OHD/Cirrus Research CK:112A & CK:112AIS doseBadge Training Guide

First you will need to download the software.

If you do not have the software, go to www.cirrusresearch.co.uk.

- **On the left menu under "Products" click "Software & Updates".**
- **Scroll to the bottom of the page where it says "Software downloads".**
- **The item you want to download is dBLink3.**
- **Ensure the Reader Unit is not connected to the PC.**
- **It is recommended that you accept the default settings.**
- **You must restart your computer before opening the software**

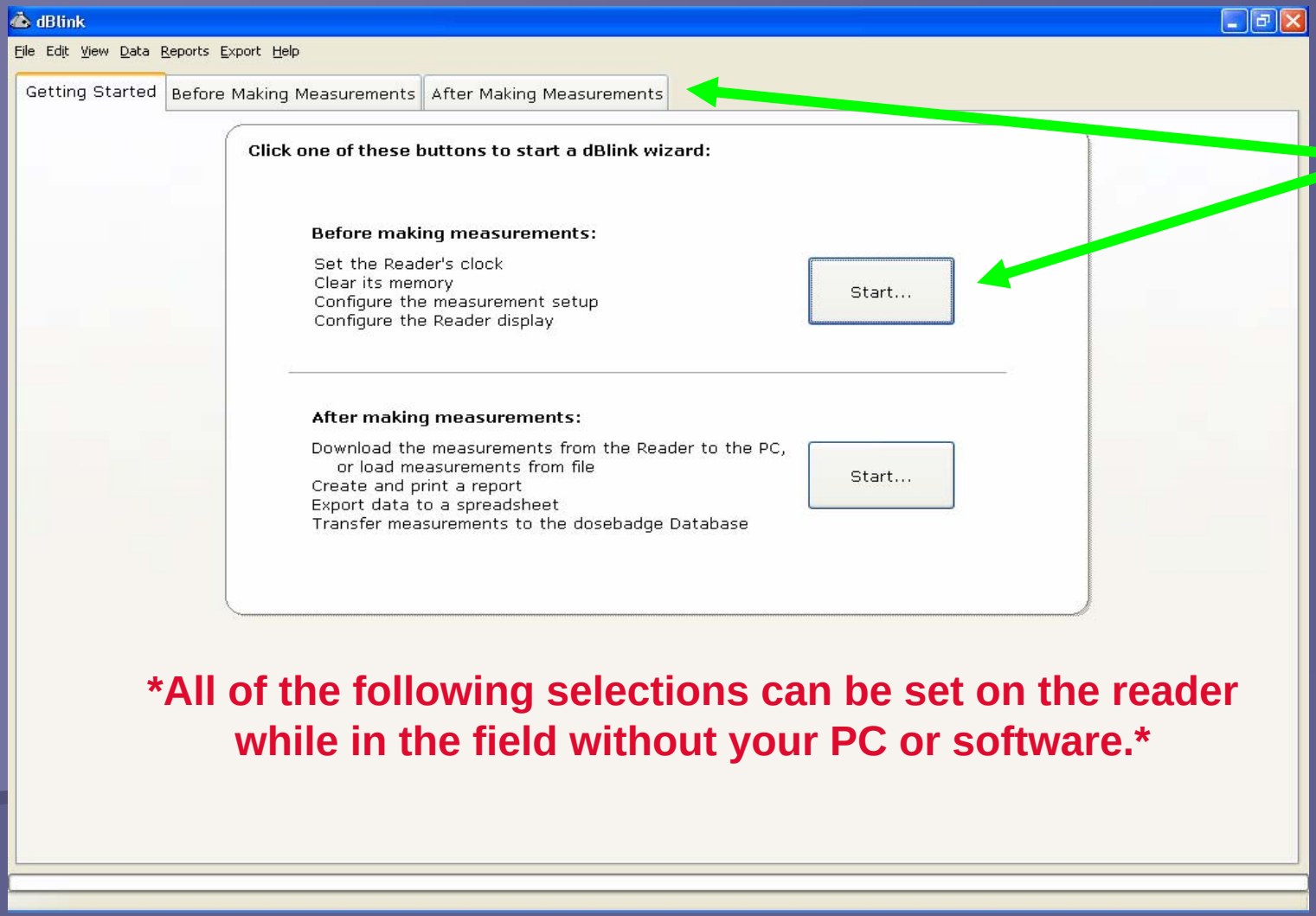
Note: All versions of Windows from 98SE through Vista are supported by dBlink 3 version 3.1.1 Build 3 and later.

Connect the USB cable to your computer and the reader. The dBlink3 software should open and the reader should turn on. You are now ready to begin.

Plug this end of the USB cable into your PC.

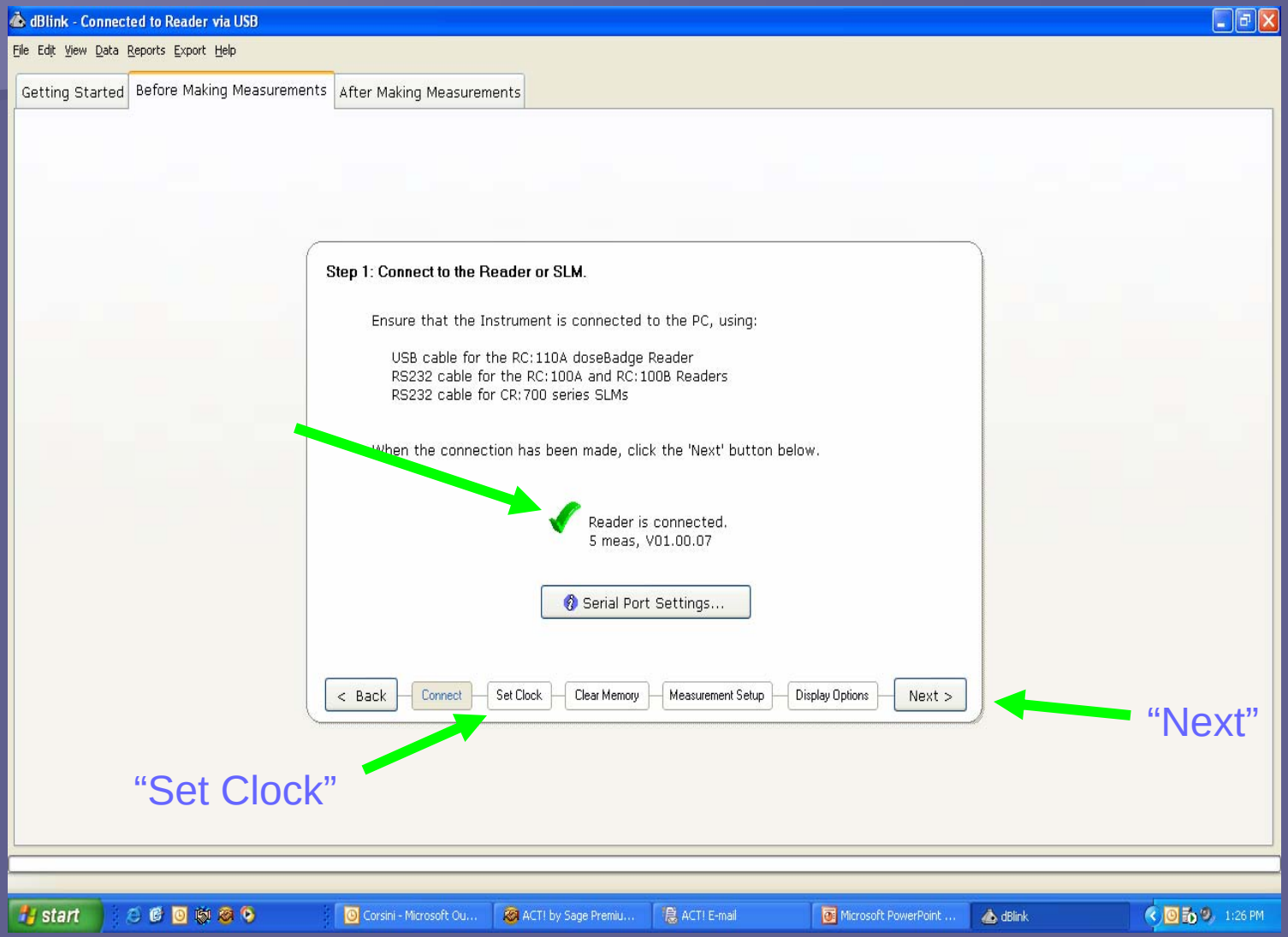
Reader Setup

Click the “Start” button
under “Before making measurement” window or click the tab.

