

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051679.D
 Acq On : 5 Oct 2018 11:54
 Operator : MD\SY
 Sample : VN1005WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBL01

Quant Time: Oct 05 14:53:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	105140	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	583185	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	471399	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	216112	29.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.70%
60) 4-Bromofluorobenzene	12.40	95	169318	23.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.47%
63) Toluene-d8	10.09	98	674711	32.24	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.47%

Target Compounds

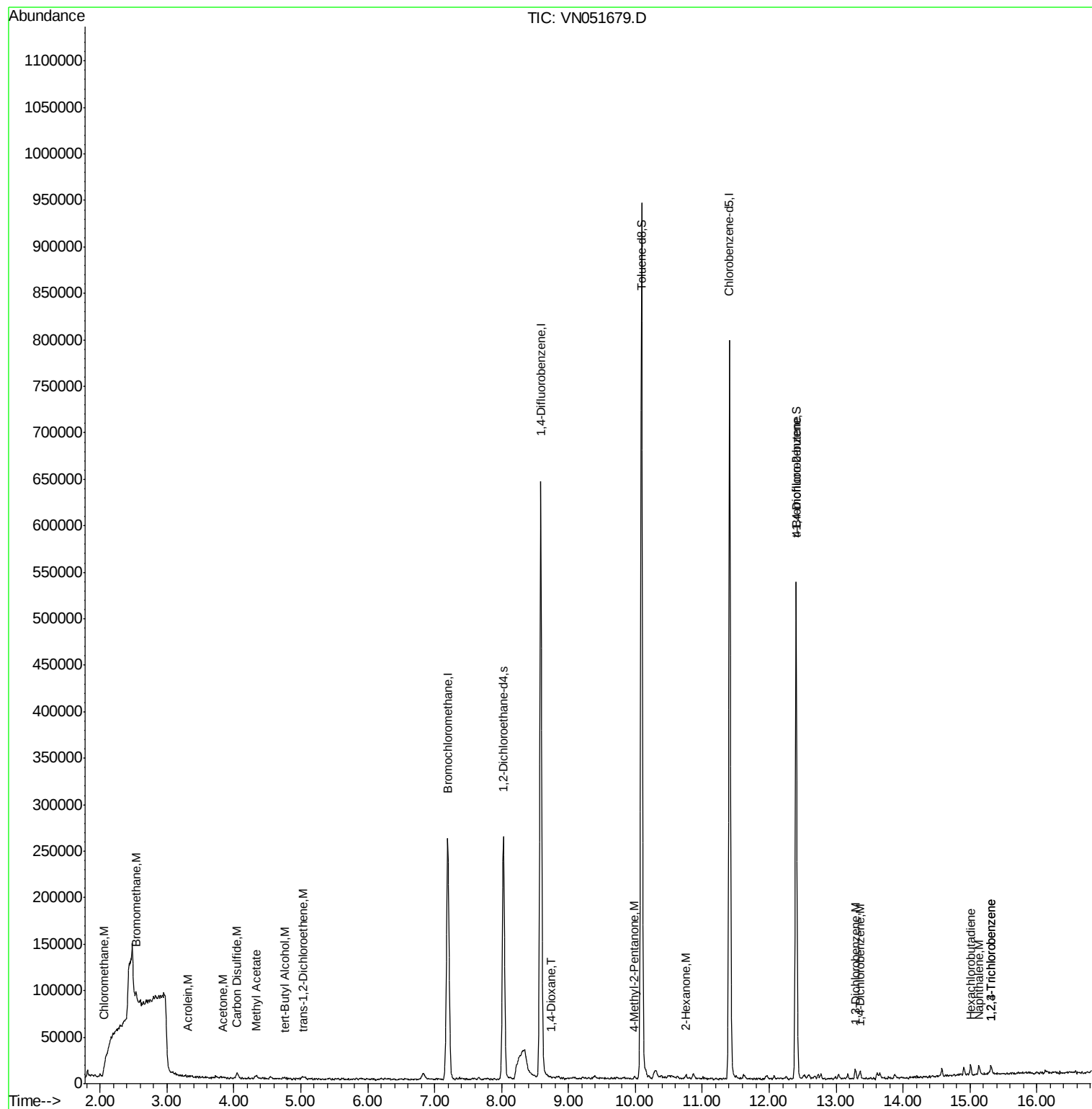
					Ovalue	
3) Chloromethane	2.06	50	1513	0.251	ug/l	93
5) Bromomethane	2.55	94	3328	0.468	ug/l	94
12) Methyl Acetate	4.33	43	2561	0.661	ug/l #	69
13) Acrolein	3.31	56	61	0.214	ug/l	84
15) Acetone	3.83	58	189	0.500	ug/l #	1
16) Carbon Disulfide	4.05	76	9604	0.684	ug/l #	94
19) trans-1,2-Dichloroethene	5.04	96	1678	0.302	ug/l #	32
23) tert-Butyl Alcohol	4.75	59	615	1.506	ug/l #	100
45) 1,4-Dioxane	8.73	88	107	1.928	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	919	0.237	ug/l #	77
59) 2-Hexanone	10.75	43	1483	0.566	ug/l #	79
77) t-1,4-Dichloro-2-butene	12.40	75	92994	52.581	ug/l #	12
83) 1,3-Dichlorobenzene	13.28	146	2649	0.216	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	2698	0.231	ug/l	89
89) 1,2,4-Trichlorobenzene	15.32	180	3337	7.288	ug/l	93
90) Hexachlorobutadiene	15.01	225	1916	0.525	ug/l	58
91) Naphthalene	15.14	128	8505	0.751	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	3337	0.645	ug/l	90

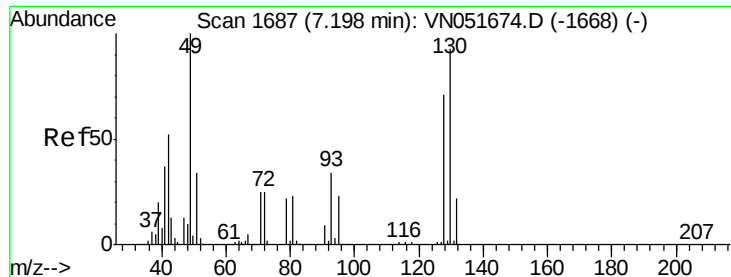
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 05 11:11:26 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: VN051679.D

Acq: 5 Oct 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBL01

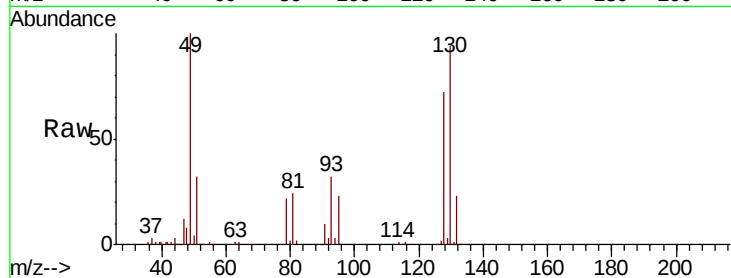
Tot Ion:128 Resp: 105140

Ion Ratio Lower Upper

128 100

49 137.5 0.0 403.3

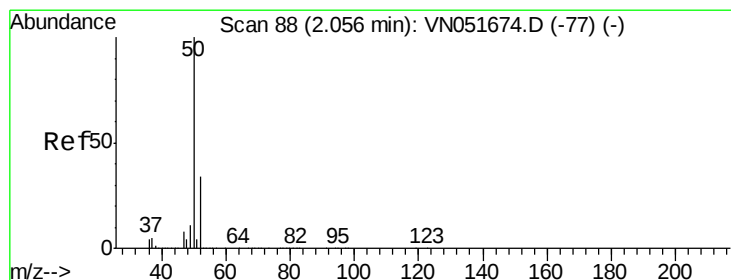
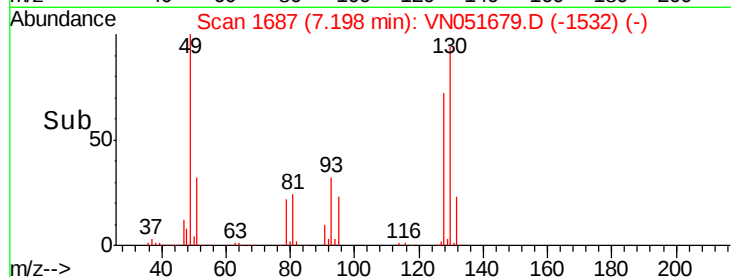
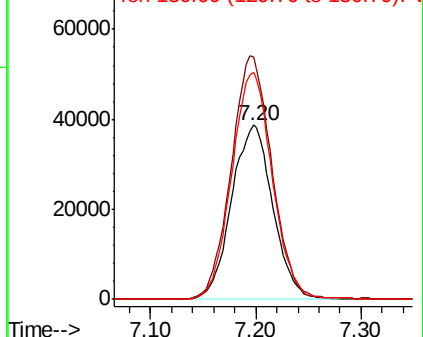
130 128.8 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.251 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051679.D

