



datainnovations.com

Laboratory Intelligence

Instant access to timely, actionable performance metrics...

CONNECTIVITY



Connectivity

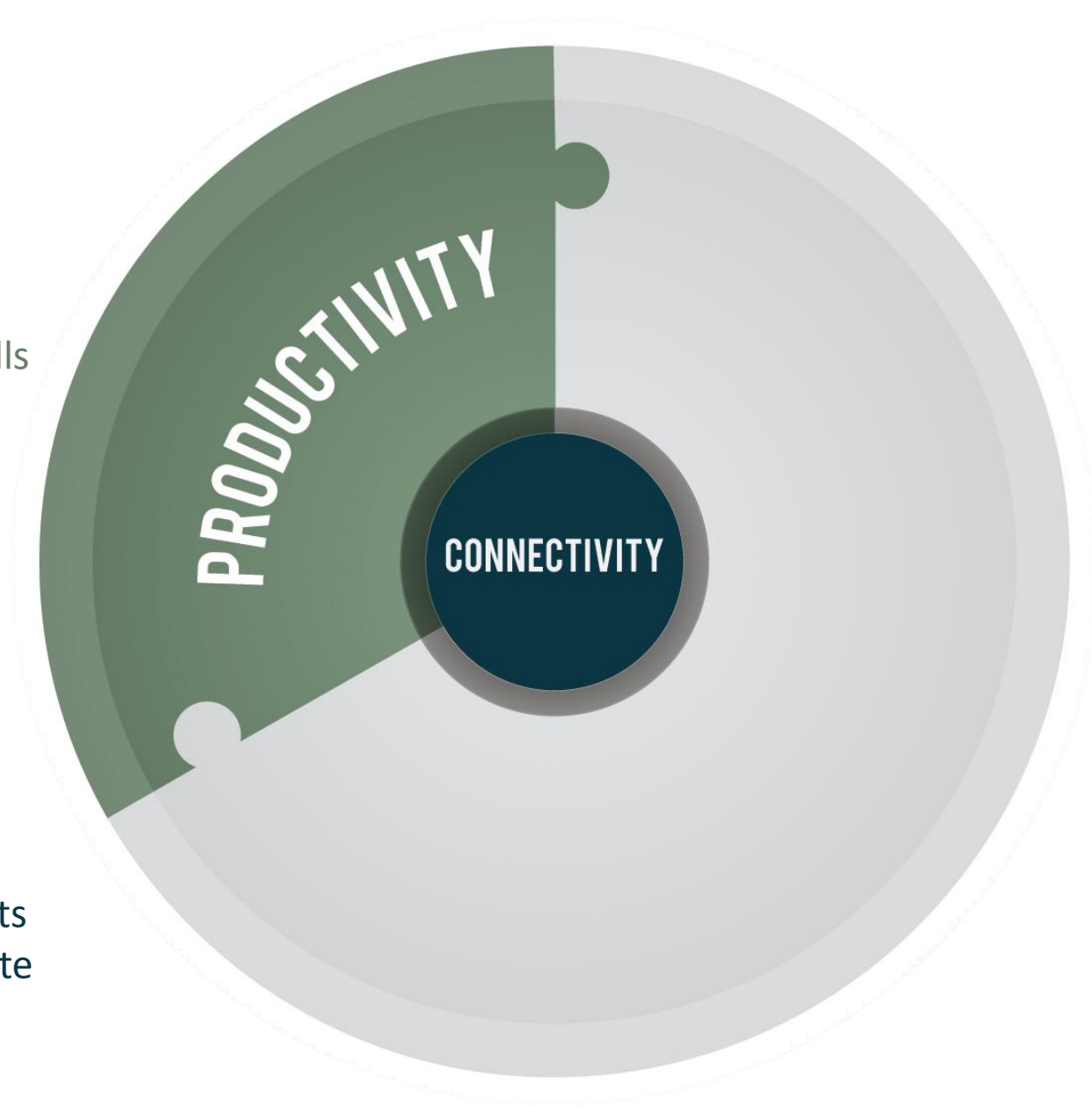
- 900+ Driver Library
- Support 200+ Instruments
- Multi-Discipline, Multi-site
- Multi-LIS support

Productivity

- Autoverification
- Discipline Specific Workcells
- Specimen Tracking
- LIS Backup

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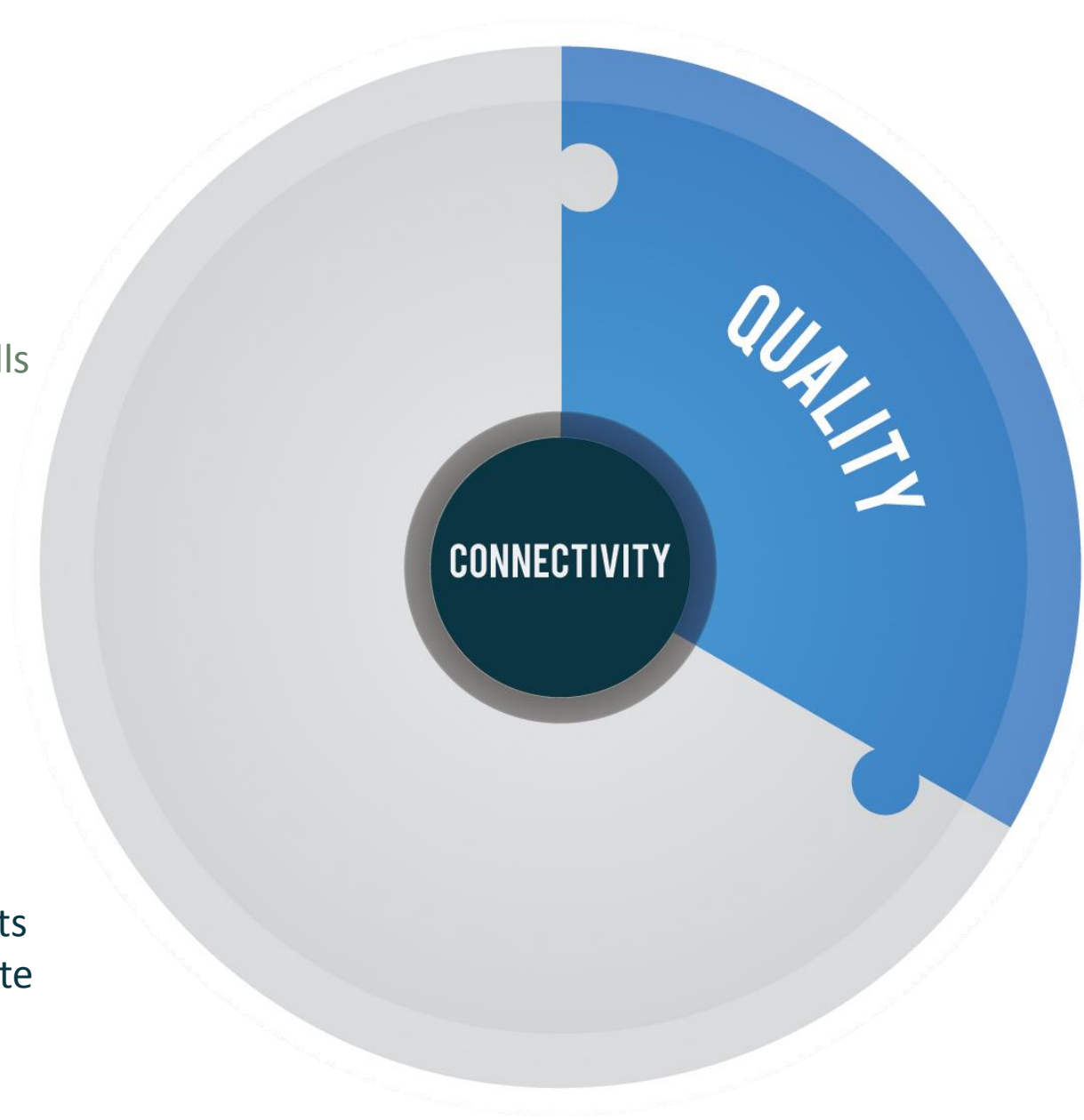


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Quality

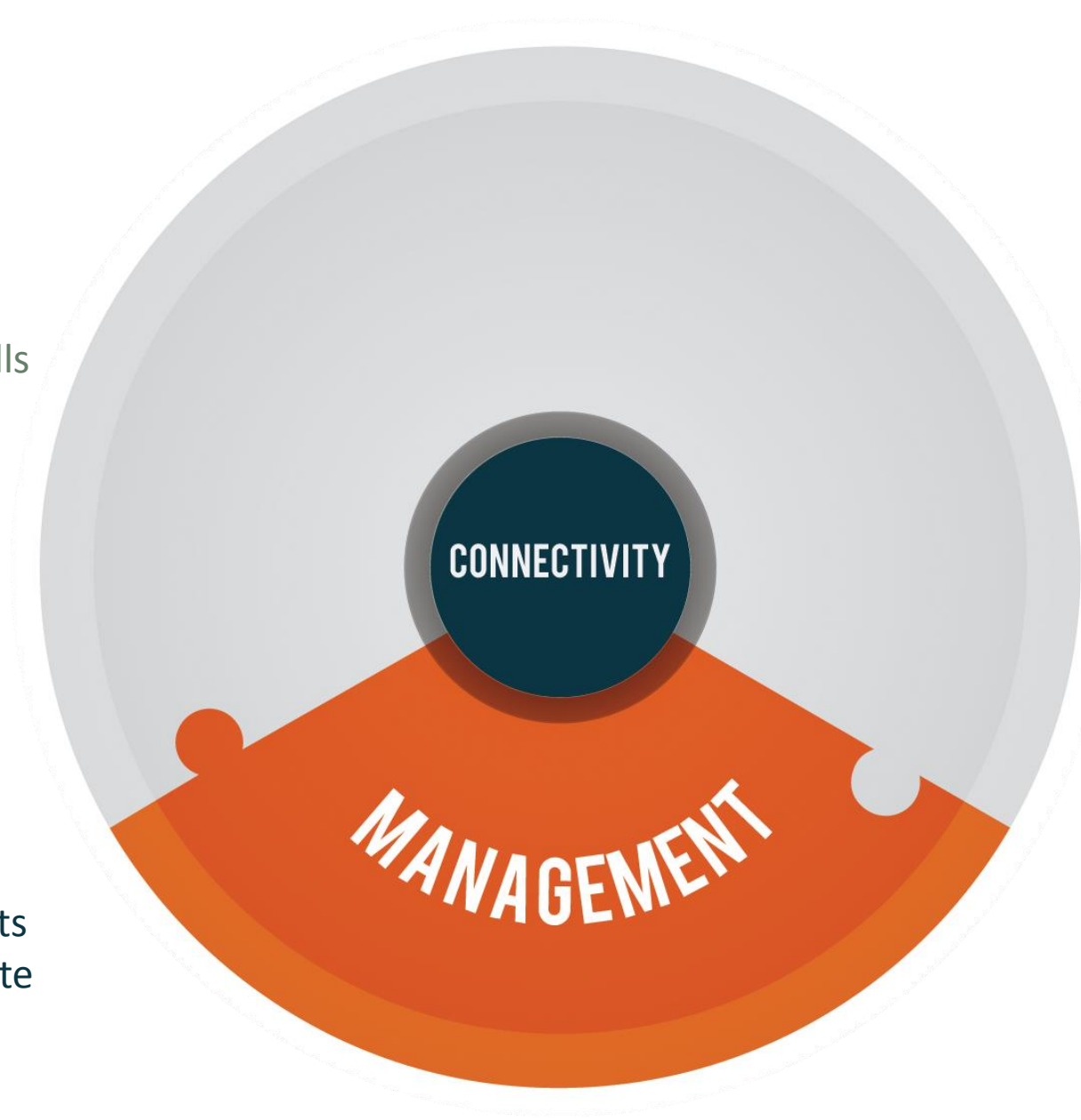
- Integrated Quality Control
- Moving Averages
- Integrated Quality Assurance
- Laboratory Maintenance
- PT Reporting

