

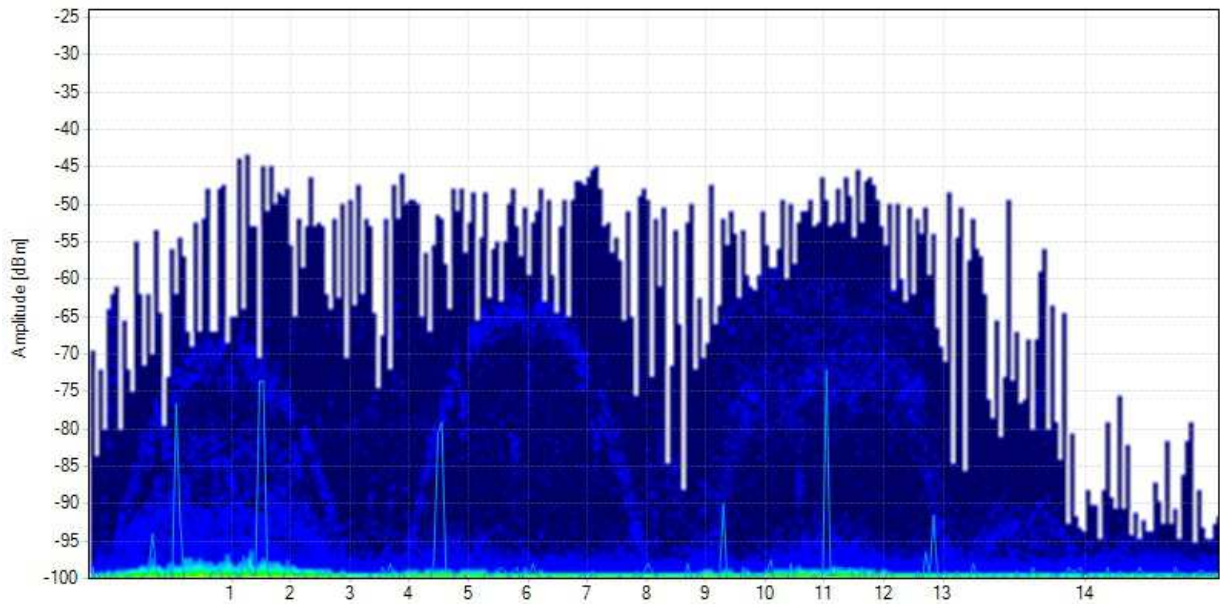
WiFi Site Survey



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Date: **27/02/2017 14:18:08**

Density Graph



The **Density View** maps and displays what is currently happening in the spectrum, so you can identify devices, see how loud they are, and see how often they are transmitting.

With **Color by Utilization** enabled, the height of the graph shows how loud devices are (amplitude), and the intensity of the color shows how often signals are occurring. The more intense the color, the more often the frequency is in use. This is called **utilization**, which is similar to **duty cycle** and **airtime usage**. For example, if a frequency has 40 percent utilization, it is only free for use by other transmitters for 60 percent of the time.

A blue spike or shape indicates a short signal, like a clap. A red spike or shape indicates a long, continuous signal, like an air horn.

