

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100518\
 Data File : VN051687.D
 Acq On : 5 Oct 2018 15:16
 Operator : MD\SY
 Sample : J5239-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(AUG)

Quant Time: Oct 05 16:18:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 05 11:11:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	80810	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	463050	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	378792	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	165290	29.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.23%
60) 4-Bromofluorobenzene	12.40	95	135654	23.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.23%
63) Toluene-d8	10.09	98	536188	31.88	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.27%

Target Compounds

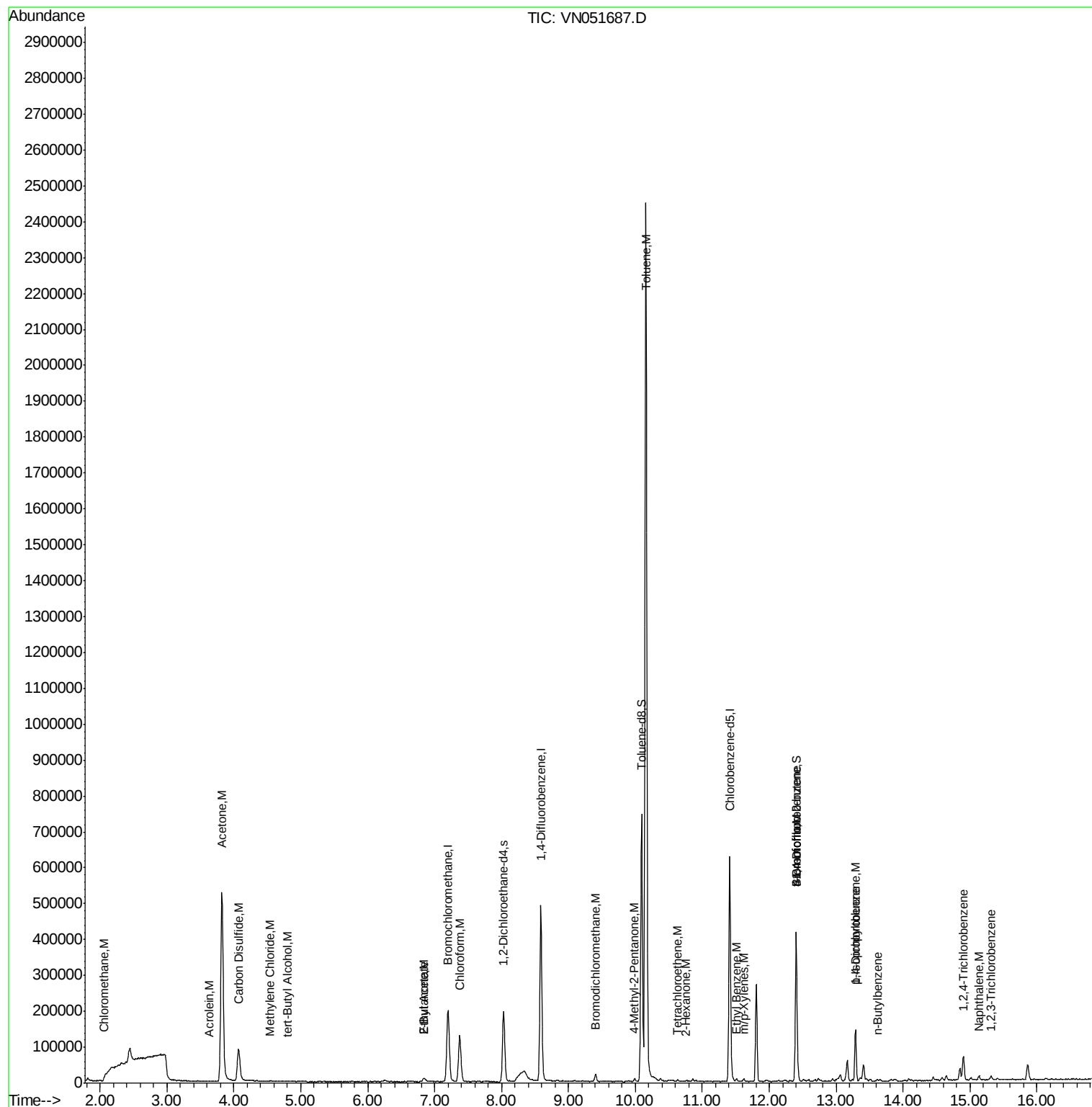
					Ovalue	
3) Chloromethane	2.06	50	1585	0.343	ug/l	91
13) Acrolein	3.64	56	69	0.315	ug/l	87
15) Acetone	3.82	58	272717	938.914	ug/l	79
16) Carbon Disulfide	4.06	76	6710	0.622	ug/l #	90
18) Methylene Chloride	4.54	84	860	0.202	ug/l #	71
23) tert-Butyl Alcohol	4.80	59	234	0.745	ug/l #	100
25) Chloroform	7.38	83	130075	14.917	ug/l	94
30) 2-Butanone	6.84	43	5037	3.361	ug/l #	51
41) Bromodichloromethane	9.41	83	12858	1.826	ug/l	89
43) Ethyl Acetate	6.84	43	5037	1.597	ug/l	97
56) Bromoform	12.40	173	924	0.221	ug/l #	1
58) 4-Methyl-2-Pentanone	9.99	43	6020	1.936	ug/l #	90
59) 2-Hexanone	10.76	43	981	0.466	ug/l #	85
61) Tetrachloroethene	10.63	164	1008	0.226	ug/l #	83
62) Toluene	10.16	91	1945572	101.396	ug/l	99
66) Ethyl Benzene	11.51	91	5751	0.266	ug/l	94
67) m/p-Xylenes	11.62	106	2239	0.259	ug/l	86
77) t-1,4-Dichloro-2-butene	12.40	75	74742	52.592	ug/l #	12
82) p-Isopropyltoluene	13.29	119	78501	3.815	ug/l	98
84) 1,4-Dichlorobenzene	13.28	146	1941	0.206	ug/l	96
85) n-Butylbenzene	13.62	91	3521	0.216	ug/l	88
89) 1,2,4-Trichlorobenzene	14.91	180	2770	7.303	ug/l	84
91) Naphthalene	15.14	128	8655	0.950	ug/l #	90
92) 1,2,3-Trichlorobenzene	15.32	180	2583	0.621	ug/l	70

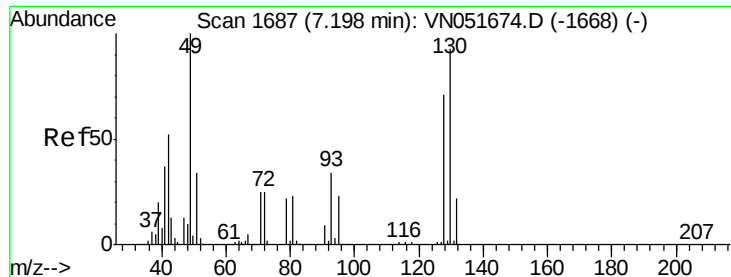
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN100518\
Data File : VN051687.D
Acq On : 5 Oct 2018 15:16
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Instrument :
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001-WILLETS-PT-BLVD(AUG)

Quant Time: Oct 05 16:18:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N100518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 05 11:11:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(AUG)

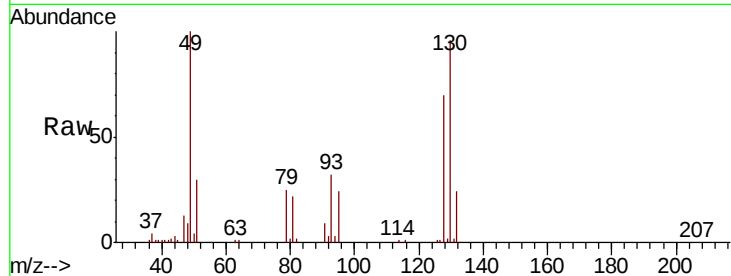
Tot Ion:128 Resp: 80810

Ion Ratio Lower Upper

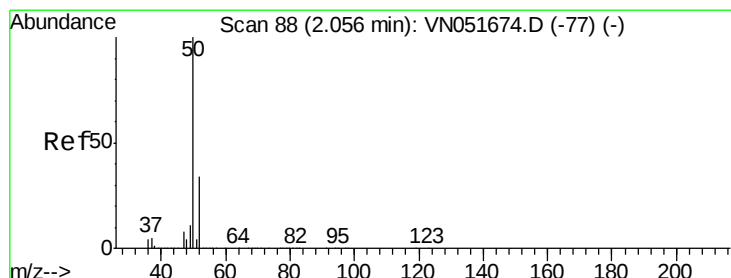
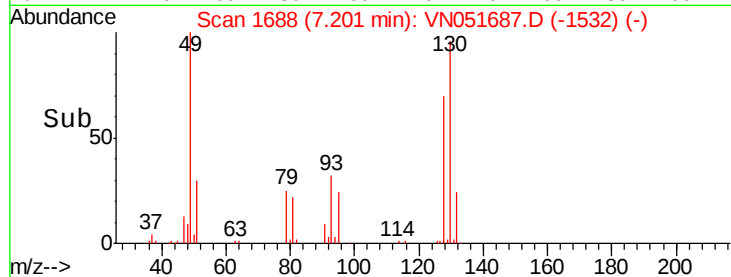
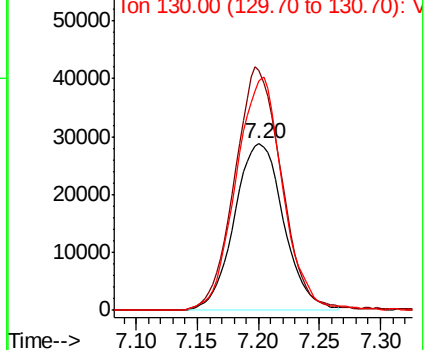
128 100

49 138.4 0.0 403.3

130 132.8 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.343 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051687.D

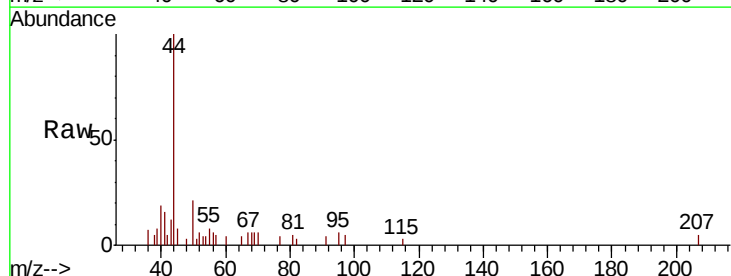
Acq: 5 Oct 2018 15:16

Tgt Ion: 50 Resp: 1585

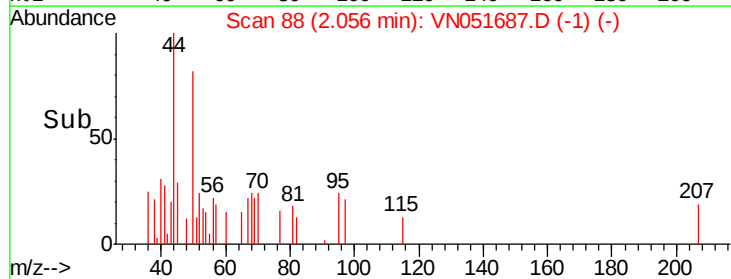
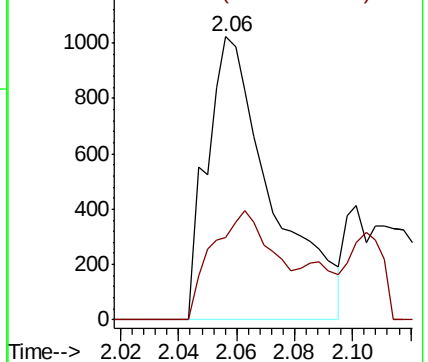
Ion Ratio Lower Upper