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Management

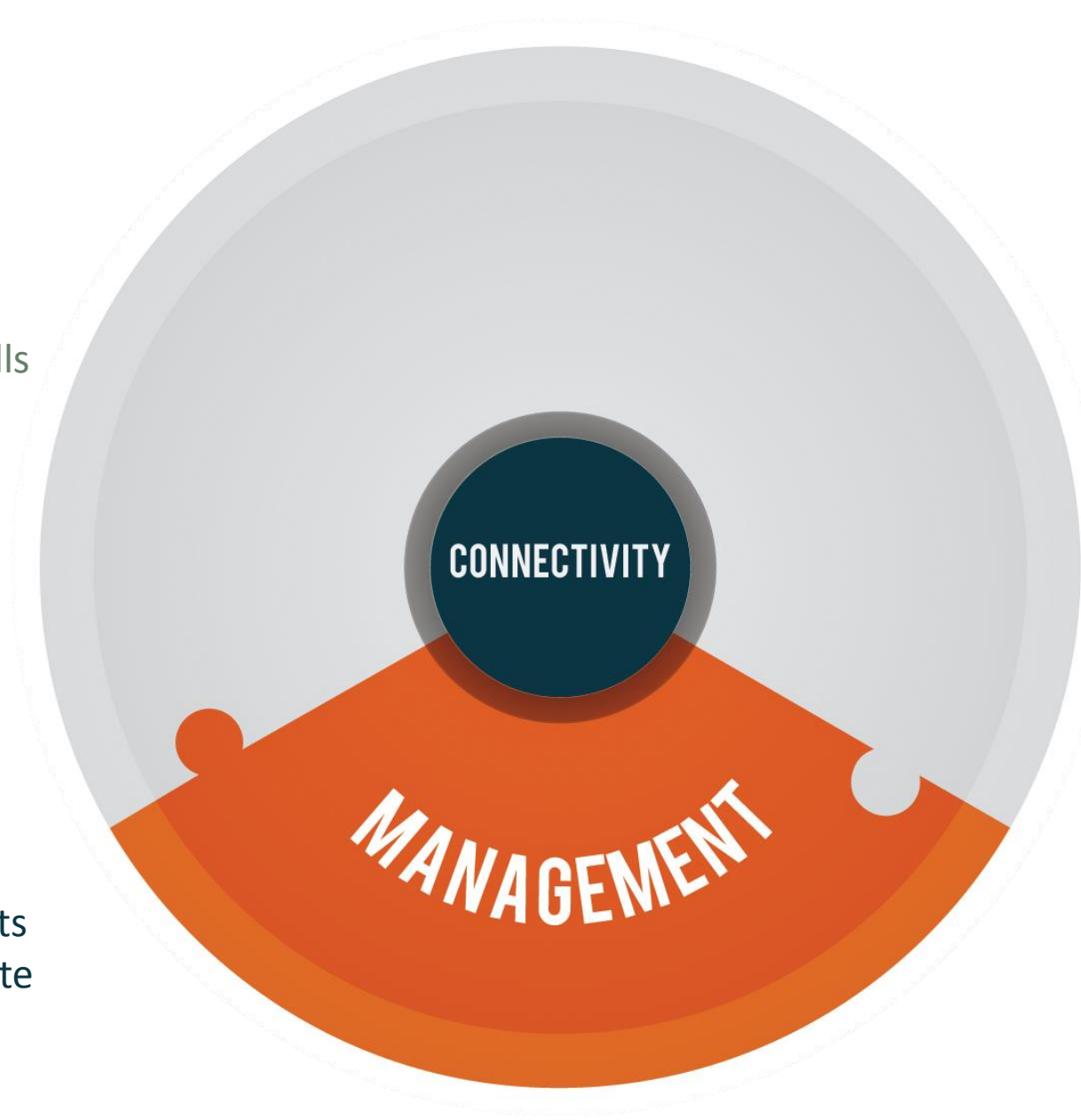
- Data Mining
- Data Collection
- **Laboratory Analytics**

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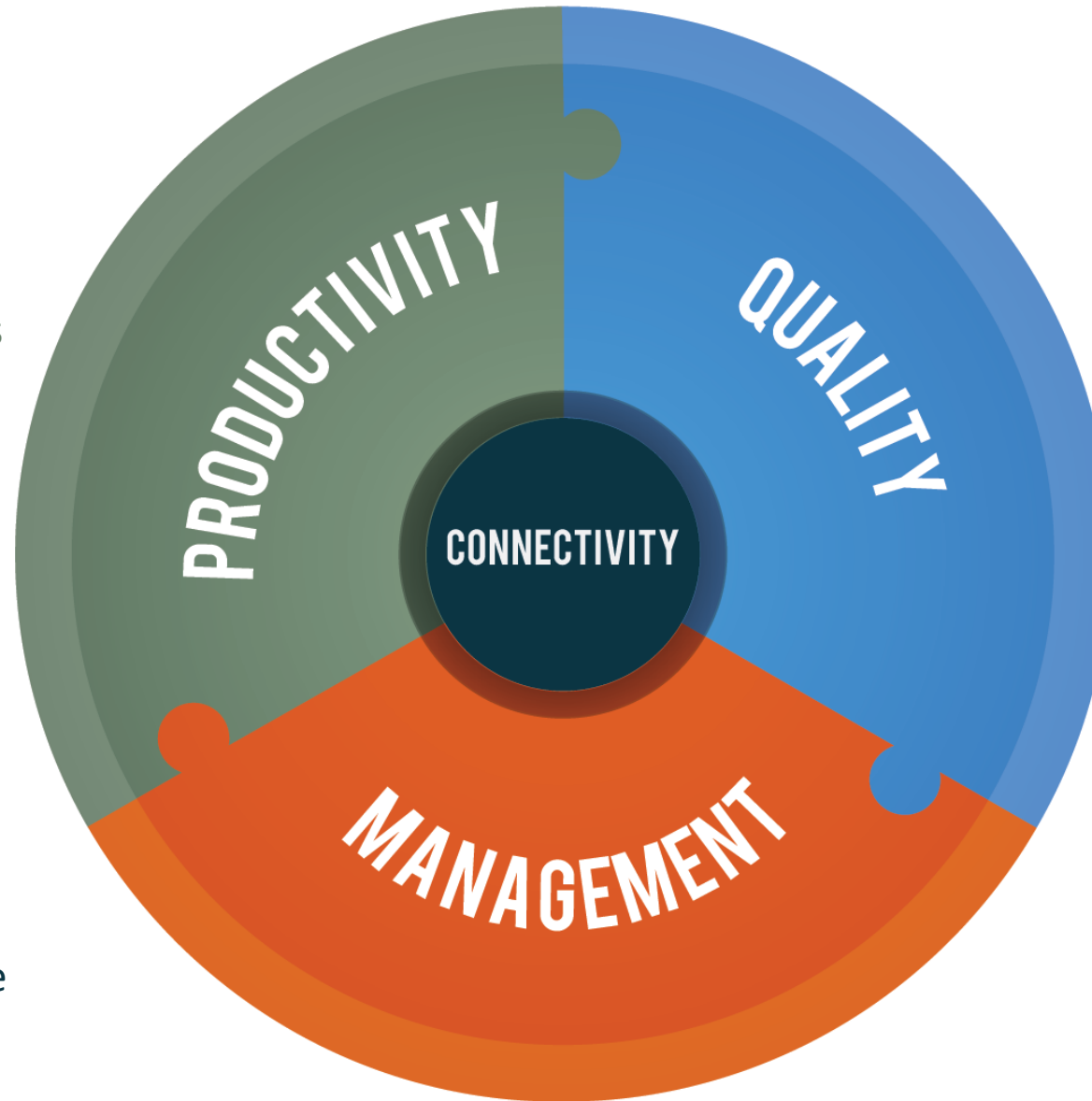
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- **Laboratory Intelligence**

Laboratories are starving for critical analytics

Am I delivering what and when I am suppose to? How do I know?

- Delivering accurate, actionable, timely healthcare information?
 - How timely?
 - How efficient?
 - How accurate?
- Performance Management and Reporting
 - Stakeholders
 - Senior Management / Board / Physician-practices
 - Service Level Agreements
 - Laboratory Team

Critical insight for laboratory operations

Have I fully optimized my current resources? How do I optimize and monitor?

- Optimizing existing resources and equipment
 - Labor is scarce
 - Testing going up / reimbursement down
 - H.R.4302 - Protecting Access to Medicare Act of 2014
 - 5,000 specimens a day / \$2 less an accession than 2 years ago
 - Existing instruments / workflow optimized
 - What are the capacities (people / equipment)
 - What arrival times, test mix, volume by shift
 - Utilization of instruments
 - How effective are my middleware / automation systems

Laboratories are starving for critical analytics

Is additional business a good thing? Can I take on additional business? New tests?

- Future Planning
 - Limited Capital
- Business Development
 - New or incremental business
 - Is there capacity
 - What does the incremental business cost
- Bringing additional testing and revenue in-house
 - Or do I continue to send out tests?

Business Analytics for the My Laboratory

What information to need? How complete is it? How easy is it to get?

- What information could you use...
 - ... that would help me make more informed decisions?
 - ... demonstrate the value and performance we provide?
 - ...to help optimizing what I have?
 - ... for long term business planning?
- Where can I get that information?
- How easy is it to get that information?
- How frequently do I want that information?

What is Laboratory Intelligence?

- Critical business analytics for your Laboratory
- Natural adjacency to our current product
 - Leveraging the information-rich middleware (Instrument Manager)
- Instant access to timely, actionable performance metrics for your lab
 - Browser based
 - Real Time
 - Information for your specific business decisions
 - Measuring your performance definitions for success
 - Uniquely for your laboratory

Key Performance Indicators (KPI's)

Defining quantifiable measures to evaluate the success of a particular activity

- User-defined Key Performance Indicators
 - 15 predefined to provide a starting point
 - Enhance or Create unlimited KPI's
 - Create 'focused' collection of KPI's on Dashboards
- Whole institution
 - Any instrument, automation system interfaced through Instrument Manager
 - Unique data set from Instrument Manager
 - Aware by site, discipline, instrument, shift, specimen type, priority, test, ward, physician....

Enhance or Create your KPI's

IM System Configuration Diagnostics Security Specimen Management SSR DC SR MM MA Laboratory Intelligence Reports Window Help

Menu Home | About | Help | Logout DeepSee > Analyzer

IMTestCube

Server: changewin7v1vm Namespace: IM Switch
User: IM_ADMIN Licensed to: Data Innovations, LLC Instance: CACHE

DeepSee
by InterSystems

View:

New Open Save Save As Delete ☒ Auto-execute

Analyzer

IMTestCube

Dimensions

Measures

- Test Count
- Collection to Received
- Received to Result
- Result to Released
- Collection to Released
- TAT5
- TAT6
- TAT7
- TAT8
- TAT9
- TAT10
- TAT11
- TAT12
- TAT13
- TAT14
- TAT15
- TAT16
- TAT17
- TAT18
- TAT19
- TAT20
- Test Quality Indicator 1 Count
- Test Quality Indicator 1 Percer
- Test Quality Indicator 2 Count
- Test Quality Indicator 2 Percer
- Test Quality Indicator 3 Count
- Test Quality Indicator 3 Percer
- Test Quality Indicator 4 Count

Rows

TAT18

Drop row here

Columns

Drop column here

Measures

TAT5

Collection to Received

Collection to Released

Drop measure here

Filters

Drop filter here

TAT5	Collection to Received	Collection to Released
TAT18		
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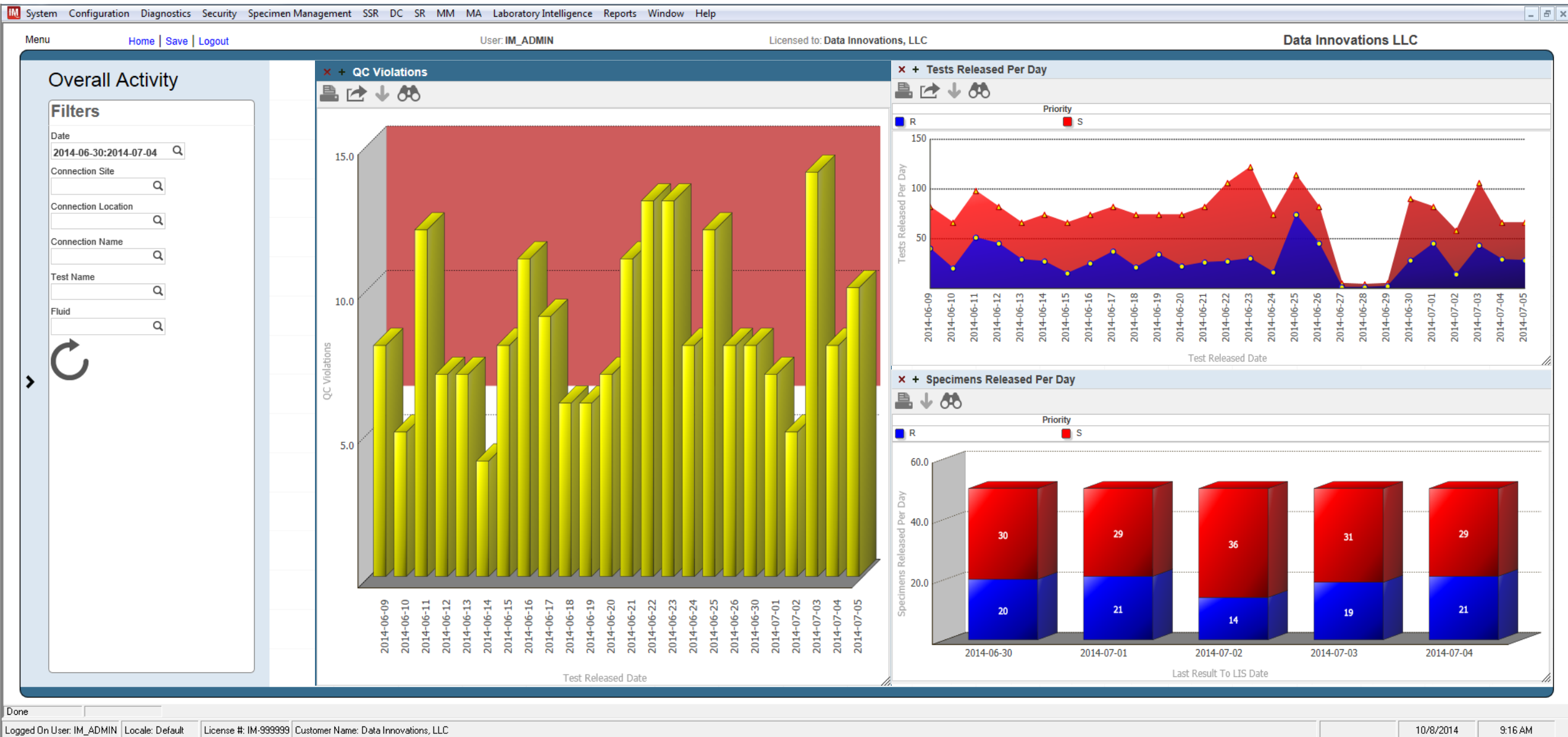
Customer Name: Data Innovations, LLC

