

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082718\
 Data File : VN050903.D
 Acq On : 27 Aug 2018 18:39
 Operator : MD\SY
 Sample : J4674-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

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

Quant Time: Aug 28 01:58:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	108638	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	559642	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	472513	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	217781	29.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.30%	
60) 4-Bromofluorobenzene		12.40	95	163872	22.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	75.23%	
63) Toluene-d8		10.09	98	648656	28.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.80%	

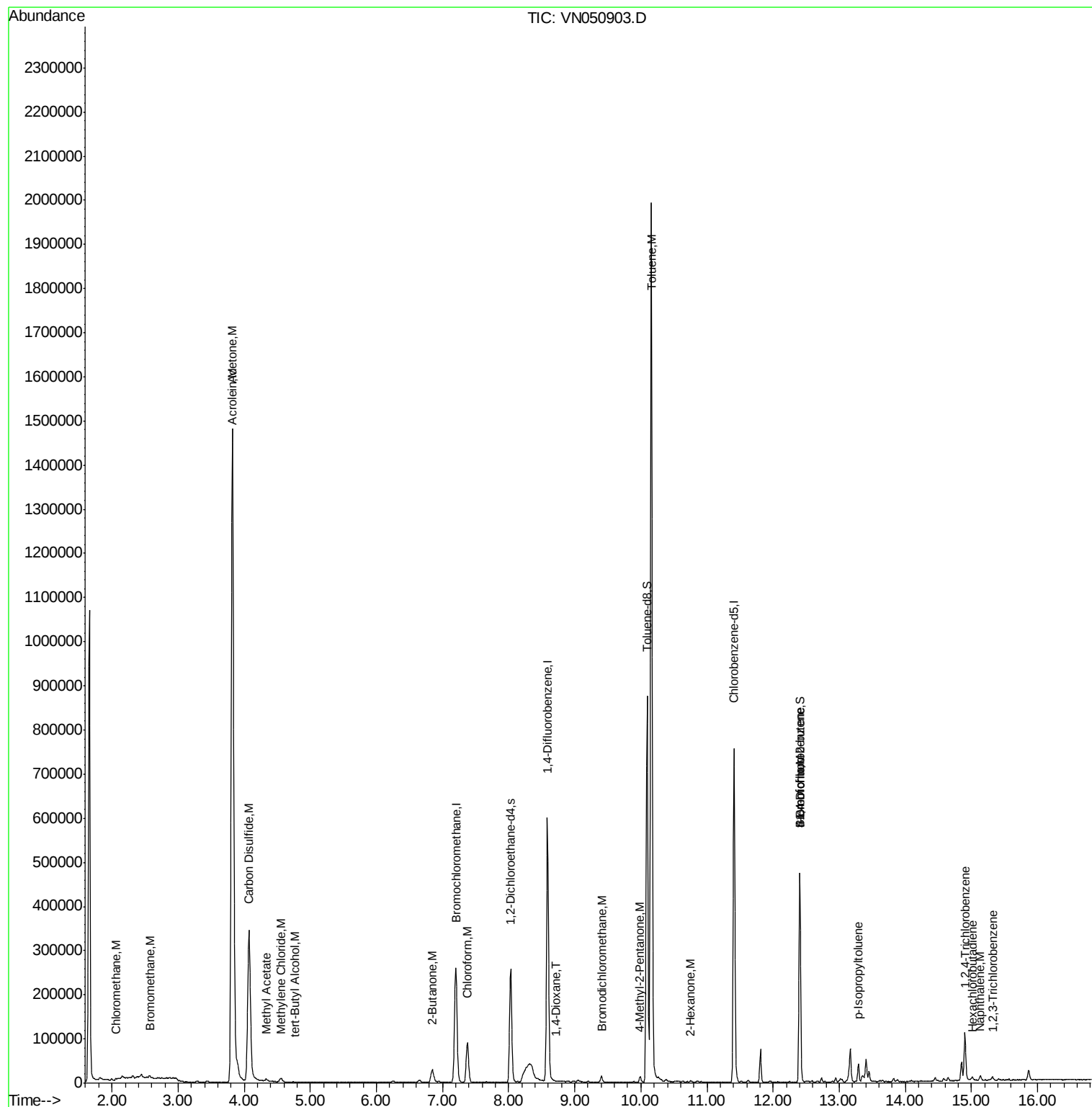
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.06	50	2273	0.29	ug/l	# 85
5) Bromomethane	2.56	94	2988	0.60	ug/l	89
12) Methyl Acetate	4.33	43	4481	0.68	ug/l	# 86
13) Acrolein	3.81	56	140	0.34	ug/l	97
15) Acetone	3.82	58	852126	1448.21	ug/l	87
16) Carbon Disulfide	4.05	76	8534	0.48	ug/l	99
18) Methylene Chloride	4.55	84	3430	0.51	ug/l	94
23) tert-Butyl Alcohol	4.77	59	270	0.55	ug/l	# 100
25) Chloroform	7.37	83	97108	8.13	ug/l	97
30) 2-Butanone	6.84	43	40031	14.69	ug/l	98
41) Bromodichloromethane	9.41	83	9532	1.05	ug/l	95
45) 1,4-Dioxane	8.72	88	93	1.34	ug/l	# 38
56) Bromoform	12.40	173	1911	0.39	ug/l	# 1
58) 4-Methyl-2-Pentanone	9.99	43	9927	1.81	ug/l	93
59) 2-Hexanone	10.75	43	1564	0.42	ug/l	# 55
62) Toluene	10.16	91	1598201	59.28	ug/l	99
77) t-1,4-Dichloro-2-butene	12.40	75	77110	37.44	ug/l	# 14
82) p-Isopropyltoluene	13.29	119	16827	0.77	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	2619	0.45	ug/l	97
90) Hexachlorobutadiene	15.01	225	1611	0.42	ug/l	98
91) Naphthalene	15.14	128	7437	8.05	ug/l	# 87
92) 1,2,3-Trichlorobenzene	15.32	180	3089	0.52	ug/l	97

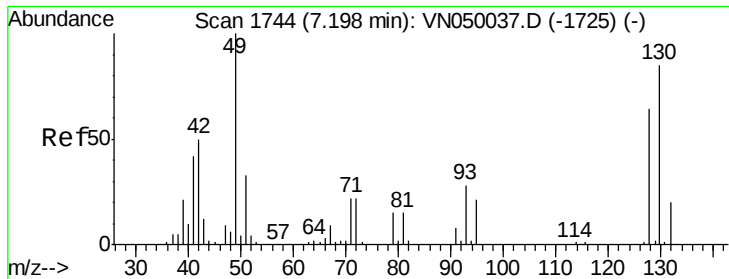
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)

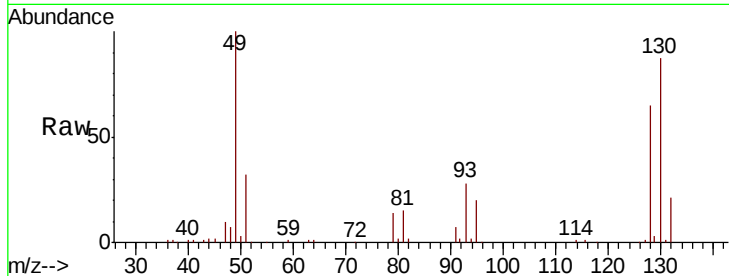
Tot Ion:128 Resp: 108638

Ion Ratio Lower Upper

128 100

49 150.6 0.0 378.3

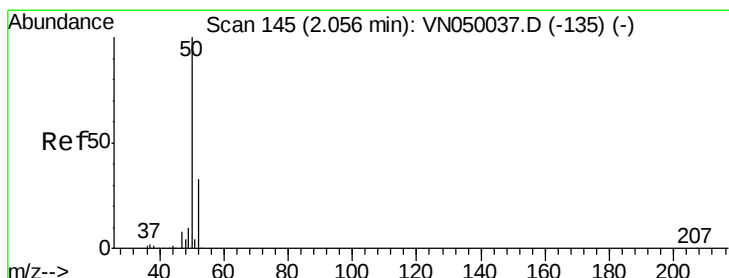
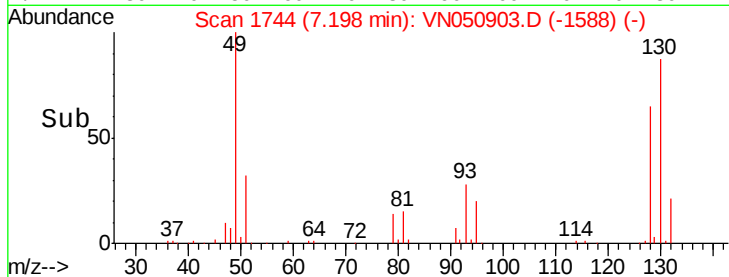
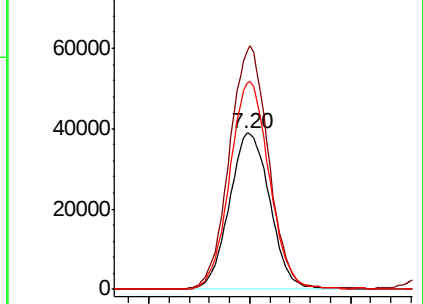
130 129.8 0.0 320.7



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: 0.29 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050903.D

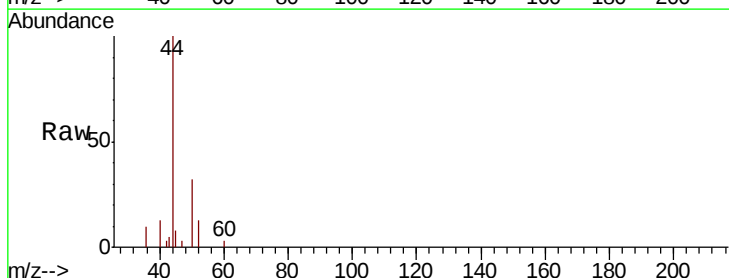
Acq: 27 Aug 2018 18:39

Tgt Ion: 50 Resp: 2273

Ion Ratio Lower Upper

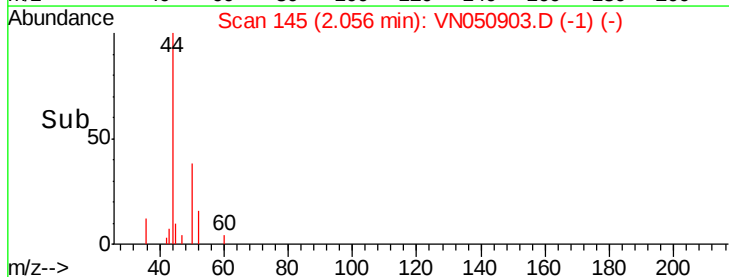
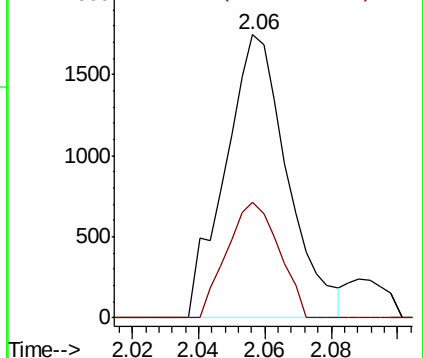
50 100

