

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN010419\
 Data File : VN053281.D
 Acq On : 4 Jan 2019 14:32
 Operator : MD\SY
 Sample : K1046-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 28

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

Quant Time: Jan 05 00:04:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	132276	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	760174	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	665925	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	254763	30.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.07%
60) 4-Bromofluorobenzene	12.40	95	295078	28.96	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.53%
63) Toluene-d8	10.09	98	888031	29.60	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.67%

Target Compounds

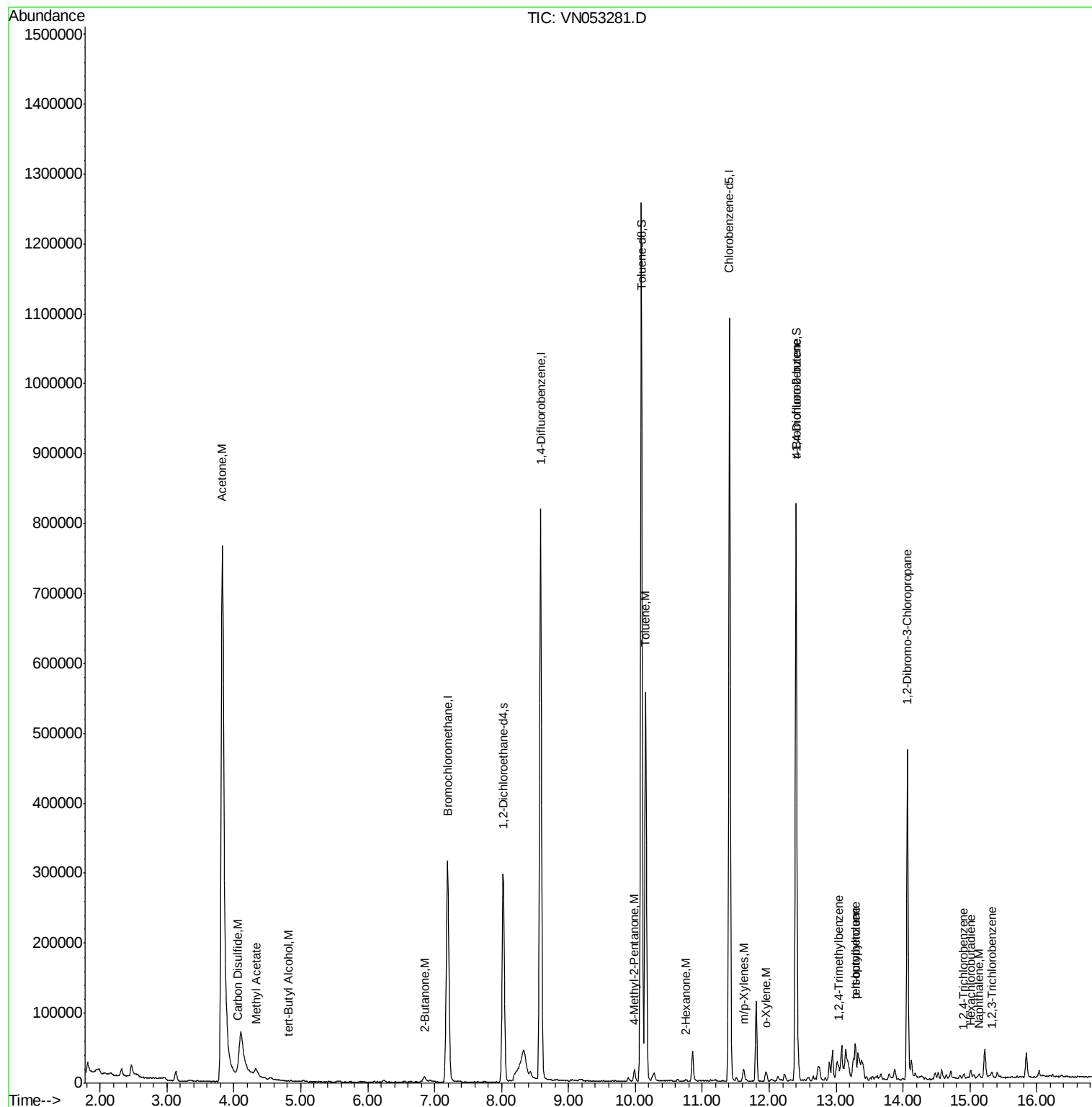
					Ovalue
12) Methyl Acetate	4.33	43	16148	2.688	ug/l 99
15) Acetone	3.83	58	566159	991.242	ug/l 93
16) Carbon Disulfide	4.05	76	12039	0.508	ug/l 97
23) tert-Butyl Alcohol	4.81	59	129	0.285	ug/l # 100
30) 2-Butanone	6.85	43	14103	4.909	ug/l # 96
58) 4-Methyl-2-Pentanone	9.99	43	12475	1.966	ug/l 97
59) 2-Hexanone	10.75	43	1347	0.307	ug/l 90
62) Toluene	10.15	91	433873	11.880	ug/l 99
67) m/p-Xylenes	11.62	106	5359	0.358	ug/l 94
68) o-Xylene	11.95	106	3015	0.208	ug/l 93
77) t-1,4-Dichloro-2-butene	12.40	75	136952	55.365	ug/l # 11
79) tert-butylbenzene	13.29	119	20816	0.788	ug/l 61
80) 1,2,4-Trimethylbenzene	13.04	105	11890	0.392	ug/l 91
82) p-Isopropyltoluene	13.29	119	20816	0.689	ug/l 98
88) 1,2-Dibromo-3-Chloropropan	14.07	75	336	0.292	ug/l # 1
89) 1,2,4-Trichlorobenzene	14.90	180	2400	0.318	ug/l # 82
90) Hexachlorobutadiene	15.01	225	2267	0.497	ug/l 93
91) Naphthalene	15.14	128	5528	0.346	ug/l 99
92) 1,2,3-Trichlorobenzene	15.31	180	2152	0.320	ug/l 86

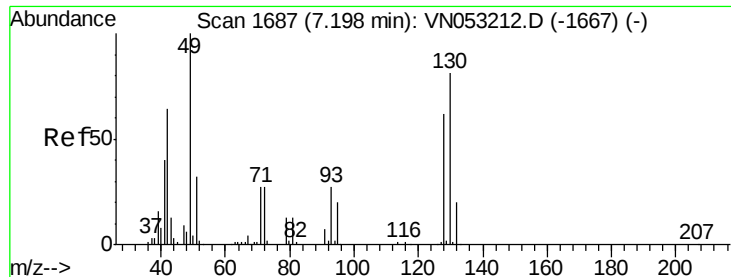
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 05 00:04:11 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 28 10:33:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. -0.01 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JAN)

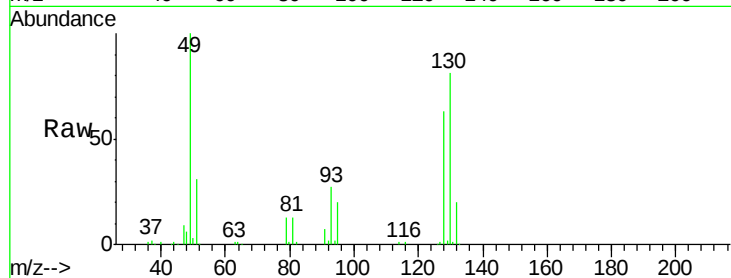
Tot Ion:128 Resp: 132276

Ion Ratio Lower Upper

128 100

49 154.5 0.0 431.8

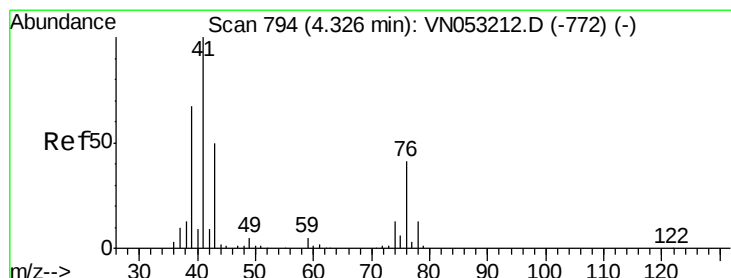
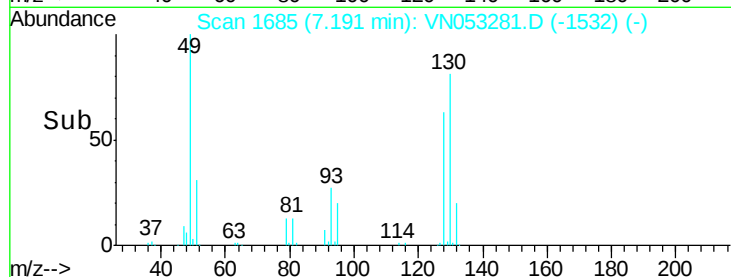
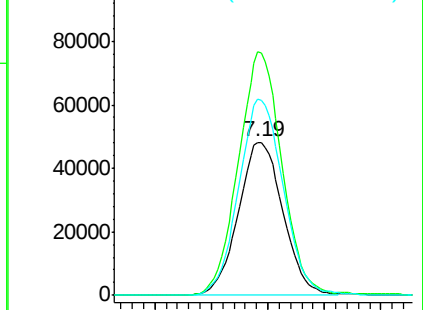
130 128.5 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 2.688 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN053281.D

