

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090519\
 Data File : VN057696.D
 Acq On : 5 Sep 2019 11:24
 Operator : JC/SP
 Sample : K4677-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

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

Quant Time: Sep 06 01:28:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	56406	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	344926	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	278833	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	186294	31.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.57%
60) 4-Bromofluorobenzene	12.40	95	105657	22.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	73.93%
63) Toluene-d8	10.09	98	425789	31.71	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.70%

Target Compounds

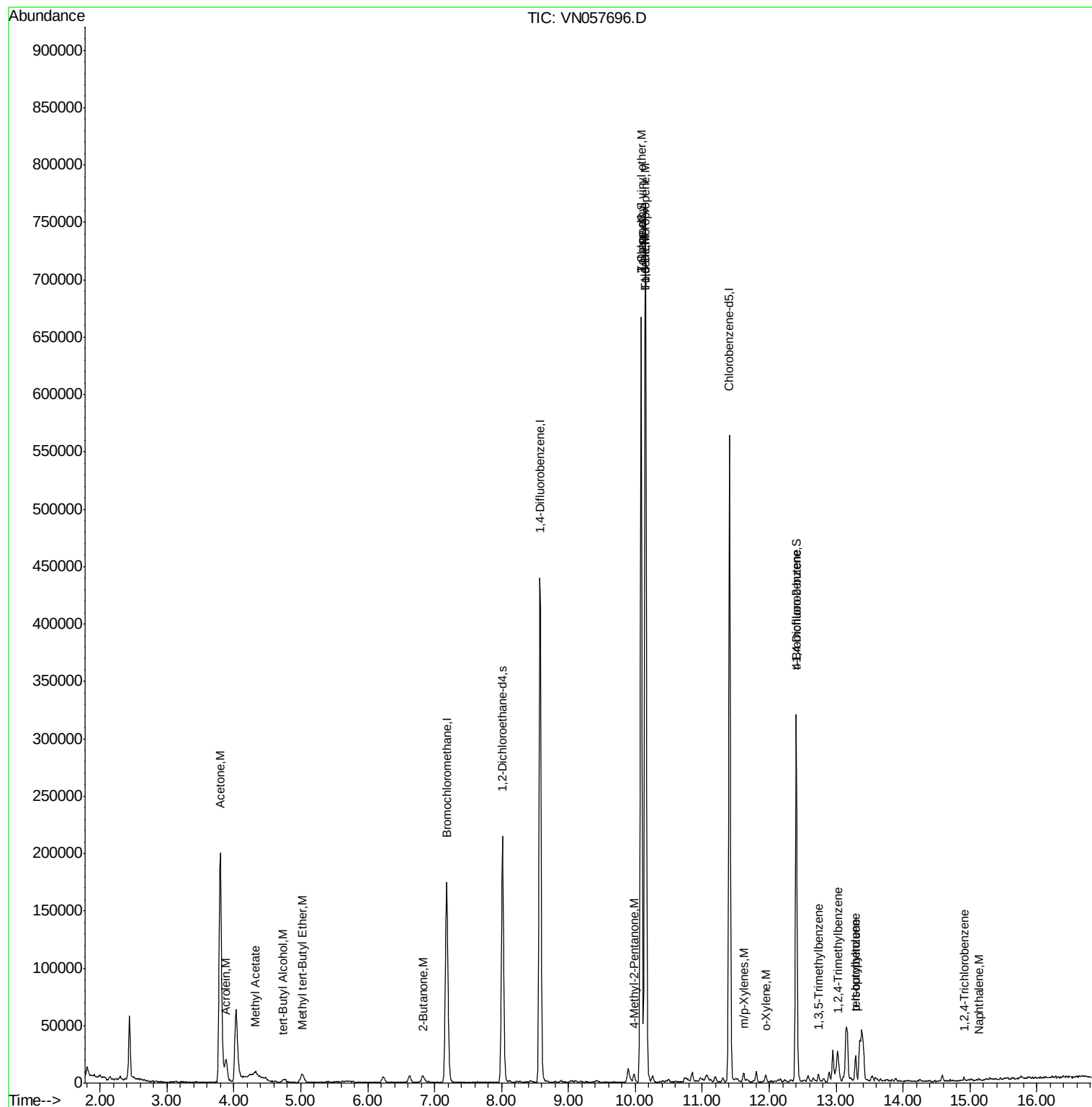
					Qvalue
12) Methyl Acetate	4.31	43	1272	0.268 ug/l #	75
13) Acrolein	3.89	56	66	0.245 ug/l #	1
15) Acetone	3.80	58	86274	177.874 ug/l	93
23) tert-Butyl Alcohol	4.74	59	584	0.929 ug/l #	100
24) Methyl tert-Butyl Ether	5.02	73	8924	0.706 ug/l	90
30) 2-Butanone	6.83	43	8982	3.452 ug/l #	85
48) t-1,3-Dichloropropene	10.15	75	4479	0.704 ug/l #	1
55) 2-Chloroethyl vinyl ether	10.08	63	748	0.384 ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	5237	1.063 ug/l #	59
62) Toluene	10.15	91	548215	35.017 ug/l	99
67) m/p-Xylenes	11.62	106	2178	0.355 ug/l	93
68) o-Xylene	11.95	106	1422	0.233 ug/l	78
76) 1,3,5-Trimethylbenzene	12.74	105	3291	0.236 ug/l	92
77) t-1,4-Dichloro-2-butene	12.40	75	62883	49.665 ug/l #	1
79) tert-butylbenzene	13.29	119	5234	0.438 ug/l	52
80) 1,2,4-Trimethylbenzene	13.04	105	4907	0.375 ug/l	85
82) p-Isopropyltoluene	13.29	119	5234	0.400 ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	702	0.413 ug/l #	33
91) Naphthalene	15.13	128	1395	0.316 ug/l #	69

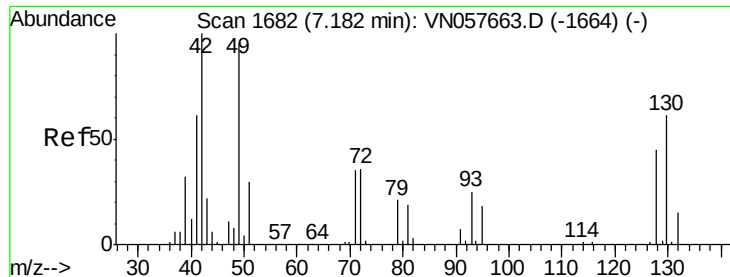
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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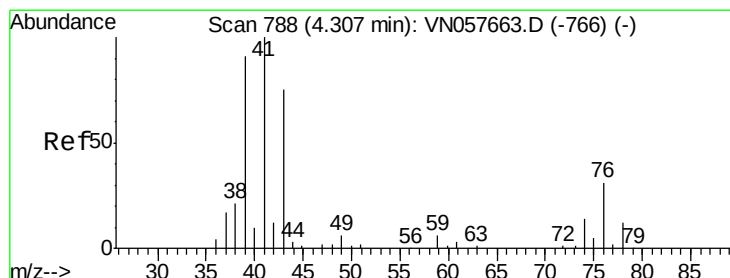
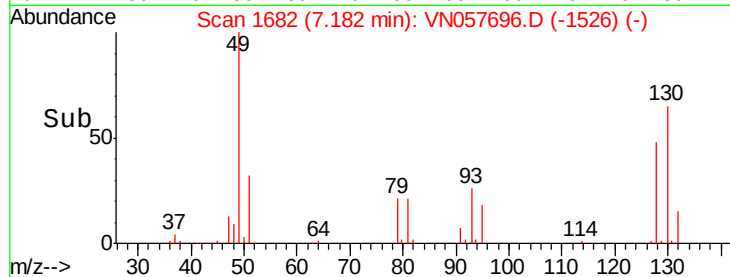
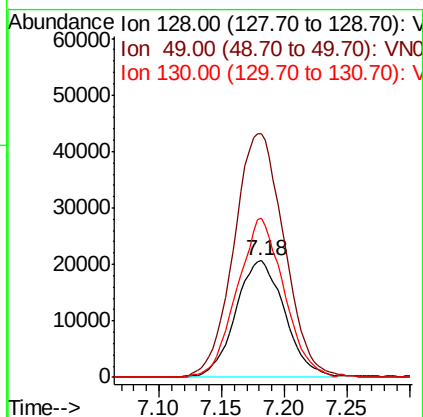
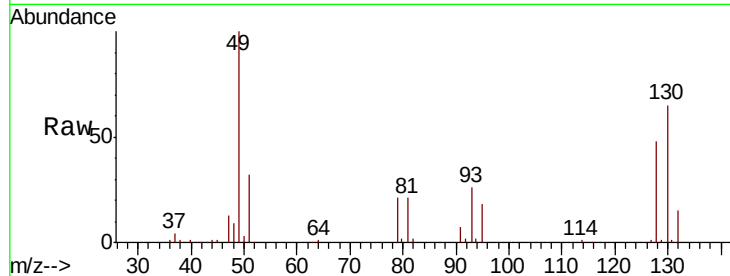




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.18 min Scan# 1682
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

