

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090718\
 Data File : VN051044.D
 Acq On : 7 Sep 2018 10:00
 Operator : MD\SY
 Sample : J4817-01DL 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVDDL

Quant Time: Sep 07 14:14:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	132896	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	660417	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	578794	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	258297	30.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.53%
60) 4-Bromofluorobenzene	12.40	95	196204	22.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	76.00%
63) Toluene-d8	10.09	98	790386	29.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.60%

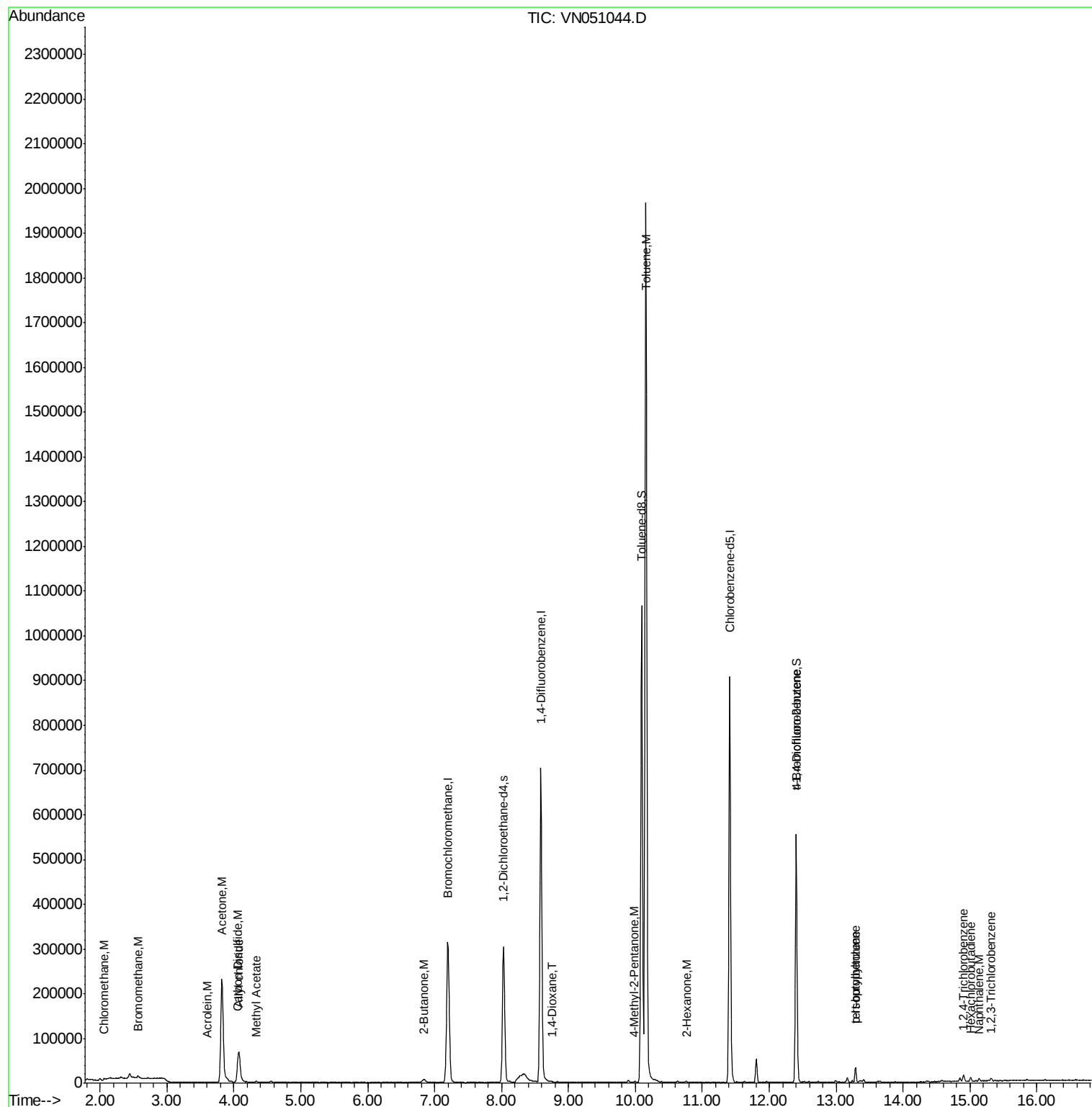
Target Compounds					Ovalue
3) Chloromethane	2.06	50	2702	0.277 ug/l	99
5) Bromomethane	2.57	94	2935	0.500 ug/l	88
12) Methyl Acetate	4.34	43	1766	0.213 ug/l #	52
13) Acrolein	3.60	56	170	0.925 ug/l #	13
15) Acetone	3.82	58	131977	183.706 ug/l	94
16) Carbon Disulfide	4.05	76	5073	0.235 ug/l	100
17) Allyl chloride	4.07	41	12562	1.112 ug/l	79
30) 2-Butanone	6.85	43	6036	1.984 ug/l #	65
45) 1,4-Dioxane	8.77	88	104	1.273 ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	2258	0.341 ug/l #	83
59) 2-Hexanone	10.76	43	2389	0.552 ug/l #	75
62) Toluene	10.16	91	1600870	49.577 ug/l	100
77) t-1,4-Dichloro-2-butene	12.40	75	91304	41.989 ug/l #	13
79) tert-butylbenzene	13.29	119	15464	0.667 ug/l	63
82) p-Isopropyltoluene	13.29	119	15464	0.590 ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	2561	0.402 ug/l	85
90) Hexachlorobutadiene	15.01	225	1605	0.371 ug/l	89
91) Naphthalene	15.14	128	5224	8.841 ug/l #	92
92) 1,2,3-Trichlorobenzene	15.32	180	2750	0.430 ug/l	95

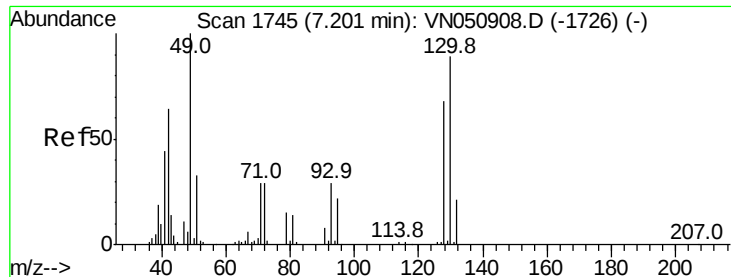
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN090718\
Data File : VN051044.D
Acq On : 7 Sep 2018 10:00
Operator : MD\SY
Sample : J4817-01DL 10X
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVDDL

Quant Time: Sep 07 14:14:03 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 29 01:38:44 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVDDL

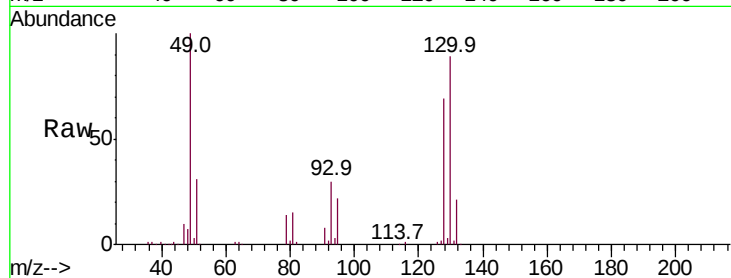
Tot Ion:128 Resp: 132896

Ion Ratio Lower Upper

128 100

49 147.8 0.0 380.3

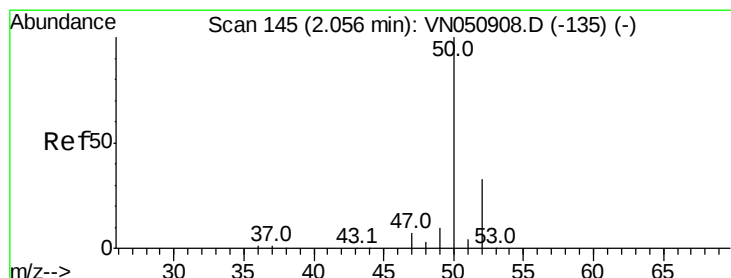
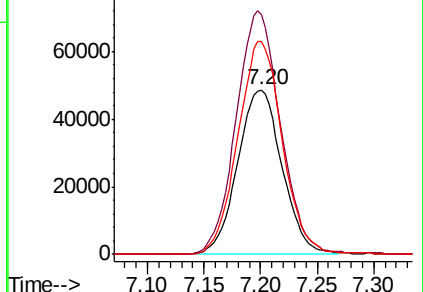
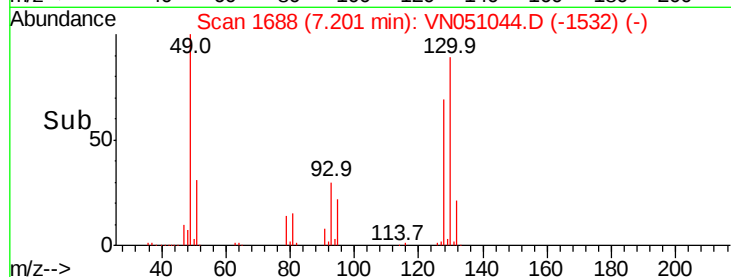
130 129.3 0.0 325.3