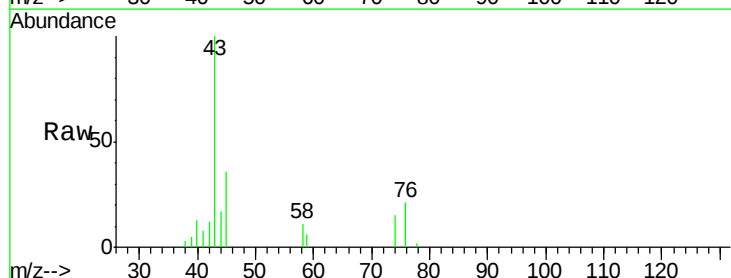
Acq: 4 Jan 2019 14:32

Tgt Ion: 43 Resp: 16148

Ion Ratio Lower Upper

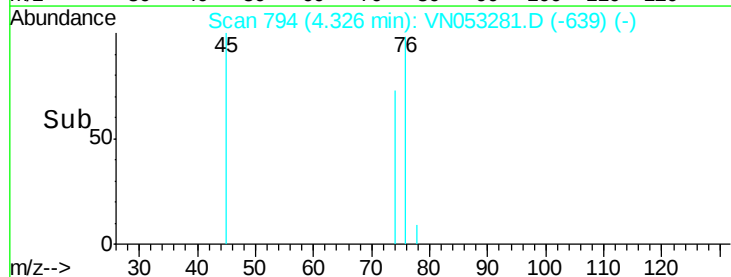
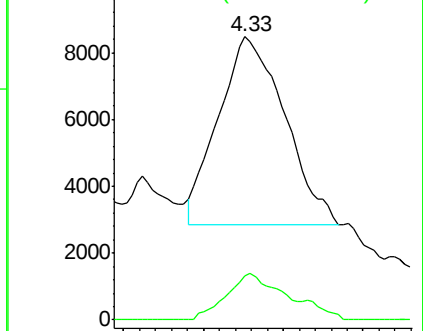
43 100

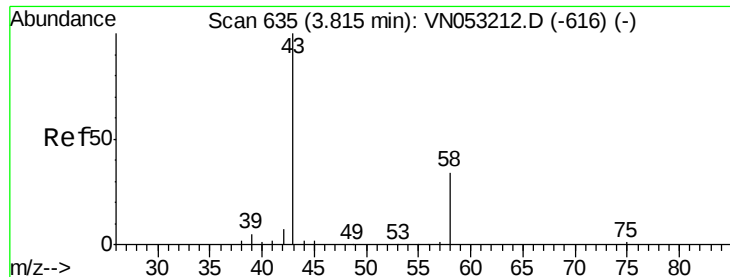
74 23.3 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO





#15

Acetone

Concen: 991.242 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

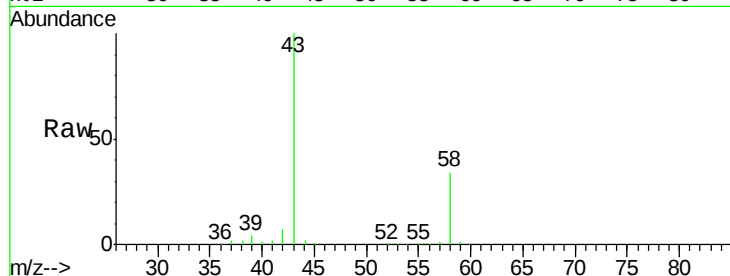
001M-WILLETS-PT-BLVD(JAN)

Tot Ion: 58 Resp: 566159

Ion Ratio Lower Upper

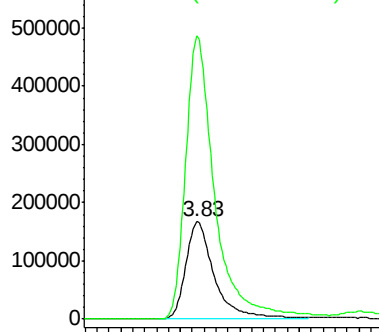
58 100

43 290.7 243.6 365.4

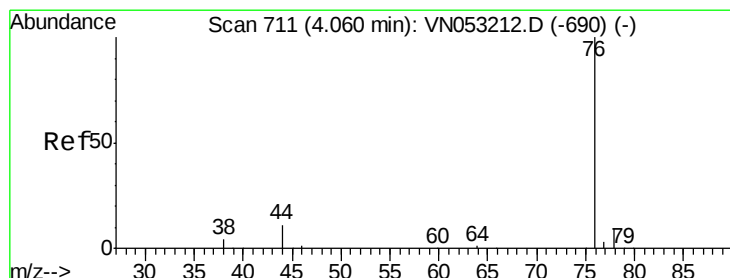
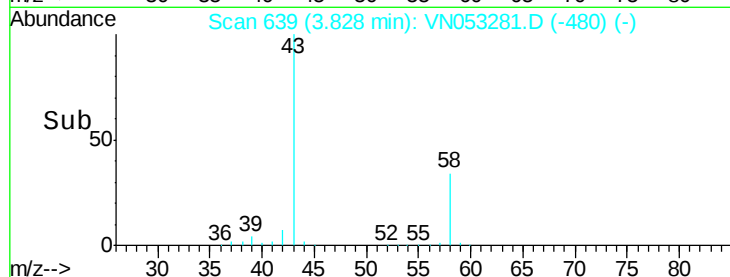


Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



Time-->



#16

Carbon Disulfide

Concen: 0.508 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.01 min

Lab File: VN053281.D

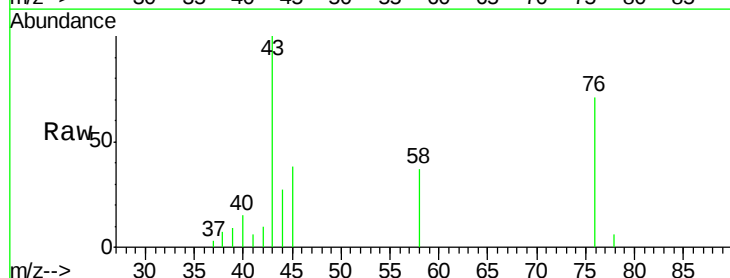
Acq: 4 Jan 2019 14:32

Tgt Ion: 76 Resp: 12039

Ion Ratio Lower Upper

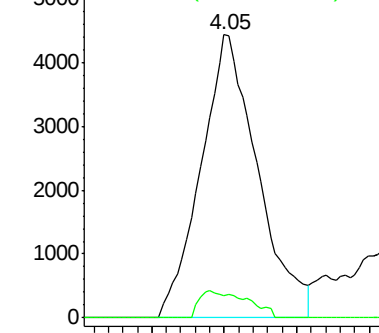
76 100

78 8.0 7.3 10.9

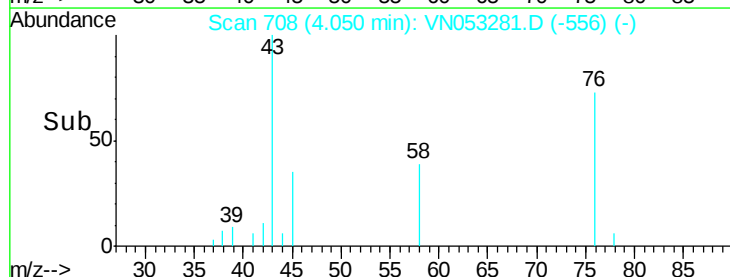


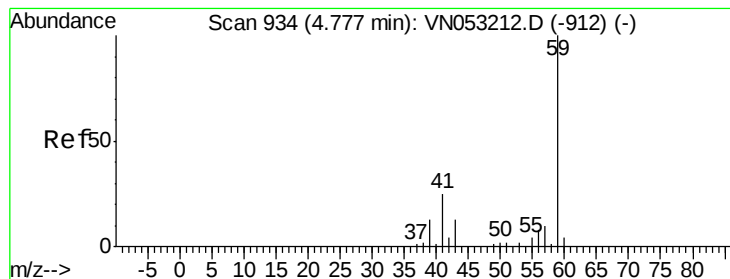
Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0