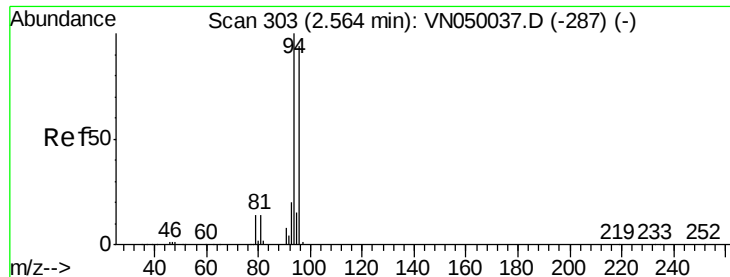
52 41.0 26.1 39.1#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.60 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

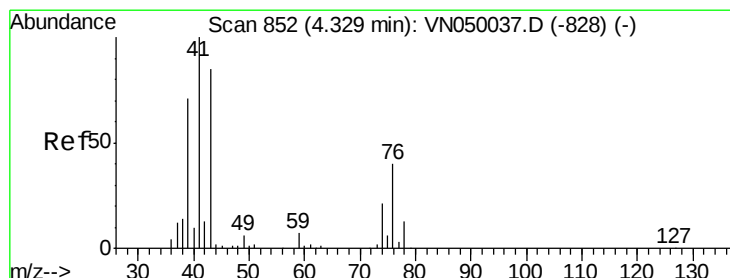
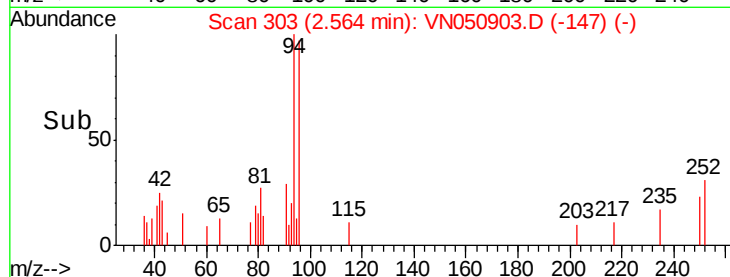
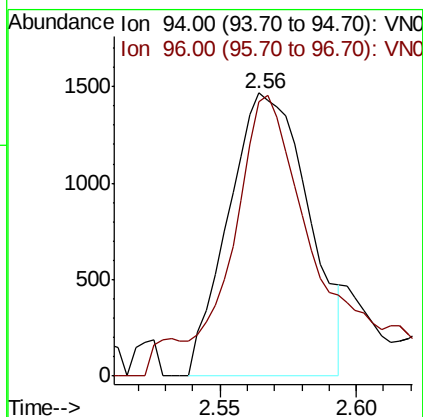
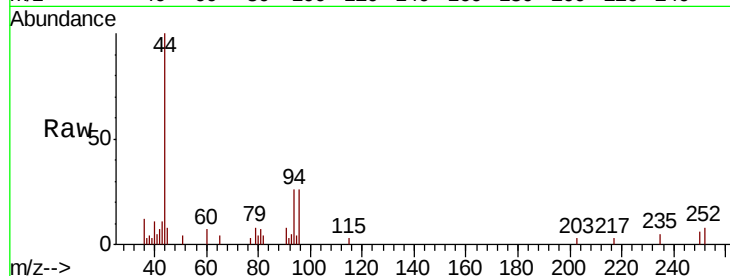
001M-WILLETS-PT-BLVD(JULY)

Tot Ion: 94 Resp: 2988

Ion Ratio Lower Upper

94 100

96 84.3 75.9 113.9



#12

Methyl Acetate

Concen: 0.68 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN050903.D

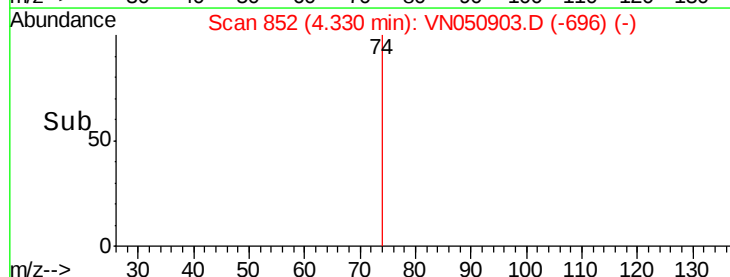
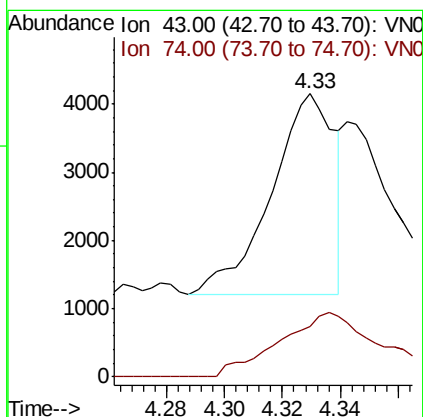
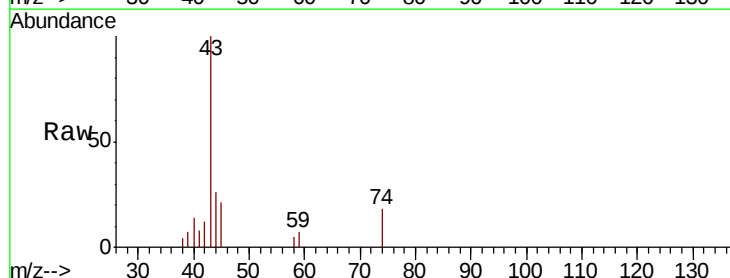
Acq: 27 Aug 2018 18:39

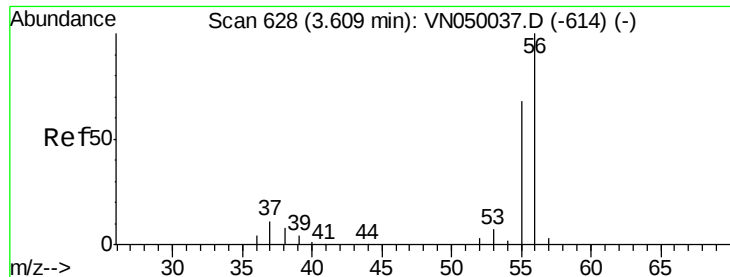
Tgt Ion: 43 Resp: 4481

Ion Ratio Lower Upper

43 100

74 17.0 19.3 28.9#





#13

Acrolein

Concen: 0.34 ug/l

RT: 3.81 min Scan# 689

Delta R.T. 0.20 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

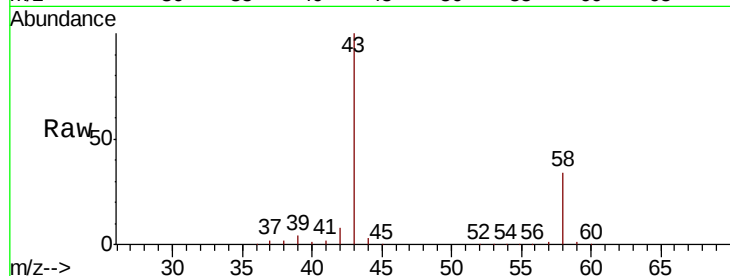
001M-WILLETS-PT-BLVD(JULY)

Tot Ion: 56 Resp: 140

Ion Ratio Lower Upper

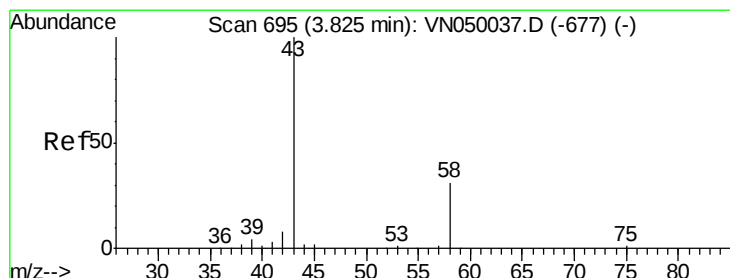
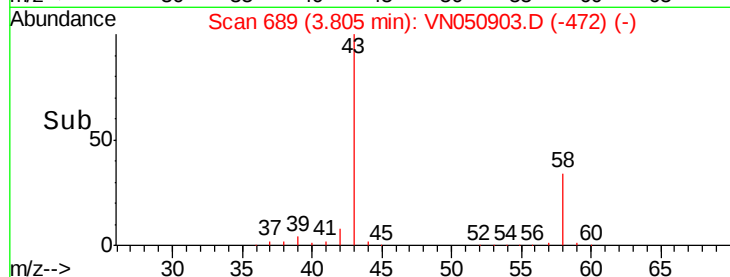
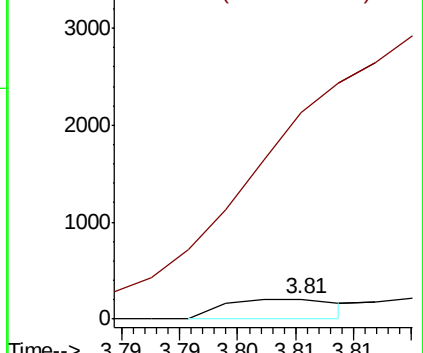
56 100

55 70.7 58.6 88.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 1448.21 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050903.D