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



#3

Chloromethane

Concen: 0.277 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051044.D

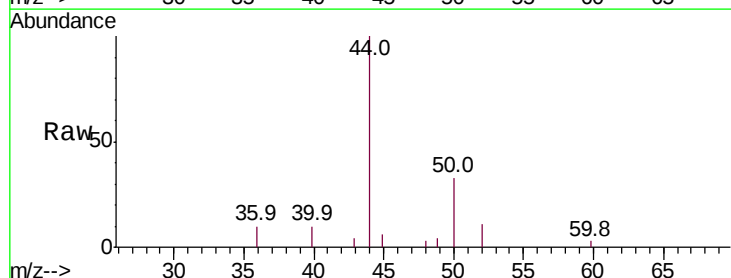
Acq: 7 Sep 2018 10:00

Tgt Ion: 50 Resp: 2702

Ion Ratio Lower Upper

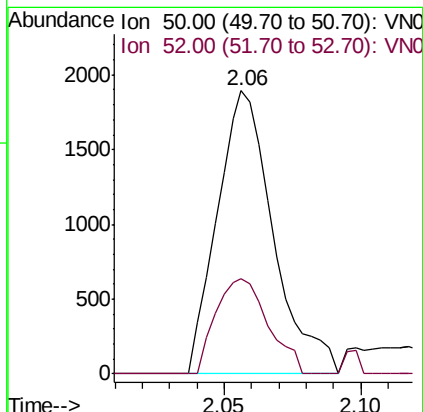
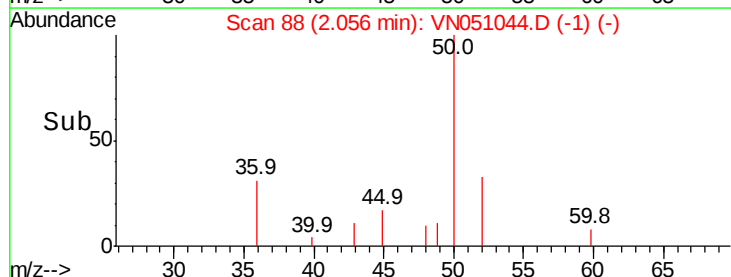
50 100

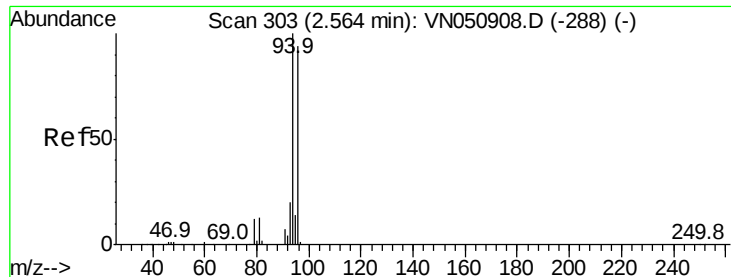
52 33.5 26.2 39.4



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.500 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

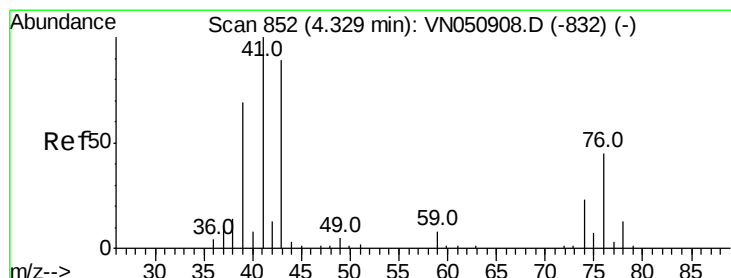
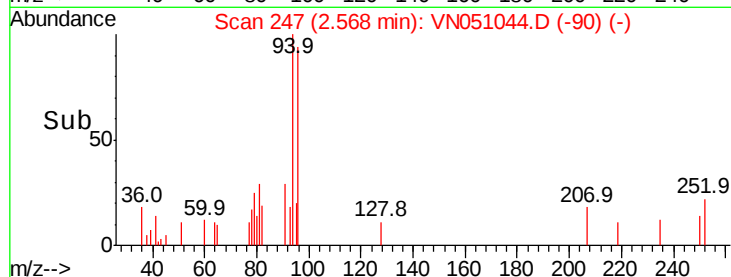
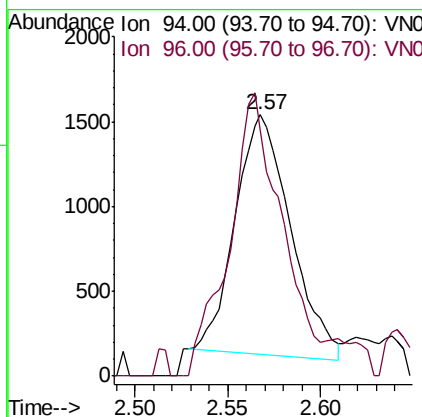
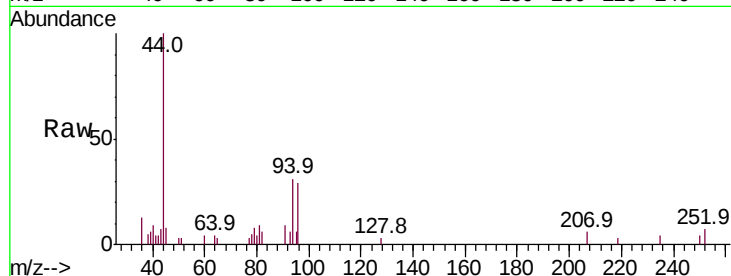
001M-WILLETS-PT-BLVDDL

Tot Ion: 94 Resp: 2935

Ion Ratio Lower Upper

94 100

96 105.2 74.9 112.3



#12

Methyl Acetate

Concen: 0.213 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051044.D

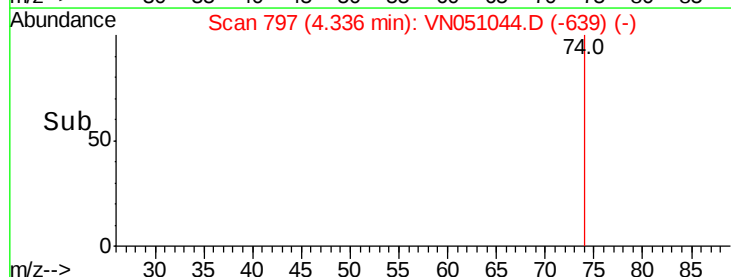
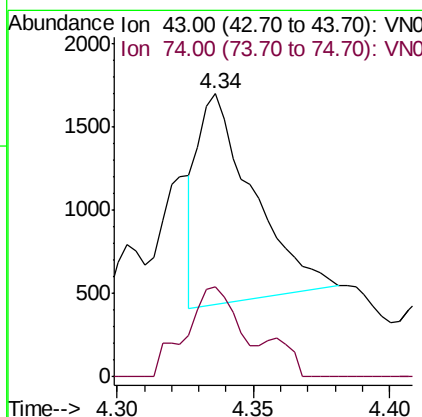
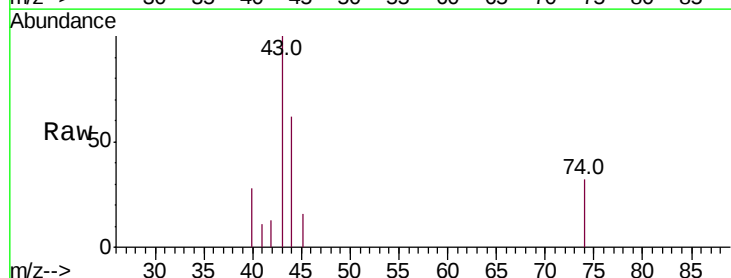
Acq: 7 Sep 2018 10:00

