

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
 Data File : VN052359.D
 Acq On : 16 Nov 2018 12:47
 Operator : MD\SY
 Sample : J5971-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVD(NOV)

Quant Time: Nov 16 22:36:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	43324	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	242488	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	208765	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	108719	33.81	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	112.70%	
60) 4-Bromofluorobenzene		12.40	95	89058	26.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.90%	
63) Toluene-d8		10.09	98	295594	30.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.37%	

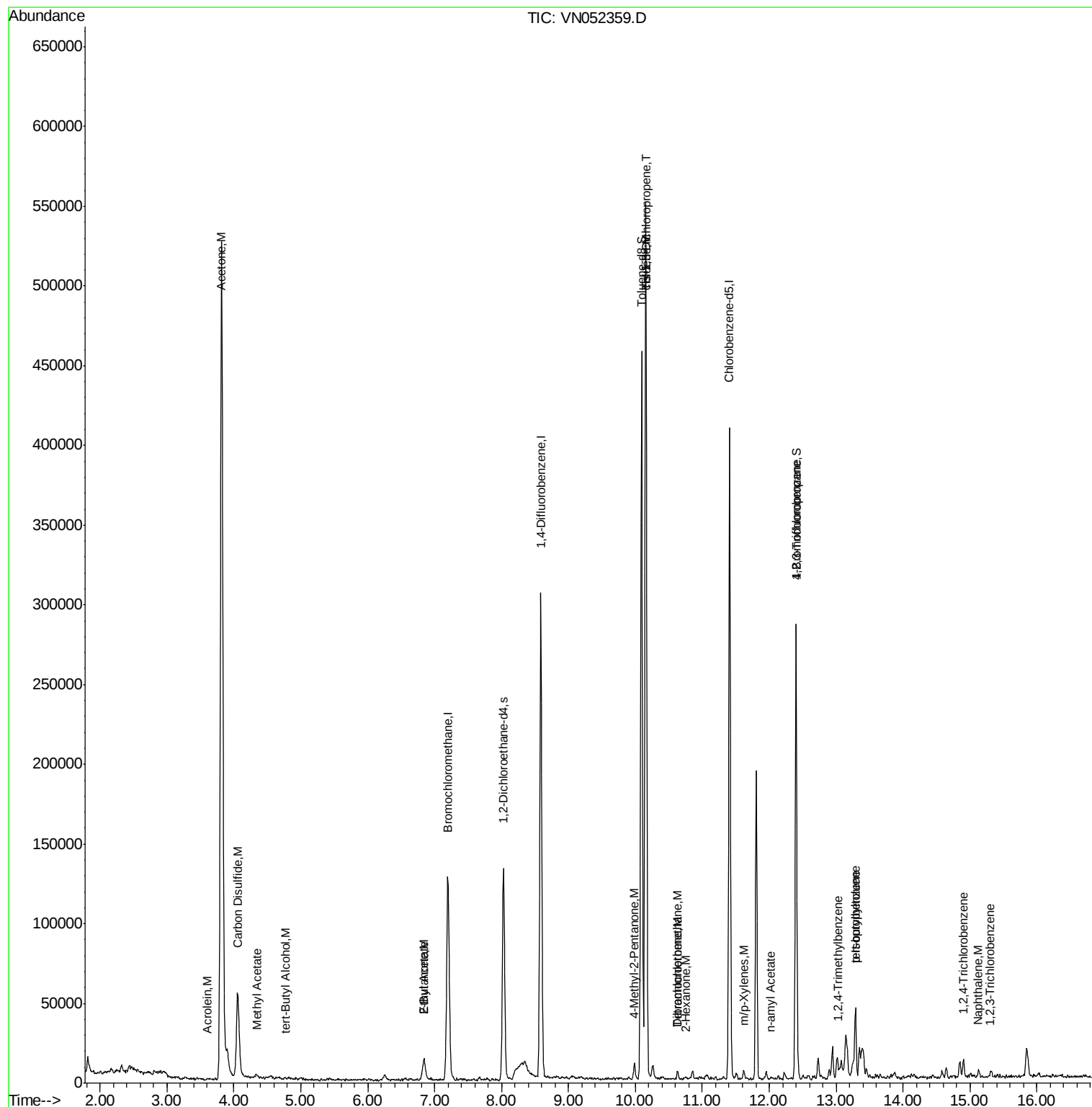
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) Methyl Acetate	4.34	43	1189	0.590	ug/l #	84
13) Acrolein	3.60	56	212	0.991	ug/l #	1
15) Acetone	3.82	58	245897	1163.397	ug/l #	60
16) Carbon Disulfide	4.06	76	4505	0.637	ug/l #	76
23) tert-Butyl Alcohol	4.77	59	107	0.768	ug/l #	99
30) 2-Butanone	6.84	43	21824	21.287	ug/l #	85
43) Ethyl Acetate	6.84	43	21824	4.236	ug/l #	89
47) n-amyl Acetate	12.03	43	973	0.252	ug/l #	100
49) cis-1,3-Dichloropropene	10.16	75	3249	0.749	ug/l #	1
53) Dibromochloromethane	10.63	129	549	0.208	ug/l #	10
58) 4-Methyl-2-Pentanone	9.99	43	6925	3.096	ug/l #	94
59) 2-Hexanone	10.76	43	524	0.340	ug/l #	93
61) Tetrachloroethene	10.63	164	898	0.396	ug/l #	53
62) Toluene	10.16	91	394055	33.625	ug/l	99
67) m/p-Xylenes	11.62	106	1400	0.287	ug/l	84
72) 1,2,3-Trichloropropane	12.40	75	52232	21.652	ug/l	1
79) tert-butylbenzene	13.29	119	18092	2.077	ug/l	64
80) 1,2,4-Trimethylbenzene	13.04	105	2937	0.295	ug/l	96
82) p-Isopropyltoluene	13.29	119	18092	1.785	ug/l	96
89) 1,2,4-Trichlorobenzene	14.90	180	497	0.264	ug/l #	80
91) Naphthalene	15.14	128	3573	0.822	ug/l	96
92) 1,2,3-Trichlorobenzene	15.31	180	1100	0.669	ug/l	83

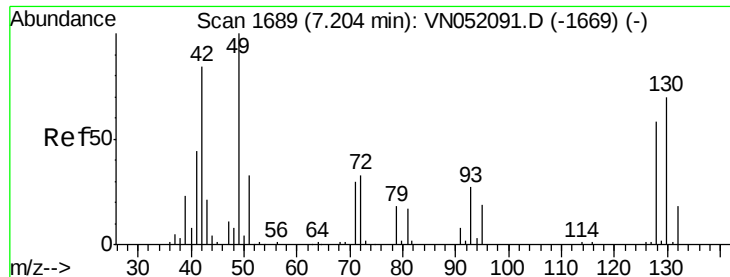
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111618\
Data File : VN052359.D
Acq On : 16 Nov 2018 12:47
Operator : MD\SY
Sample : J5971-01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 10 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(NOV)

Quant Time: Nov 16 22:36:25 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 02 05:39:38 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: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(NOV)

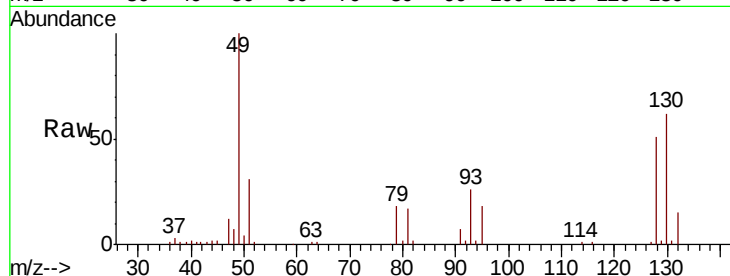
Tot Ion:128 Resp: 43324

Ion Ratio Lower Upper

128 100

49 200.1 0.0 453.7

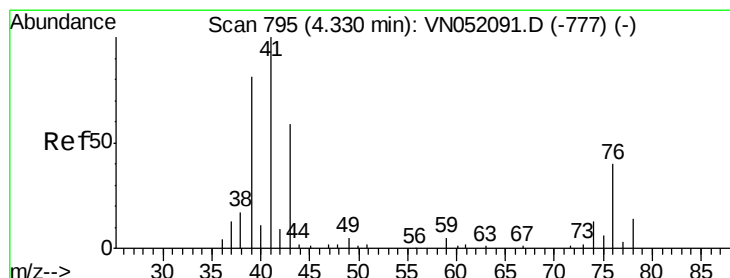
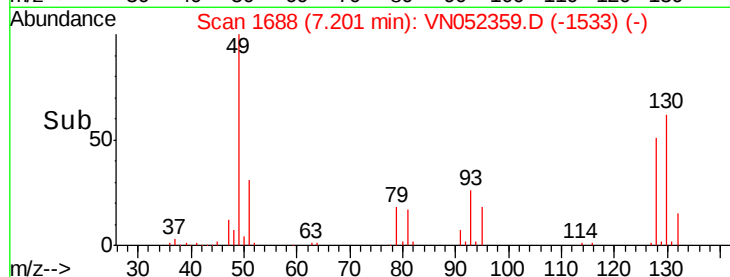
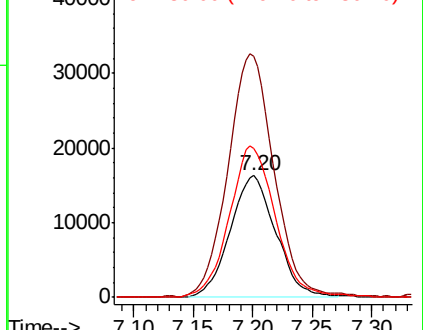
130 125.6 0.0 308.8