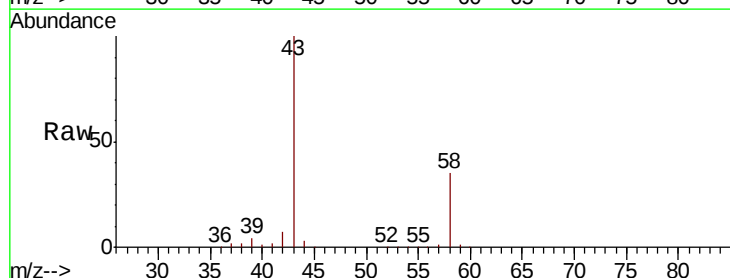
Acq: 27 Aug 2018 18:39

Tgt Ion: 58 Resp: 852126

Ion Ratio Lower Upper

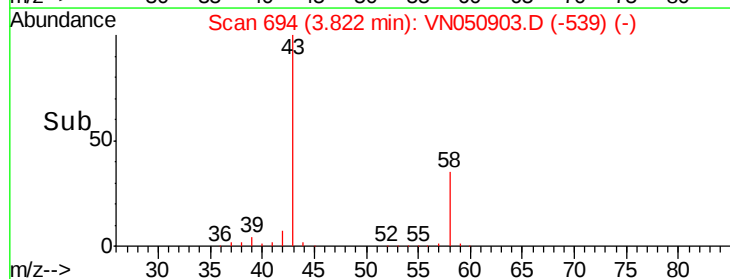
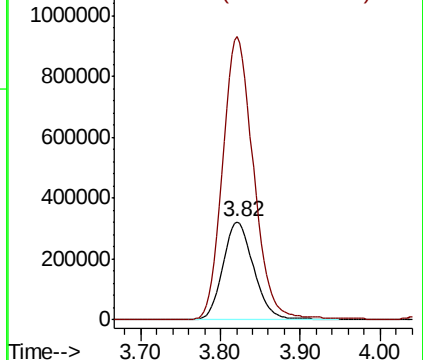
58 100

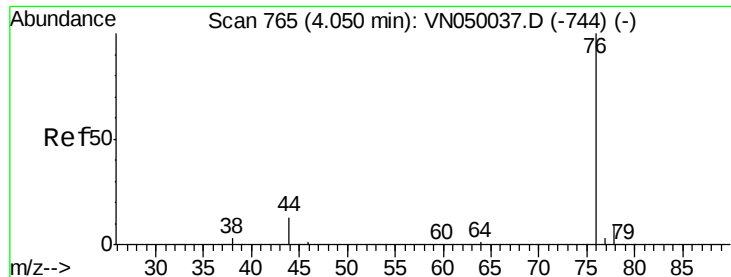
43 287.9 252.0 378.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.48 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

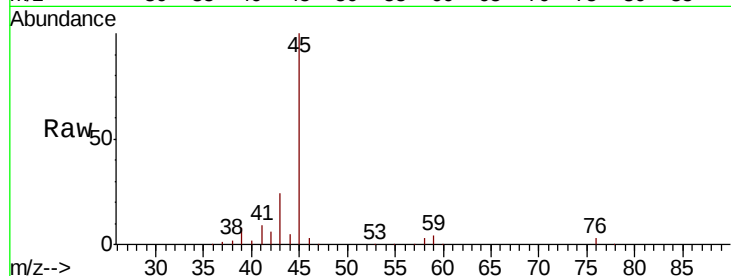
001M-WILLETS-PT-BLVD(JULY)

Tot Ion: 76 Resp: 8534

Ion Ratio Lower Upper

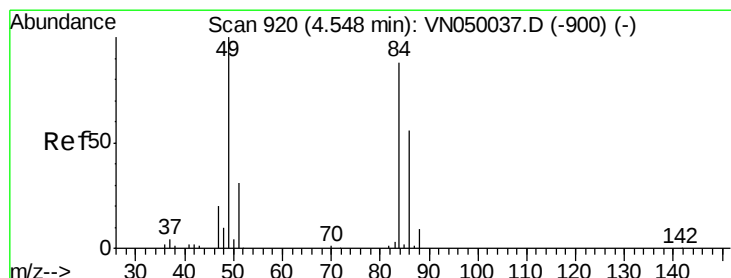
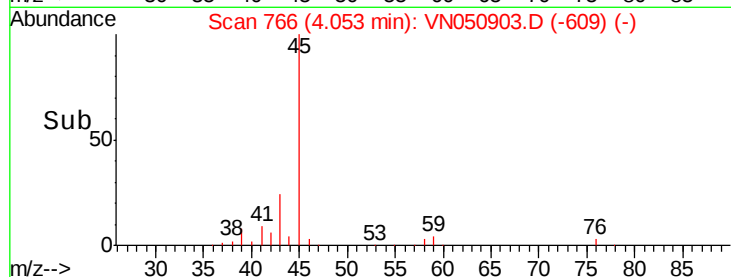
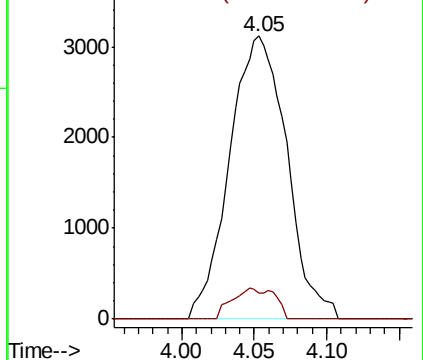
76 100

78 9.4 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0



#18

Methylene Chloride

Concen: 0.51 ug/l

RT: 4.55 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Tgt Ion: 84 Resp: 3430

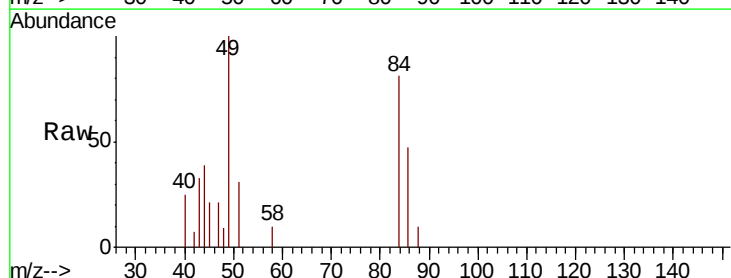
Ion Ratio Lower Upper

84 100

49 123.5 95.1 142.7

51 38.4 28.8 43.2

86 58.5 52.3 78.5

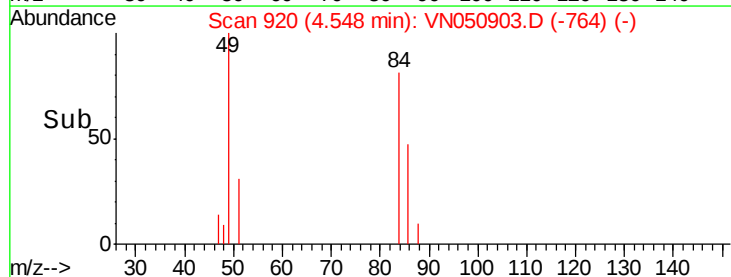
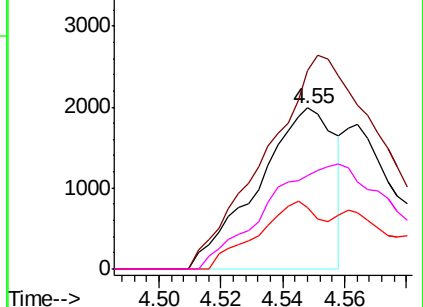


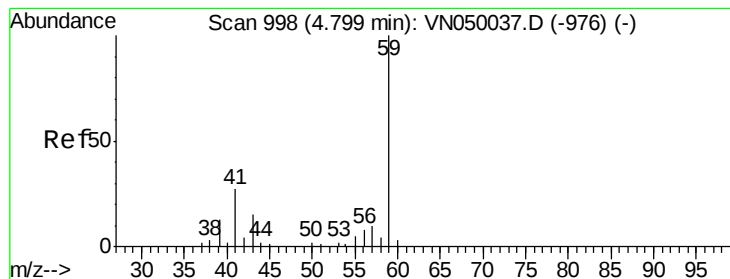
Abundance Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#23

tert-Butyl Alcohol

Concen: 0.55 ug/l

RT: 4.77 min Scan# 990

Delta R.T. -0.03 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

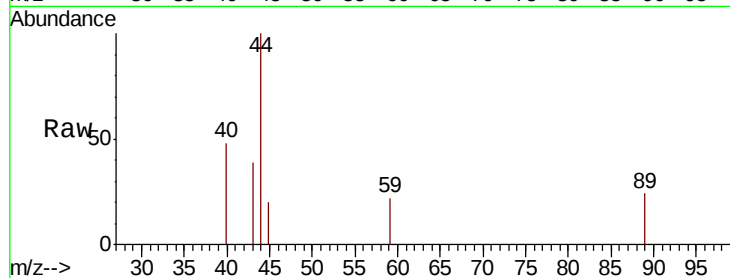
001M-WILLETS-PT-BLVD(JULY)

Tot Ion: 59 Resp: 270

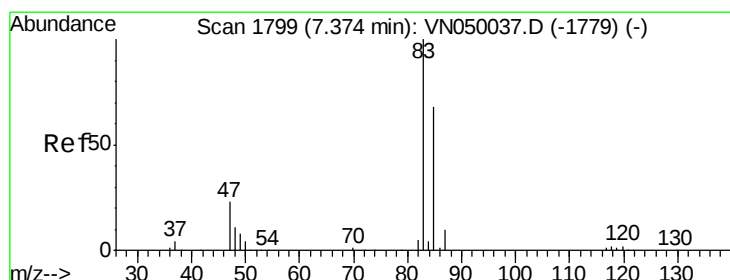
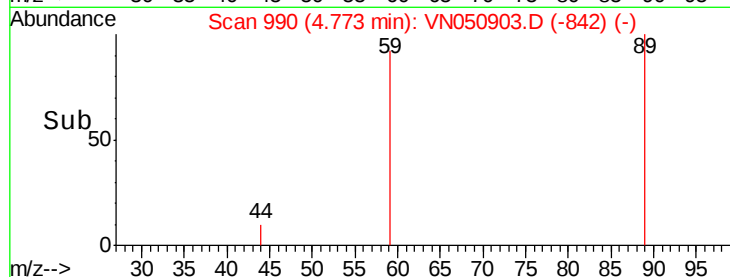
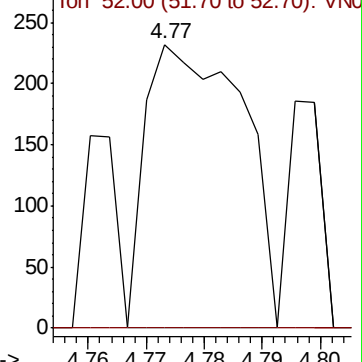
Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN050903.D (-842) (-)



