Data Management System Operation Guide

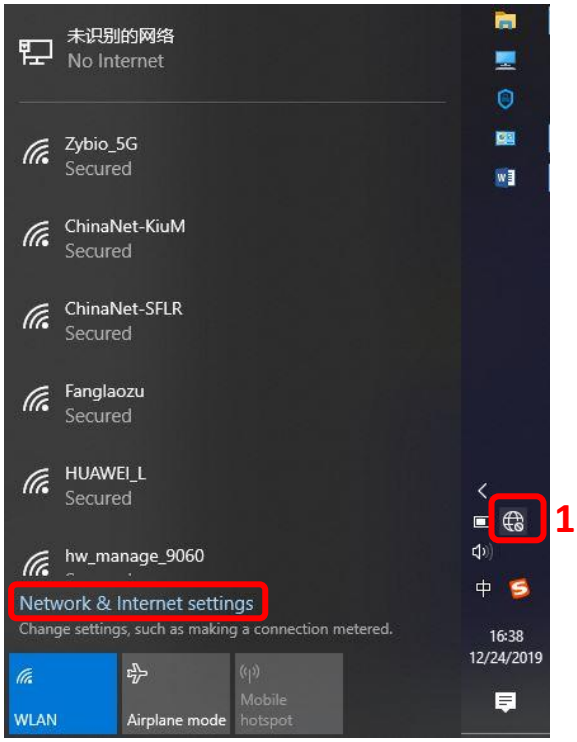
Part 1: Preparation for Installation

1. A network cable.
2. PC with LAN port.
3. Install “Data Management Installer” which we sent to you.
   - 3.1 Operating system requirement: Windows 7 Ultimate; Windows 8.1 Pro; Windows 10 Pro; Microsoft Windows XP Professional SP3.
   - 3.2 Supported language: English.
   - 3.3 Supported resolution: at least 1024*768.

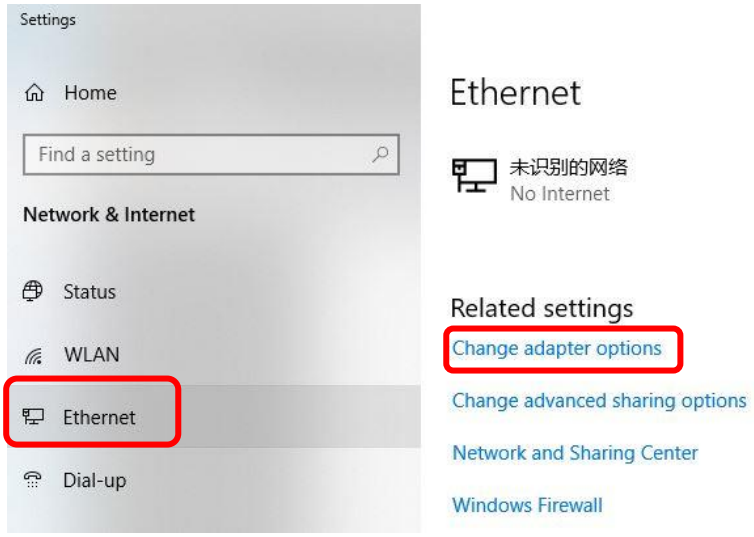
4 Connect machine and computer with network cable. Check if machine LAN port green light is flashing to confirm whether the cable connected well or not.

Part 2: Check IP on PC

1 Enter into “Network&Internet settins”, like the picture below shows.

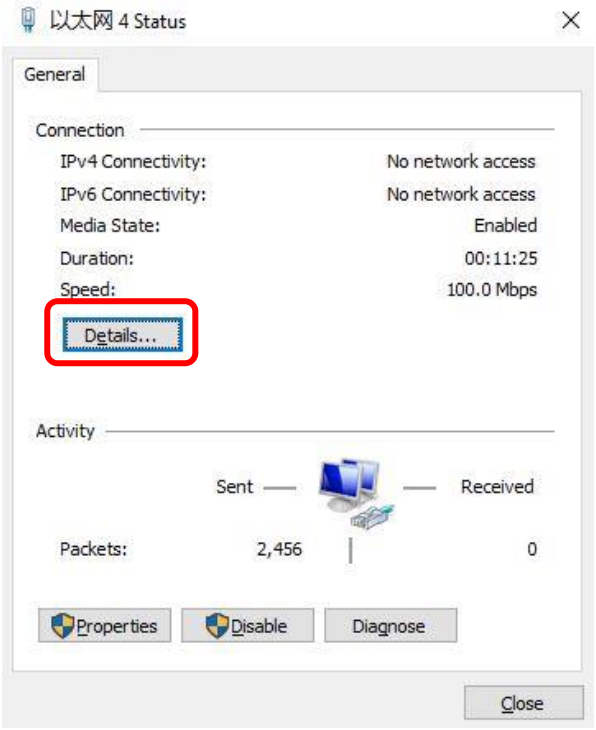


2 Enter into “Ethernet” > “Change adapter options”.

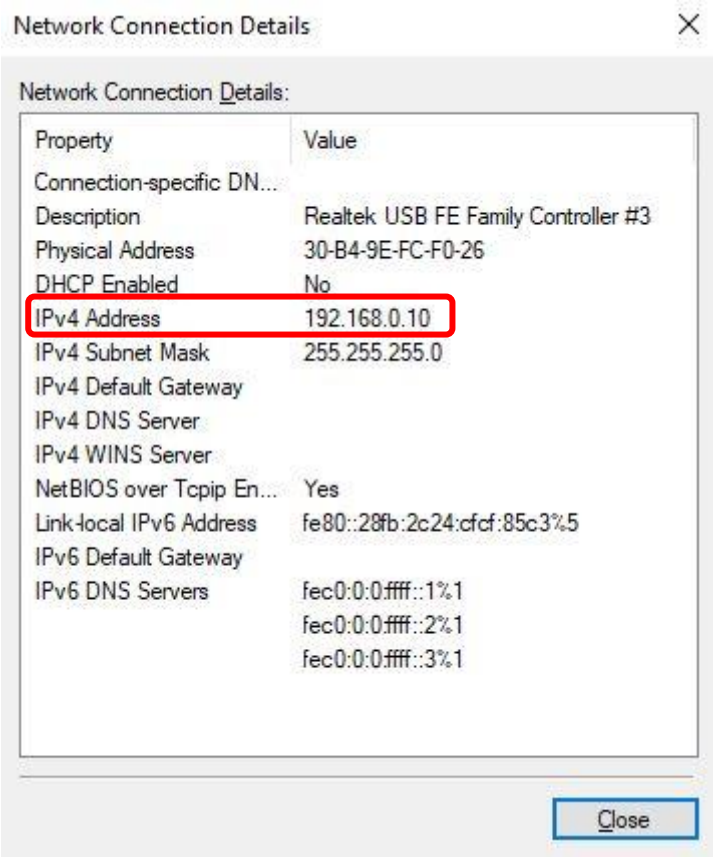


3 Double click corresponding network.

4 Click “Details” to check IP.

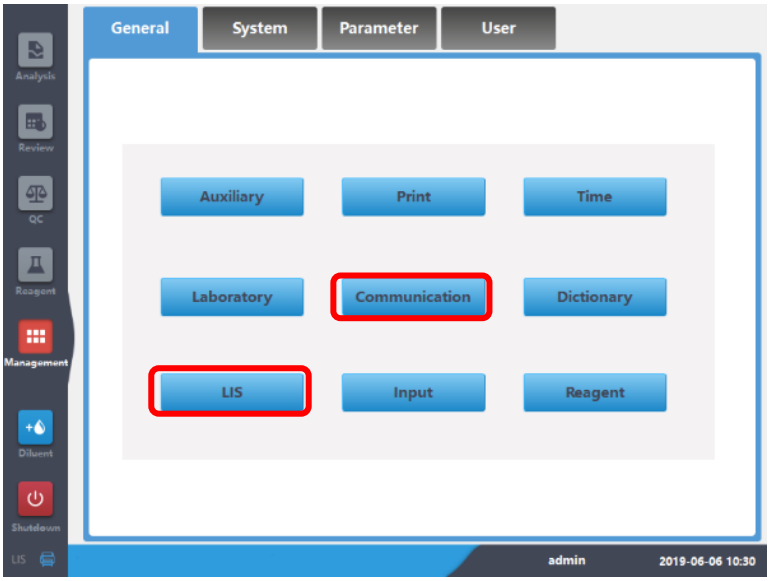


5 Get IP of your PC.



Part 3: Parameter setting for machine

1. Enter into “Management” => “Setup” => “General” interface like the following picture.

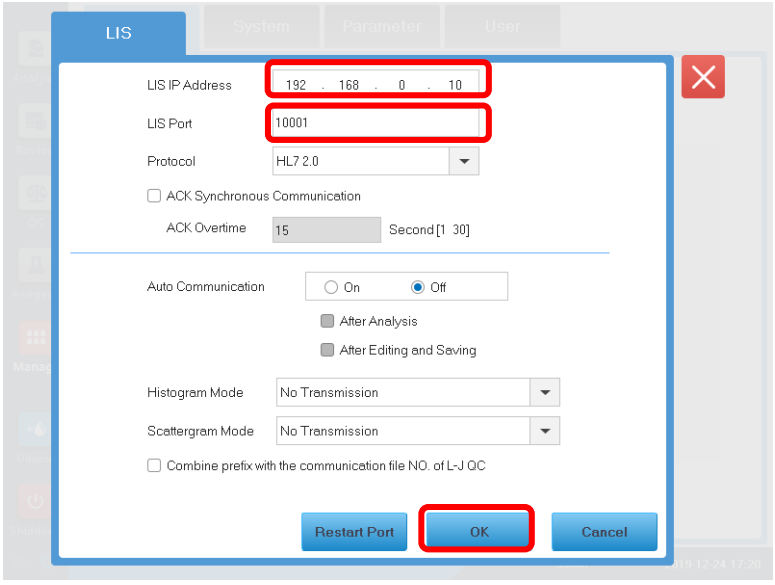


2. **Enter LIS interface** to set IP Address and LIS Port. Then click OK to save.

Set the LIS IP same as the computer IP that you get in part 2.

For this example: LIS IP Address: 192.168.0.10

LIS Port: 10001



3. **Enter “communication” interface** to set “IP Address” and “Default Gateway”. Then click OK to save.

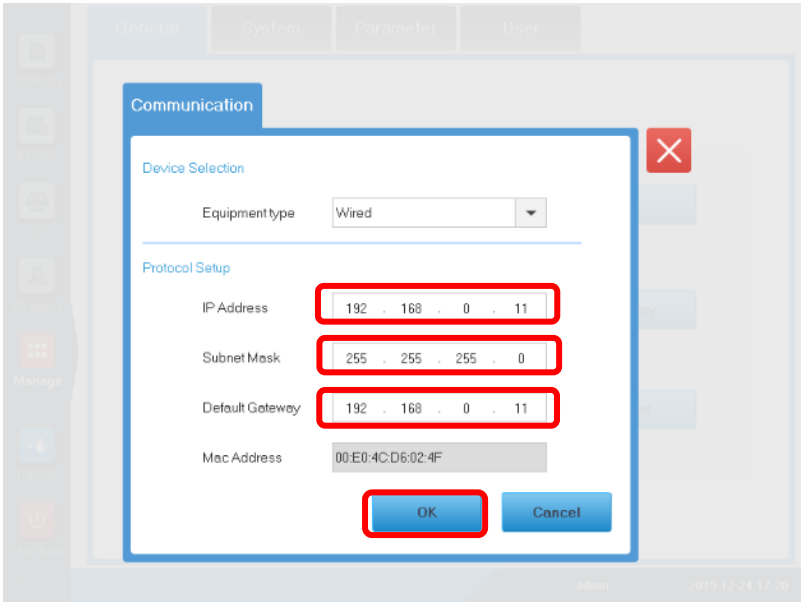
(PS: The last segment number of the communication IP should be different with the LIS IP, I marked it in the following example with red color.)