Time-->



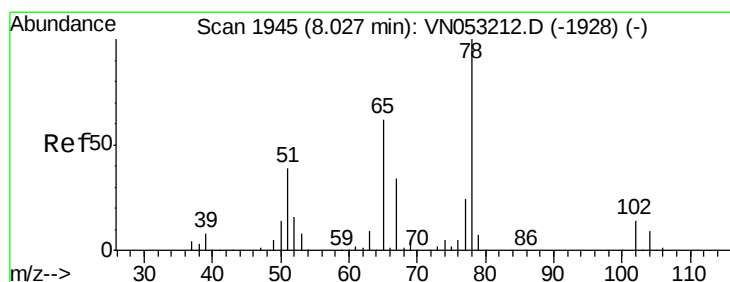
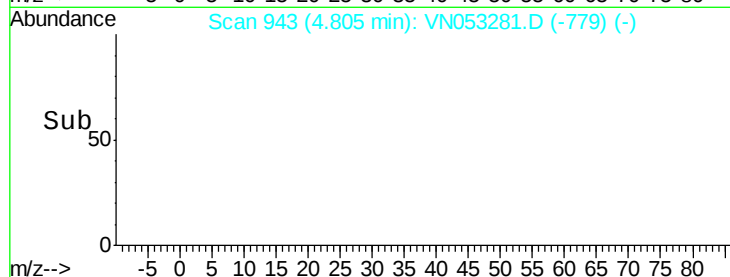
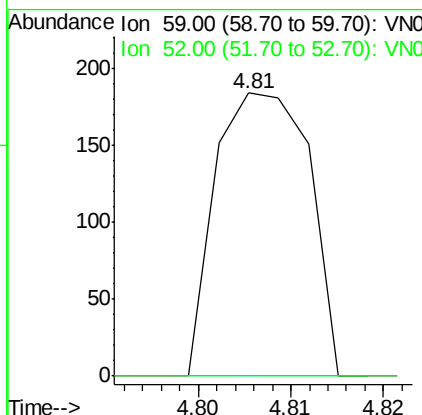
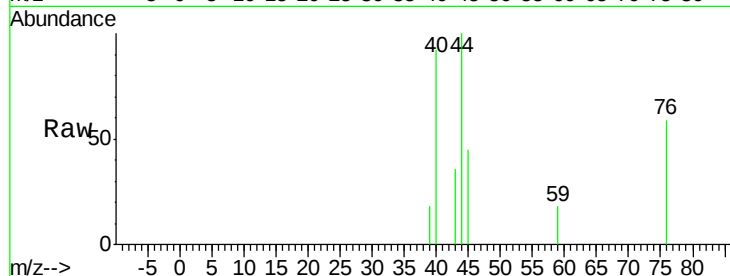


#23

tert-Butyl Alcohol
 Concen: 0.285 ug/l
 RT: 4.81 min Scan# 943
 Delta R.T. 0.03 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

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

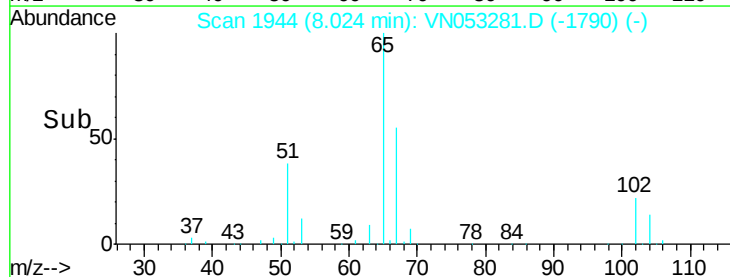
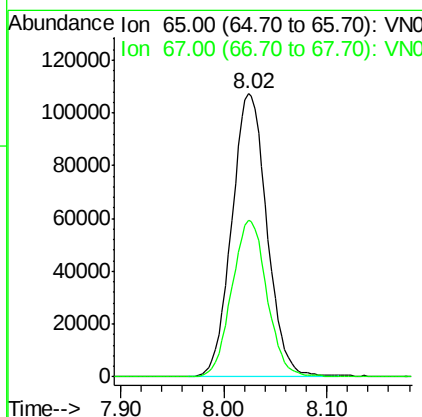
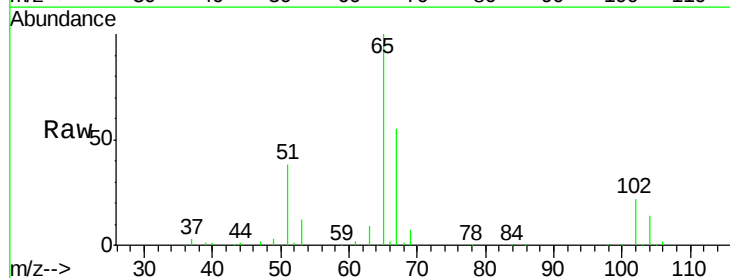
Tot Ion: 59 Resp: 129
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

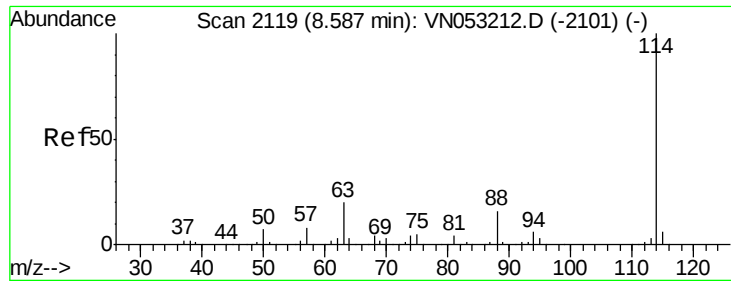


#27

1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

Tgt Ion: 65 Resp: 254763
 Ion Ratio Lower Upper
 65 100
 67 55.0 44.6 66.8

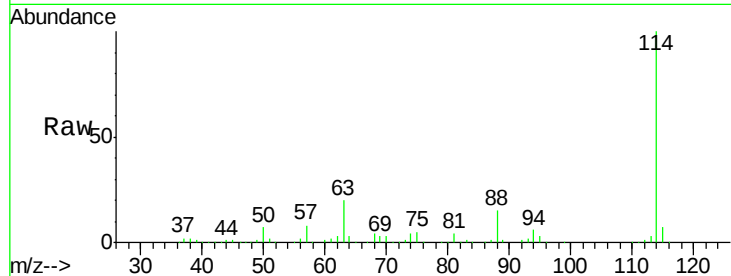




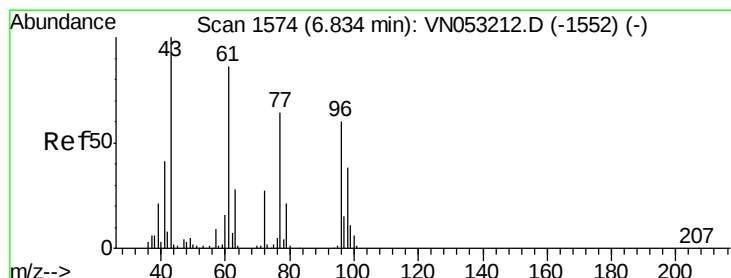
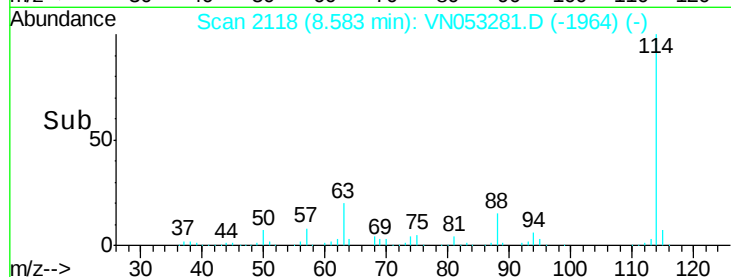
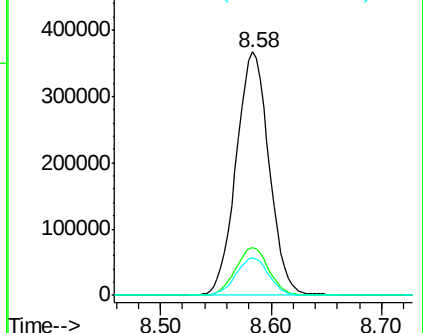
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

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

Tot Ion:114 Resp: 760174
 Ion Ratio Lower Upper
 114 100
 63 19.7 16.9 25.3
 88 15.3 12.8 19.2

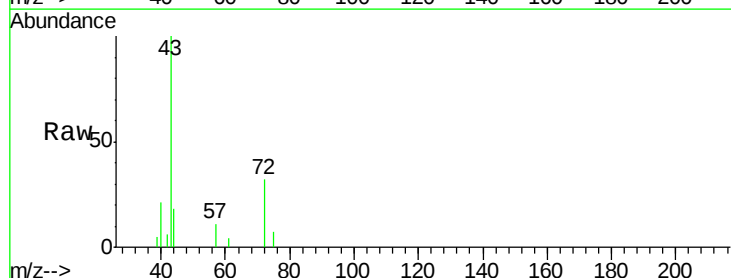


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 88.00 (87.70 to 88.70): VNO

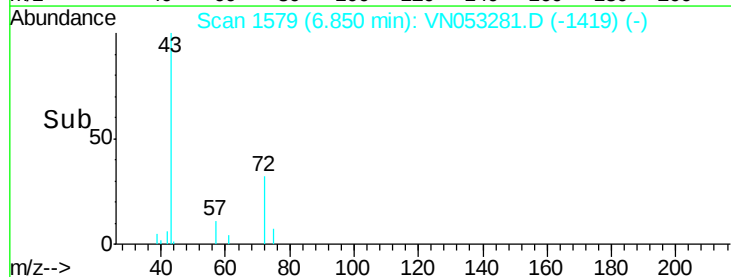
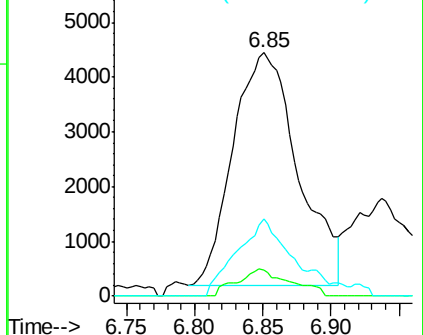


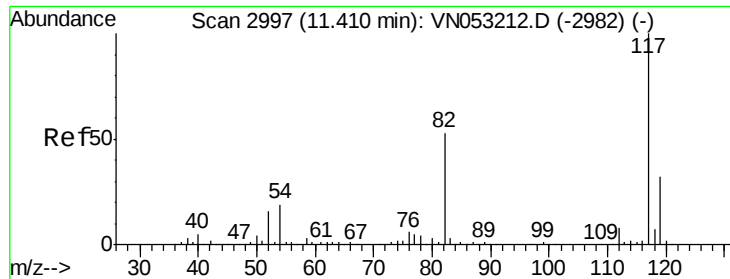
#30
 2-Butanone
 Concen: 4.909 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.02 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