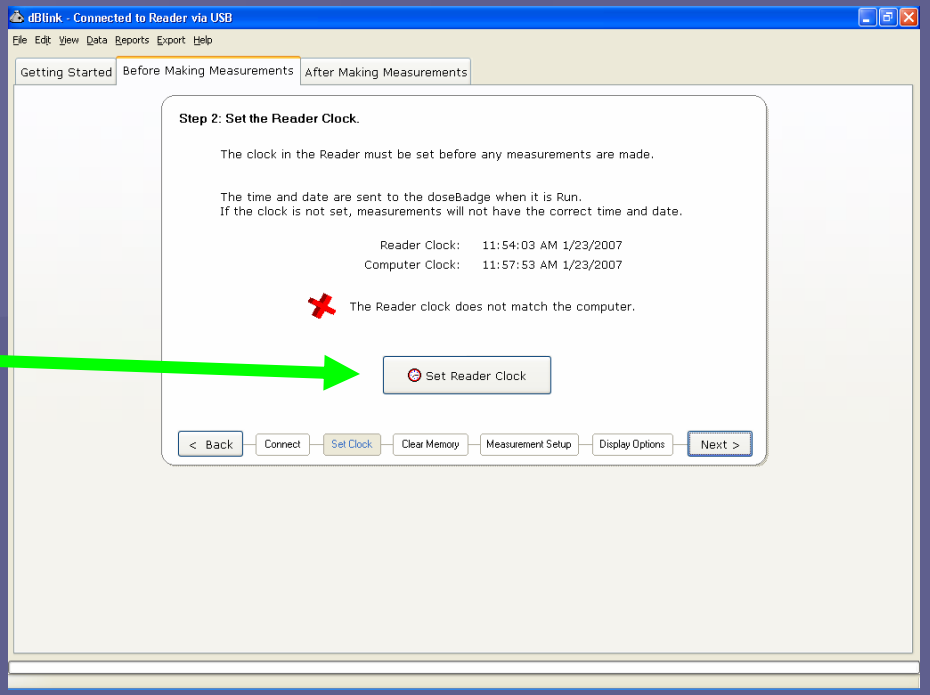


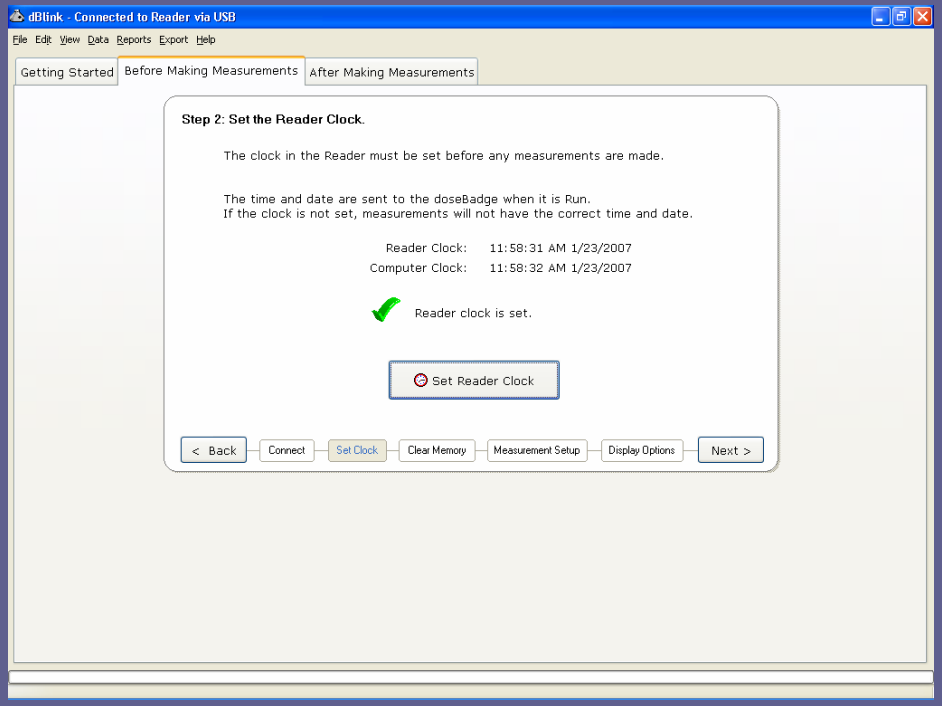
All of the following selections can be set on the reader while in the field without your PC or software.

You should see the green check mark indicating the reader is connected to the software. Click “Next” or “Set Clock” to continue the reader setup.



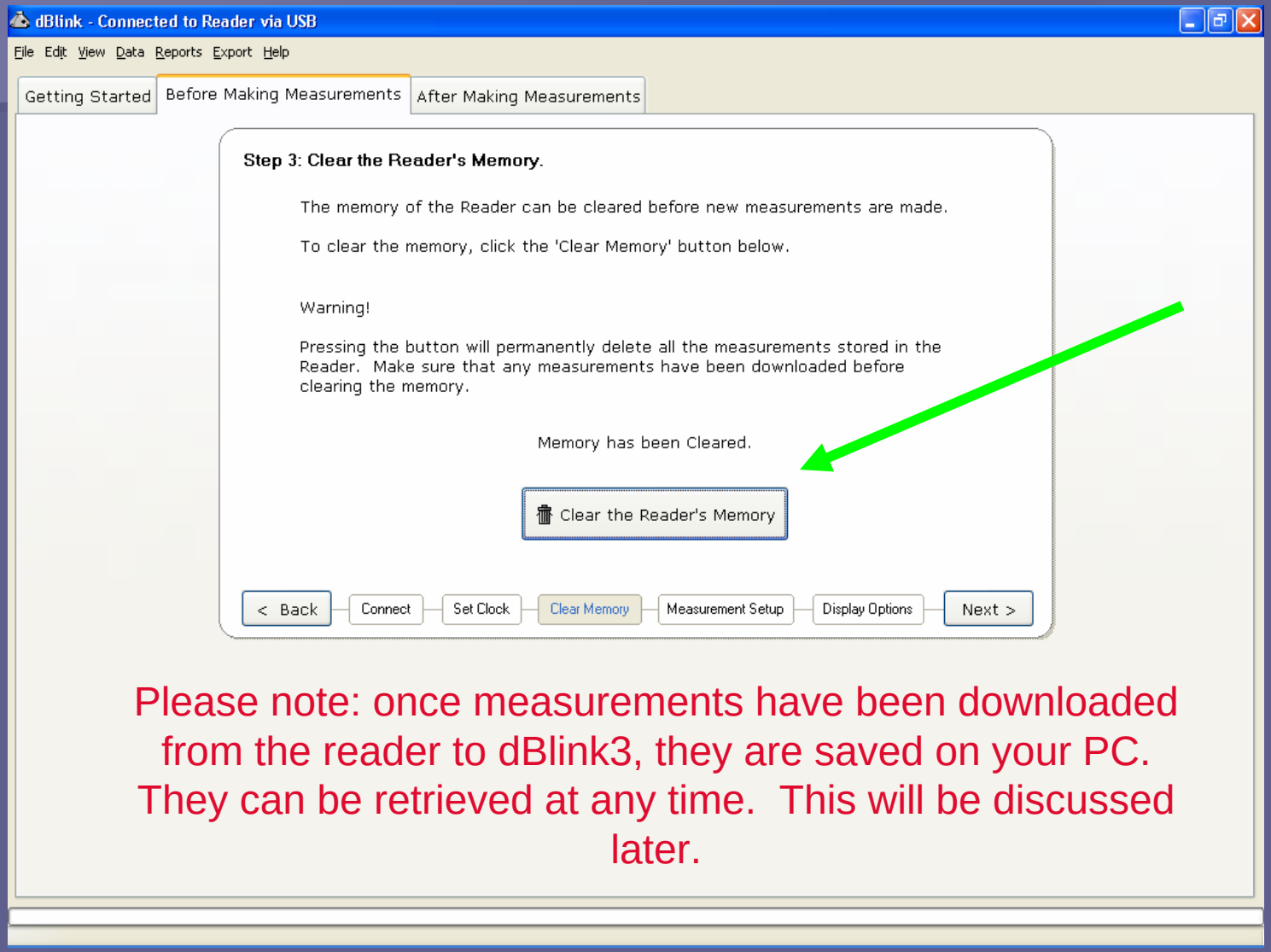
The reader clock can now be set to the computer clock so it will record the correct time and date on your measurements. Click “Set Reader Clock” to do this.





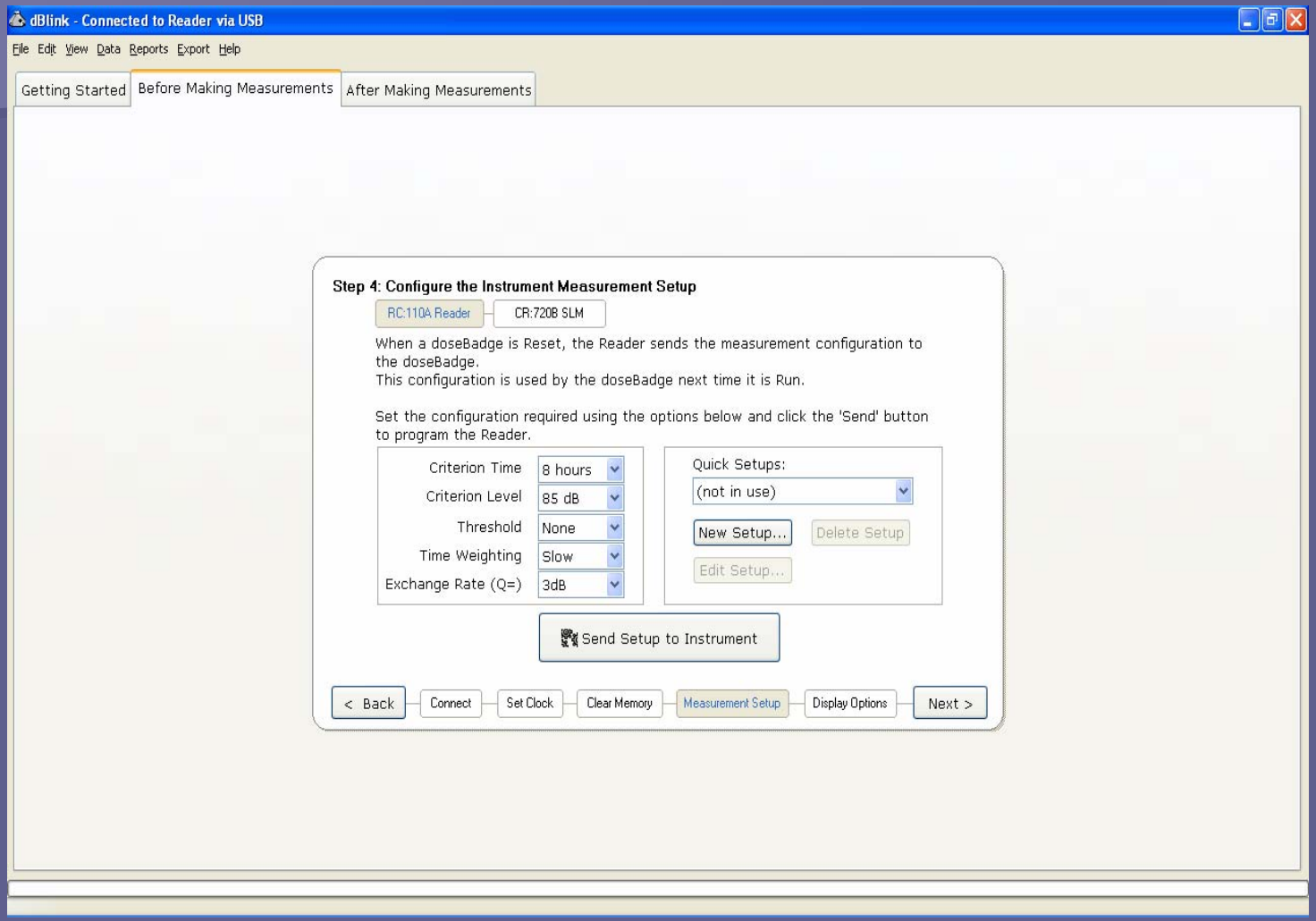
Once you see the green check mark you can click “Next” or “Clear Memory” to continue.

You can clear the memory of the doseBadge reader before you take another reading. However, this will permanently delete any measurements that are stored in your reader. If you do not want to clear the memory, just click “Next” or “Measurement Setup”.

