

Target

How to identify and deal with potential mixed sample results on cobas e601 if the two alarms below occur within a short time.

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|--|--|----------------------------|
| | Tip/Cup pick up error (Caution Level) | Alarm 301-0002 or 301-0015 |
| | Abnormal L2-line Movement (S.Stop Level) | Alarm 104-0005 |

1. Identification of the software malfunction

Whenever an Abnormal L2-line Movement 104-000005 (S.Stop Level) is issued by the system, check whether Tip/Cup pick up error 301-000002 and / or 301-000015 (Caution Level) is issued in advance shortly, by the Alarm screen and Daily Alarm Trace.

1. Check Alarm screen and make sure the alarm "104-000005 Abnormal L2-line Movement (S.Stop Level)" occurs.

The screenshot shows the BMSERV Alarm screen. At the top, it says 'Stand By' and 'BMSERV 17/06/14 (Wed) 12:20'. The main area is titled 'Alarm' and contains a table with the following data:

Code	Module	Level	Alarm	Date/Time
104-0005	E1	S. STOP	Abnormal L2-line Movement	17/06/14 11:59
028-0001	Core	Caution	Execute Rack Collect	17/06/14 12:00
402-0317	E1	Caution	Sample Short	17/06/14 11:58
315-0015	E1	Caution	Solid Waste	17/06/14 11:58
301-0015	E1	Caution	Tip/Cup pick up error	17/06/14 11:57
301-0002	E1	Caution	Tip/Cup pick up error	17/06/14 11:57

Below the table is a section titled 'Description and Remedy' for the selected alarm (104-0005). It shows the Code as '104-0005' and the Level as 'S. STOP'. The Description is 'L2-line rack transfer mechanism does not reach at Out-Buffer when L2-line rack transfer mechanism moving from sampling position.' The Remedy section is empty. At the bottom of the screen, there are buttons for 'Delete', 'New Alarm', 'Sound', 'Maint.', and 'Close'. A status bar at the very bottom says 'Select the alarm from the list box.' and has a 'Help' button.

2. Collect the remained racks in the corresponded E170 module.
 - 1 Standalone system:
 - 2-1) Wait until system status turns to Stand-By.
 - 2-2) Perform "Reset or Rack Reset" to collect racks to Unloader.

- I CLAS connected system:
 - 2-1) Stop sending racks from CLAS, then wait until all results for measuring samples output.
 - 2-2) Press "Stop" button to make system status turns to Stand-By.
 - 2-3) Perform "Reset or Rack Reset" to collect racks to Unloader.
- 3. Printout "Daily Alarm Trace" and check the alarm "301-000002 Tip/Cup pick up error" or "301-000015 Tip/Cup pick up error" occurs in short time from the occurrence time of "104-000005 Abnormal L2-line Movement".

06/14 11:59	7	1	E	15-005-0001-000	Rack Supply Complete
06/14 11:59	11	1	E	99-016-0001-000	Restart Disable (All Module)
06/14 11:59	5	1	A	03-104-0005-342	Abnormal L2-line Movement
06/14 11:59	62	1	E	03-007-0001-000	Rack Supply Complete
06/14 11:58	5	1	A	03-402-0317-276	Sample Short
06/14 11:58	5	1	A	03-316-0006-091	Tip/AssayCup Short
06/14 11:58	5	1	A	03-315-0015-091	Solid Waste
06/14 11:57	5	1	A	03-301-0015-315	Tip/Cup pick up error
06/14 11:57	5	1	A	03-301-0002-315	Tip/Cup pick up error
06/14 11:57	6	1	E	15-005-0001-000	Rack Supply Complete
06/14 11:57	43	1	E	99-017-0001-000	Barcode Read Complete
06/14 11:56	10	1	E	99-013-0001-000	Rack Supply Complete
06/14 11:56	6	1	R	15-001-0001-006	Water Reservoir Level Too Low
13/06 13:31	628	1	E	11-502-0000-000	Restart

If two alarms below occur in a short time, the failure could happen.

- I Tip/Cup pick up error (Caution Level)
- I Abnormal L2-line Movement (S.Stop Level)

If you identified that the software failed follow the next procedure!

2. Handling of potential mixed sample results on E170

2.1. Sample Barcode mode

2.1.1. Go to Workplace > Data Review screen, search Sample ID of the samples on the racks collected by performing "Reset or Rack Reset" to Unloader.

Follow 1 through 4 in the Figure 1 below.