Tgt Ion: 43 Resp: 14103
 Ion Ratio Lower Upper
 43 100
 57 2.5 6.2 9.4#
 72 25.6 21.0 31.6



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

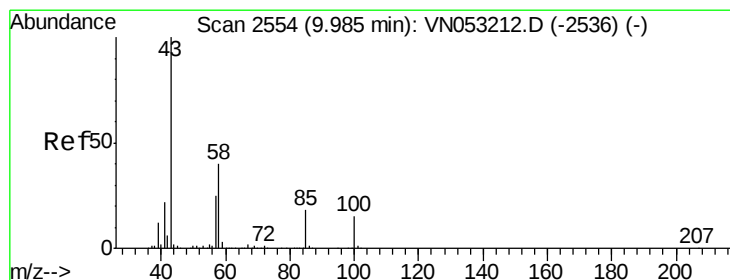
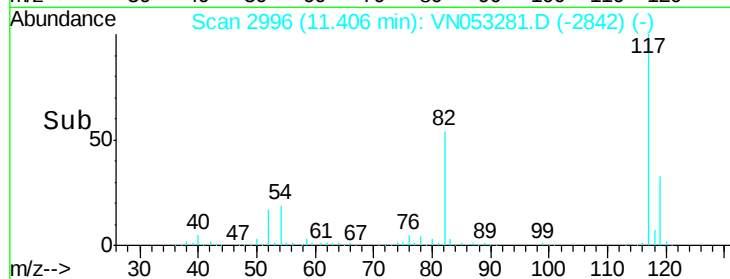
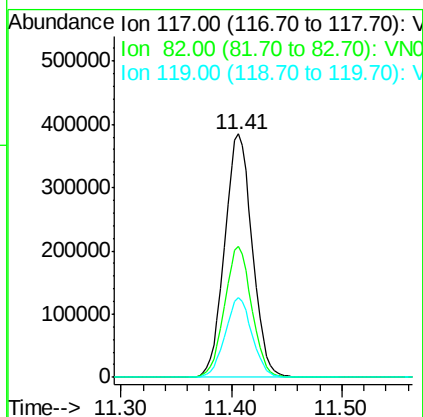
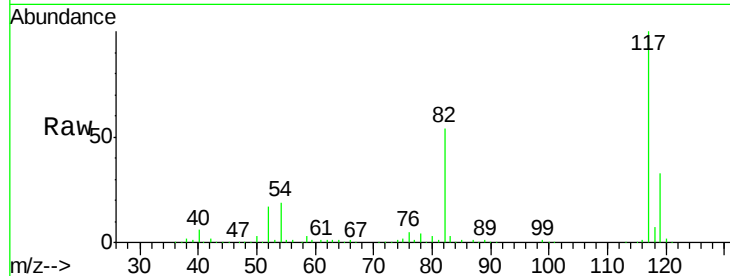




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053281.D
Acq: 4 Jan 2019 14:32

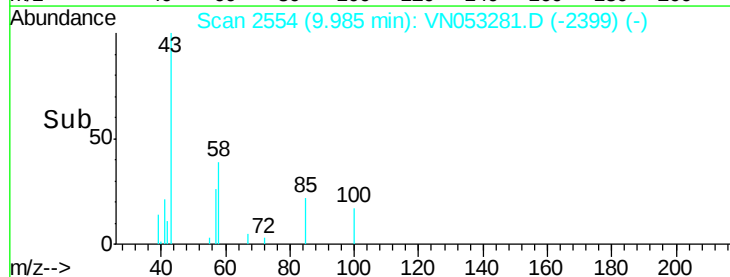
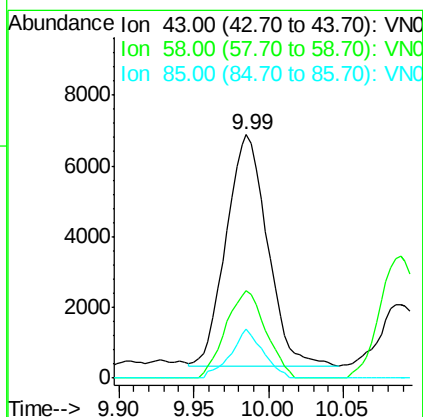
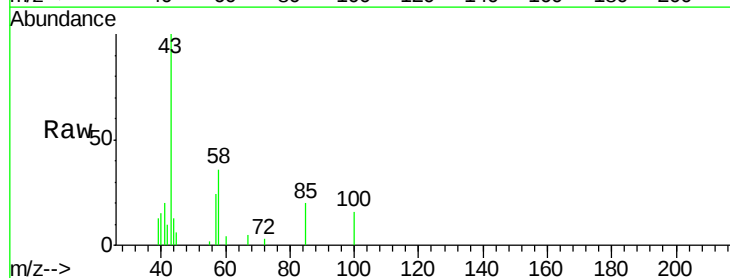
Instrument :
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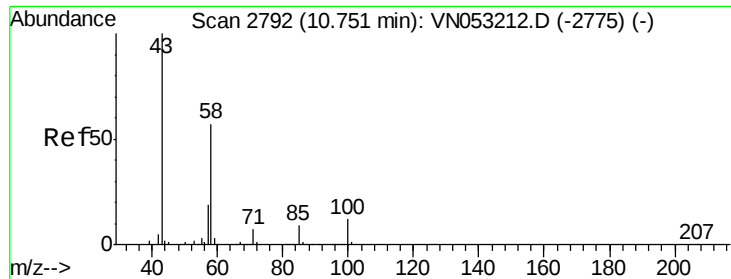
Tot Ion:117 Resp: 665925
Ion Ratio Lower Upper
117 100
82 53.1 44.2 66.2
119 32.2 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 1.966 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN053281.D
Acq: 4 Jan 2019 14:32

Tgt Ion: 43 Resp: 12475
Ion Ratio Lower Upper
43 100
58 36.9 31.6 47.4
85 16.8 13.3 19.9

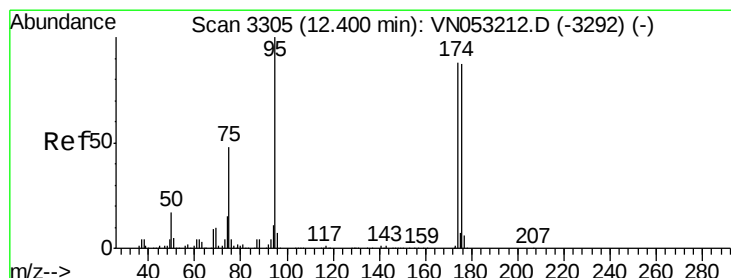
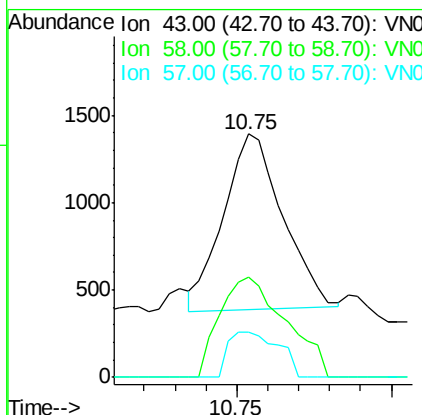
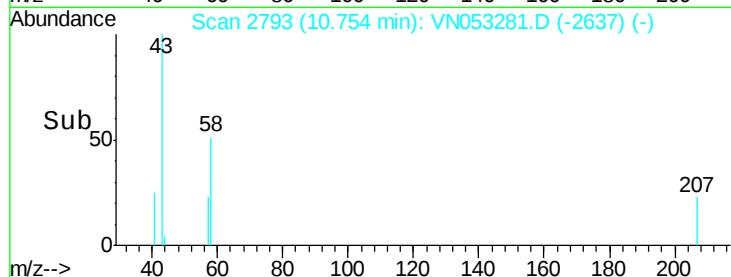
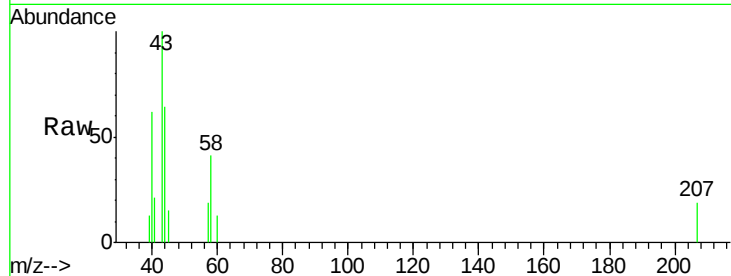




#59
2-Hexanone
Concen: 0.307 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053281.D
Acq: 4 Jan 2019 14:32