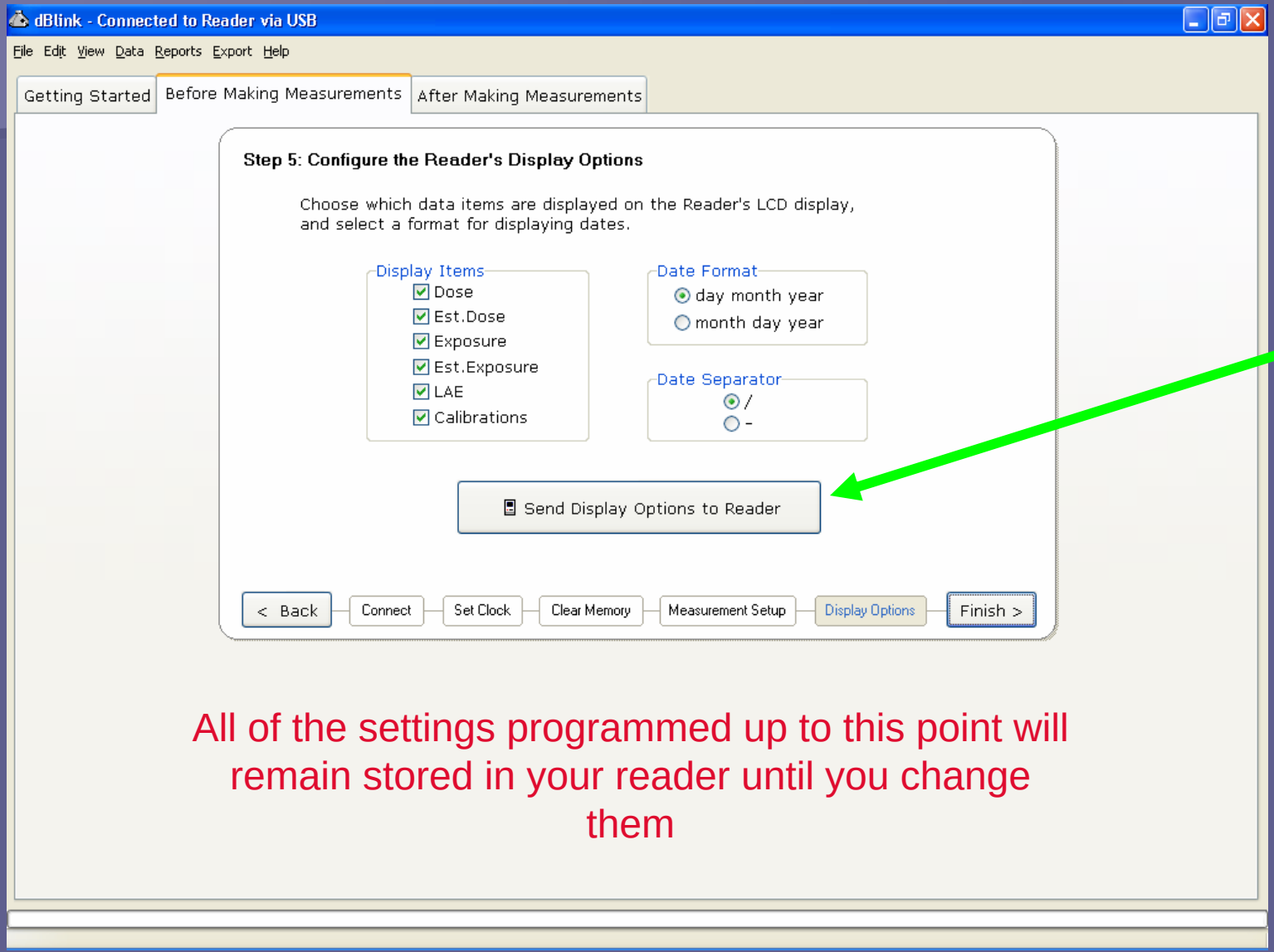


Please note: once measurements have been downloaded from the reader to dBlink3, they are saved on your PC. They can be retrieved at any time. This will be discussed later.

The ‘Measurement Setup’ screen is not applicable to the CR:112A doseBadge series. The measurement parameters are pre-set.



Next you have the option to configure the reader display. If you do not need to, then you can disconnect the reader and begin your testing.



Make sure you click this button to send your selections to the reader

All of the settings programmed up to this point will remain stored in your reader until you change them

doseBadge Setup and Operation

Insert the doseBadge into the calibration cavity located at end of the reader.

Now you will follow the “V” pattern on your reader and this will guide you through the process to begin taking your measurements.

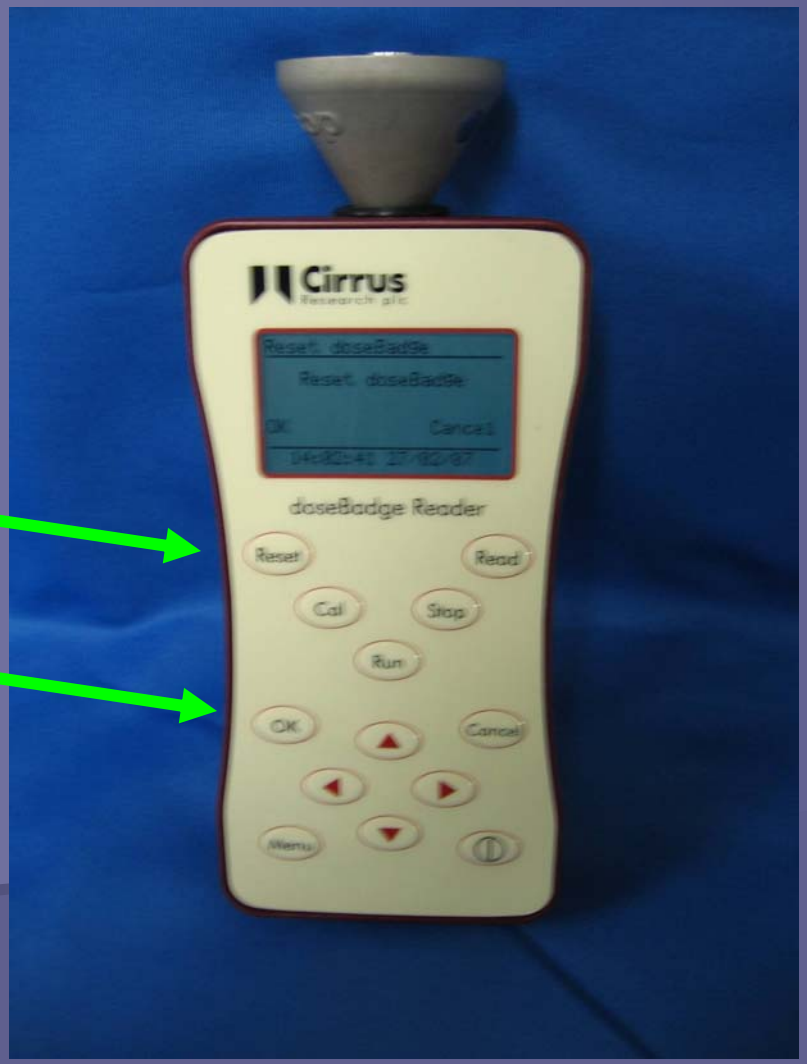
The “V” buttons command and operate the doseBadge

Operational buttons are used for programming the reader and for viewing the measurements stored in the reader

To begin, press the “Reset" button then “OK” to confirm. This clears the doseBadge memory. It also provides the date/time stamp to the doseBadge for the next measurement.

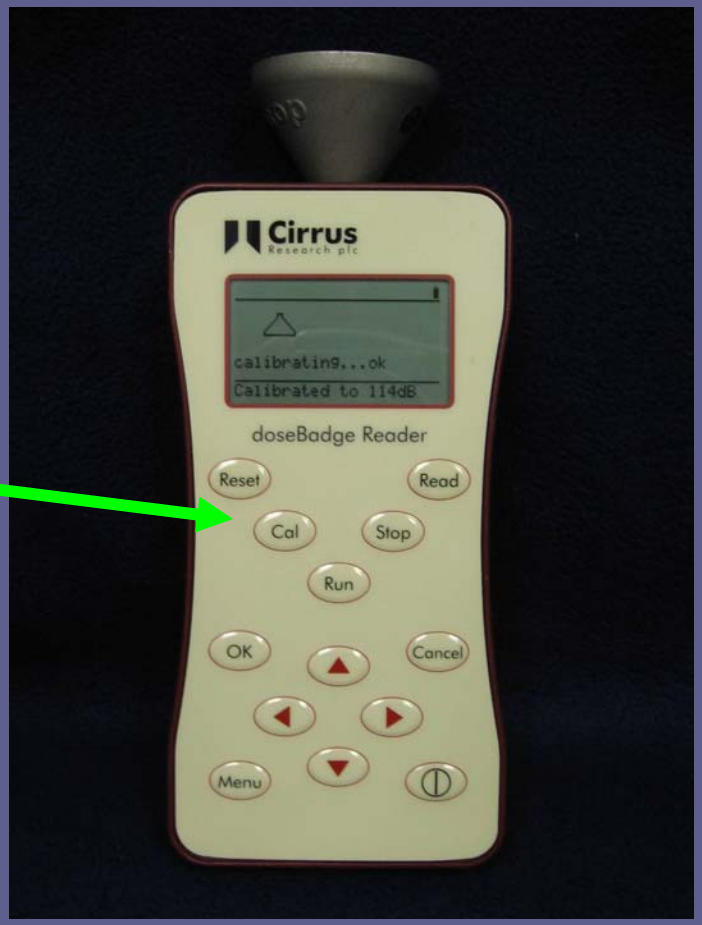
Reset

OK

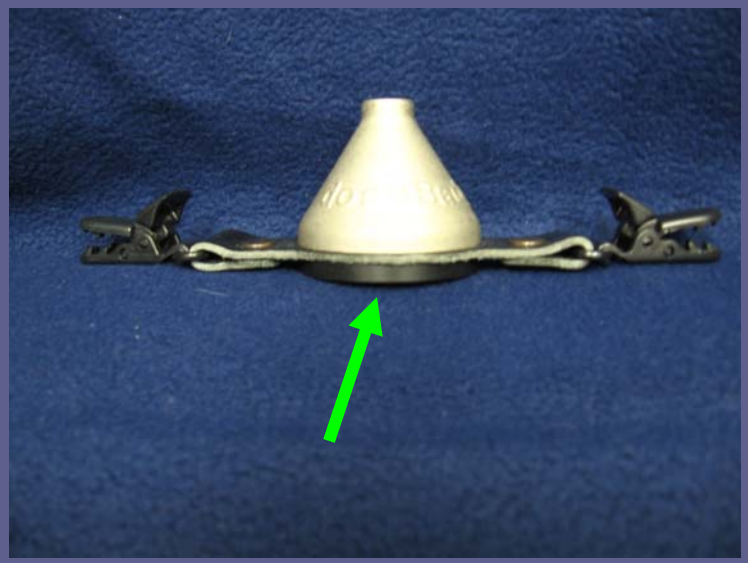


Continuing with the “V” pattern, press the “Cal” button. This will take about 10 seconds. It will say “Calibrating...ok” when finished. The doseBadge will be calibrated to 114dB. You should always pre-calibrate and post calibrate. This will give you a validation reference to the accuracy for your measurement.

CAL



Attach the doseBadge to the mounting strap using the plastic disk. The doseBadge may now be attached to the test subject.