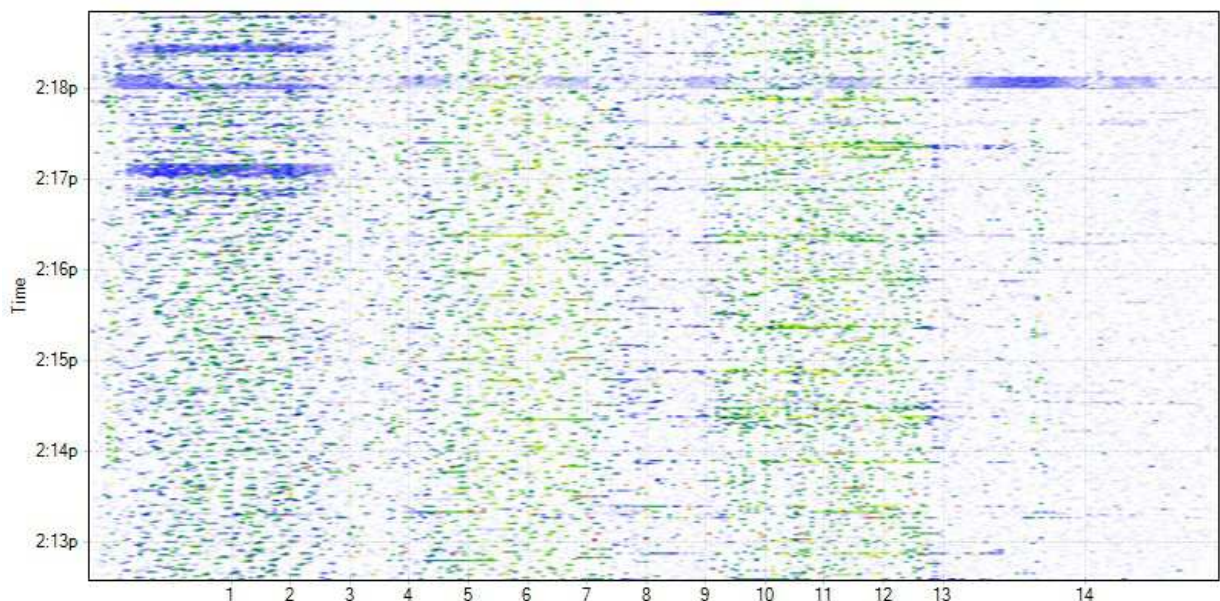
Blue - Less than 10 percent utilization

Green - 20 percent utilization

Yellow - 40 percent utilization

Red - Over 50 percent utilization

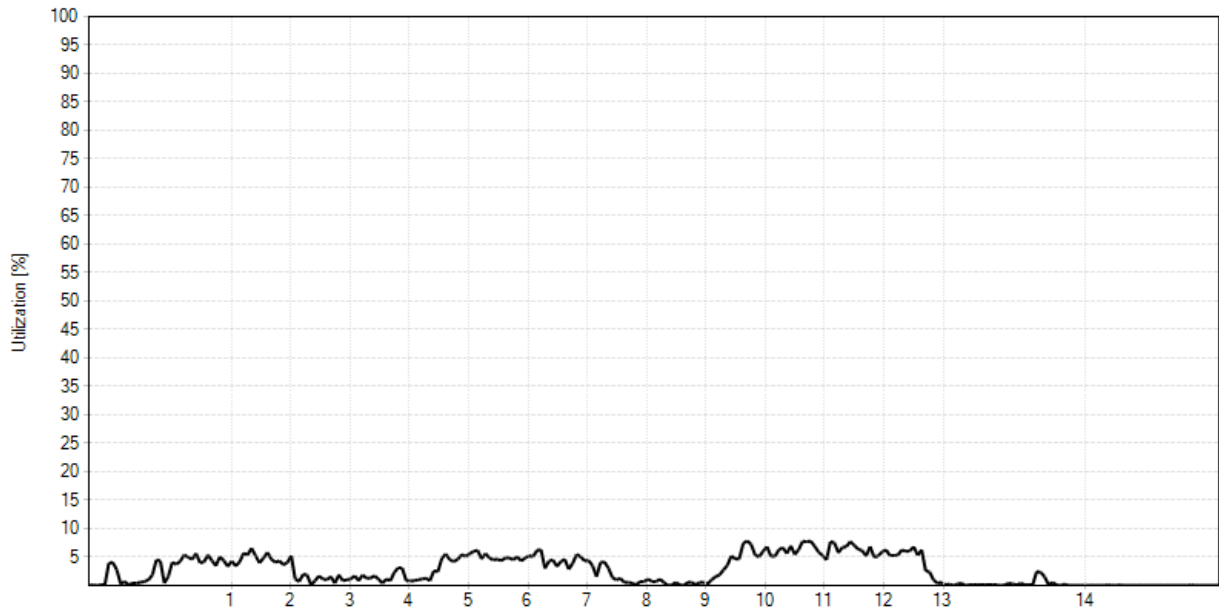
Waterfall Graph



The **Waterfall View** graphs amplitude over time for all frequencies in the selected band, much like a seismometer graphs earthquakes. This view is useful for watching the spectrum over time.

Unlike the Density View which uses **Color by Utilization**, the intensity of the color in the Waterfall View indicates amplitude. Blue indicates low-amplitude signals, while red indicates high-amplitude signals.

Utilization Graph



Utilization measures the percentage of activity above a defined amplitude threshold. Utilization is similar to **airtime usage** and **duty cycle**. The Utilization Graph gives more exact representations of utilization in the spectrum than the Density View's approximations.