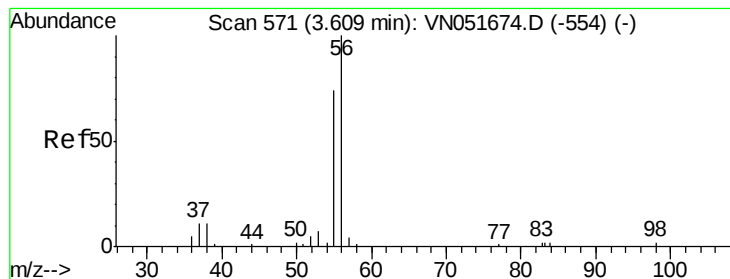
50 100

52 29.0 27.2 40.8



Abundance Ion 50.00 (49.70 to 50.70): V
Ion 52.00 (51.70 to 52.70): V





#13

Acrolein

Concen: 0.315 ug/l

RT: 3.64 min Scan# 579

Delta R.T. 0.03 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

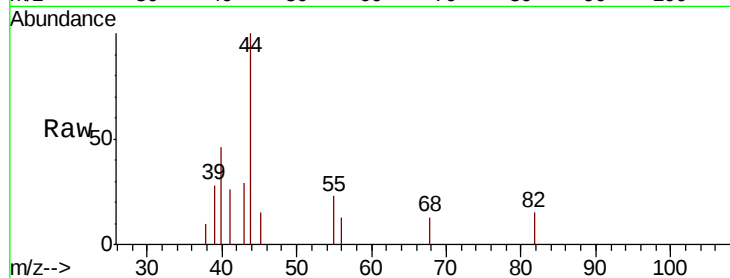
001-WILLETS-PT-BLVD(AUG)

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 91.3 64.0 96.0



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

600

500

400

300

200

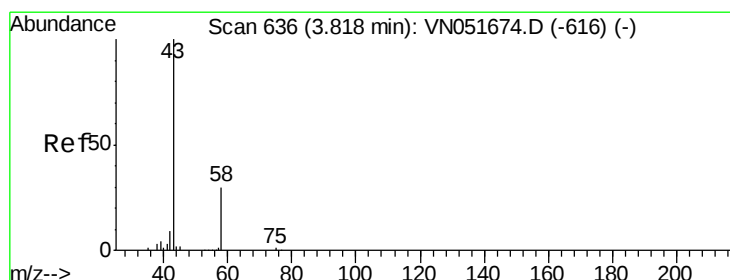
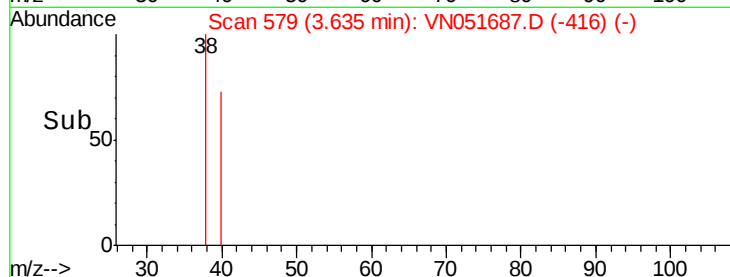
100

0

3.62 3.63 3.63 3.63 3.64

3.64

Time-->



#15

Acetone

Concen: 938.914 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051687.D

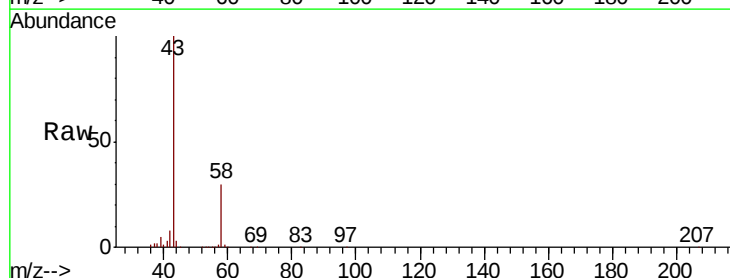
Acq: 5 Oct 2018 15:16

Tgt Ion: 58 Resp: 272717

Ion Ratio Lower Upper

58 100

43 330.7 232.2 348.2



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

400000

300000

200000

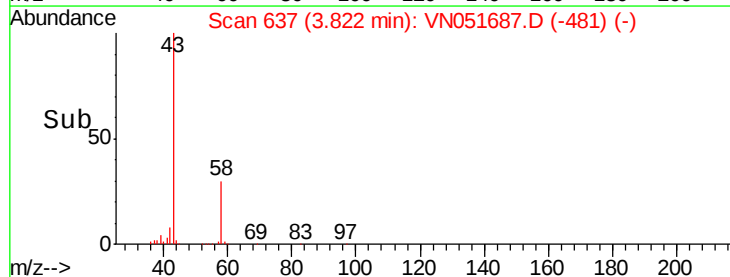
100000

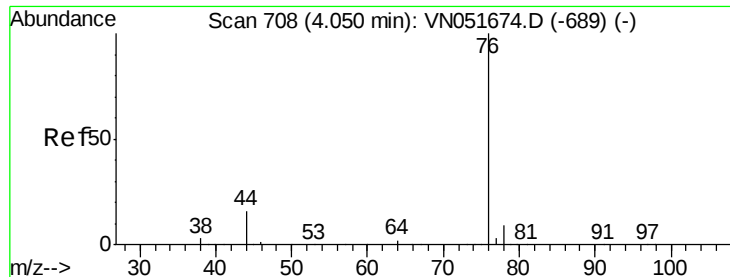
0

3.70 3.80 3.82 3.90

3.82

Time-->

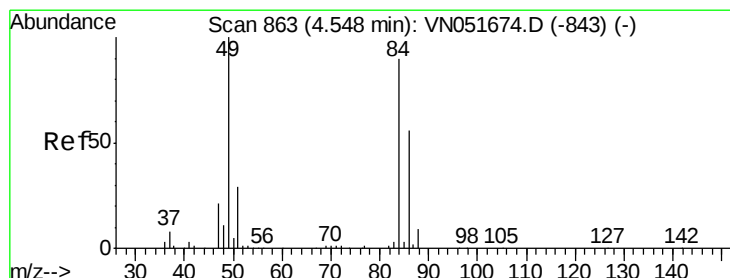
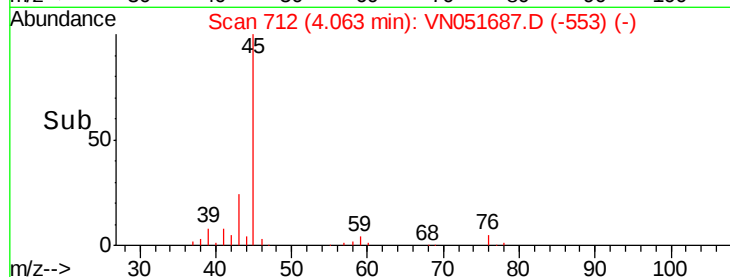
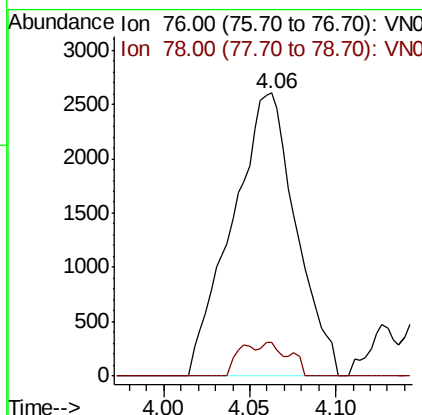
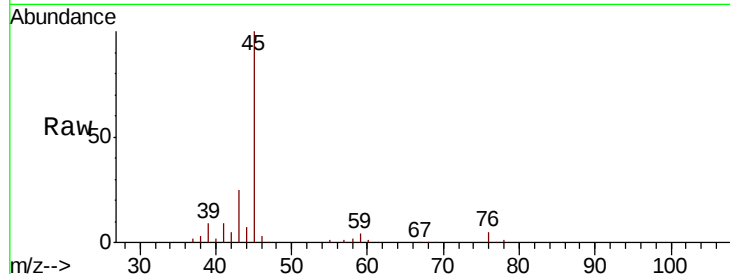




#16
Carbon Disulfide
Concen: 0.622 ug/l
RT: 4.06 min Scan# 712
Delta R.T. 0.01 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

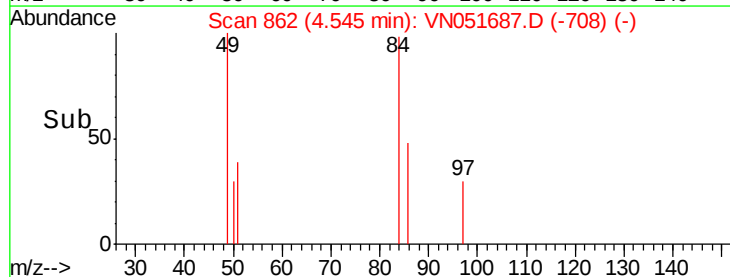
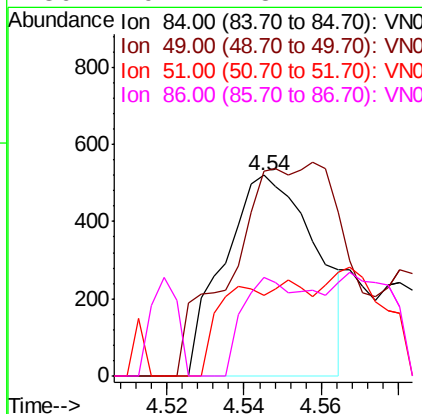
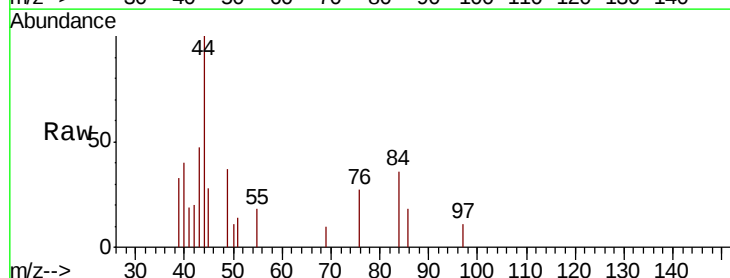
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