10/8/2014

9:07 AM

data





Overall Activity

Filters

Date

2014-06-30:2014-07-04

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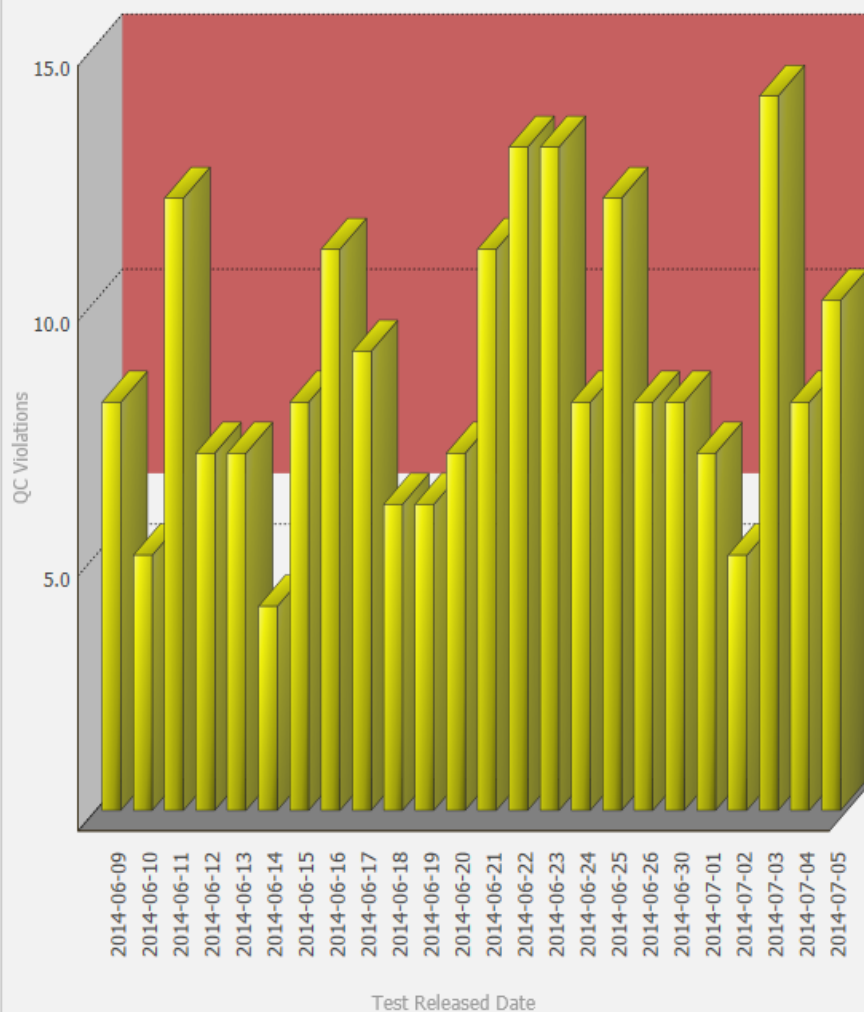
Connection Location

Chemistry

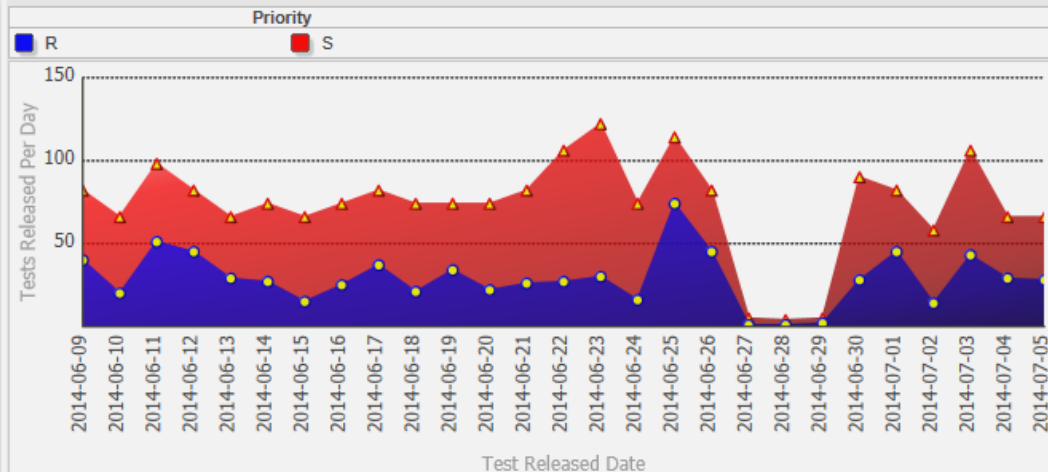
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☐ All ☐ Exclude ☐ Range☐ (NULL)☒ Chemistry☐ Hematology☐ Hemostasis☐ System

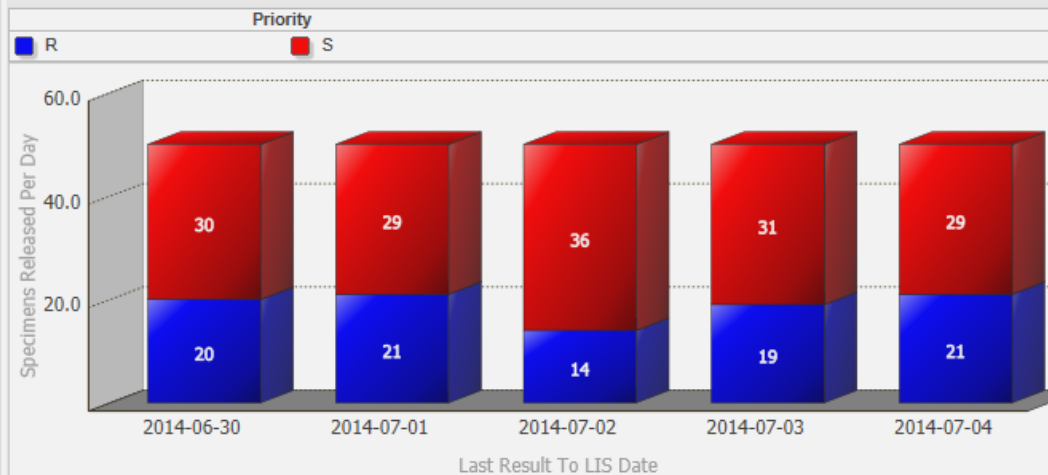
x + QC Violations



x + Tests Released Per Day



x + Specimens Released Per Day



Done

Logged On User: IM_ADMIN | Locale: Default | License #: IM-999999 | Customer Name: Data Innovations, LLC

8/12/2014

10:21 PM

Overall Activity

Filters

Date

2014-06-30:2014-07-04

Connection Site

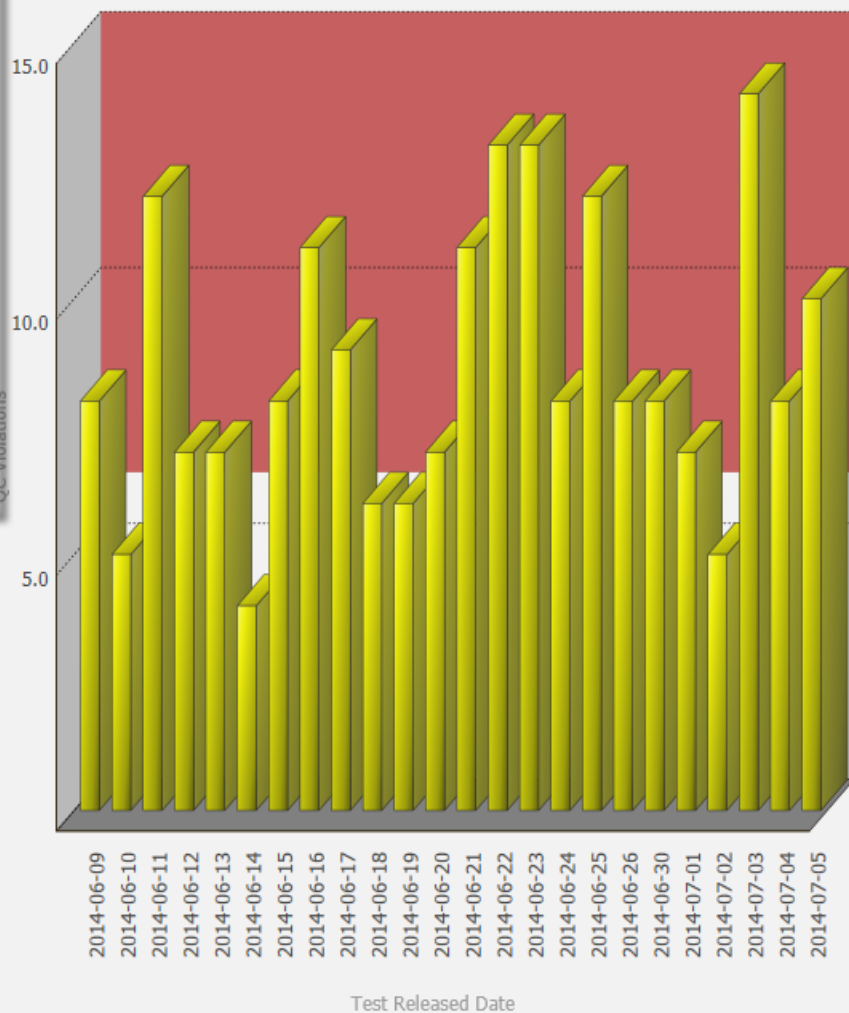
Connection Location

Chemistry

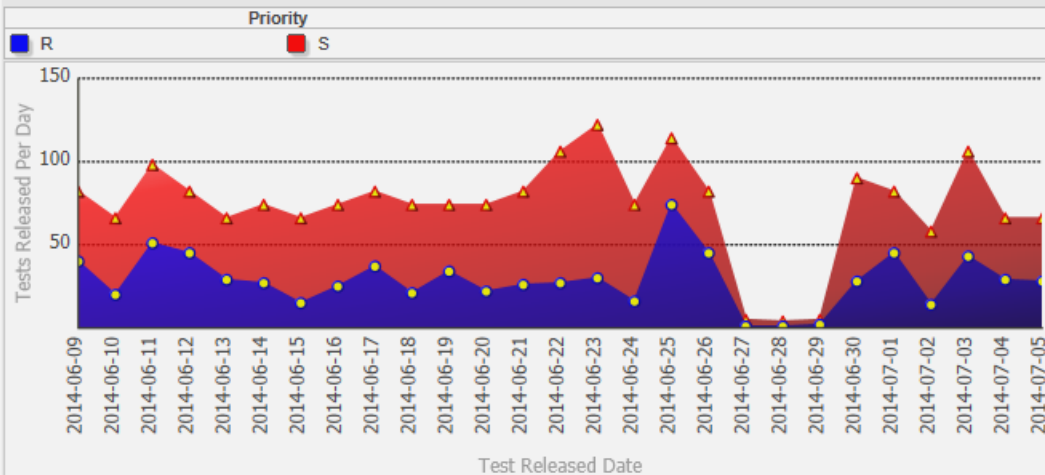
Search

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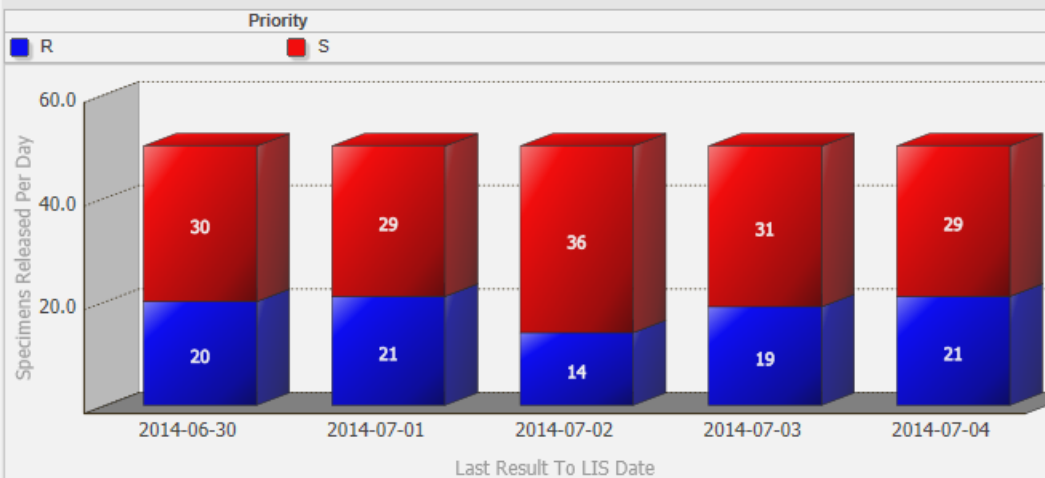
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Done