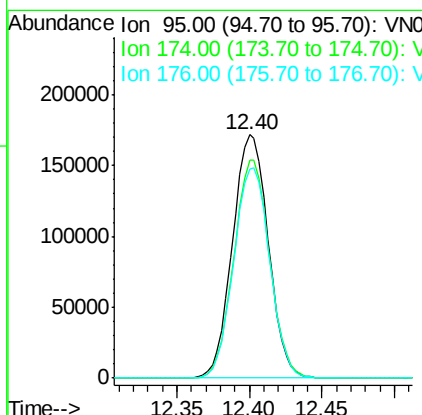
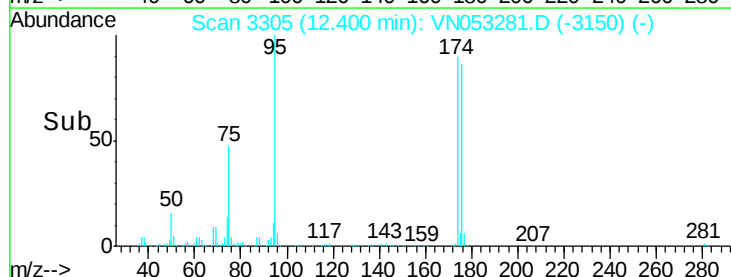
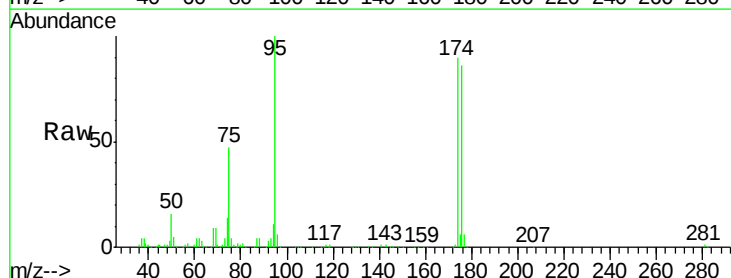
Instrument :
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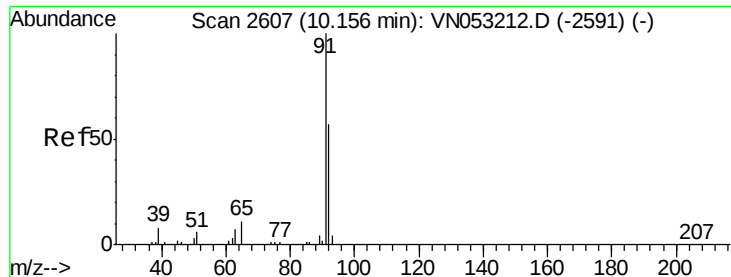
Tot Ion: 43 Resp: 1347
Ion Ratio Lower Upper
43 100
58 63.5 43.2 64.8
57 19.2 14.9 22.3



#60
4-Bromofluorobenzene
Concen: 0.307 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053281.D
Acq: 4 Jan 2019 14:32

Tgt Ion: 95 Resp: 295078
Ion Ratio Lower Upper
95 100
174 89.4 67.9 101.9
176 86.9 66.4 99.6





#62

Toluene

Concen: 11.880 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

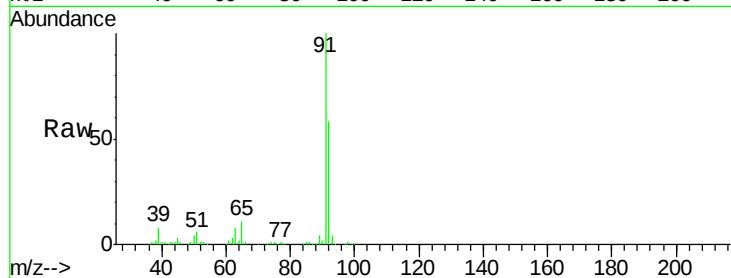
001M-WILLETS-PT-BLVD(JAN)

Tot Ion: 91 Resp: 433873

Ion Ratio Lower Upper

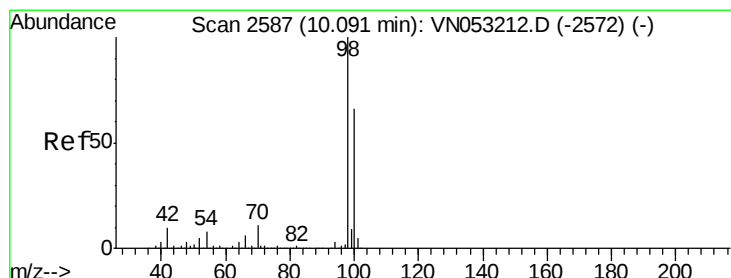
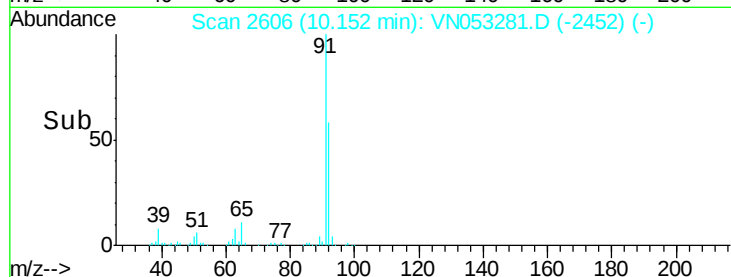
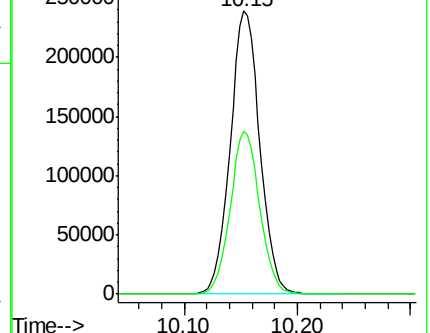
91 100

92 57.2 45.4 68.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0



#63

Toluene-d8

Concen: 11.880 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN053281.D

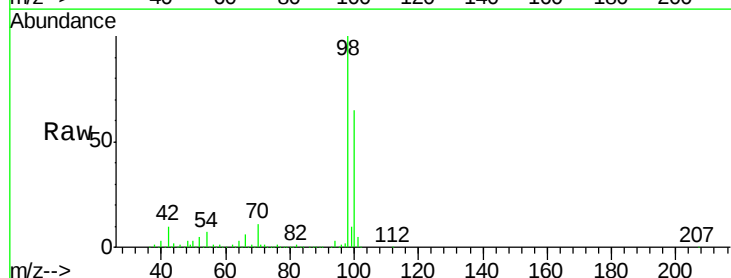
Acq: 4 Jan 2019 14:32

Tgt Ion: 98 Resp: 888031

Ion Ratio Lower Upper

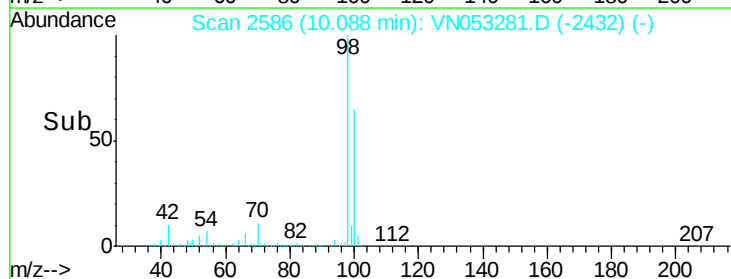
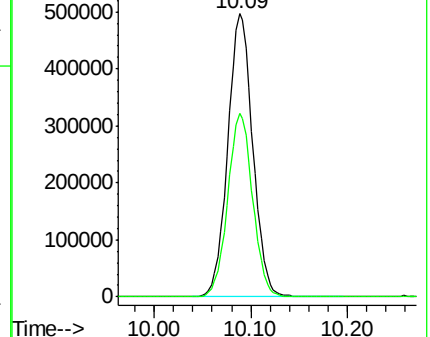
98 100

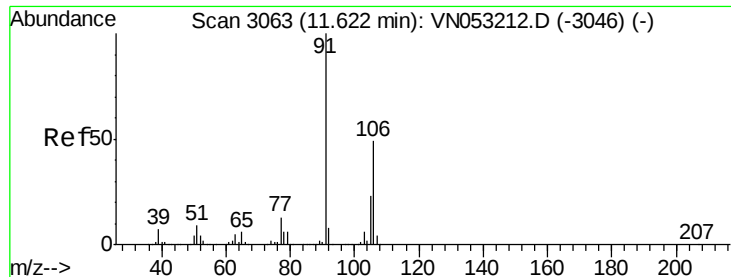
100 64.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#67

m/p-Xylenes

Concen: 0.358 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.01 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

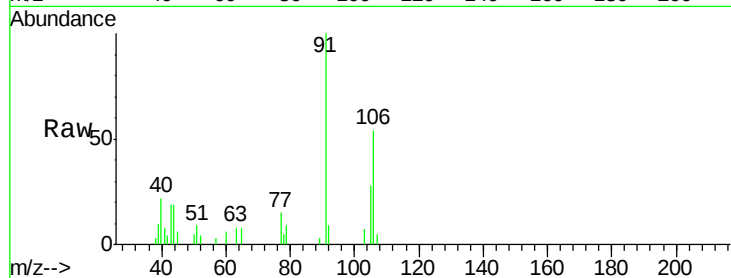
001M-WILLETS-PT-BLVD(JAN)

