

# Anti-Malware Product Test Results Running in Windows 10

as of May 10, 2016

Gathered by Gary Patrick  
for Lexington Computer & Technology Group

Though Windows 10 has been on the market since July 2015, not many of the independent test labs have performed anti-malware product tests using Windows 10 as their test platform.

Those that have done so using Windows 10 are:

Virus Bulletin: [www.virusbtn.com](http://www.virusbtn.com)

AV-comparatives: [www.av-comparatives.org](http://www.av-comparatives.org)

AV-test: [www.av-test.com](http://www.av-test.com)

(although the last two have not run their full suite of tests with Windows 10 yet)

and Pcmag.com, with some testing of its own.

The test slides following are some I showed in our May 4<sup>th</sup> meeting, plus some new ones.

The Virus Bulletin RAP and Performance Slides are taken from the complete report available at: <https://www.virusbulletin.com/testing/results/latest/vb100-antimalware>

Click on the link “Read the full review, or download it.”

This report covers anti-virus for both business (presented first) and then consumer products (the 2<sup>nd</sup> part of report).

The AV-Comparatives Summary of Malware File Detection Tests is at:

[http://www.av-comparatives.org/wp-content/uploads/2016/04/avc\\_fdt\\_201603\\_en.pdf](http://www.av-comparatives.org/wp-content/uploads/2016/04/avc_fdt_201603_en.pdf)

Unfortunately AV-comparatives has not yet run their Real World Test using Windows 10 – we await that.

The AV-test summary chart is at:

[www.av-test.org/en/antivirus/home-windows/windows-10/](http://www.av-test.org/en/antivirus/home-windows/windows-10/)

It covers their ratings of Protection, Performance (i.e. efficiency running on the computer), and Usability.

## Additional Reading:

How to Geek weighs in on Microsoft Windows Defender in Windows 10: <http://www.howtogeek.com/225385/>

PCmag has just published its new evaluation of the free products (May 6, 2016)

<http://www.pcmag.com/article2/0,2817,2388652,00.asp>

It downrates Avira because malicious URL blocking and tracker blocking are not supported in Internet Explorer (but do work in other browsers; also consider that Edge is going to be Microsoft's preferred browser in Windows 10).

# Conclusions:

It would be nice to have two independent results for each kind of test on Anti-malware software; real-world testing, file detection, efficiency, false alarms, etc.

What we have now for Windows 10 is mostly a single report for each kind of test, and not on every best-known product, and not consistently on the free version or paid version.

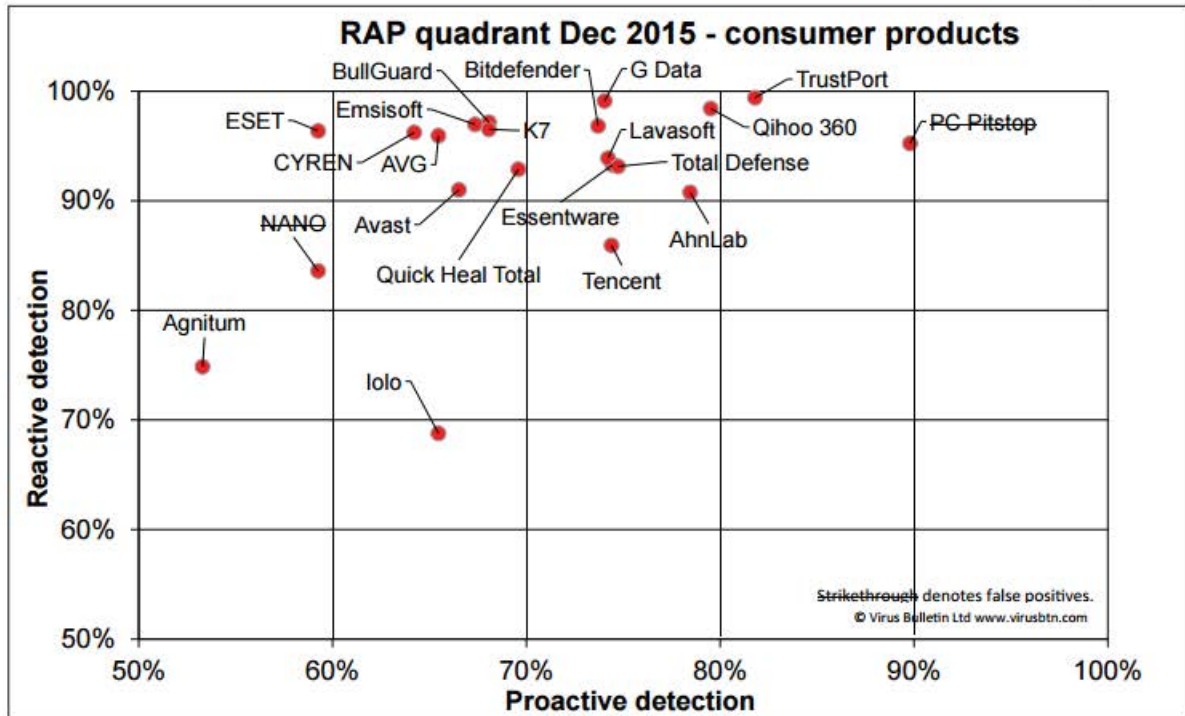
Where there are two tests of a kind sometimes there's a difference of opinion (as in the case of Avira, between PCmag and AV-comparatives!)