Logged On User: IM_ADMIN | Locale: Default | License #: IM-999999 | Customer Name: Data Innovations, LLC

8/12/2014

10:21 PM

Overall Activity

Filters

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2014-06-30:2014-07-04

Connection Site

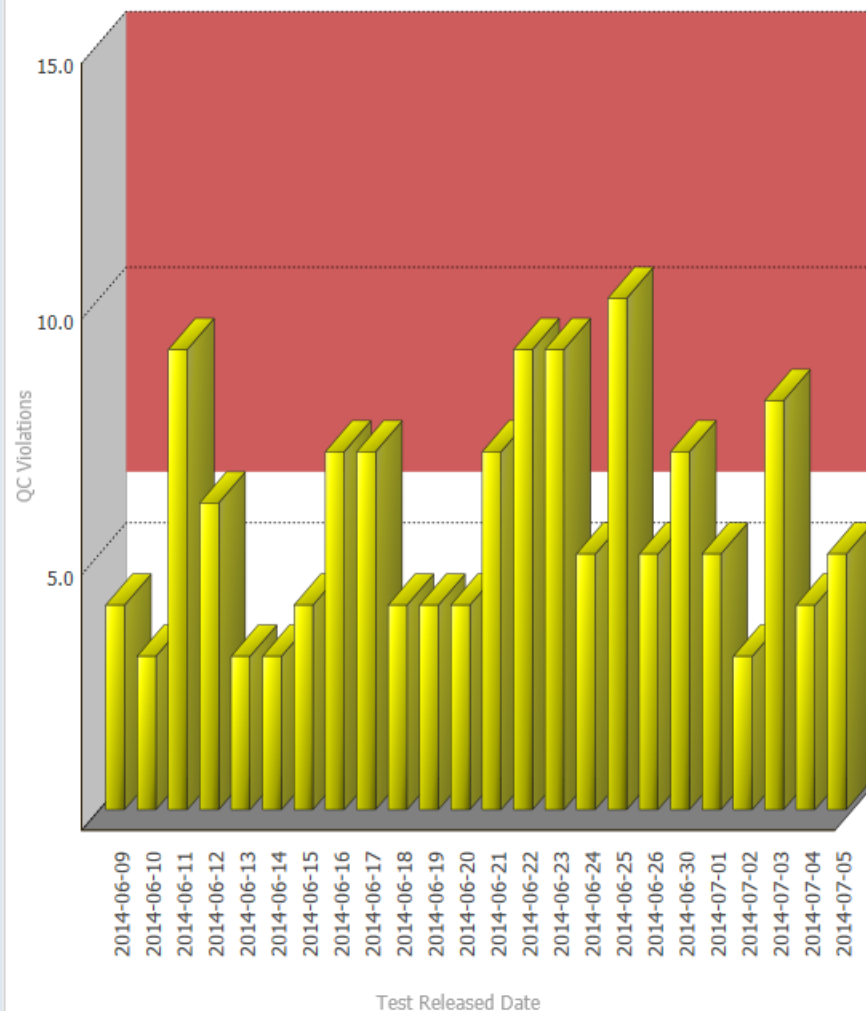
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Chemistry

Connection Name

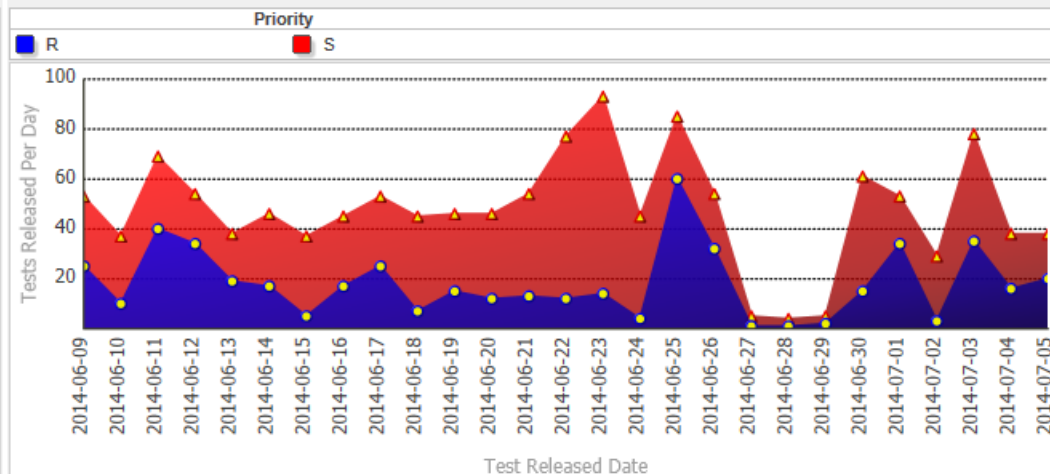
Test Name

Fluid

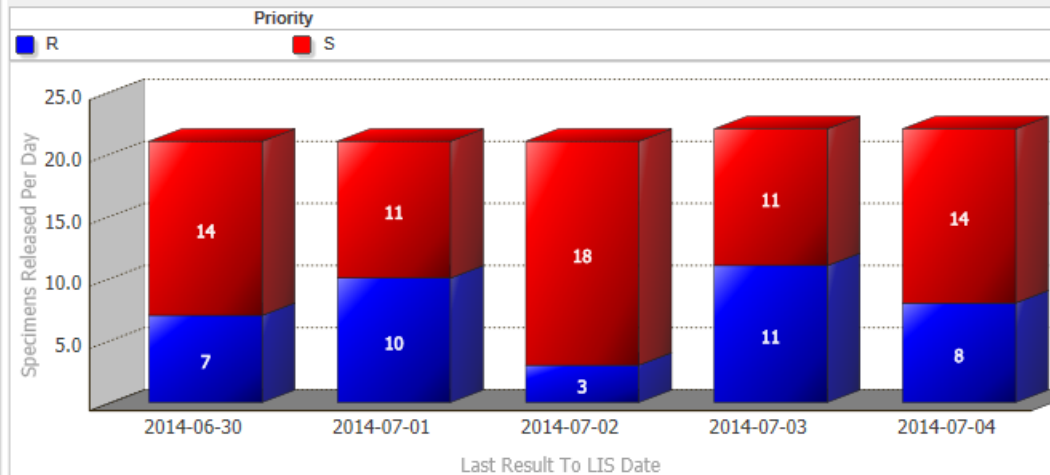
QC Violations



Tests Released Per Day



Specimens Released Per Day



Menu

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Overall Activity

Filters

Date
2014-06-30:2014-07-04

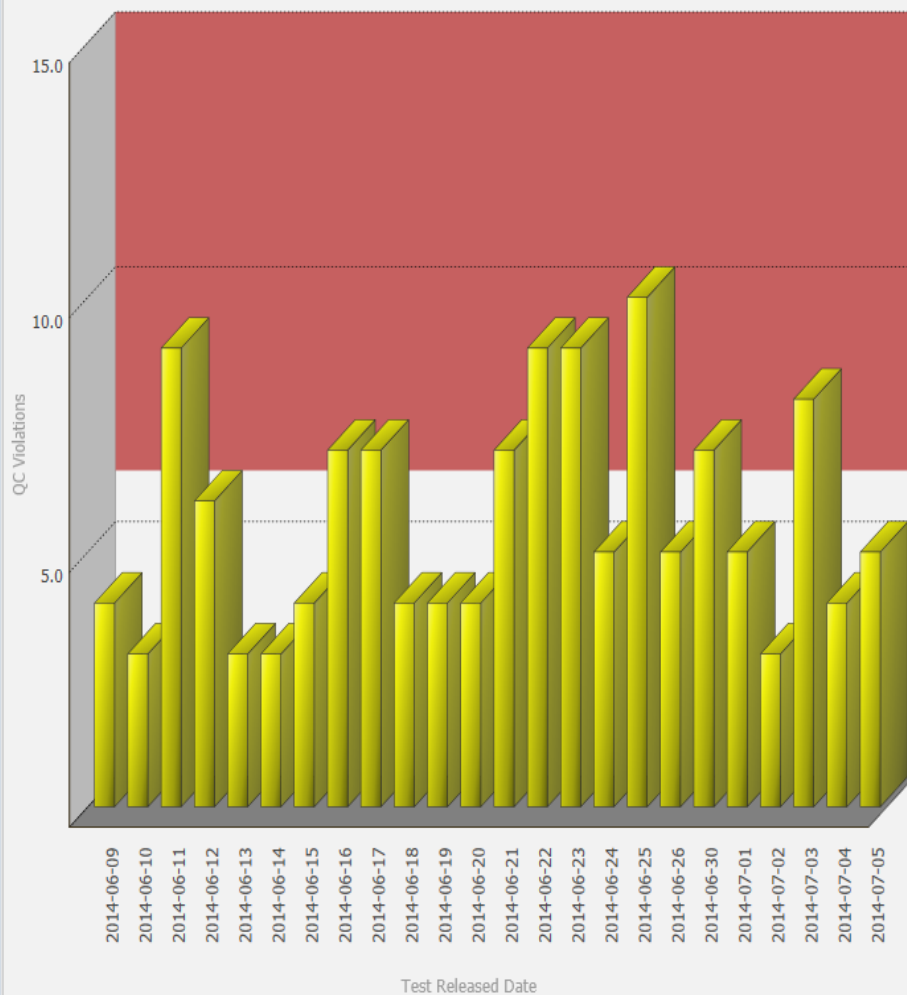
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Connection Location
Chemistry