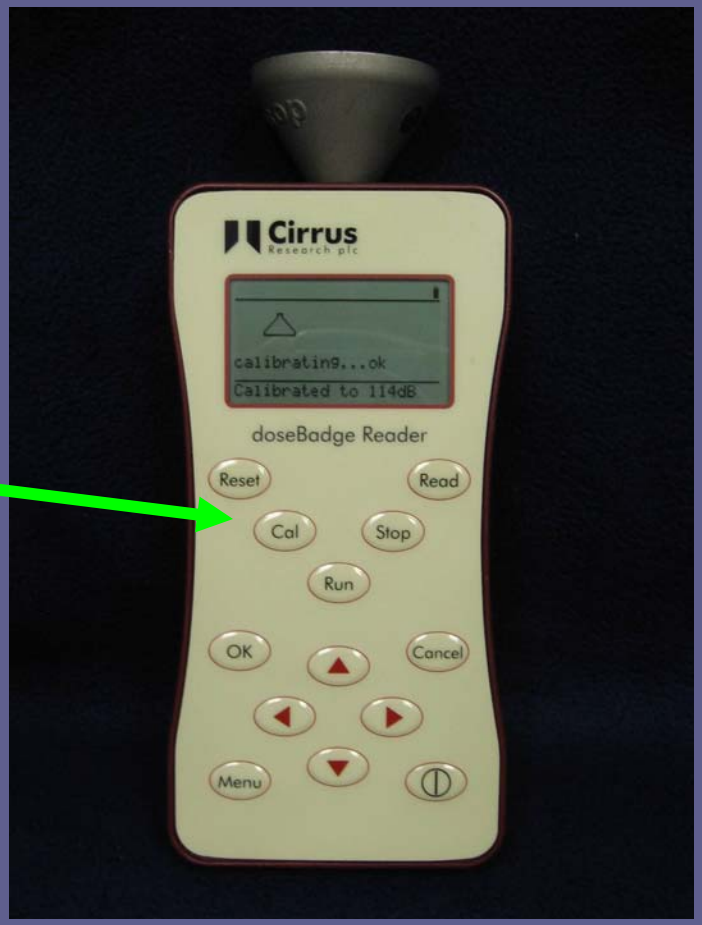


To start a measurement point either the reader or keyfob toward the doseBadge window and press “Run”. The light inside the doseBadge window should flash blue. The doseBadge is now running. It will continue to run until it is stopped by the reader or keyfob. There are no controls on the doseBadge, therefore the test subject cannot tamper with it. The doseBadge is capable of testing at least two eight hour shifts before needing to be recharged. When you are ready to stop the measurement, simply point the reader or keyfob at the doseBadge window and press “Stop”

(Optional Keyfob)

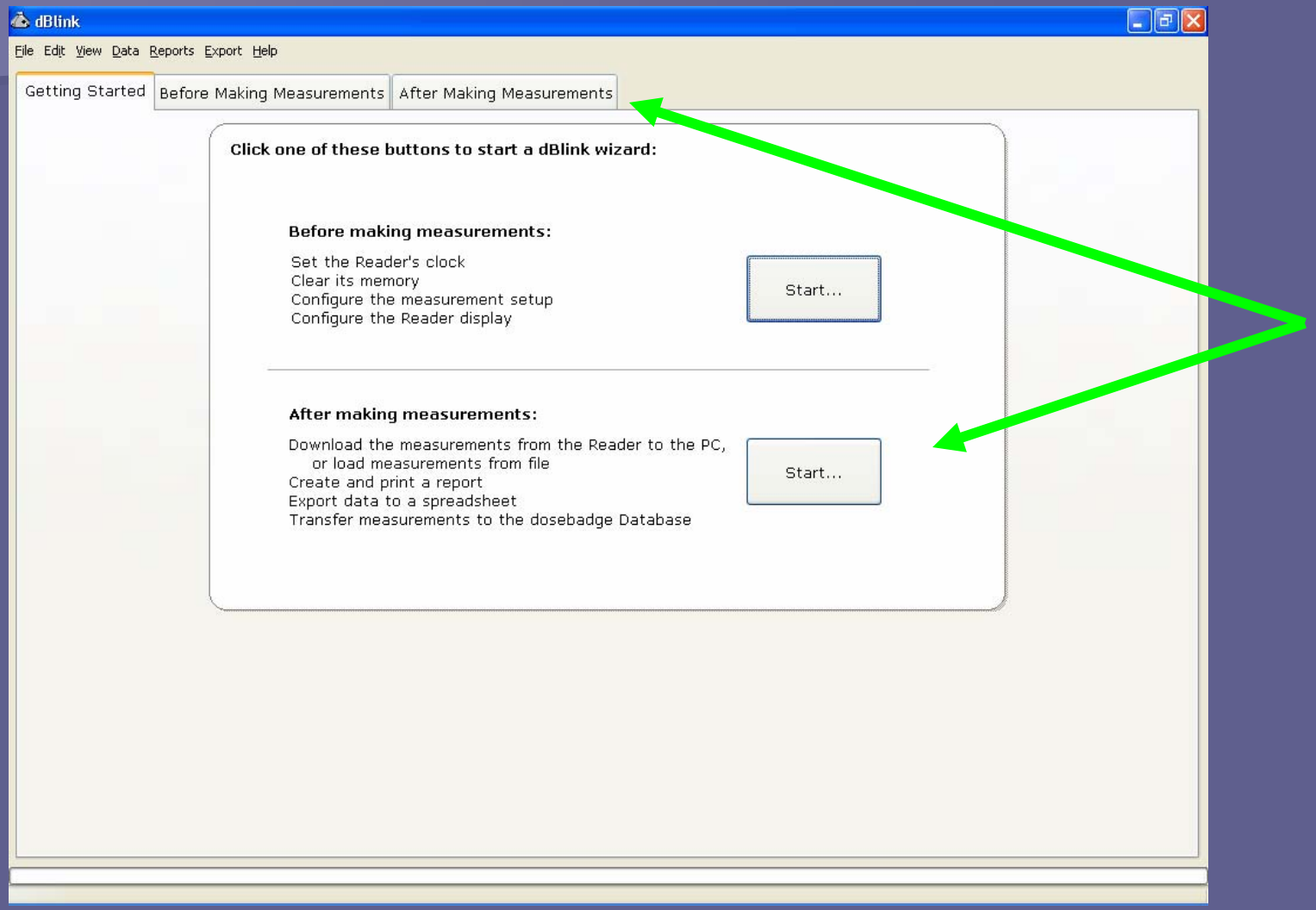
You are now ready to post calibrate the doseBadge and download your data from the doseBadge to the reader. Connect the doseBadge to the reader (align the windows) and press “Calibrate”. After the post calibration is complete press the “Read” button. The measurement can now be viewed via the reader display or the dBlink3 software.

CAL



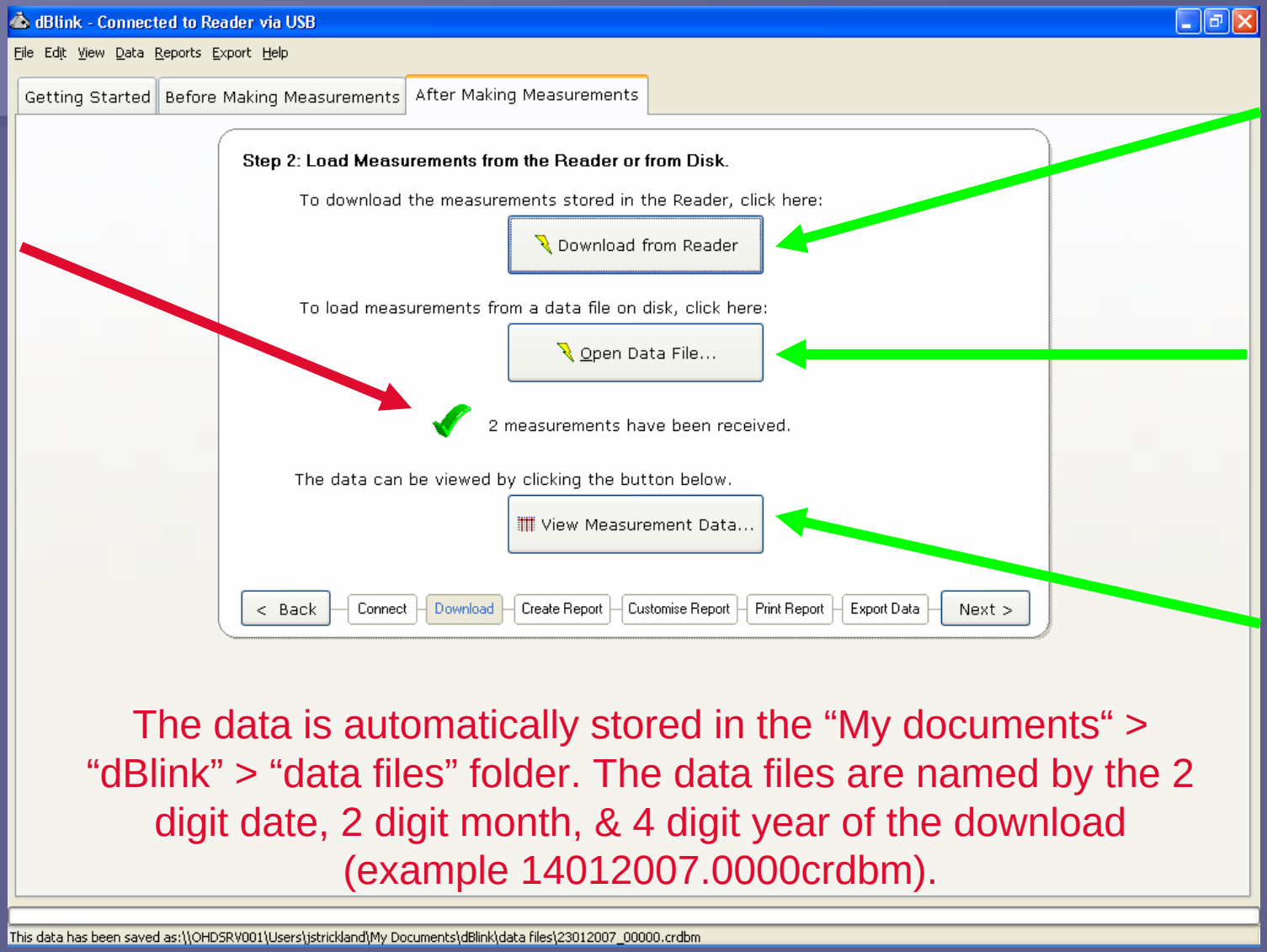
Data Download and Reporting

To download the data from the reader into the software reconnect the reader to the PC. Click the “Start” under “After making measurement” window or the tab up top.



Click to download the measurements stored in the reader.
This data file is saved automatically.

You will see a check mark when your data has been down-loaded or opened.