1) The best choice of free product is probably Avira, with AVG as second choice.

2) Among the for-pay products, Bullguard, ESET, Kaspersky, and F-Secure have scored slightly better than others.

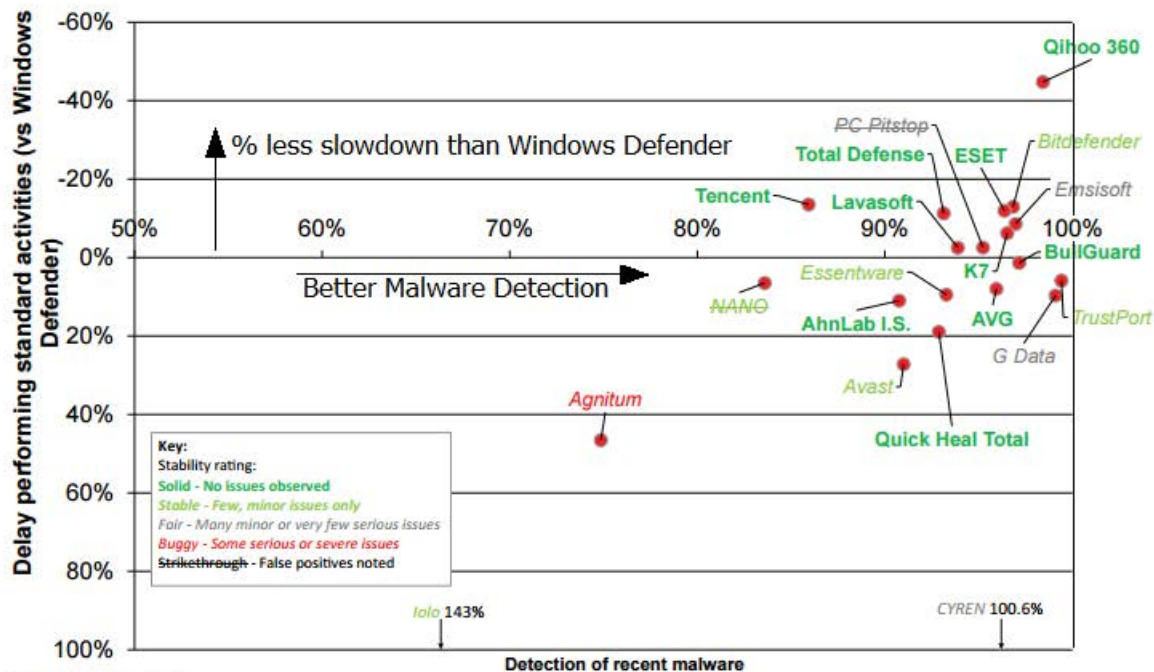
3) Both AV-comparatives and AV-test results show that Microsoft Windows Defender still does not score as highly as the best of the free and for-pay third party products.