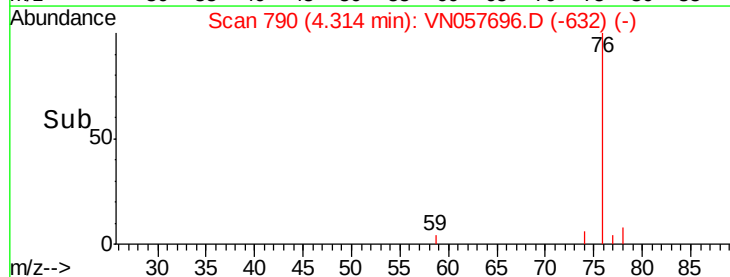
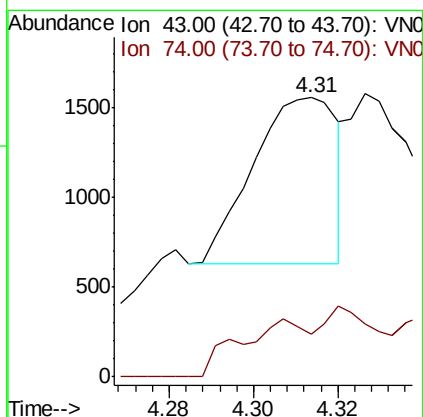
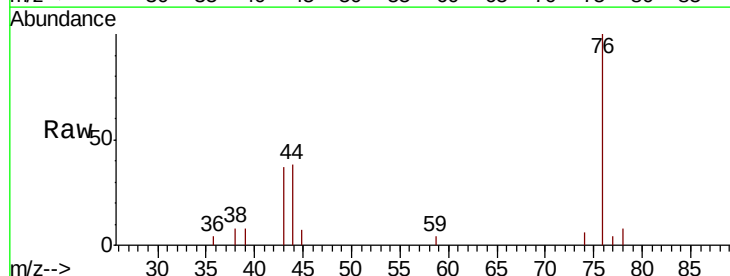
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(SEP)

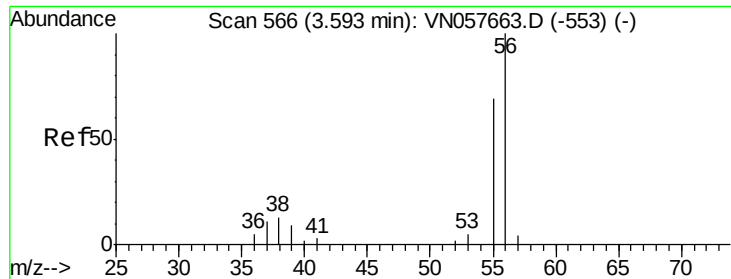
Tgt Ion:128 Resp: 56406
 Ion Ratio Lower Upper
 128 100
 49 213.5 0.0 544.5
 130 130.0 0.0 324.7



#12
 Methyl Acetate
 Concen: 0.268 ug/l
 RT: 4.31 min Scan# 790
 Delta R.T. 0.01 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

Tgt Ion: 43 Resp: 1272
 Ion Ratio Lower Upper
 43 100
 74 7.2 14.6 22.0#

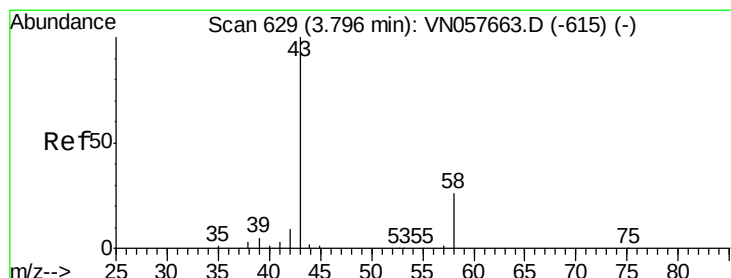
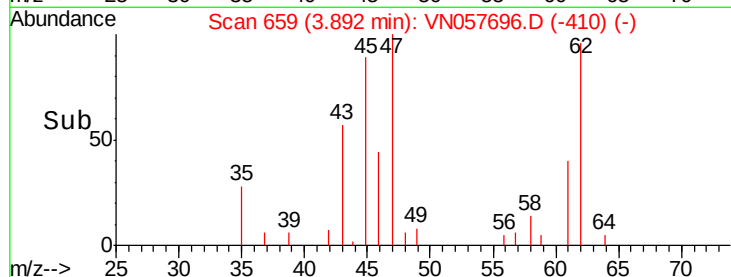
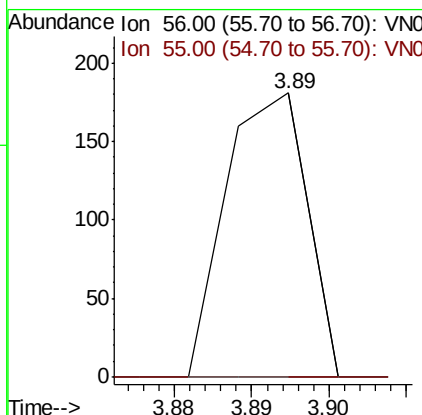
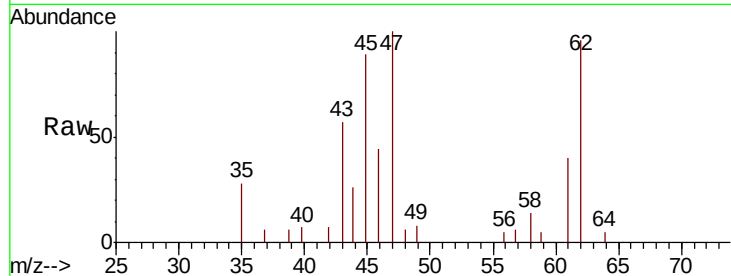




#13
Acrolein
Concen: 0.245 ug/l
RT: 3.89 min Scan# 659
Delta R.T. 0.30 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

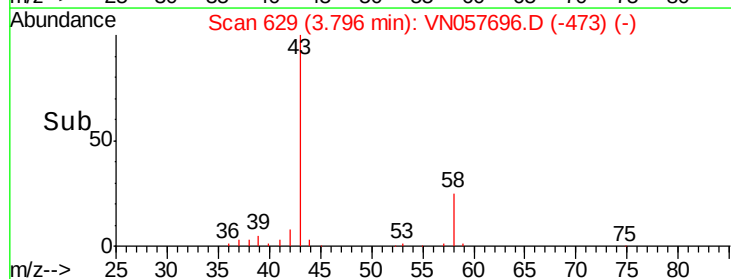
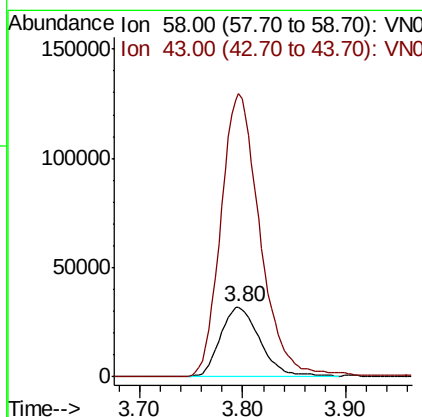
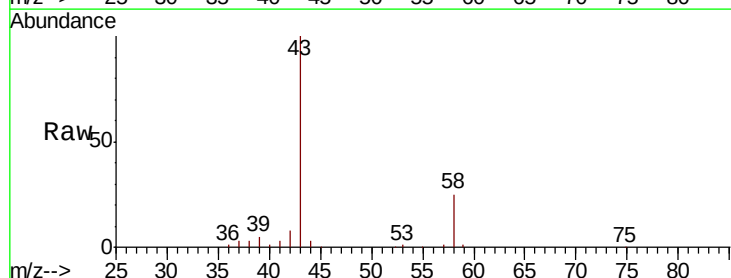
Instrument :
MSVOA_N
ClientSampleId :
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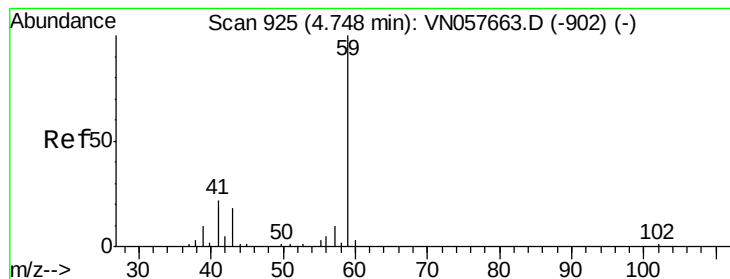
Tgt Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 295.5 54.2 81.4#



#15
Acetone
Concen: 177.874 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.00 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

Tgt Ion: 58 Resp: 86274
Ion Ratio Lower Upper
58 100
43 402.8 308.8 463.2





#23

tert-Butyl Alcohol

Concen: 0.929 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.00 min

Lab File: VN057696.D

Acq: 5 Sep 2019 11:24

Instrument :

MSVOA_N

ClientSampleId :

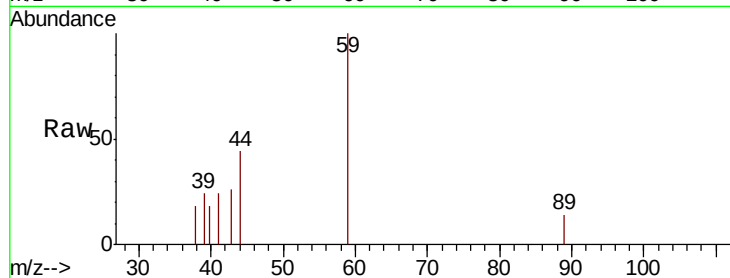
001-WILLETS-PT-BLVD-(SEP)

Tgt Ion: 59 Resp: 584

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN057663.D (-902) (-)

Ion 52.00 (51.70 to 52.70): VN057663.D (-902) (-)