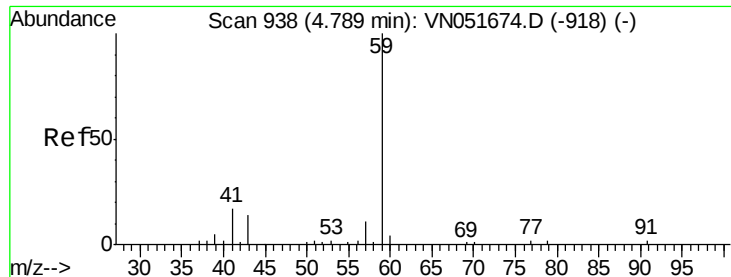
Tot Ion: 76 Resp: 6710
Ion Ratio Lower Upper
76 100
78 12.1 6.7 10.1#



#18
Methylene Chloride
Concen: 0.202 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Tgt Ion: 84 Resp: 860
Ion Ratio Lower Upper
84 100
49 65.6 91.6 137.4#
51 40.0 29.8 44.6
86 49.2 48.2 72.4



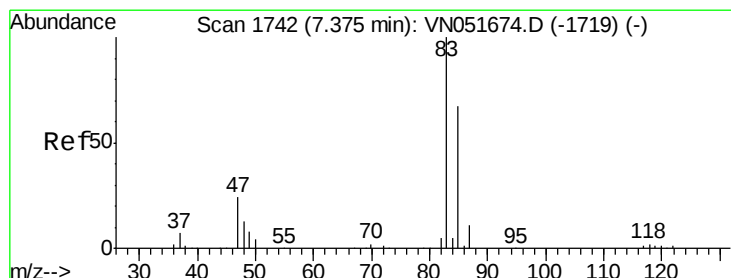
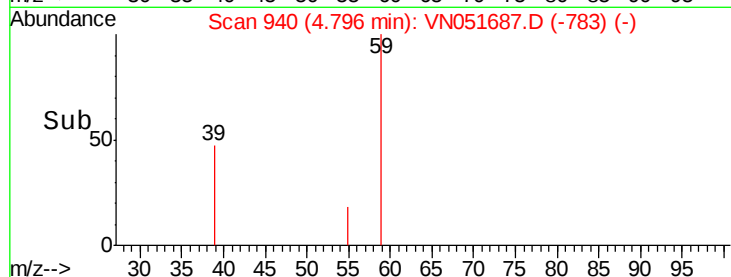
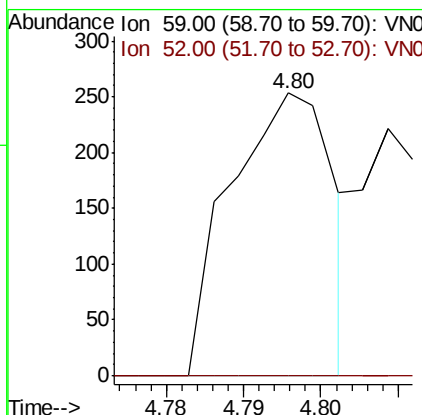
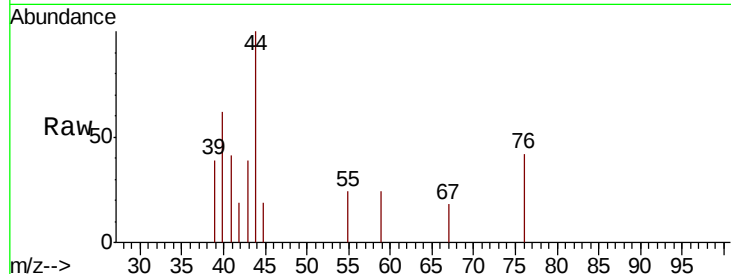


#23

tert-Butyl Alcohol
 Concen: 0.745 ug/l
 RT: 4.80 min Scan# 940
 Delta R.T. 0.01 min
 Lab File: VN051687.D
 Acq: 5 Oct 2018 15:16

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(AUG)

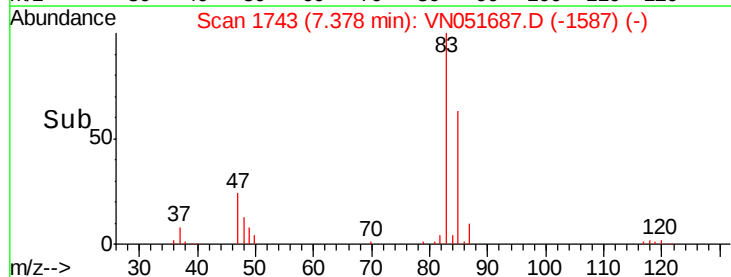
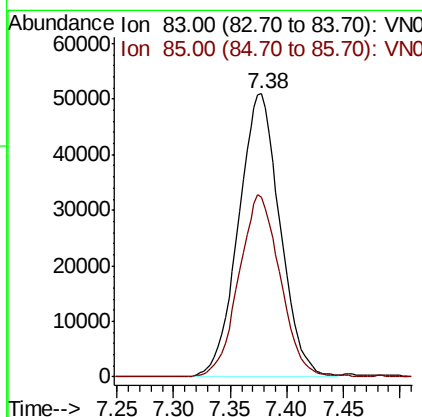
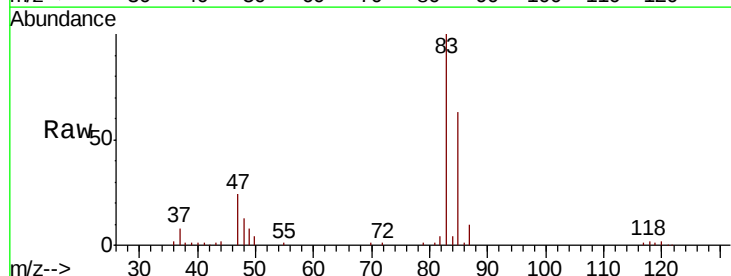
Tot Ion: 59 Resp: 234
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0

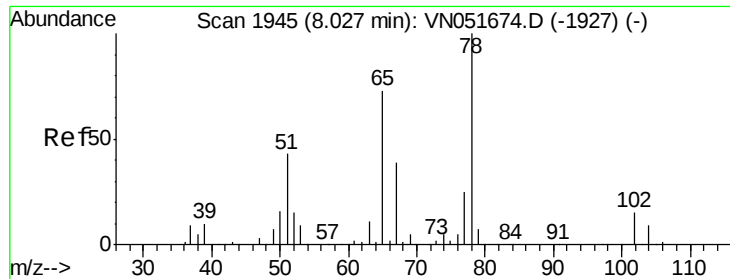


#25

Chloroform
 Concen: 14.917 ug/l
 RT: 7.38 min Scan# 1743
 Delta R.T. 0.00 min
 Lab File: VN051687.D
 Acq: 5 Oct 2018 15:16

Tgt Ion: 83 Resp: 130075
 Ion Ratio Lower Upper
 83 100
 85 63.4 54.6 82.0





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

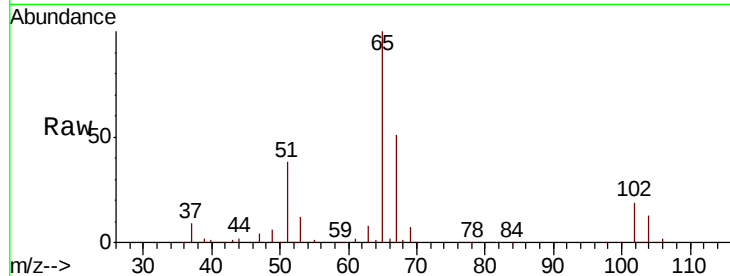
001-WILLETS-PT-BLVD(AUG)

Tot Ion: 65 Resp: 165290

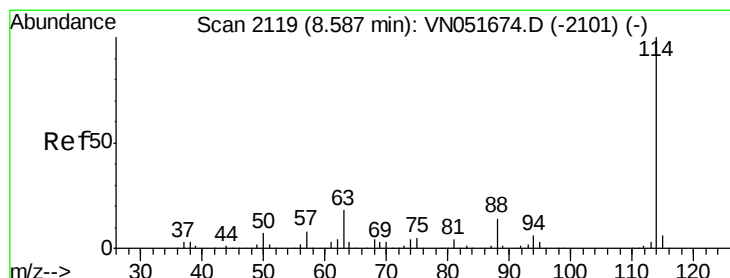
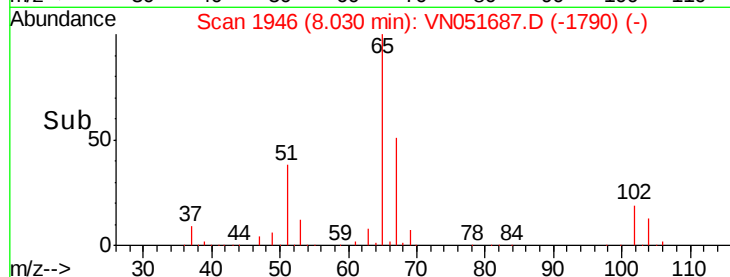
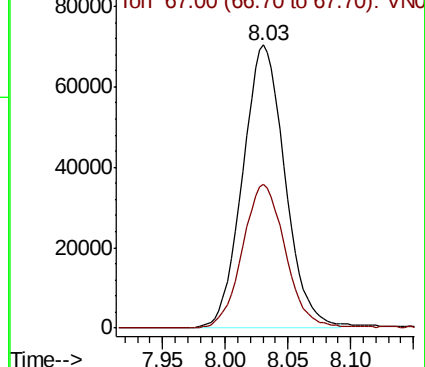
Ion Ratio Lower Upper

65 100

67 51.3 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN051687.D (-1790) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

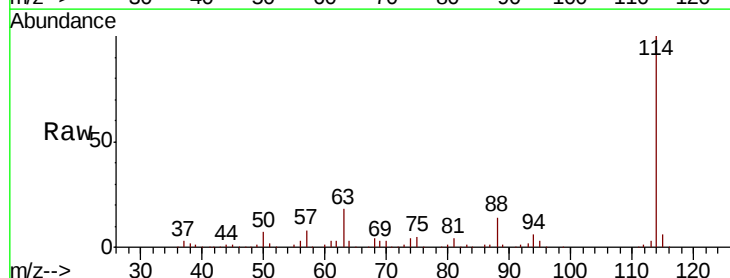
Tgt Ion: 114 Resp: 463050

Ion Ratio Lower Upper

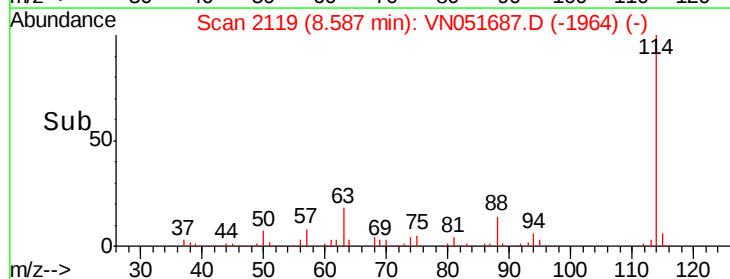
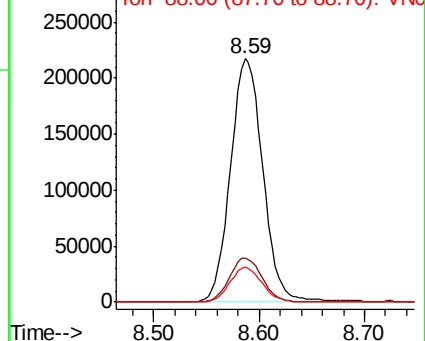
114 100