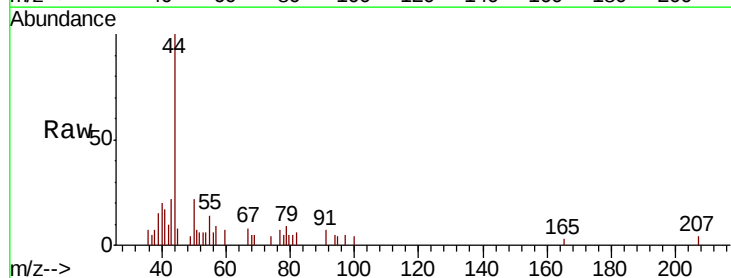
Acq: 5 Oct 2018 11:54

Tgt Ion: 50 Resp: 1513

Ion Ratio Lower Upper

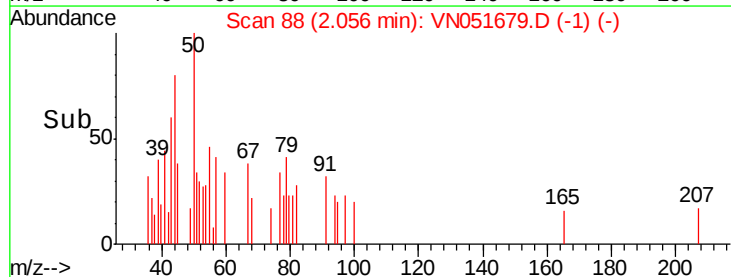
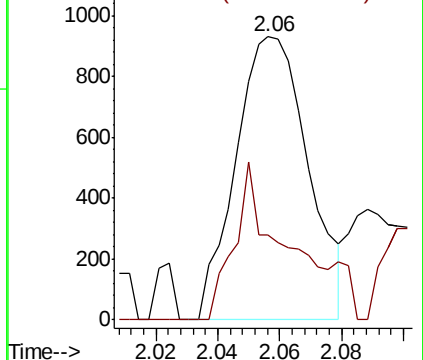
50 100

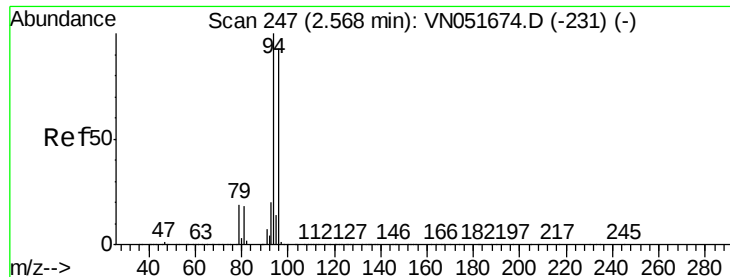
52 29.9 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): VN

Ion 52.00 (51.70 to 52.70): VN





#5

Bromomethane

Concen: 0.468 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.02 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

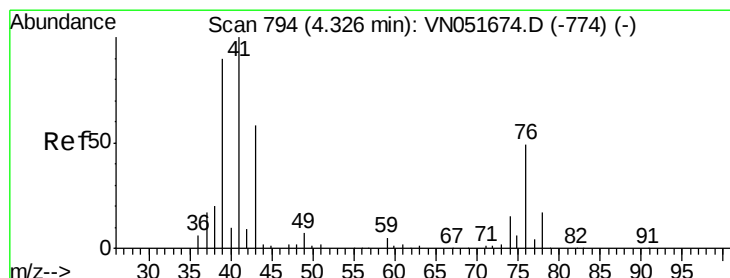
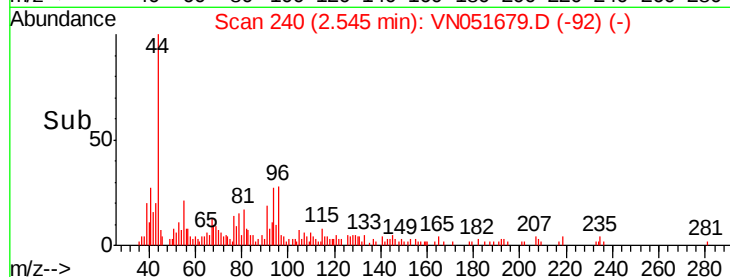
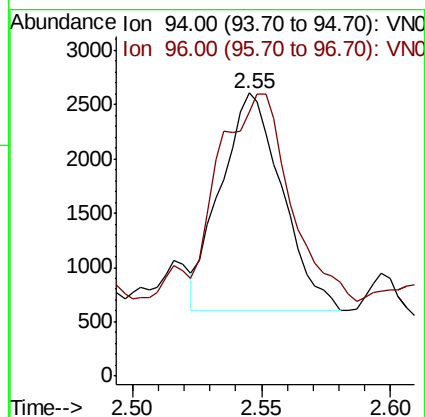
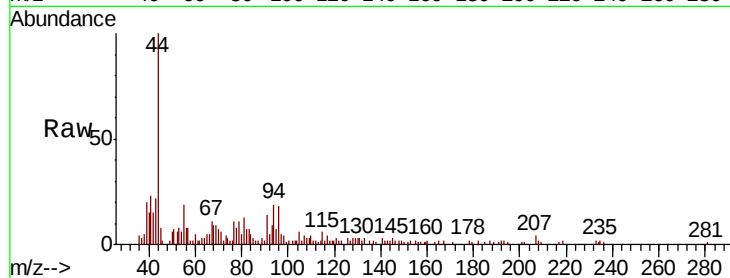
VN1005WBL01

Tot Ion: 94 Resp: 3328

Ion Ratio Lower Upper

94 100

96 77.8 66.4 99.6



#12

Methyl Acetate

Concen: 0.661 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051679.D

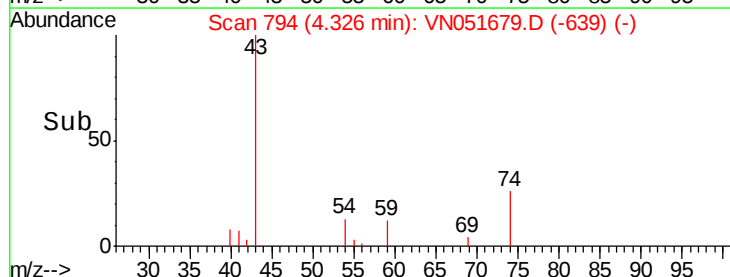
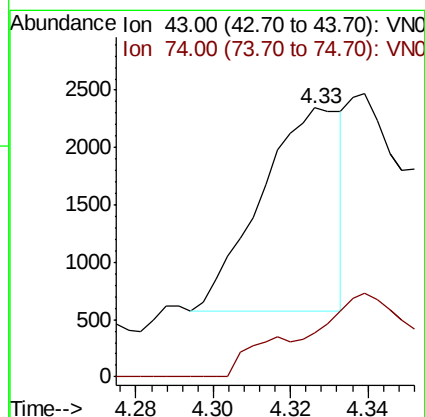
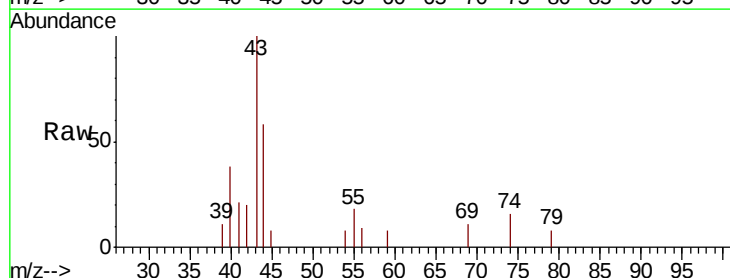
Acq: 5 Oct 2018 11:54

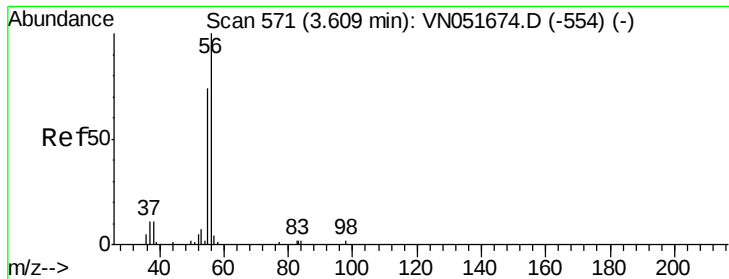
Tgt Ion: 43 Resp: 2561

Ion Ratio Lower Upper

43 100

74 11.1 21.8 32.6#





#13

Acrolein

Concen: 0.214 ug/l

RT: 3.31 min Scan# 478

Delta R.T. -0.30 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

Instrument :

MSVOA_N

ClientSampled :