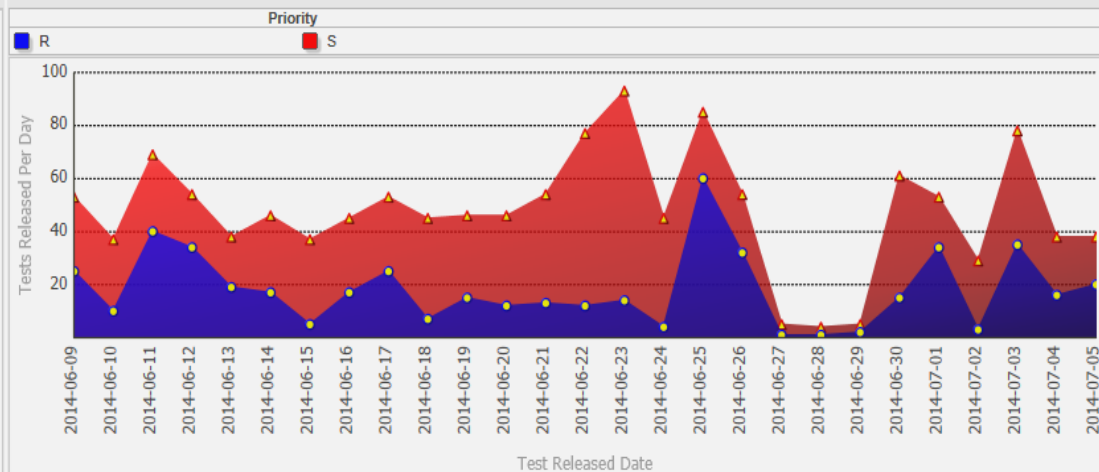
Connection Name
Q

Search
☒ All ☐ Exclude ☐ Range
☐ Chem Inst 01
☐ Chem Inst 02
☐ Chem Inst 03

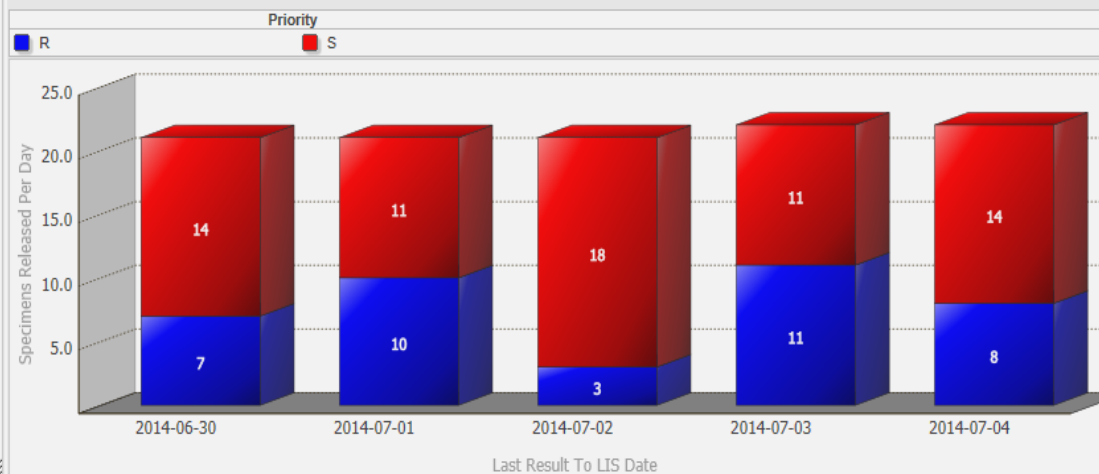
QC Violations



Tests Released Per Day



Specimens Released Per Day



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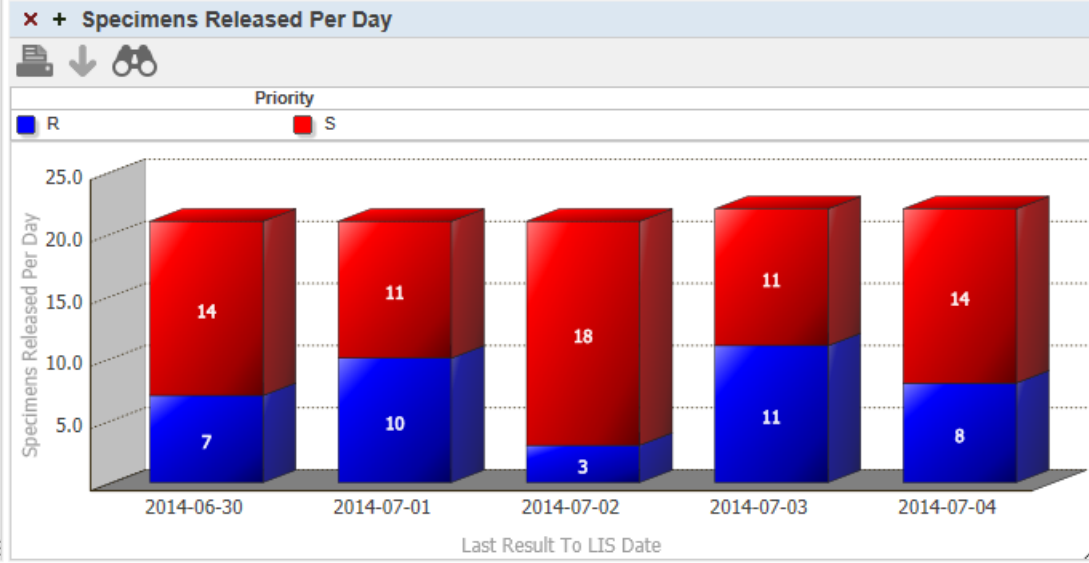
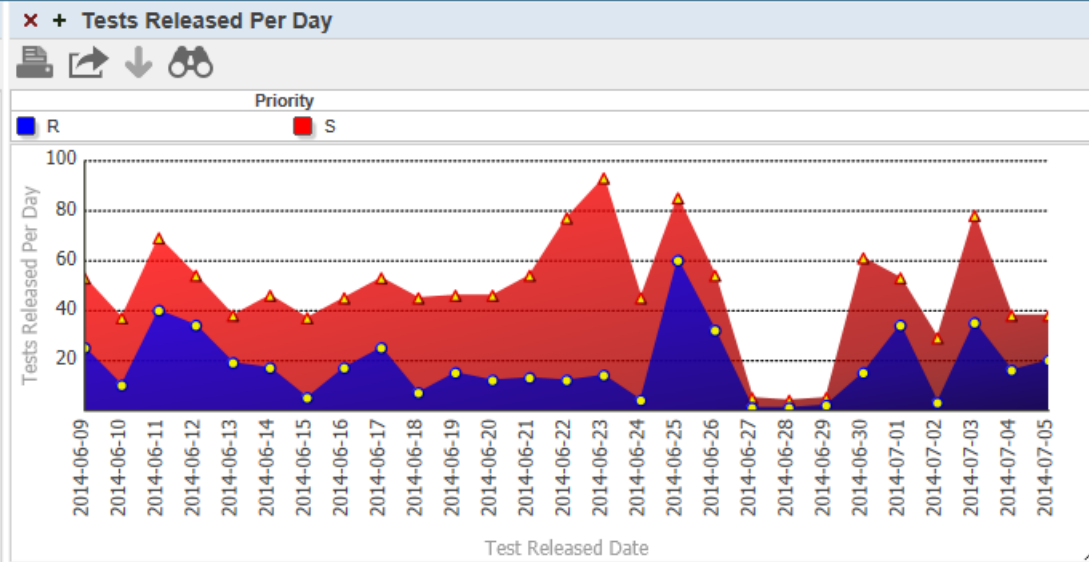
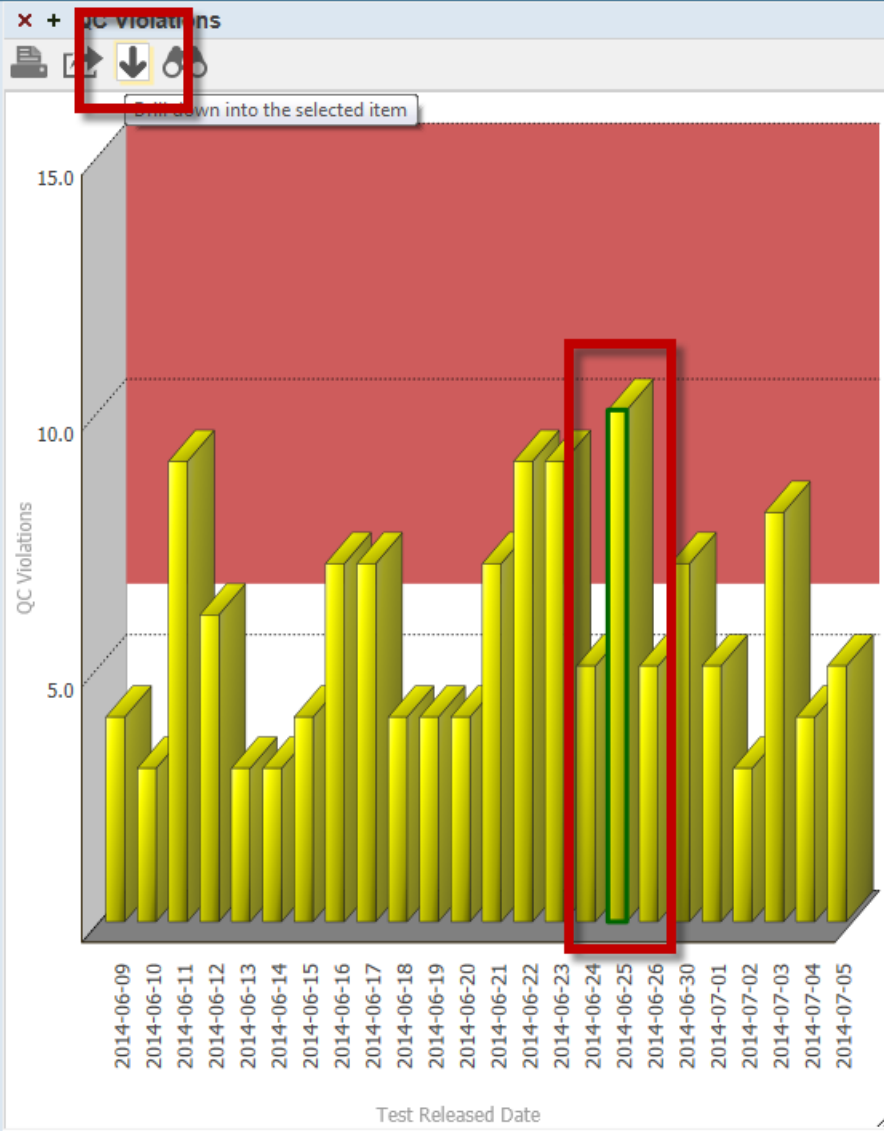
Connection Site

Connection Location
Chemistry

Connection Name

Test Name

Fluid



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Connection Site

Connection Location
Chemistry

Connection Name

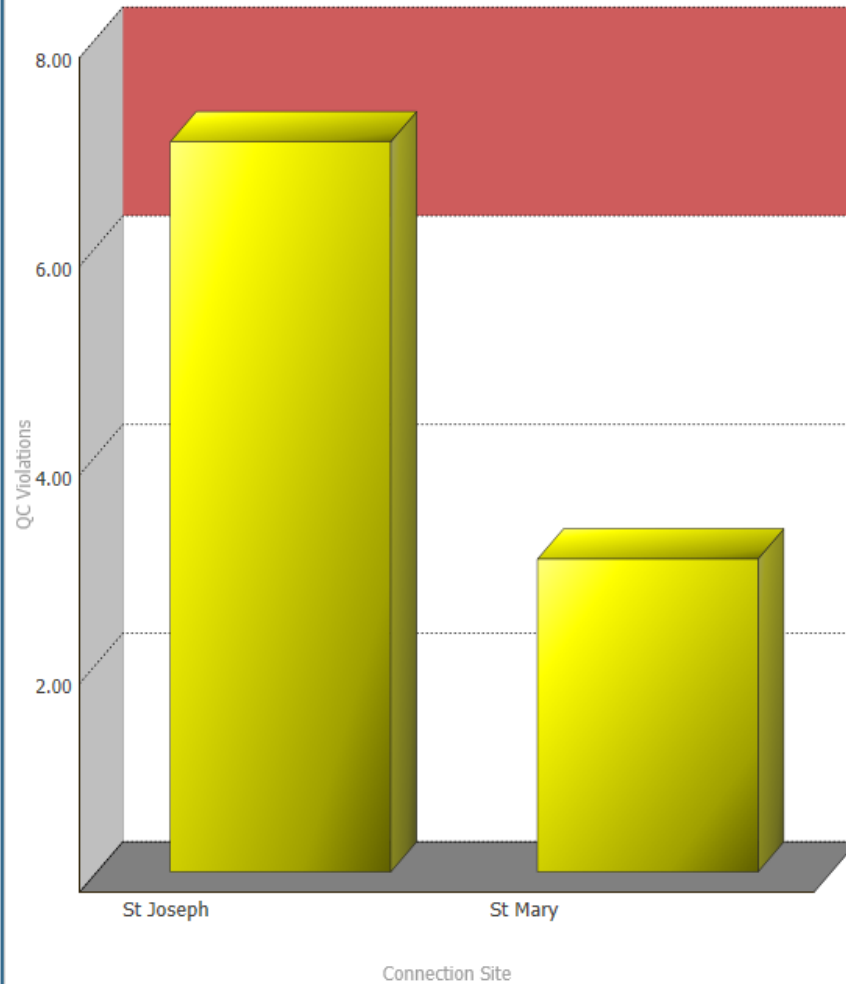
Test Name

Fluid



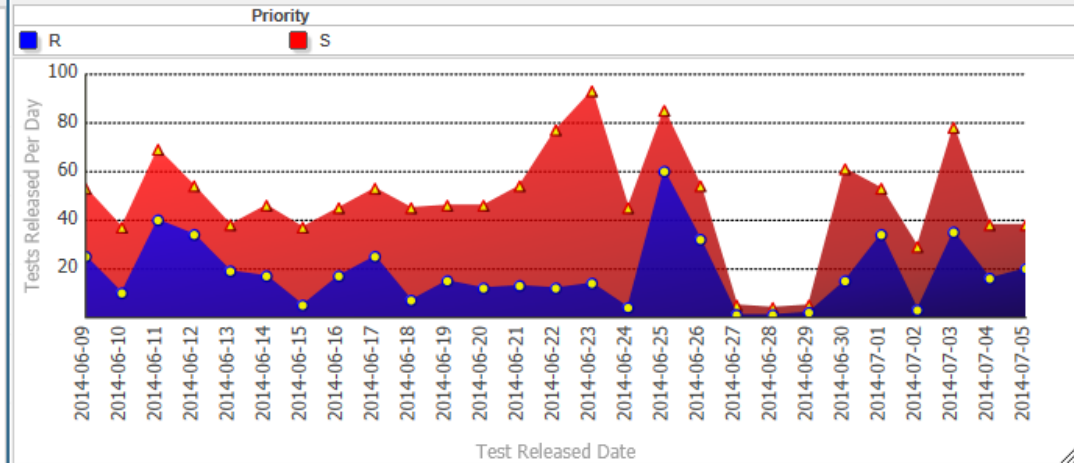
QC Violations

Test Released Date: 2014-06-25



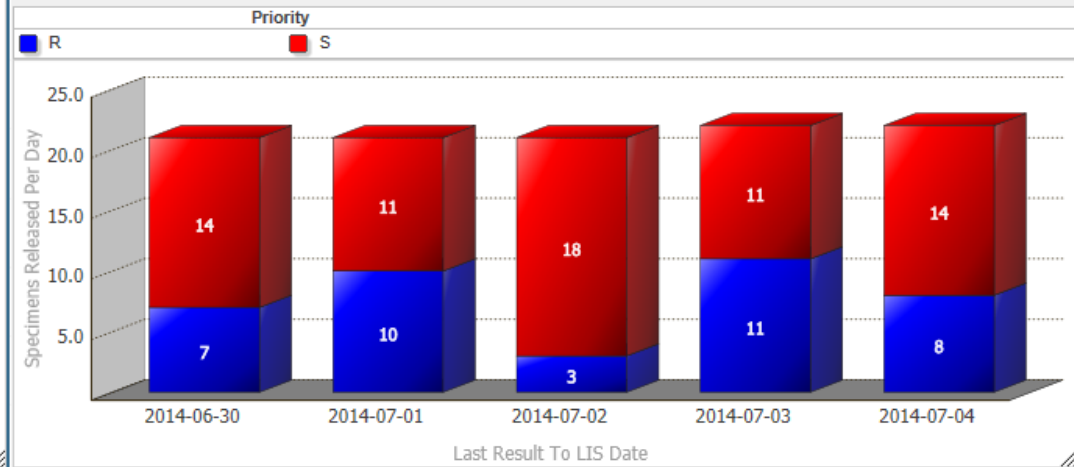
Tests Released Per Day

Priority



Specimens Released Per Day

Priority



Done

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8/12/2014

10:23 PM

Menu [Home](#) | [Save](#) | [Logout](#)