#25

Chloroform

Concen: 8.13 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050903.D

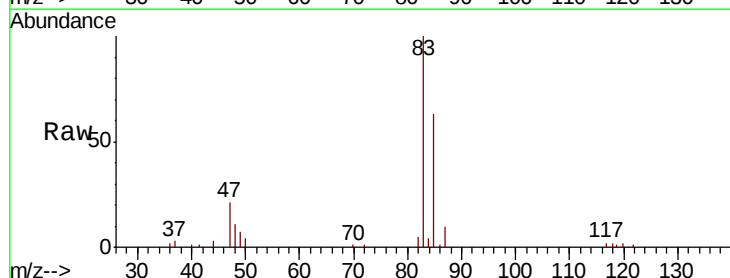
Acq: 27 Aug 2018 18:39

Tgt Ion: 83 Resp: 97108

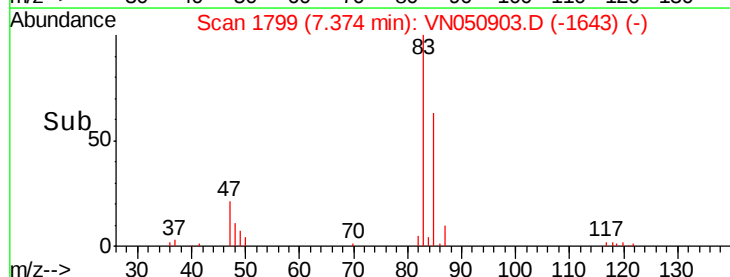
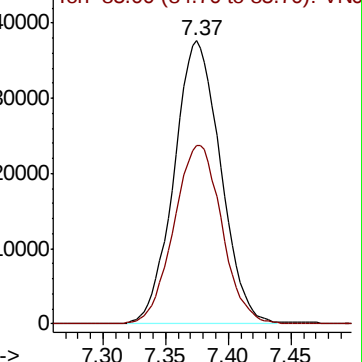
Ion Ratio Lower Upper

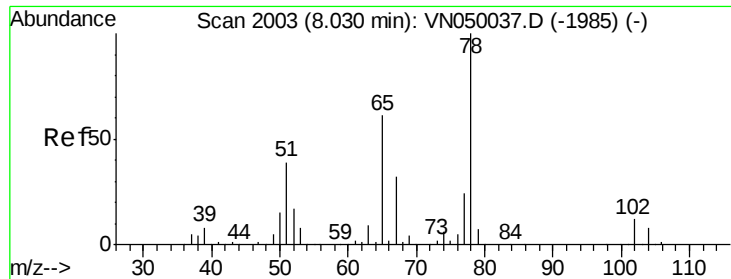
83 100

85 62.4 52.1 78.1



Abundance Ion 83.00 (82.70 to 83.70): VN050903.D (-1643) (-)

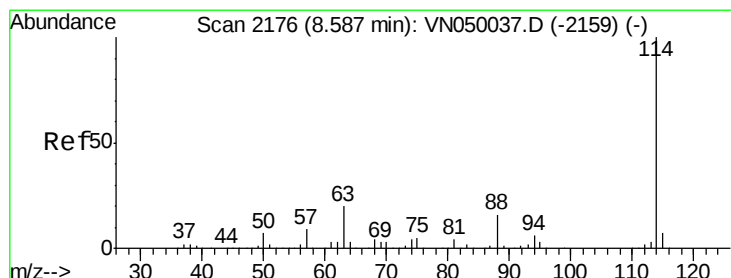
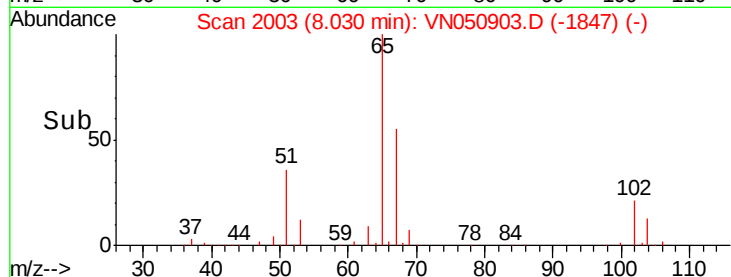
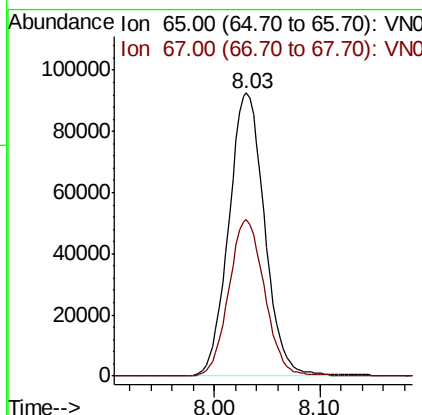
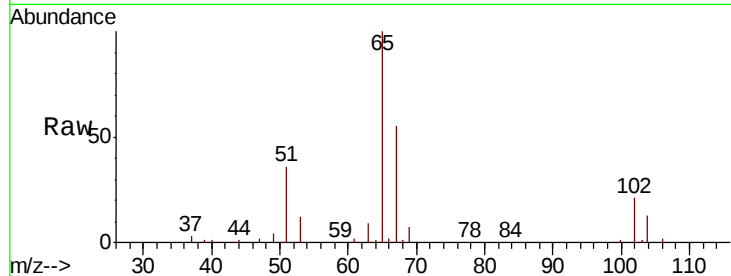




#27
 1,2-Dichloroethane-d4
 Concen: 29.49 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050903.D
 Acq: 27 Aug 2018 18:39

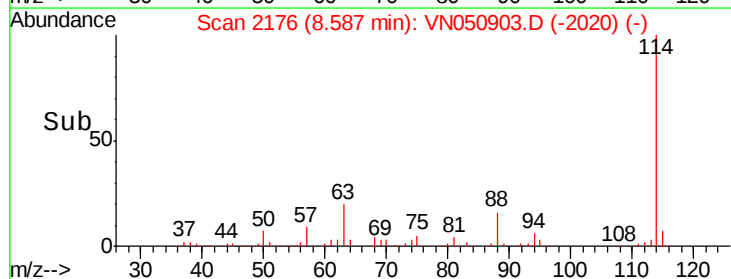
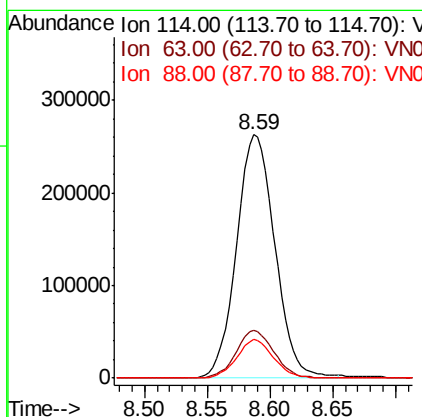
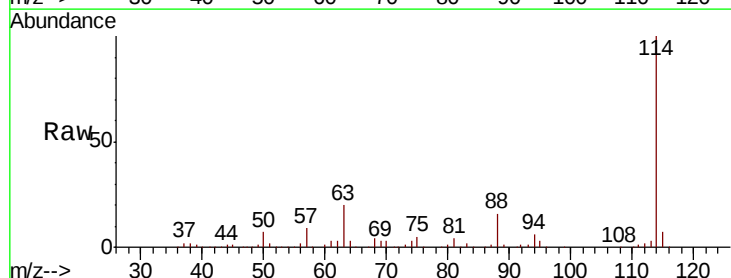
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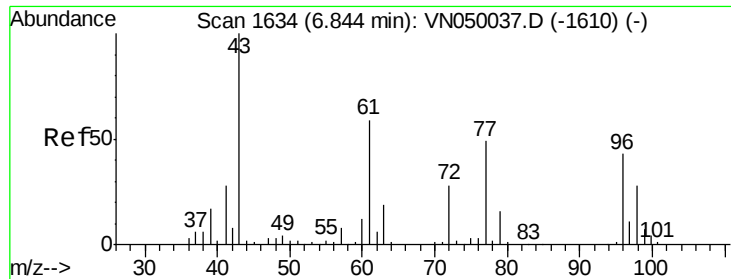
Tot Ion: 65 Resp: 217781
 Ion Ratio Lower Upper
 65 100
 67 55.4 42.7 64.1



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050903.D
 Acq: 27 Aug 2018 18:39

Tgt Ion: 114 Resp: 559642
 Ion Ratio Lower Upper
 114 100
 63 19.3 16.2 24.2
 88 15.2 12.3 18.5

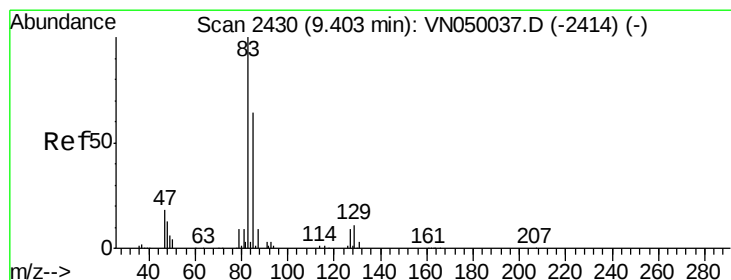
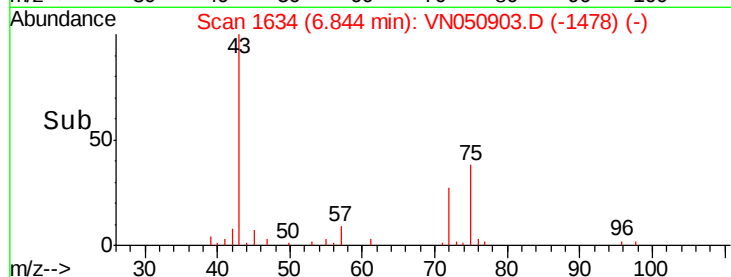
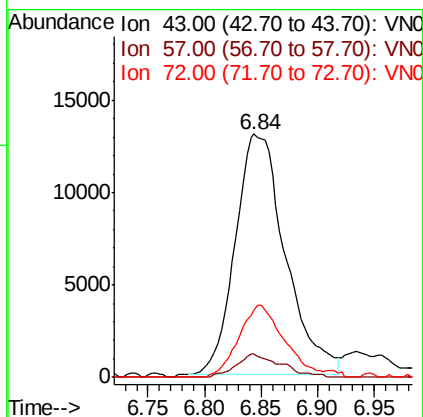
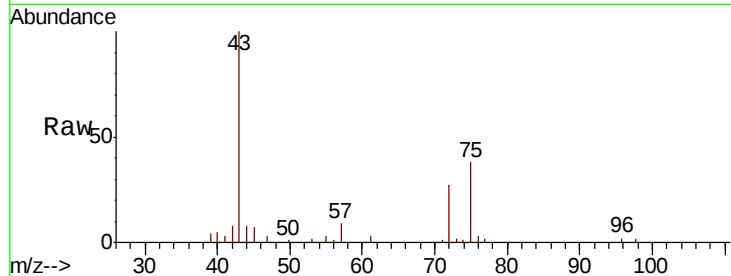