For example:

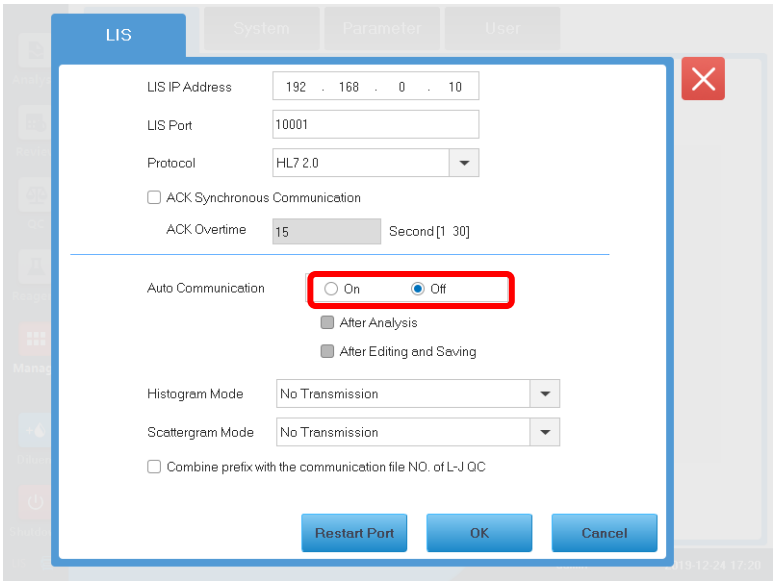
IP Address: 192.168.0.11

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.0.11

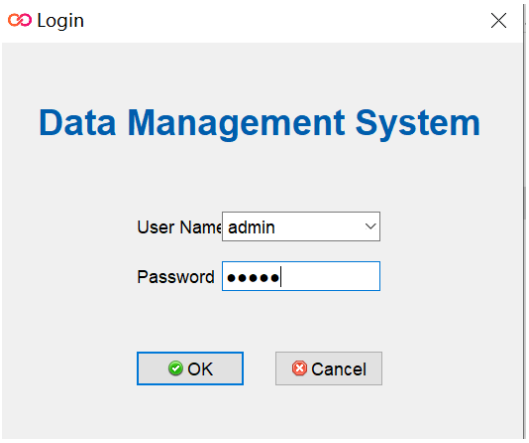


4. In **LIS interface** can also set auto communication, with “Open” and “Close” we can set machine whether to transfer data automatically or not. We can set machine transfer data automatically after analysis or after editing and saving.



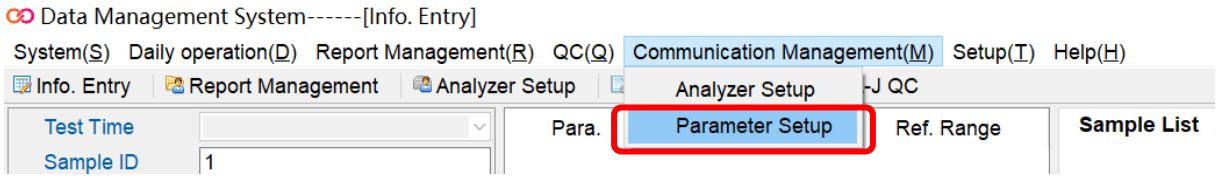
Part 4: Parameter setting for PC.

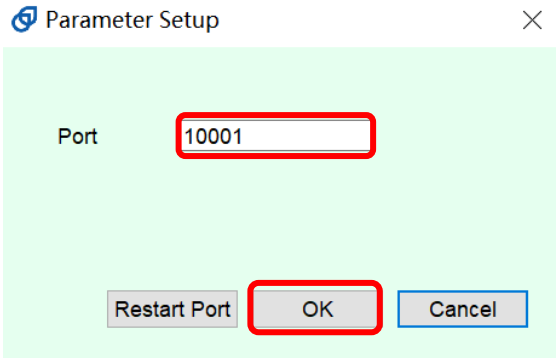
1. Log in Data management system on computer, **username: admin, password: admin.**



2. Enter “communication management” => “parameter setup” interface like following picture shows.

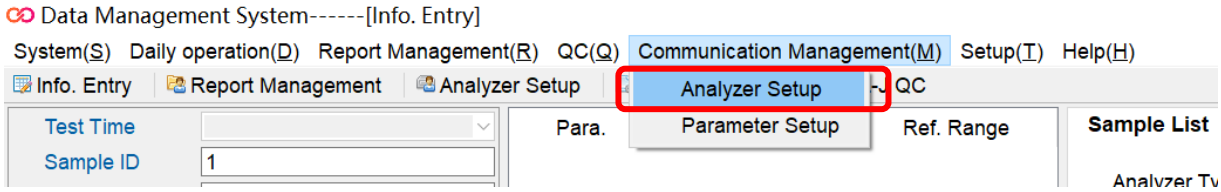
The Port number should be the same with the machine LIS Port number **“10001”**. Then click OK to save.



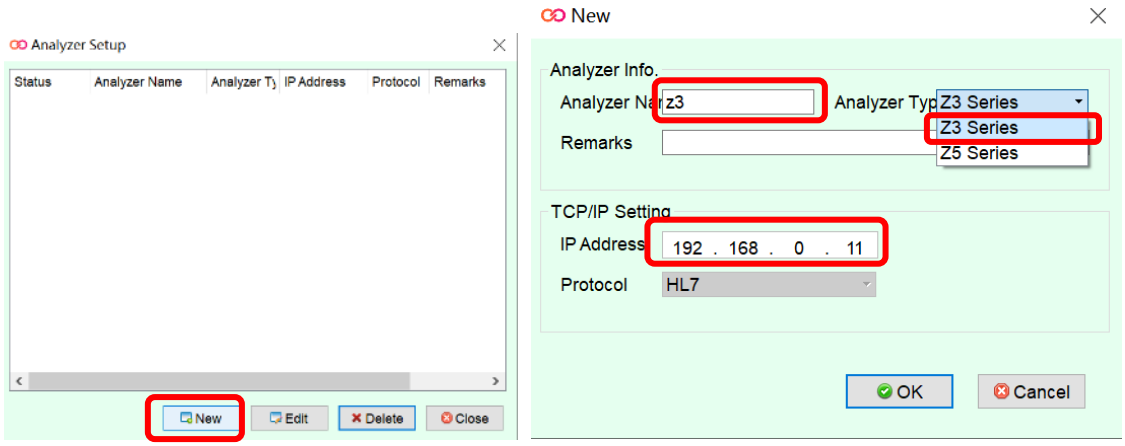


Part 4: check if the connection is success.

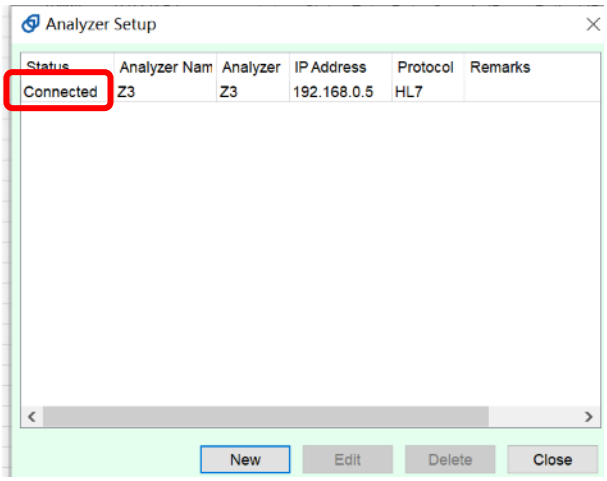
1. Go to communication management -> analyzer setup, create a new analyzer item, input the analyzer name, select the corresponding analyzer type, and the IP address should be the **same as** the **“communication interface” of machine.**



Like the example , **IP address : 192.168.0.11**

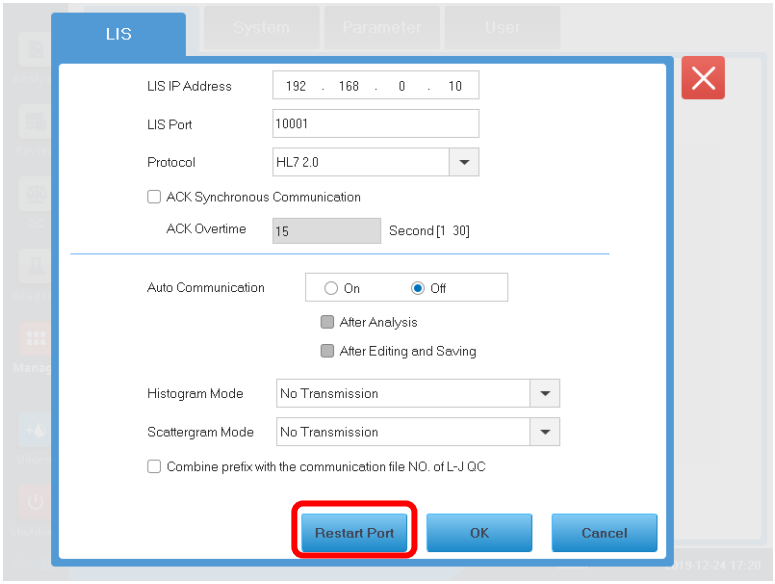


3. Click OK, the item will be created, then check the status of this item, if it is connected, we can transmit the report result.

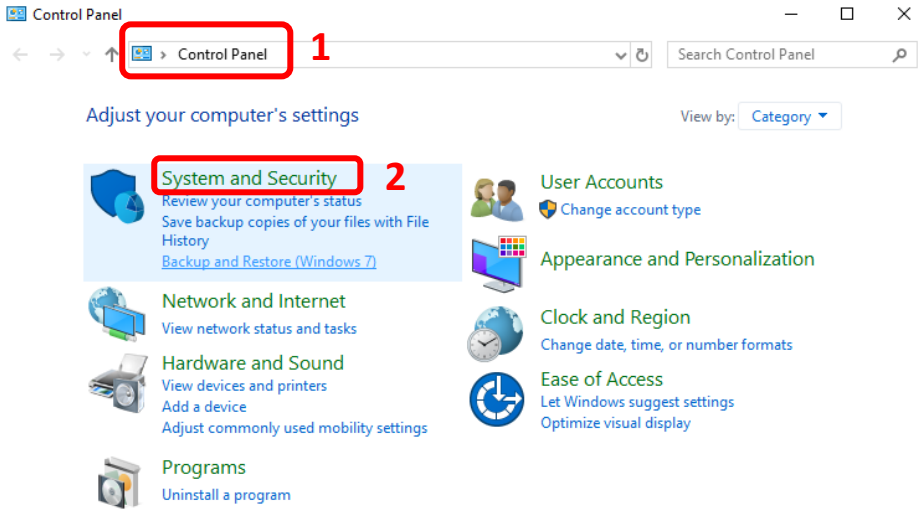


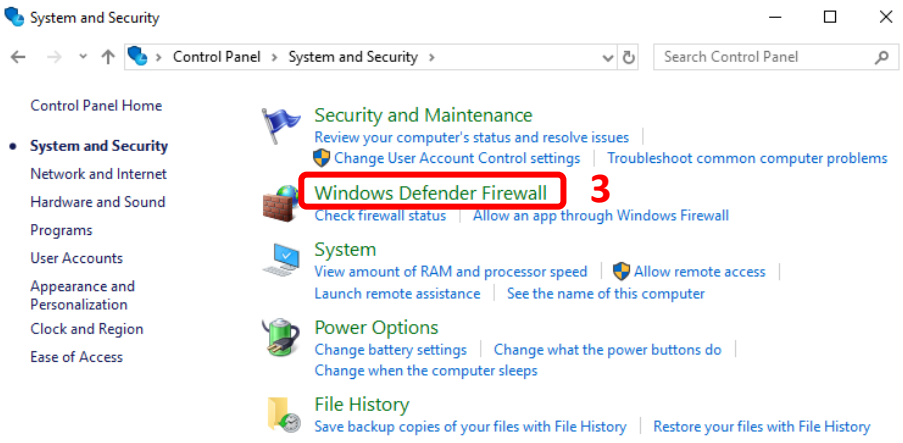
3. If it shows unconnected.