Download your data from the reader

Load files from PC

Allows either download or opened files to be viewed

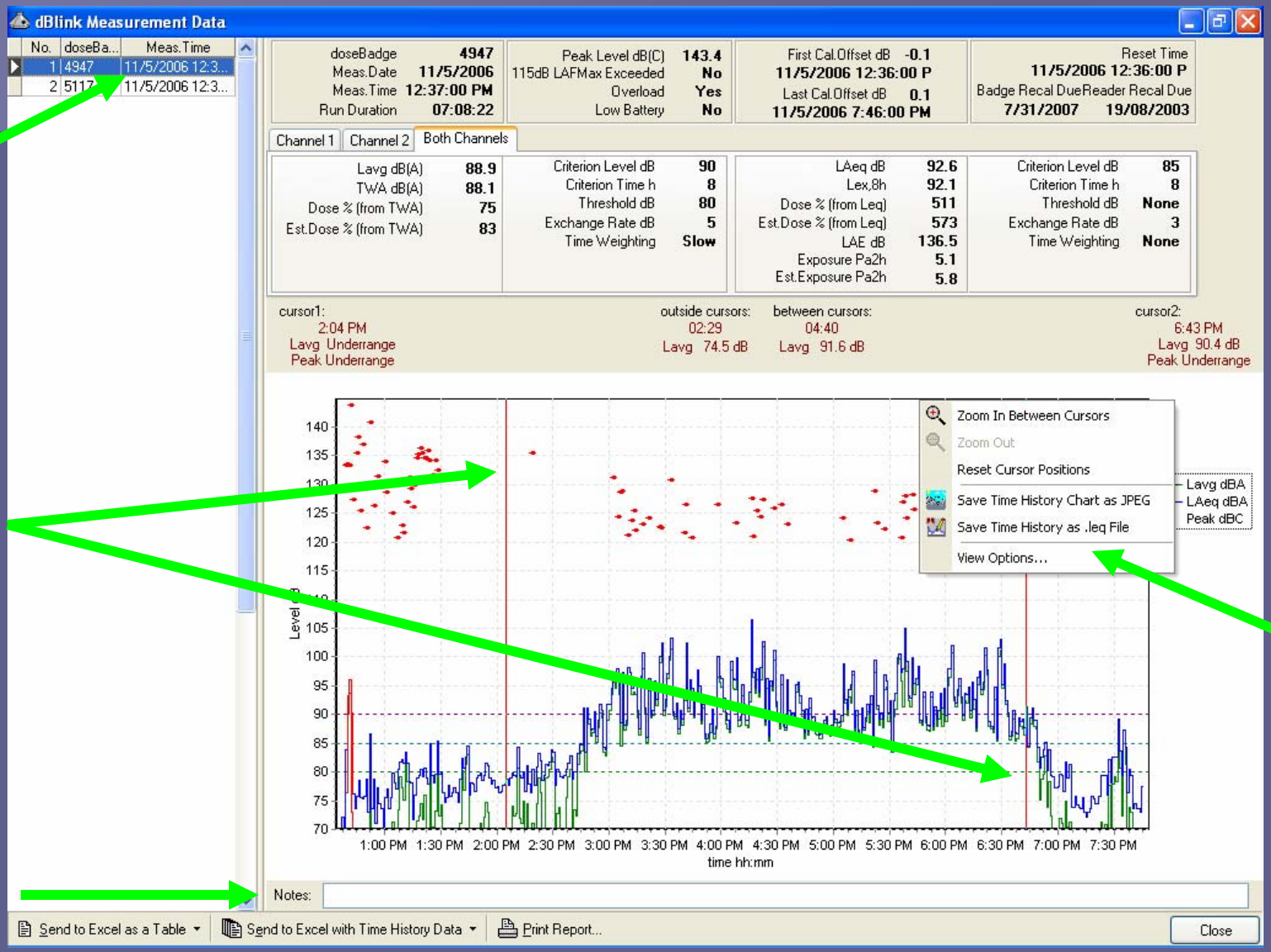
The data is automatically stored in the “My documents“ > “dBlink” > “data files” folder. The data files are named by the 2 digit date, 2 digit month, & 4 digit year of the download (example 14012007.0000crdbm).

You can also view your data

Right click for more options.

The red cursors can be moved to focus in on specific time periods.

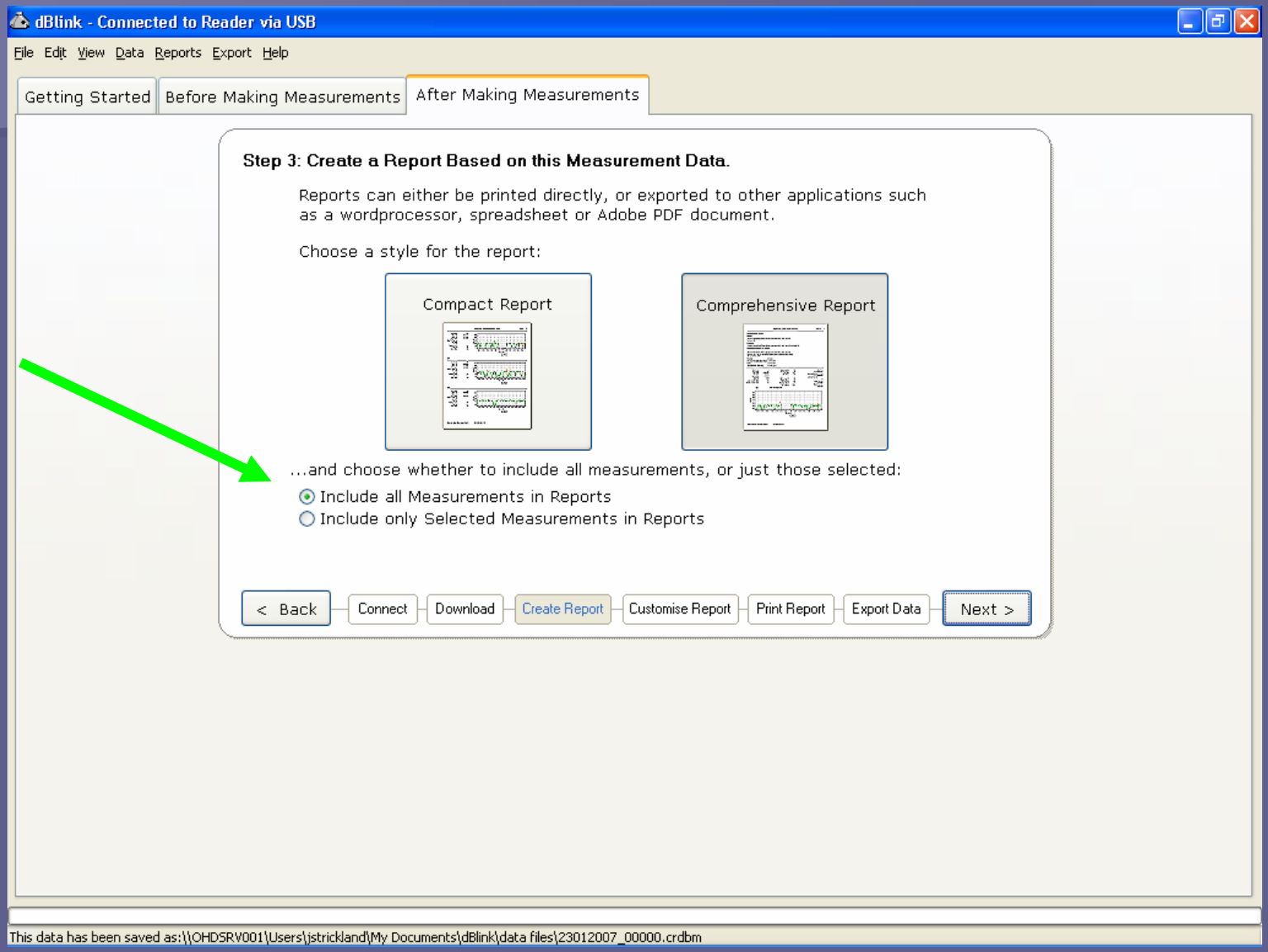
Notes specific to an individual measure ment.



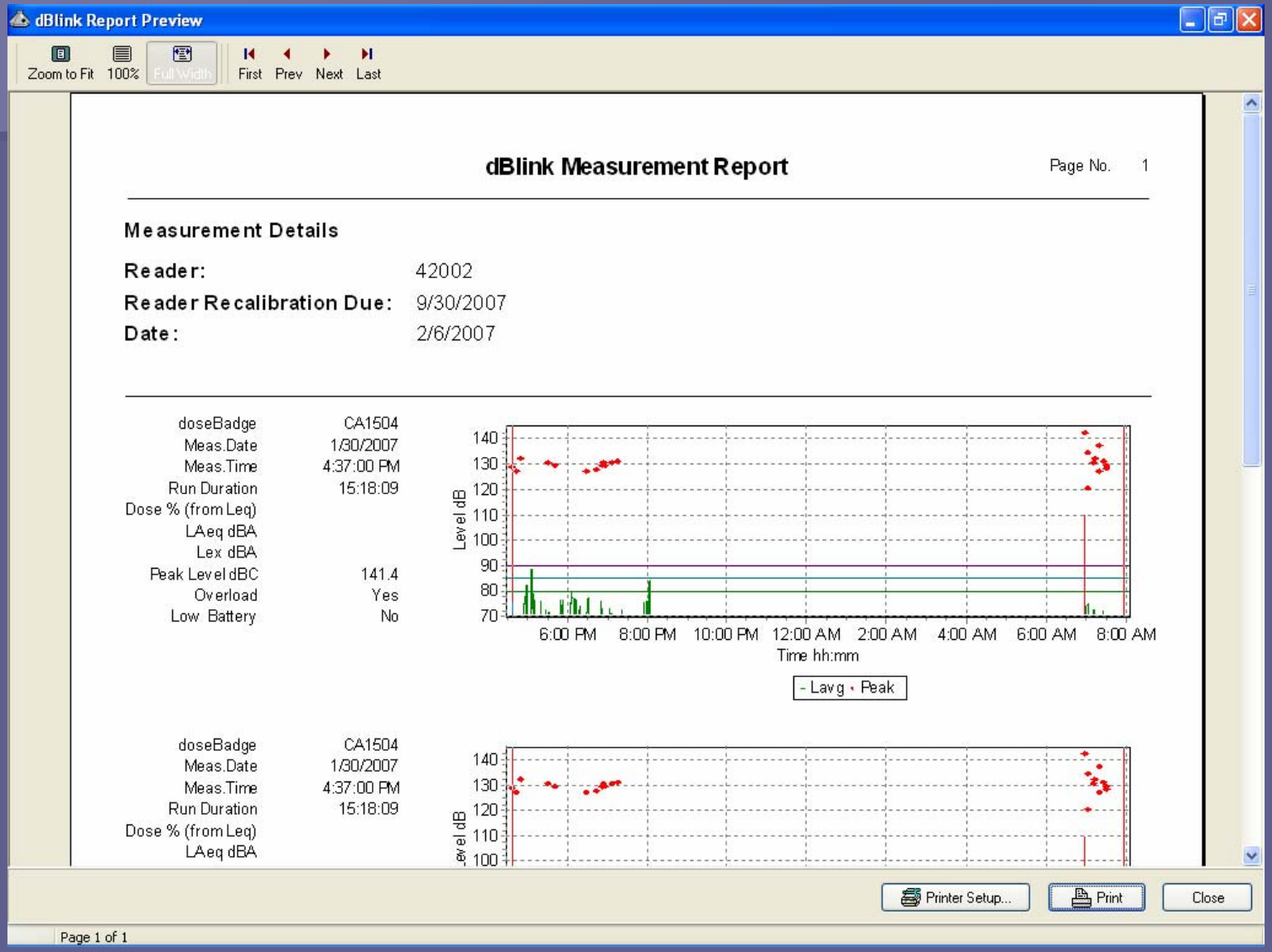
You can right click anywhere in the Time History graph for more options. Click “View Options” for more.

You can choose from two different types of reports: Compact Report or Comprehensive Report. A Compact Report will included multiple measurements on one page. A Comprehensive Report includes only one measurement per page.