#30
2-Butanone
Concen: 14.69 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

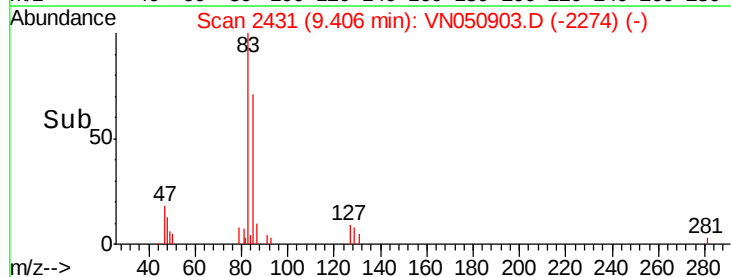
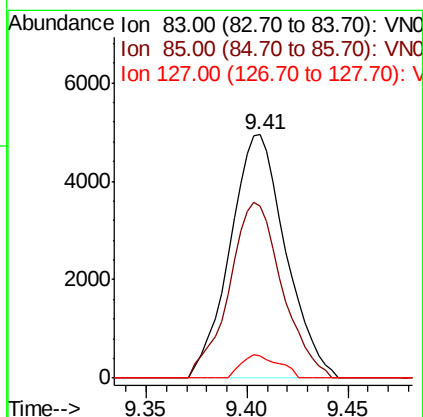
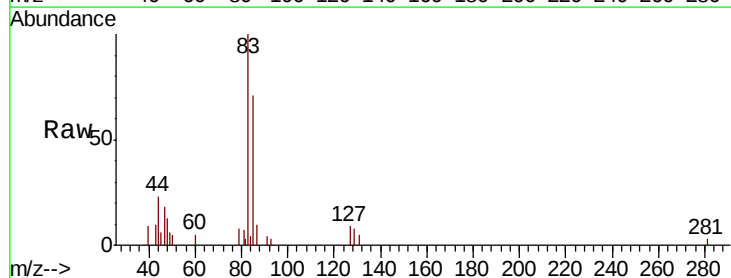
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(JULY)

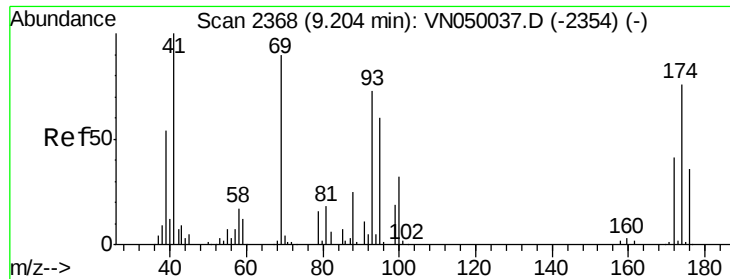
Tot Ion: 43 Resp: 40031
Ion Ratio Lower Upper
43 100
57 6.9 6.8 10.2
72 27.1 21.4 32.0



#41
Bromodichloromethane
Concen: 1.05 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

Tgt Ion: 83 Resp: 9532
Ion Ratio Lower Upper
83 100
85 70.5 52.6 78.8
127 8.9 7.0 10.4





#45

1,4-Dioxane

Concen: 1.34 ug/l

RT: 8.72 min Scan# 2217

Delta R.T. -0.49 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)

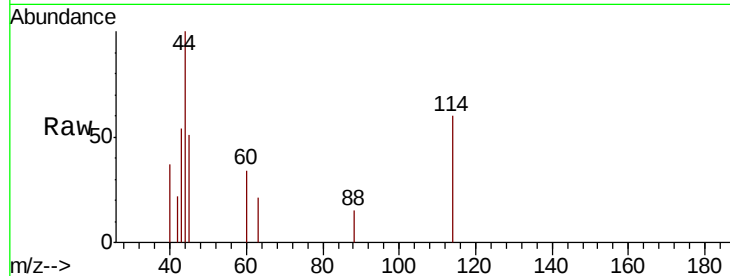
Tot Ion: 88 Resp: 93

Ion Ratio Lower Upper

88 100

43 45.2 26.9 40.3#

58 0.0 53.6 80.4#



Abundance Ion 88.00 (87.70 to 88.70): VN050903.D (-2212) (-)

Ion 43.00 (42.70 to 43.70): VN050903.D (-2212) (-)

Ion 58.00 (57.70 to 58.70): VN050903.D (-2212) (-)

800

600

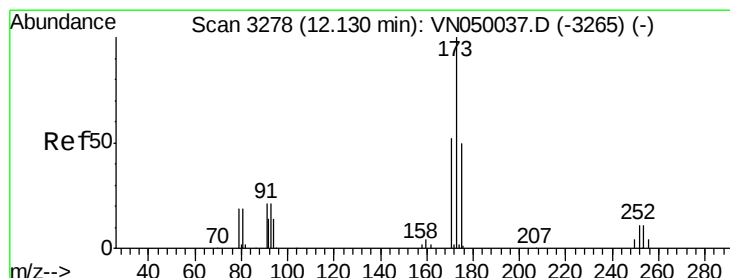
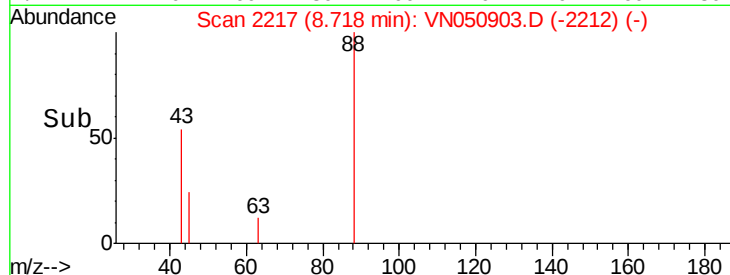
400

200

0

8.71 8.71 8.72 8.72

Time-->



#56

Bromoform

Concen: 0.39 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

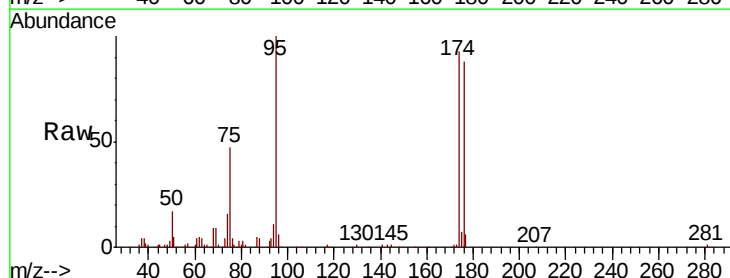
Tgt Ion:173 Resp: 1911

Ion Ratio Lower Upper

173 100

175 570.3 38.6 57.8#

254 0.0 8.8 13.2#



Abundance Ion 173.00 (172.70 to 173.70): VN050903.D (-3122) (-)

Ion 175.00 (174.70 to 175.70): VN050903.D (-3122) (-)

Ion 254.00 (253.70 to 254.70): VN050903.D (-3122) (-)