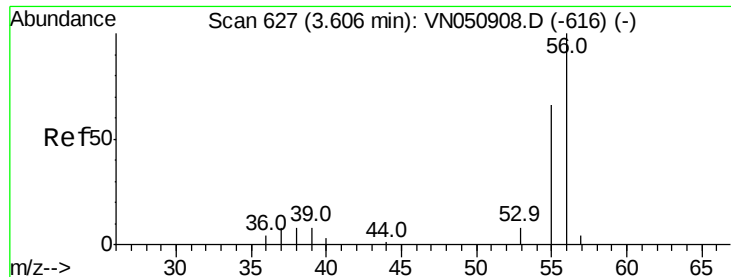
Tgt Ion: 43 Resp: 1766

Ion Ratio Lower Upper

43 100

74 50.2 20.6 31.0#





#13

Acrolein

Concen: 0.925 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

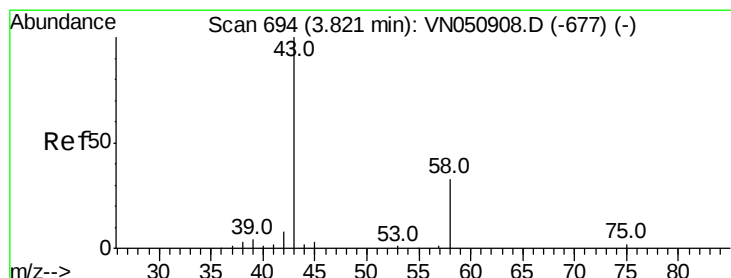
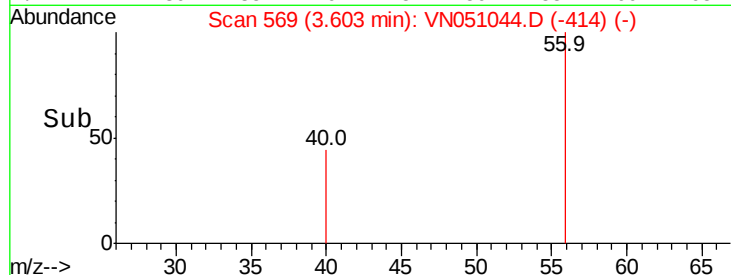
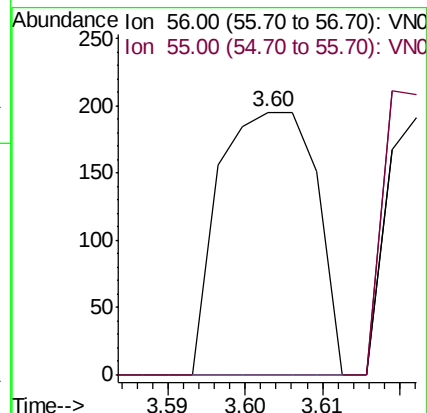
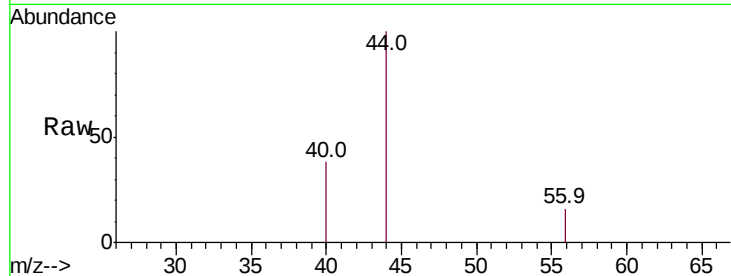
001M-WILLETS-PT-BLVDDL

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

56 100

55 0.0 59.1 88.7#



#15

Acetone

Concen: 183.706 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051044.D

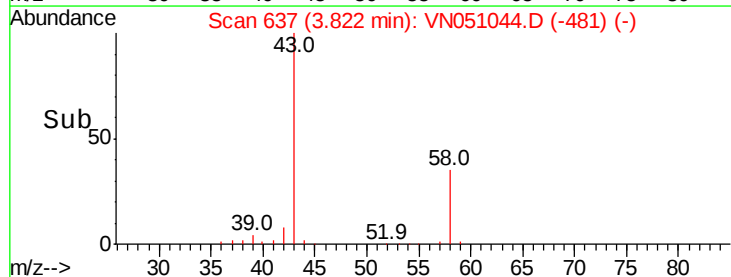
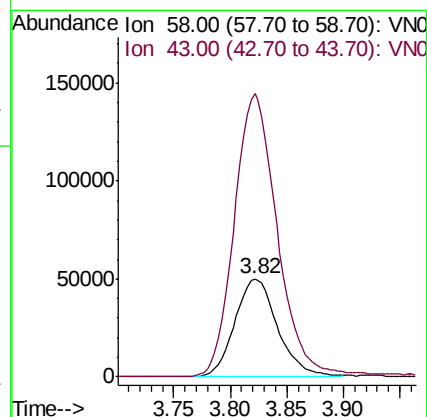
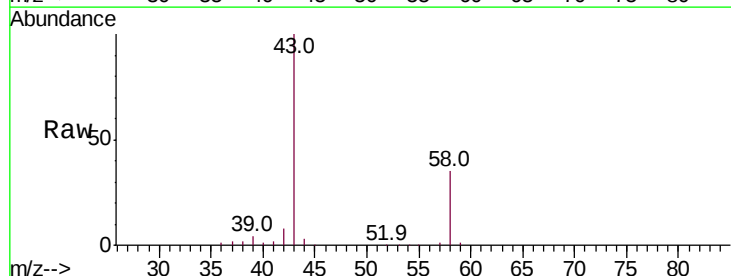
Acq: 7 Sep 2018 10:00

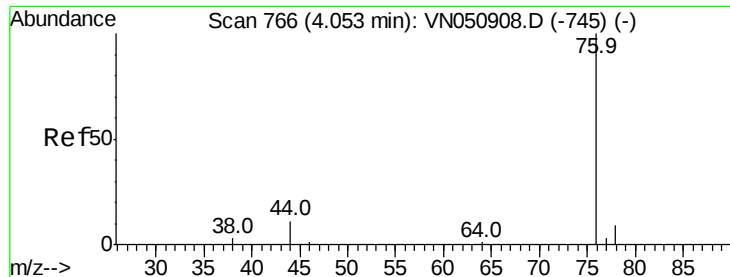
Tgt Ion: 58 Resp: 131977

Ion Ratio Lower Upper

58 100

43 287.3 239.4 359.0





#16

Carbon Disulfide

Concen: 0.235 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

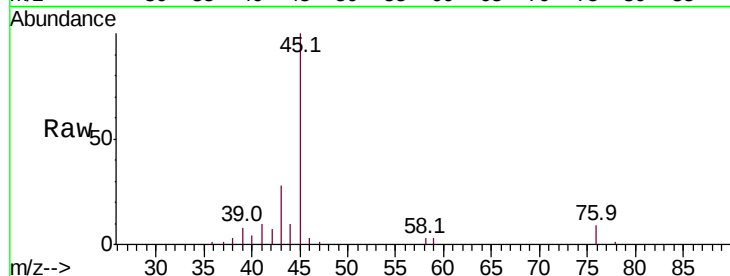
001M-WILLETS-PT-BLVDDL

Tot Ion: 76 Resp: 5073

Ion Ratio Lower Upper

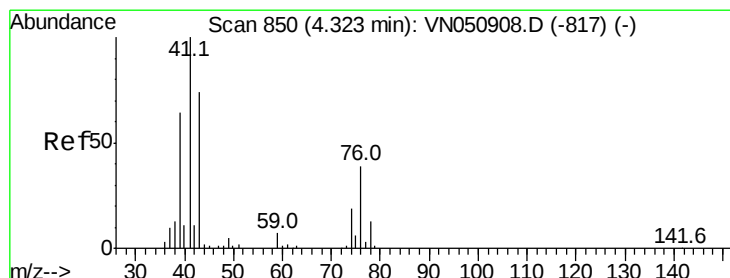
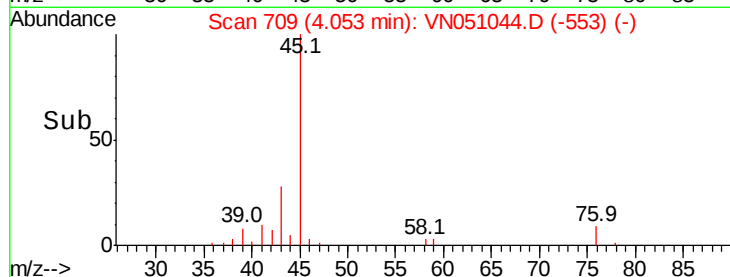
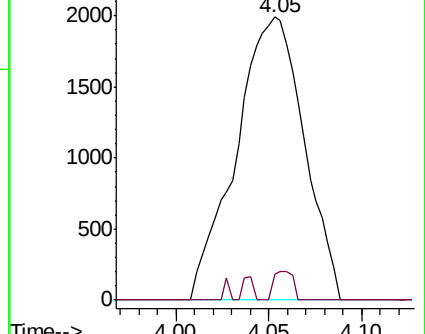
76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0



#17

Allyl chloride

Concen: 1.112 ug/l

RT: 4.07 min Scan# 715

Delta R.T. -0.25 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

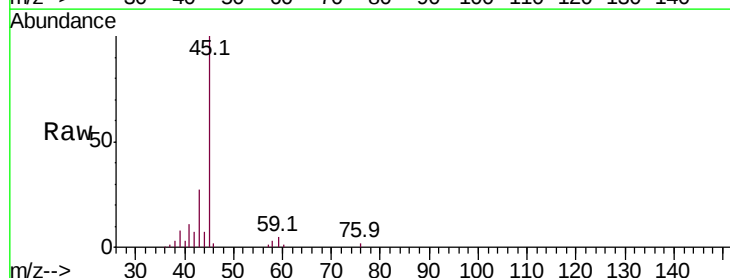
Tgt Ion: 41 Resp: 12562

Ion Ratio Lower Upper

41 100

39 77.3 32.2 96.6

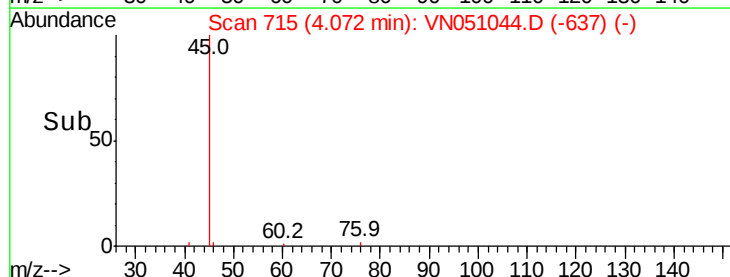
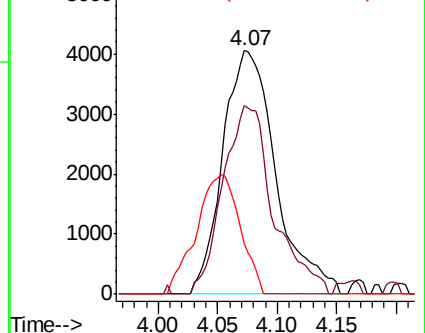
76 20.8 19.6 58.7