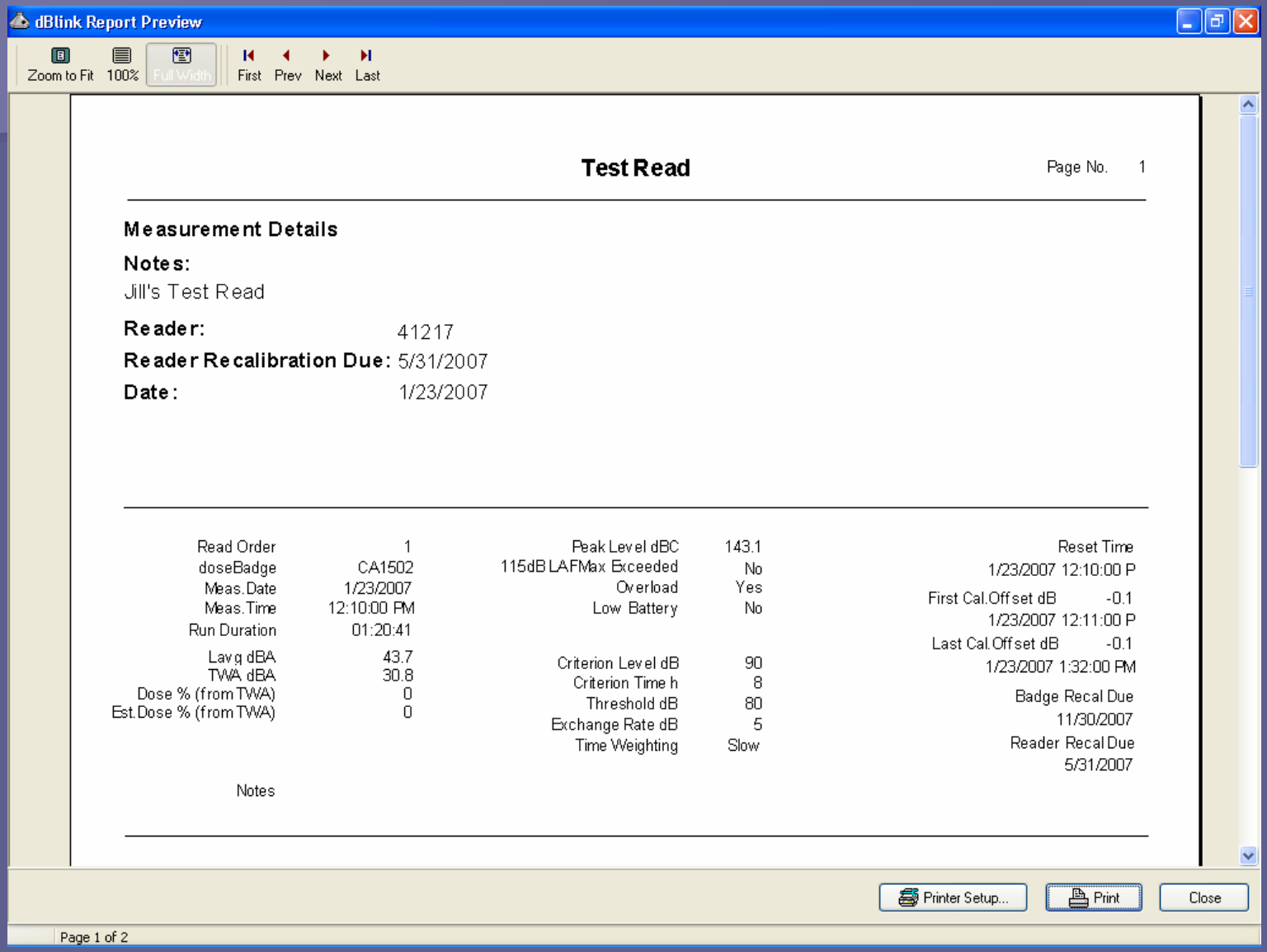
You can choose to include all measure ments or only those selected.



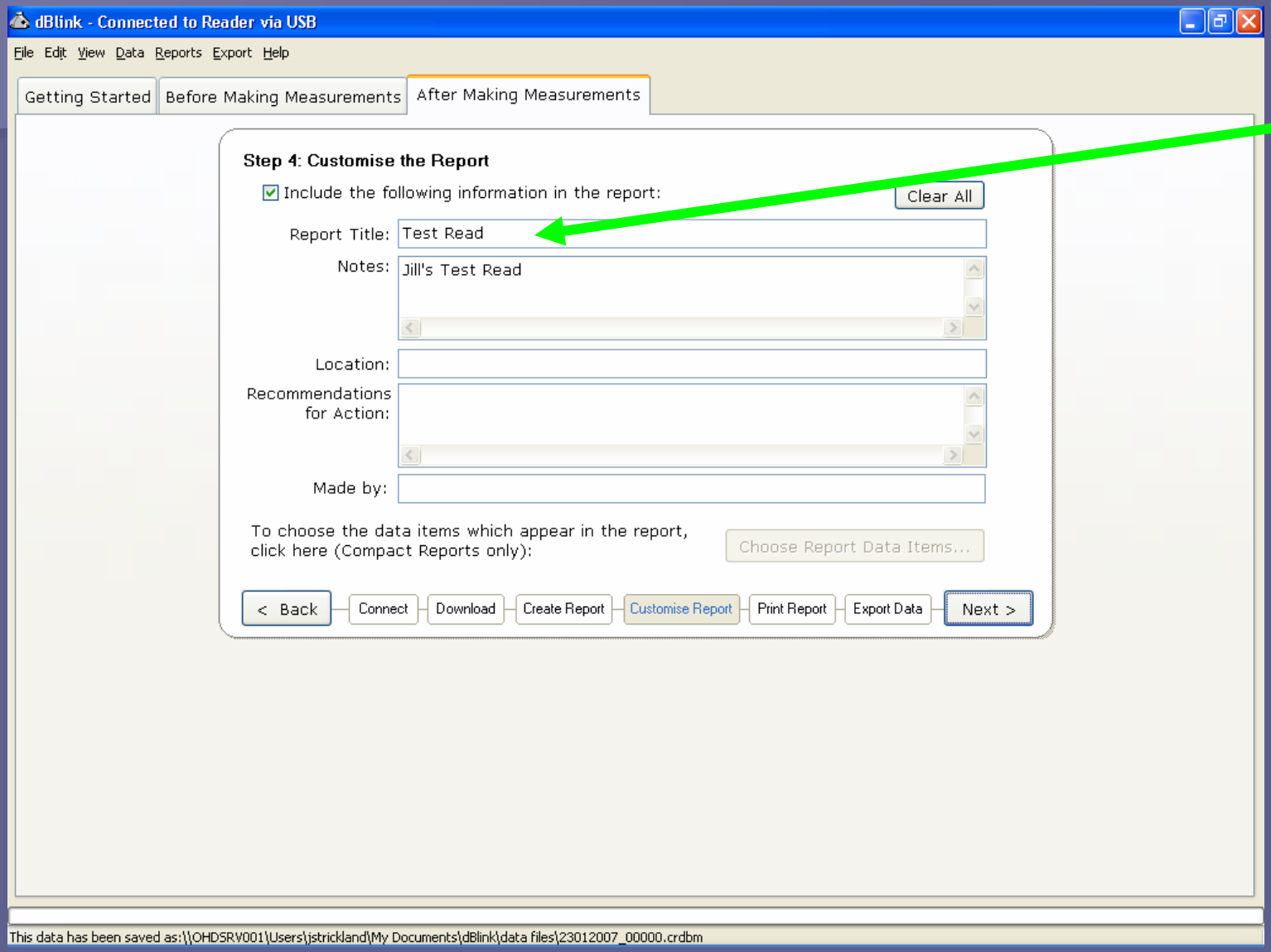
This is a preview of a compact report.
A compact report shows multiple measurements on 1 page.



This is a preview of a comprehensive report.
A comprehensive report shows a each measurement on individual pages.

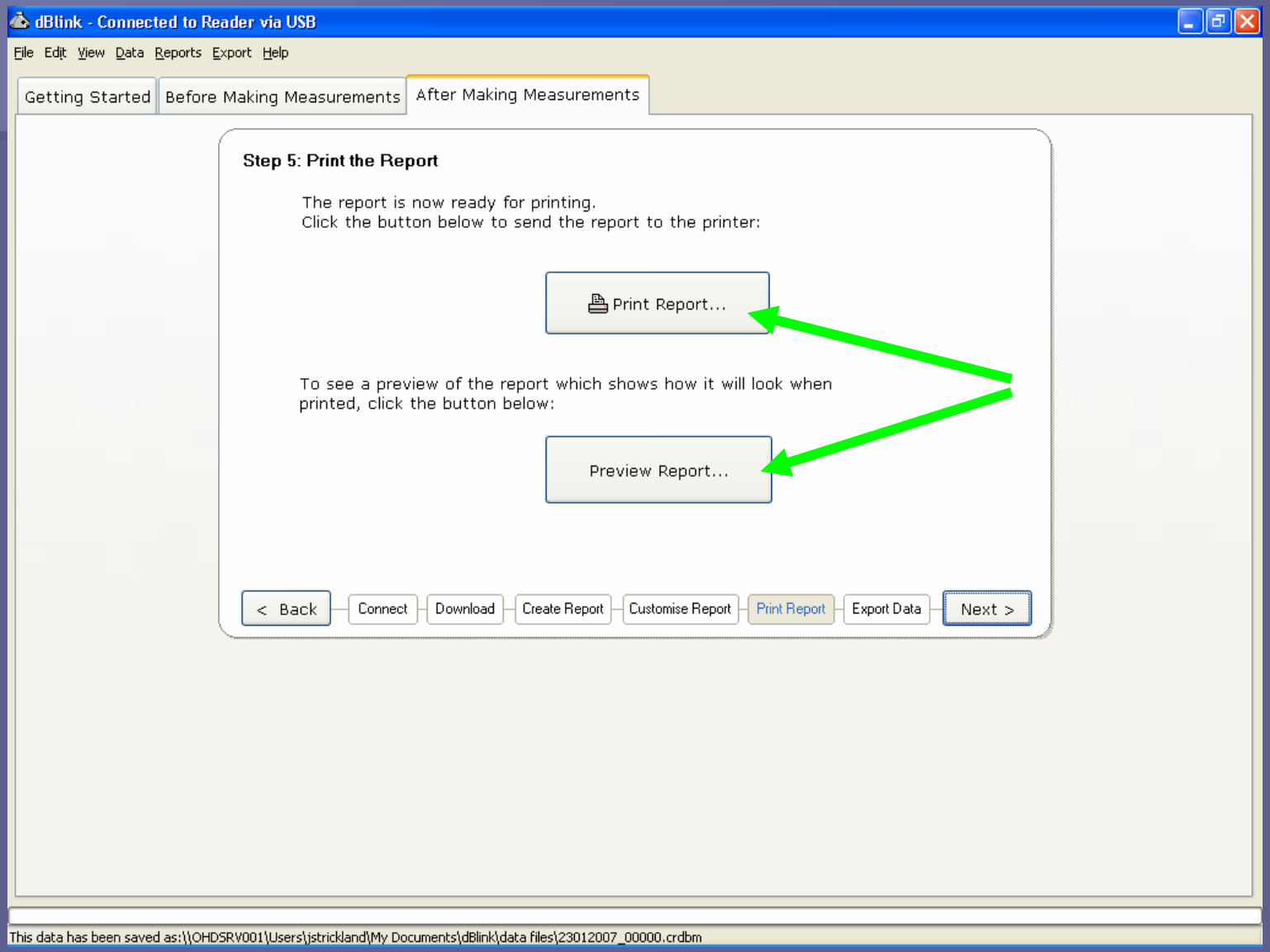


You can customize your report by giving a title and notes about the report. For example,