8000

6000

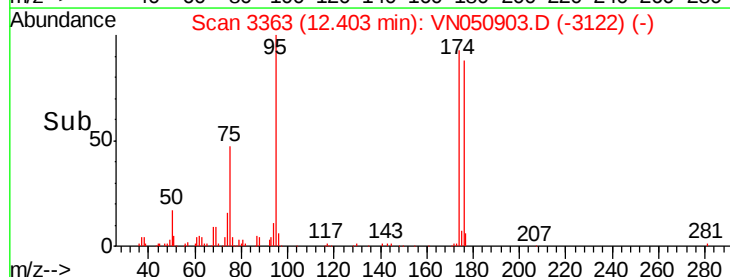
4000

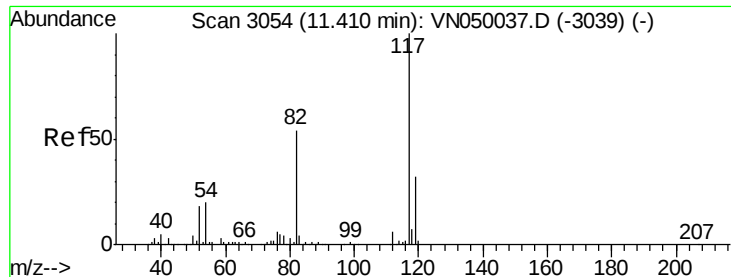
2000

0

12.36 12.38 12.40 12.42

Time-->

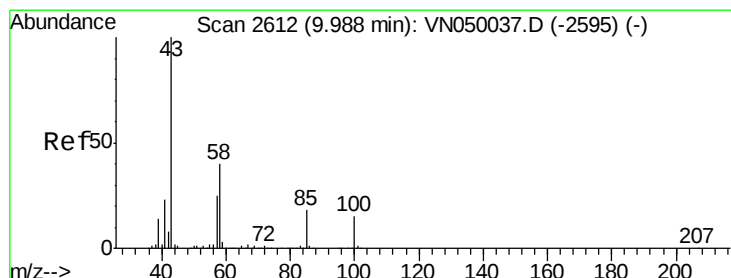
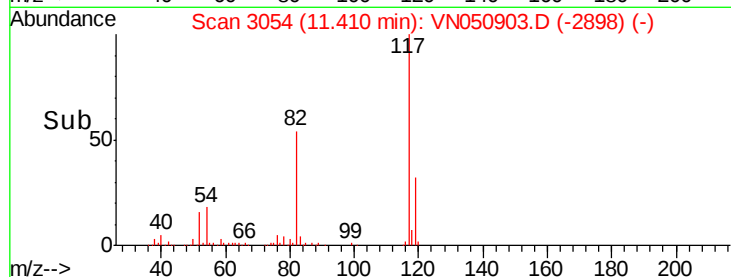
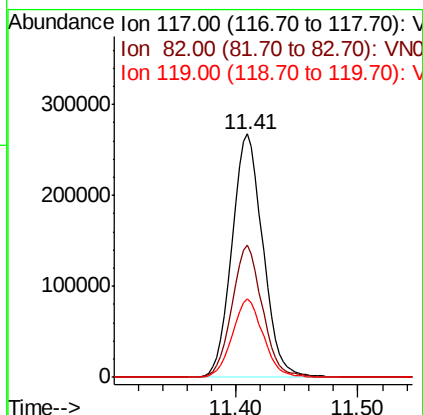
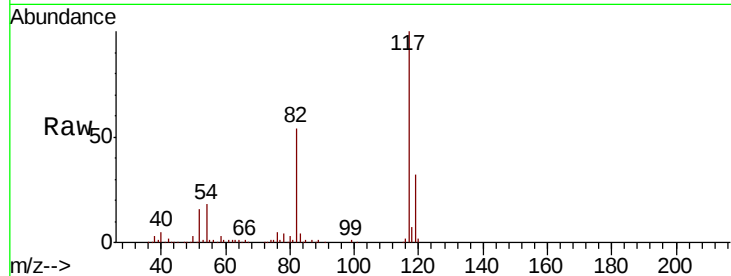




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

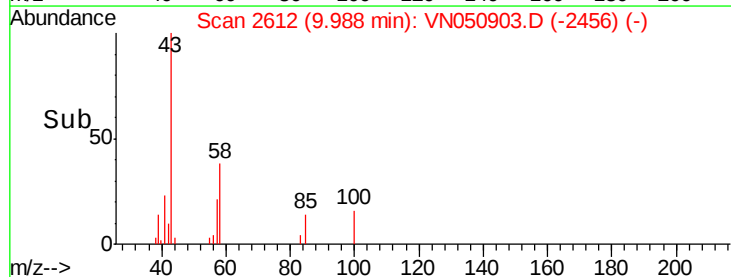
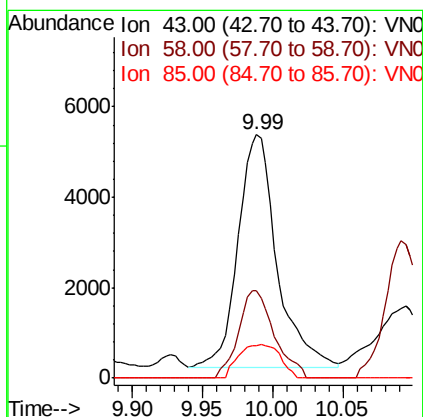
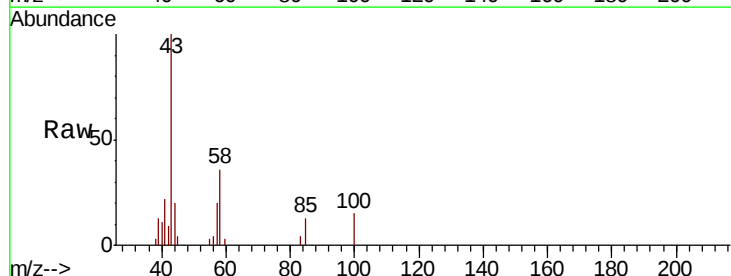
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(JULY)

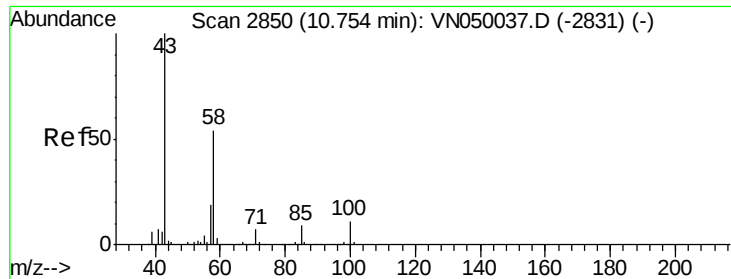
Tot Ion:117 Resp: 472513
Ion Ratio Lower Upper
117 100
82 53.2 42.4 63.6
119 32.2 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 1.81 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

Tgt Ion: 43 Resp: 9927
Ion Ratio Lower Upper
43 100
58 34.5 31.2 46.8
85 15.4 14.4 21.6

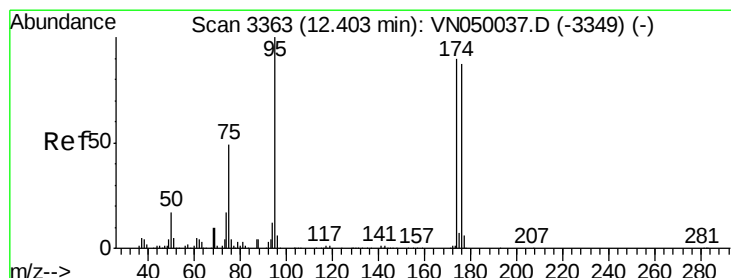
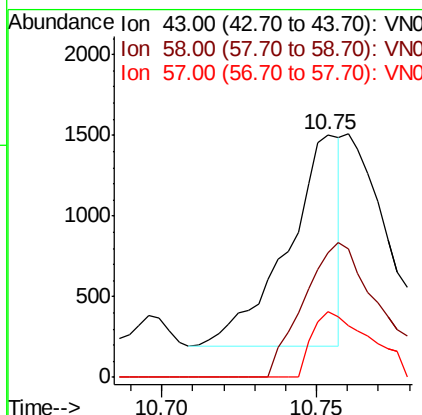
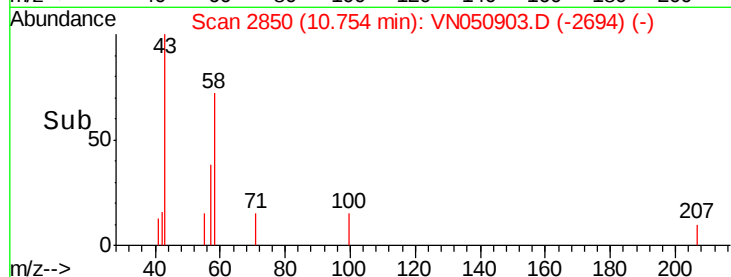
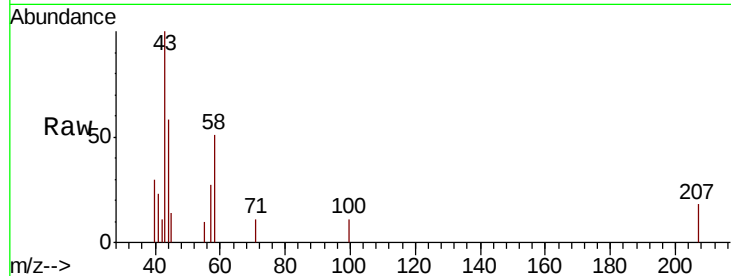




#59
2-Hexanone
Concen: 0.42 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

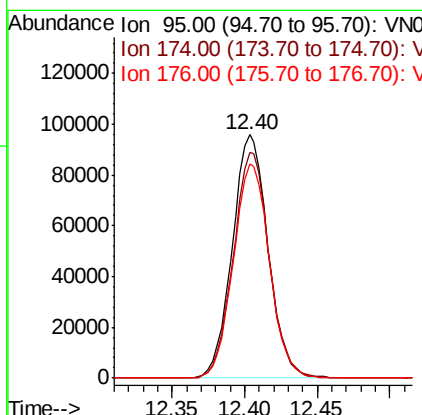
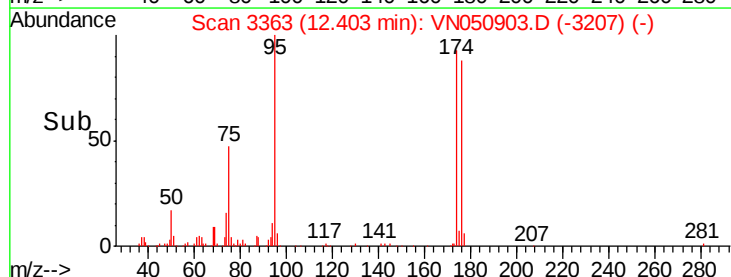
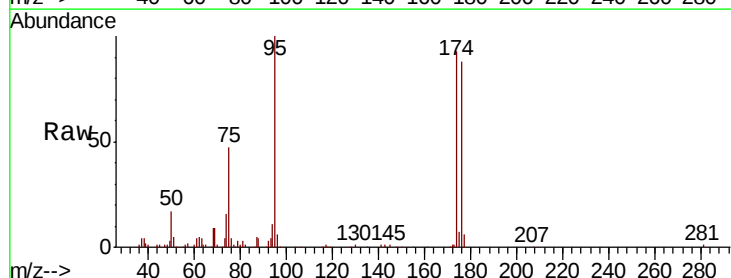
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(JULY)

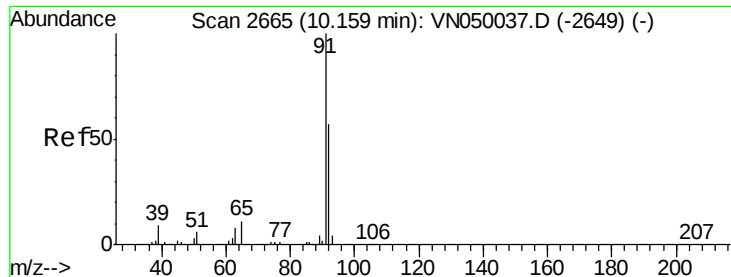
Tot Ion: 43 Resp: 1564
Ion Ratio Lower Upper
43 100
58 90.2 43.8 65.8#
57 34.2 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 22.57 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

Tgt Ion: 95 Resp: 163872
Ion Ratio Lower Upper
95 100
174 93.4 72.3 108.5
176 88.9 70.0 105.0