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



#12

Methyl Acetate

Concen: 0.590 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.01 min

Lab File: VN052359.D

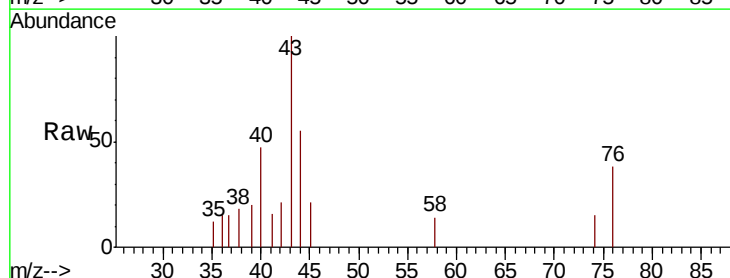
Acq: 16 Nov 2018 12:47

Tgt Ion: 43 Resp: 1189

Ion Ratio Lower Upper

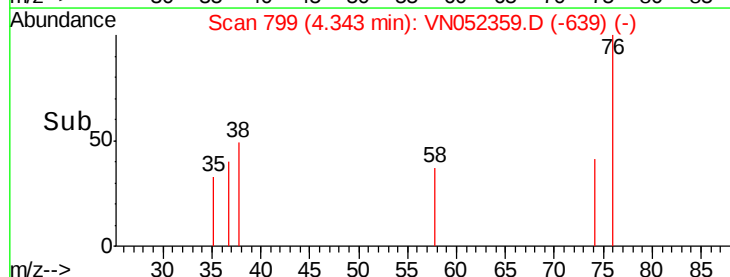
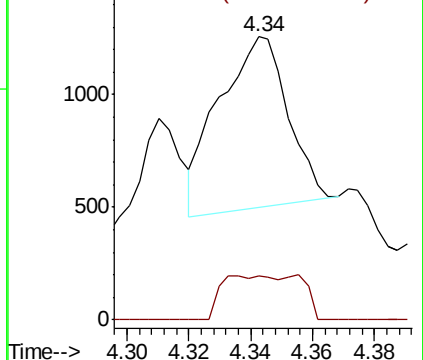
43 100

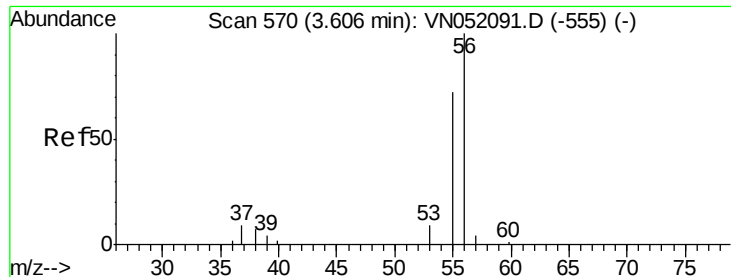
74 29.6 17.4 26.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.991 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

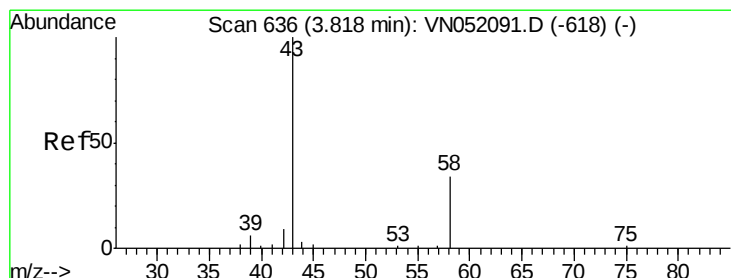
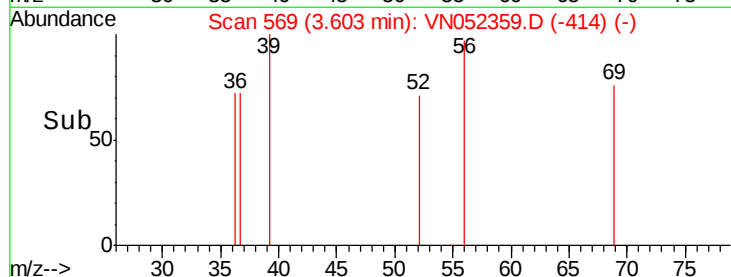
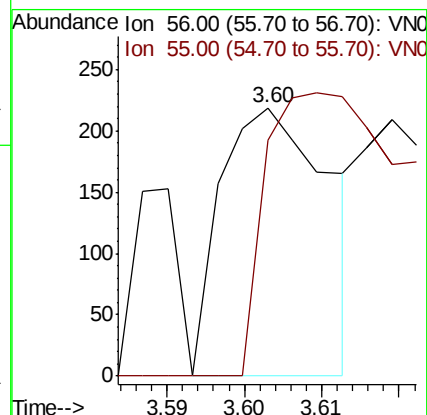
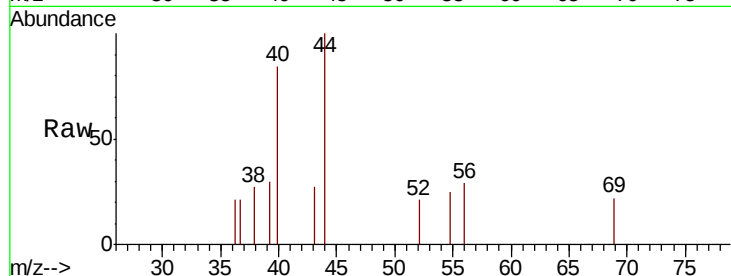
001M-WILLETS-PT-BLVD(NOV)

Tot Ion: 56 Resp: 212

Ion Ratio Lower Upper

56 100

55 173.1 56.2 84.2#



#15

Acetone

Concen: 1163.397 ug/l

RT: 3.82 min Scan# 635

Delta R.T. -0.00 min

Lab File: VN052359.D

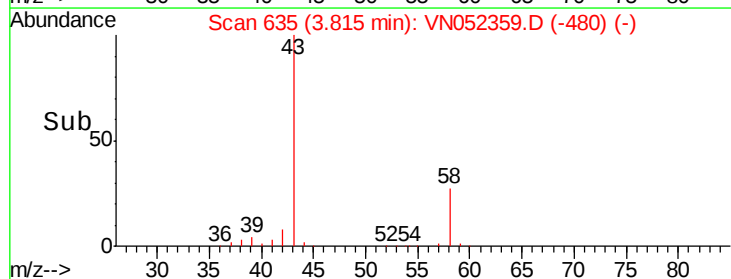
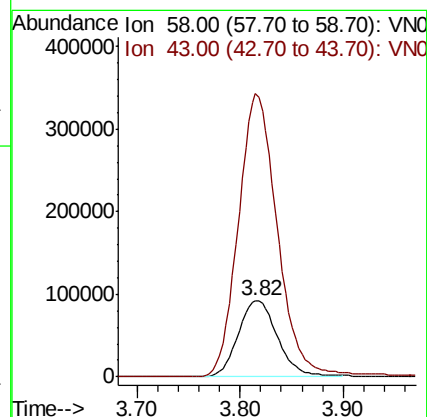
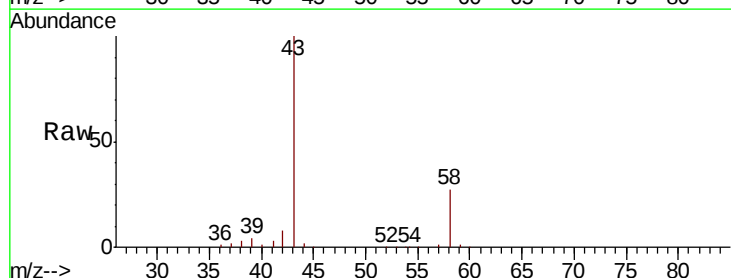
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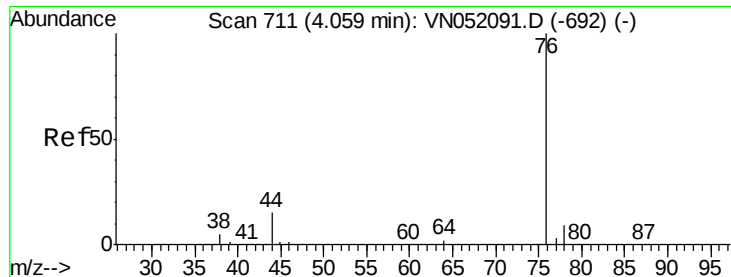
Tgt Ion: 58 Resp: 245897

Ion Ratio Lower Upper

58 100

43 370.1 234.7 352.1#

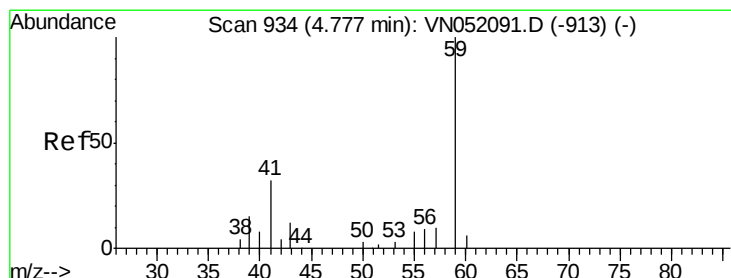
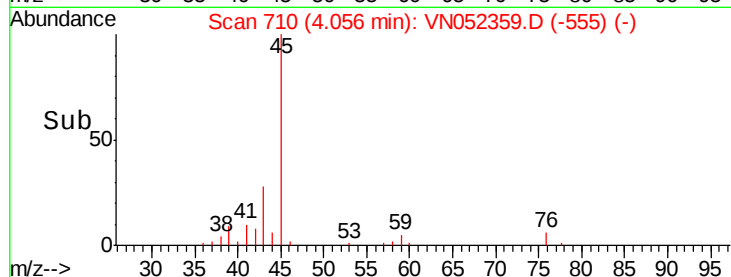
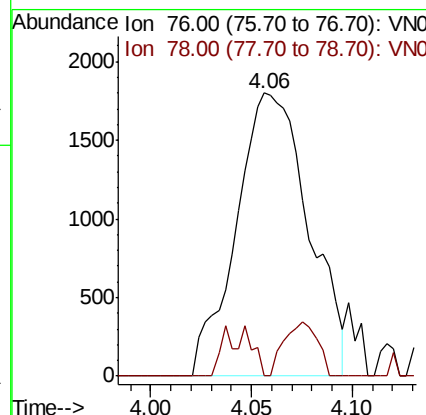
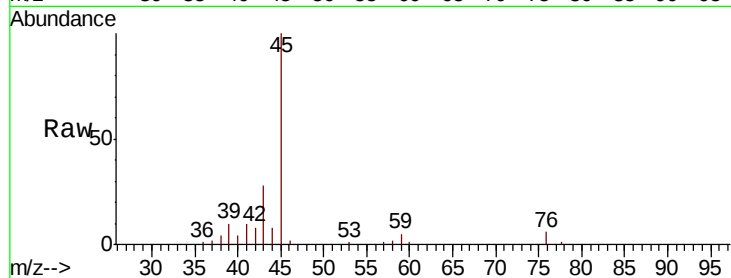