User: IM_ADMIN

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Overall Activity

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Date
2014-06-30:2014-07-04

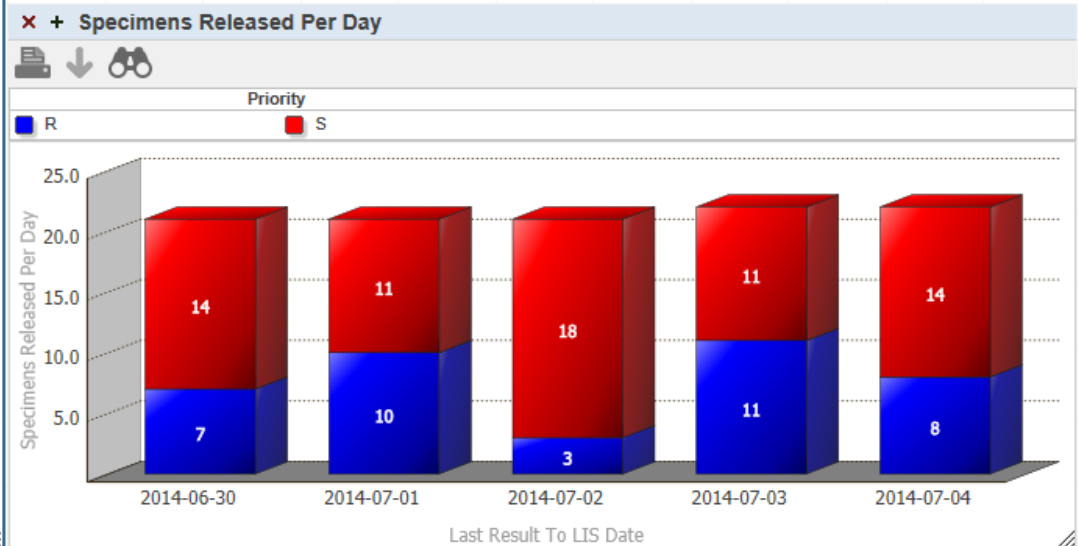
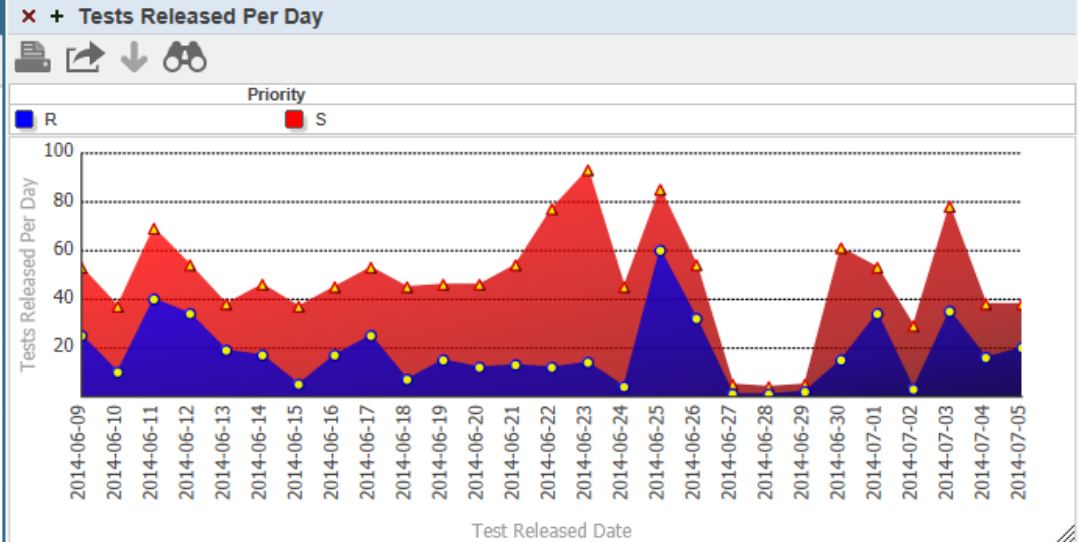
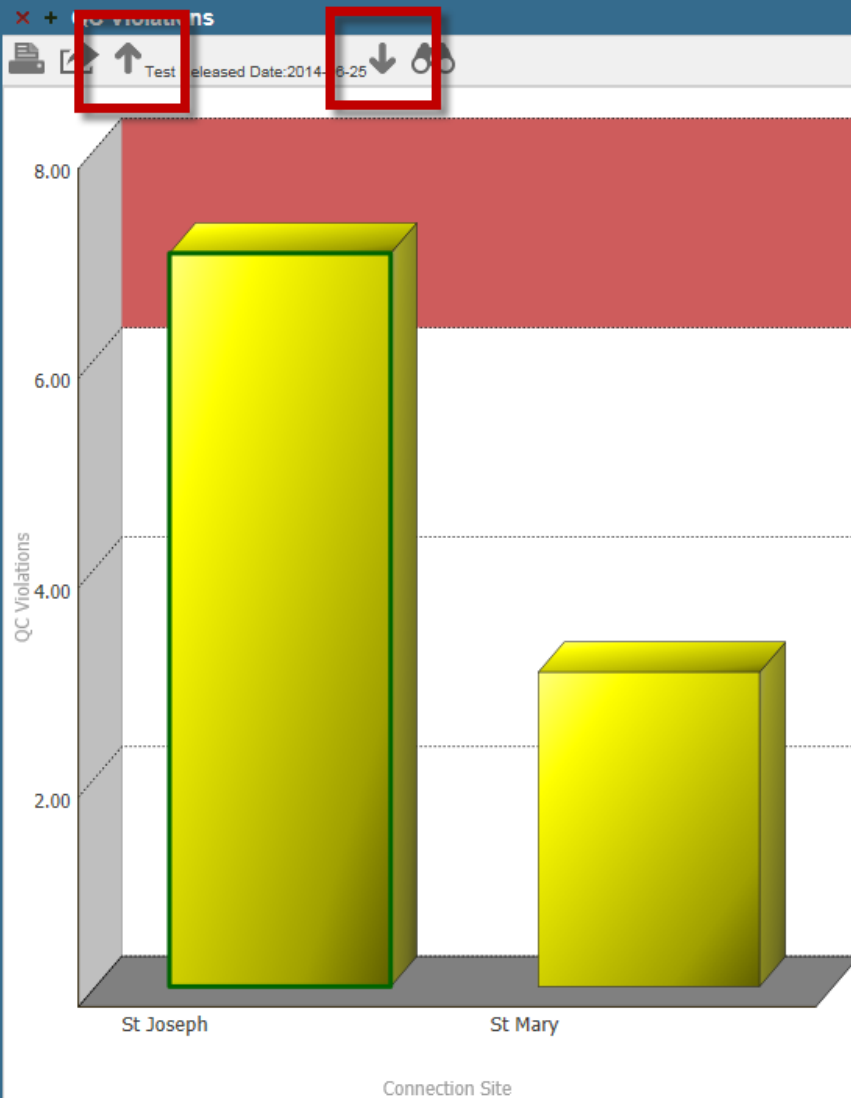
Connection Site
[Search]

Connection Location
Chemistry

Connection Name
[Search]

Test Name
[Search]

Fluid
[Search]



Overall Activity

Filters

Date
2014-06-30:2014-07-04

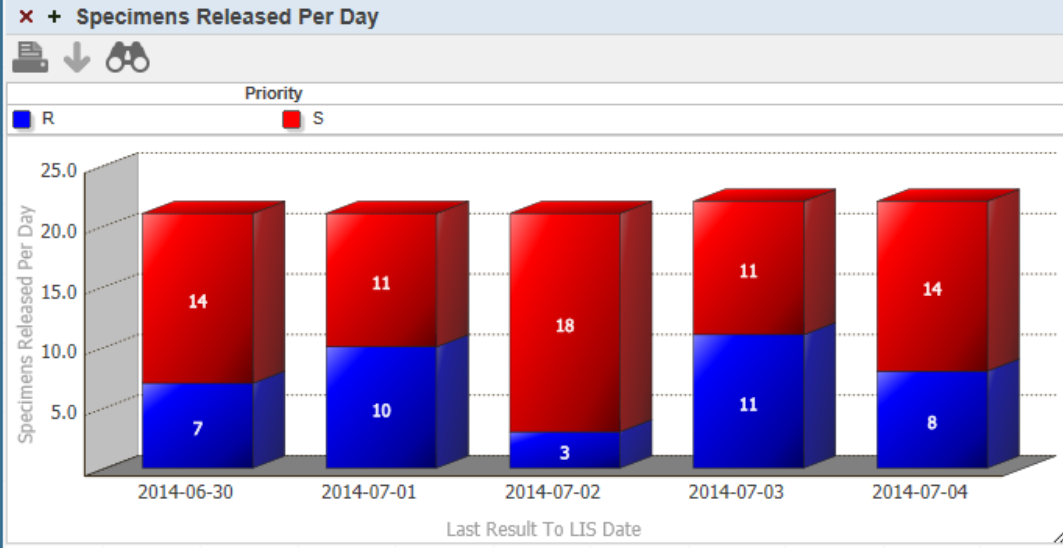
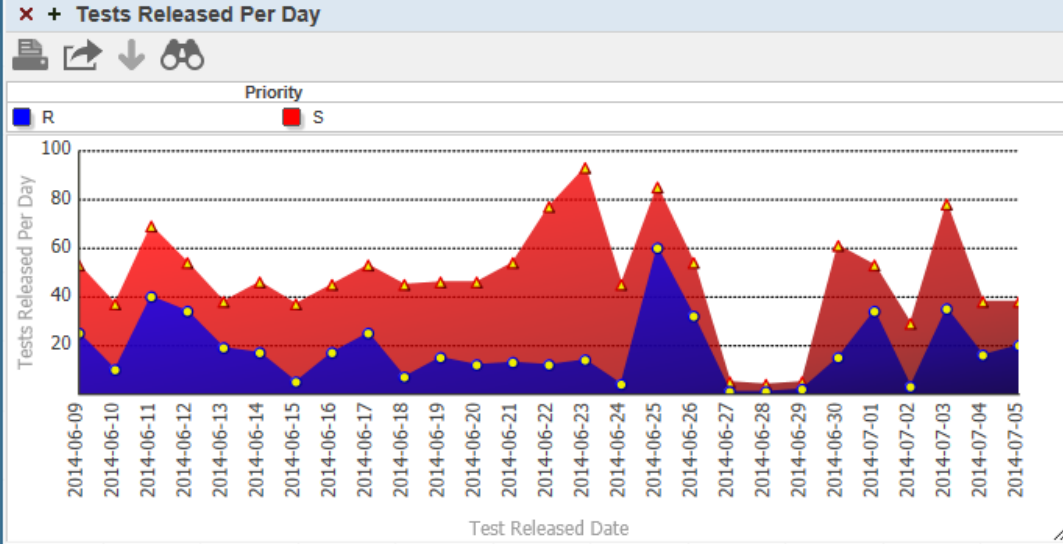
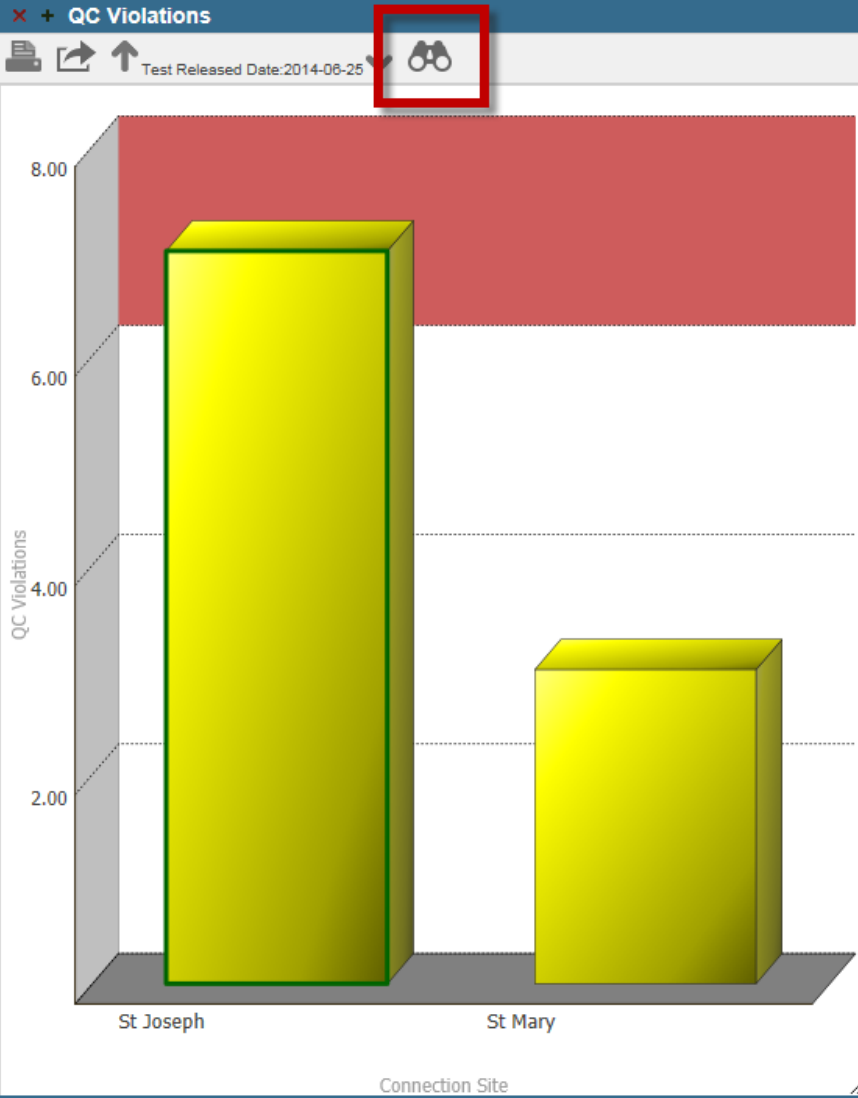
Connection Site