Tot Ion:106 Resp: 5359

Ion Ratio Lower Upper

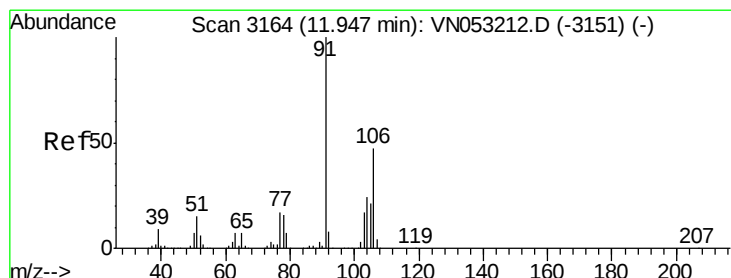
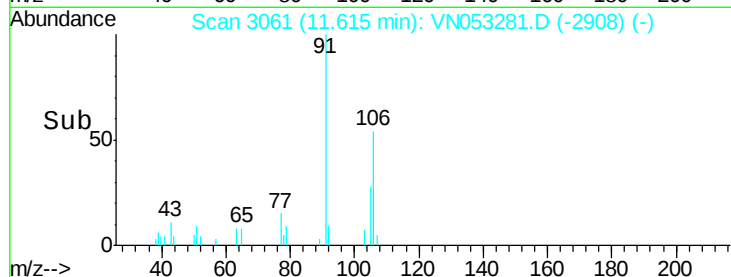
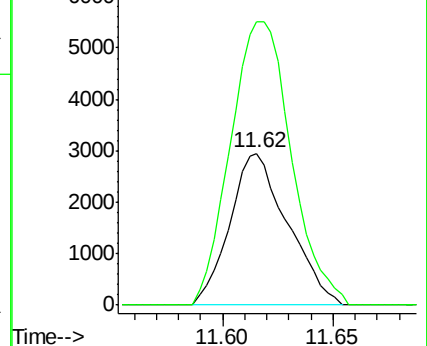
106 100

91 196.4 163.9 245.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#68

o-Xylene

Concen: 0.208 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN053281.D

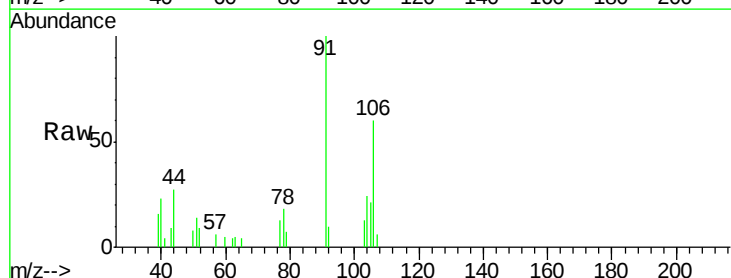
Acq: 4 Jan 2019 14:32

Tgt Ion:106 Resp: 3015

Ion Ratio Lower Upper

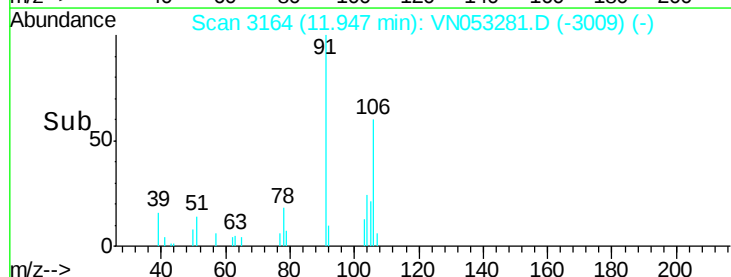
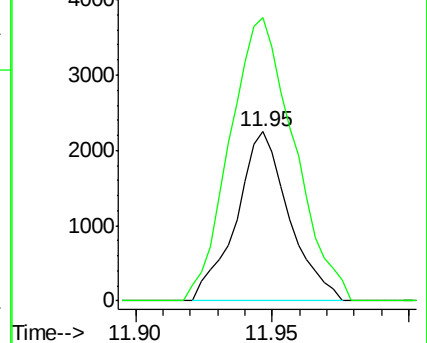
106 100

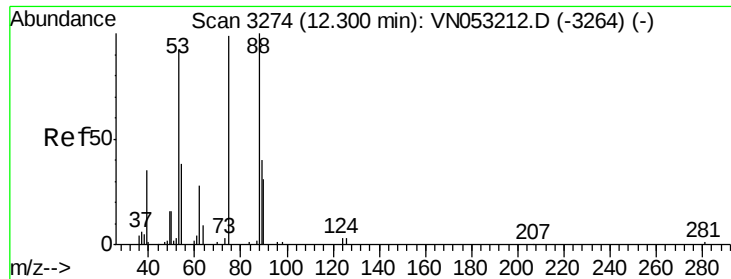
91 204.2 107.8 323.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#77

t-1,4-Dichloro-2-butene

Concen: 55.365 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JAN)

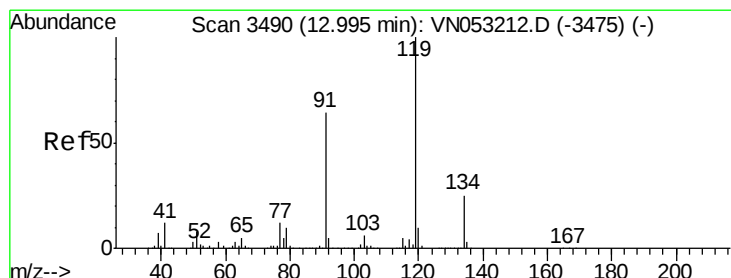
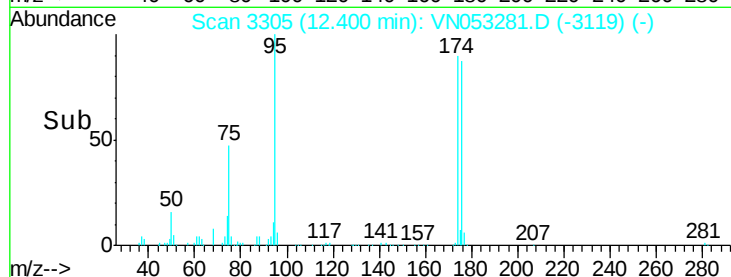
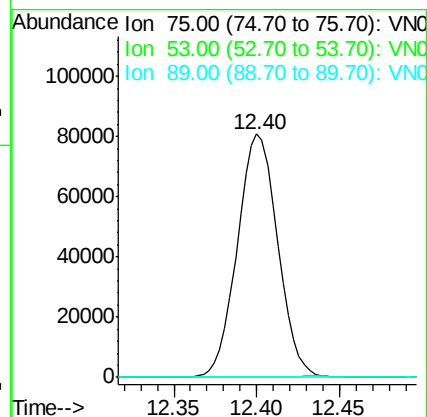
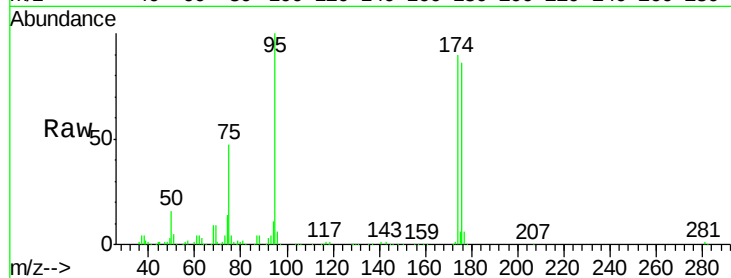
Tot Ion: 75 Resp: 136952

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#



#79

tert-butylbenzene

Concen: 0.788 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.29 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

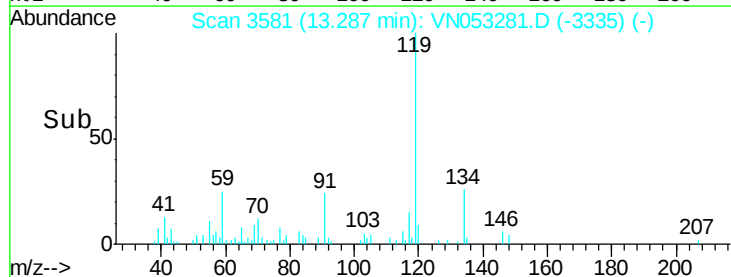
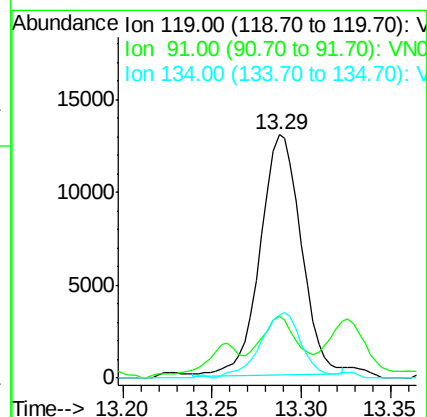
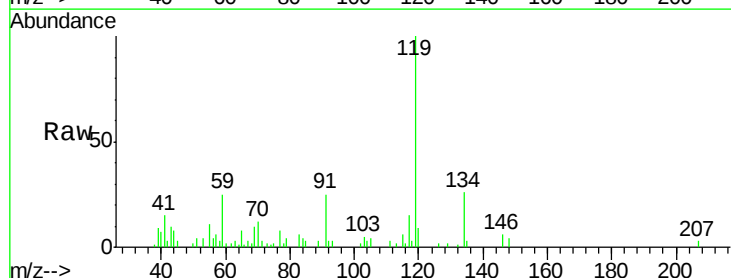
Tgt Ion: 119 Resp: 20816