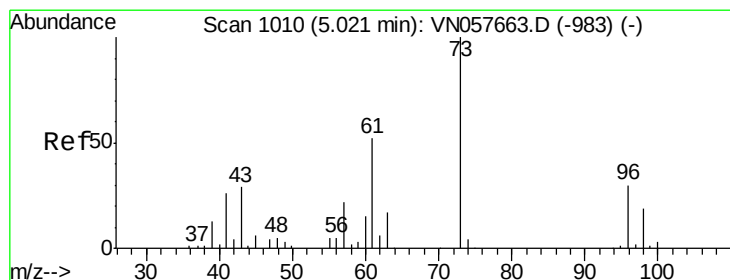
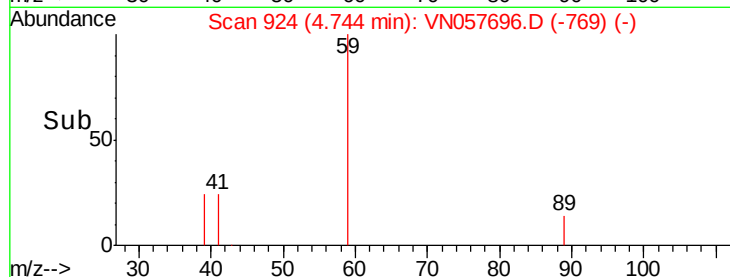
4.74

1000

500

0

Time-->



#24

Methyl tert-Butyl Ether

Concen: 0.706 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN057696.D

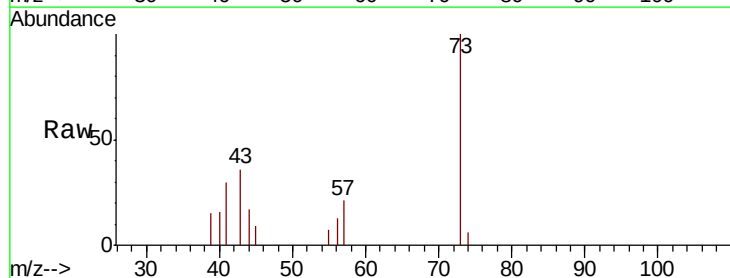
Acq: 5 Sep 2019 11:24

Tgt Ion: 73 Resp: 8924

Ion Ratio Lower Upper

73 100

43 34.4 23.2 34.8



Abundance Ion 73.00 (72.70 to 73.70): VN057663.D (-983) (-)

Ion 43.00 (42.70 to 43.70): VN057663.D (-983) (-)

5.02

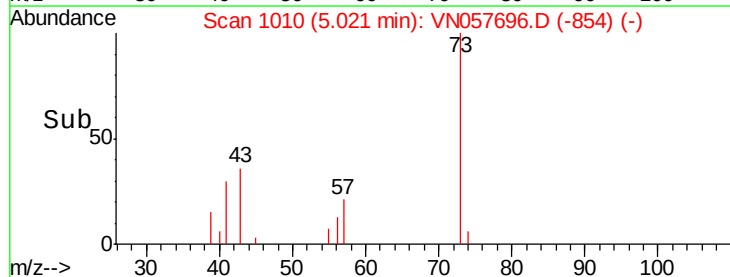
3000

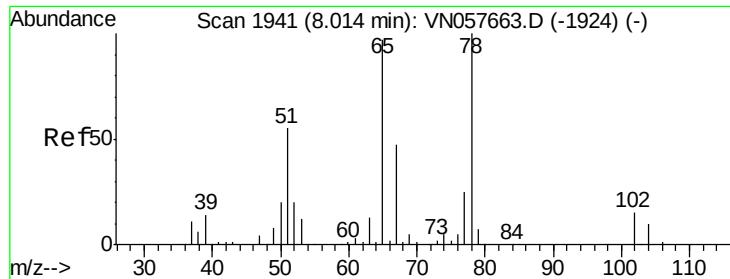
2000

1000

0

Time-->

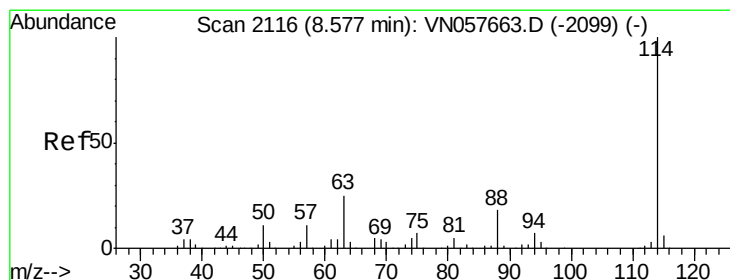
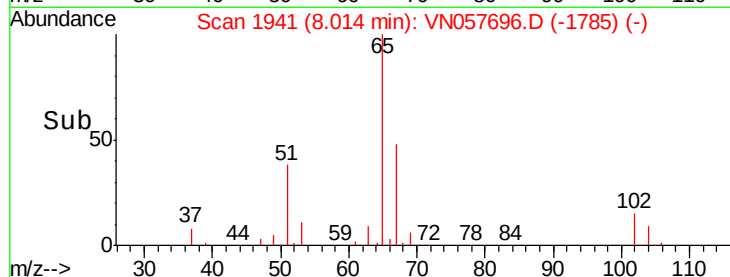
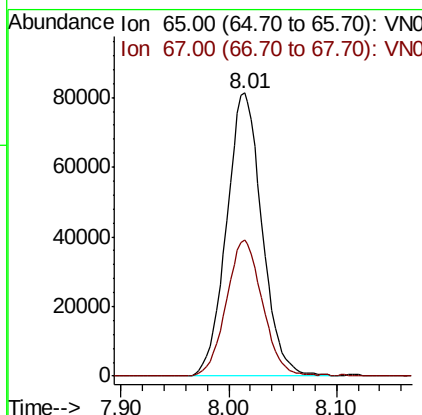
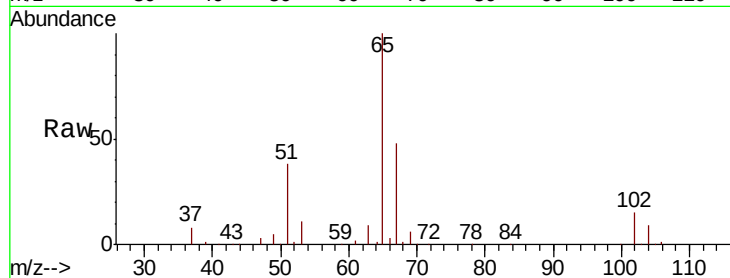




#27
 1,2-Dichloroethane-d4
 Concen: 31.069 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

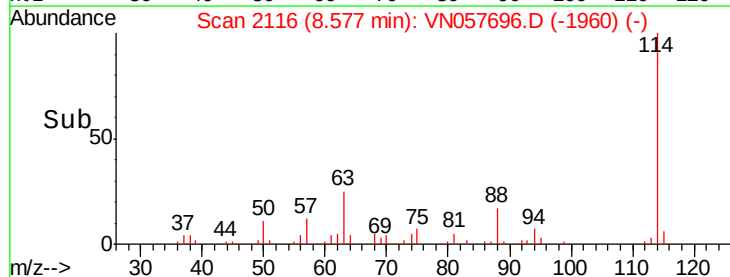
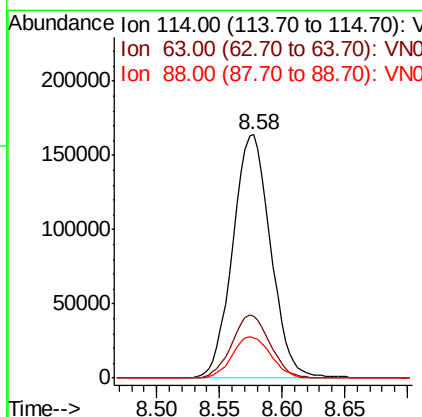
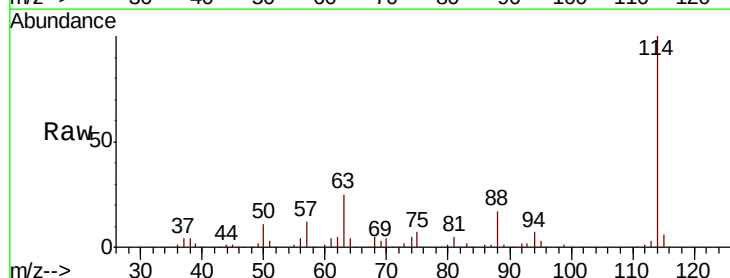
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 ClientSampleId :
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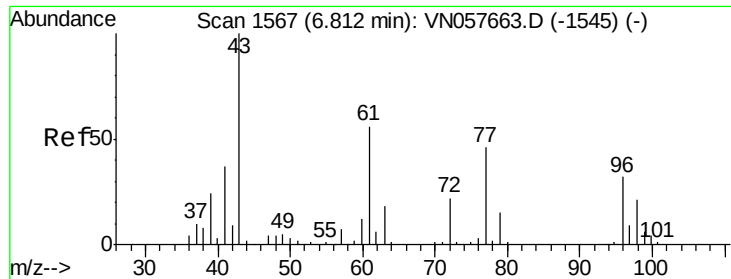
Tgt Ion: 65 Resp: 186294
 Ion Ratio Lower Upper
 65 100
 67 48.9 38.6 57.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

Tgt Ion: 114 Resp: 344926
 Ion Ratio Lower Upper
 114 100
 63 26.1 20.6 30.8
 88 17.3 14.3 21.5