Connection Location
Chemistry

Connection Name

Test Name

Fluid



Overall Activity

Filters

Date
2014-06-30:2014-07-04

Connection Site
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Connection Location
Chemistry

Connection Name
[Search]

Test Name
[Search]

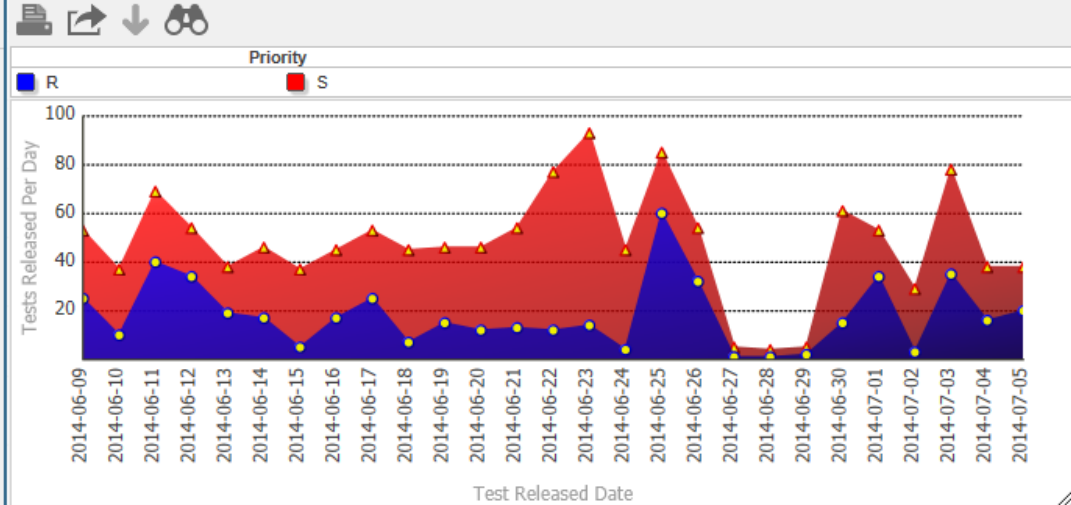
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QC Violations

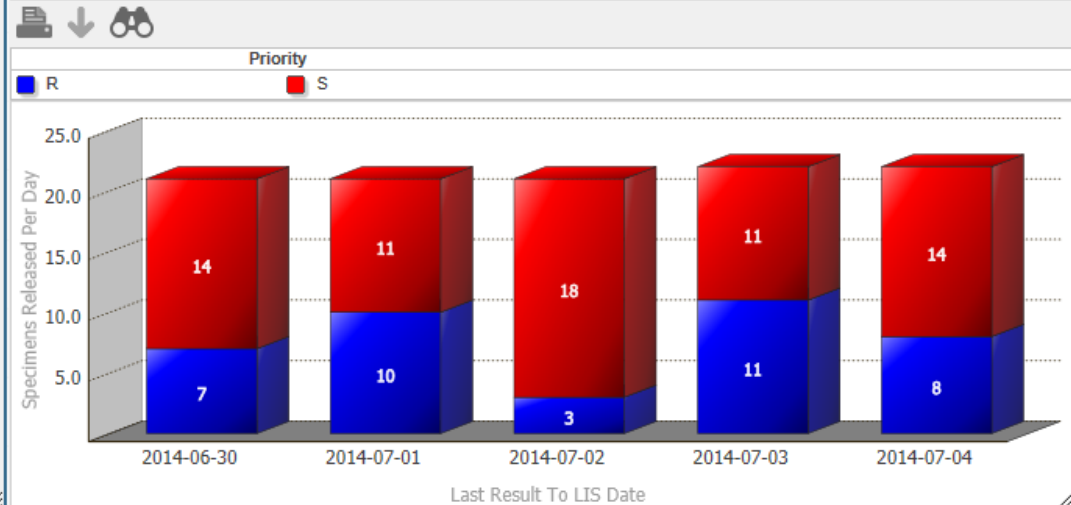
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2	06250000004	St Joseph	Chemistry	Chem Inst 03
3	06250000009	St Joseph	Chemistry	Chem Inst 01
4	06250000011	St Joseph	Chemistry	Chem Inst 03
5	06250000032	St Joseph	Chemistry	Chem Inst 03
6	06250000039	St Joseph	Chemistry	Chem Inst 03
7	06250000044	St Joseph	Chemistry	Chem Inst 01

Tests Released Per Day



Specimens Released Per Day



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Date
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Connection Site
[Search]

Connection Location
Chemistry

Connection Name
[Search]

Test Name
[Search]

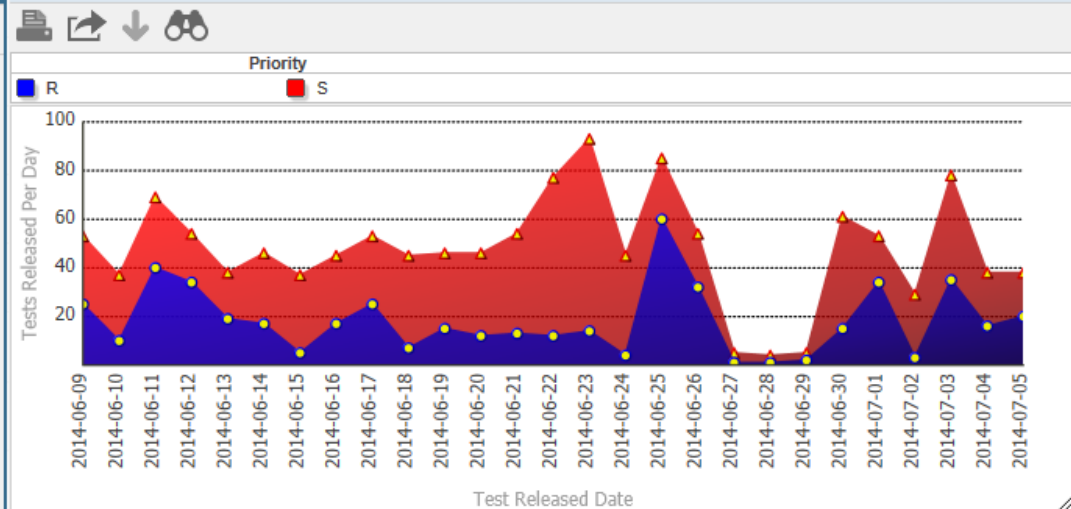
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OC Violations

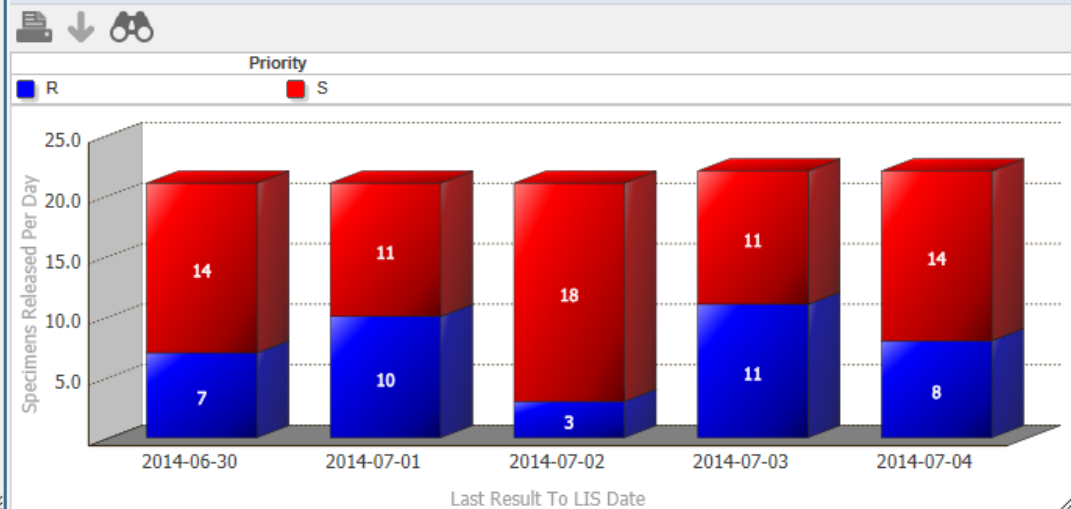
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2	06250000004	St Joseph	Chemistry	Chem Inst 03 ALT
3	06250000009	St Joseph	Chemistry	Chem Inst 01 Bun
4	06250000011	St Joseph	Chemistry	Chem Inst 03 B12
5	06250000032	St Joseph	Chemistry	Chem Inst 03 Albumin
6	06250000039	St Joseph	Chemistry	Chem Inst 03 Amphet
7	06250000044	St Joseph	Chemistry	Chem Inst 01 ALT

Tests Released Per Day



Specimens Released Per Day



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Connection Location
Chemistry

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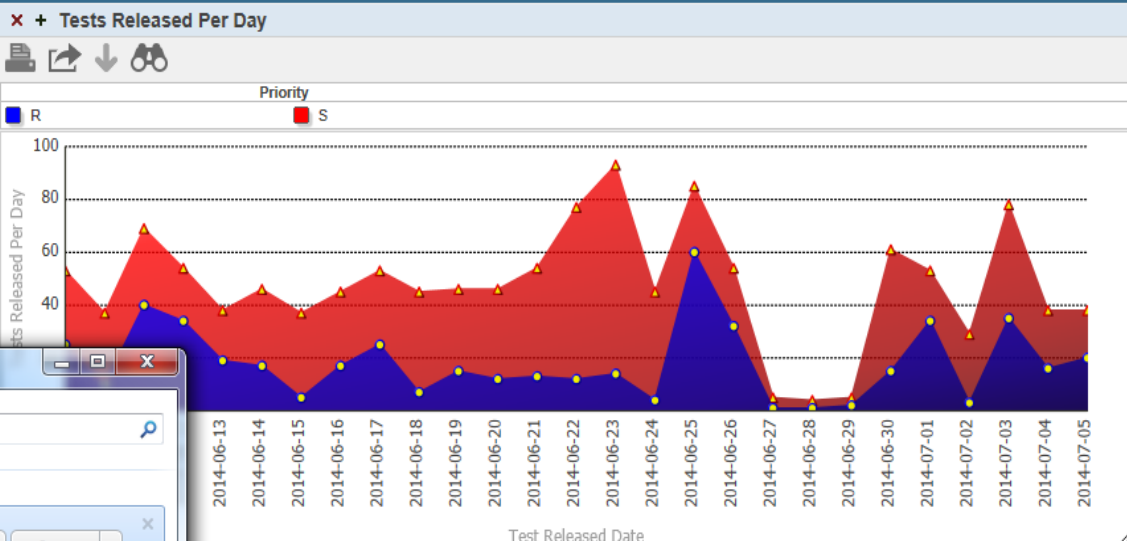
Test Name