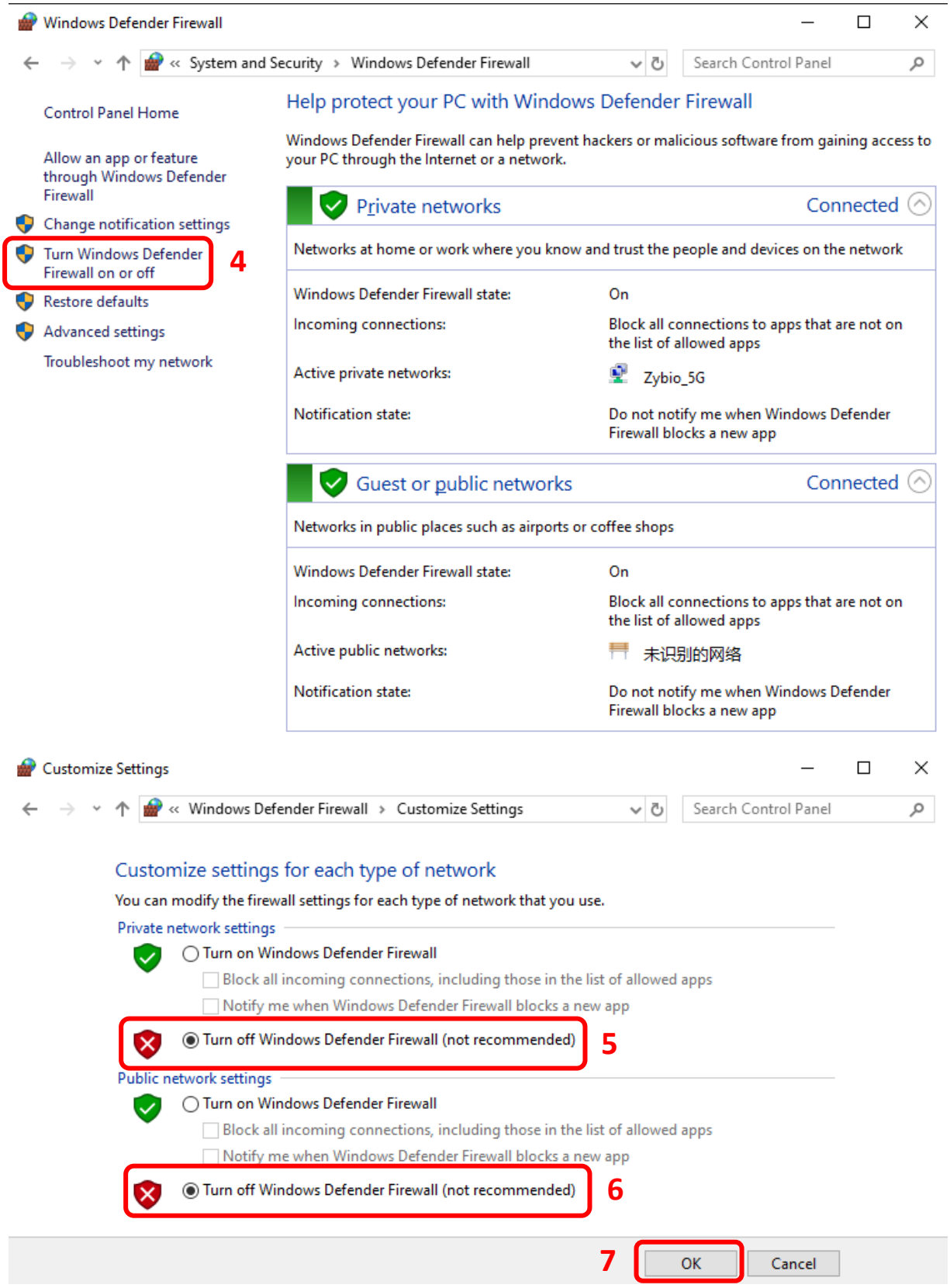
3.1 please check whether the IP address was input correctly by the rules that mentioned as above, then restart the data management system software and the port on machine.



3.2 If still cannot connected. Please try to turn off the firewall. Then check it again.



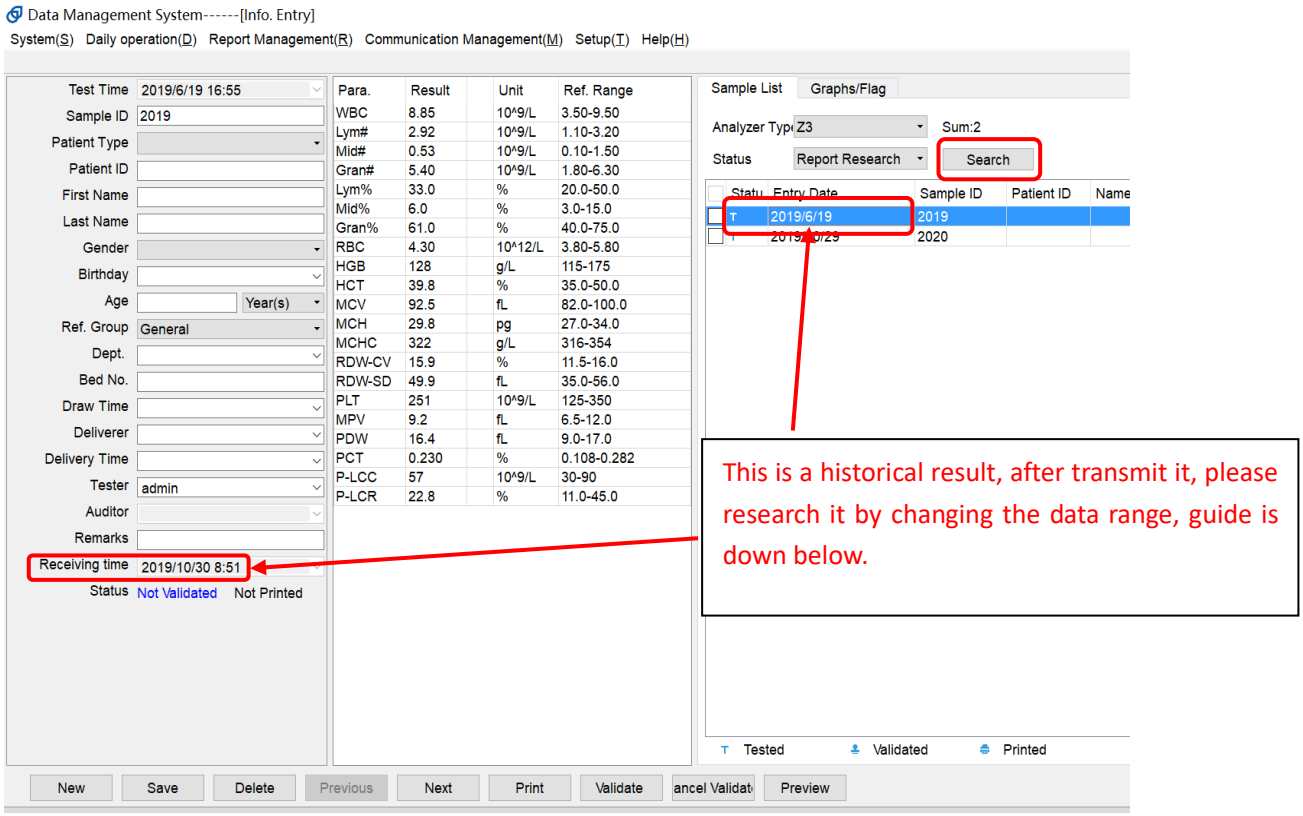




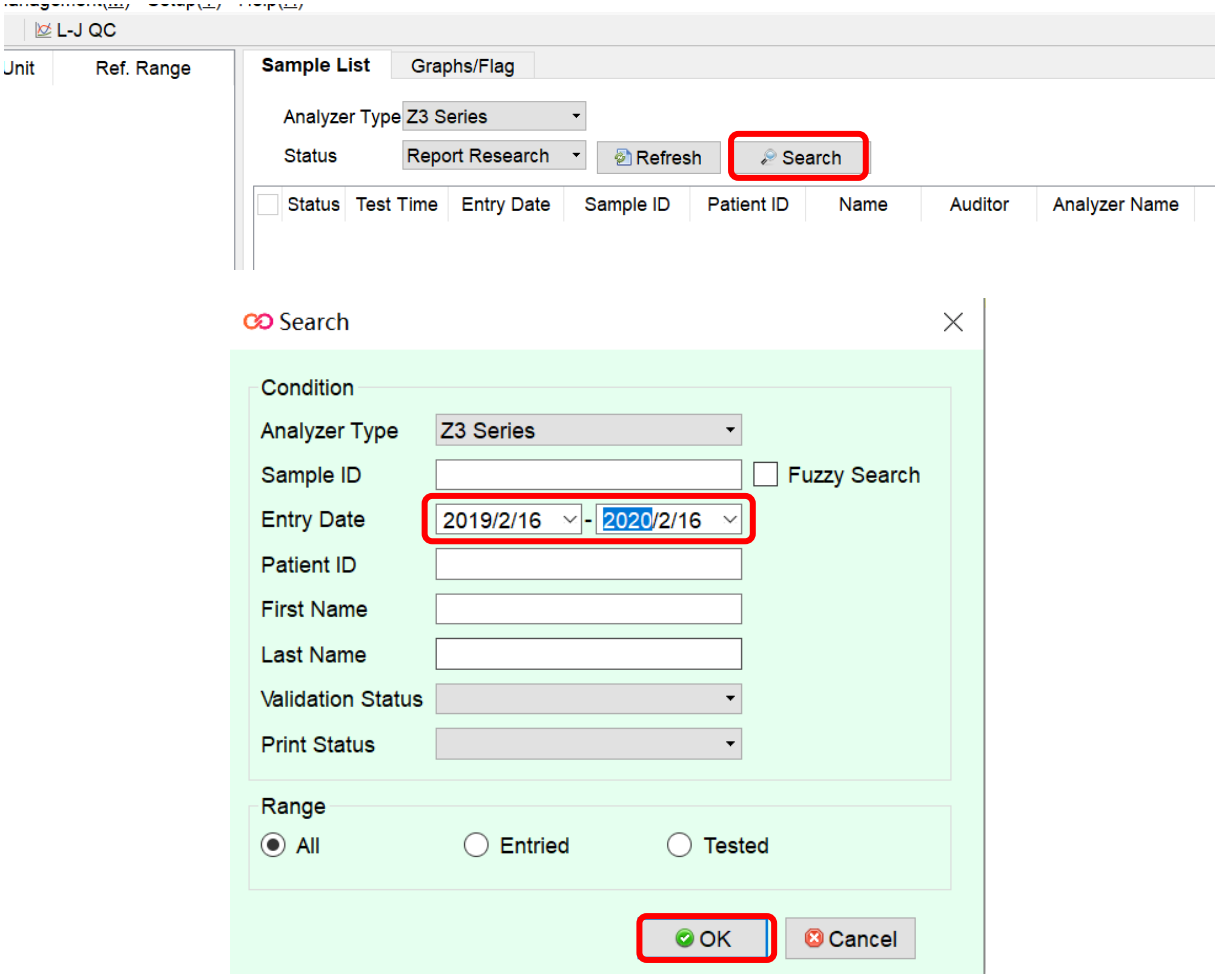
Part 5: Search and transmit analysis data

1. If the connection is success, please enter review interface, select corresponding results we need to transmit. Then click **comm.** button then the analysis data will be transmitted to Data Management System. Like the following picture shows.

Notice: Please make sure the system time of analyzer and PC are the same and correct.

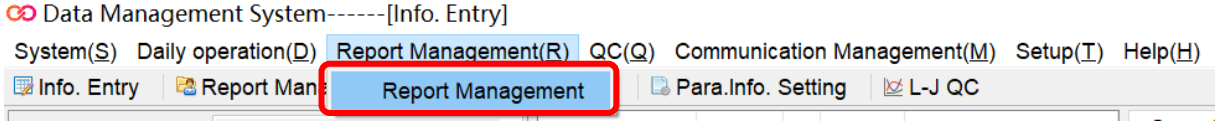


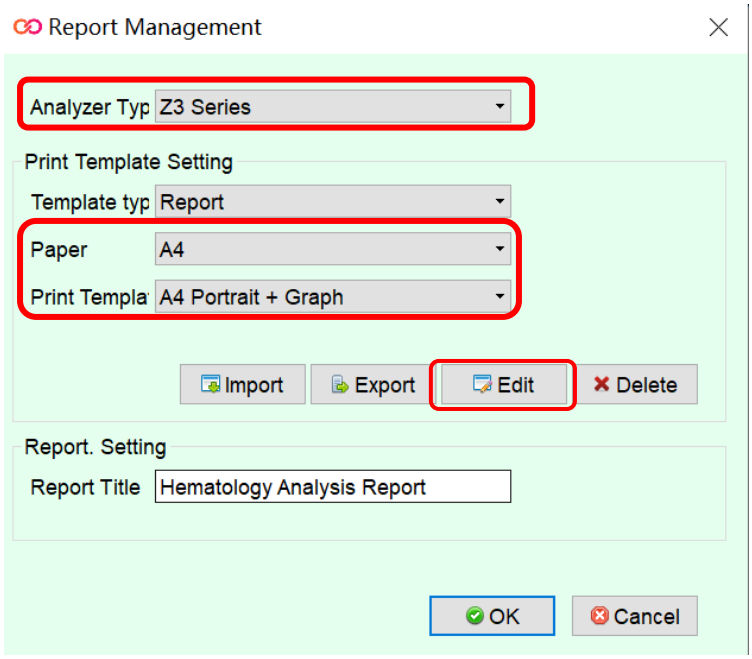
2. The data management system only show the result that tested by today directly, If the report we sent is a historical result, please use search function. Click search, select the date range, and click OK to confirm. Then software will show the historical analysis data according to the date range automatically.