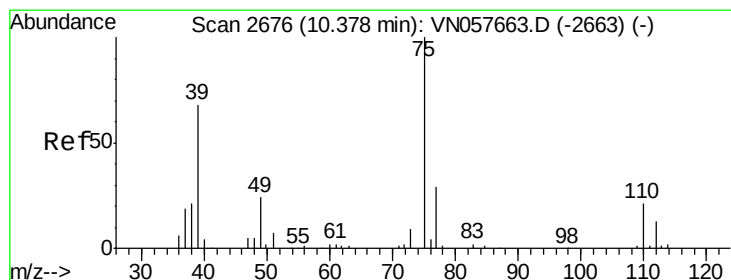
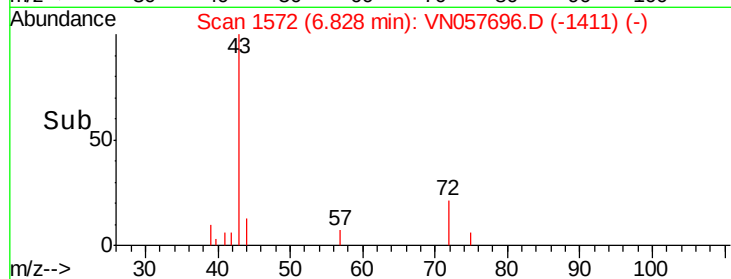
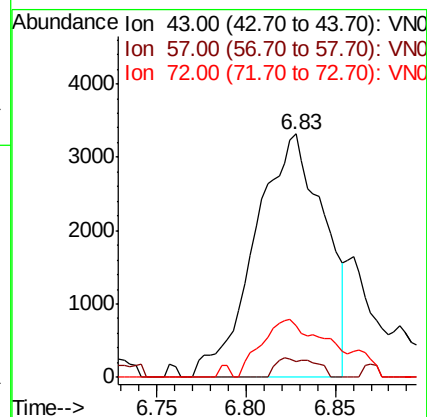
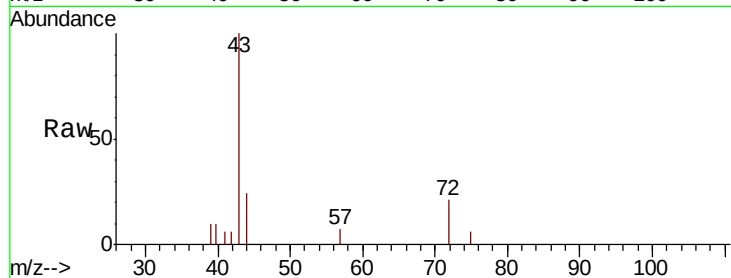




#30
 2-Butanone
 Concen: 3.452 ug/l
 RT: 6.83 min Scan# 1572
 Delta R.T. 0.02 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

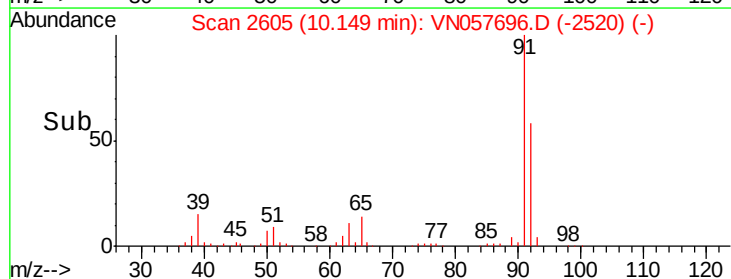
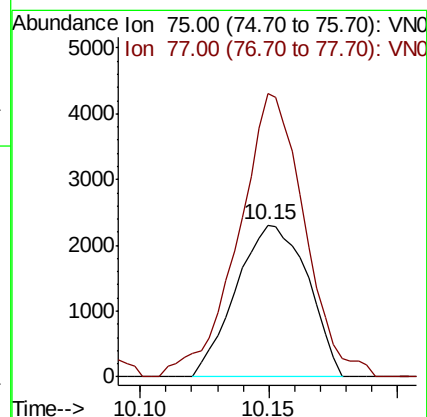
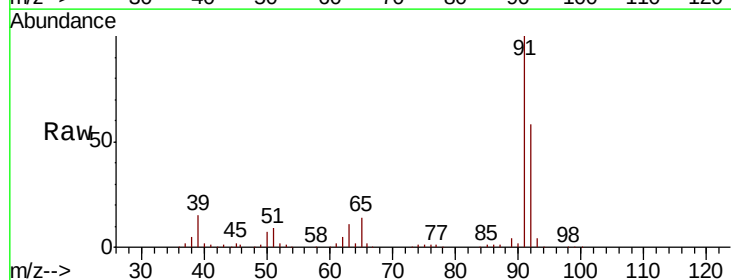
Instrument :
 MSVOA_N
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 001-WILLETS-PT-BLVD-(SEP)

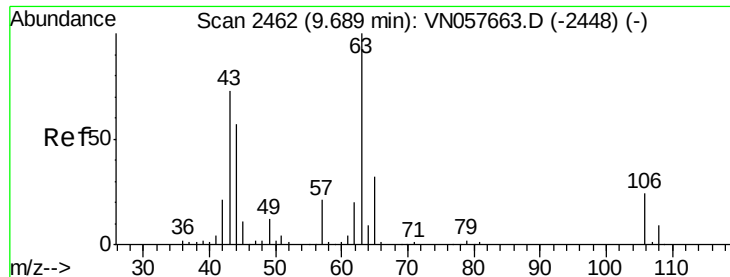
Tgt Ion: 43 Resp: 8982
 Ion Ratio Lower Upper
 43 100
 57 2.4 2.6 3.8#
 72 14.5 18.1 27.1#



#48
 t-1,3-Dichloropropene
 Concen: 0.704 ug/l
 RT: 10.15 min Scan# 2605
 Delta R.T. -0.23 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

Tgt Ion: 75 Resp: 4479
 Ion Ratio Lower Upper
 75 100
 77 174.7 23.1 34.7#

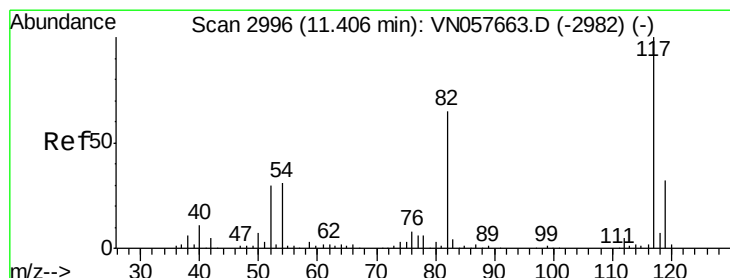
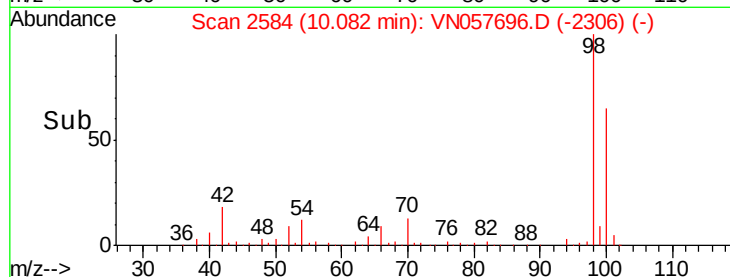
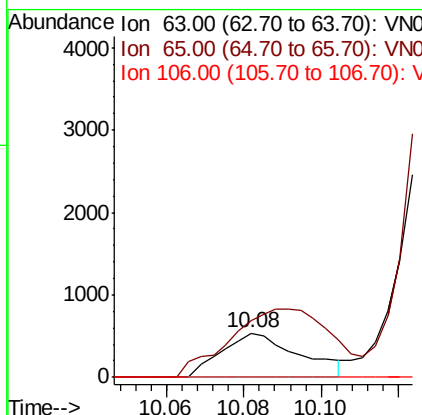
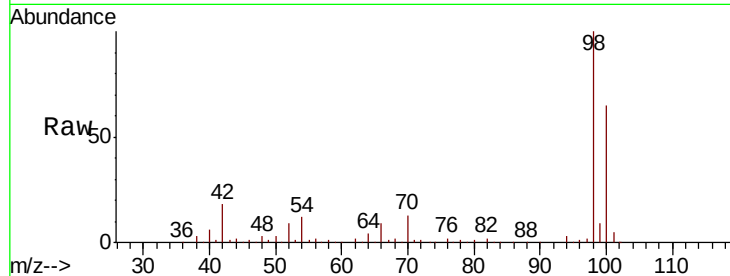




#55
2-Chloroethyl vinyl ether
Concen: 0.384 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.39 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