#16
Carbon Disulfide
Concen: 0.637 ug/l
RT: 4.06 min Scan# 710
Delta R.T. -0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

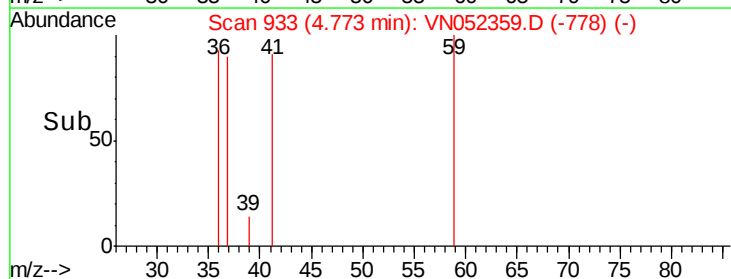
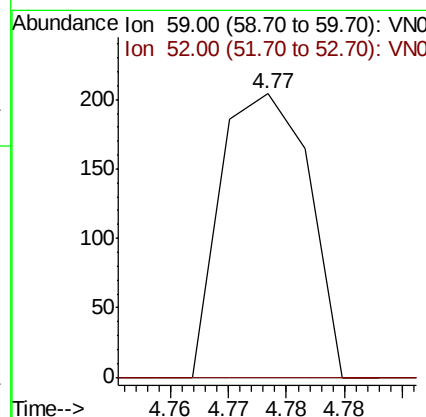
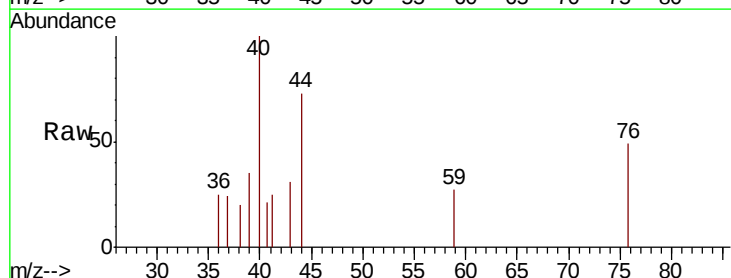
Instrument :
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001M-WILLETS-PT-BLVD(NOV)

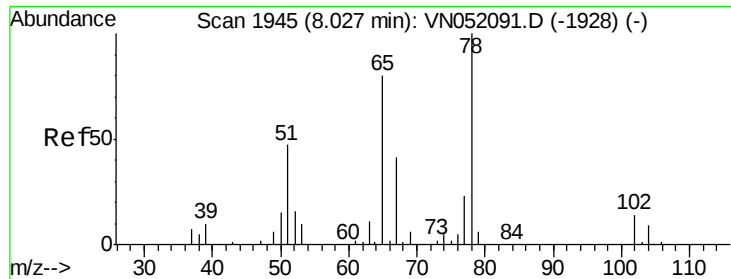
Tot Ion: 76 Resp: 4505
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#



#23
tert-Butyl Alcohol
Concen: 0.768 ug/l
RT: 4.77 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Tgt Ion: 59 Resp: 107
Ion Ratio Lower Upper
59 100
52 0.0 0.3 0.5#

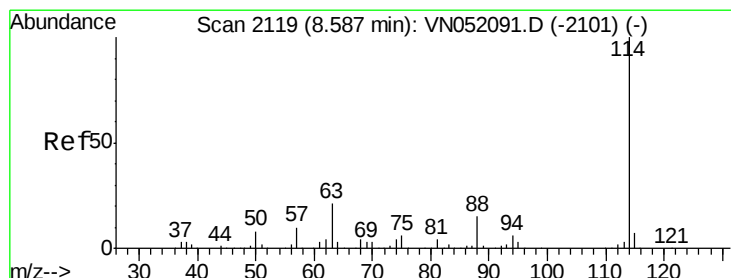
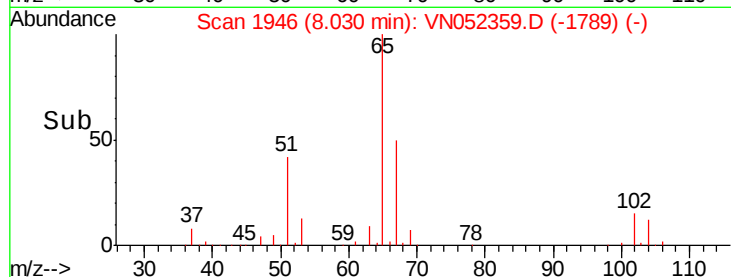
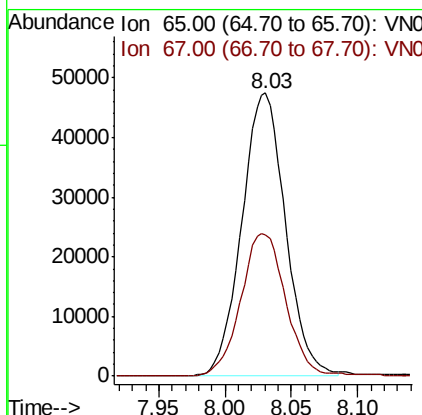
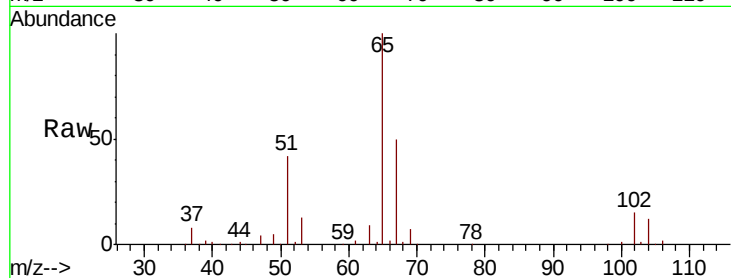




#27
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052359.D
 Acq: 16 Nov 2018 12:47

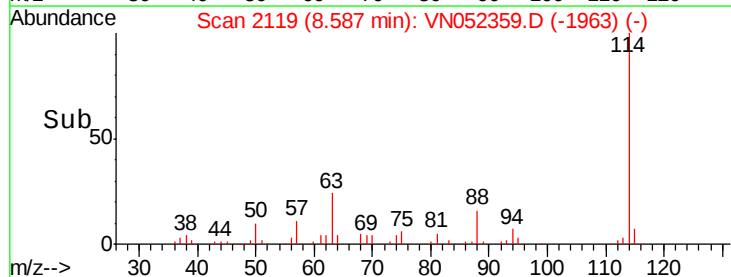
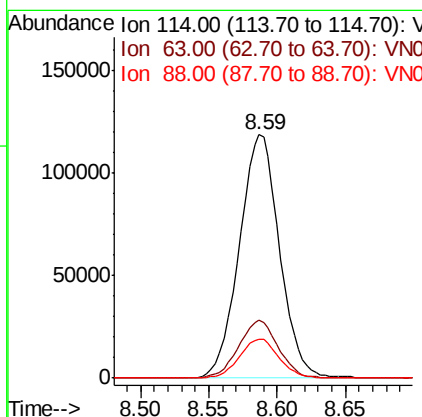
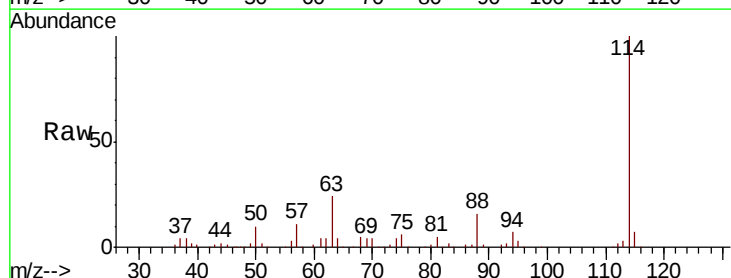
Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVD(NOV)

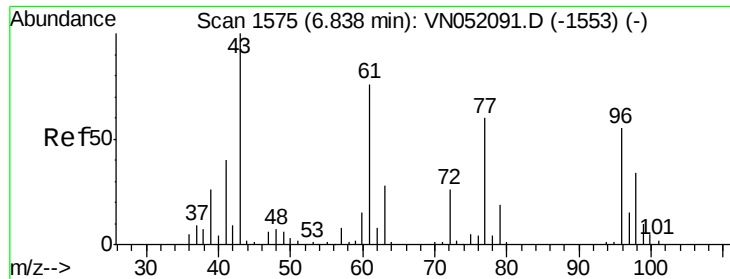
Tot Ion: 65 Resp: 108719
 Ion Ratio Lower Upper
 65 100
 67 51.4 42.6 64.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052359.D
 Acq: 16 Nov 2018 12:47

Tgt Ion: 114 Resp: 242488
 Ion Ratio Lower Upper
 114 100
 63 23.5 17.5 26.3
 88 15.8 12.6 18.8