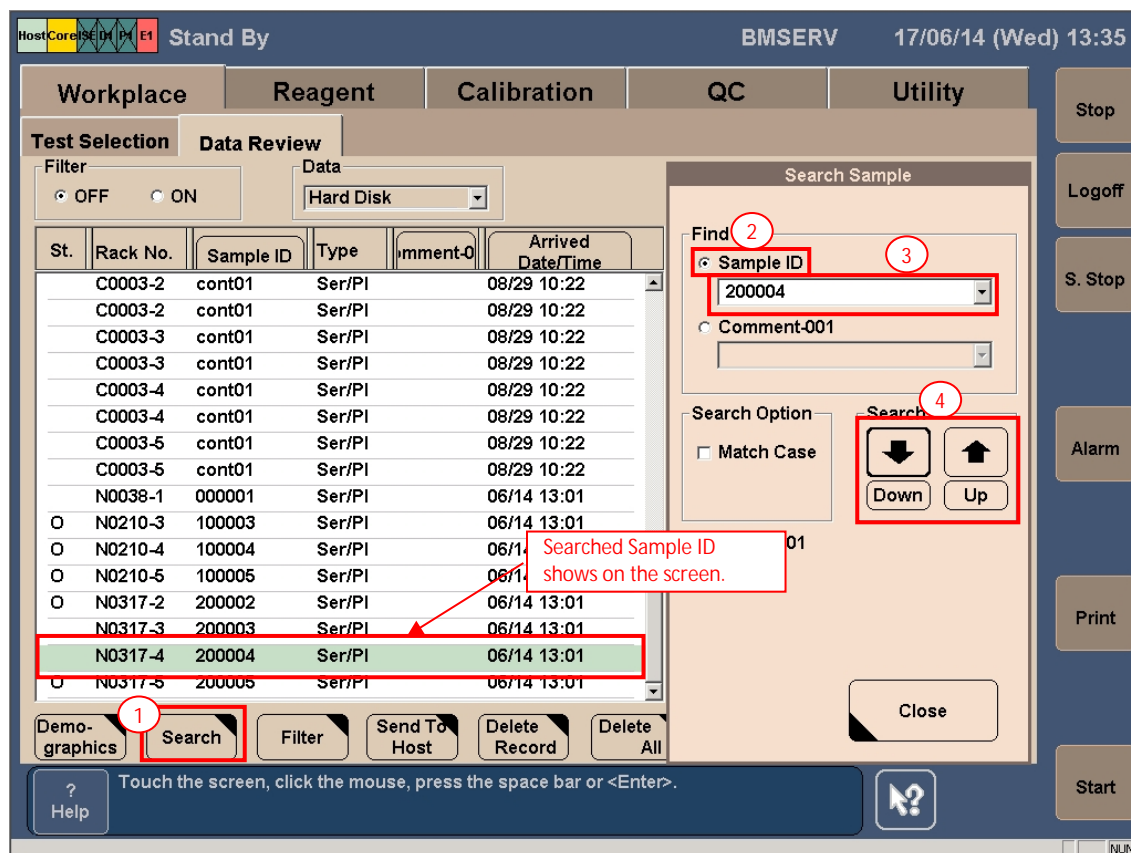


Figure 1. Data Review screen

Comment ended F170 means that the model which has claims "Abolished Localism Movement (O'Garra Level)

2.2. Rack position number mode

2.2.1. Go to Workplace> Data Review screen, search racks collected by performing "Reset or Rack Reset" to Unloader.

Note: If the same rack is repeatedly using, the newest "Date/Time" is the latest used.

Host: CoreSE01 E1 Stand By BMSERV 17/06/14 (Wed) 12 21

Workplace Reagent Calibration QC Utility

Test Selection Data Review

Filter: OFF ON Data: Hard Disk Sample Count: 159

St.	S. No.	Rack	Sample	Type	nment-	Arrived Date/Time	Test	1st	Rerun
O	N000166	N		Ser/PI			TOXIGG	4.00	¥
O	N000167	N0317-2		Ser/PI		06/14 10:39			
	N000168	N0317-3		Ser/PI		06/14 10:39			
O	N000169	N0317-4		Ser/PI		06/14 10:39			
	N000170	N0317-5		Ser/PI		06/14 10:39			
	N000171	N0038-1		Ser/PI		06/14 11:55			
O	N000176	N		Ser/PI					
O	N000177	N		Ser/PI					
	N000178	N0210-3		Ser/PI		06/14 11:56			
O	N000179	N0210-4		Ser/PI		06/14 11:56			
	N000180	N0210-5		Ser/PI		06/14 11:56			
O	N000181	N		Ser/PI					
O	N000182	N0317-2		Ser/PI		06/14 11:56			
	N000183	N0317-3		Ser/PI		06/14 11:56			
	N000184	N0317-4		Ser/PI		06/14 11:56			
O	N000185	N0317-5		Ser/PI		06/14 11:56			

Demo-graphics Search Filter Send To Host Delete Record Delete All Backup Data Test Review Reaction Monitor

? Help Select the sample from the list box. ? NUM

Stop Logoff S. Stop Alarm Print Start

Figure 3. Data Review screen