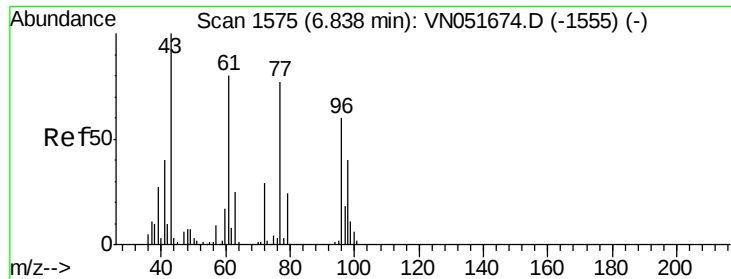
63 18.3 16.2 24.2

88 14.2 12.2 18.4



Abundance Ion 114.00 (113.70 to 114.70): VN051687.D (-1964) (-)

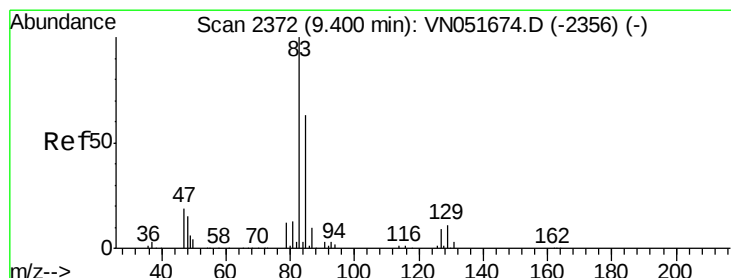
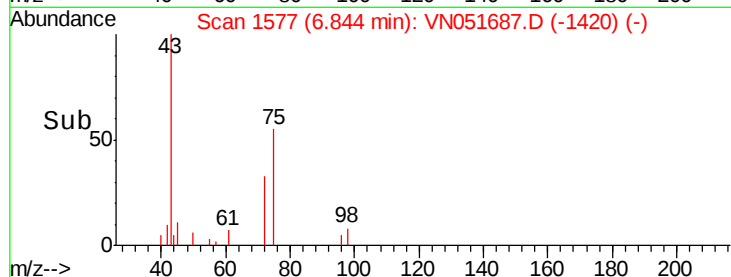
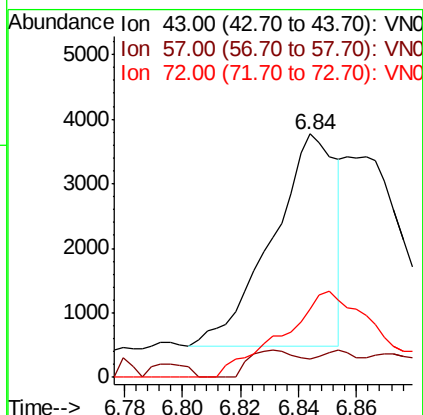
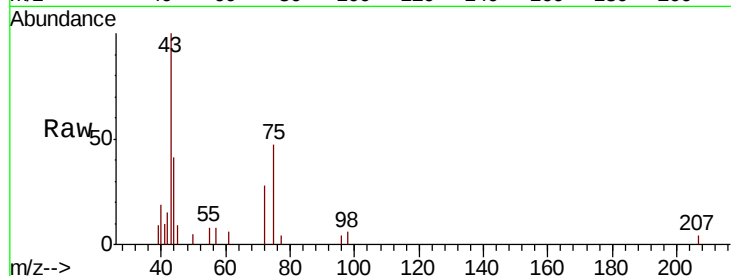




#30
2-Butanone
Concen: 3.361 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

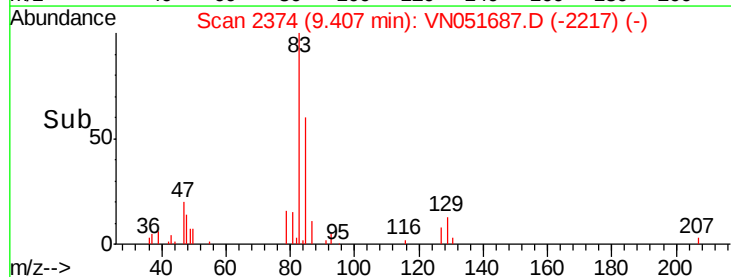
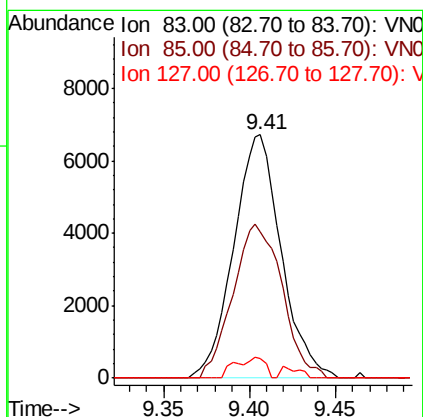
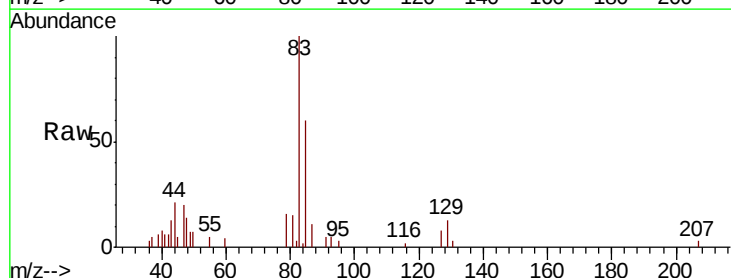
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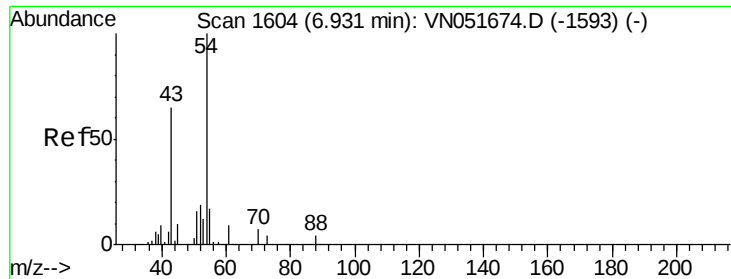
Tot Ion: 43 Resp: 5037
Ion Ratio Lower Upper
43 100
57 1.9 4.5 6.7#
72 56.6 21.5 32.3#



#41
Bromodichloromethane
Concen: 1.826 ug/l
RT: 9.41 min Scan# 2374
Delta R.T. 0.01 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Tgt Ion: 83 Resp: 12858
Ion Ratio Lower Upper
83 100
85 59.9 55.7 83.5
127 8.2 8.2 12.4

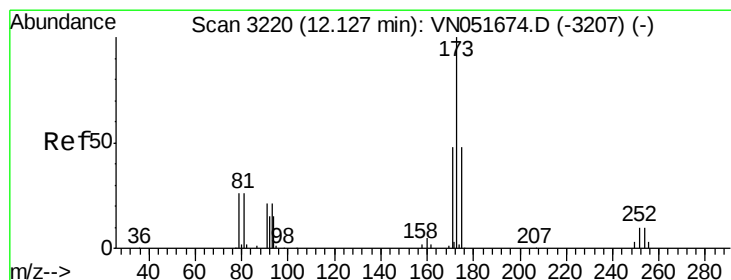
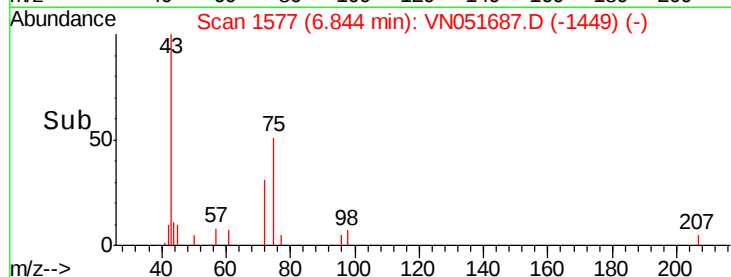
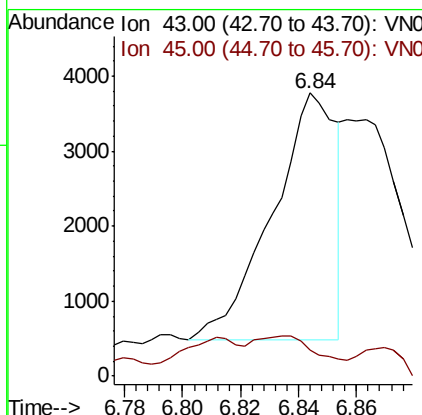
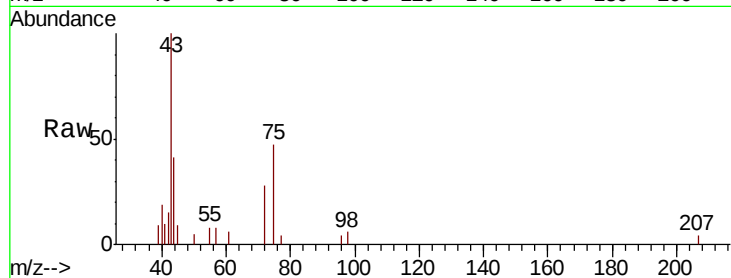




#43
Ethyl Acetate
Concen: 1.597 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. -0.09 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

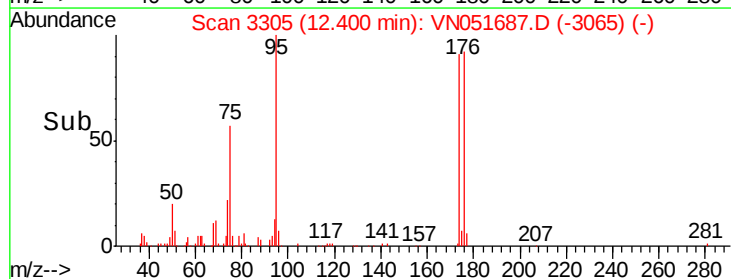
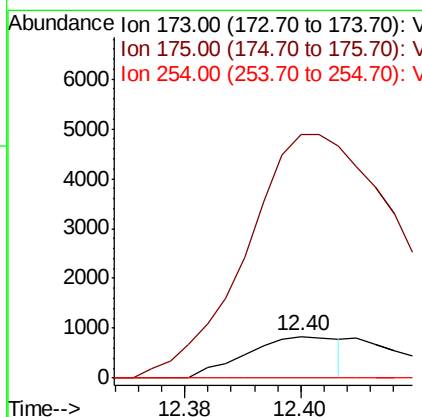
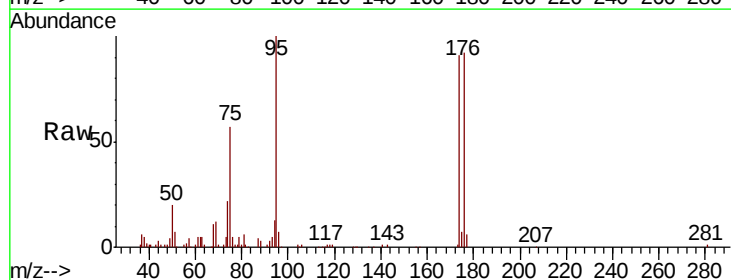
Instrument :
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001-WILLETS-PT-BLVD(AUG)