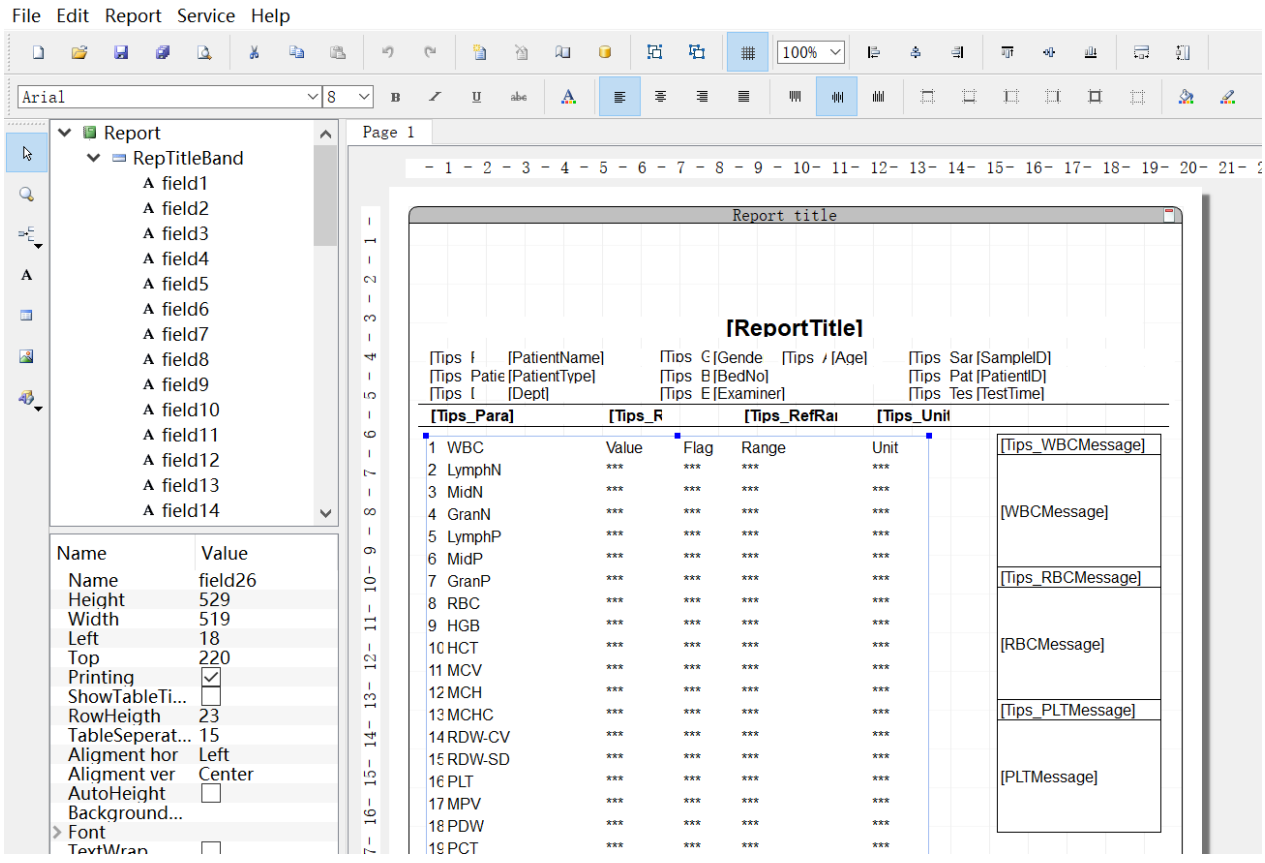
Part 6: modify the report template

1. Go to Report Management then select the **corresponding analyzer type, paper and print template.** Click Edit button.

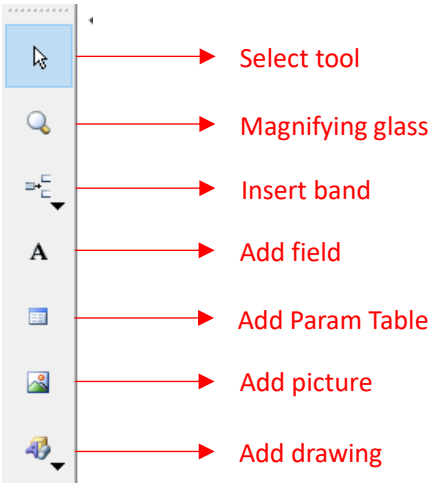




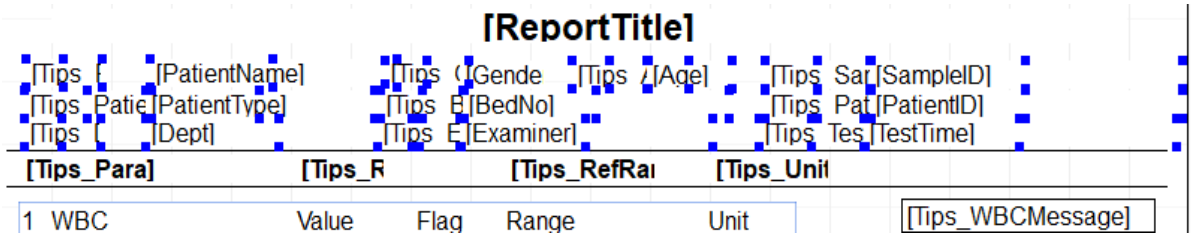
2. Then we can modify the corresponding template.



3. Choose the left side tools to modify the template.

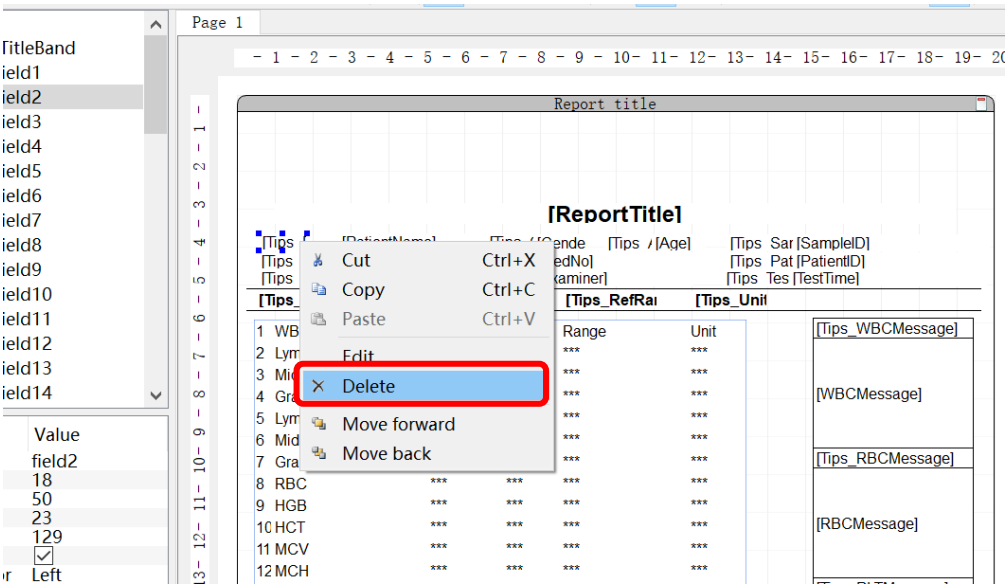


4. Hold the “Ctrl” button on keyboard to select some content then can move them together at the same time, and “Ctrl”+ “Z” to recall the mis-operation.



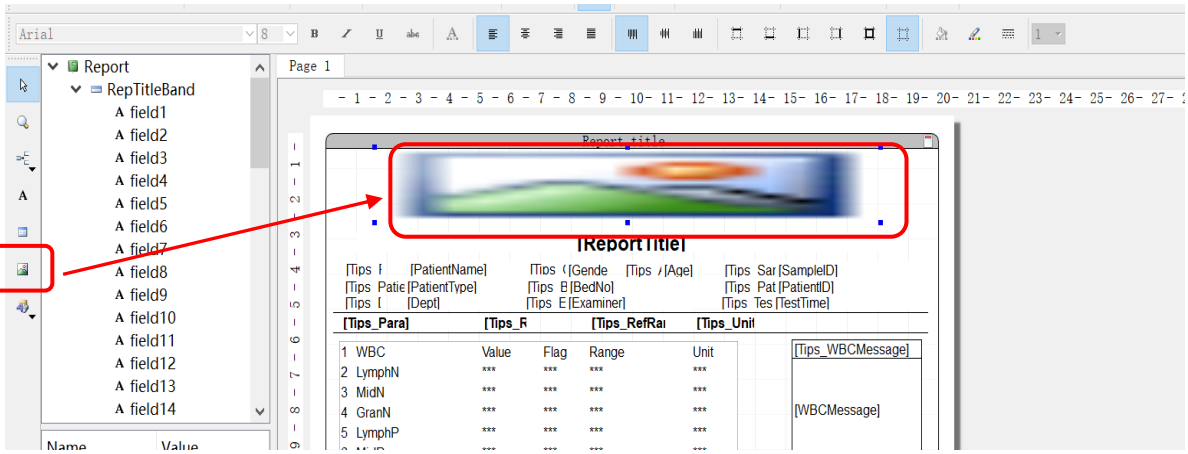
(PS: move them by using mouse or the arrow button at the lower right corner of keyboard.)

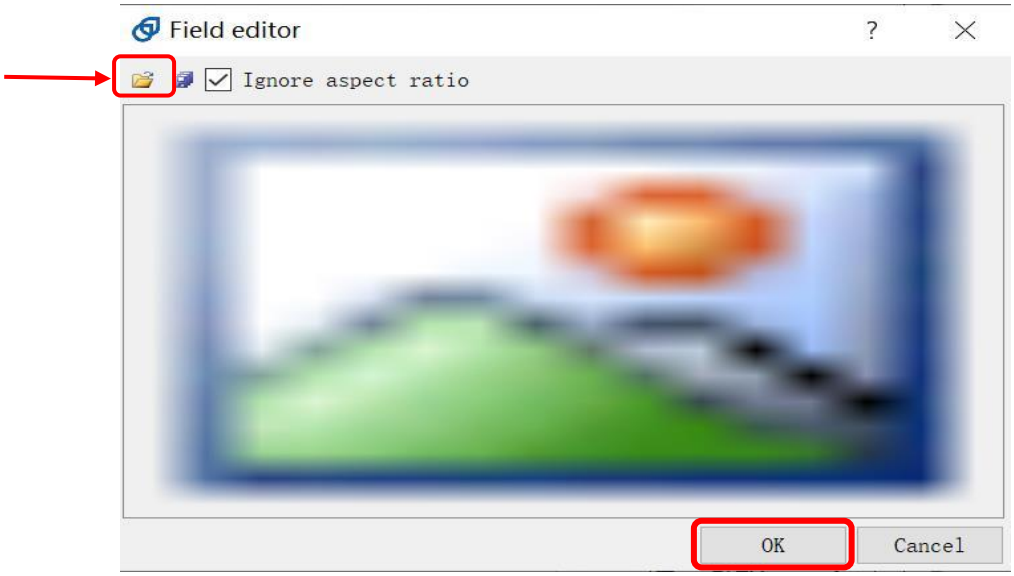
5. Select and right click to delete the content that is unnecessary.