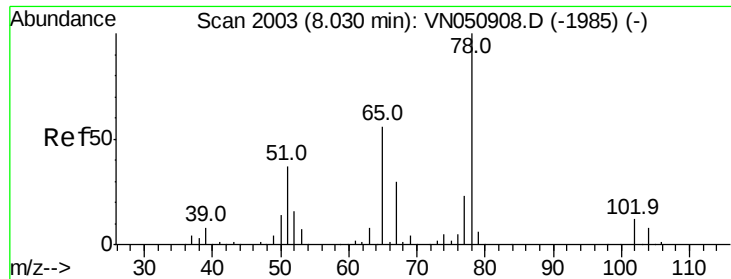


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 76.00 (75.70 to 76.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 30.457 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

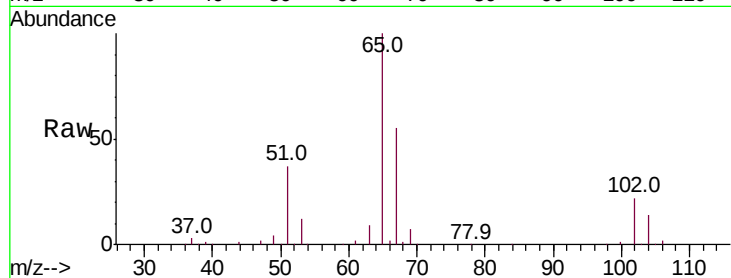
001M-WILLETS-PT-BLVDDL

Tot Ion: 65 Resp: 258297

Ion Ratio Lower Upper

65 100

67 53.9 43.7 65.5



Abundance Ion 65.00 (64.70 to 65.70): VN050908.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050908.D (-1985) (-)

8.03

120000

100000

80000

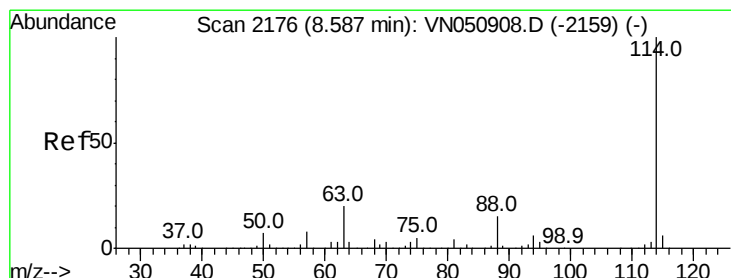
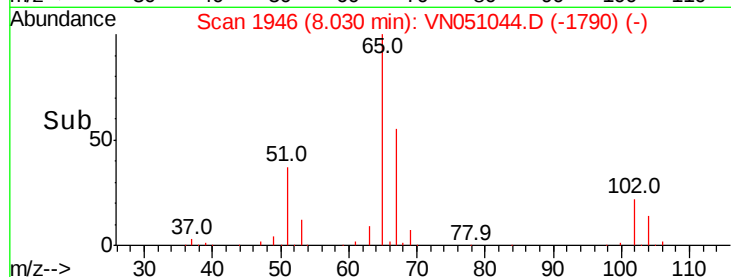
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

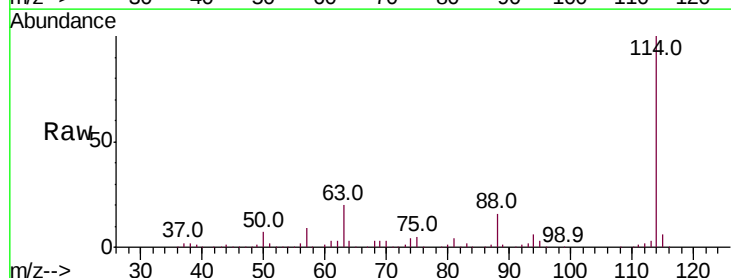
Tgt Ion: 114 Resp: 660417

Ion Ratio Lower Upper

114 100

63 19.3 15.6 23.4

88 15.1 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN050908.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050908.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050908.D (-2159) (-)

8.59

400000

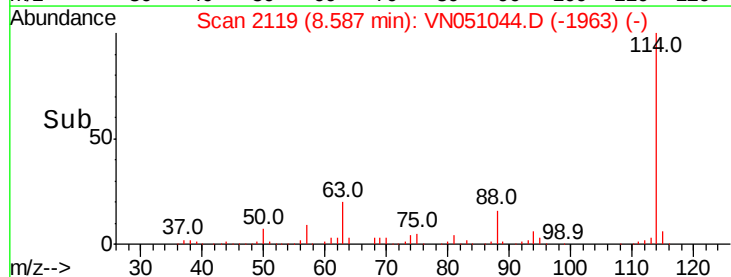
300000

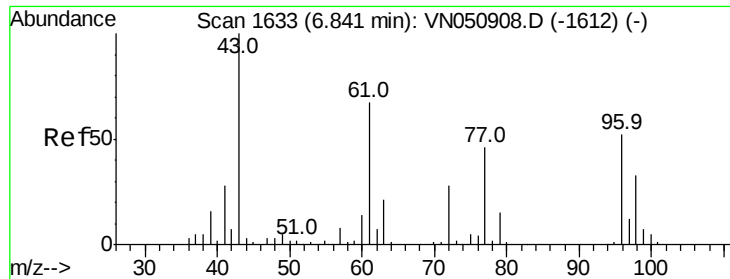
200000

100000

0

Time-->

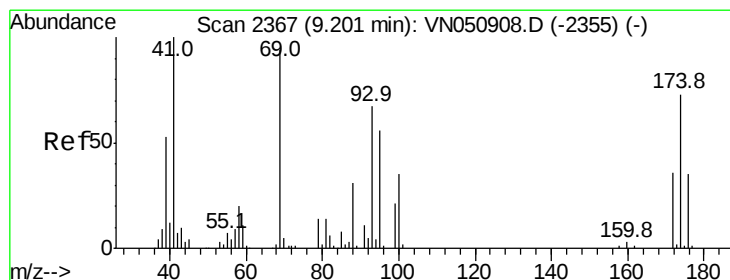
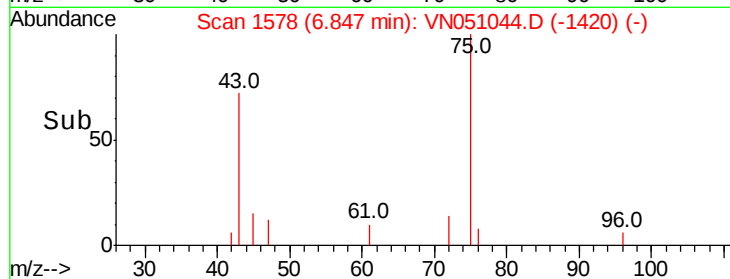
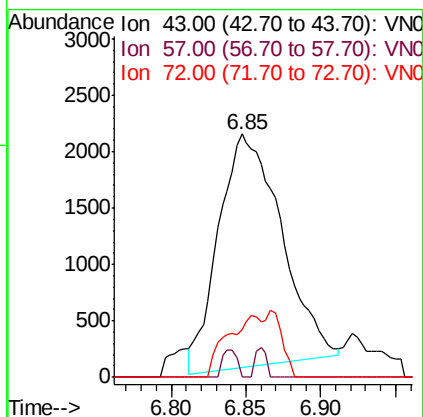
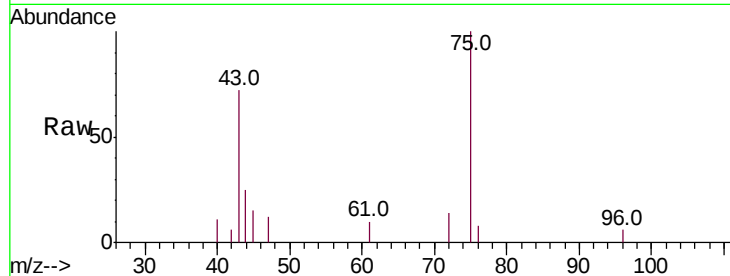




#30
 2-Butanone
 Concen: 1.984 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VN051044.D
 Acq: 7 Sep 2018 10:00