#62

Toluene

Concen: 59.28 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

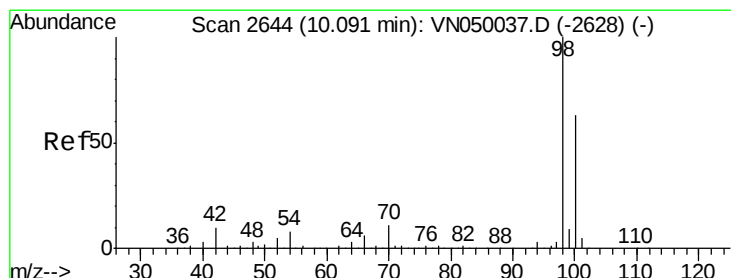
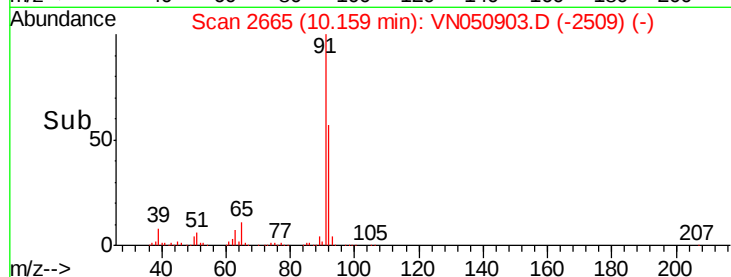
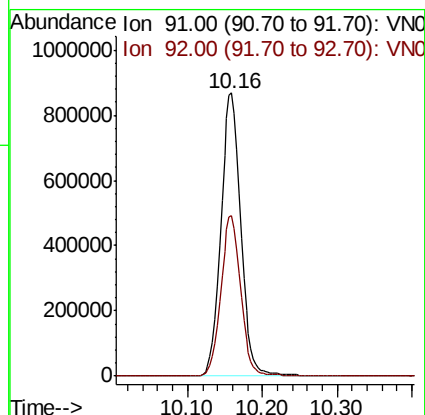
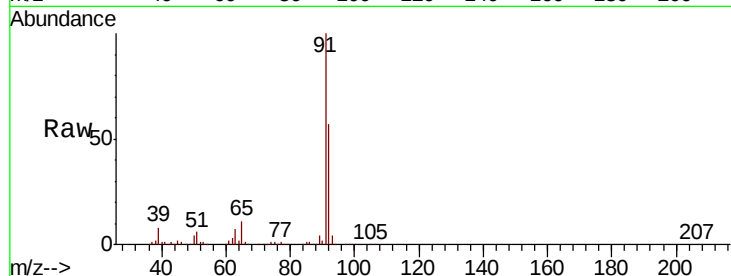
001M-WILLETS-PT-BLVD(JULY)

Tot Ion: 91 Resp: 1598201

Ion Ratio Lower Upper

91 100

92 56.5 45.7 68.5



#63

Toluene-d8

Concen: 28.74 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050903.D

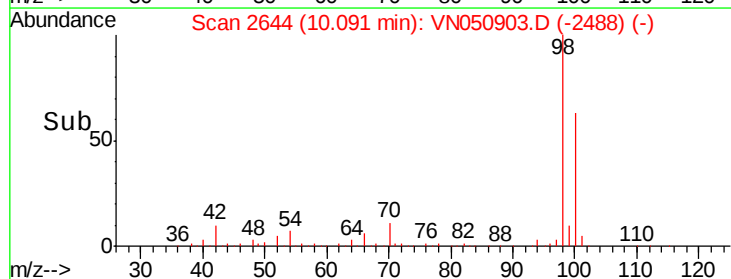
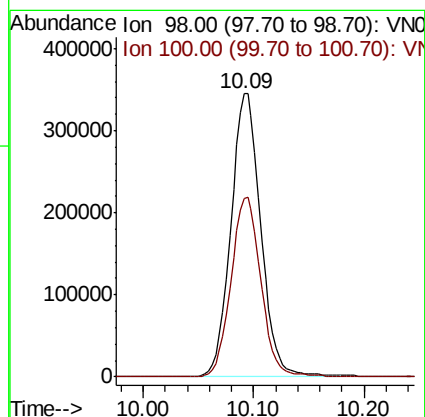
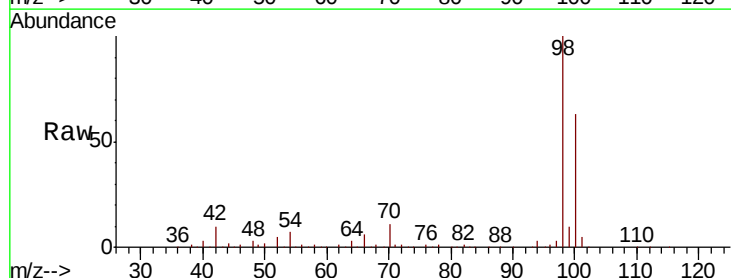
Acq: 27 Aug 2018 18:39

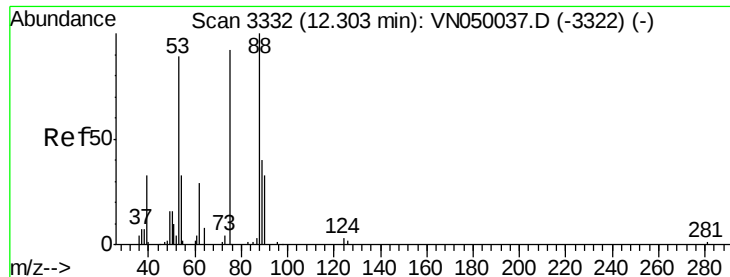
Tgt Ion: 98 Resp: 648656

Ion Ratio Lower Upper

98 100

100 63.2 51.2 76.8

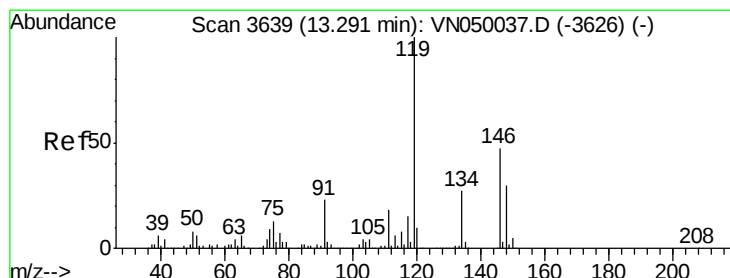
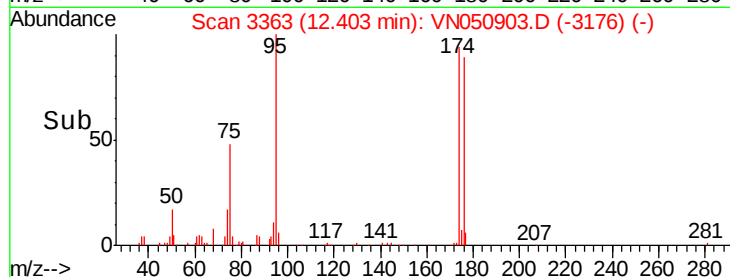
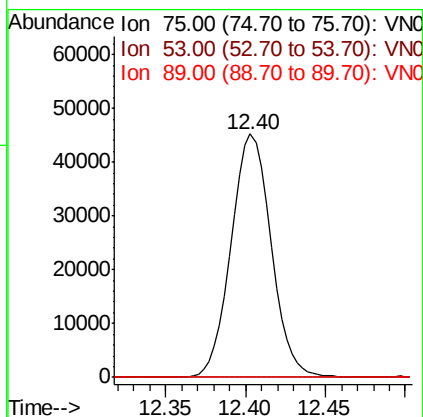
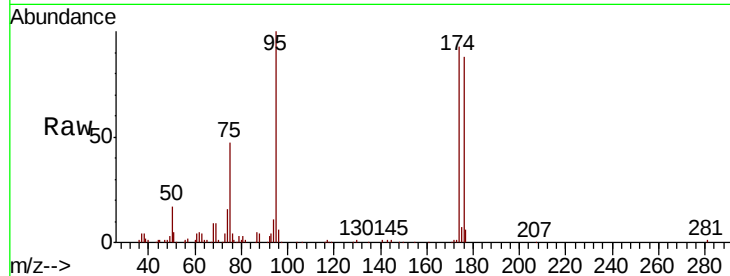




#77
t-1,4-Dichloro-2-butene
Concen: 37.44 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

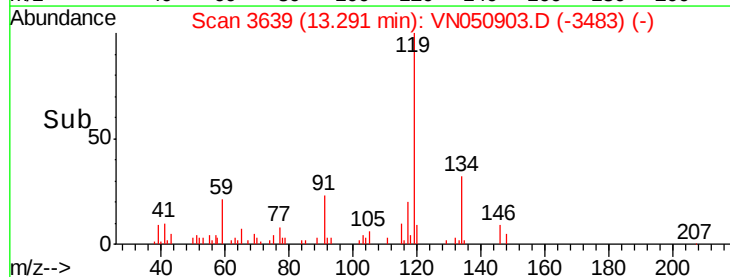
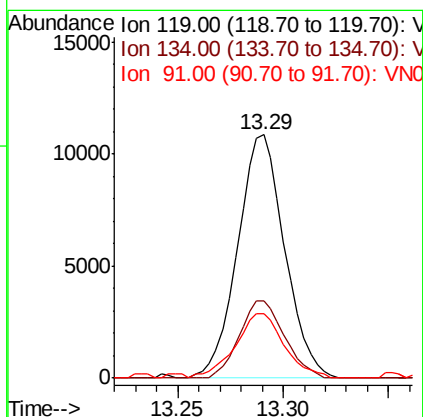
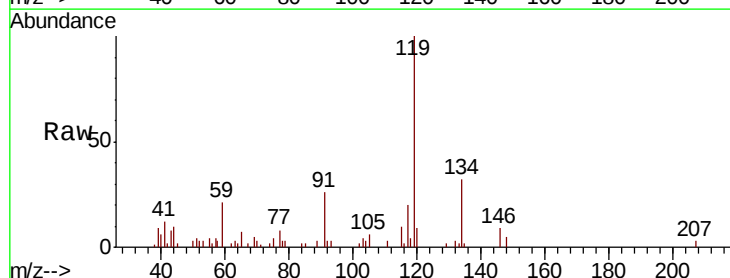
Instrument :
MSVOA_N
ClientSampleId :
001M-WILLETS-PT-BLVD(JULY)

