## 08 Find Highlighted Cells in a Range

## Purpose

Automatically find highlighted cells in a specified cell range and generate an alert.



## Workflow

In this example we read cell highlight attributes in the range B3:C9 on the **SI-180336** worksheet in the file data/ Safety ABR86A.xlsx.

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1		PRECLINICAL DRUG METABOLISM				PHARM	ACOKINETIC STUDY	REPORT				
2												
3		Study:	PKS-PDM-ABR86A-015									
4		Principal Investigator:	Francis Deere									
5		Report Date:	Aug-29-2013									
0		Species:	WIStar han rat									
2		Test Article:	ST-180336									
0		MW ·	549 55									
10				<b>•</b>								
11												
		Description:	Exploratory PKPD Lead Optimization Study in Male Rats with RLHFA92347 Assay									
12												
13												
14												
15												
16		Treatment Dose:	40	mg/kg		Dose \	/olume:					
17		Formulation:										
18		Fasted/Fed:										
19												
20		Concentrations (UM) of the test										
20		article in RAT PLASMA										
21		Timo	Subject	Treatment	-	-			-	etd Dov	N	
22		Hrs	000000 (Gender) (uM)	Treatment						SIU. Dev.	N	
23		0	<(0.010)	-	-	-			-	-	0	
24		1	0.137	-	-	-			-	0.212	3	
25		2	0.366	-	-	-			-	0.111	6	
26		4	0.971	-	-	-			-	0.314	4	
27		6	0.314	-	-	-			-	0.206	6	
28		12	0.023	-	-	-			-	0.432	3	
29												
30			5.170									
31	AUC	µwin wM	0.1/9	-	-	-			-	-	-	
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35												
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Before reading any data we make a copy of the input file in the job directory. The original input file is shared by all users of the exercise: creating a copy helps ensure it is not accidentally modified if you later decide to use a writer component on it.

Using the **Cell Range Reader** component, we read from our copy of the file. We extract the values and the cell highlight attribute for cells in the range B3:C9 on the **SI-180336** worksheet. We send the cell contents into Pipeline Pilot as data records with the properties "value" and "highlighted". Using a threshold filter component we check for highlighted=1 and generate an alert table in a web browser window.

Cells B3:B9 and C3 are highlighted in the source file.

Excel Automation examples

## **Results**

Here is the result of the protocol.

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			Highlighted Cells		
col	row	celladdr	value	highlighted	
2	3	B3	Study:	1	
3	3	C3	PKS-PDM-ABR86A-015	1	
2	4	B4	Principal Investigator:	1	
2	5	B5	Report Date:	1	
2	6	B6	Species:	1	
2	7	B7	Study Type:	1	
2	8	B8	Test Article:	1	
2	9	B9	MW:	1	