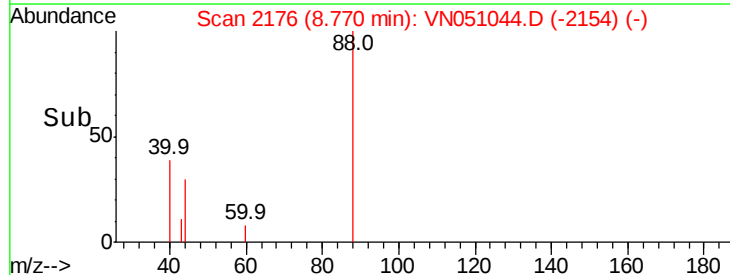
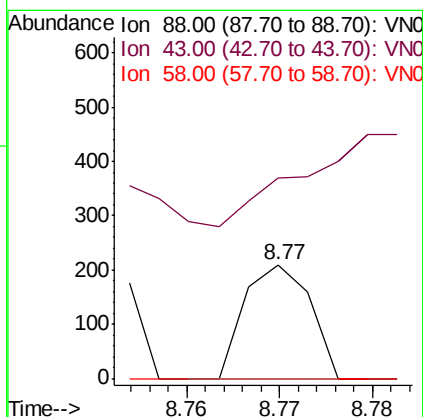
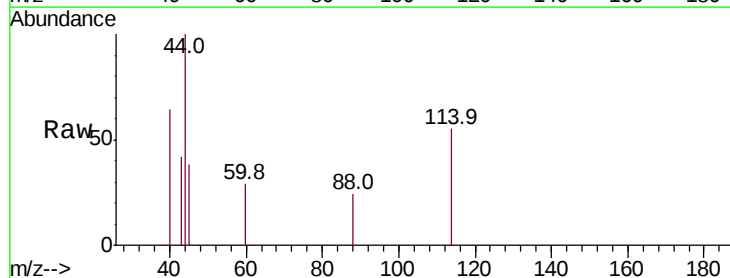
Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVDDL

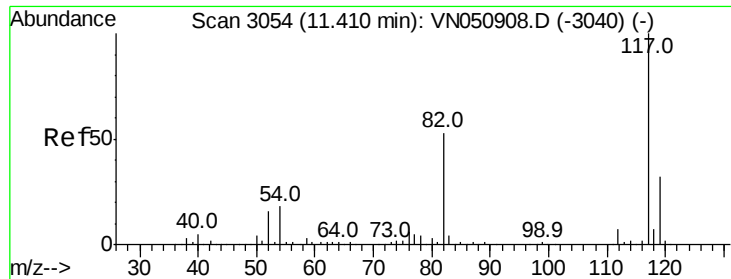
Tot Ion: 43 Resp: 6036
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.9 10.3#
 72 8.0 22.8 34.2#



#45
 1,4-Dioxane
 Concen: 1.273 ug/l
 RT: 8.77 min Scan# 2176
 Delta R.T. -0.43 min
 Lab File: VN051044.D
 Acq: 7 Sep 2018 10:00

Tgt Ion: 88 Resp: 104
 Ion Ratio Lower Upper
 88 100
 43 179.8 23.5 35.3#
 58 0.0 55.2 82.8#

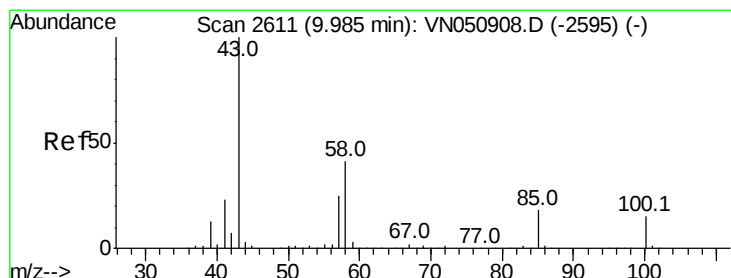
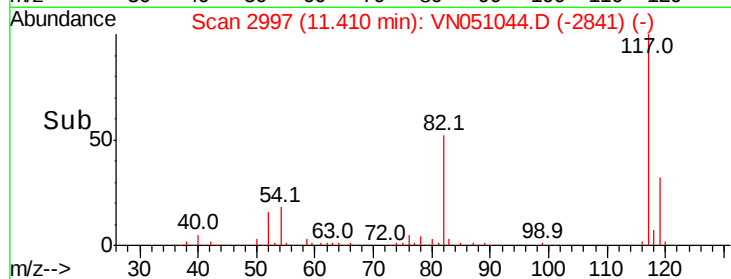
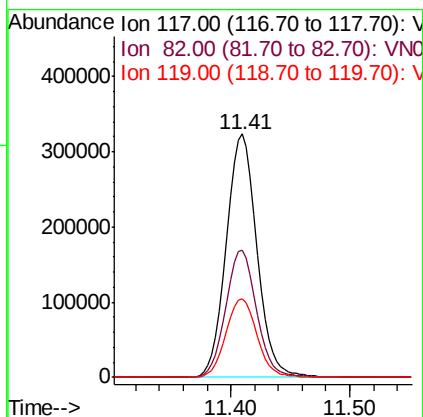
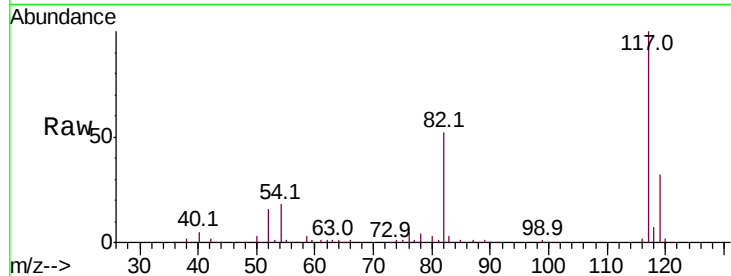




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051044.D
Acq: 7 Sep 2018 10:00

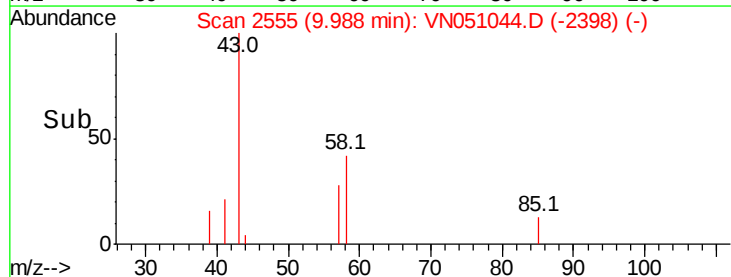
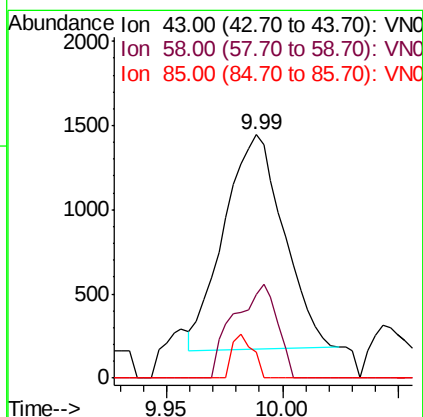
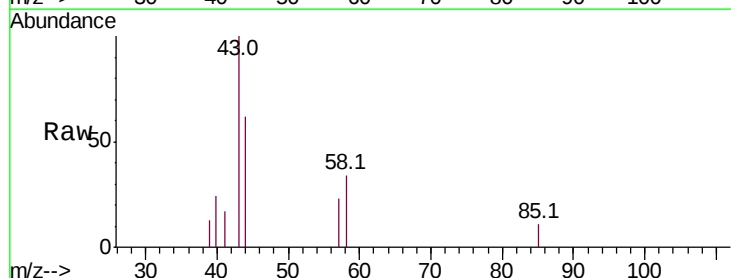
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVDDL

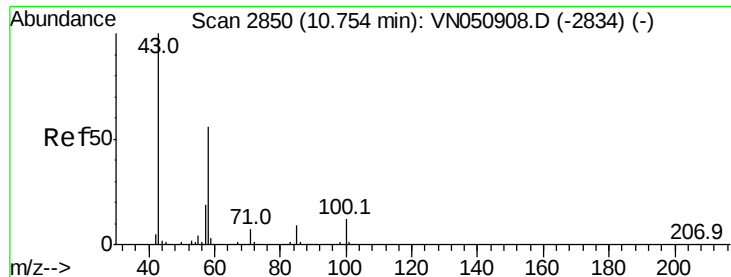
Tot Ion:117 Resp: 578794
Ion Ratio Lower Upper
117 100
82 52.7 42.6 64.0
119 32.6 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.341 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051044.D
Acq: 7 Sep 2018 10:00

Tgt Ion: 43 Resp: 2258
Ion Ratio Lower Upper
43 100
58 32.1 32.3 48.5#
85 7.0 14.9 22.3#

