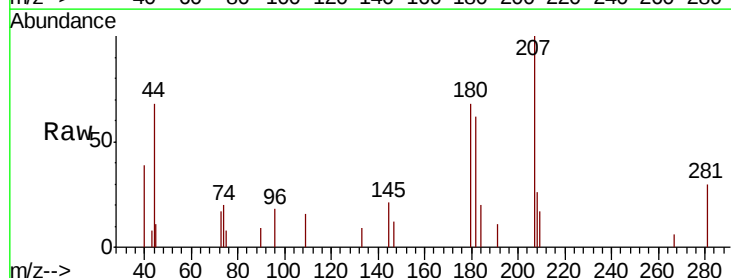
Tgt Ion:180 Resp: 3093

Ion Ratio Lower Upper

180 100

182 96.1 0.0 196.2

145 29.2 0.0 62.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