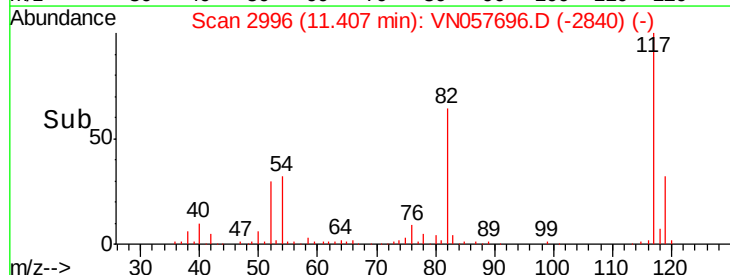
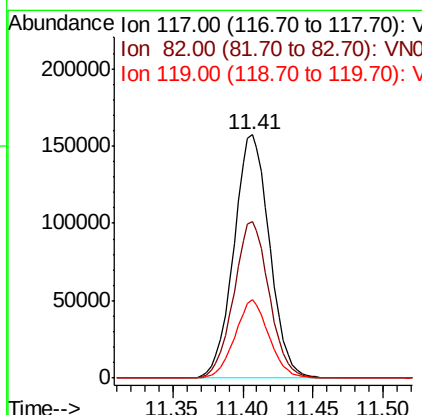
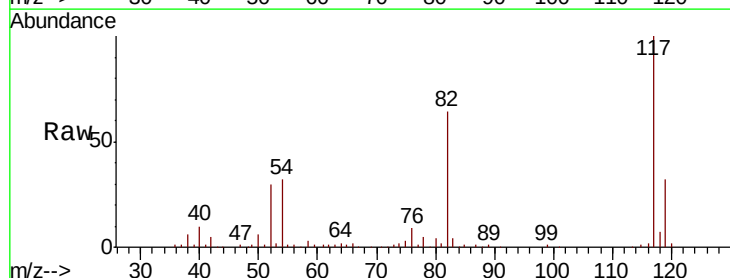
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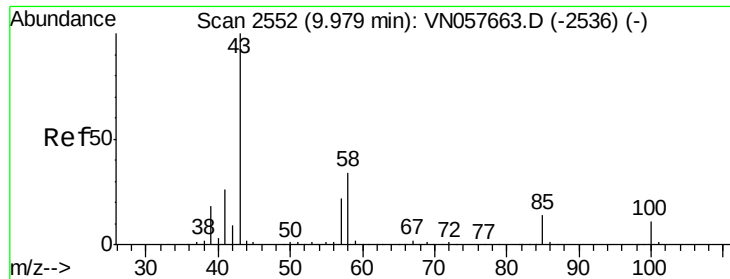
Tgt Ion: 63 Resp: 748
Ion Ratio Lower Upper
63 100
65 204.0 25.6 38.4#
106 0.0 19.5 29.3#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

Tgt Ion: 117 Resp: 278833
Ion Ratio Lower Upper
117 100
82 63.7 51.2 76.8
119 30.7 25.8 38.6

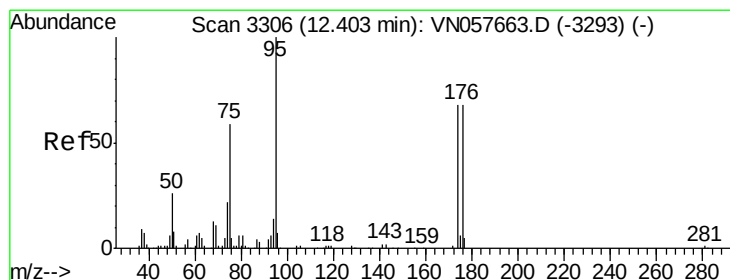
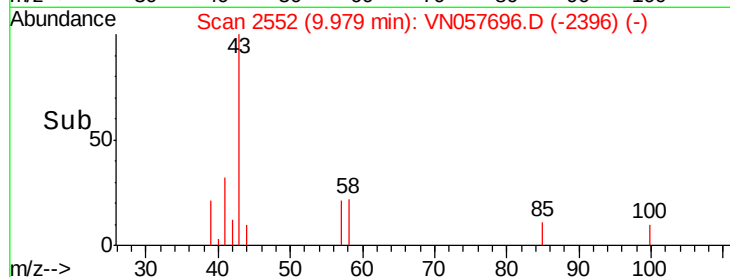
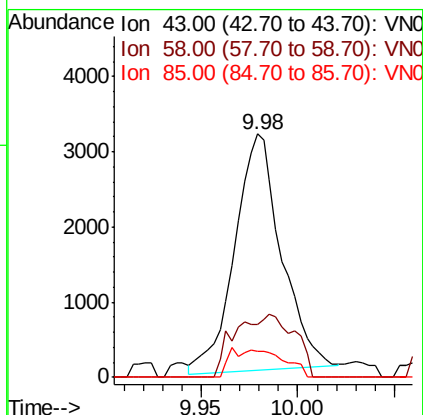
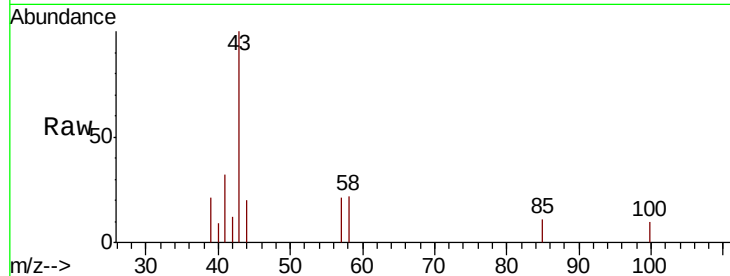




#58
 4-Methyl-2-Pentanone
 Concen: 1.063 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

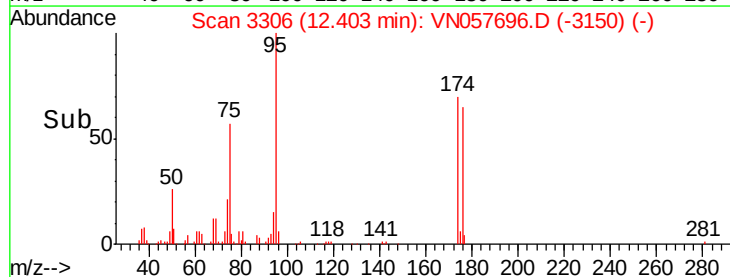
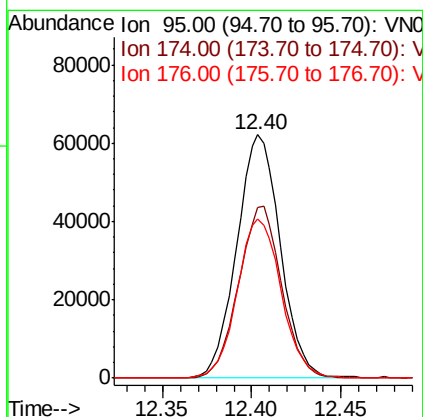
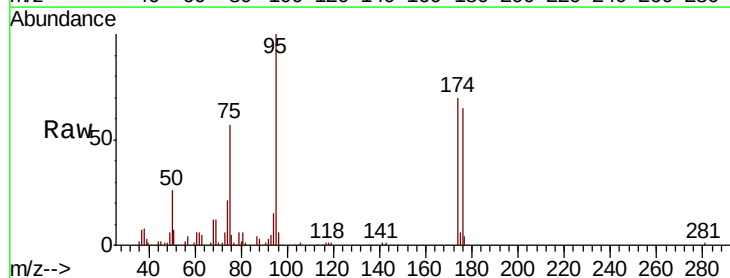
Instrument :
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 001-WILLETS-PT-BLVD-(SEP)

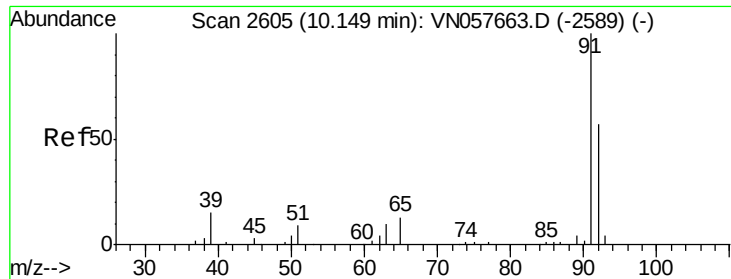
Tgt Ion: 43 Resp: 5237
 Ion Ratio Lower Upper
 43 100
 58 5.3 26.7 40.1#
 85 5.8 11.2 16.8#



#60
 4-Bromofluorobenzene
 Concen: 22.180 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

Tgt Ion: 95 Resp: 105657
 Ion Ratio Lower Upper
 95 100
 174 69.7 55.0 82.6
 176 66.2 53.7 80.5





#62

Toluene

Concen: 35.017 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. 0.00 min

Lab File: VN057696.D

Acq: 5 Sep 2019 11:24

Instrument :

MSVOA_N

ClientSampleId :

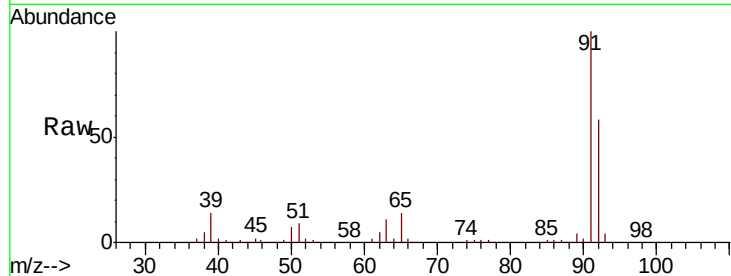
001-WILLETS-PT-BLVD-(SEP)