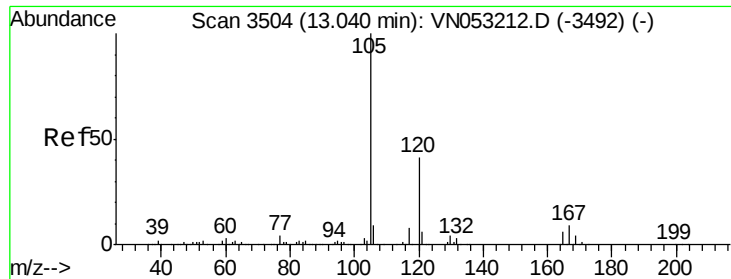
Ion Ratio Lower Upper

119 100

91 22.8 0.0 129.8

134 27.6 0.0 52.2





#80

1,2,4-Trimethylbenzene

Concen: 0.392 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

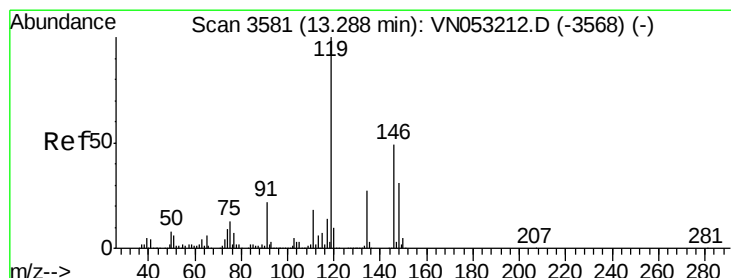
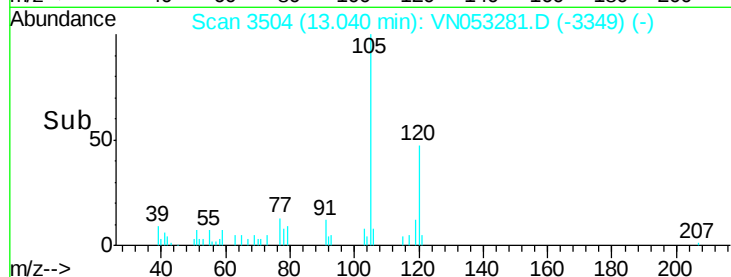
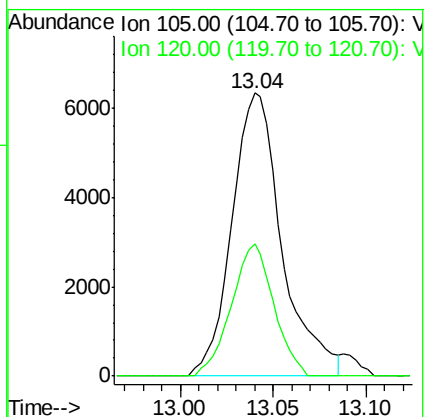
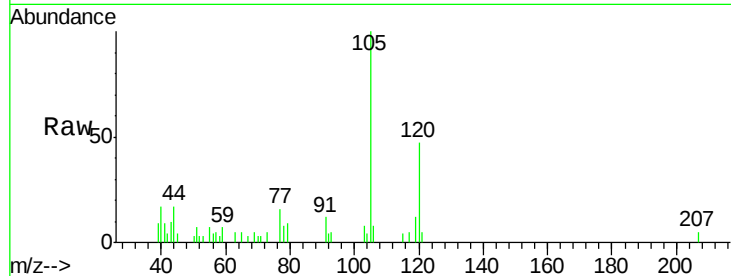
001M-WILLETS-PT-BLVD(JAN)

Tot Ion:105 Resp: 11890

Ion Ratio Lower Upper

105 100

120 39.5 0.0 91.0



#82

p-Isopropyltoluene

Concen: 0.689 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.00 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

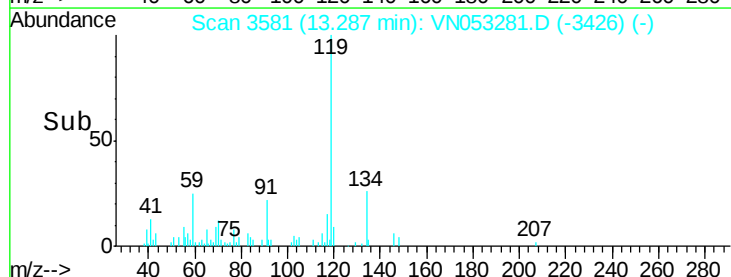
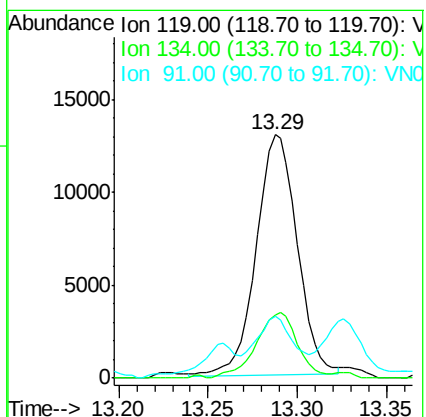
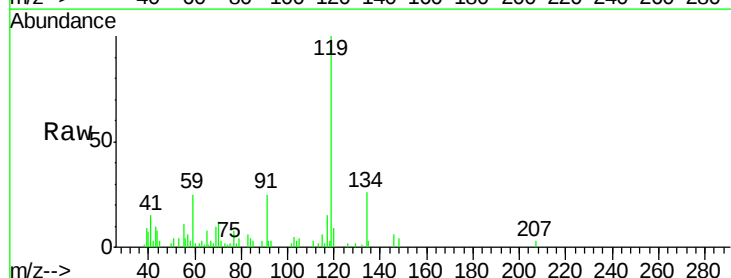
Tgt Ion:119 Resp: 20816

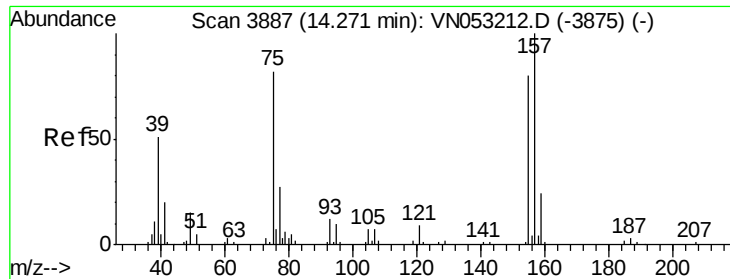
Ion Ratio Lower Upper

119 100

134 27.6 0.0 52.6

91 22.8 0.0 46.2

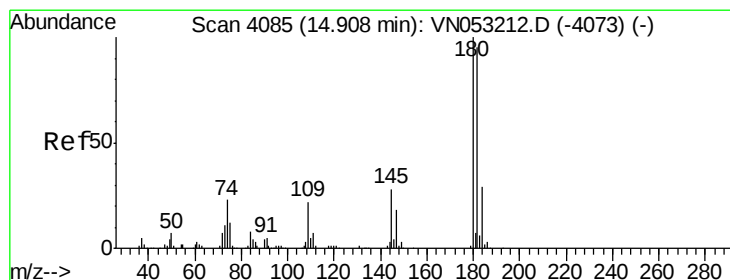
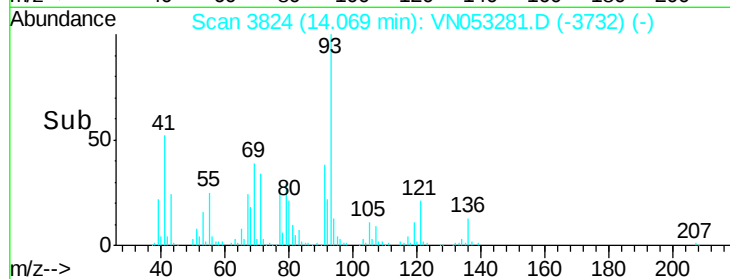
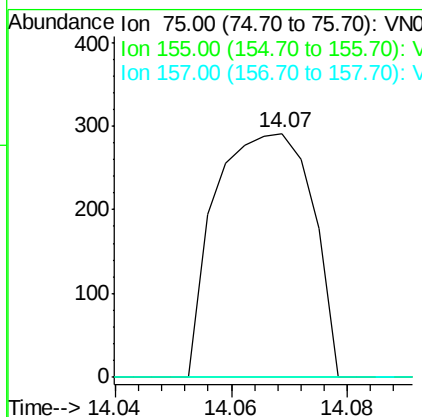
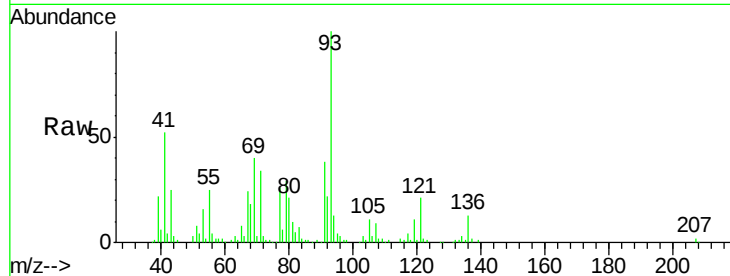




#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.292 ug/l
 RT: 14.07 min Scan# 3824
 Delta R.T. -0.20 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