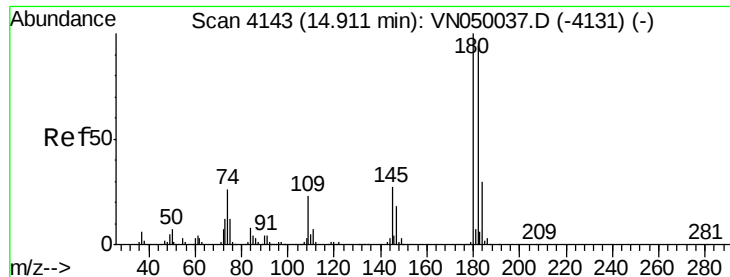
Tot Ion: 75 Resp: 77110
Ion Ratio Lower Upper
75 100
53 0.0 44.6 134.0#
89 0.0 20.7 62.1#



#82
p-Isopropyltoluene
Concen: 0.77 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.00 min
Lab File: VN050903.D
Acq: 27 Aug 2018 18:39

Tgt Ion: 119 Resp: 16827
Ion Ratio Lower Upper
119 100
134 30.3 0.0 52.2
91 27.7 0.0 45.6





#89

1,2,4-Trichlorobenzene

Concen: 0.45 ug/l

RT: 14.91 min Scan# 4142

Delta R.T. -0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)

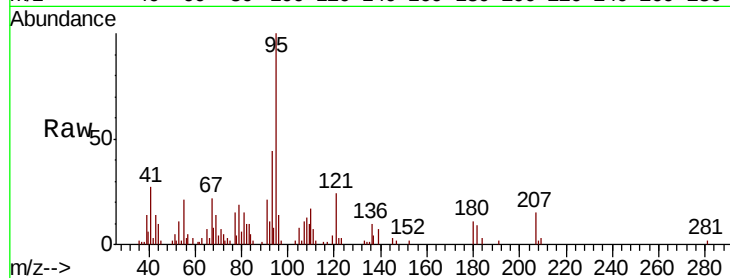
Tot Ion:180 Resp: 2619

Ion Ratio Lower Upper

180 100

182 97.2 76.7 115.1

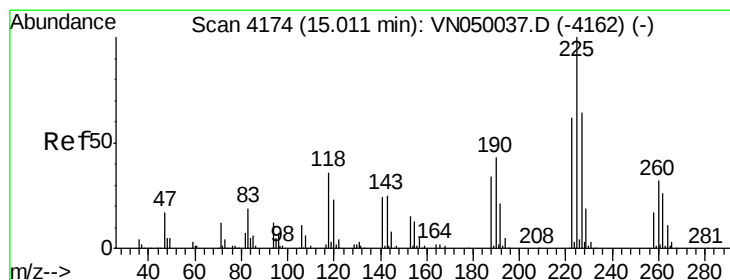
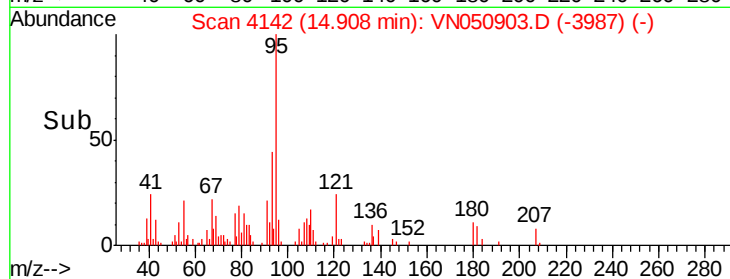
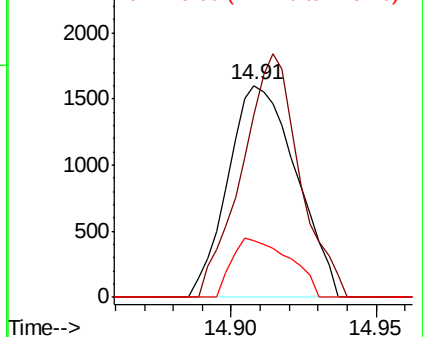
145 23.6 23.4 35.0



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: 0.42 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

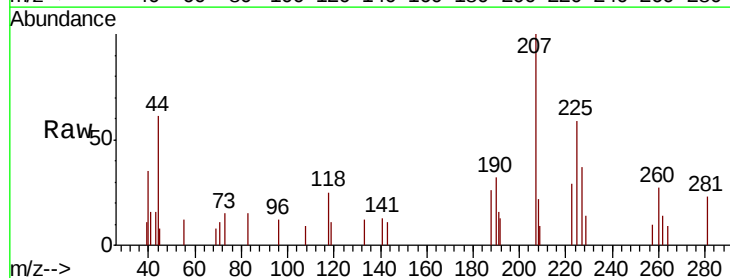
Tgt Ion:225 Resp: 1611

Ion Ratio Lower Upper

225 100

223 60.5 0.0 124.4

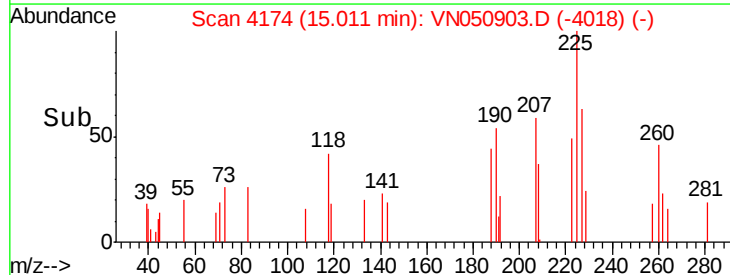
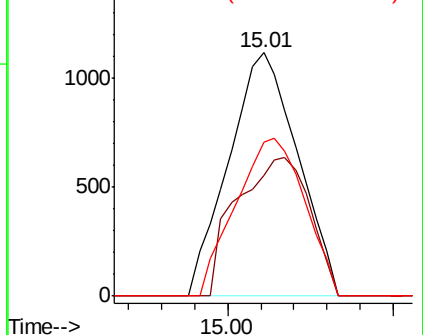
227 64.9 0.0 133.0

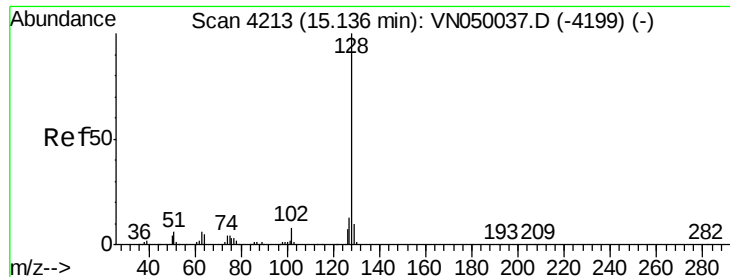


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#91

Naphthalene

Concen: 8.05 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JULY)

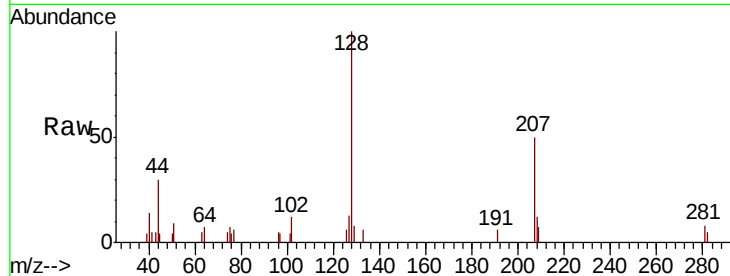
Tot Ion:128 Resp: 7437

Ion Ratio Lower Upper

128 100

127 7.9 10.2 15.4#

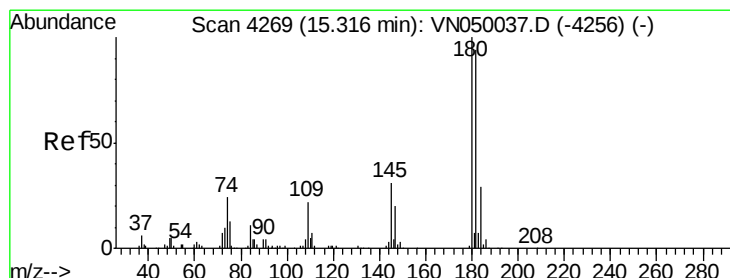
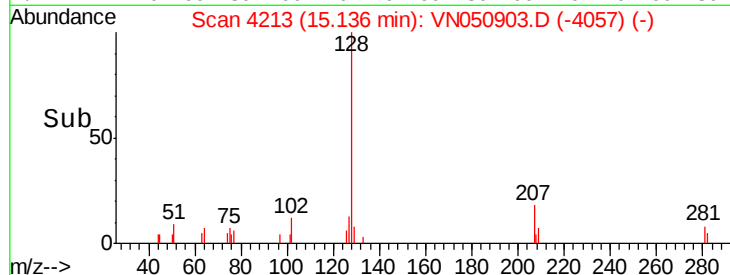
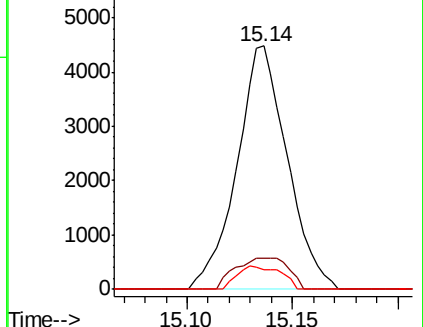
129 6.0 9.0 13.4#



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: 0.52 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050903.D

Acq: 27 Aug 2018 18:39

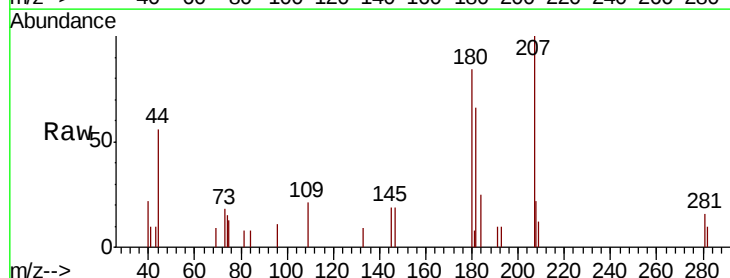
Tgt Ion:180 Resp: 3089

Ion Ratio Lower Upper

180 100

182 92.6 0.0 188.8

145 26.4 0.0 60.8



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