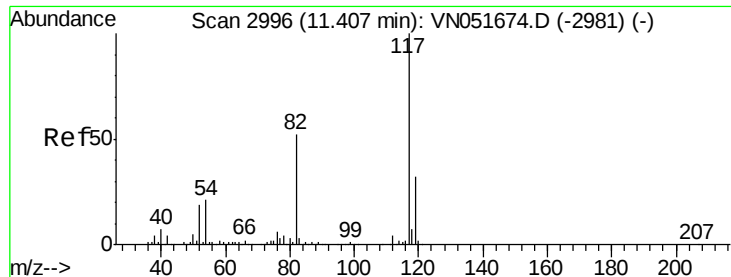
Tot Ion: 43 Resp: 5037
Ion Ratio Lower Upper
43 100
45 12.7 11.0 16.6



#56
Bromoform
Concen: 0.221 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Tgt Ion: 173 Resp: 924
Ion Ratio Lower Upper
173 100
175 984.3 35.8 53.8#
254 0.0 8.6 13.0#

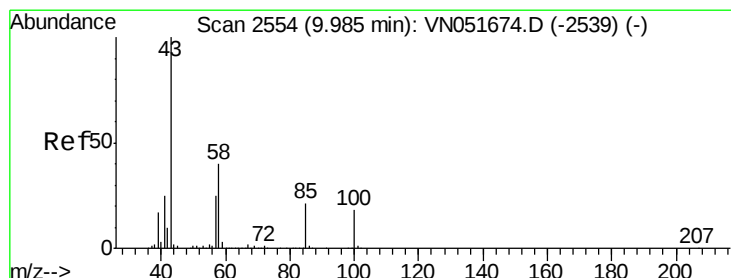
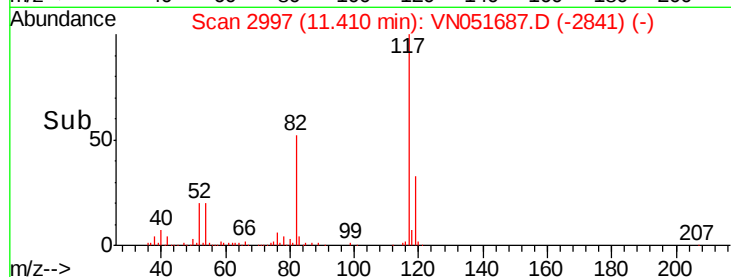
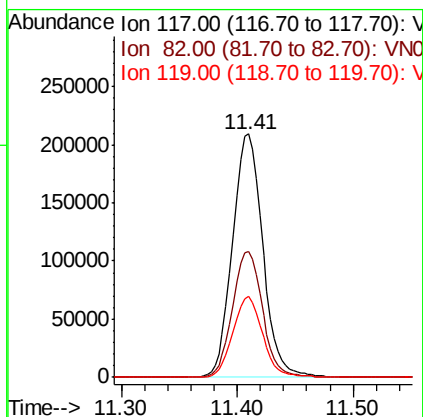
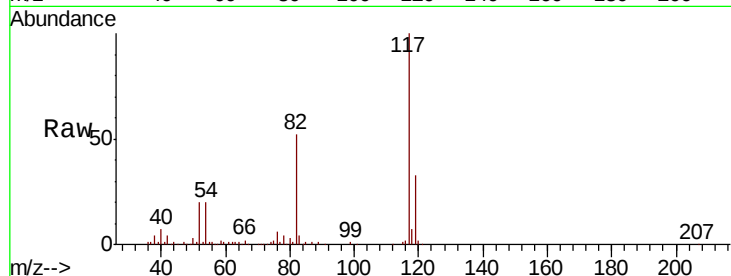




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

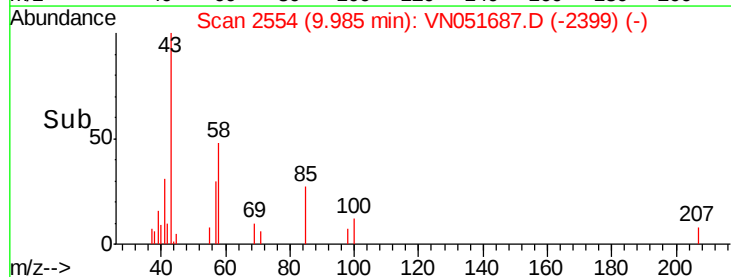
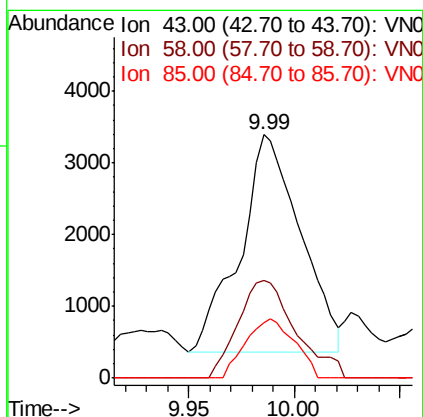
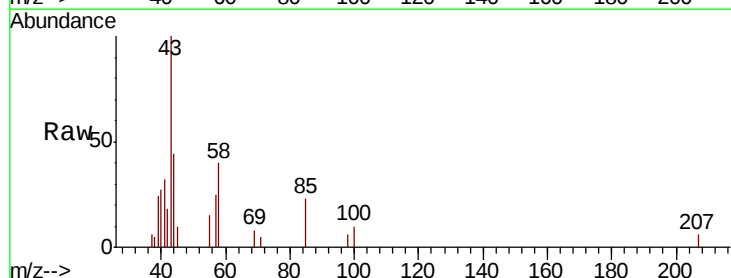
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

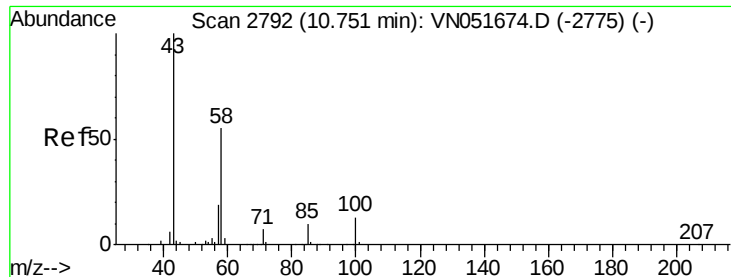
Tot Ion:117 Resp: 378792
Ion Ratio Lower Upper
117 100
82 51.4 44.1 66.1
119 32.7 25.8 38.8



#58
4-Methyl-2-Pentanone
Concen: 1.936 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Tgt Ion: 43 Resp: 6020
Ion Ratio Lower Upper
43 100
58 41.3 29.3 43.9
85 22.0 12.6 18.8#

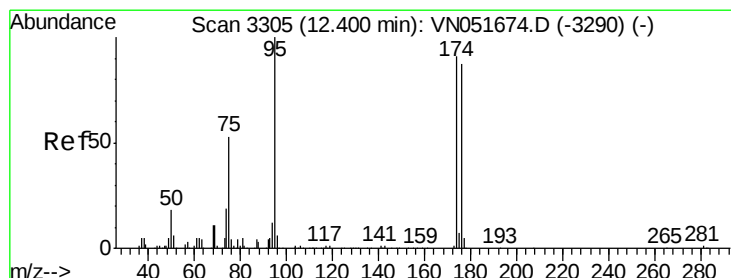
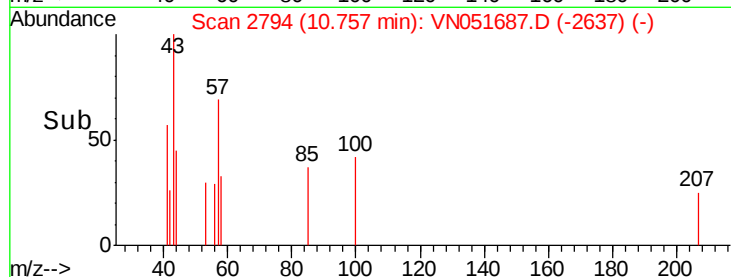
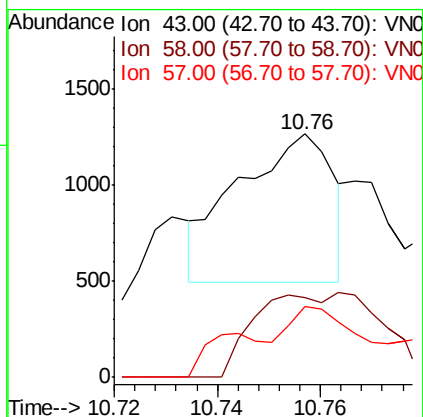
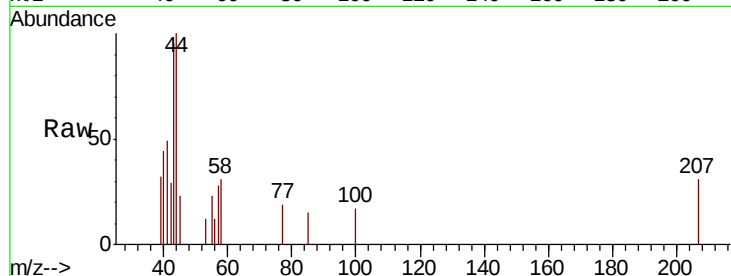




#59
2-Hexanone
Concen: 0.466 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

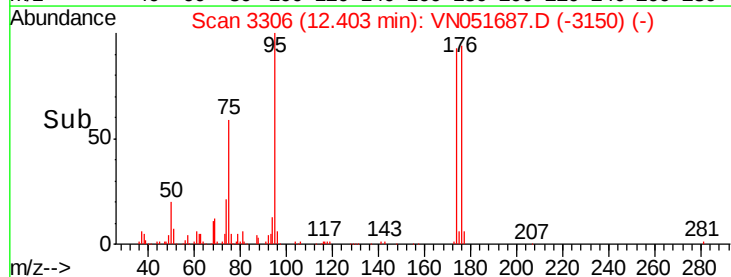
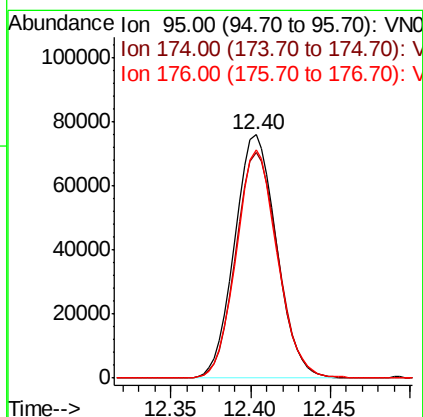
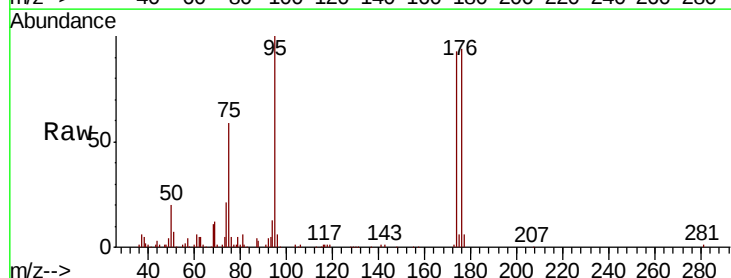
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