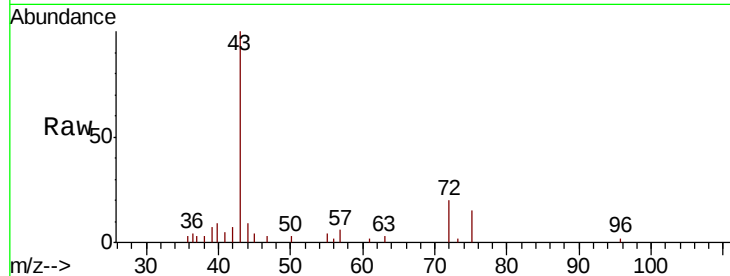




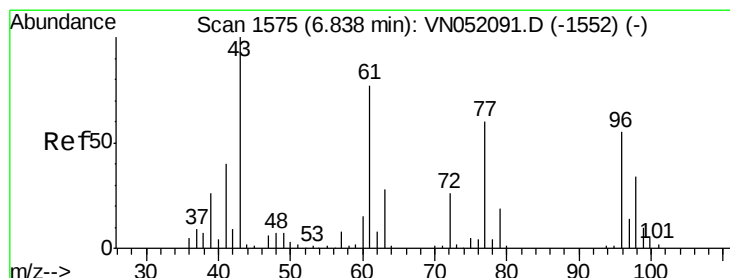
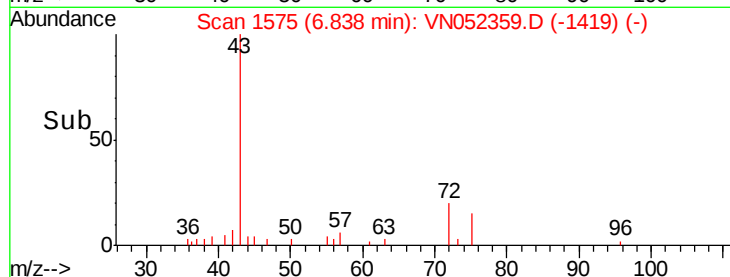
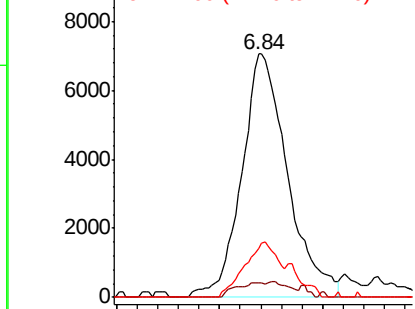
#30
2-Butanone
Concen: 21.287 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(NOV)

Tot Ion: 43 Resp: 21824
Ion Ratio Lower Upper
43 100
57 2.1 6.6 9.8#
72 16.8 9.2 13.8#

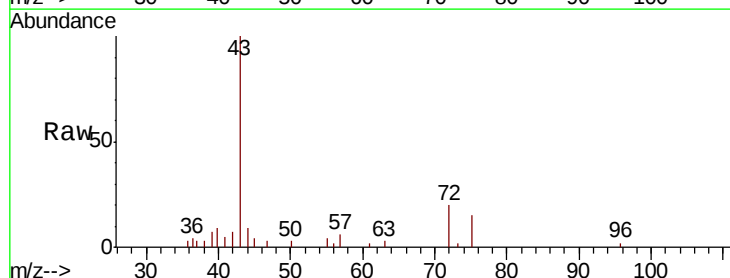


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 57.00 (56.70 to 57.70): VNO
Ion 72.00 (71.70 to 72.70): VNO

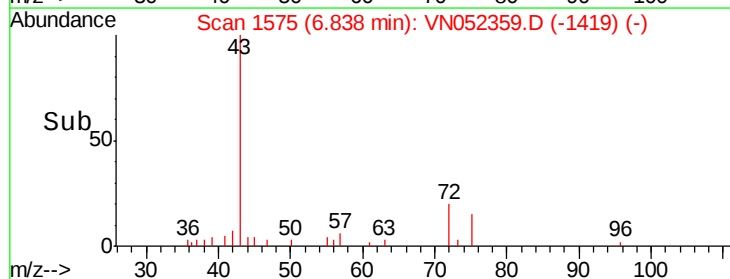
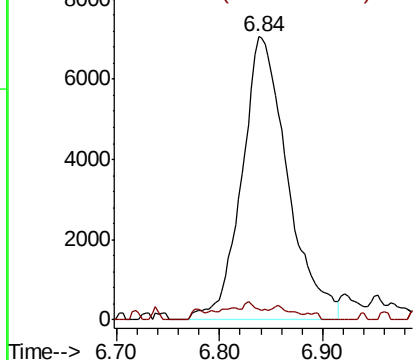


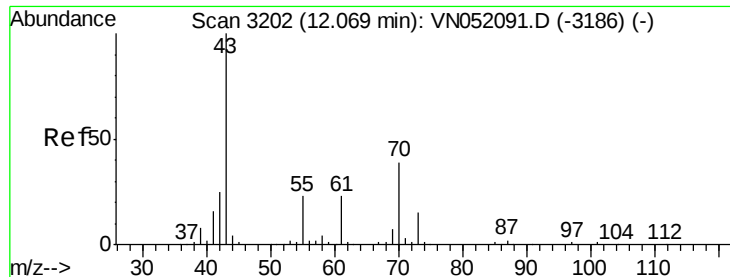
#43
Ethyl Acetate
Concen: 4.236 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Tgt Ion: 43 Resp: 21824
Ion Ratio Lower Upper
43 100
45 1.2 3.8 5.8#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 45.00 (44.70 to 45.70): VNO





#47

n-amvl Acetate

Concen: 0.252 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

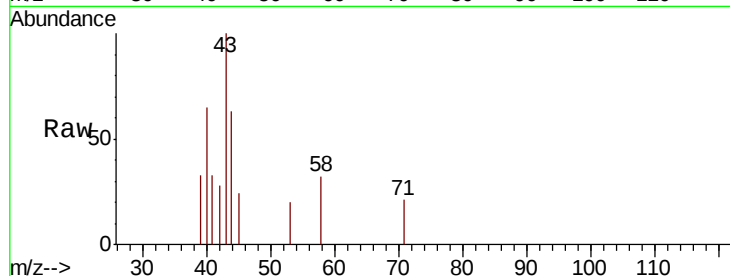
001M-WILLETS-PT-BLVD(NOV)

Tot Ion: 43 Resp: 973

Ion Ratio Lower Upper

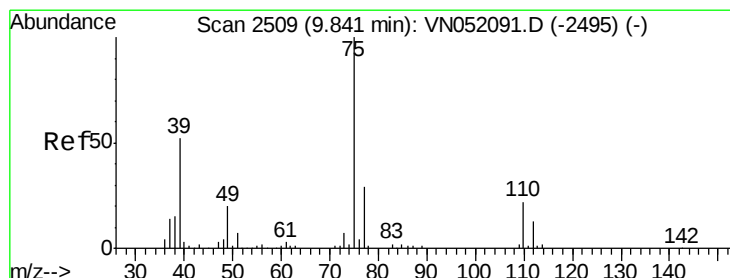
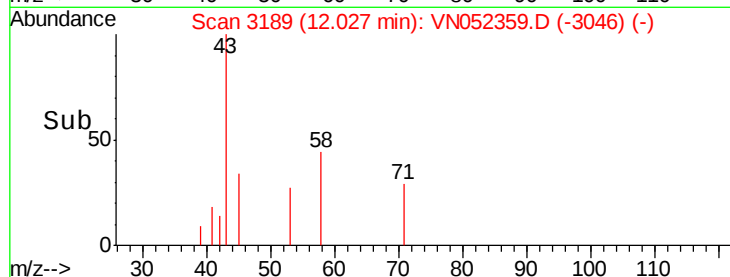
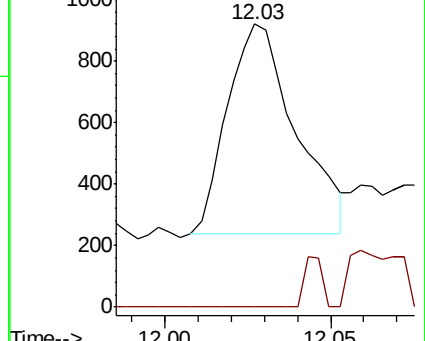
43 100

55 6.4 0.0 0.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#49

cis-1,3-Dichloropropene

Concen: 0.749 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.32 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

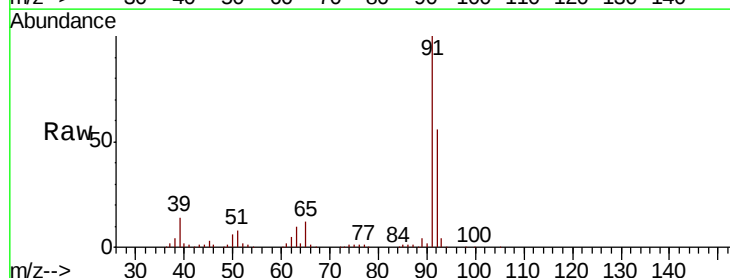
Tgt Ion: 75 Resp: 3249

Ion Ratio Lower Upper

75 100

77 162.0 23.3 34.9#

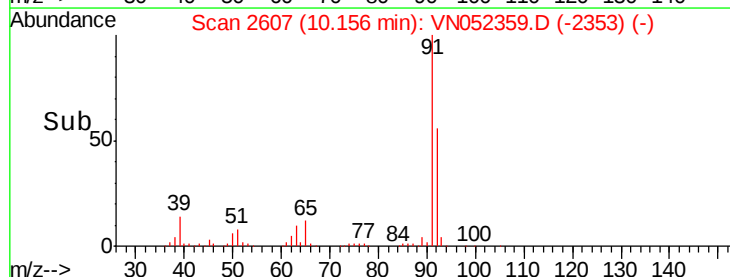
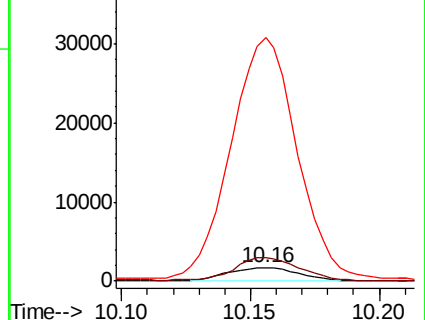
39 1732.3 41.6 62.4#

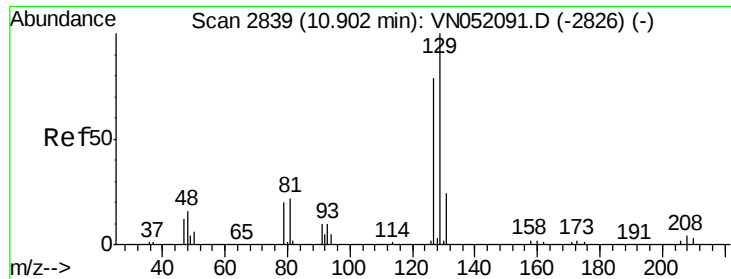


Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#53

Dibromochloromethane

Concen: 0.208 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

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ClientSampleId :