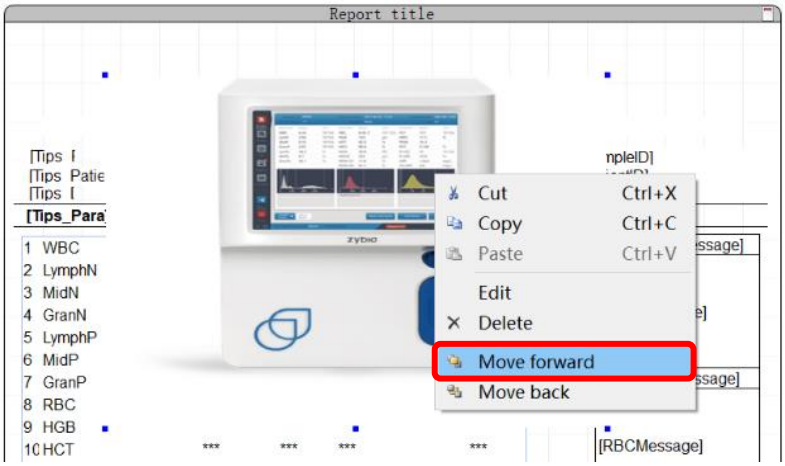
6. Click add picture. There will show a picture icon on software. Use mouse to move it and modify the size. Double click this icon will pop up a dialog box. First click file button to choose a picture from PC,

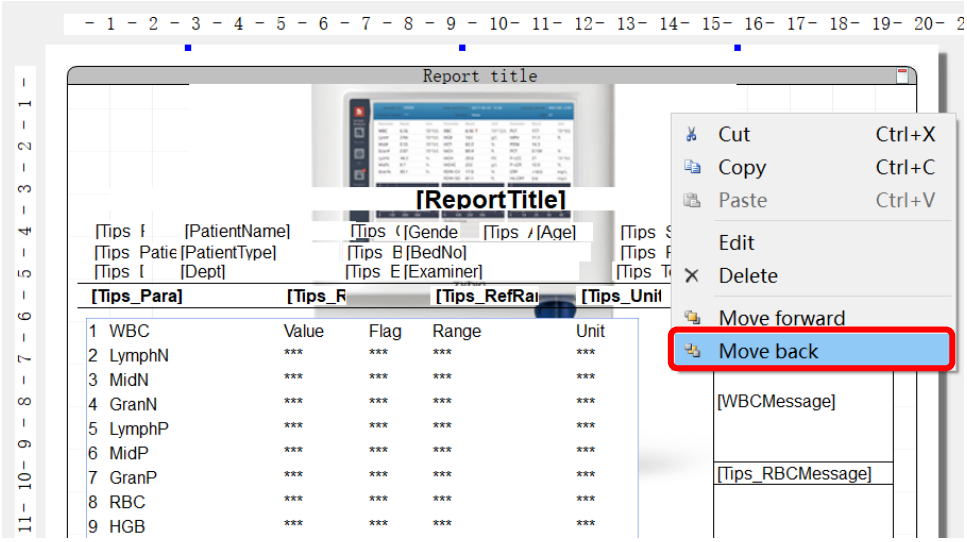
second click ok to save it.



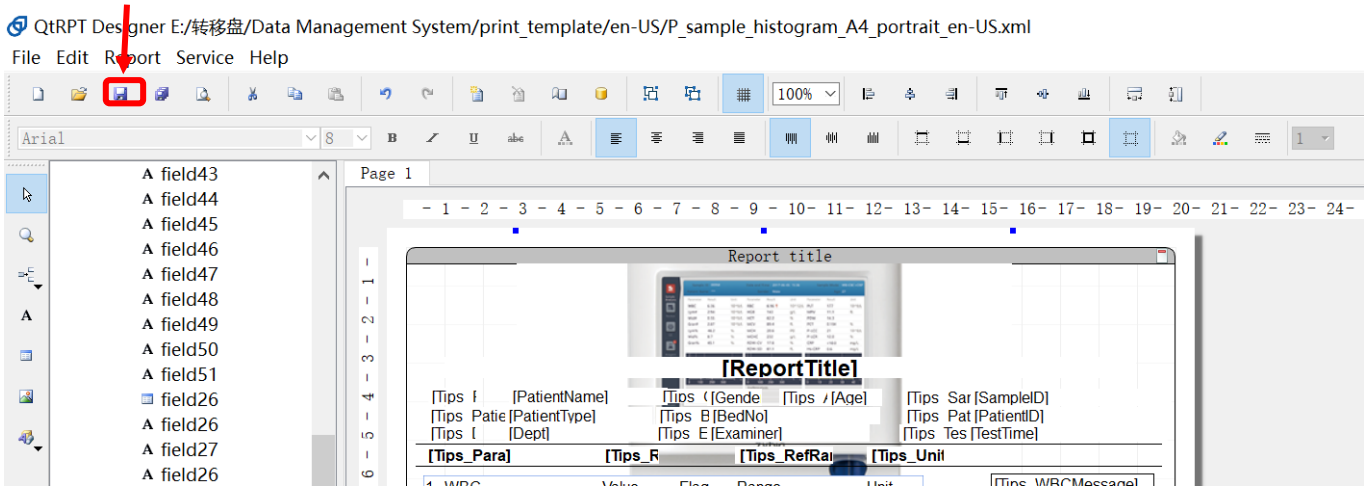


7. Select the picture and right click to choose the picture beneath the words or above the words (move forward or move back). Please check the difference by the following 2 pictures.

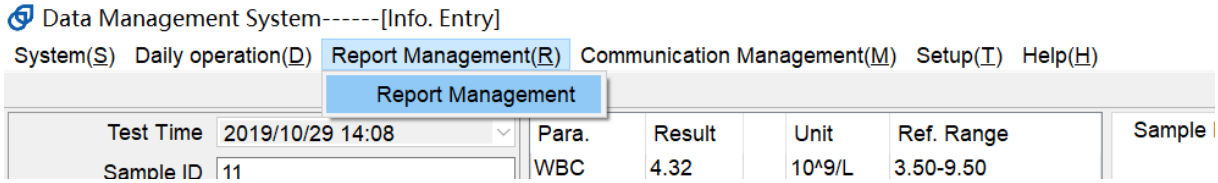


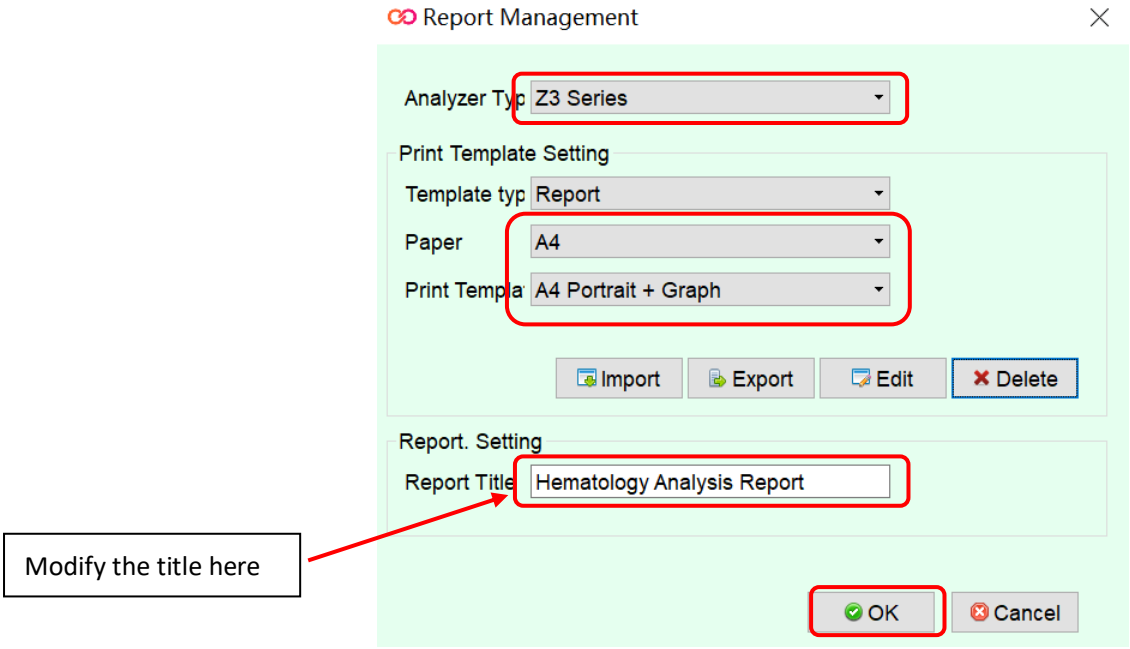


8. Click the save button to save this template.



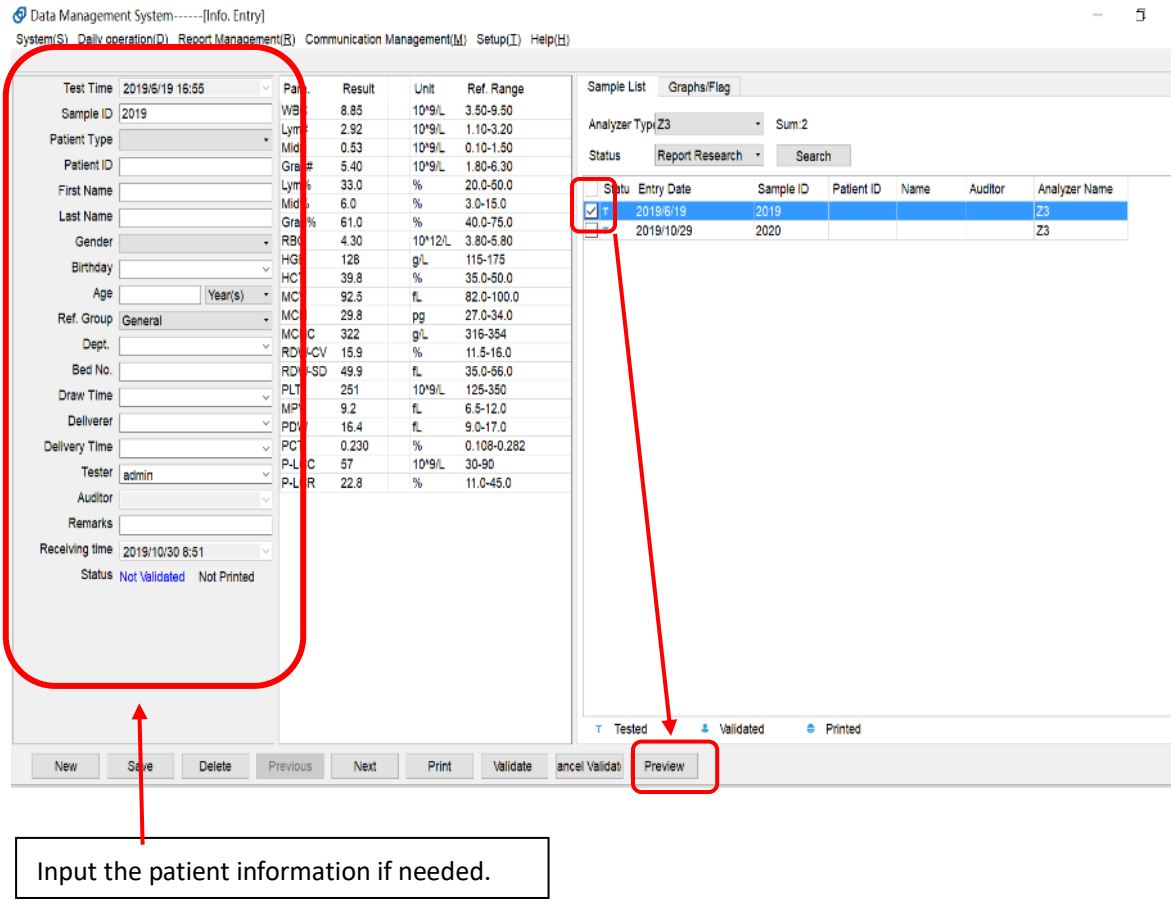
9. After save the template modification, close the current template modify software interface. Back to the data management system software, go to report management, then select the corresponding analyzer type, paper and print template that just been modified. And we can modify the report title here. Click ok, then we can print report by using this template.