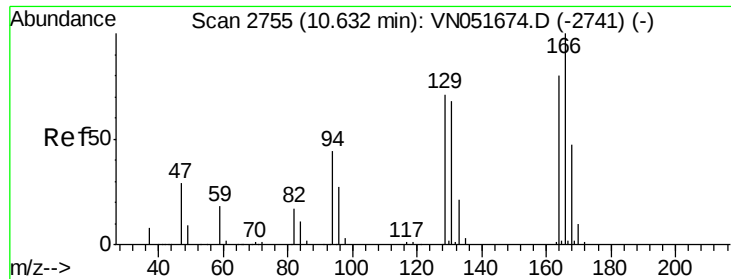
Tot Ion: 43 Resp: 981
Ion Ratio Lower Upper
43 100
58 42.1 41.3 61.9
57 25.2 13.4 20.0#



#60
4-Bromofluorobenzene
Concen: 0.466 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Tgt Ion: 95 Resp: 135654
Ion Ratio Lower Upper
95 100
174 92.9 73.5 110.3
176 91.8 70.2 105.2





#61

Tetrachloroethene

Concen: 0.226 ug/l

RT: 10.63 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(AUG)

Tot Ion:164 Resp: 1008

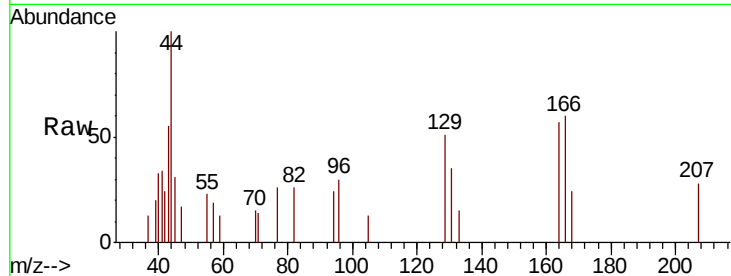
Ion Ratio Lower Upper

164 100

166 104.1 98.7 148.1

129 88.2 69.6 104.4

131 60.7 72.4 108.6#

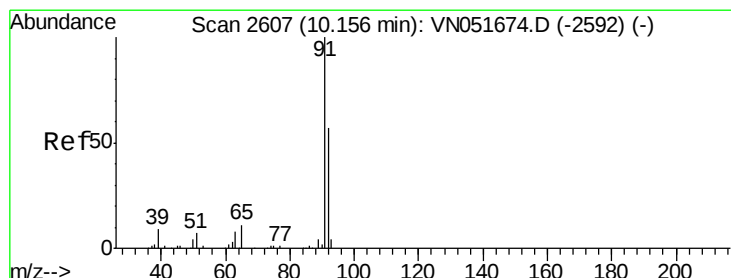
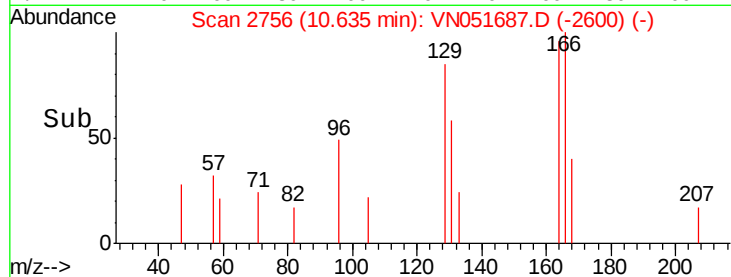
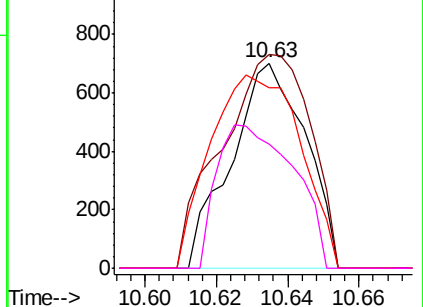


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 101.396 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051687.D

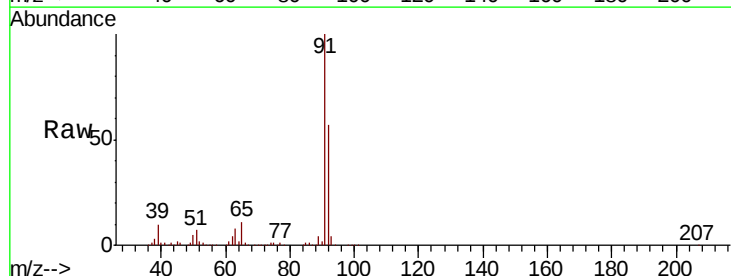
Acq: 5 Oct 2018 15:16

Tgt Ion: 91 Resp: 1945572

Ion Ratio Lower Upper

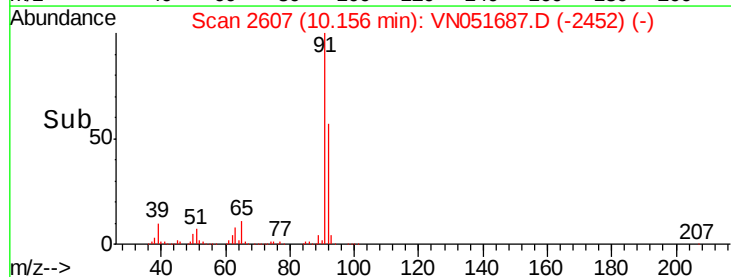
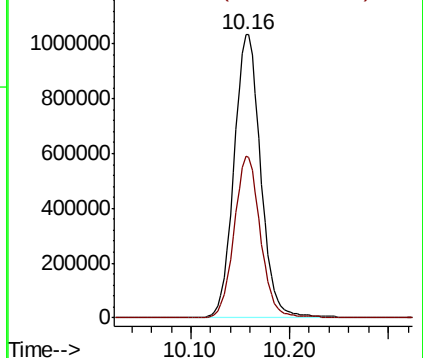
91 100

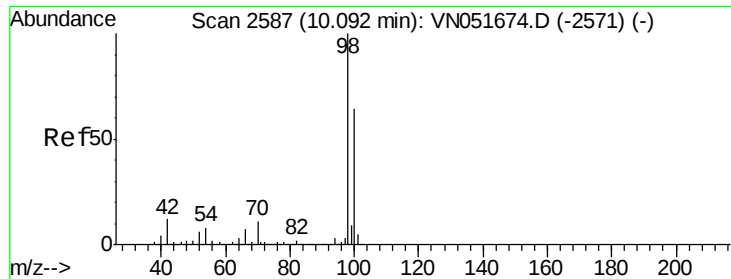
92 56.5 44.6 66.8



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0





#63

Toluene-d8

Concen: 101.396 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

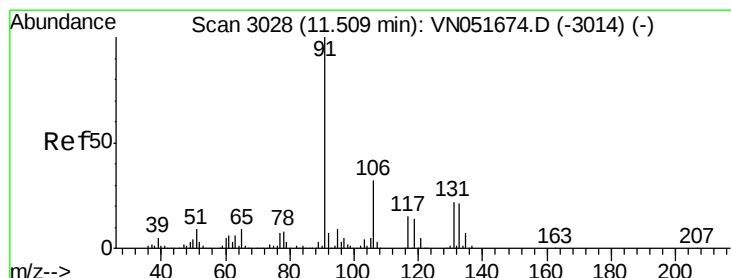
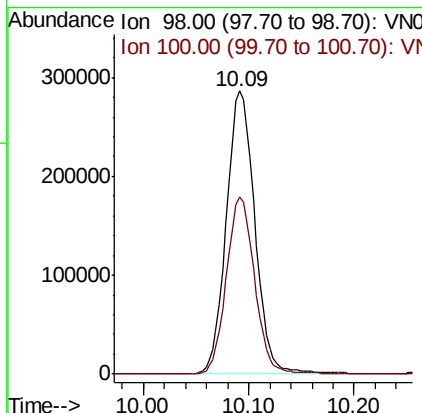
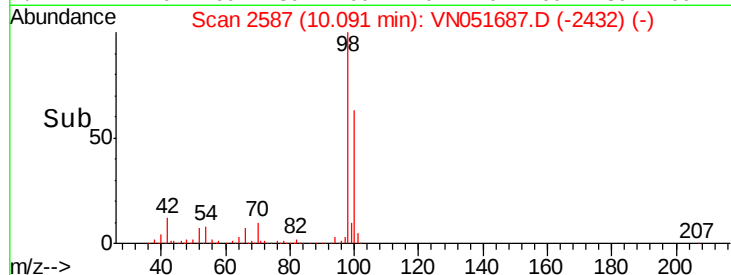
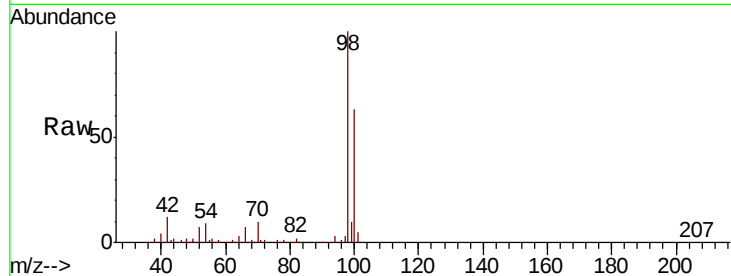
001-WILLETS-PT-BLVD(AUG)

Tot Ion: 98 Resp: 536188

Ion Ratio Lower Upper

98 100

100 61.7 50.8 76.2



#66

Ethyl Benzene

Concen: 0.266 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051687.D

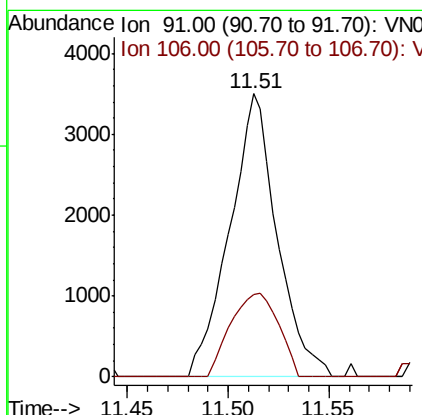
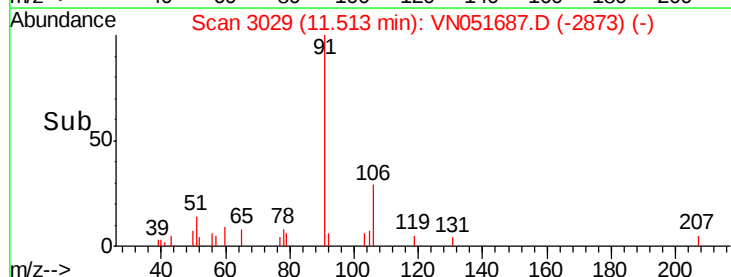
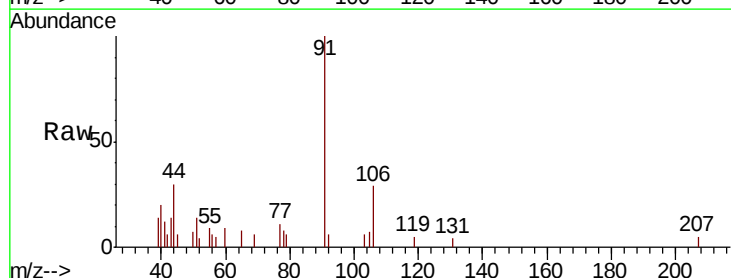
Acq: 5 Oct 2018 15:16