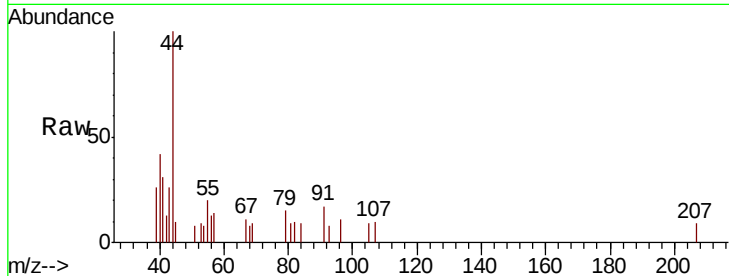
VN1005WBL01

Tot Ion: 56 Resp: 61

Ion Ratio Lower Upper

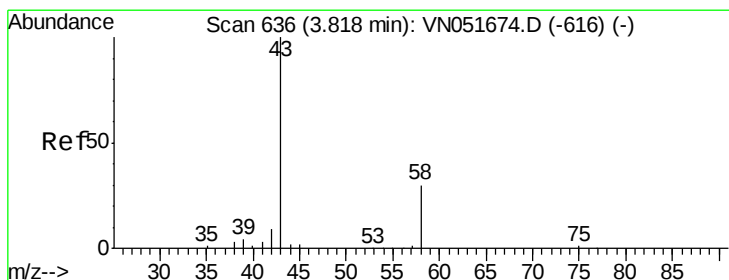
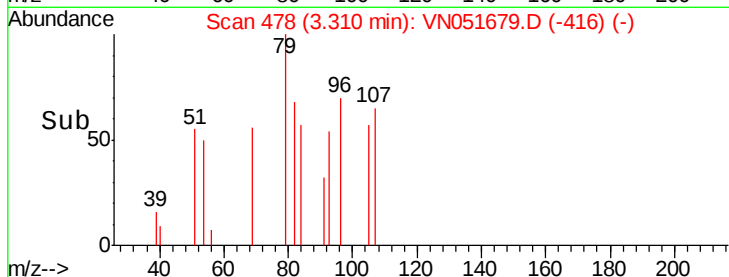
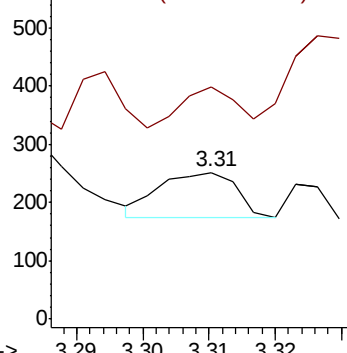
56 100

55 65.6 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 0.500 ug/l

RT: 3.83 min Scan# 641

Delta R.T. 0.02 min

Lab File: VN051679.D

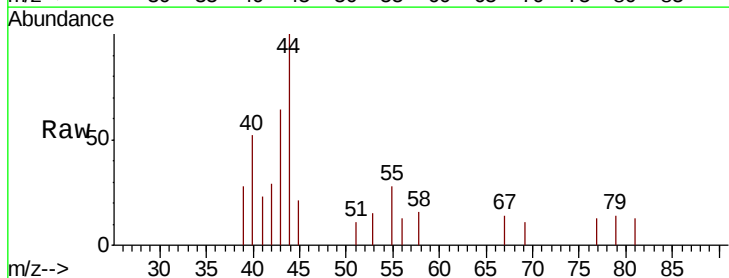
Acq: 5 Oct 2018 11:54

Tgt Ion: 58 Resp: 189

Ion Ratio Lower Upper

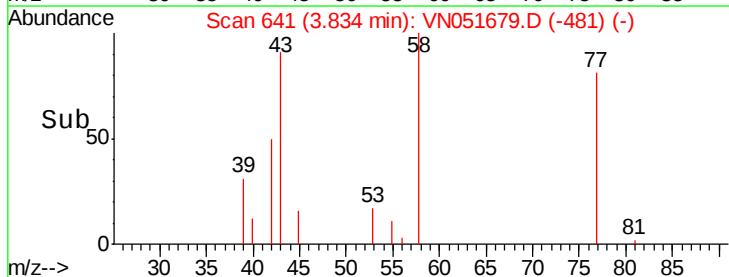
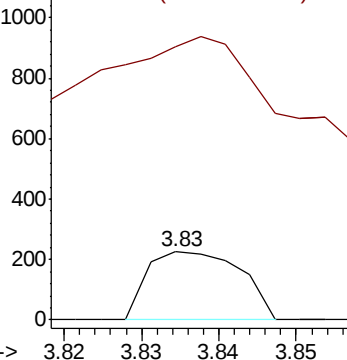
58 100

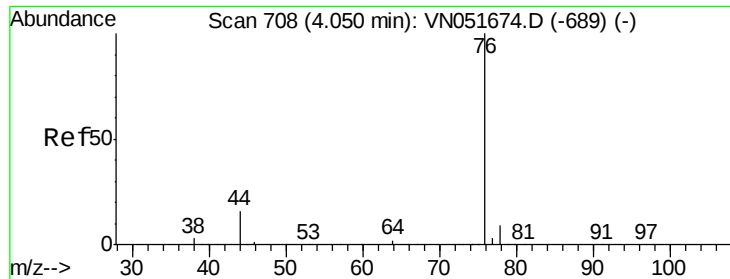
43 99.6 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

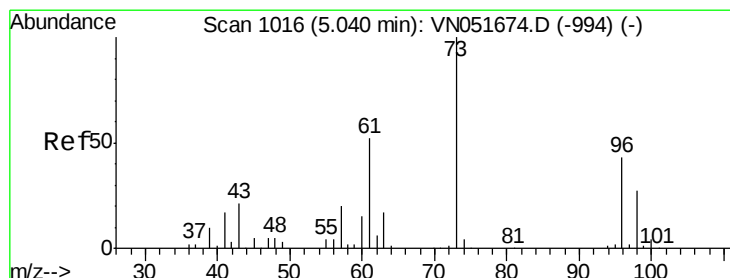
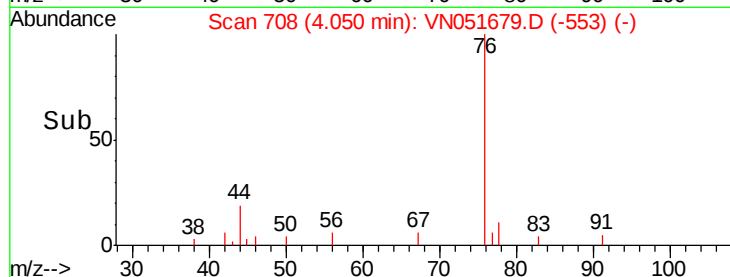
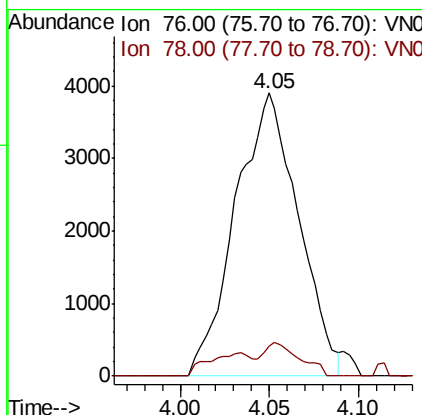
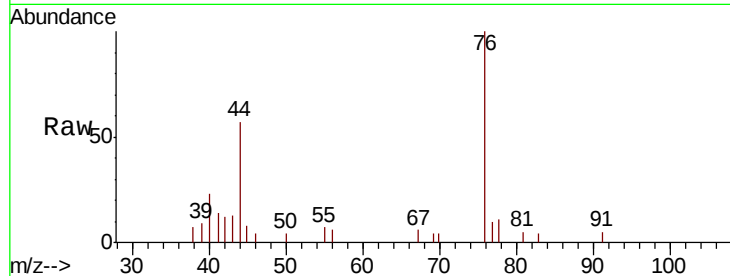




#16
Carbon Disulfide
Concen: 0.684 ug/l
RT: 4.05 min Scan# 708
Delta R.T. -0.00 min
Lab File: VN051679.D
Acq: 5 Oct 2018 11:54

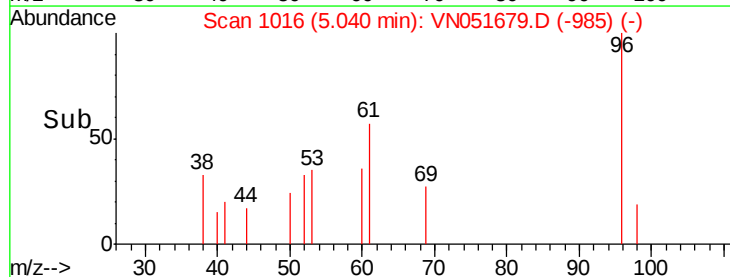
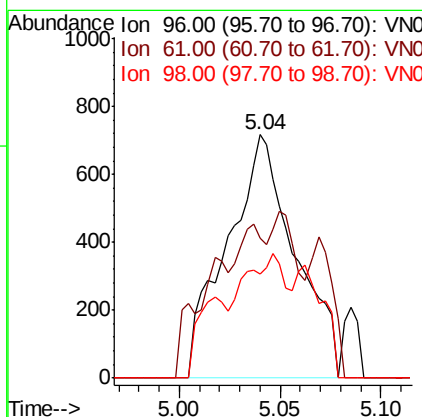
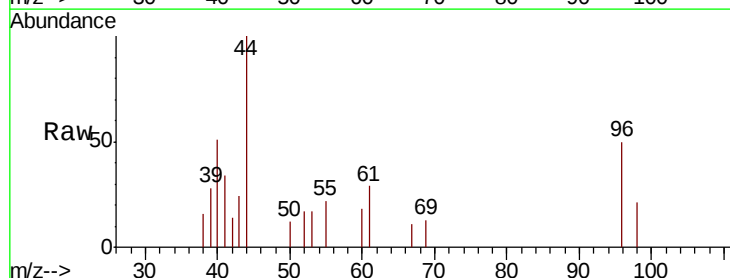
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBL01