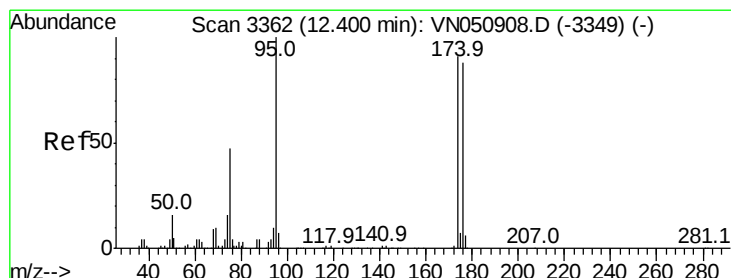
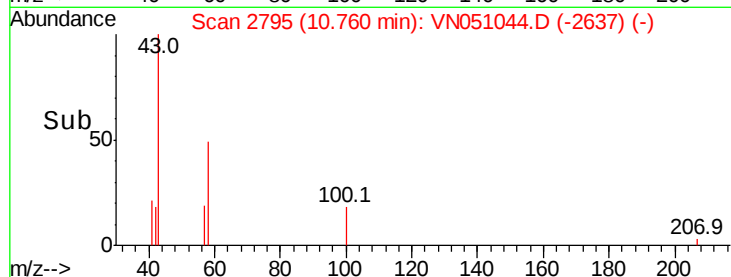
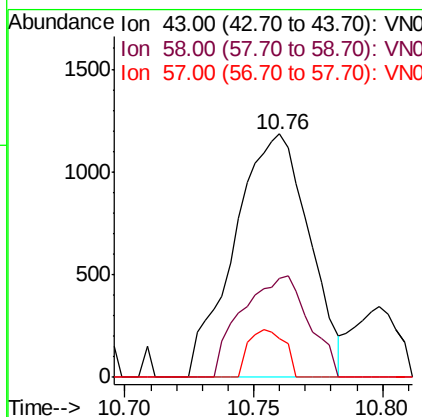
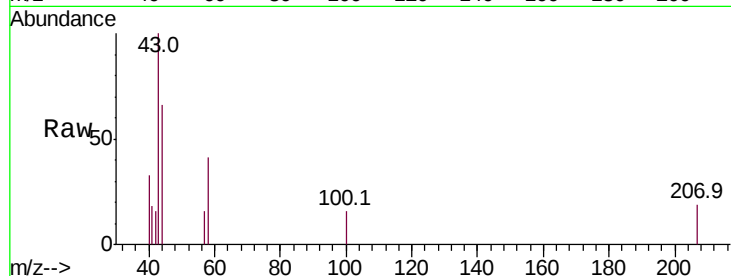




#59
2-Hexanone
Concen: 0.552 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN051044.D
Acq: 7 Sep 2018 10:00

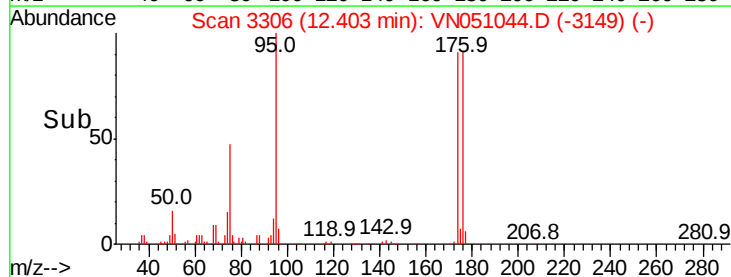
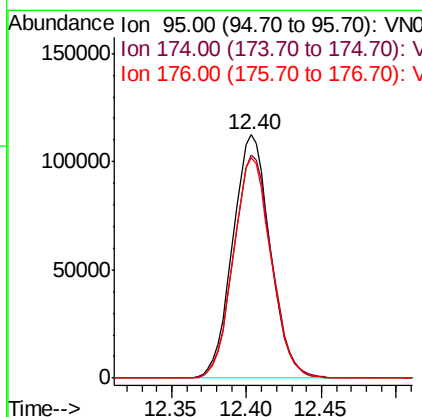
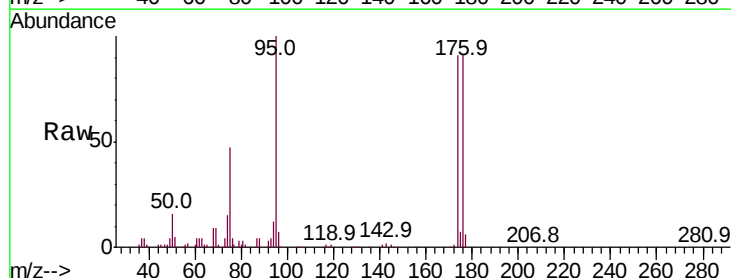
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVDDL

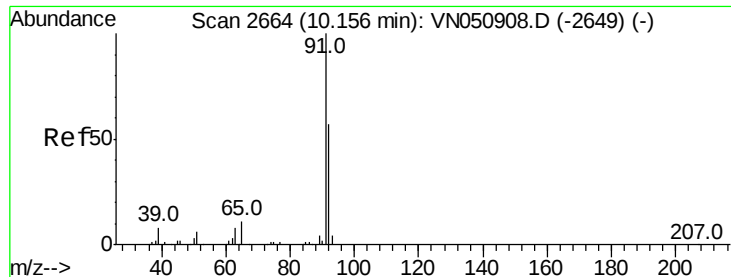
Tot Ion: 43 Resp: 2389
Ion Ratio Lower Upper
43 100
58 37.3 45.5 68.3#
57 9.5 15.2 22.8#



#60
4-Bromofluorobenzene
Concen: 22.796 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051044.D
Acq: 7 Sep 2018 10:00

Tgt Ion: 95 Resp: 196204
Ion Ratio Lower Upper
95 100
174 92.9 74.6 112.0
176 90.9 71.5 107.3





#62

Toluene

Concen: 49.577 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

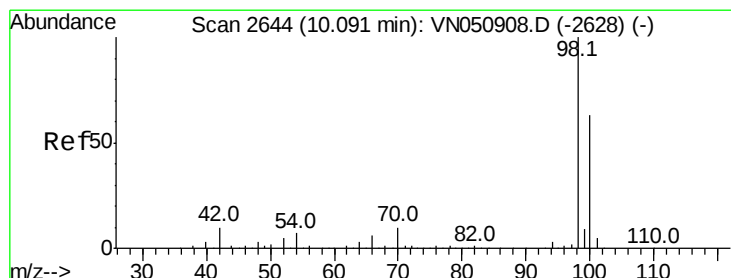
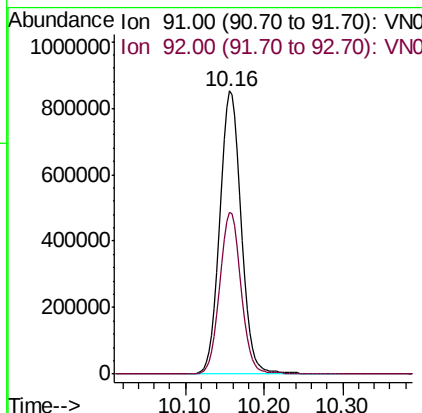
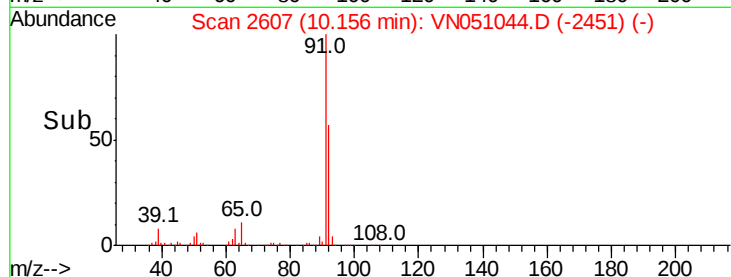
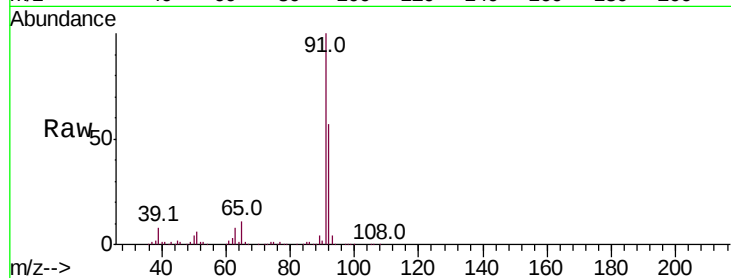
001M-WILLETS-PT-BLVDDL

Tot Ion: 91 Resp: 1600870

Ion Ratio Lower Upper

91 100

92 57.1 45.8 68.8



#63

Toluene-d8

Concen: 29.283 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051044.D

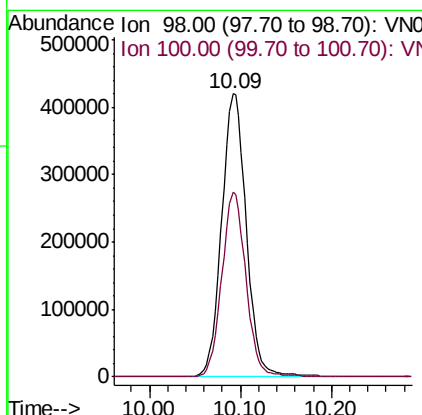
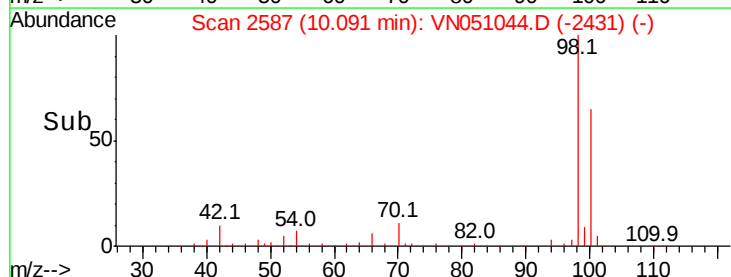
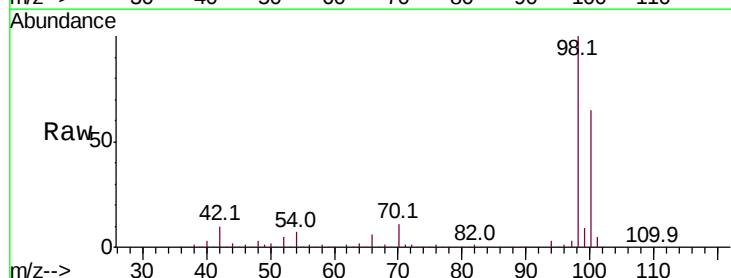
Acq: 7 Sep 2018 10:00