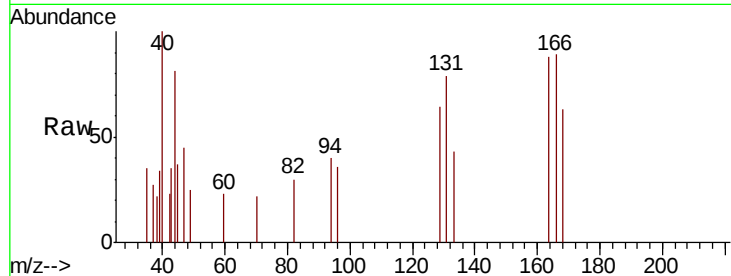
001M-WILLETS-PT-BLVD(NOV)

Tot Ion:129 Resp: 549

Ion Ratio Lower Upper

129 100

127 0.0 39.2 117.6#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.63

500

400

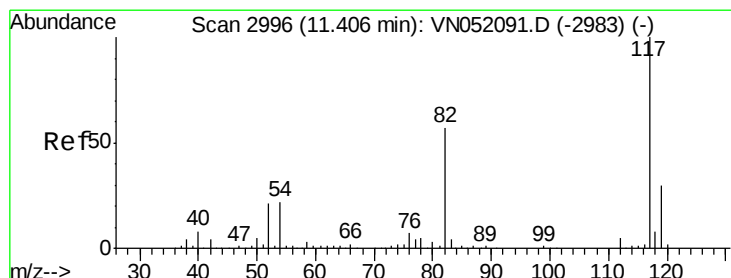
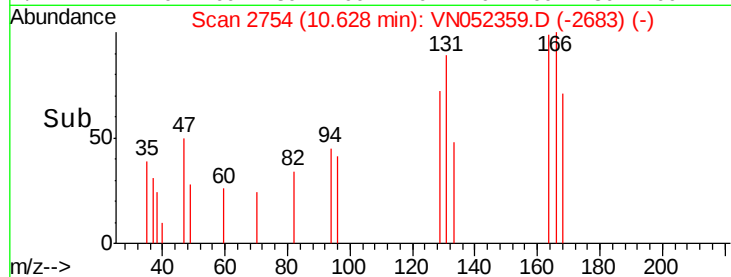
300

200

100

0

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

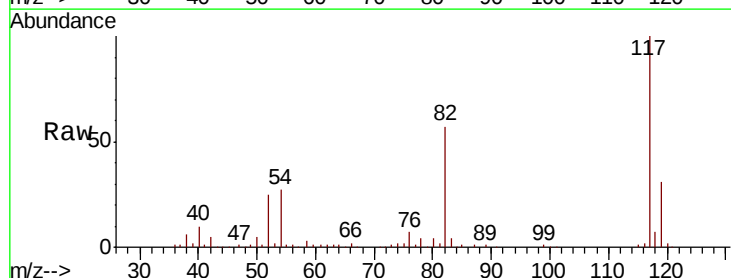
Tgt Ion:117 Resp: 208765

Ion Ratio Lower Upper

117 100

82 58.4 45.0 67.6

119 32.0 24.2 36.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 119.00 (118.70 to 119.70): V

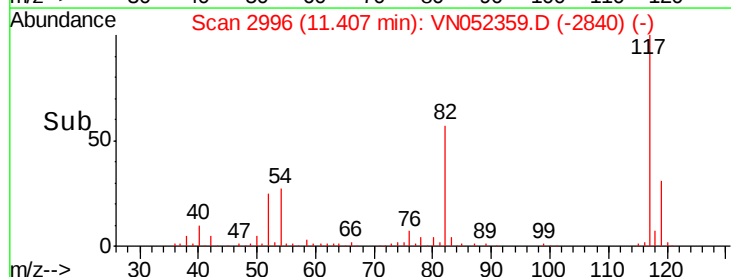
150000

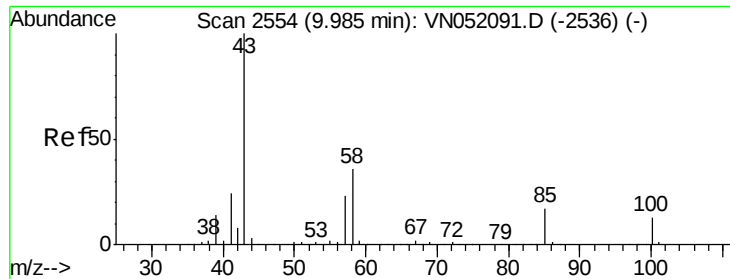
100000

50000

0

Time-->





#58

4-Methyl-2-Pentanone

Concen: 3.096 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(NOV)

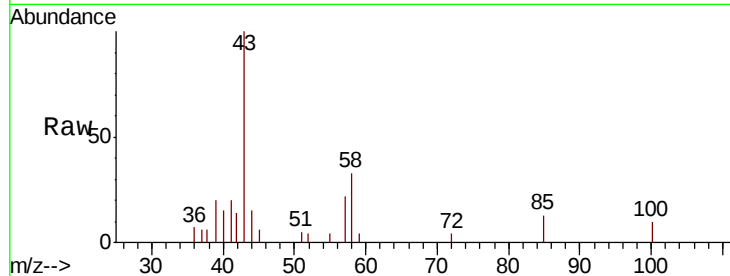
Tot Ion: 43 Resp: 6925

Ion Ratio Lower Upper

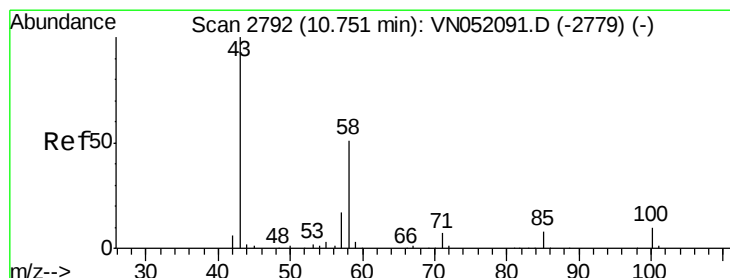
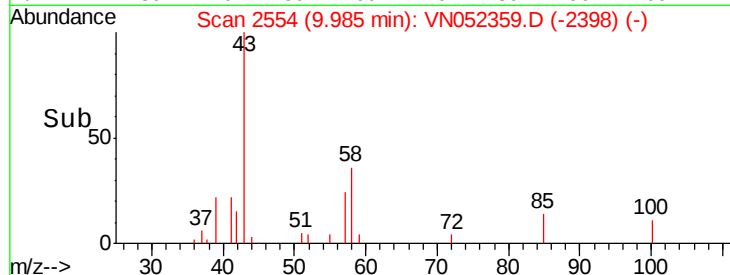
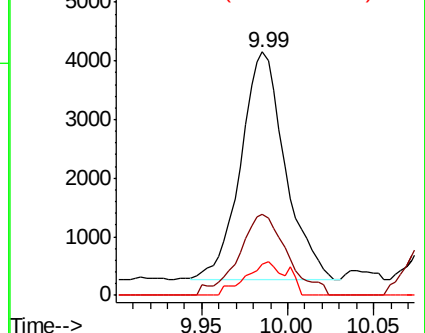
43 100

58 37.7 29.0 43.6

85 10.2 13.4 20.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 85.00 (84.70 to 85.70): VN0



#59

2-Hexanone

Concen: 0.340 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

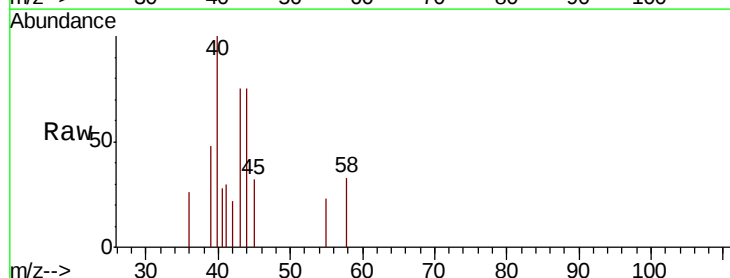
Tgt Ion: 43 Resp: 524

Ion Ratio Lower Upper

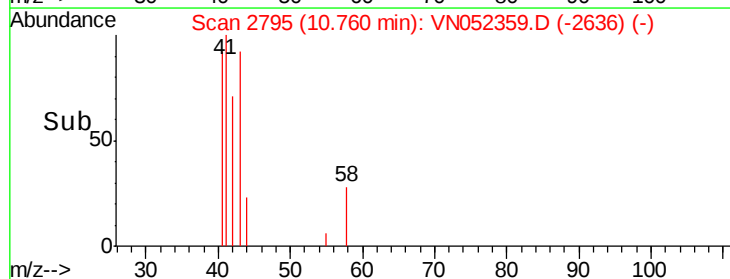
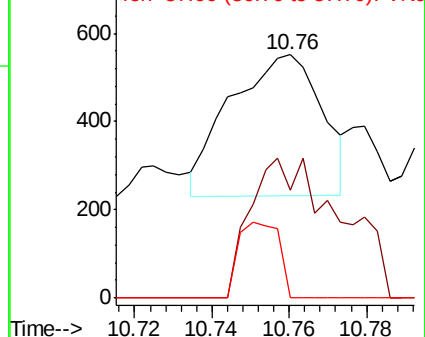
43 100