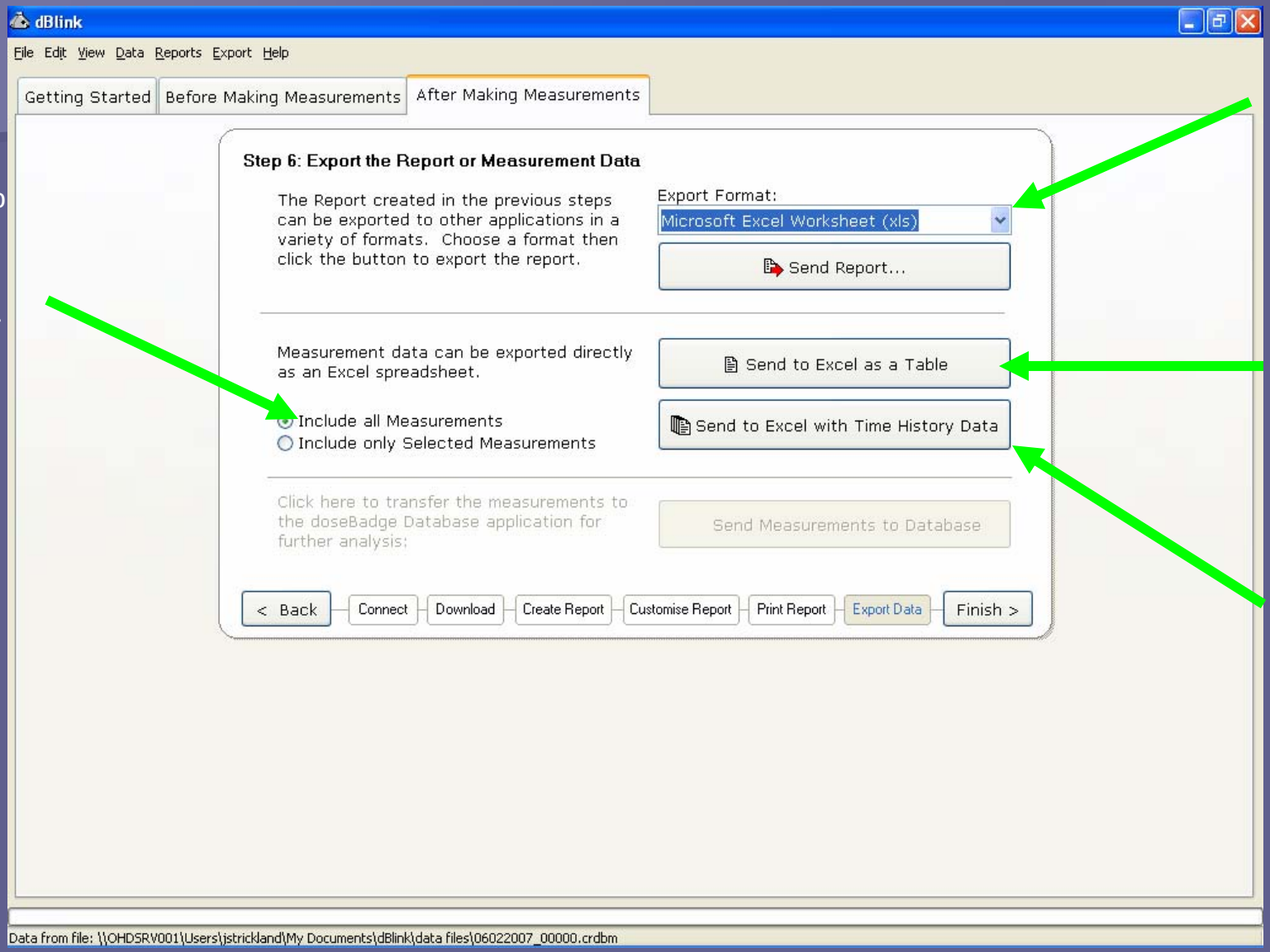


Create a title and write notes for your report.

You can either preview or print your report by clicking on the appropriate button below.



You can export your data into several different options.
The most common being a PDF file or Excel spreadsheet.



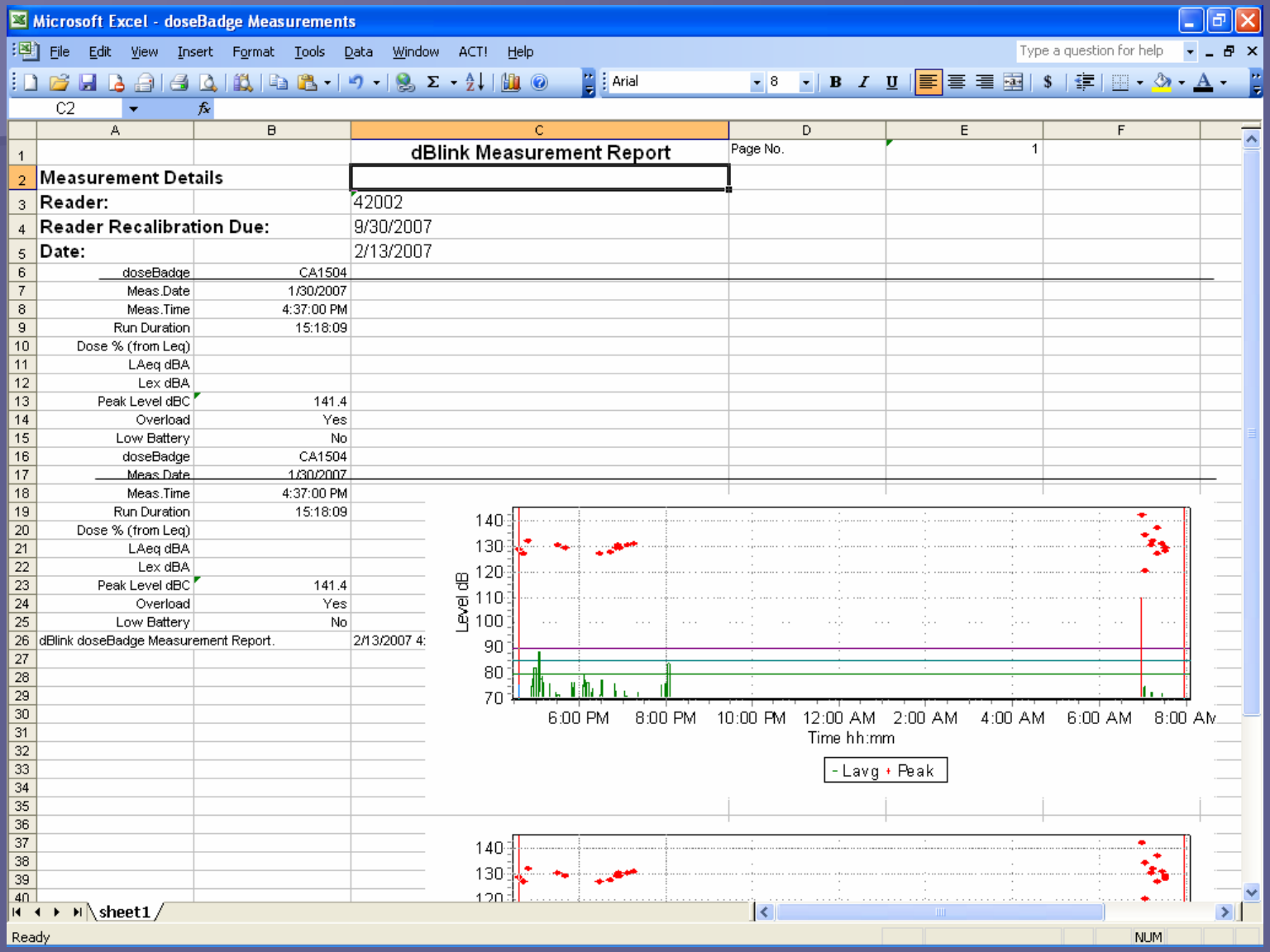
You can choose to include all measure ments or only those selected.

Choose from drop down menu the format you would like to use to export your report.

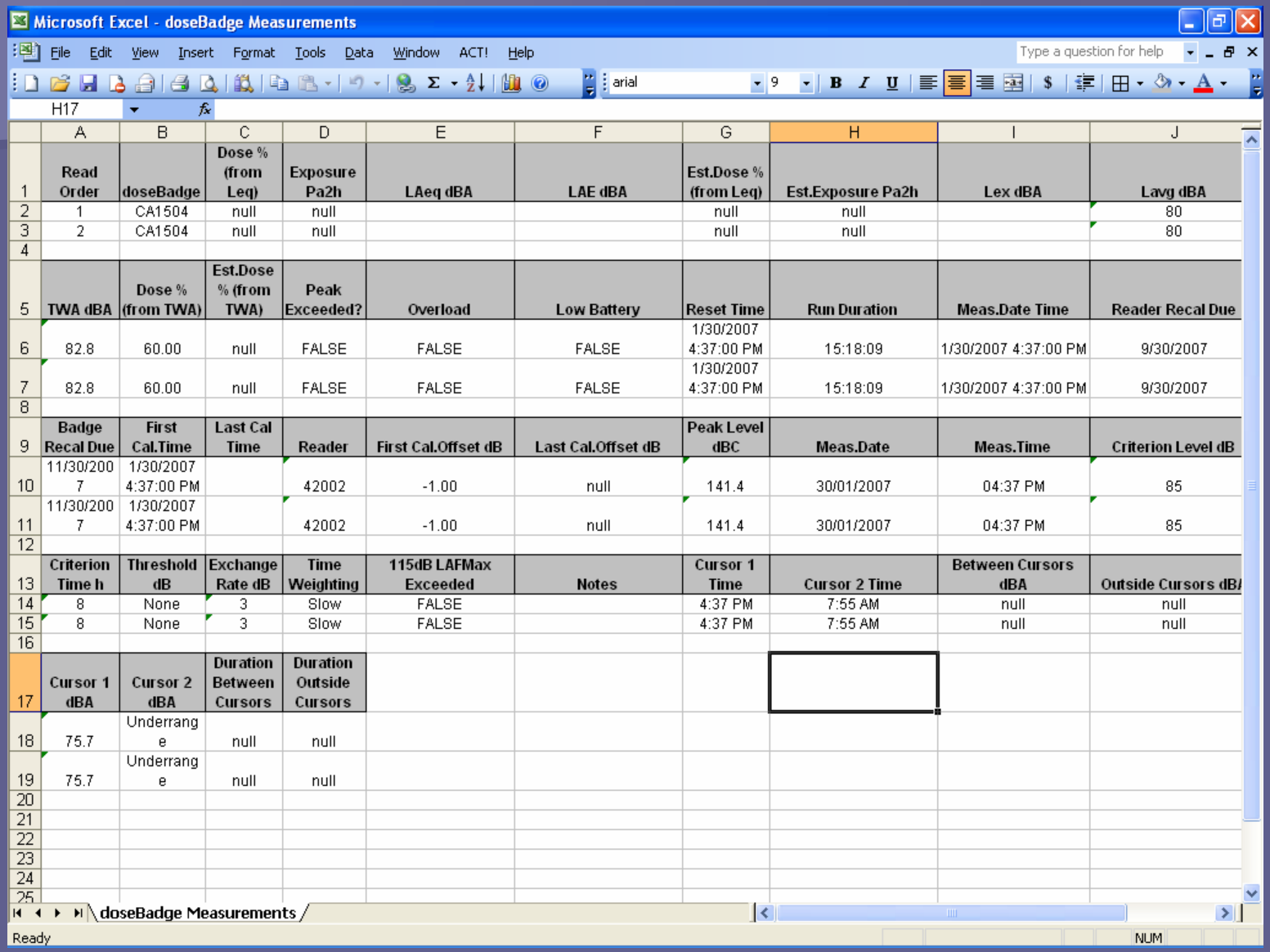
You can send the data to a table format in Excel.