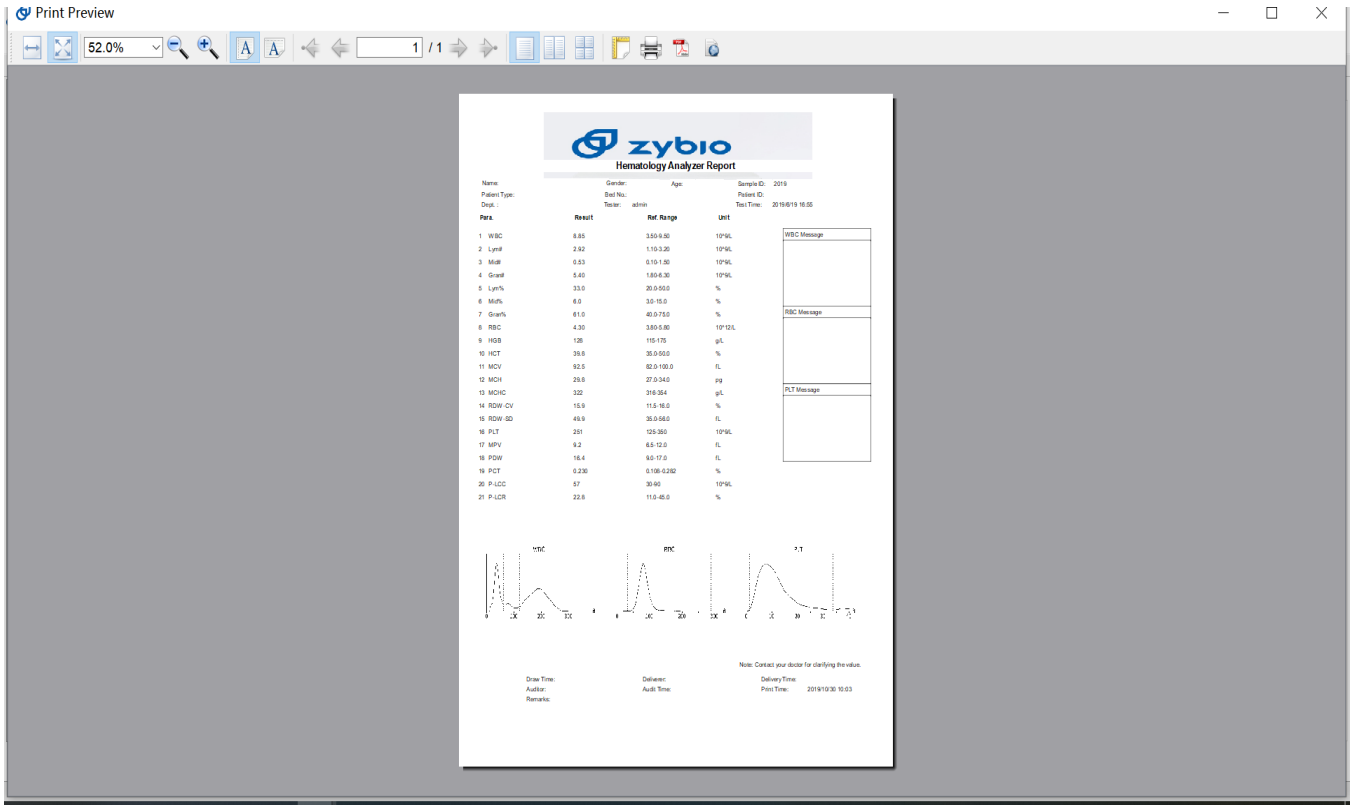




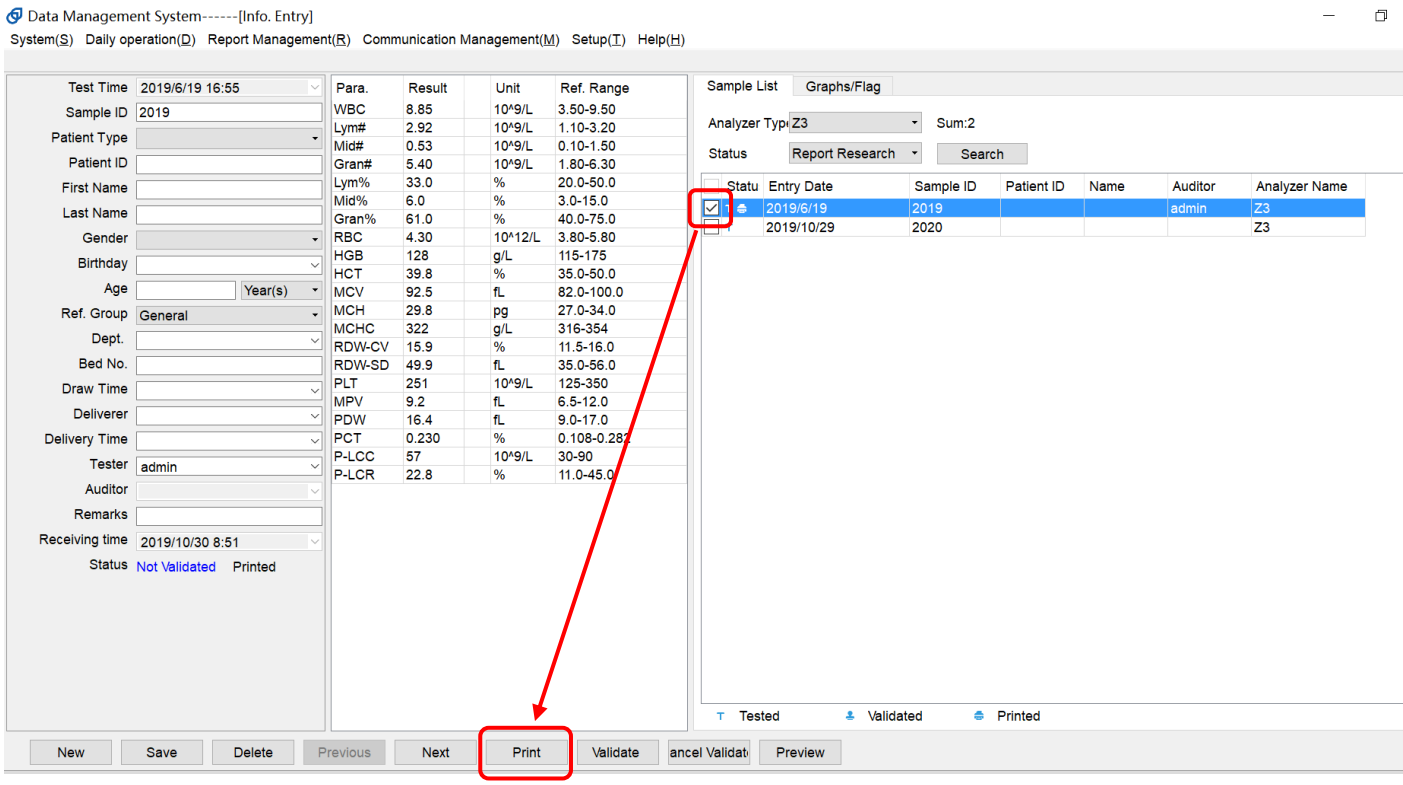
Part 7: print the report

1. Select the report that need been printed, input the patient information if needed and click the **preview** button, check if the template is correct or not.





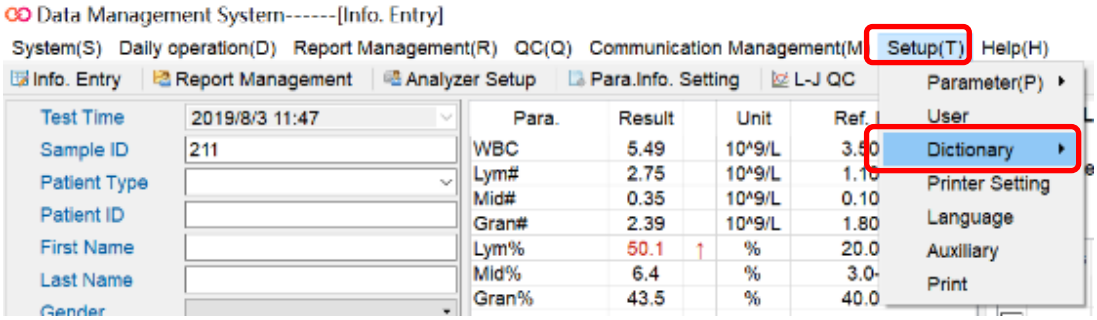
2. If the preview is correct, please close the preview interface, then click the print button at the bottom bar. Then it will print the report by your default printer.

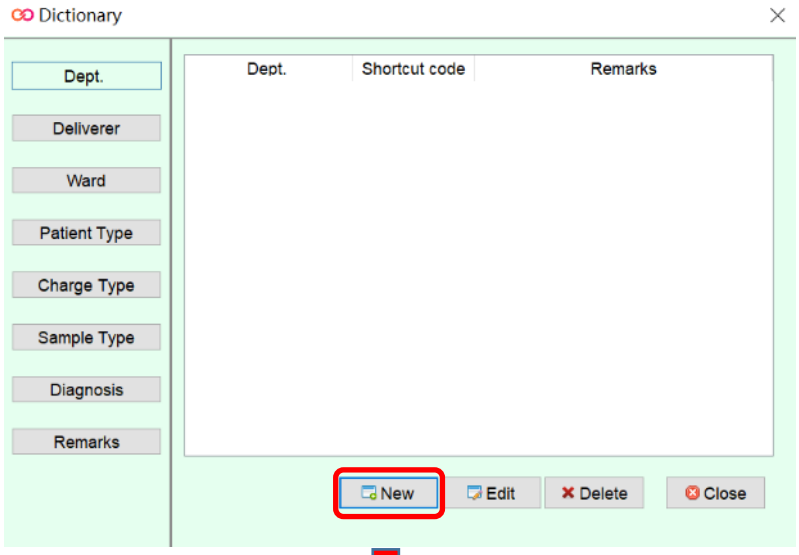


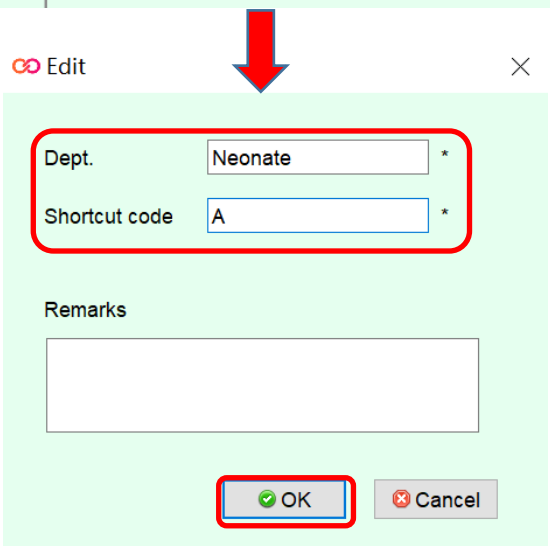
Part 8: Dictionary setting (shortcut input)

1. Go to Setup➔Dictionary, set up the dictionary for department, patient type, sample type and so on.

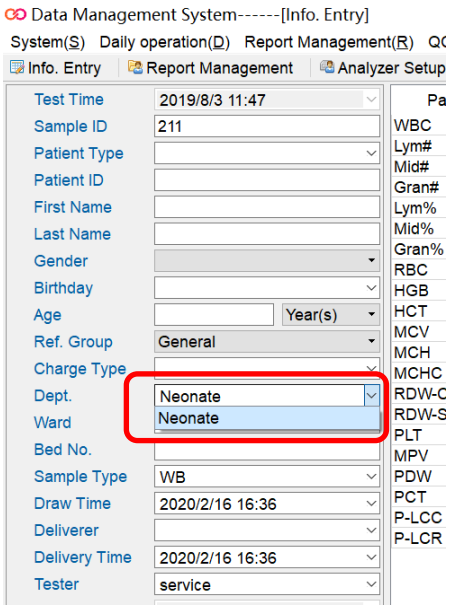
   For instance, the department shortcut input set up operation down below.