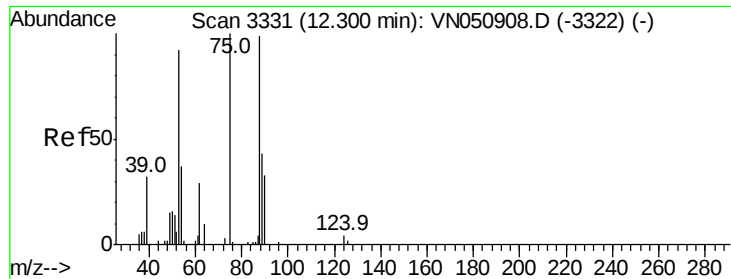
Tgt Ion: 98 Resp: 790386

Ion Ratio Lower Upper

98 100

100 63.9 50.6 75.8





#77

t-1,4-Dichloro-2-butene

Concen: 41.989 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVDDL

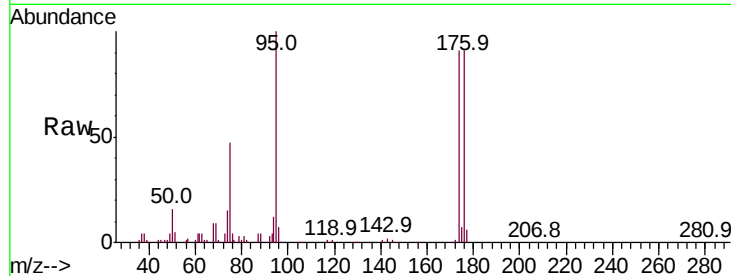
Tot Ion: 75 Resp: 91304

Ion Ratio Lower Upper

75 100

53 0.0 45.5 136.4#

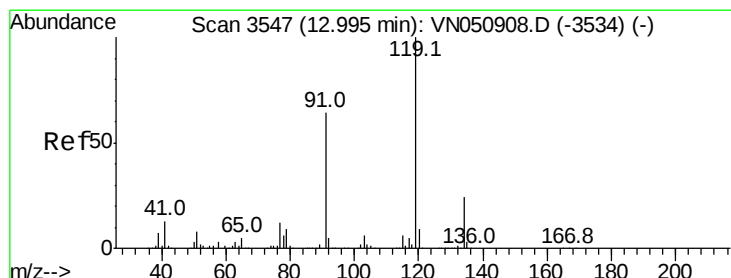
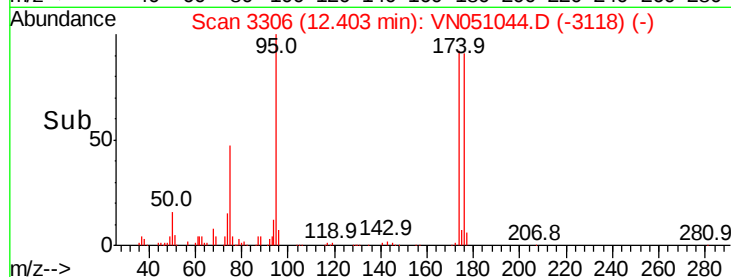
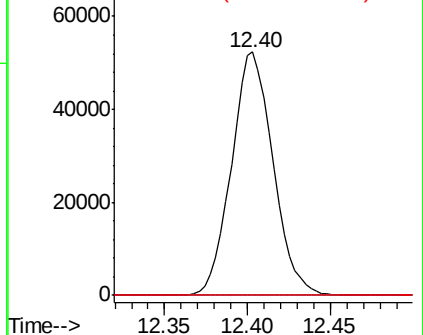
89 0.0 21.9 65.8#



Abundance Ion 75.00 (74.70 to 75.70): VN050908.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050908.D (-3322) (-)

Ion 89.00 (88.70 to 89.70): VN050908.D (-3322) (-)



#79

tert-butylbenzene

Concen: 0.667 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.30 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

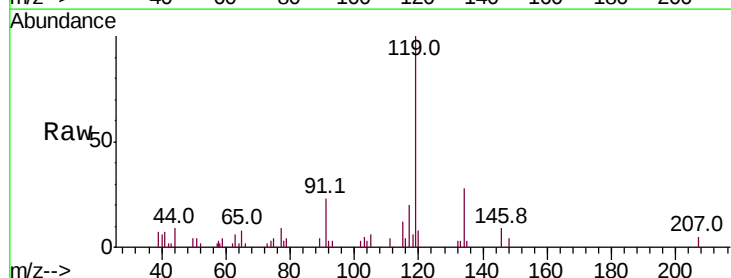
Tgt Ion: 119 Resp: 15464

Ion Ratio Lower Upper

119 100

91 25.4 0.0 125.6

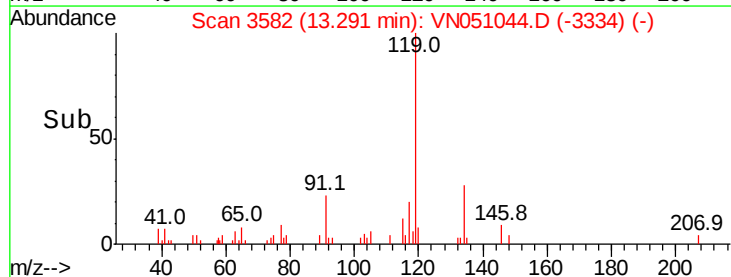
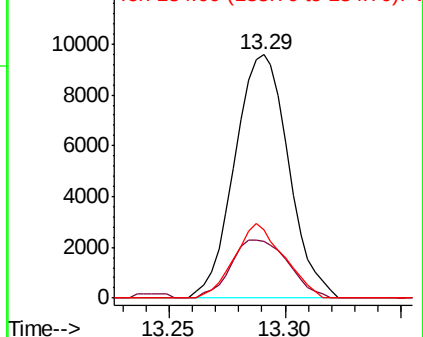
134 28.1 0.0 48.4

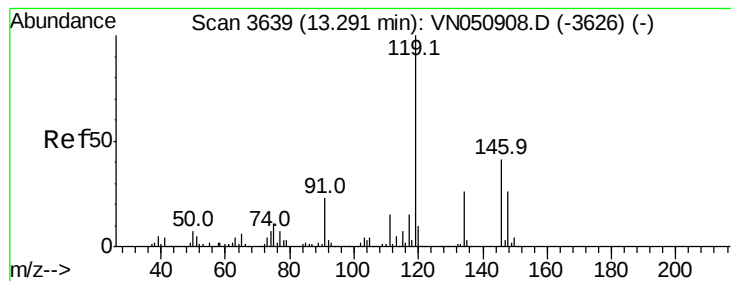


Abundance Ion 119.00 (118.70 to 119.70): VN050908.D (-3534) (-)

Ion 91.00 (90.70 to 91.70): VN050908.D (-3534) (-)

Ion 134.00 (133.70 to 134.70): VN050908.D (-3534) (-)





#82

p-Isopropyltoluene

Concen: 0.590 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVDDL

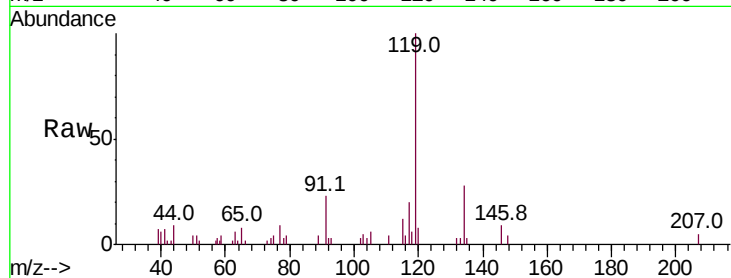
Tot Ion:119 Resp: 15464

Ion Ratio Lower Upper

119 100

134 28.1 0.0 53.2

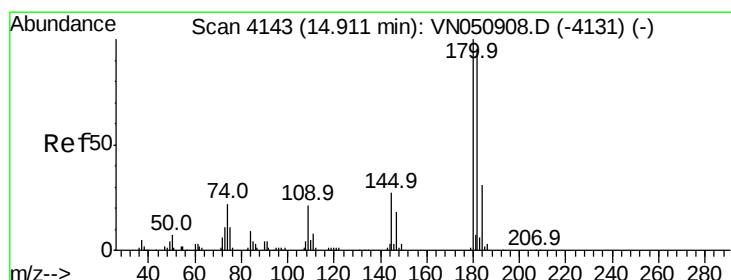
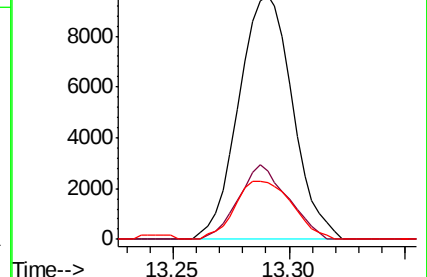
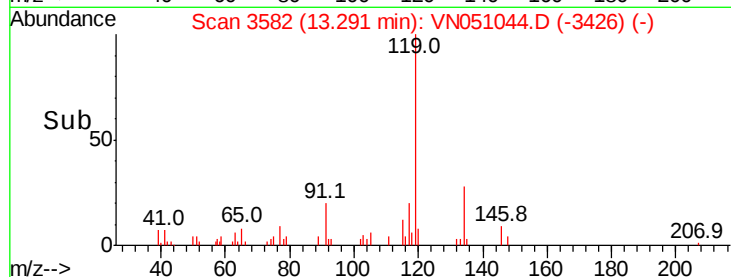
91 25.4 0.0 46.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