Tgt Ion: 91 Resp: 548215

Ion Ratio Lower Upper

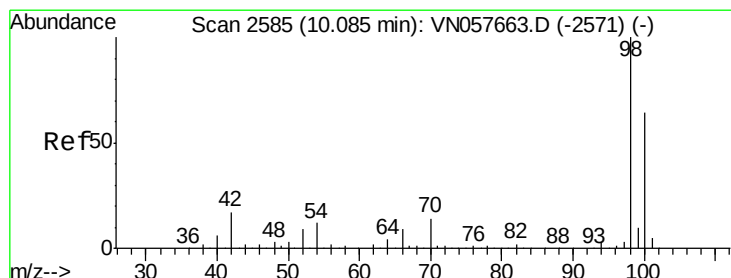
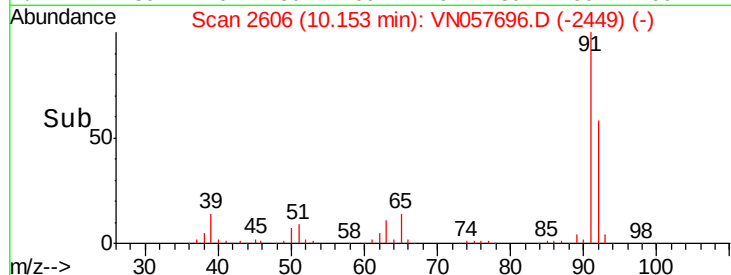
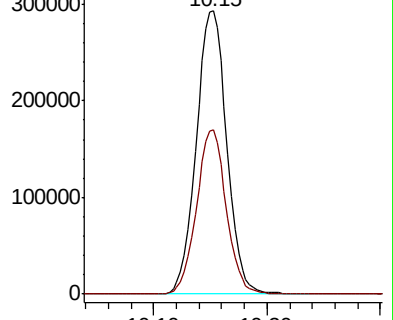
91 100

92 56.6 46.1 69.1



Abundance Ion 91.00 (90.70 to 91.70): VN057663.D (-2589) (-)

Ion 92.00 (91.70 to 92.70): VN057663.D (-2589) (-)



#63

Toluene-d8

Concen: 31.712 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057696.D

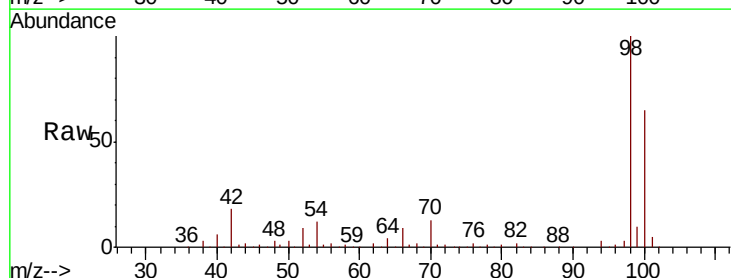
Acq: 5 Sep 2019 11:24

Tgt Ion: 98 Resp: 425789

Ion Ratio Lower Upper

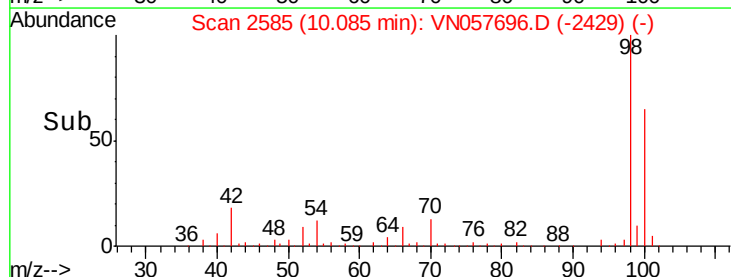
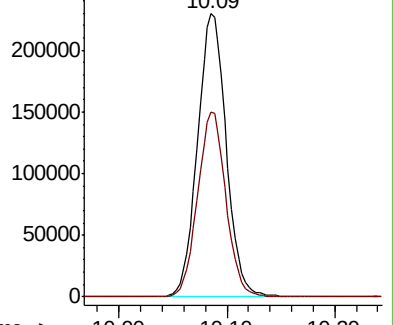
98 100

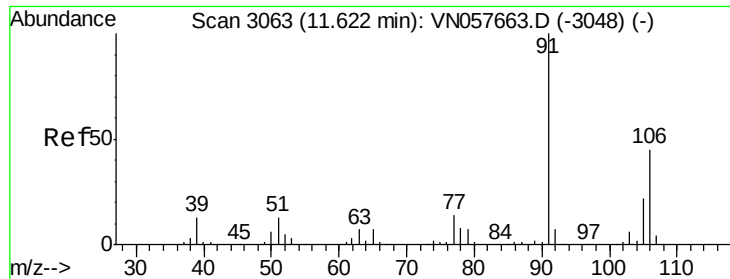
100 64.2 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN057663.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN057663.D (-2571) (-)

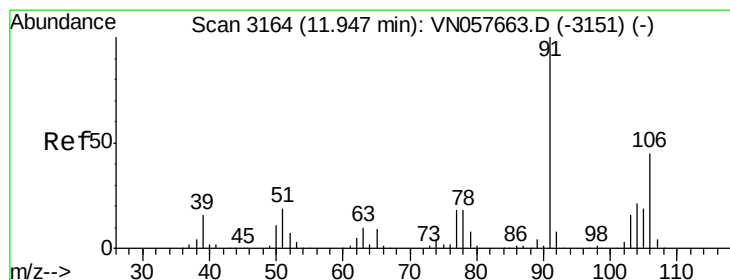
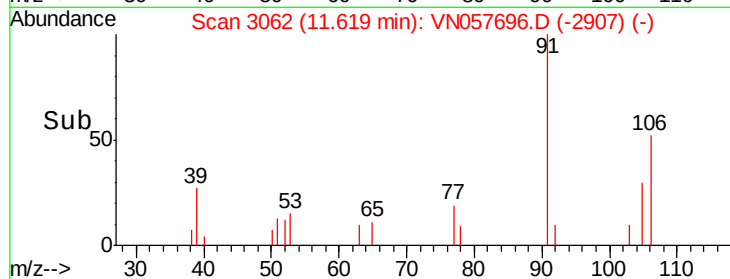
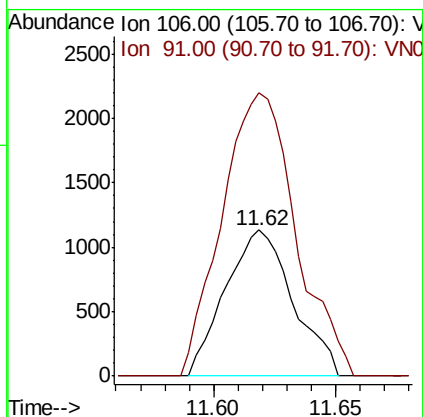
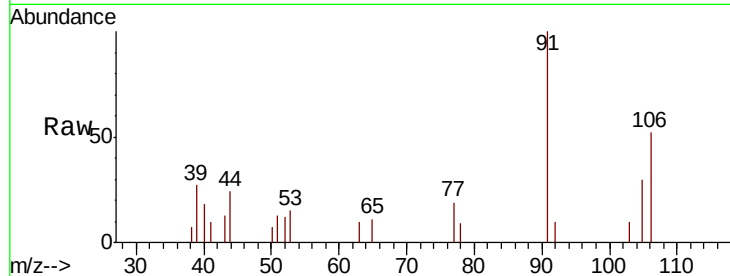




#67
m/p-Xylenes
Concen: 0.355 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

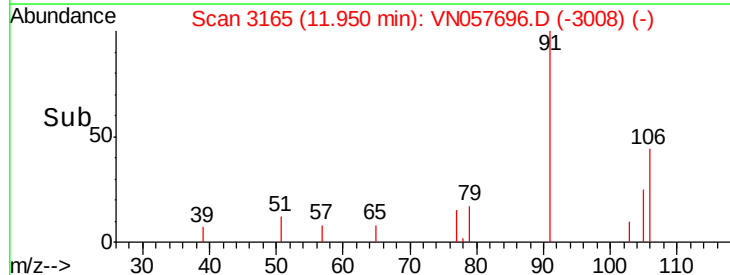
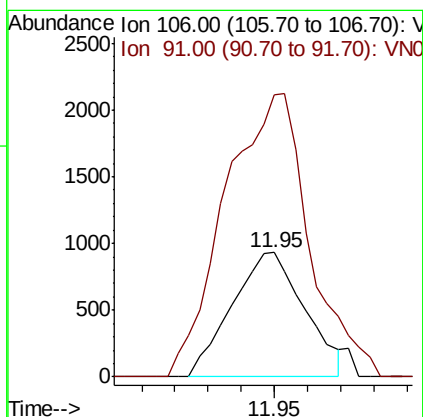
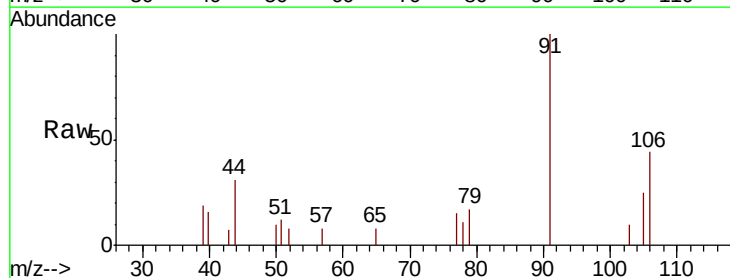
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD-(SEP)

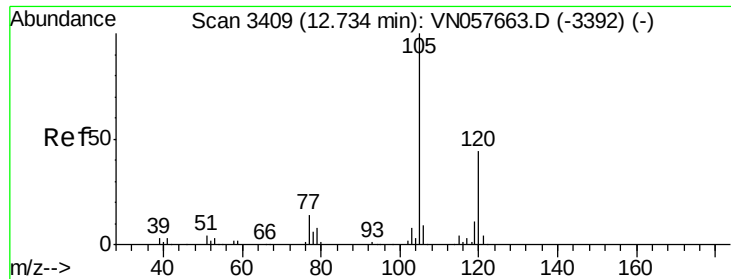
Tgt Ion:106 Resp: 2178
Ion Ratio Lower Upper
106 100
91 212.0 178.9 268.3