2. Then select this option in select box on patient information input box.

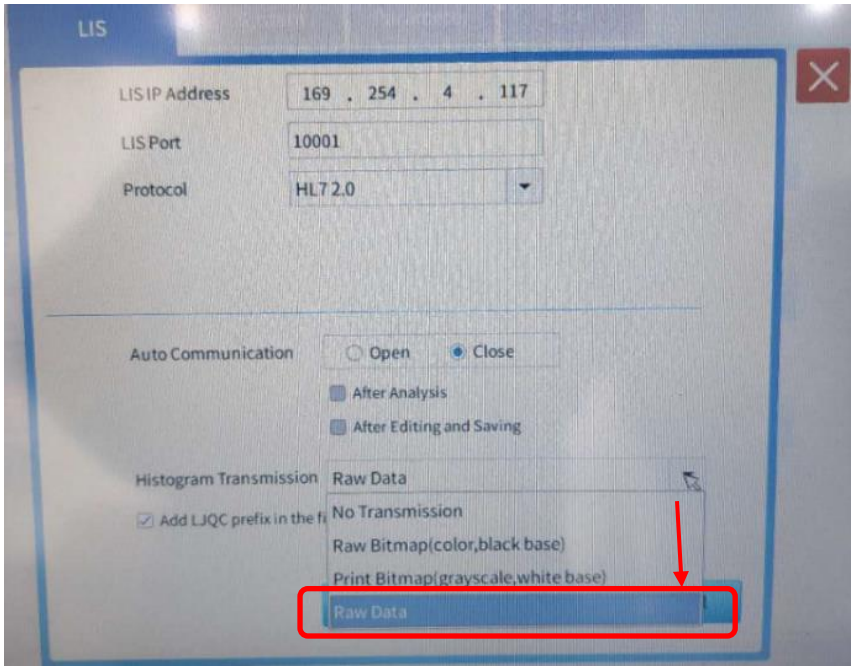


3. For the rest patient information, it is the same way to set up the shortcut select box for them.

Part 9: Colored histogram and scatter gram printing

1. Setting in LIS interface of machine.

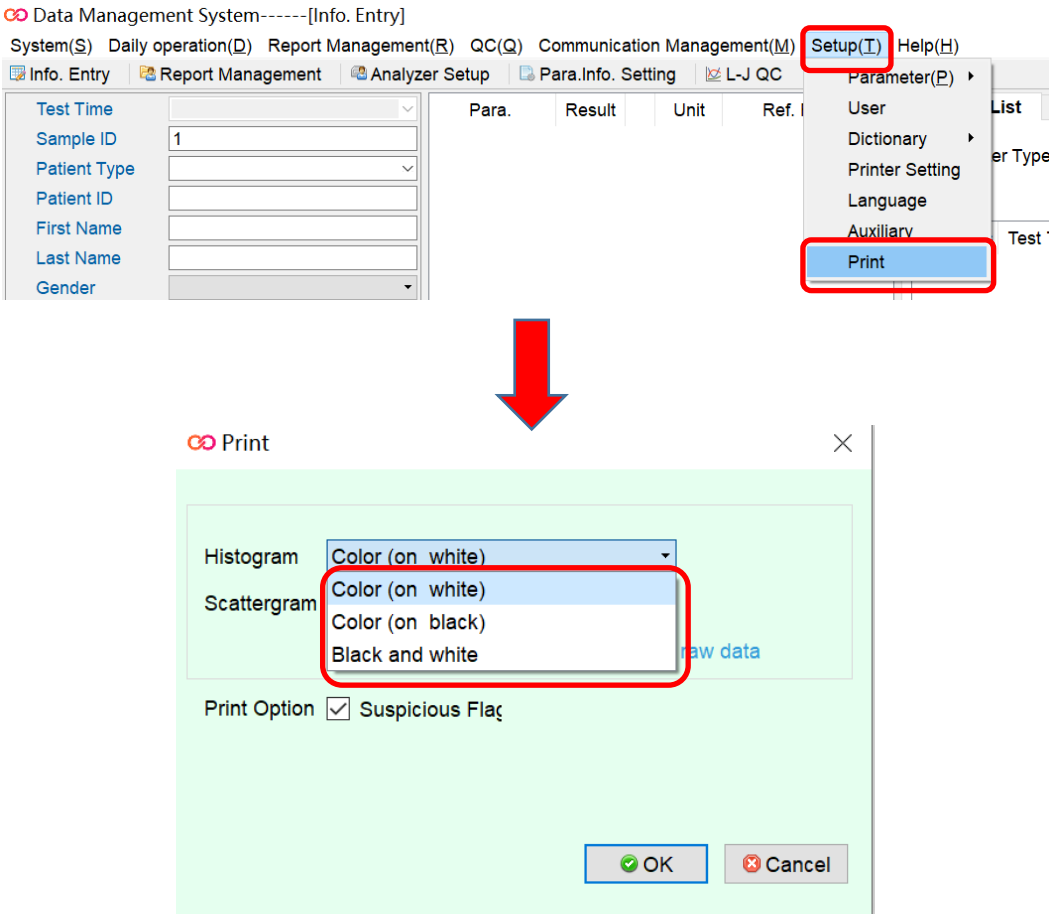
   1.1. Select Raw Data in transmission setting box.



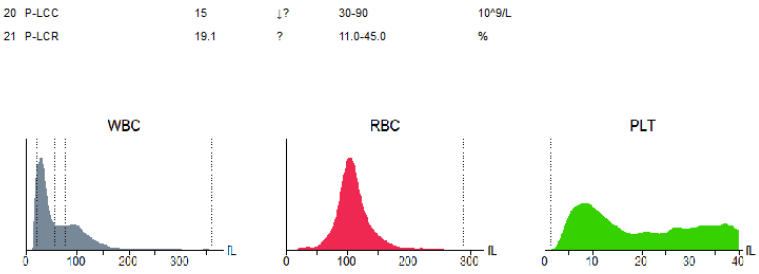
   1.2. After this setting, transmit new sample test result to data management software.

2. Setting in data management software.

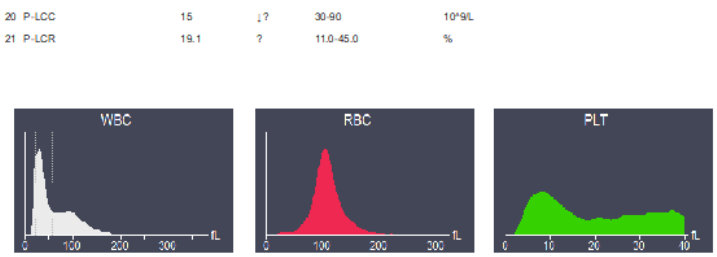
   2.1. Go to Setup➔print, select the histogram to color on white (background) or color on black (background). The rest one black and white option means black scale on white background.



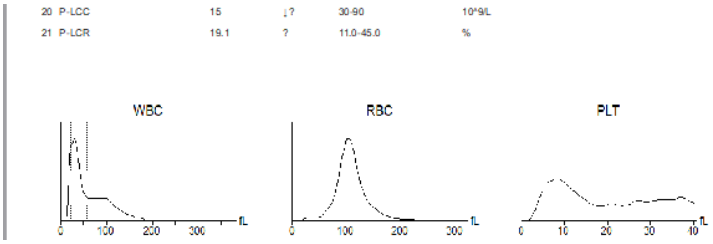
2.2. Check it by preview the data (please refer to part 7 how to preview). Grapg 1 to graph 3 showed the difference.



Graph 1: Color on white background



Graph 2: Color on black background

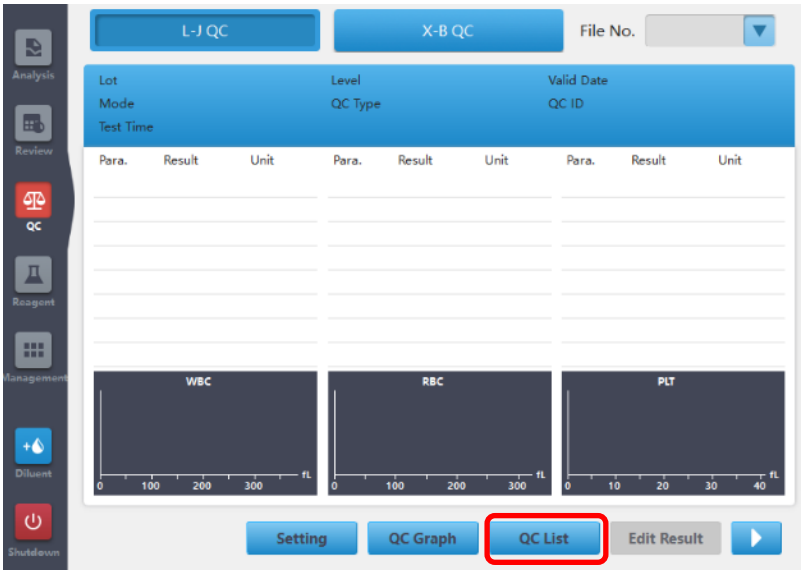


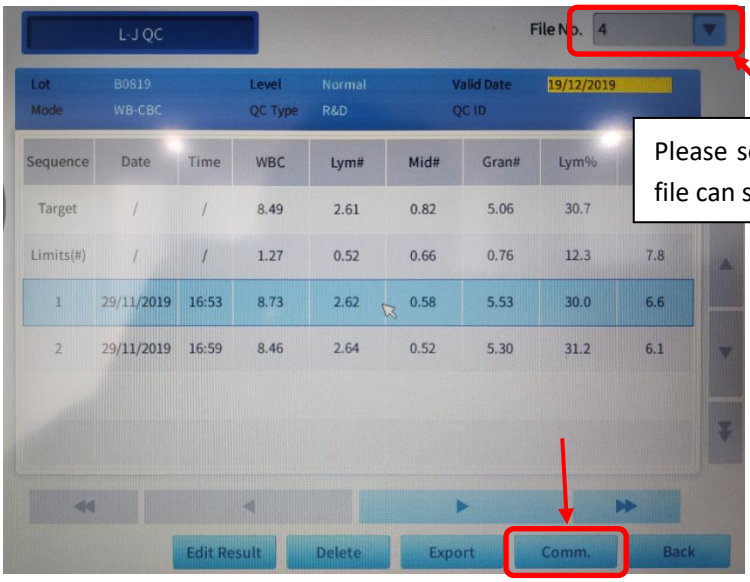
Graph 3: black (scale) on white background

Part 10: L-J QC print.

1. Operation on machine: Transmit the QC test result data to data management software

1.1 Go to QC➔QC list , then select the test result that need to be transmitted, click **Comm.**

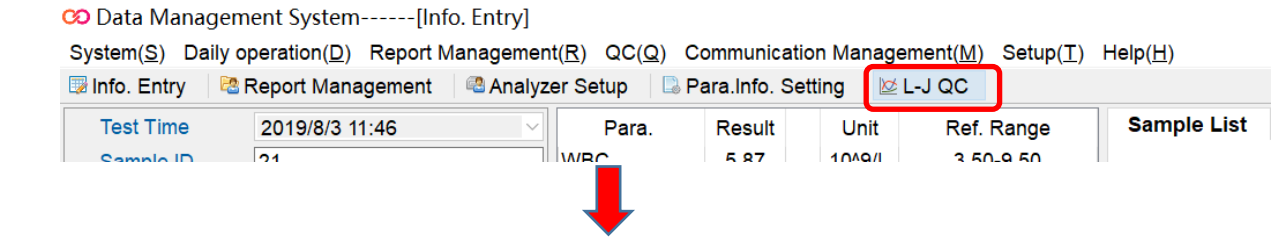


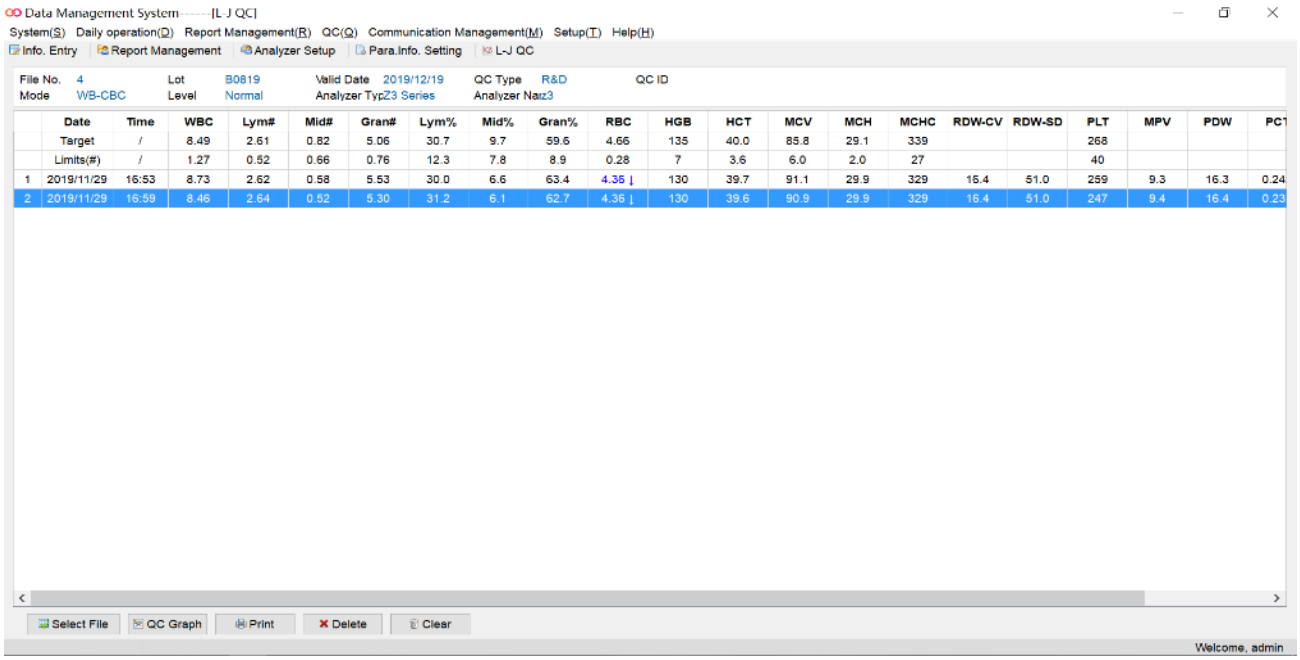


Please select the file NO. firstly. Every file can store 200 qc results.