#89

1,2,4-Trichlorobenzene

Concen: 0.402 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN051044.D

Acq: 7 Sep 2018 10:00

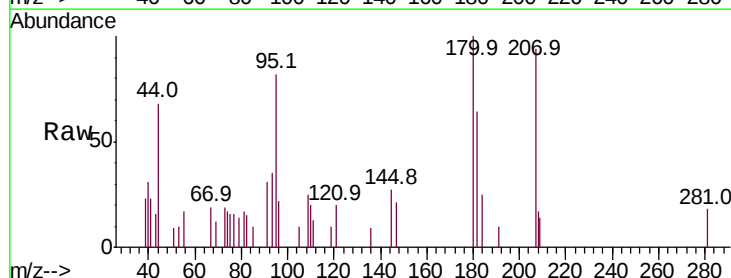
Tgt Ion:180 Resp: 2561

Ion Ratio Lower Upper

180 100

182 77.2 76.2 114.4

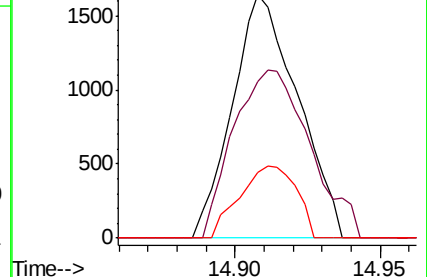
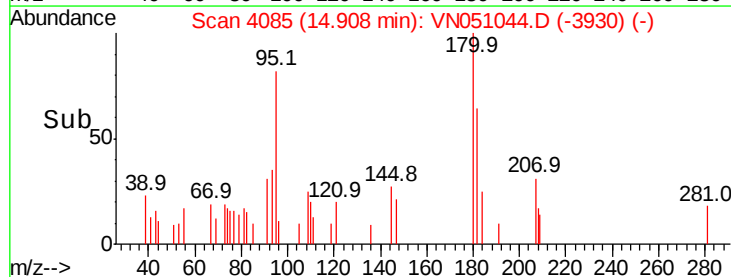
145 25.8 22.2 33.4

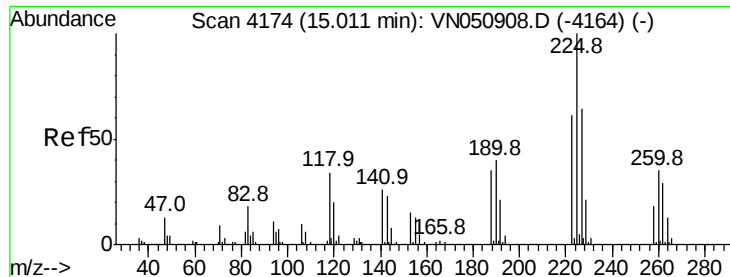


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

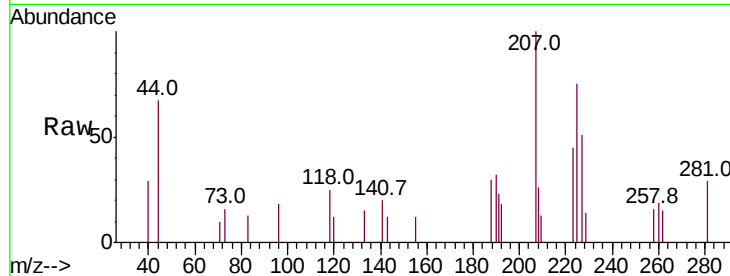




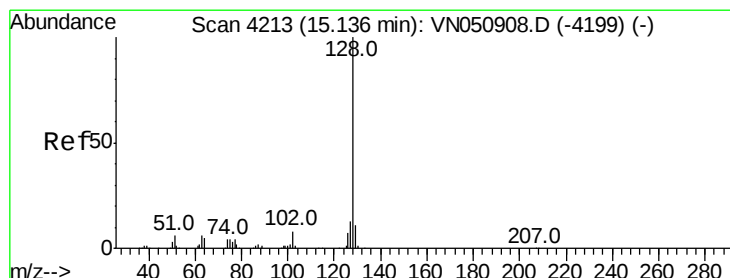
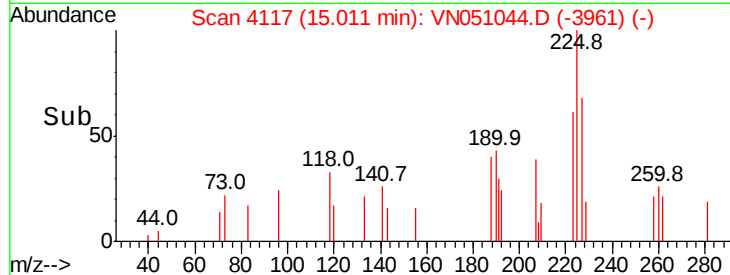
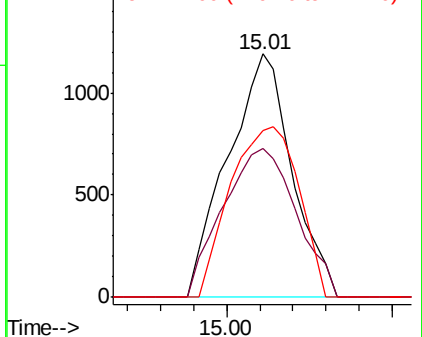
#90
Hexachlorobutadiene
Concen: 0.371 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN051044.D
Acq: 7 Sep 2018 10:00

Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVDDL

Tot Ion:	225	Resp:	1605
Ion	Ratio	Lower	Upper
225	100		
223	69.8	0.0	127.8
227	74.8	0.0	128.4

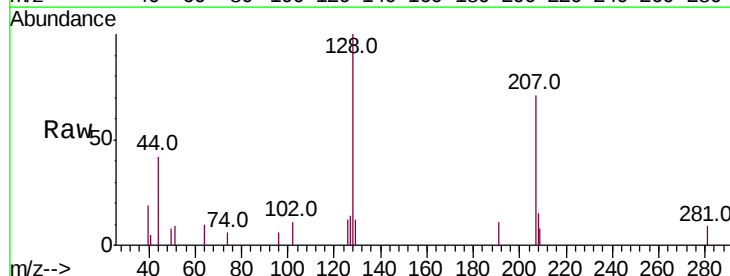


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

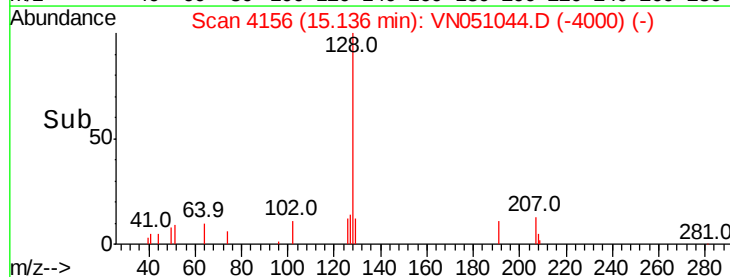
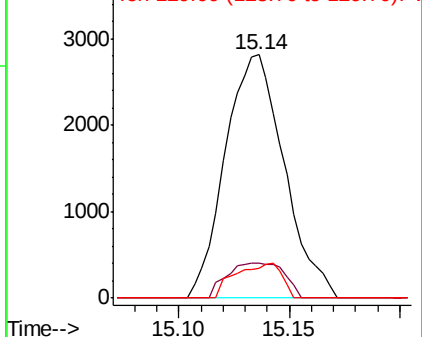


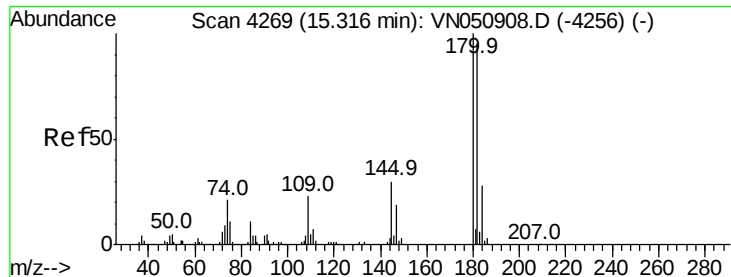
#91
Naphthalene
Concen: 8.841 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN051044.D
Acq: 7 Sep 2018 10:00

Tgt Ion:	128	Resp:	5224
Ion	Ratio	Lower	Upper
128	100		
127	14.1	10.6	16.0
129	4.7	8.7	13.1#



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: 0.430 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051044.D
 Acq: 7 Sep 2018 10:00

Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVDDL

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	0.0	192.8
145	24.2	0.0	60.0