# Virus Bulletin Anti-Malware Test Results on Windows 10 Pro Computers:



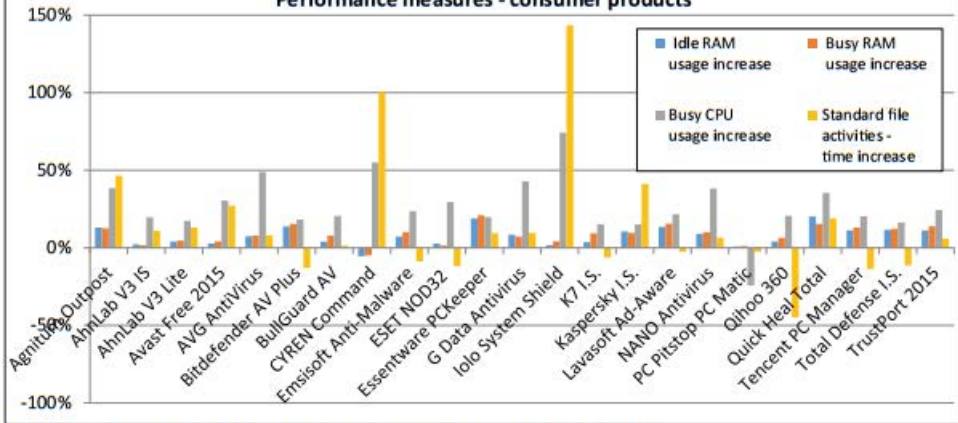
# Virus Bulletin Testing of Anti-Malware Software on Windows 10 p.c.'s

## Detection vs. slowdown - consumer products Dec 2015



# Virus Bulletin VB-100 Testing of Anti-Malware Products in Windows 10 Pro (64-bit)

## Performance measures - consumer products



Note: "Performance Measures" indicate degree of slow-down effect on your computer with each particular product.

*(Please refer to text for full product names.)*



# AV-test Results Chart for Anti-Malware Products Running in Windows 10 (64-bit)

Windows 10

October 2015

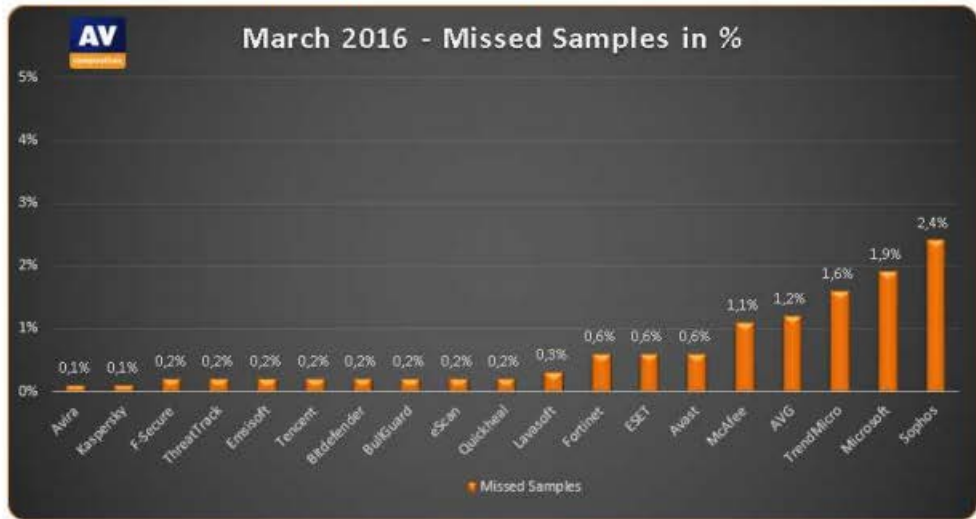
October 2015

Note this is a mix of 2015 and 2016 Products:

Name	Protection	Performance	Usability
<b>AhnLab</b> AhnLab V3 Internet Security 9.0	●●●●●	●●●●●	●●●●● ▶
<b>AVAST</b> Avast Free Antivirus 2015	●●●●●	●●●●●	●●●●● ▶
<b>AVG</b> AVG Internet Security 2015 & 2016	●●●●●	●●●●●	●●●●● ▶
<b>AVIRA</b> Avira Antivirus Pro 2015	●●●●●	●●●●●	●●●●● ▶
<b>Bitdefender</b> Bitdefender Internet Security 2015 & 2016	●●●●●	●●●●●	●●●●● ▶
<b>BullGuard</b> BullGuard Internet Security 15.1	●●●●●	●●●●●	●●●●● ▶
<b>COMODO</b> Comodo Internet Security Premium 8.2	●●●●●	●●●●●	●●●●● ▶
<b>eset</b> ESET Smart Security 8.0 & 9.0	●●●●●	●●●●●	●●●●● ▶
<b>F-Secure</b> F-Secure Internet Security 2015	●●●●●	●●●●●	●●●●● ▶
<b>G DATA</b> G Data InternetSecurity 2015	●●●●●	●●●●●	●●●●● ▶
<b>K7</b> K7 Computing Total Security 15.1	●●●●●	●●●●●	●●●●● ▶
<b>KASPERSKY</b> Kaspersky Lab Internet Security 2016	●●●●●	●●●●●	●●●●● ▶
<b>intel</b> McAfee Internet Security 2015	●●●●●	●●●●●	●●●●● ▶
<b>eScan</b> MicroWorld eScan Internet Security Suite 14.0	●●●●●	●●●●●	●●●●● ▶
<b>Norton</b> Norton Norton Security 2015	●●●●●	●●●●●	●●●●● ▶
<b>panda</b> Panda Security Free Antivirus 16.0	●●●●●	●●●●●	●●●●● ▶
<b>Quick Heal</b> Quick Heal Total Security 16.0	●●●●●	●●●●●	●●●●● ▶
<b>ThreatTrack</b> ThreatTrack VIPRE Internet Security 2015 & 2016	●●●●●	●●●●●	●●●●● ▶
<b>TREND MICRO</b> Trend Micro Internet Security 2016	●●●●●	●●●●●	●●●●● ▶
<b>Microsoft</b> Microsoft Windows Defender 4.8	●●●●●	●●●●●	●●●●● ▶

# AV-comparatives' Malware File Detection Test on Windows 10 (64-bit)

## Graph of missed samples (lower is better)



# AV-comparatives' Testing of Anti-malware Software in Windows 10 (64-bit)

## False positive (false alarm) test

In order to better evaluate the quality of the file detection capabilities (distinguish good files from malicious files) of anti-virus products, we provide a false alarm test. False alarms can sometimes cause as much trouble as a real infection. Please consider the false alarm rate when looking at the detection rates, as a product which is prone to false alarms achieves higher detection rates more easily.

## False Positive Results

Number of false alarms found in our set of clean files (lower is better):

1.	ESET, Trend Micro	0	none/very few FP's
2.	McAfee	1	
3.	BullGuard, eScan, Sophos	2	
4.	Bitdefender, Emsisoft, Kaspersky Lab, ThreatTrack	3	
5.	F-Secure, Lavasoft, Tencent	4	few FP's
6.	Quick Heal	8	
7.	AVIRA	9	
8.	AVG	10	
9.	Fortinet, Microsoft	13	many FP's
10.	Avast	17	

Details about the discovered false alarms (including their assumed prevalence) can be seen in a separate report available at: [http://www.av-comparatives.org/wp-content/uploads/2016/04/avc\\_fps\\_201603\\_en.pdf](http://www.av-comparatives.org/wp-content/uploads/2016/04/avc_fps_201603_en.pdf)

---