You can send the data with time history to an excel spreadsheet.

Exported data in Excel Spreadsheet.



Exported data in Excel table



Microsoft Excel - doseBadge Measurements

File Edit View Insert Format Tools Data Window ACT! Help

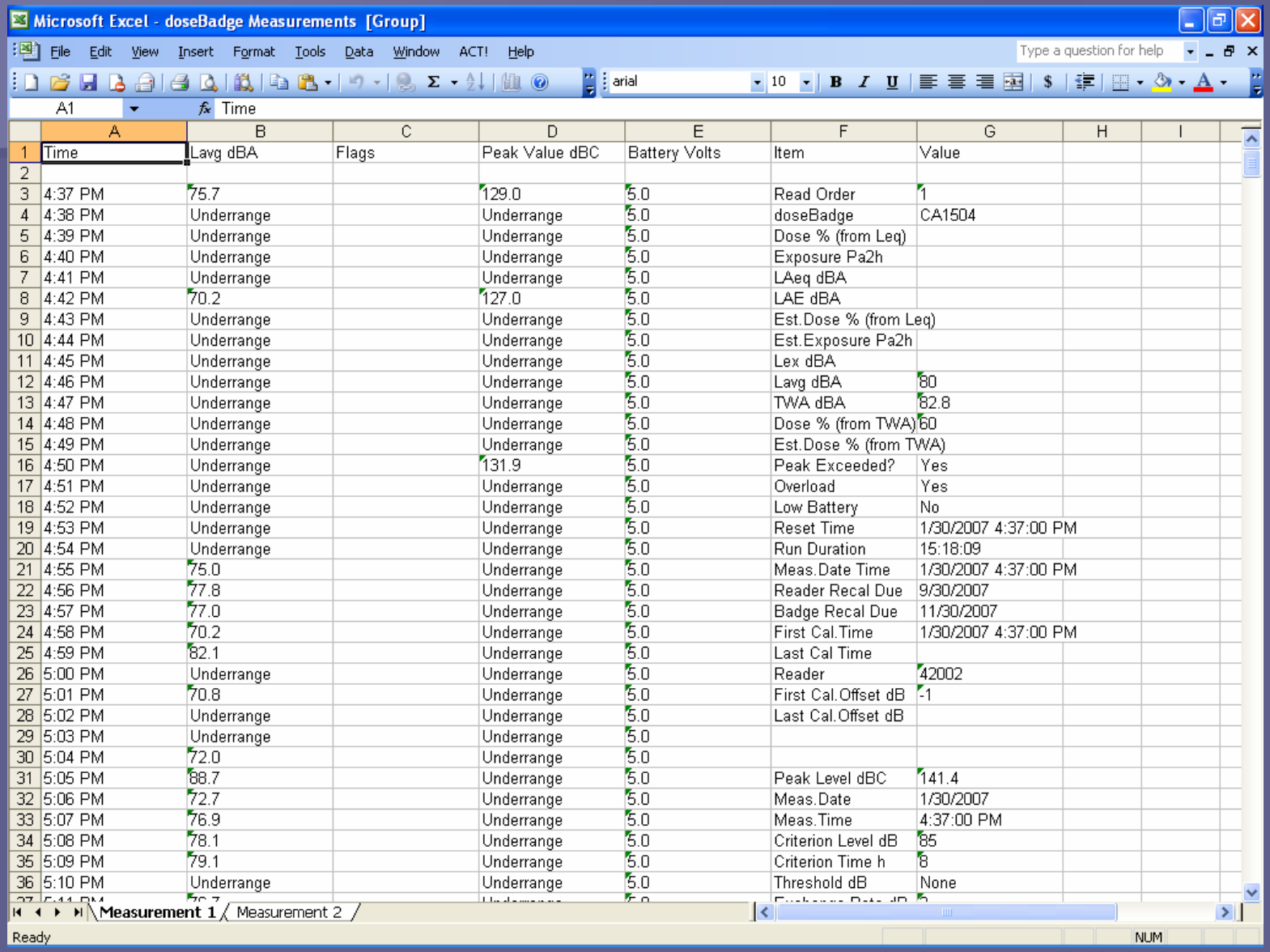
H17

	A	B	C	D	E	F	G	H	I	J
1	Read Order	doseBadge	Dose % (from Leq)	Exposure Pa2h	LAeq dBA	LAE dBA	Est.Dose % (from Leq)	Est.Exposure Pa2h	Lex dBA	Lavg dBA
2	1	CA1504	null	null			null	null		80
3	2	CA1504	null	null			null	null		80
4										
5	TWA dBA	Dose % (from TWA)	Est.Dose % (from TWA)	Peak Exceeded?	Overload	Low Battery	Reset Time	Run Duration	Meas.Date Time	Reader Recal Due
6	82.8	60.00	null	FALSE	FALSE	FALSE	1/30/2007 4:37:00 PM	15:18:09	1/30/2007 4:37:00 PM	9/30/2007
7	82.8	60.00	null	FALSE	FALSE	FALSE	1/30/2007 4:37:00 PM	15:18:09	1/30/2007 4:37:00 PM	9/30/2007
8										
9	Badge Recal Due	First Cal.Time	Last Cal Time	Reader	First Cal.Offset dB	Last Cal.Offset dB	Peak Level dBC	Meas.Date	Meas.Time	Criterion Level dB
10	11/30/2007	1/30/2007 4:37:00 PM		42002	-1.00	null	141.4	30/01/2007	04:37 PM	85
11	11/30/2007	1/30/2007 4:37:00 PM		42002	-1.00	null	141.4	30/01/2007	04:37 PM	85
12										
13	Criterion Time h	Threshold dB	Exchange Rate dB	Time Weighting	115dB LAFMax Exceeded	Notes	Cursor 1 Time	Cursor 2 Time	Between Cursors dBA	Outside Cursors dB
14	8	None	3	Slow	FALSE		4:37 PM	7:55 AM	null	null
15	8	None	3	Slow	FALSE		4:37 PM	7:55 AM	null	null
16										
17	Cursor 1 dBA	Cursor 2 dBA	Duration Between Cursors	Duration Outside Cursors						
18	75.7	Underrange	null	null						
19	75.7	Underrange	null	null						
20										
21										
22										
23										
24										
25										

doseBadge Measurements

Ready NUM

Exported data in Excel including Time History



Microsoft Excel - doseBadge Measurements [Group]

File Edit View Insert Format Tools Data Window ACT! Help

Type a question for help

arial 10

A1 Time

	A	B	C	D	E	F	G	H	I
1	Time	Lavg dBA	Flags	Peak Value dBC	Battery Volts	Item	Value		
2									
3	4:37 PM	75.7		129.0	5.0	Read Order	1		
4	4:38 PM	Underrange		Underrange	5.0	doseBadge	CA1504		
5	4:39 PM	Underrange		Underrange	5.0	Dose % (from Leq)			
6	4:40 PM	Underrange		Underrange	5.0	Exposure Pa2h			
7	4:41 PM	Underrange		Underrange	5.0	LAeq dBA			
8	4:42 PM	70.2		127.0	5.0	LAE dBA			
9	4:43 PM	Underrange		Underrange	5.0	Est.Dose % (from Leq)			
10	4:44 PM	Underrange		Underrange	5.0	Est.Exposure Pa2h			
11	4:45 PM	Underrange		Underrange	5.0	Lex dBA			
12	4:46 PM	Underrange		Underrange	5.0	Lavg dBA	80		
13	4:47 PM	Underrange		Underrange	5.0	TWA dBA	82.8		
14	4:48 PM	Underrange		Underrange	5.0	Dose % (from TWA)	60		
15	4:49 PM	Underrange		Underrange	5.0	Est.Dose % (from TWA)			
16	4:50 PM	Underrange		131.9	5.0	Peak Exceeded?	Yes		
17	4:51 PM	Underrange		Underrange	5.0	Overload	Yes		
18	4:52 PM	Underrange		Underrange	5.0	Low Battery	No		
19	4:53 PM	Underrange		Underrange	5.0	Reset Time	1/30/2007 4:37:00 PM		
20	4:54 PM	Underrange		Underrange	5.0	Run Duration	15:18:09		
21	4:55 PM	75.0		Underrange	5.0	Meas.Date Time	1/30/2007 4:37:00 PM		
22	4:56 PM	77.8		Underrange	5.0	Reader Recal Due	9/30/2007		
23	4:57 PM	77.0		Underrange	5.0	Badge Recal Due	11/30/2007		
24	4:58 PM	70.2		Underrange	5.0	First Cal.Time	1/30/2007 4:37:00 PM		
25	4:59 PM	82.1		Underrange	5.0	Last Cal Time			
26	5:00 PM	Underrange		Underrange	5.0	Reader	42002		
27	5:01 PM	70.8		Underrange	5.0	First Cal.Offset dB	-1		
28	5:02 PM	Underrange		Underrange	5.0	Last Cal.Offset dB			
29	5:03 PM	Underrange		Underrange	5.0				
30	5:04 PM	72.0		Underrange	5.0				
31	5:05 PM	88.7		Underrange	5.0	Peak Level dBC	141.4		
32	5:06 PM	72.7		Underrange	5.0	Meas.Date	1/30/2007		
33	5:07 PM	76.9		Underrange	5.0	Meas.Time	4:37:00 PM		
34	5:08 PM	78.1		Underrange	5.0	Criterion Level dB	85		
35	5:09 PM	79.1		Underrange	5.0	Criterion Time h	8		
36	5:10 PM	Underrange		Underrange	5.0	Threshold dB	None		

Measurement 1 / Measurement 2

Ready NUM

Make sure you recharge each doseBadge when you are finished with your testing.

Quick Charge: If the doseBadges are completely flat, they will be fully charged in 2.5 hours maximum.