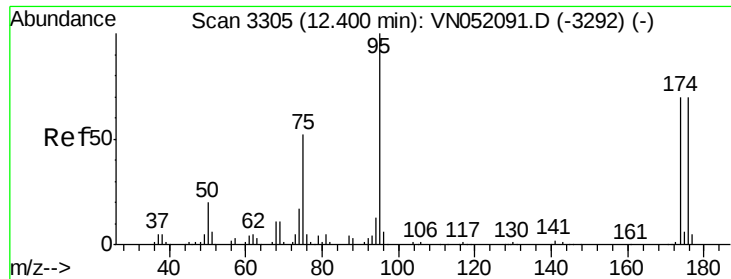
58 45.2 40.8 61.2

57 17.9 13.8 20.8



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

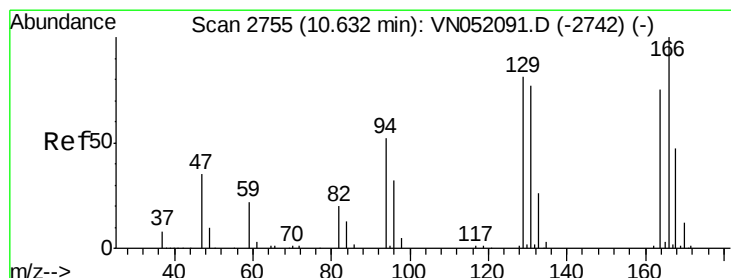
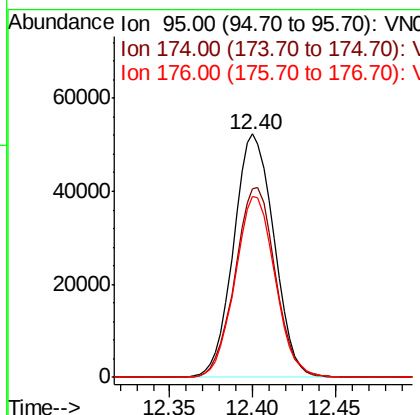
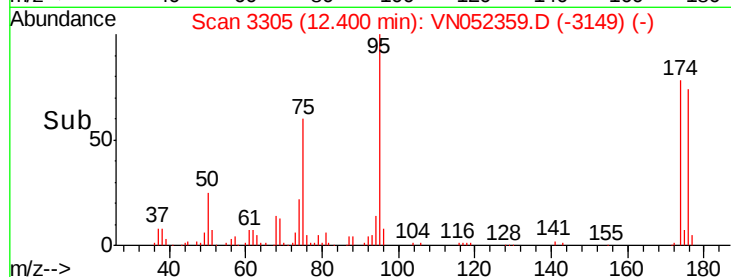
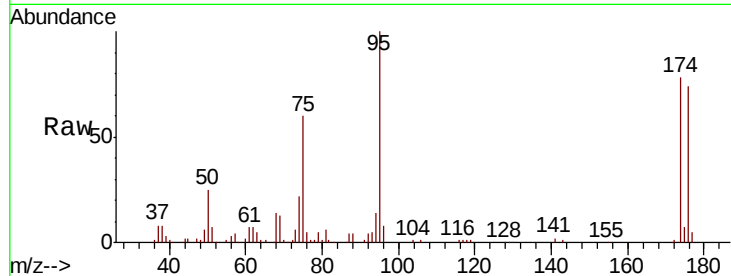




#60
4-Bromofluorobenzene
Concen: 0.340 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

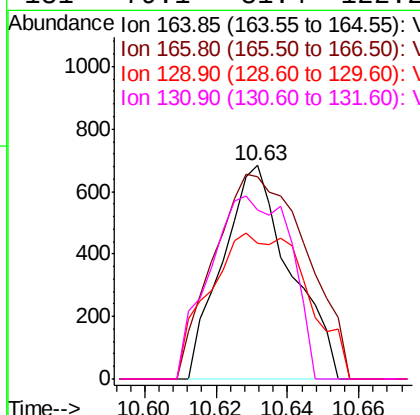
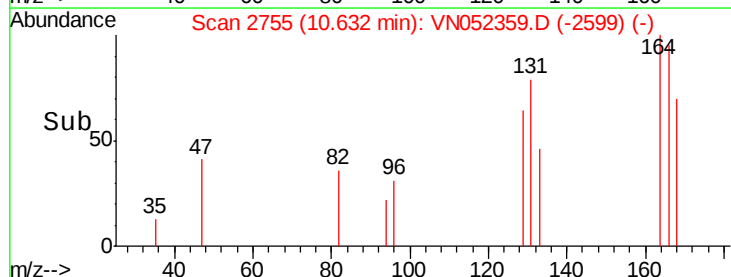
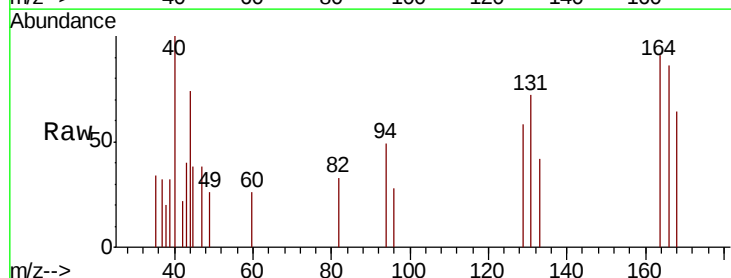
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(NOV)

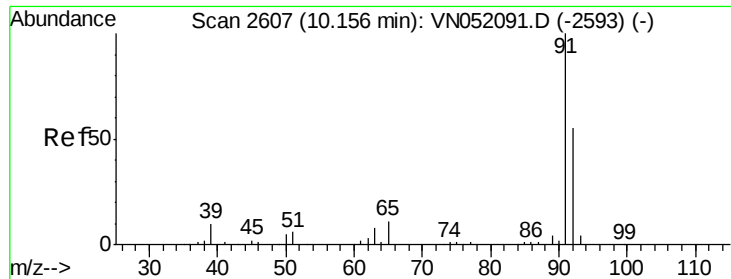
Tot Ion: 95 Resp: 89058
Ion Ratio Lower Upper
95 100
174 77.7 55.0 82.6
176 73.6 54.2 81.4



#61
Tetrachloroethene
Concen: 0.396 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Tgt Ion: 164 Resp: 898
Ion Ratio Lower Upper
164 100
166 72.7 106.4 159.6#
129 40.4 87.0 130.4#
131 79.1 81.4 122.2#





#62

Toluene

Concen: 33.625 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

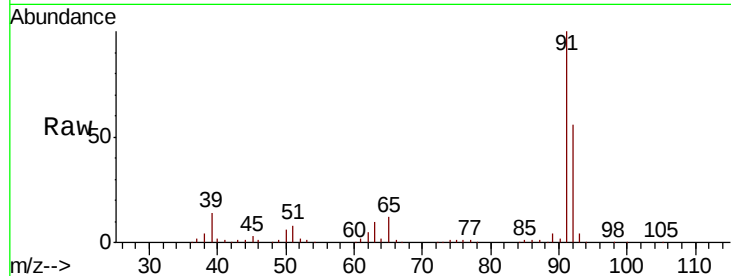
001M-WILLETS-PT-BLVD(NOV)

Tot Ion: 91 Resp: 394055

Ion Ratio Lower Upper

91 100

92 56.2 44.6 67.0



Abundance Ion 91.00 (90.70 to 91.70): VN052091.D (-2593) (-)

Ion 92.00 (91.70 to 92.70): VN052091.D (-2593) (-)

250000

200000

150000

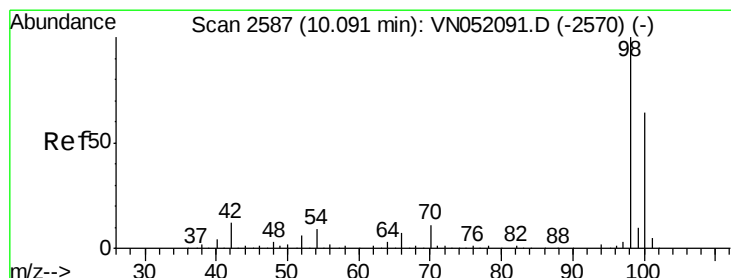
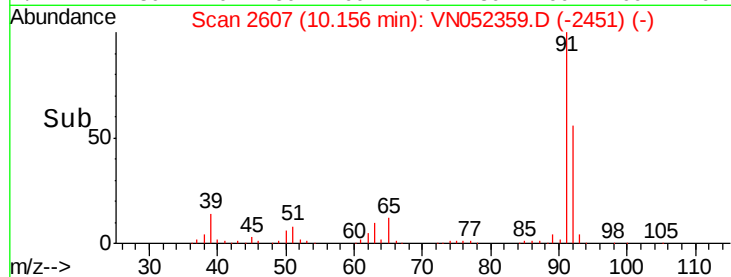
100000

50000

0

10.10 10.15 10.20 10.25

Time-->



#63

Toluene-d8

Concen: 33.625 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052359.D

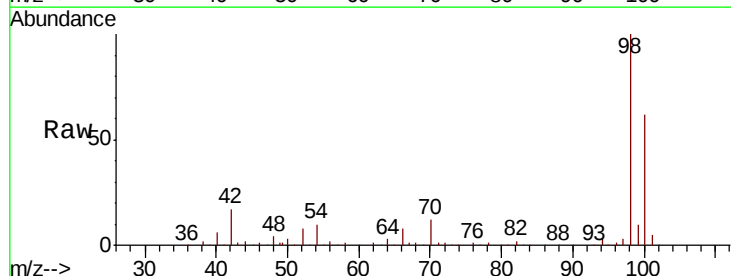
Acq: 16 Nov 2018 12:47

Tgt Ion: 98 Resp: 295594

Ion Ratio Lower Upper

98 100

100 62.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN052091.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052091.D (-2570) (-)

150000

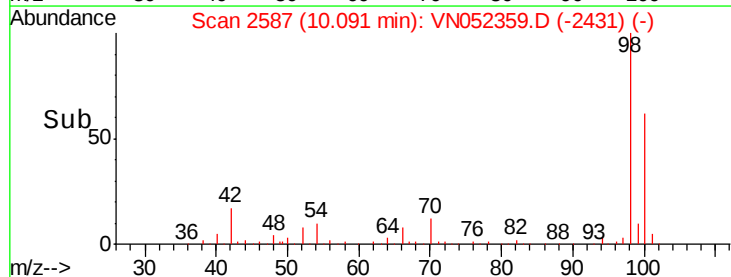
100000

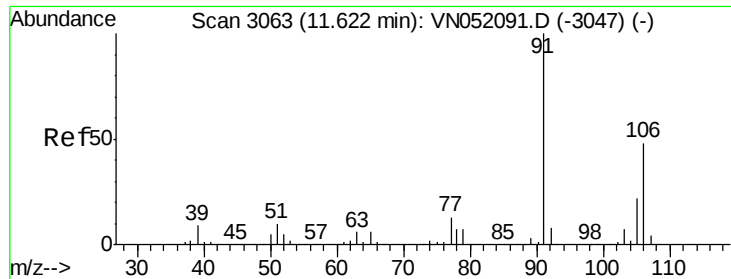
50000

0

10.00 10.05 10.10 10.15

Time-->





#67

m/p-Xvlenes

Concen: 0.287 ug/l

RT: 11.62 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

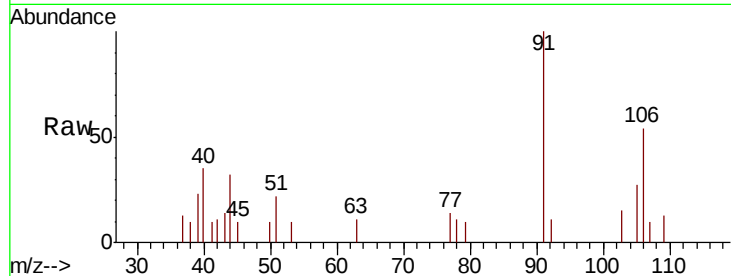
001M-WILLETS-PT-BLVD(NOV)