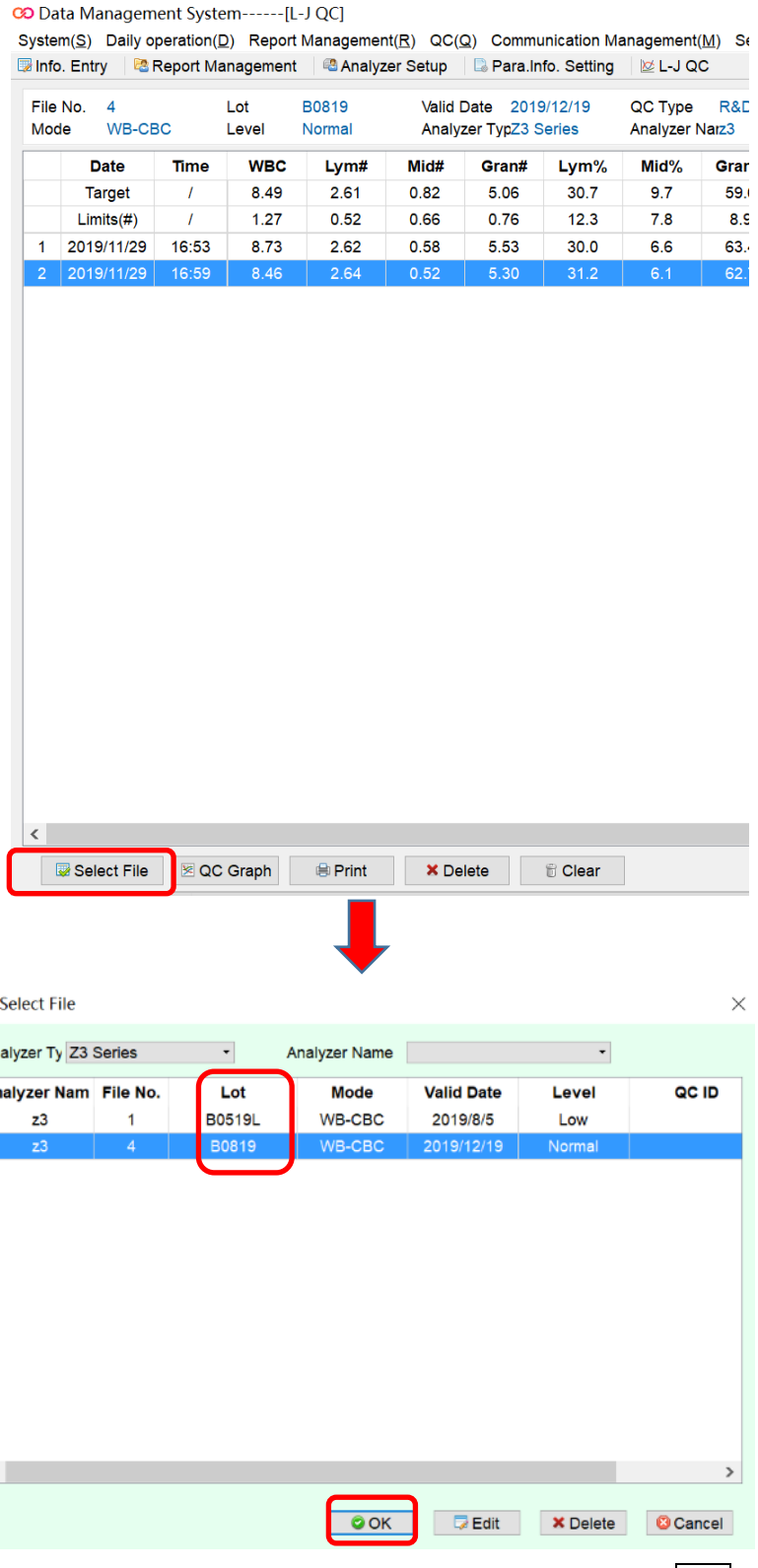
2. Operation on data management software.

2.1 Click L-J QC.

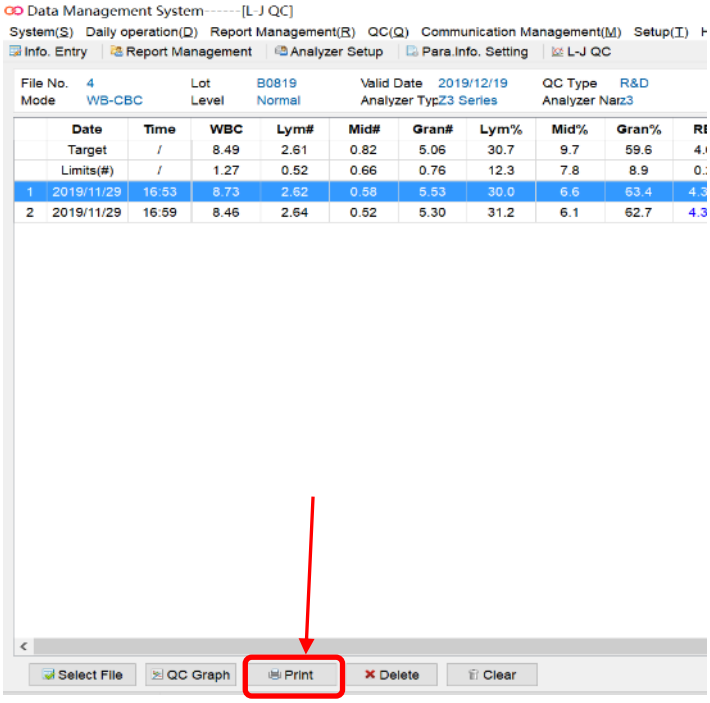




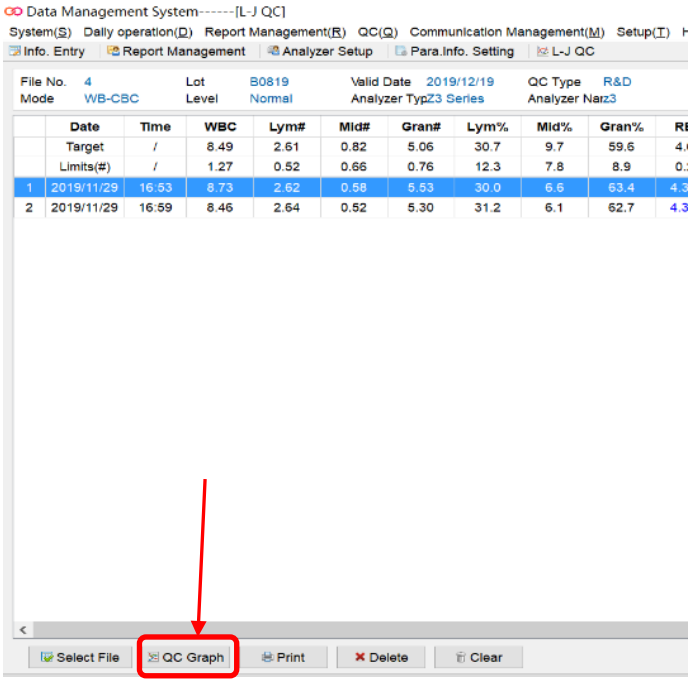
2.2 Select the QC file according to the file Lot number (one QC file can store 200 qc test results)

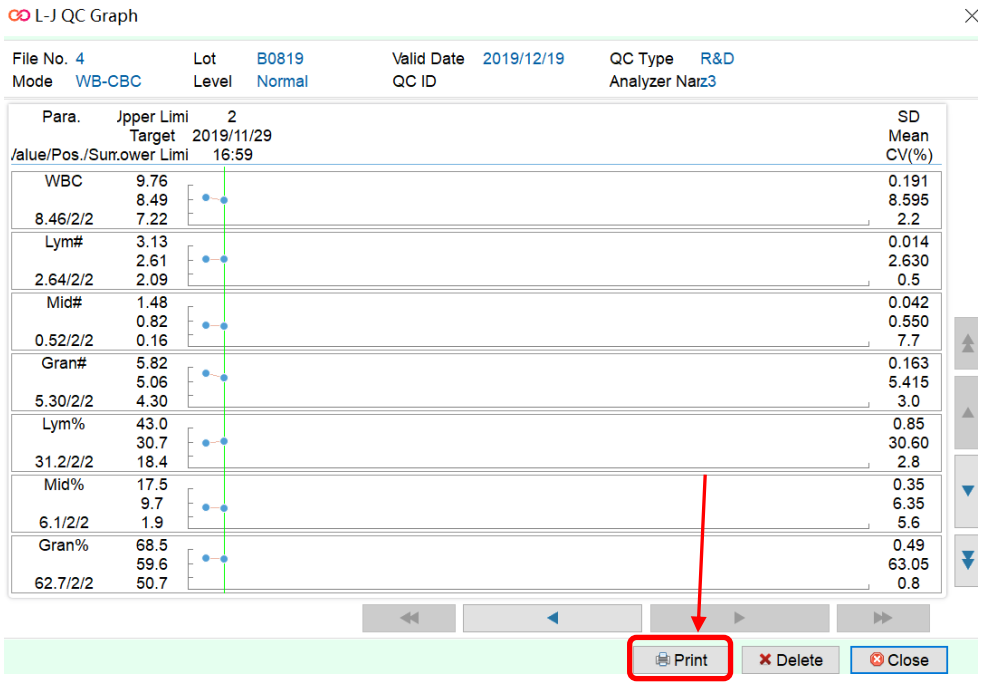


2.3 Then print one of QC result which been stored in this QC file by click the print button.

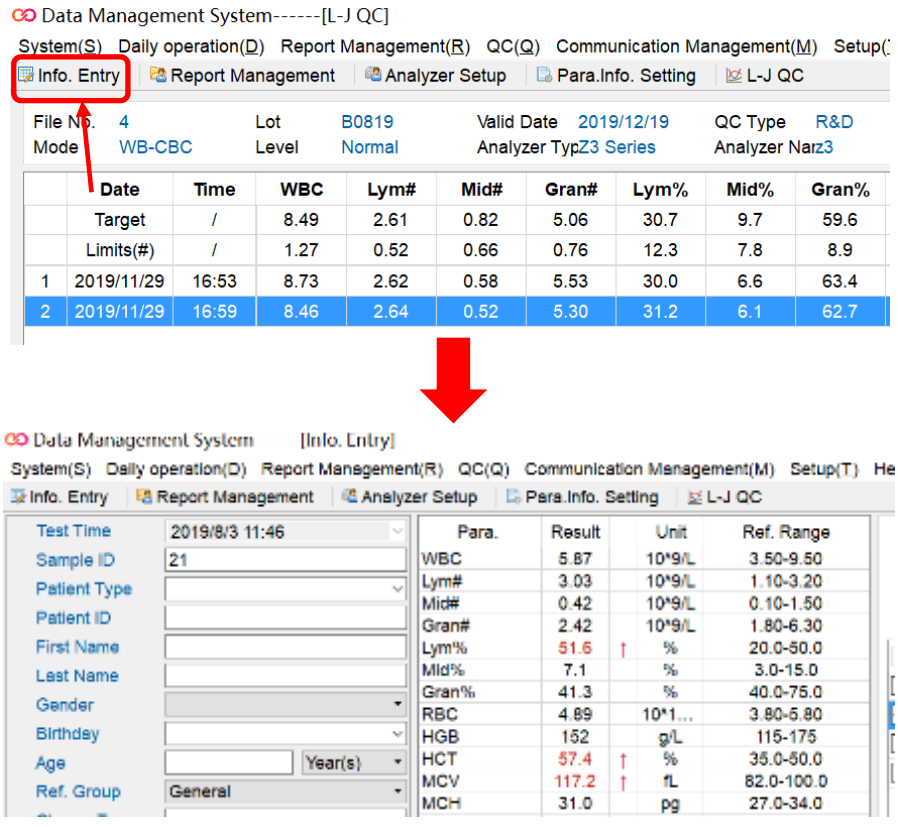


2.4 Click QC graph to check the quality control test dot graph. Printing also available for this graph.





2.5 After QC printing, click Info Entry to get back to sample report interface.



	Date	Time	WBC	Lym#	Mid#	Gran#	Lym%	Mid%	Gran%
	Target	/	8.49	2.61	0.82	5.06	30.7	9.7	59.6
	Limits(#)	/	1.27	0.52	0.66	0.76	12.3	7.8	8.9
1	2019/11/29	16:53	8.73	2.62	0.58	5.53	30.0	6.6	63.4
2	2019/11/29	16:59	8.46	2.64	0.52	5.30	31.2	6.1	62.7

Para.	Result	Unit	Ref. Range
WBC	5.87	10^9/L	3.50-9.50
Lym#	3.03	10^9/L	1.10-3.20
Mid#	0.42	10^9/L	0.10-1.50
Gran#	2.42	10^9/L	1.80-6.30
Lym%	51.6 ↑	%	20.0-50.0
Mid%	7.1	%	3.0-15.0
Gran%	41.3	%	40.0-75.0
RBC	4.89	10^1...	3.80-5.80
HGB	152	g/L	115-175
HCT	57.4 ↑	%	35.0-50.0
MCV	117.2 ↑	fL	82.0-100.0
MCH	31.0	pg	27.0-34.0