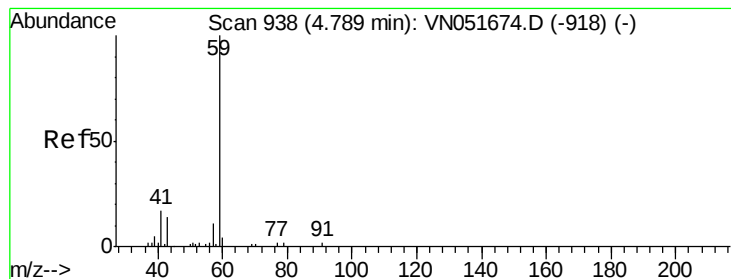
Tot Ion: 76 Resp: 9604
Ion Ratio Lower Upper
76 100
78 10.7 6.7 10.1#



#19
trans-1,2-Dichloroethene
Concen: 0.302 ug/l
RT: 5.04 min Scan# 1016
Delta R.T. -0.00 min
Lab File: VN051679.D
Acq: 5 Oct 2018 11:54

Tgt Ion: 96 Resp: 1678
Ion Ratio Lower Upper
96 100
61 33.3 112.3 168.5#
98 42.5 47.1 70.7#





#23

tert-Butyl Alcohol

Concen: 1.506 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.04 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

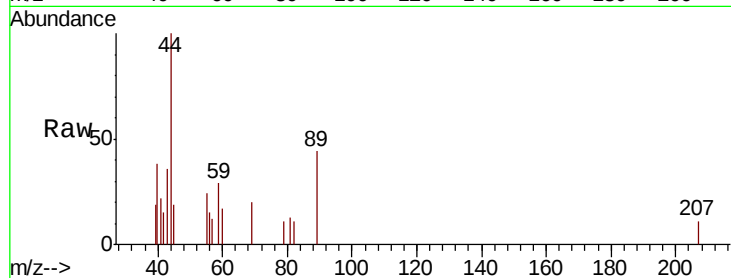
VN1005WBL01

Tot Ion: 59 Resp: 615

Ion Ratio Lower Upper

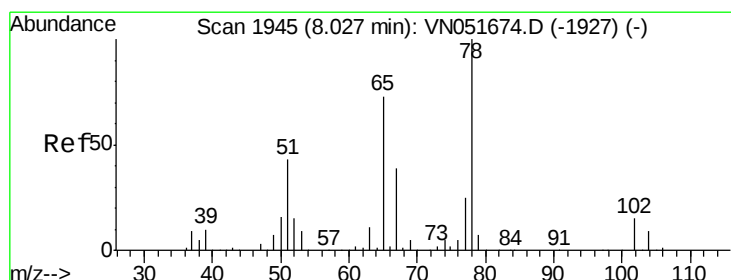
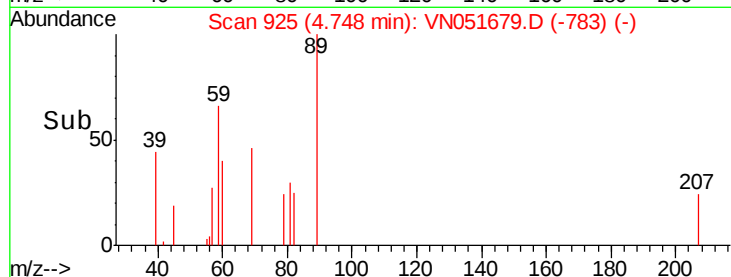
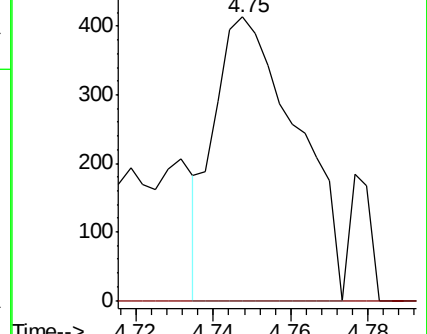
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051679.D

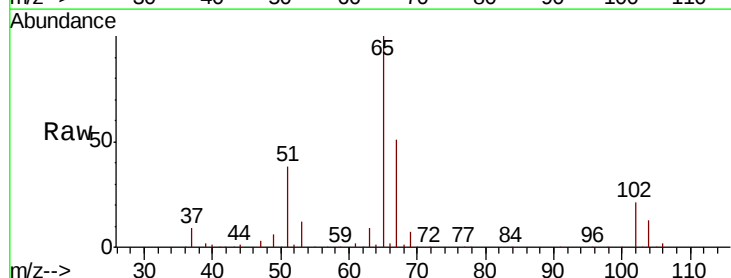
Acq: 5 Oct 2018 11:54

Tgt Ion: 65 Resp: 216112

Ion Ratio Lower Upper

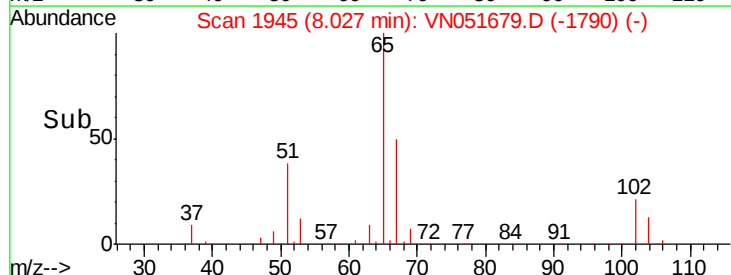
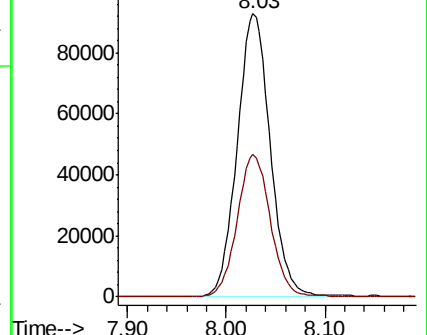
65 100

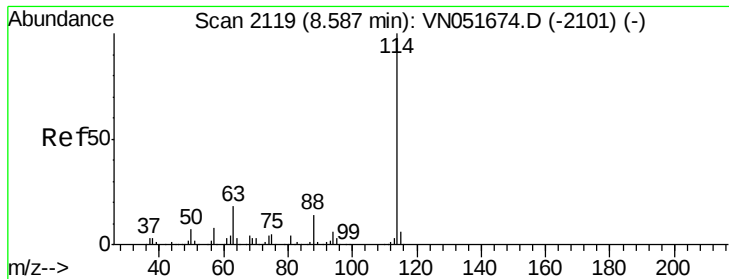
67 50.4 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

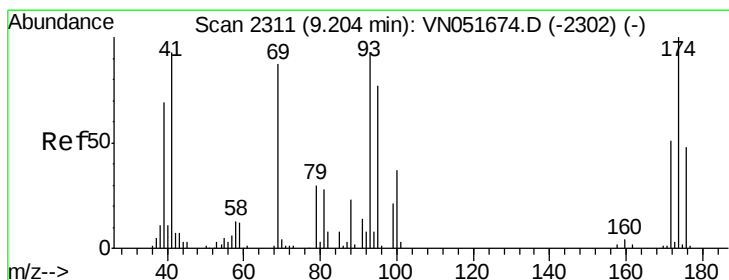
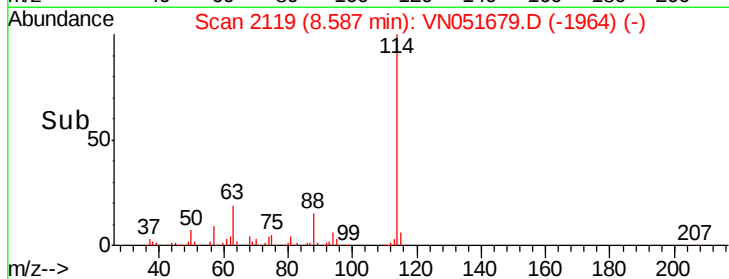
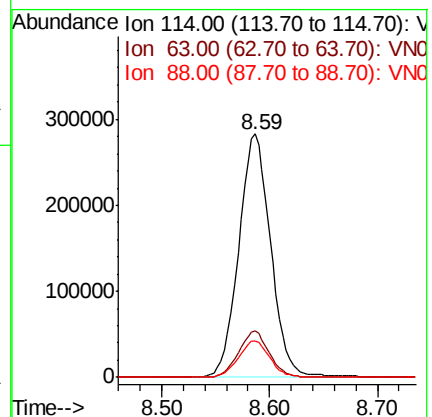
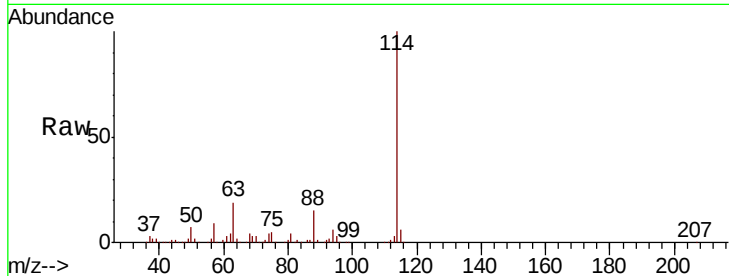