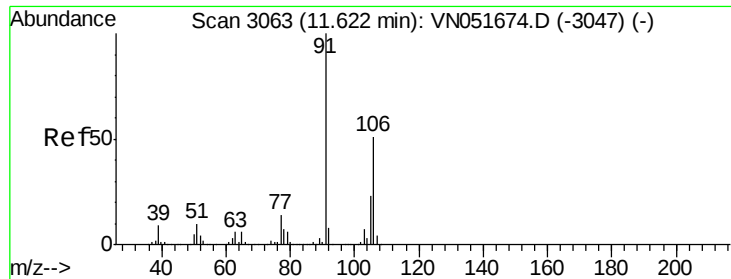
Tgt Ion: 91 Resp: 5751

Ion Ratio Lower Upper

91 100

106 29.2 25.9 38.9





#67

m/p-Xvlenes

Concen: 0.259 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

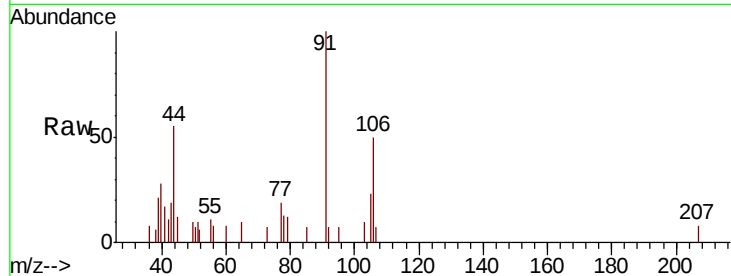
001-WILLETS-PT-BLVD(AUG)

Tot Ion:106 Resp: 2239

Ion Ratio Lower Upper

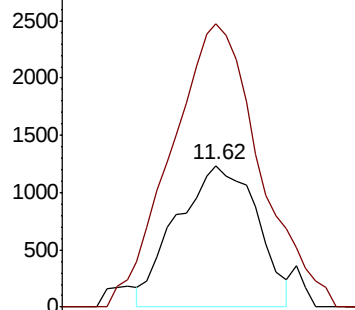
106 100

91 219.2 158.8 238.2

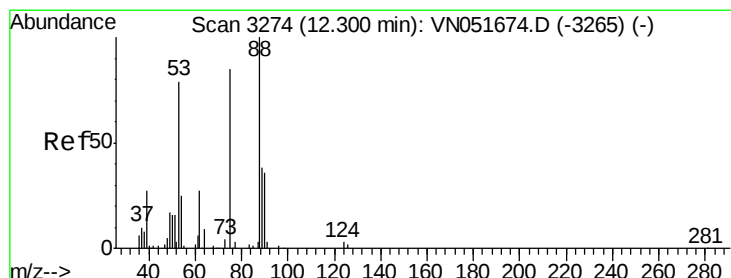
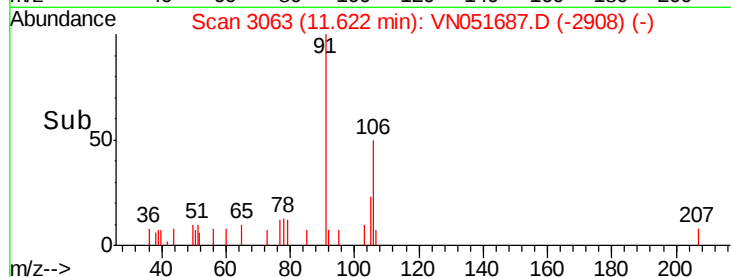


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VNO



Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 52.592 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

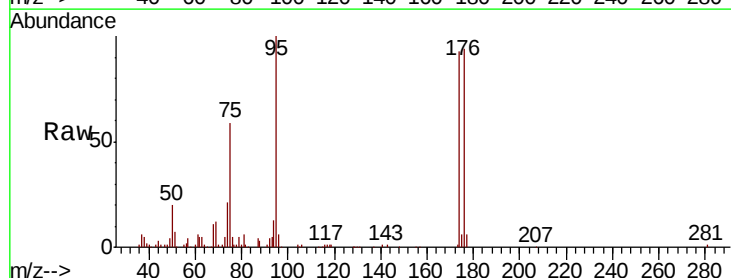
Tgt Ion: 75 Resp: 74742

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

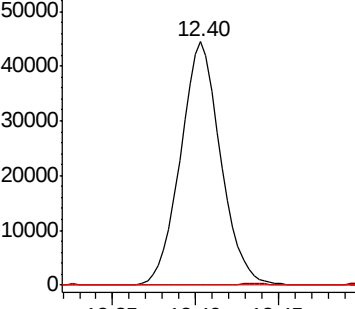
89 0.0 24.6 73.8#



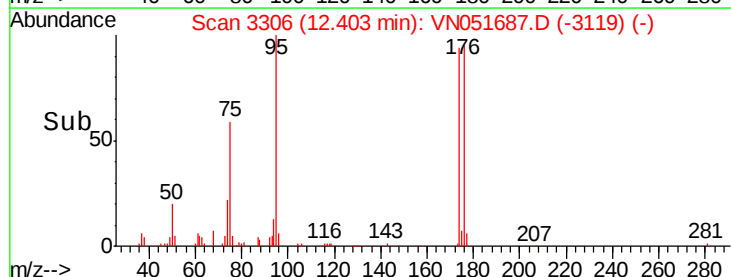
Abundance Ion 75.00 (74.70 to 75.70): VNO

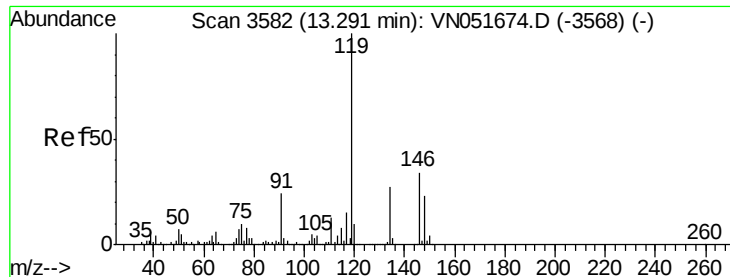
Ion 53.00 (52.70 to 53.70): VNO

Ion 89.00 (88.70 to 89.70): VNO



Time-->

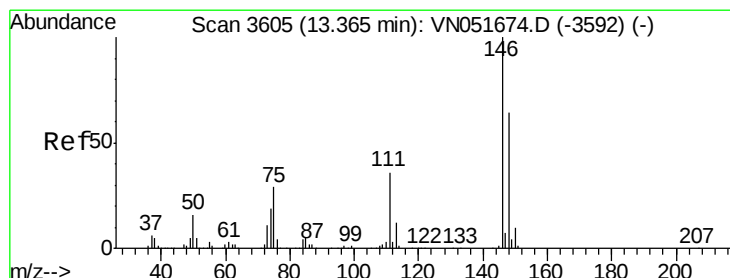
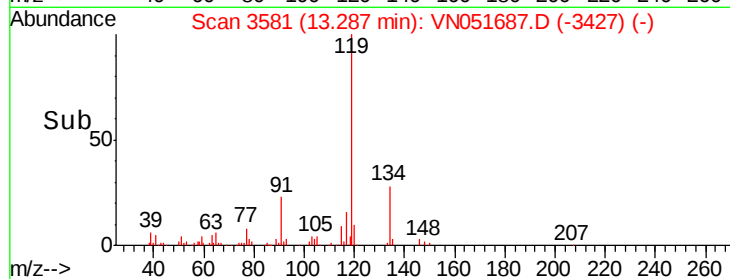
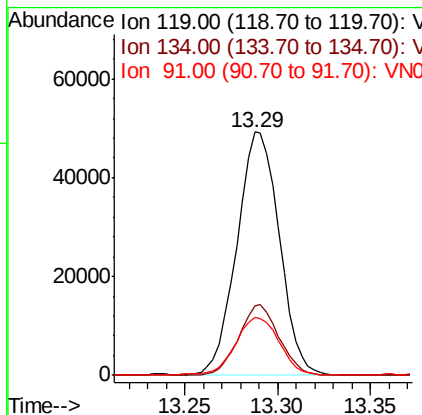
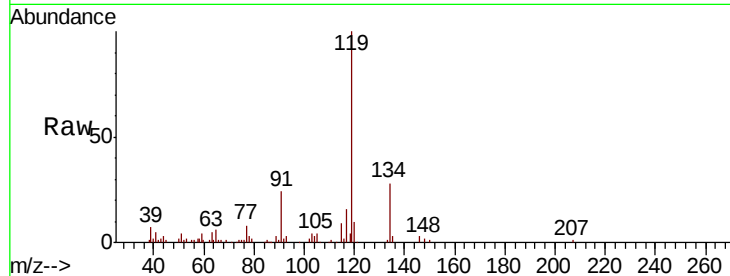




#82
 p-Isopropyltoluene
 Concen: 3.815 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. -0.00 min
 Lab File: VN051687.D
 Acq: 5 Oct 2018 15:16

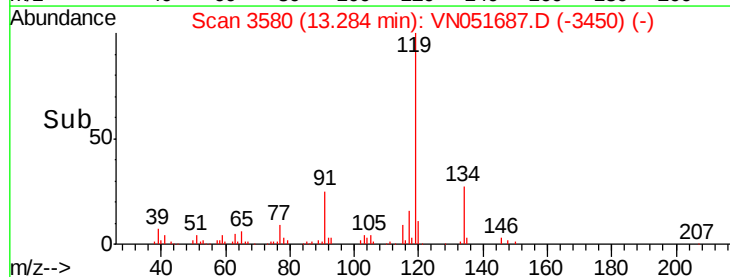
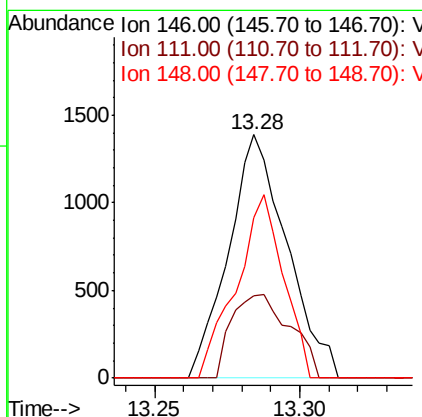
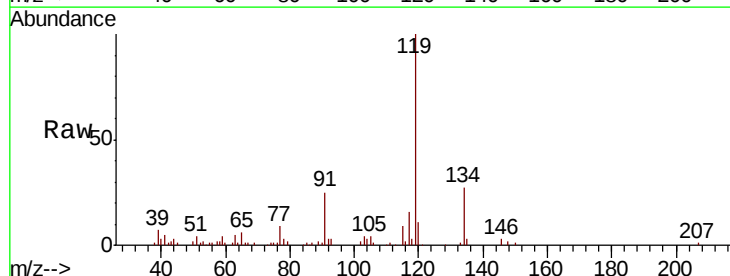
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(AUG)