Networks Table

ESSID	AP Alias	Channels	Signal Strength (dBm)	BSSID Count	Security	Max Rate (Mbps)	Vendors	802.11
BRISP		11, 40*	-50.0	2	WPA2-Personal	300.0	AVMGrmbH	b, g, n
Ziggo2AF7BE4		6, 112*	-54.0	2	WPA2-Personal	1300.0	Compal Broadband Networks, Inc.	b, g, n, ac
BRISP Gastennetwerk		11	-64.0	1	WPA2-Personal	130.0		b, g, n
VG/7519C4445F		1	-75.0	1	WPA2-Personal	144.4	Arcadyan Technology Corporation	b, g, n
Heinkens		1	-76.0	1	WPA2-Personal	144.4	Netgear	b, g, n
H868N90248E		5	-82.0	1	WPA2-Personal	130.0	zte corporation	b, g, n
KFN Fon		1, 5	-84.0	2	Open	144.4	, Arcadyan Technology Corporation	b, g, n
Ziggo5CCF0		11	-88.0	1	WPA2-Personal	144.4	Hon Hai Precision Ind. Co.,Ltd.	b, g, n
Ziggo		1, 7, 11	-88.0	5	WPA2-Enterprise	144.4		b, g, n
H869A8ABEB4		3	-89.0	1	WPA2-Personal	216.7	zte corporation	b, g, n
Ziggo53155		1	-89.0	1	WPA2-Personal	144.4	Technicolor CH USA Inc.	b, g, n
VG/75195B0D52		1	-90.0	1	WPA2-Personal	144.4	Arcadyan Technology Corporation	b, g, n
cema		1	-92.0	1	WPA2-Personal	144.4	DrayTek Corp.	b, g, n
UPC243787829		1	-93.0	1	WPA2-Personal	144.4	SAMSUNG ELECTRO-MECHANICS(THAILAND)	b, g, n
Wasserstrasse		7	-94.0	1	WPA2-Personal	144.4	Technicolor CH USA Inc.	b, g, n
Florol		8	-94.0	1	WPA2-Personal	144.4	AVMAudiovisuelles Marketing und Computersysteme GmbH	b, g, n
CoreDoctor		11*	-95.0	1	WPA2-Personal	300.0	DrayTek Corp.	b, g, n
Ziggo15777		11	-95.0	1	WPA2-Personal	144.4	Technicolor CH USA Inc.	b, g, n
		8	-95.0	1	Open	72.2		b, g, n
Ziggo49FA56F		6	-95.0	1	WPA2-Personal	144.4	Compal Broadband Networks, Inc.	b, g, n
Ziggo06162		11	-95.0	1	WPA2-Personal	144.4	PEGATRON CORPORATION	b, g, n

The Networks Table displays a snapshot of Wi-Fi access points that were visible from the computer's Wi-Fi card during the selected time period.

Channels Table

Channel	Grade	Utilization	Average (dBm)	Current (dBm)	Max (dBm)	Noise Floor (dBm)	Access Points
1	92.9	2.9%	-78.0	-85.0	-52.0	-98.5	8

2	93.4	2.9%	-77.0	-84.5	-51.0	-98.5	0
3	94.0	2.9%	-77.0	-90.0	-50.5	-99.0	1
4	93.8	2.9%	-77.0	-75.5	-52.0	-99.0	0
5	92.7	3.4%	-76.0	-75.5	-51.0	-99.0	2
6	92.4	3.4%	-75.5	-64.0	-51.0	-99.0	2
7	93.6	3.0%	-76.0	-64.0	-51.0	-99.0	2
8	94.0	3.0%	-76.5	-63.0	-51.5	-99.0	2
9	93.2	3.5%	-76.5	-63.0	-51.5	-98.5	0
10	91.4	4.3%	-76.0	-63.0	-51.5	-98.5	0
11	90.1	4.9%	-76.0	-68.5	-52.0	-98.5	9
12	91.7	4.2%	-76.5	-83.0	-52.0	-98.5	0
13	94.6	2.9%	-78.0	-83.0	-53.0	-99.0	0
14	99.6	0.2%	-89.0	-83.0	-61.5	-100.0	0

The **Channels Table** grades each Wi-Fi channel based on the RF activity within the defined time span. This table is useful for making channel deployment decisions, because it considers all activity in each channel, and gives each one a relative grade of usability.