Tot Ion:106 Resp: 1400

Ion Ratio Lower Upper

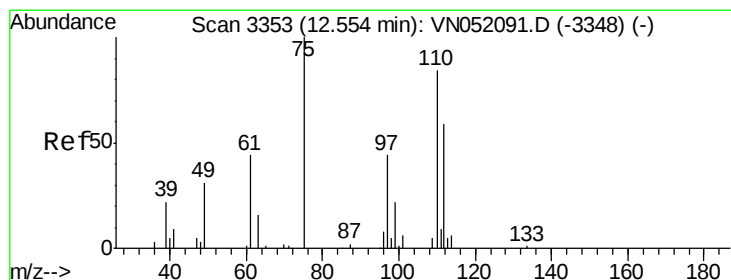
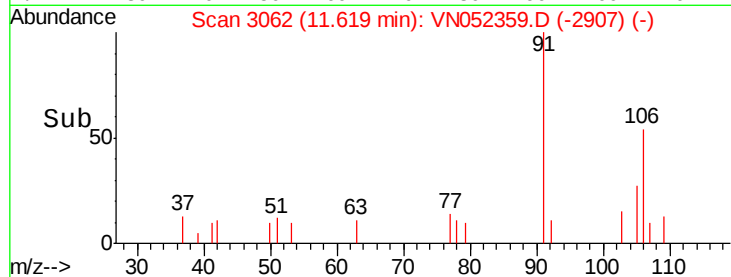
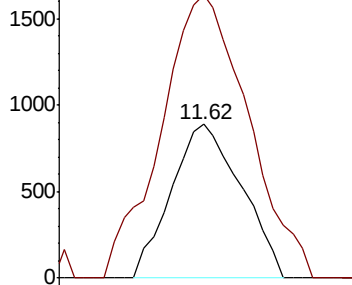
106 100

91 229.5 163.6 245.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VNO



#72

1,2,3-Trichloropropane

Concen: 21.652 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052359.D

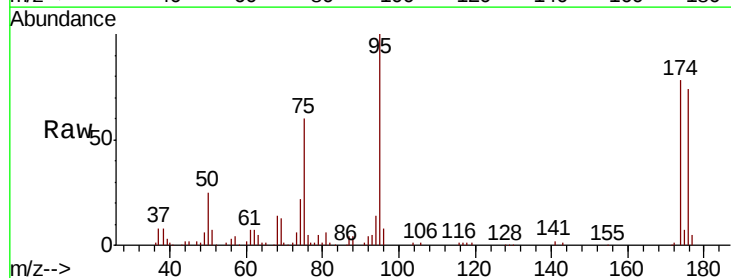
Acq: 16 Nov 2018 12:47

Tgt Ion: 75 Resp: 52232

Ion Ratio Lower Upper

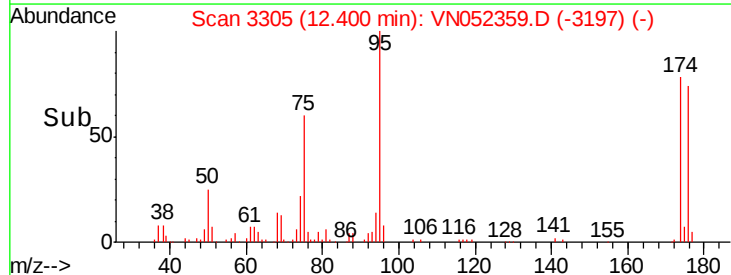
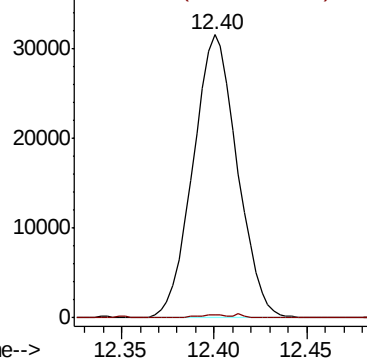
75 100

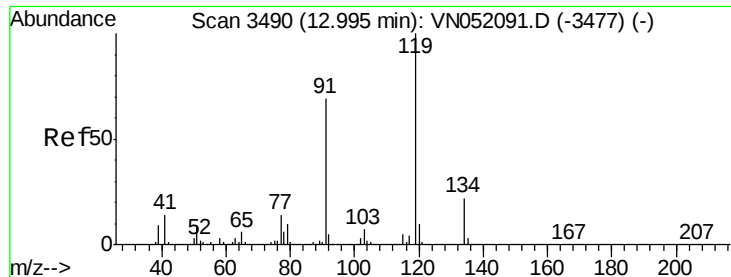
77 0.6 0.0 481.8



Abundance Ion 75.00 (74.70 to 75.70): VNO

Ion 77.00 (76.70 to 77.70): VNO

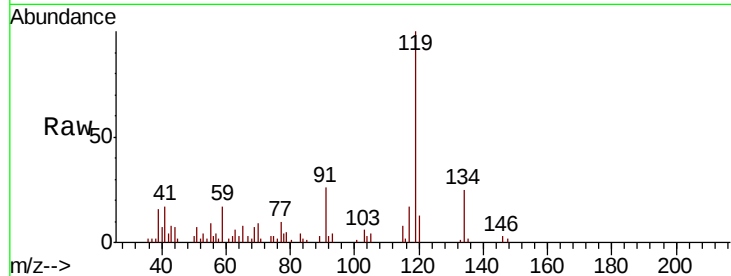




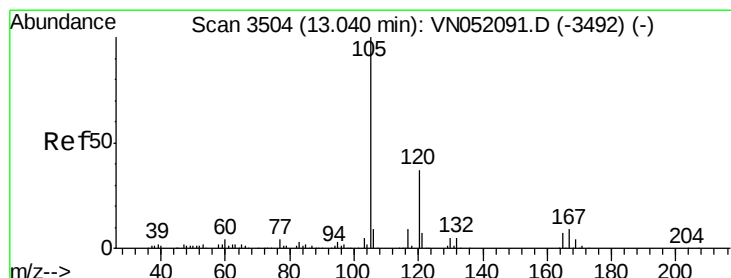
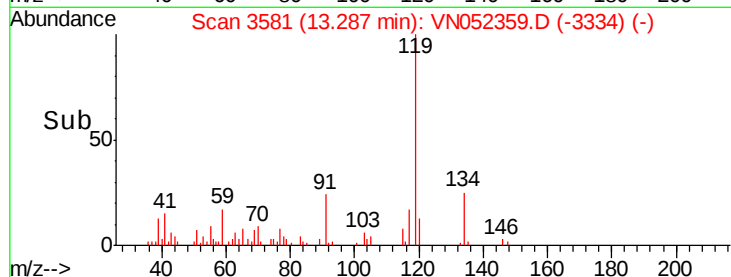
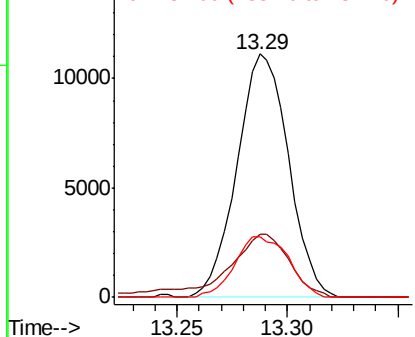
#79
tert-butylbenzene
Concen: 2.077 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.29 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(NOV)

Tot Ion:119 Resp: 18092
Ion Ratio Lower Upper
119 100
91 29.2 0.0 131.2
134 26.1 0.0 45.8

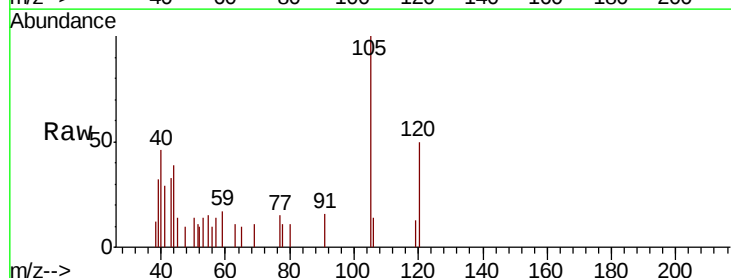


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

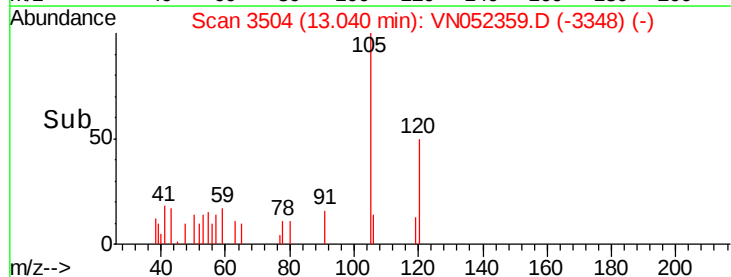
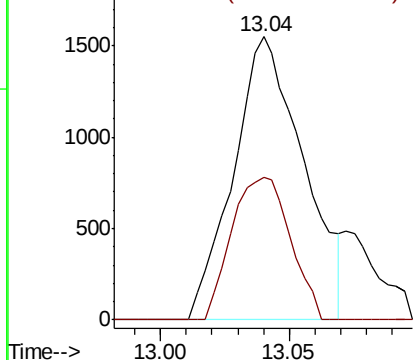