#68
o-Xylene
Concen: 0.233 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

Tgt Ion:106 Resp: 1422
Ion Ratio Lower Upper
106 100
91 263.9 114.0 342.0

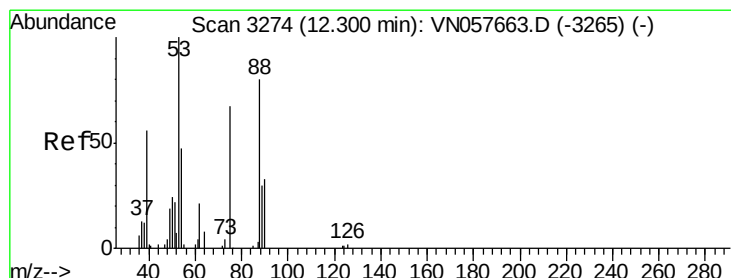
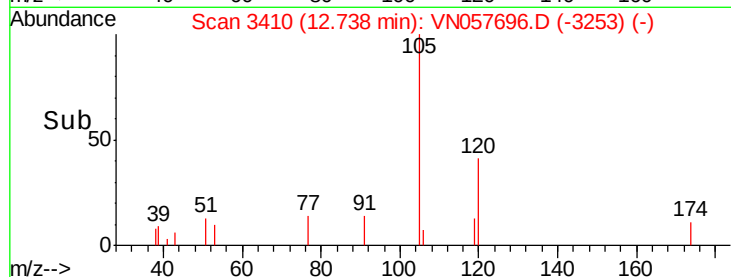
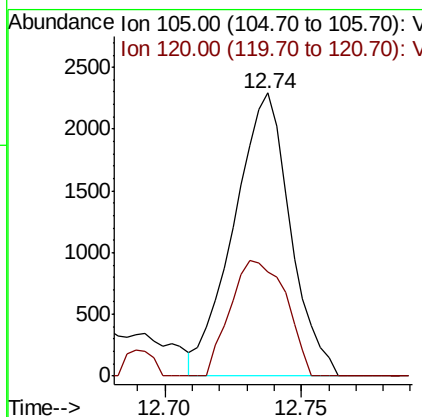
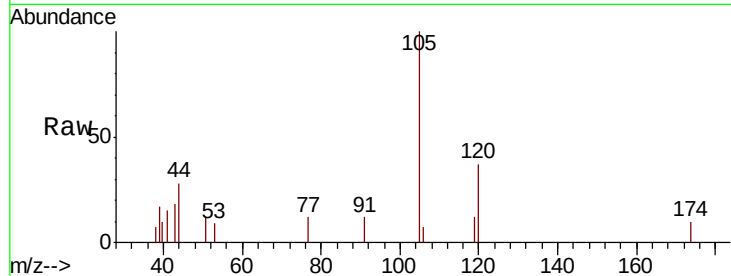




#76
 1,3,5-Trimethylbenzene
 Concen: 0.236 ug/l
 RT: 12.74 min Scan# 3410
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

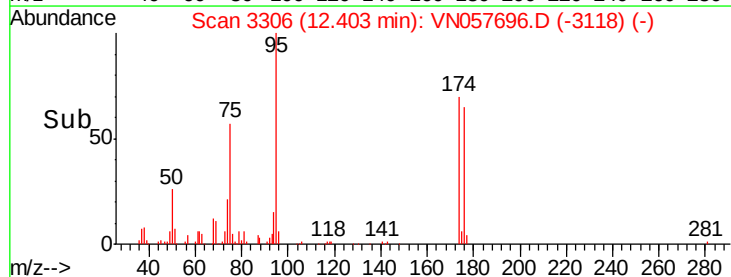
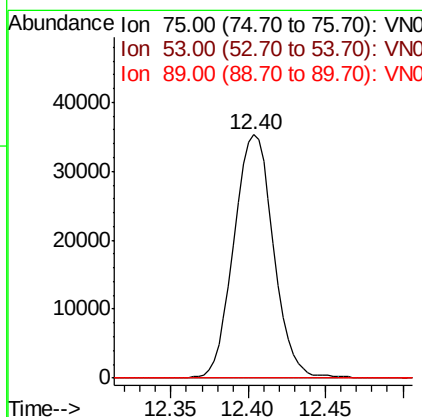
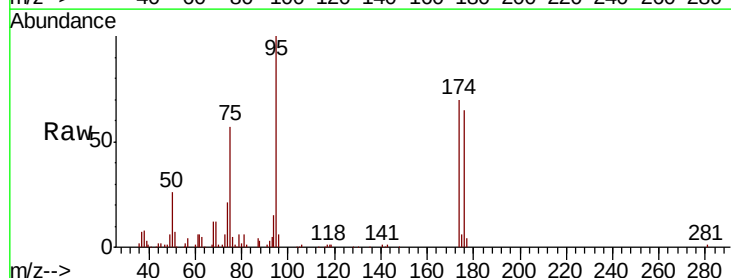
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(SEP)

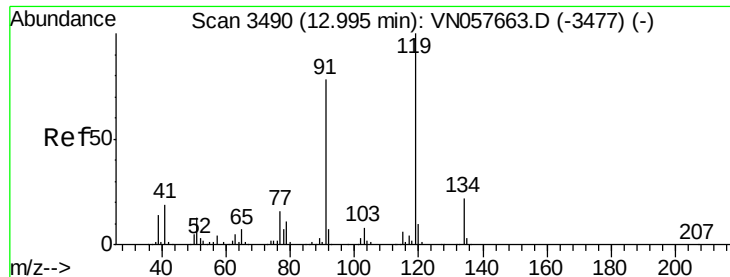
Tgt Ion: 105 Resp: 3291
 Ion Ratio Lower Upper
 105 100
 120 40.5 0.0 91.0



#77
 t-1,4-Dichloro-2-butene
 Concen: 49.665 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

Tgt Ion: 75 Resp: 62883
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.2 222.6#
 89 0.0 23.3 69.9#

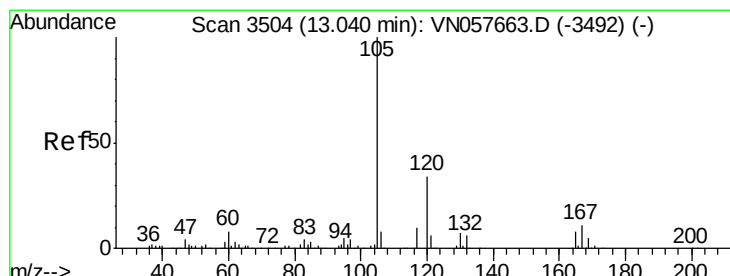
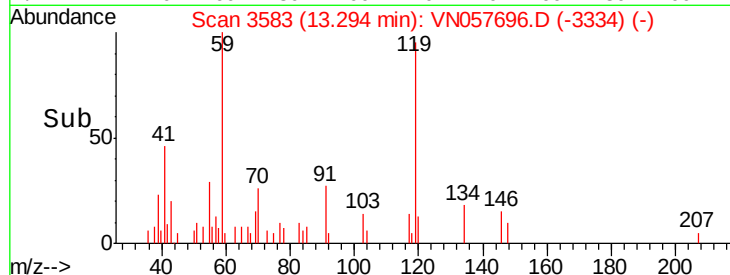
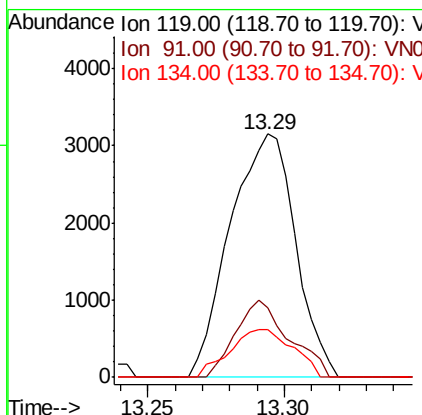
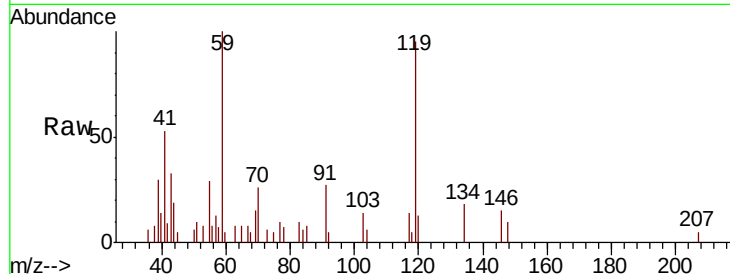




#79
tert-butylbenzene
Concen: 0.438 ug/l
RT: 13.29 min Scan# 3583
Delta R.T. 0.30 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