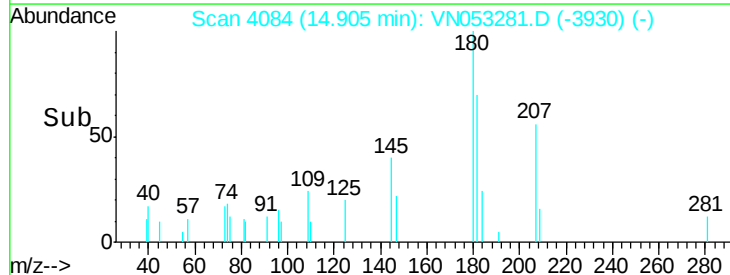
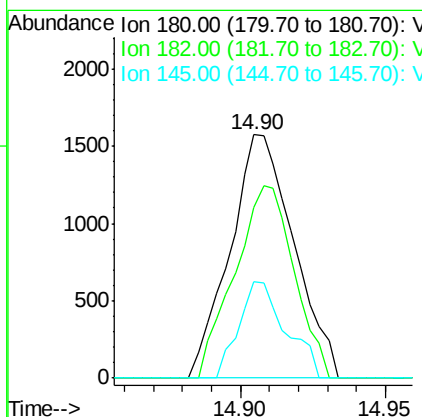
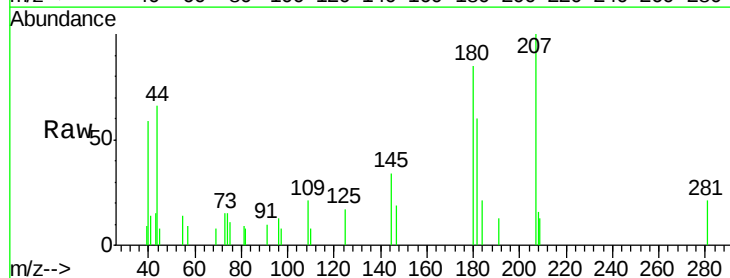
Instrument :
 MSVOA_N
 ClientSampleId :
 001M-WILLETS-PT-BLVD(JAN)

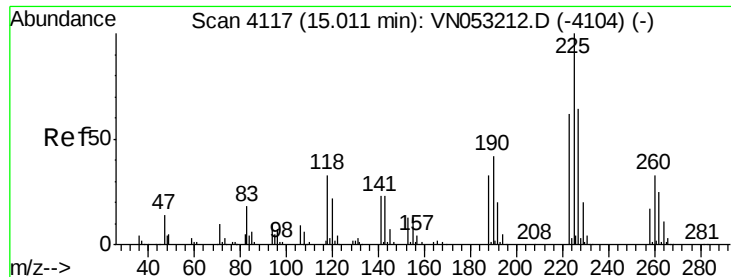
Tot Ion: 75 Resp: 336
 Ion Ratio Lower Upper
 75 100
 155 0.0 72.2 108.2#
 157 0.0 94.2 141.2#



#89
 1,2,4-Trichlorobenzene
 Concen: 0.318 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

Tgt Ion: 180 Resp: 2400
 Ion Ratio Lower Upper
 180 100
 182 73.4 76.6 114.8#
 145 29.2 23.6 35.4





#90

Hexachlorobutadiene

Concen: 0.497 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

Instrument :

MSVOA_N

ClientSampleId :

001M-WILLETS-PT-BLVD(JAN)

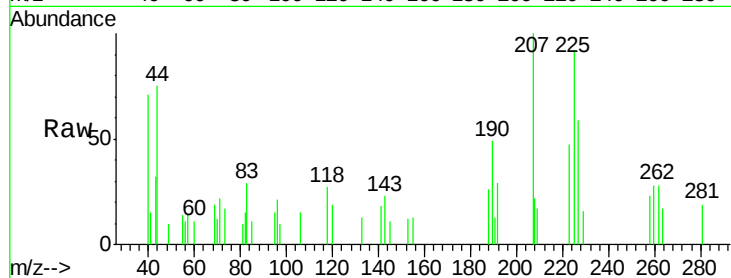
Tot Ion:225 Resp: 2267

Ion Ratio Lower Upper

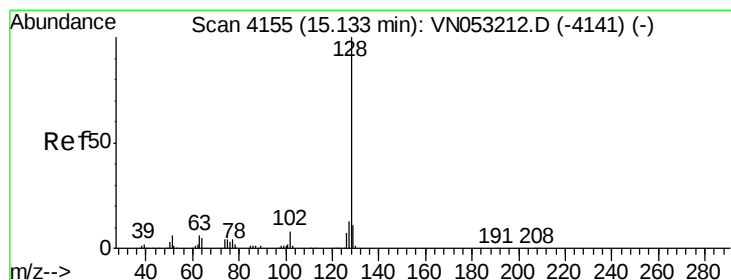
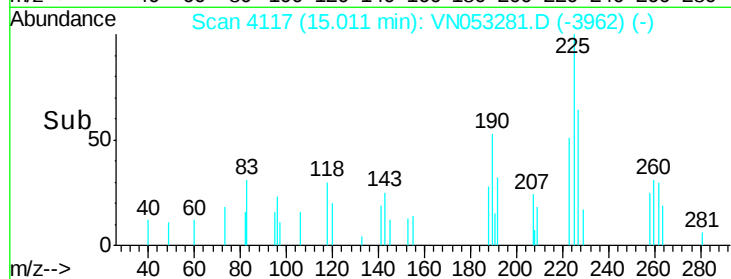
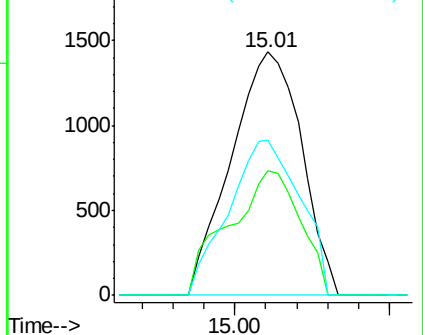
225 100

223 52.1 0.0 125.6

227 64.7 0.0 127.8



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: 0.346 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053281.D

Acq: 4 Jan 2019 14:32

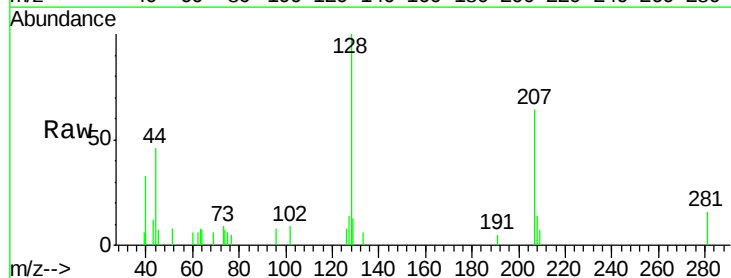
Tgt Ion:128 Resp: 5528

Ion Ratio Lower Upper

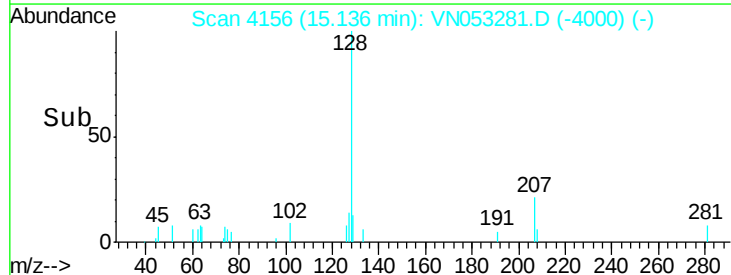
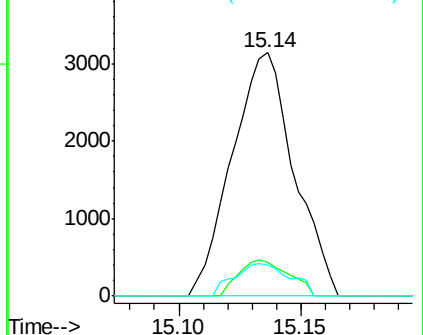
128 100

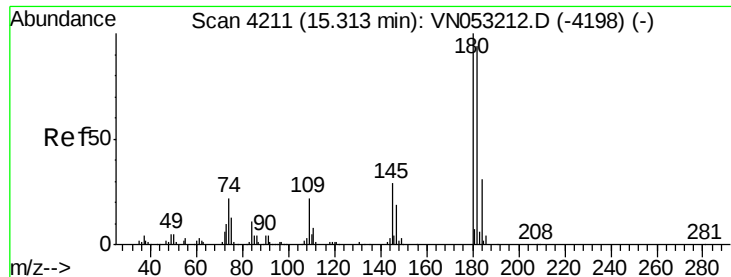
127 12.0 9.9 14.9

129 10.6 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

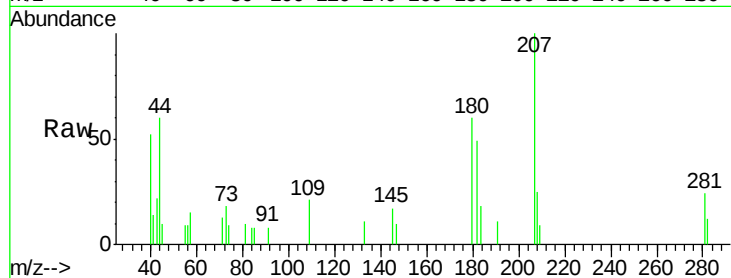




#92
 1,2,3-Trichlorobenzene
 Concen: 0.320 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN053281.D
 Acq: 4 Jan 2019 14:32

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

Tot Ion:180 Resp: 2152
 Ion Ratio Lower Upper
 180 100
 182 87.1 0.0 196.2
 145 19.0 0.0 62.2



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