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051679.D
 Acq: 5 Oct 2018 11:54

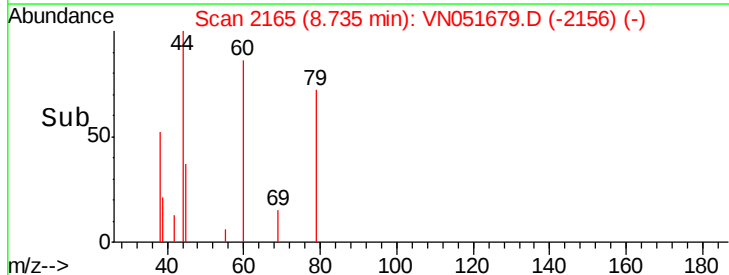
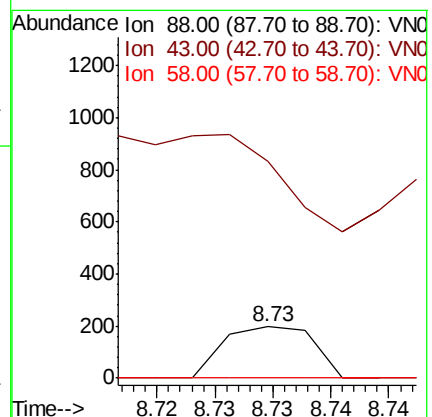
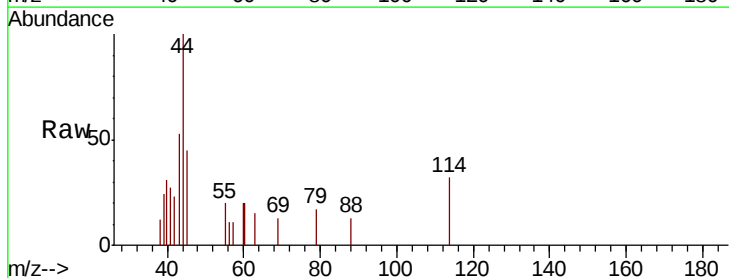
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBL01

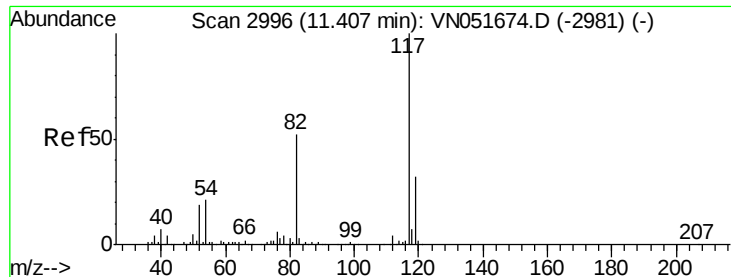
Tot Ion:114 Resp: 583185
 Ion Ratio Lower Upper
 114 100
 63 18.5 16.2 24.2
 88 14.7 12.2 18.4



#45
 1,4-Dioxane
 Concen: 1.928 ug/l
 RT: 8.73 min Scan# 2165
 Delta R.T. -0.47 min
 Lab File: VN051679.D
 Acq: 5 Oct 2018 11:54

Tgt Ion: 88 Resp: 107
 Ion Ratio Lower Upper
 88 100
 43 259.8 26.2 39.2#
 58 0.0 65.6 98.4#

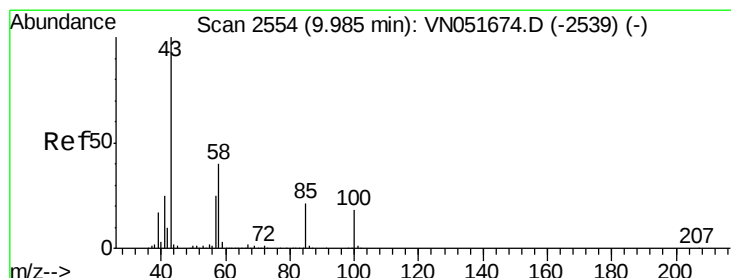
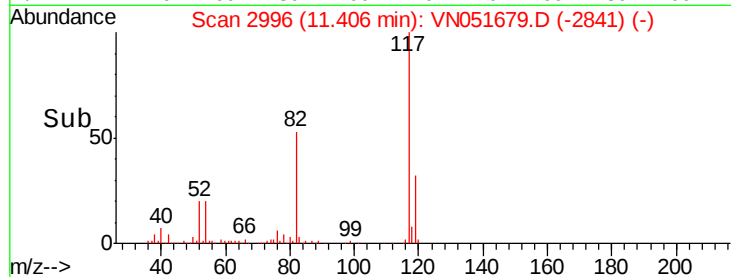
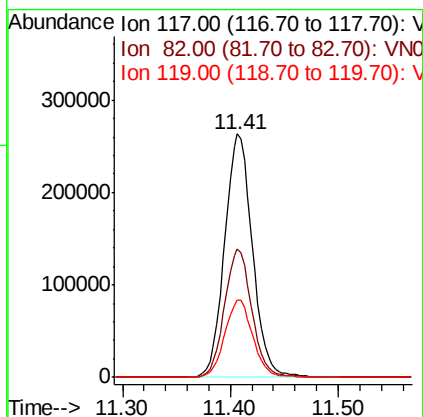
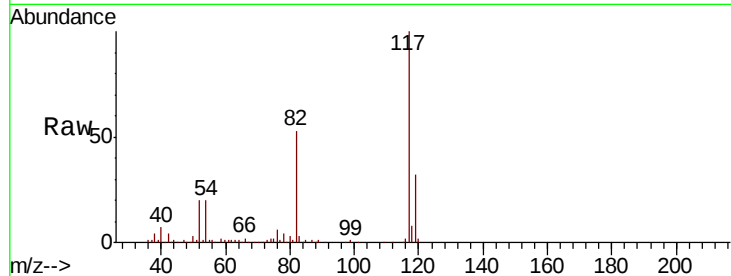




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051679.D
Acq: 5 Oct 2018 11:54

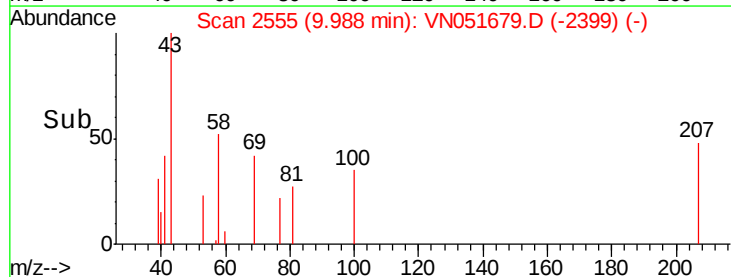
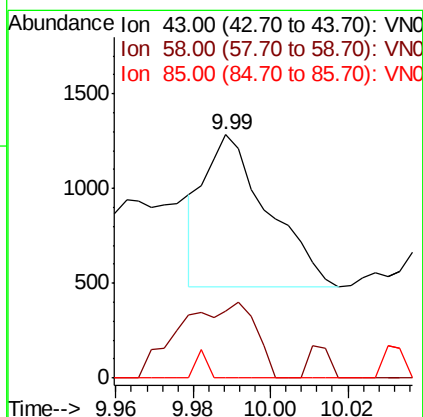
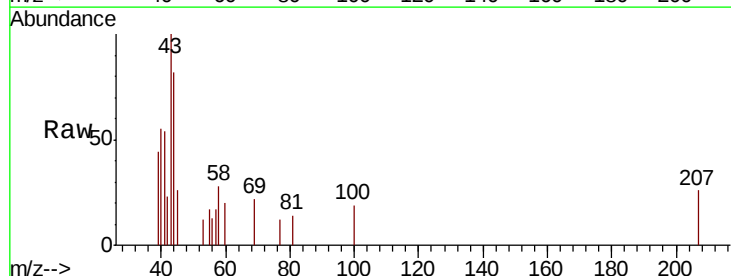
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBL01

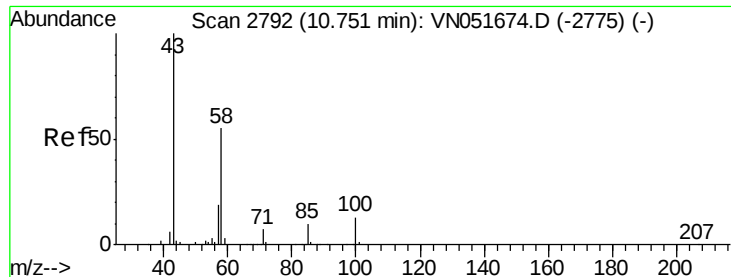
Tot Ion:117 Resp: 471399
Ion Ratio Lower Upper
117 100
82 52.0 44.1 66.1
119 32.0 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 0.237 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051679.D
Acq: 5 Oct 2018 11:54