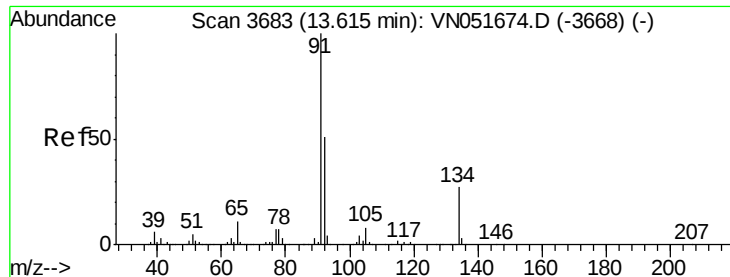
Tot Ion:119 Resp: 78501
 Ion Ratio Lower Upper
 119 100
 134 27.6 0.0 53.6
 91 24.7 0.0 52.0



#84
 1,4-Dichlorobenzene
 Concen: 0.206 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. -0.08 min
 Lab File: VN051687.D
 Acq: 5 Oct 2018 15:16

Tgt Ion:146 Resp: 1941
 Ion Ratio Lower Upper
 146 100
 111 34.4 17.4 52.2
 148 60.5 32.8 98.3

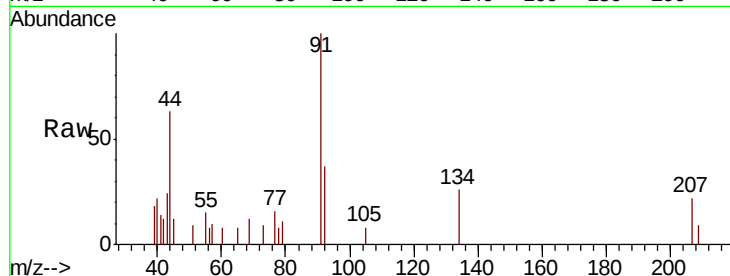




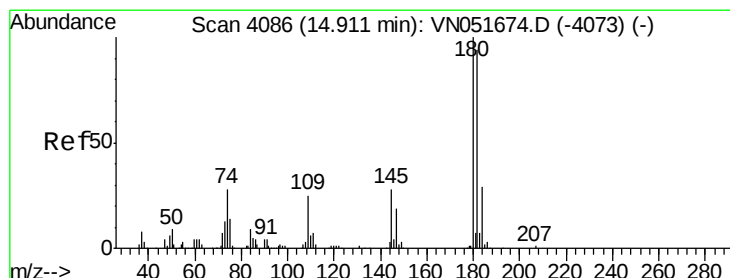
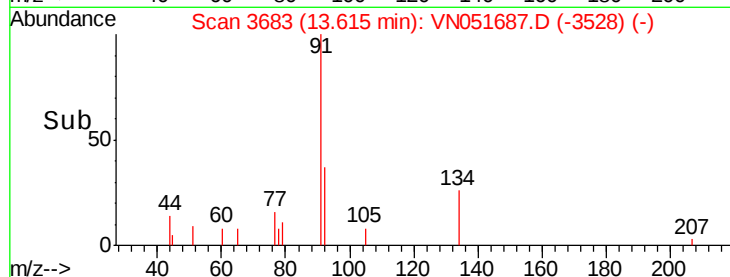
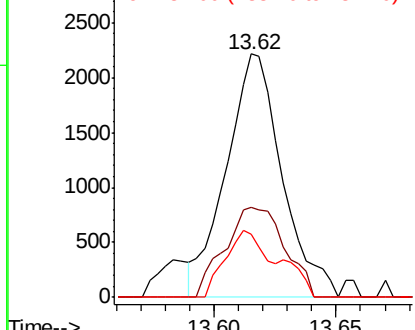
#85
n-Butylbenzene
Concen: 0.216 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(AUG)

Tot Ion: 91 Resp: 3521
Ion Ratio Lower Upper
91 100
92 39.7 0.0 97.4
134 20.0 0.0 49.6

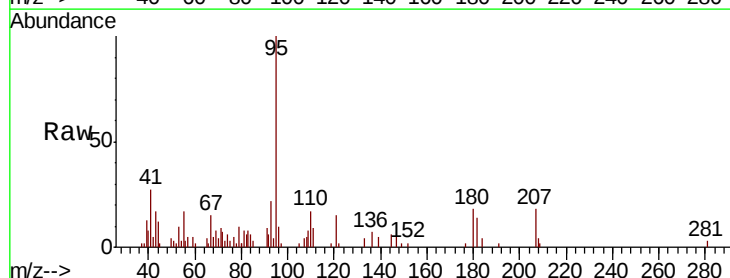


Abundance Ion 91.00 (90.70 to 91.70): VN051674.D (-3668) (-)
Ion 92.00 (91.70 to 92.70): VN051674.D (-3668) (-)
Ion 134.00 (133.70 to 134.70): VN051674.D (-3668) (-)

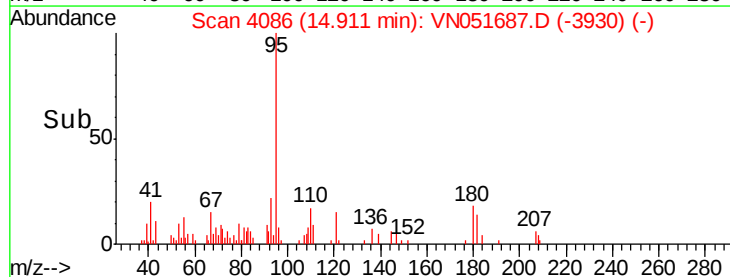
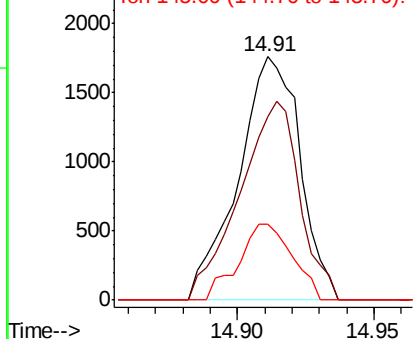


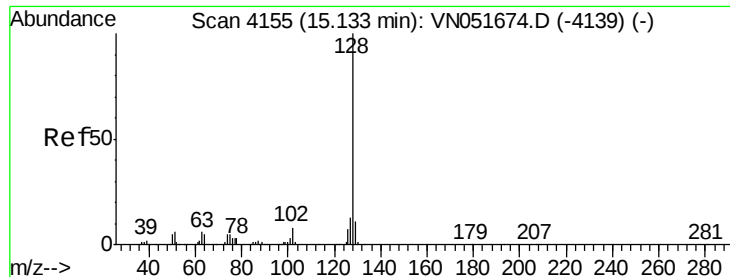
#89
1,2,4-Trichlorobenzene
Concen: 7.303 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN051687.D
Acq: 5 Oct 2018 15:16

Tgt Ion: 180 Resp: 2770
Ion Ratio Lower Upper
180 100
182 79.0 77.7 116.5
145 24.7 23.4 35.2



Abundance Ion 180.00 (179.70 to 180.70): VN051674.D (-4073) (-)
Ion 182.00 (181.70 to 182.70): VN051674.D (-4073) (-)
Ion 145.00 (144.70 to 145.70): VN051674.D (-4073) (-)





#91

Naphthalene

Concen: 0.950 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

Instrument:

MSVOA_N

ClientSampleId:

001-WILLETS-PT-BLVD(AUG)

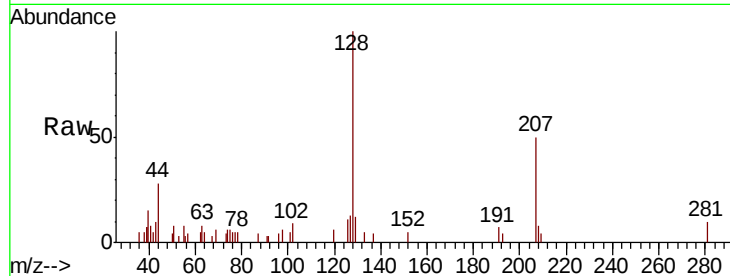
Tot Ion:128 Resp: 8655

Ion Ratio Lower Upper

128 100

127 9.8 10.1 15.1#

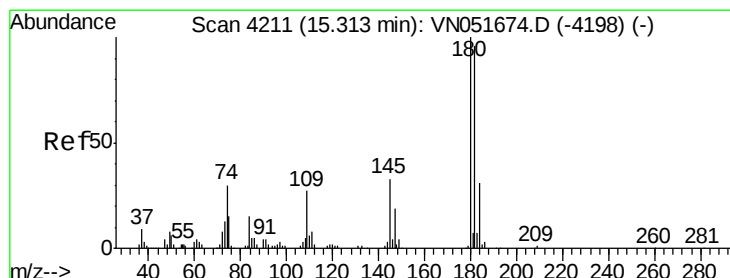
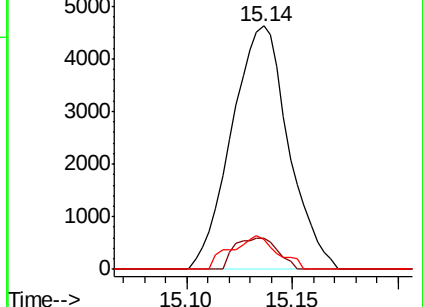
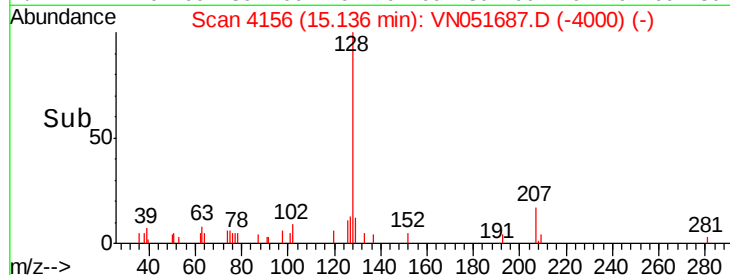
129 5.7 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.621 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051687.D

Acq: 5 Oct 2018 15:16

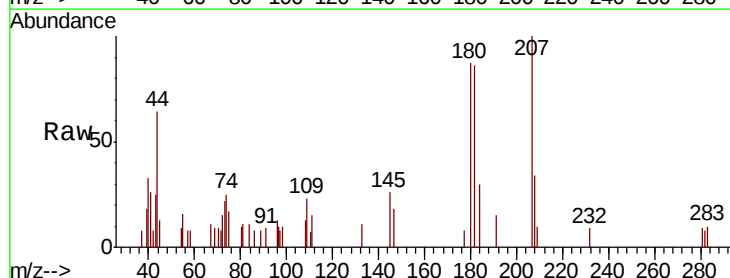
Tgt Ion:180 Resp: 2583

Ion Ratio Lower Upper

180 100

182 133.5 0.0 198.0

145 16.9 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