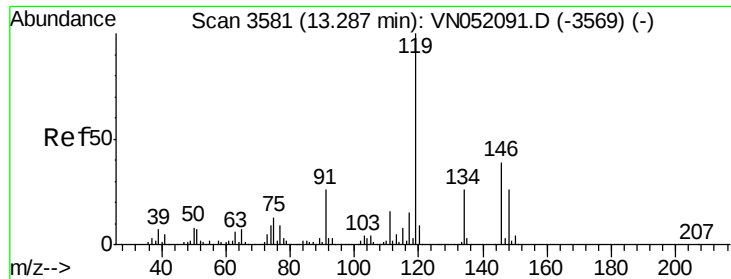
#80
1,2,4-Trimethylbenzene
Concen: 0.295 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Tgt Ion:105 Resp: 2937
Ion Ratio Lower Upper
105 100
120 42.2 0.0 89.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

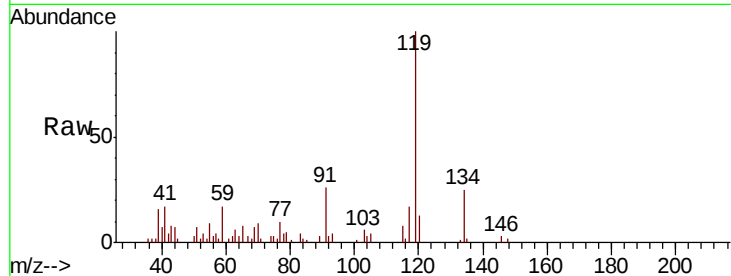




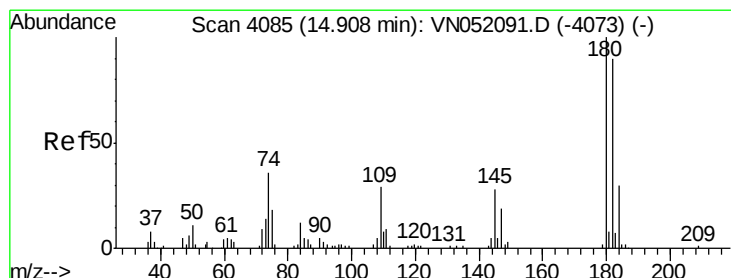
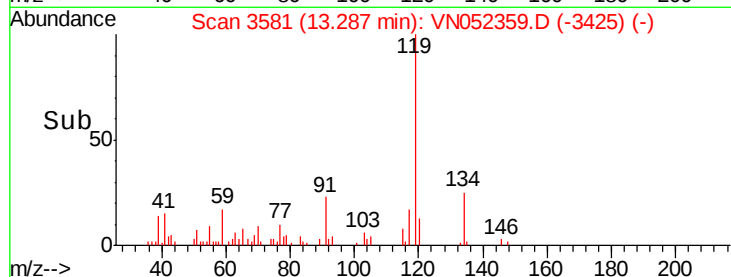
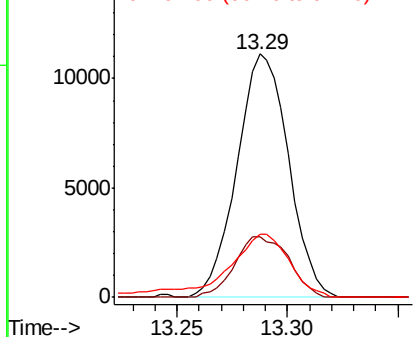
#82
p-Isopropyltoluene
Concen: 1.785 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(NOV)

Tot Ion:119 Resp: 18092
Ion Ratio Lower Upper
119 100
134 26.1 0.0 52.0
91 29.2 0.0 50.8

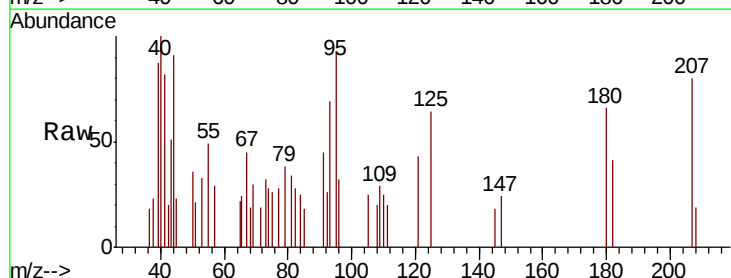


Abundance Ion 119.00 (118.70 to 119.70): V
15000 Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

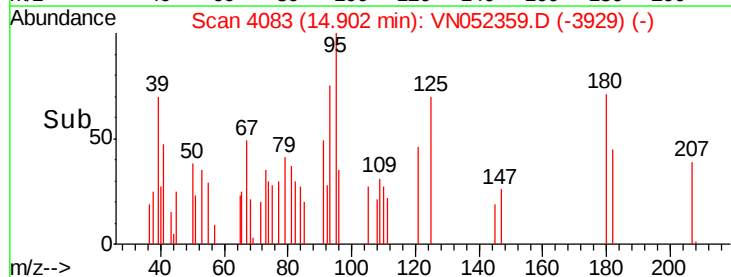
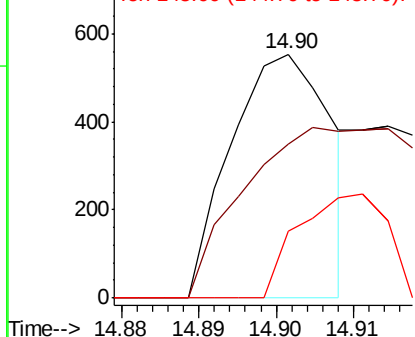


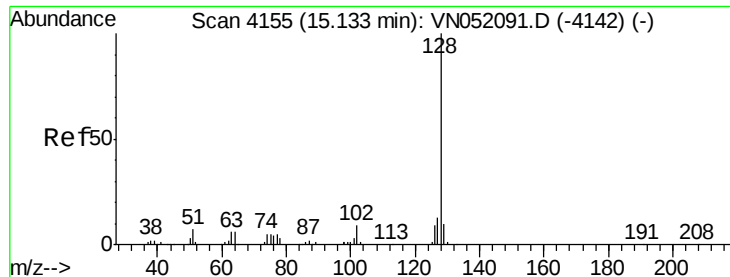
#89
1,2,4-Trichlorobenzene
Concen: 0.264 ug/l
RT: 14.90 min Scan# 4083
Delta R.T. -0.01 min
Lab File: VN052359.D
Acq: 16 Nov 2018 12:47

Tgt Ion:180 Resp: 497
Ion Ratio Lower Upper
180 100
182 70.4 74.0 111.0#
145 37.6 24.6 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





#91

Naphthalene

Concen: 0.822 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(NOV)

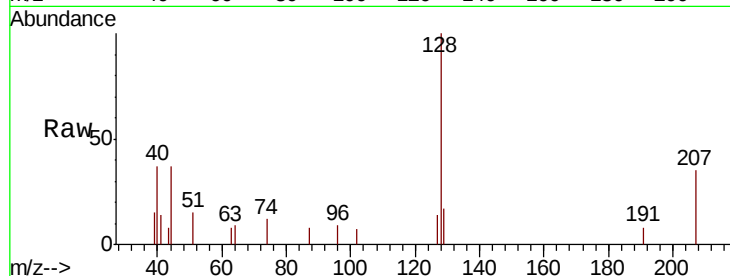
Tot Ion:128 Resp: 3573

Ion Ratio Lower Upper

128 100

127 10.8 10.4 15.6

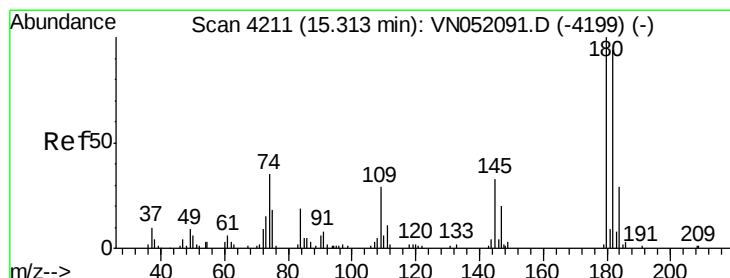
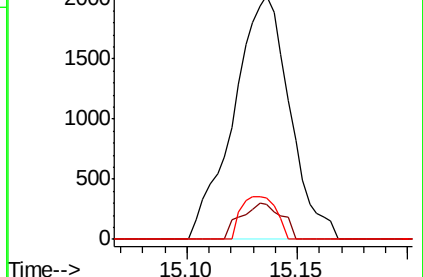
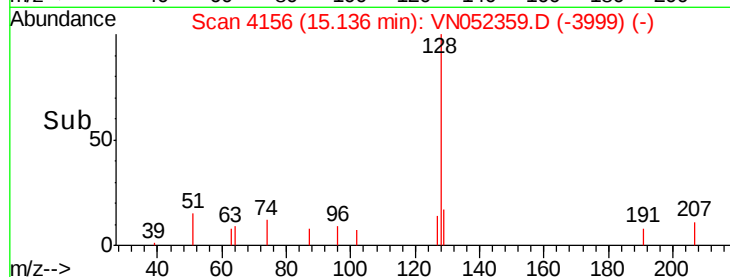
129 11.2 8.3 12.5



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: 0.669 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN052359.D

Acq: 16 Nov 2018 12:47

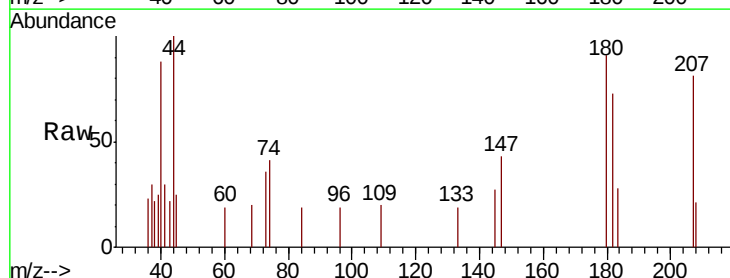
Tgt Ion:180 Resp: 1100

Ion Ratio Lower Upper

180 100

182 81.2 0.0 186.6

145 16.1 0.0 66.6



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