Tgt Ion: 43 Resp: 919
Ion Ratio Lower Upper
43 100
58 26.3 29.3 43.9#
85 0.0 12.6 18.8#

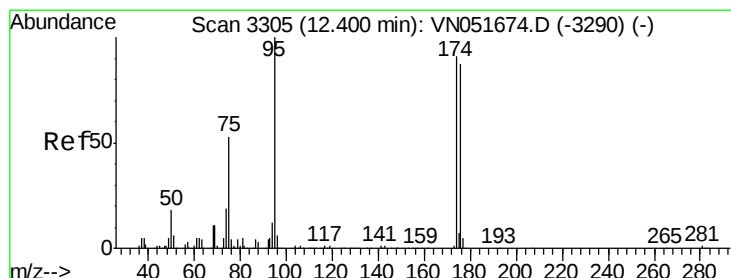
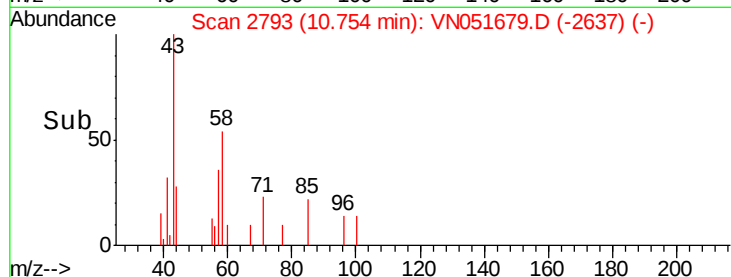
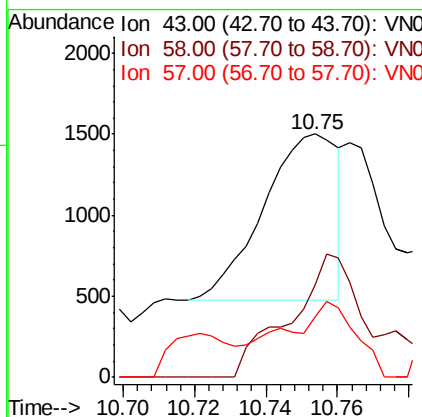
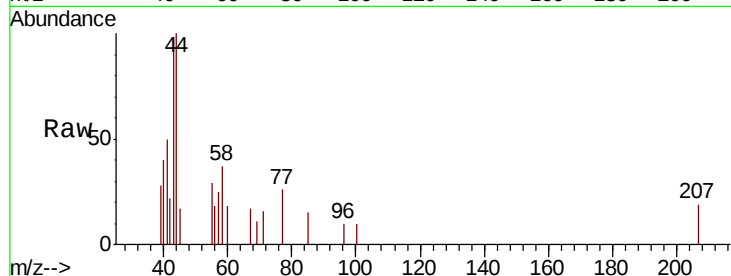




#59
2-Hexanone
Concen: 0.566 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051679.D
Acq: 5 Oct 2018 11:54

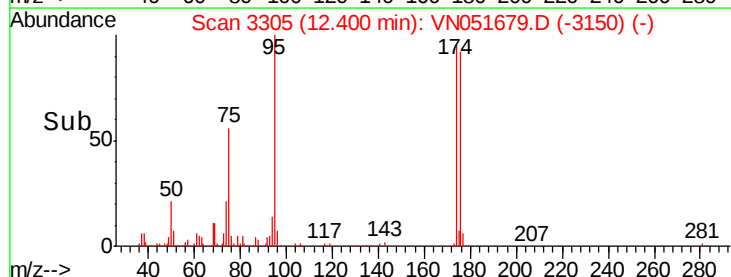
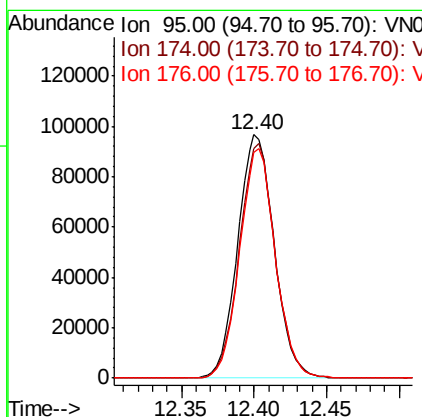
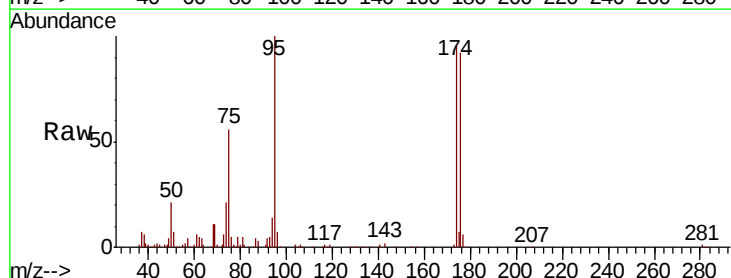
Instrument :
MSVOA_N
ClientSampleId :
VN1005WBL01

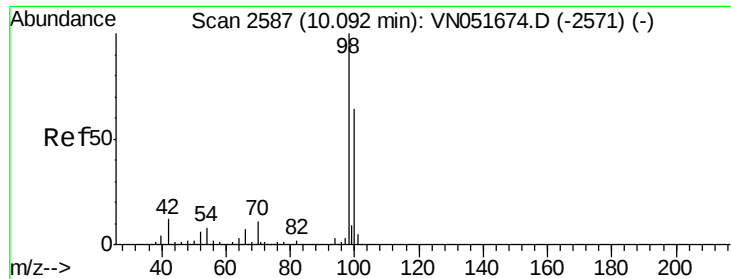
Tot Ion: 43 Resp: 1483
Ion Ratio Lower Upper
43 100
58 66.5 41.3 61.9#
57 25.8 13.4 20.0#



#60
4-Bromofluorobenzene
Concen: 0.566 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051679.D
Acq: 5 Oct 2018 11:54

Tgt Ion: 95 Resp: 169318
Ion Ratio Lower Upper
95 100
174 93.9 73.5 110.3
176 92.1 70.2 105.2





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

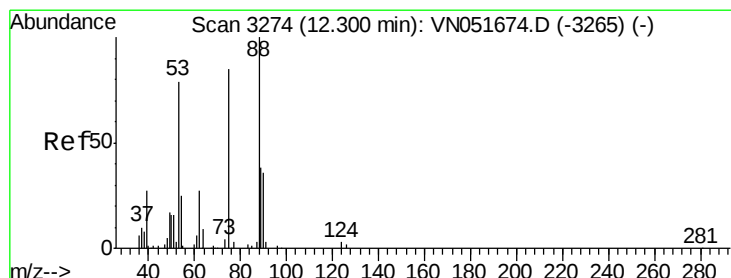
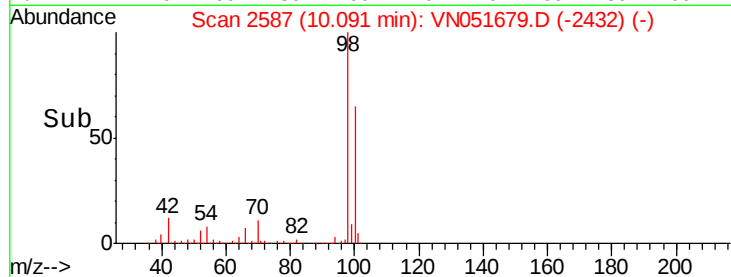
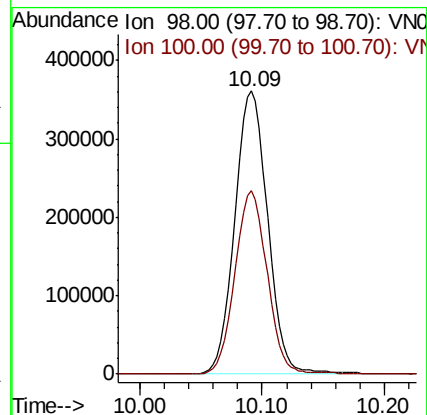
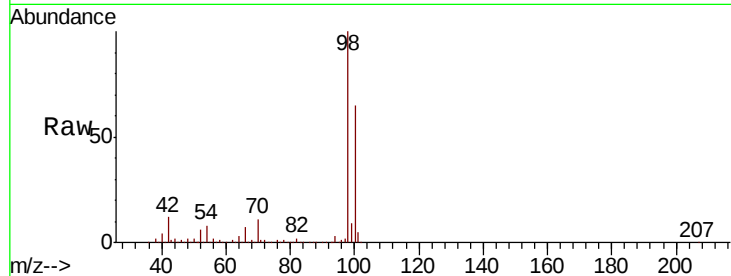
VN1005WBL01