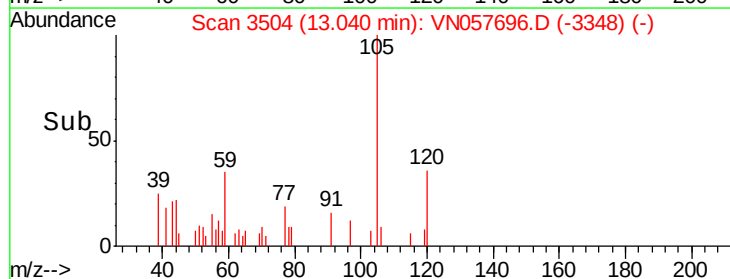
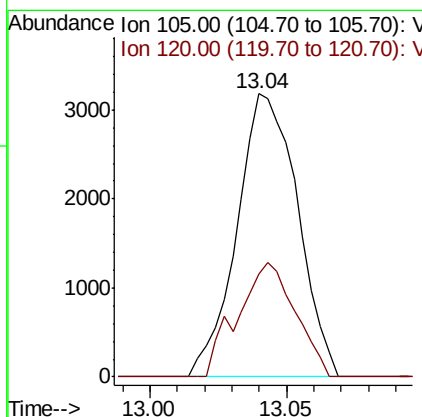
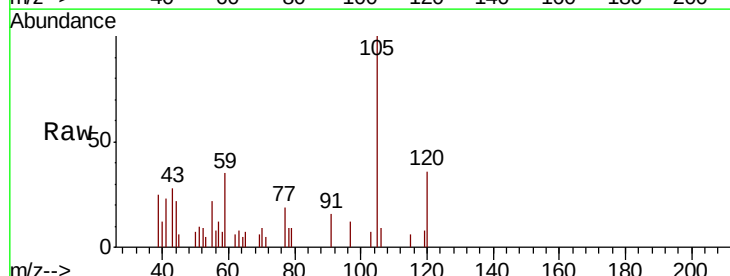
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD-(SEP)

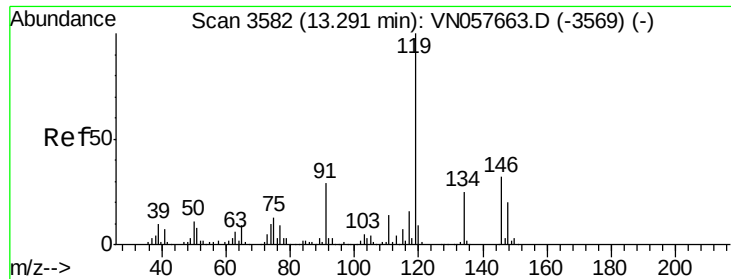
Tgt Ion:119 Resp: 5234
Ion Ratio Lower Upper
119 100
91 26.0 0.0 155.6
134 19.0 0.0 48.2



#80
1,2,4-Trimethylbenzene
Concen: 0.375 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. 0.00 min
Lab File: VN057696.D
Acq: 5 Sep 2019 11:24

Tgt Ion:105 Resp: 4907
Ion Ratio Lower Upper
105 100
120 32.1 0.0 83.4

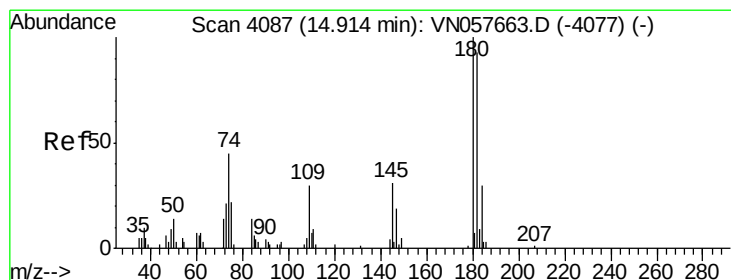
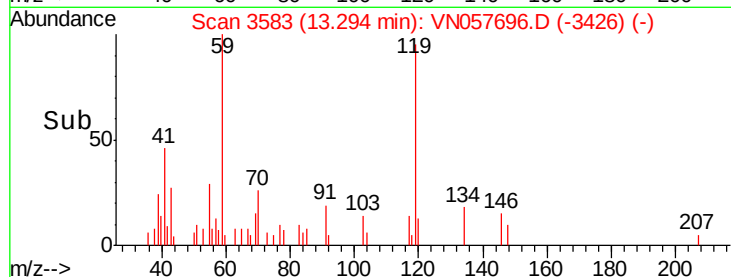
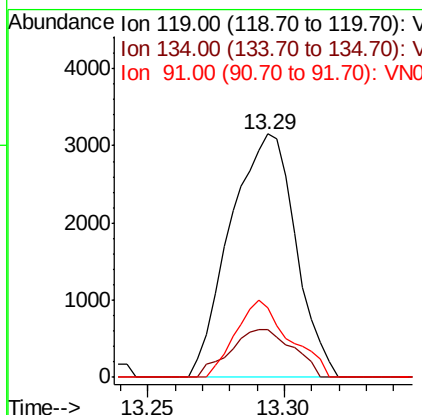
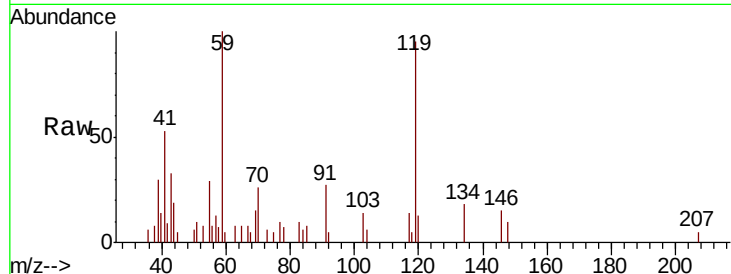




#82
 p-Isopropyltoluene
 Concen: 0.400 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

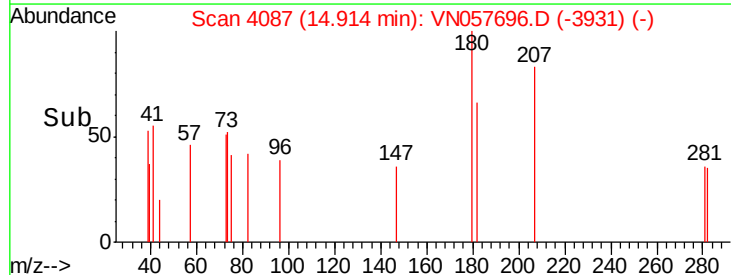
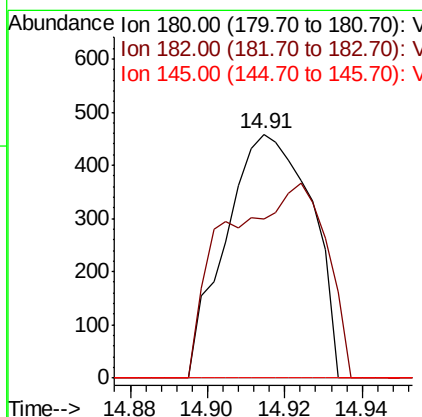
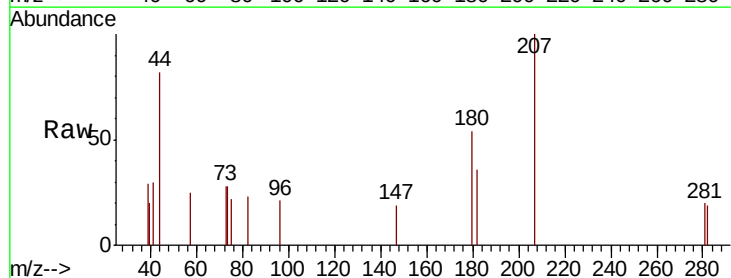
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD-(SEP)

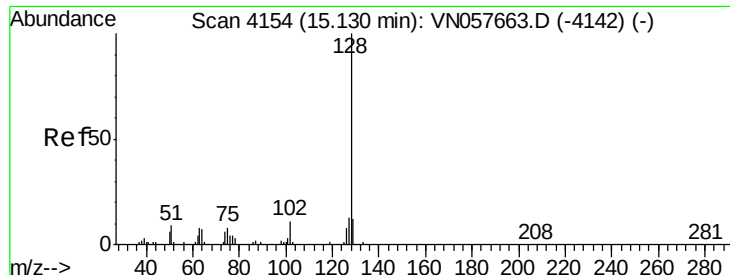
Tgt Ion:119 Resp: 5234
 Ion Ratio Lower Upper
 119 100
 134 19.0 0.0 49.6
 91 26.0 0.0 56.2



#89
 1,2,4-Trichlorobenzene
 Concen: 0.413 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN057696.D
 Acq: 5 Sep 2019 11:24

Tgt Ion:180 Resp: 702
 Ion Ratio Lower Upper
 180 100
 182 28.2 77.4 116.2#
 145 0.0 25.1 37.7#





#91

Naphthalene

Concen: 0.316 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057696.D

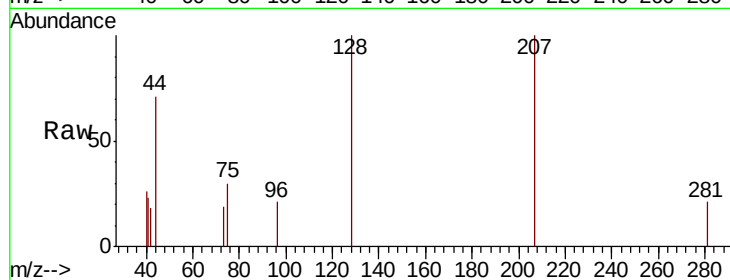
Acq: 5 Sep 2019 11:24

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD-(SEP)



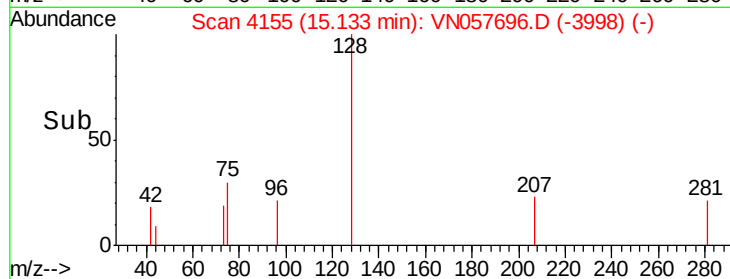
Tgt Ion:128 Resp: 1395

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 9.1 13.7#



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