Fluid

QC Violations

Test Released Date: 2014-06-25

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<input type="checkbox"/>	3	06250000009	St Joseph	Chemistry	Chem Inst 01	Bun
<input checked="" type="checkbox"/>	4	06250000011	St Joseph	Chemistry	Chem Inst 03	B12
<input type="checkbox"/>	5	06250000032	St Joseph	Chemistry	Chem Inst 03	Albumin
<input type="checkbox"/>	6	06250000039	St Joseph	Chemistry	Chem Inst 03	Amphetamines
<input type="checkbox"/>	7	06250000044	St Joseph	Chemistry	Chem Inst 03	Amphetamines



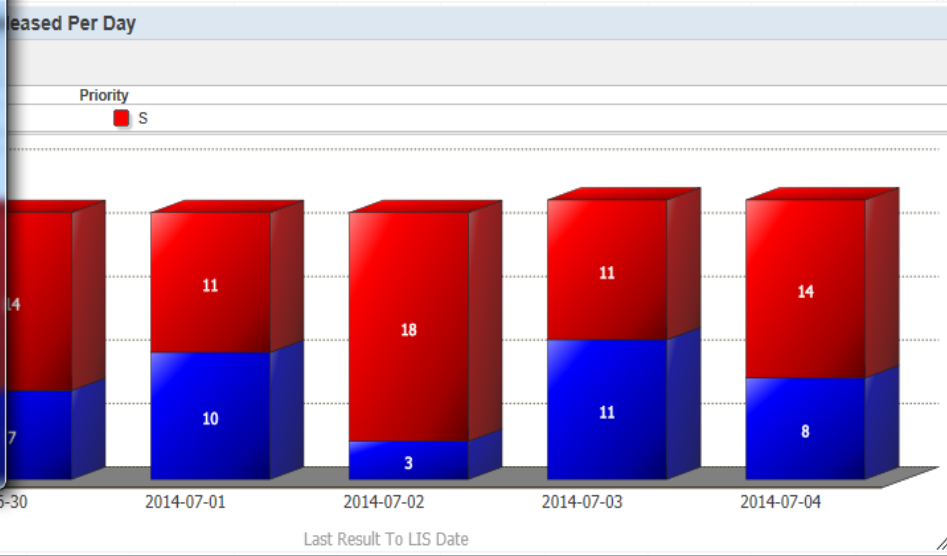
View Downloads - Windows Internet Explorer

View and track your downloads

Search downloads

Name	Location	Actions
MDXExcel.xls	127.0.0.1	Do you want to open or save this file? Open Save

Options Clear list Close



Overall Activity

Filters

Date
2014-06-30:2014-07-04

Connection Site

Connection Location
Chemistry

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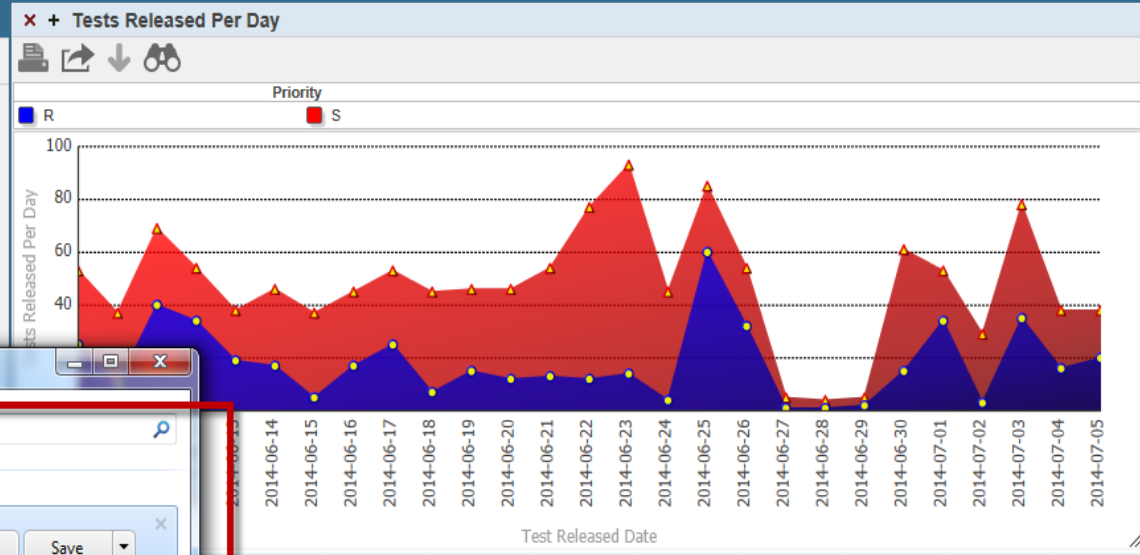
Test Name

Fluid

QC Violations

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<input checked="" type="checkbox"/>	1	06250000002	St Joseph	Chemistry	Chem Inst 01	B12
<input type="checkbox"/>	2	06250000004	St Joseph	Chemistry	Chem Inst 03	ALT
<input type="checkbox"/>	3	06250000009	St Joseph	Chemistry	Chem Inst 01	Bun
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<input type="checkbox"/>	6	06250000039	St Joseph	Chemistry	Chem Inst 03	Amphetamines
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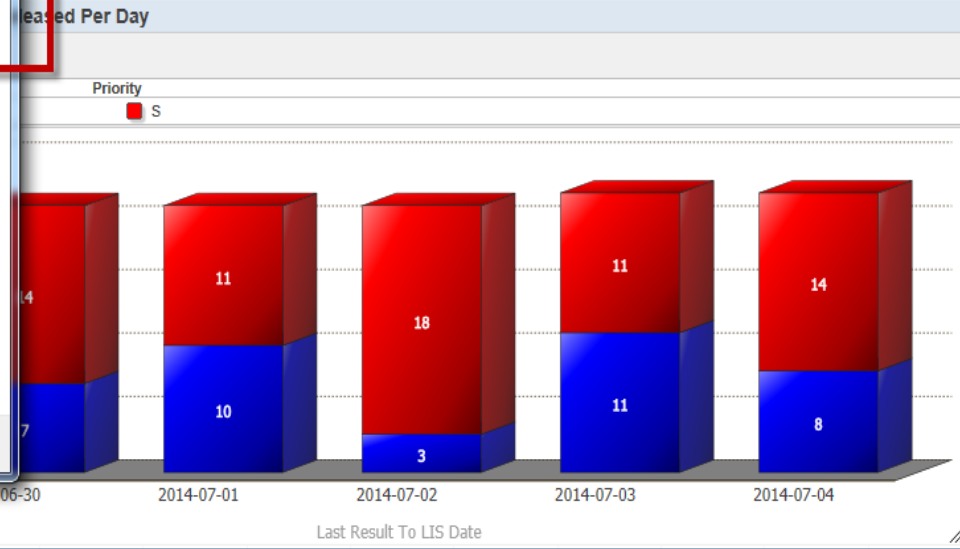
View Downloads - Windows Internet Explorer

View and track your downloads

Search downloads

Name	Location	Actions
MDXExcel.xls	127.0.0.1	Do you want to open or save this file? Open Save

Options Clear list Close



Pre-Defined Key Performance Indicators

Quantifiable measures to evaluate the success of a particular activity

Metrics					
KPIs		TAT	Autoverify	Quality	Volume
	Specimens Released Per Day				●
	Test Released Per Day	●			●
	Specimen Completion Status	●	●	●	●
	Specimen By Priority	●		●	●
	First Time Pass Rate	●	●	●	
	QC Violations	●		●	
	Specimen Quality Indicators	●		●	
	Autoverification (Speedometer)	●	●		
	Autoverification (7 day bar chart)	●	●		
	TAT Chemistry for Routine	●			
	TAT Chemistry for STAT	●			
	TAT Hematology for STAT	●			
	TAT Hematology for Routine	●			
	TAT Overall	●			
	Connection Status			●	

Laboratory Intelligence

Analytic insight into your laboratory operations

- Instant access to timely, actionable performance metrics for your lab
 - Empowers the lab with 'real-time' access to critical and relevant data
 - Real time snapshot and historical view of laboratory operations
 - Drill-down capacity to identify root-causes
 - Stakeholder-ready information
 - Easy access to actionable information
 - Leading indicators to monitor services levels and detect variances
 - Tool to engage employees in goal-setting and improving outcomes

Questions?

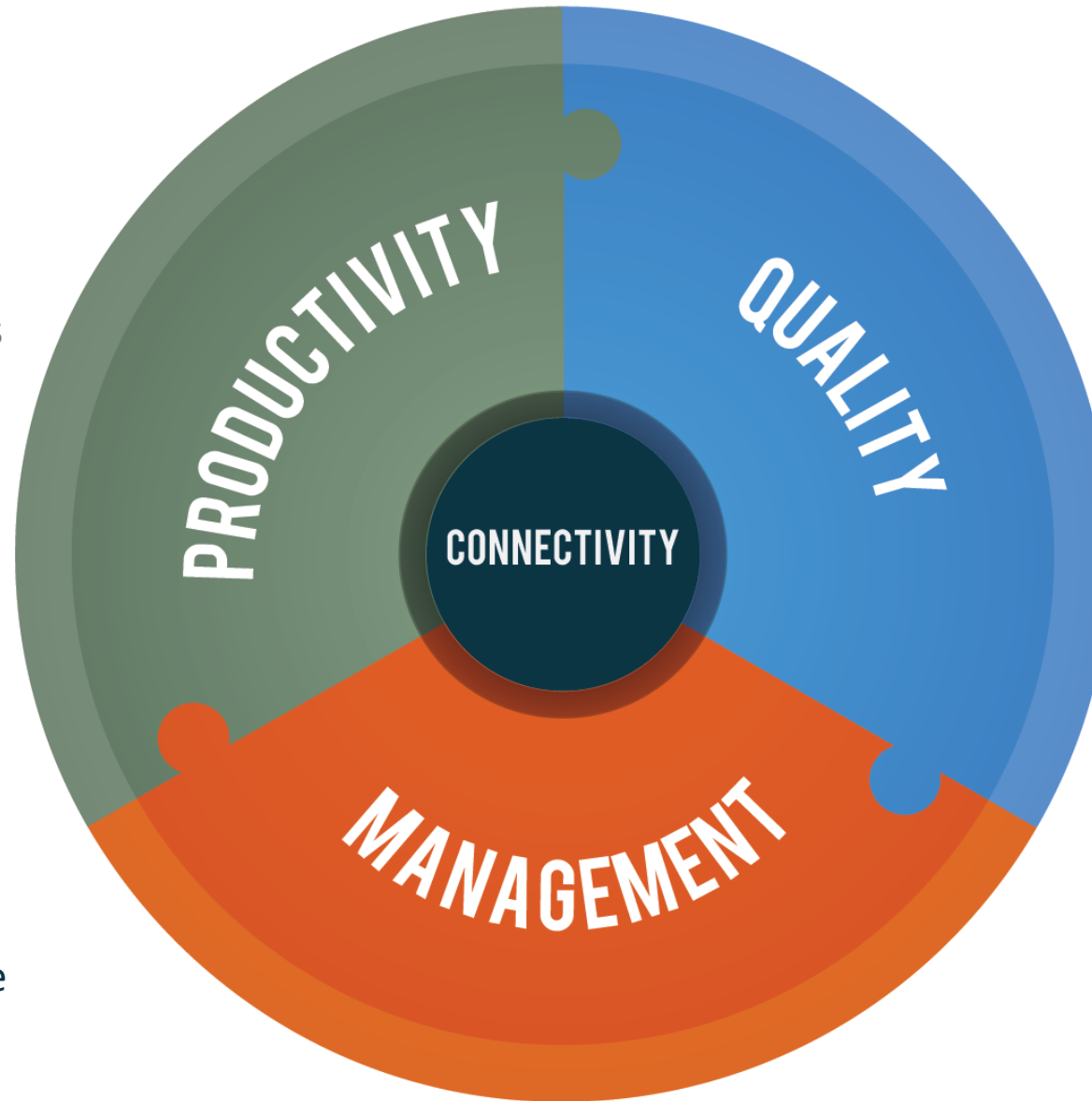
Thank you for your time!

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- **Laboratory Intelligence**