Tot Ion: 98 Resp: 674711

Ion Ratio Lower Upper

98 100

100 63.6 50.8 76.2



#77

t-1,4-Dichloro-2-butene

Concen: 52.581 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

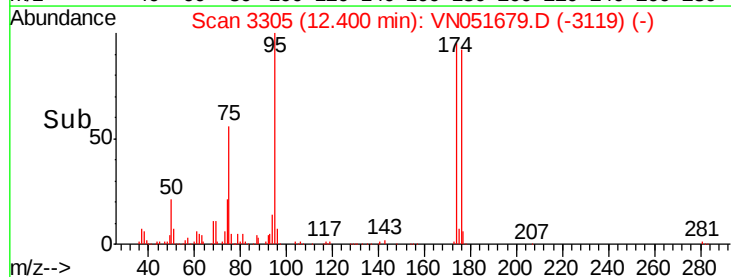
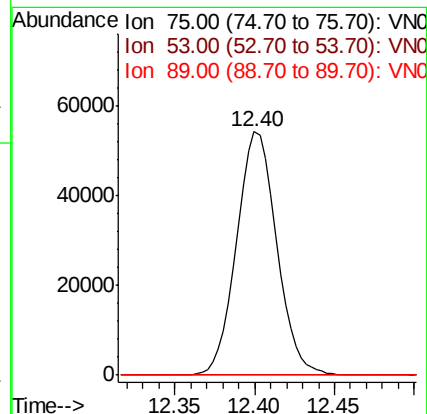
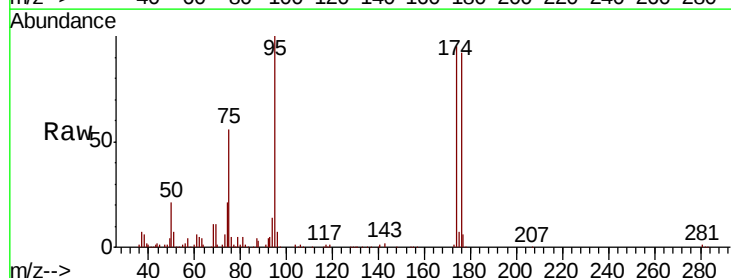
Tgt Ion: 75 Resp: 92994

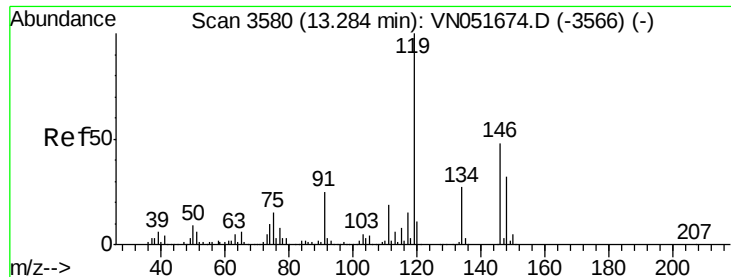
Ion Ratio Lower Upper

75 100

53 0.4 46.3 138.9#

89 0.0 24.6 73.8#

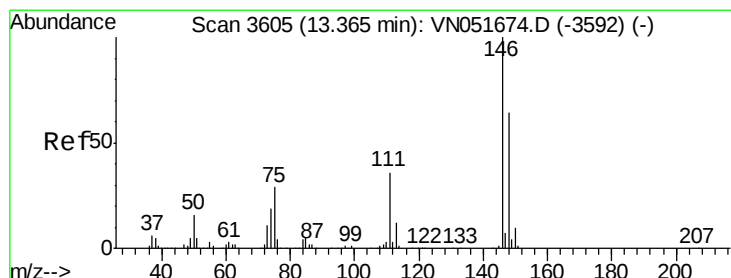
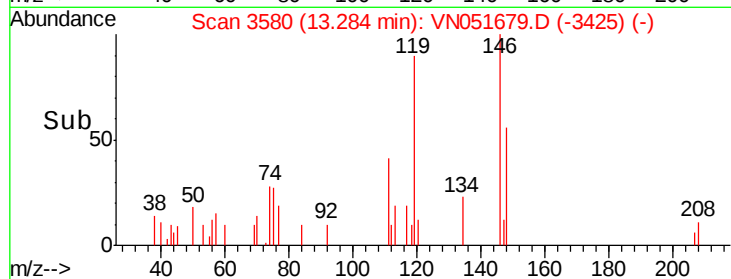
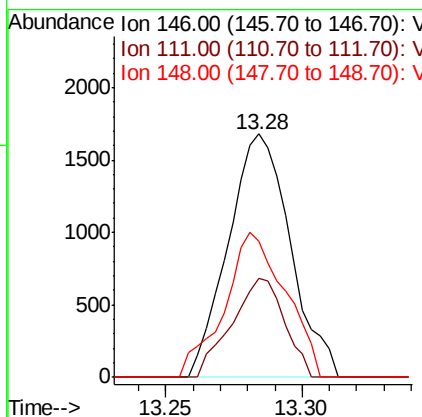
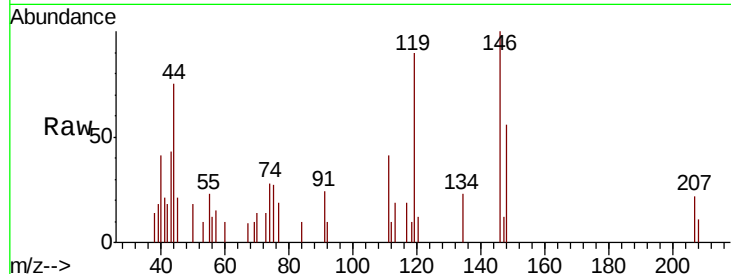




#83
 1,3-Dichlorobenzene
 Concen: 0.216 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.00 min
 Lab File: VN051679.D
 Acq: 5 Oct 2018 11:54

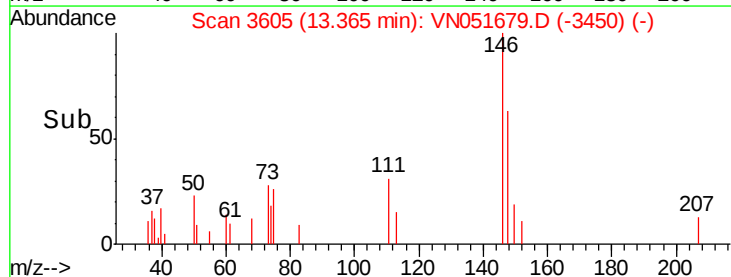
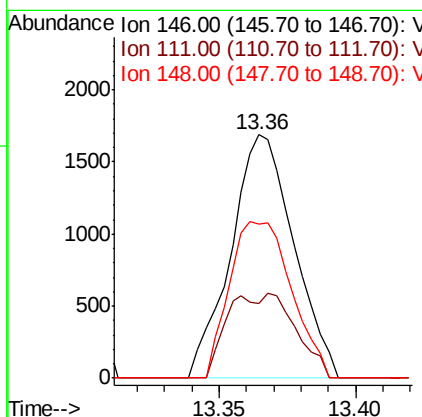
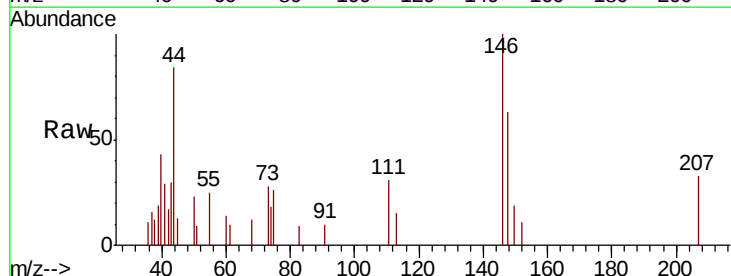
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBL01

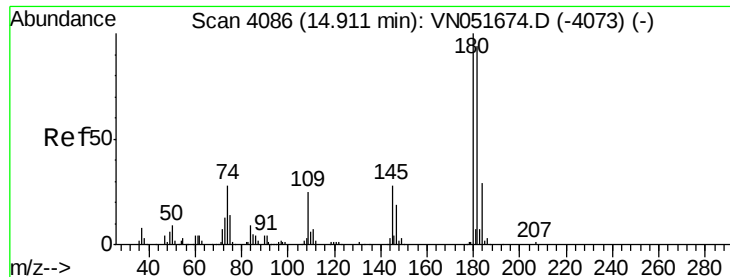
Tot Ion:146 Resp: 2649
 Ion Ratio Lower Upper
 146 100
 111 34.7 18.1 54.3
 148 58.7 31.3 93.8



#84
 1,4-Dichlorobenzene
 Concen: 0.231 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN051679.D
 Acq: 5 Oct 2018 11:54

Tgt Ion:146 Resp: 2698
 Ion Ratio Lower Upper
 146 100
 111 19.4 17.4 52.2
 148 63.5 32.8 98.3

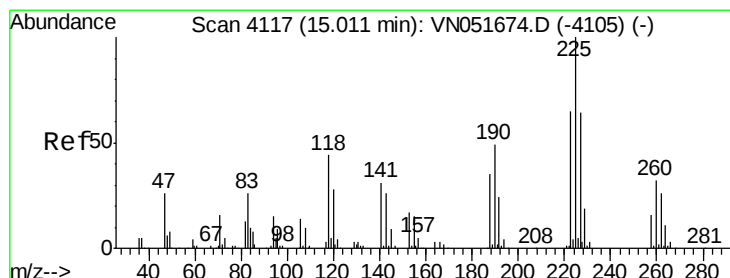
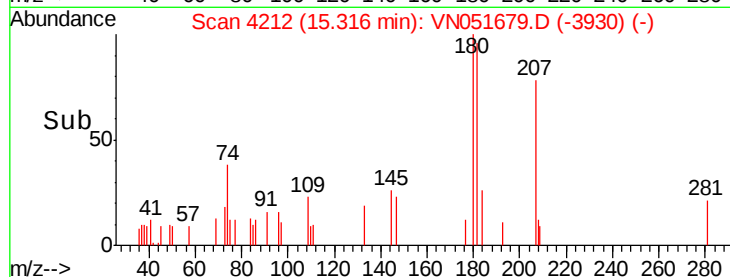
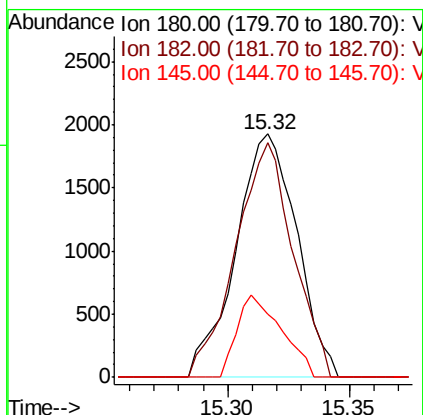
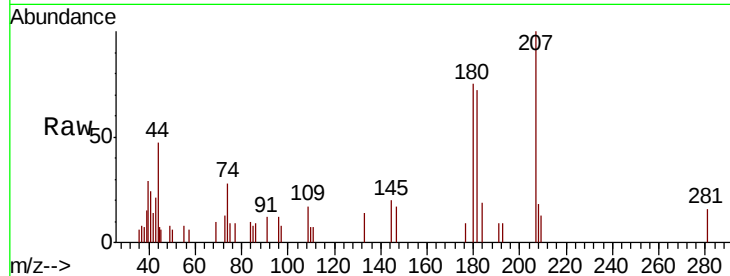




#89
 1,2,4-Trichlorobenzene
 Concen: 7.288 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.41 min
 Lab File: VN051679.D
 Acq: 5 Oct 2018 11:54

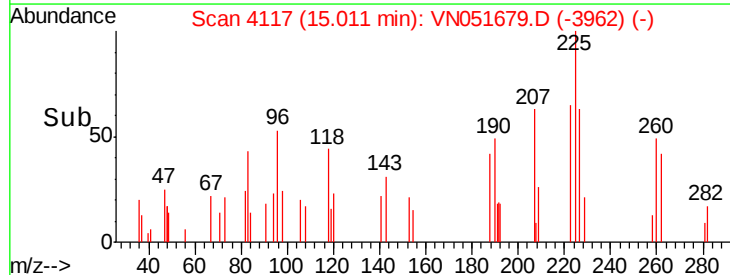
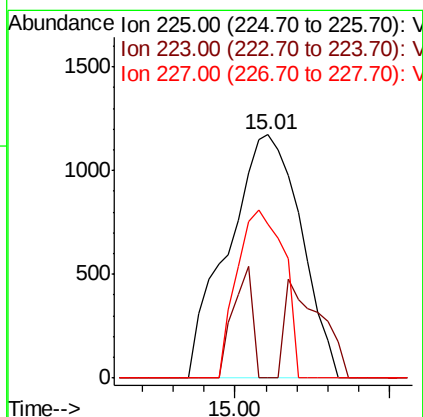
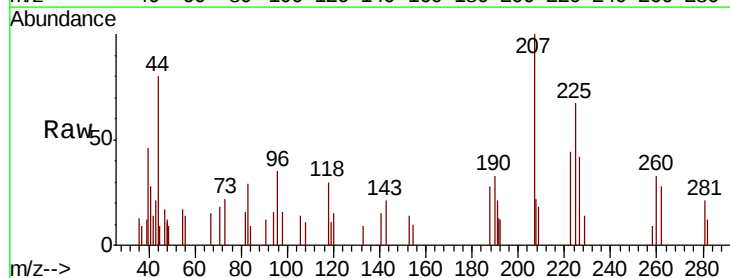
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1005WBL01

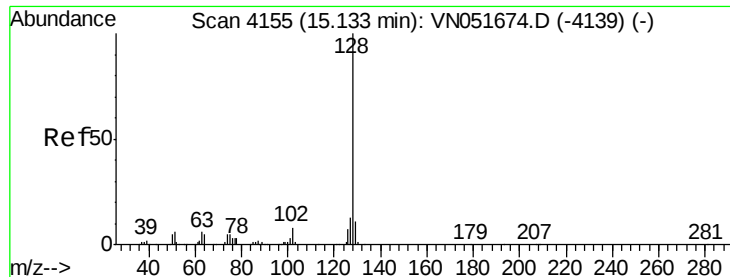
Tot Ion:180 Resp: 3337
 Ion Ratio Lower Upper
 180 100
 182 90.4 77.7 116.5
 145 24.7 23.4 35.2



#90
 Hexachlorobutadiene
 Concen: 0.525 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN051679.D
 Acq: 5 Oct 2018 11:54

Tgt Ion:225 Resp: 1916
 Ion Ratio Lower Upper
 225 100
 223 12.2 0.0 117.0
 227 44.5 0.0 127.0





#91

Naphthalene

Concen: 0.751 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

Instrument :

MSVOA_N

ClientSampleId :

VN1005WBL01

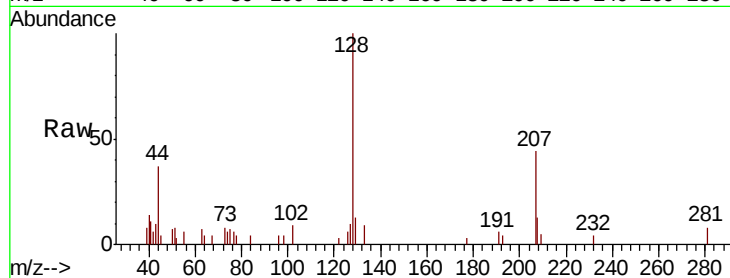
Tot Ion:128 Resp: 8505

Ion Ratio Lower Upper

128 100

127 11.5 10.1 15.1

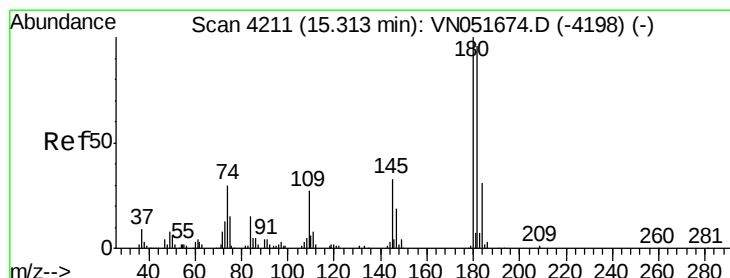
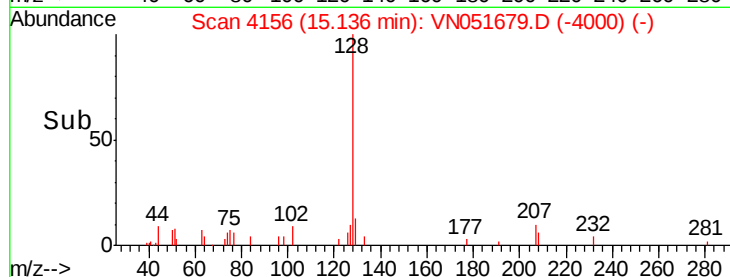
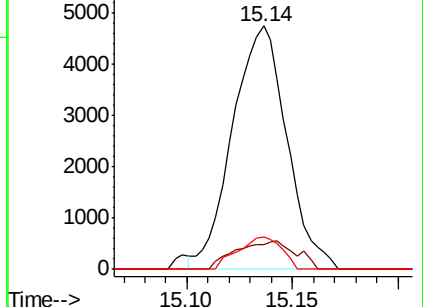
129 10.7 8.4 12.6



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: 0.645 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051679.D

Acq: 5 Oct 2018 11:54

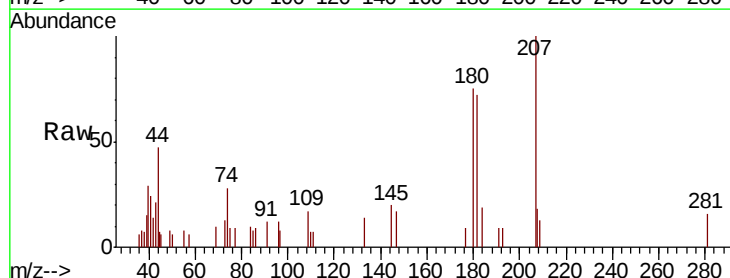
Tgt Ion:180 Resp: 3337

Ion Ratio Lower Upper

180 100

182 90.4 0.0 198.0

145 24.7 0.0 36.8



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

