

# Custom Fields

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## Custom Fields in Project's View

The screenshot shows the 'Custom Fields' tab in the GEMFIBROZIL software. The table below represents the data shown in the interface.

ID	Name	Field Type	Type	Width	Precision	Minimum	Maximum	Default	Source	Required	Formula
1	Label_Claim	Component	Real (0.0)	12	3	-100000000	100000000		Keyboard	<input type="checkbox"/>	
2	Dilution	Sample Set	Real (0.0)	12	3	-100000000	100000000		Keyboard	<input type="checkbox"/>	
3	Amount_for_Formyl	Peak	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	Amount*CConst1
4	Area_Amount	Peak	Real (0.0)	12	4	-100000000	100000000		Calculated	<input type="checkbox"/>	Area/Amount
5	Amount_Control_1	Peak	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	Amount/CConst1
6	Amount_Control_2	Peak	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	Amount/CConst2
7	On_dry	Peak	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	Amount/(100-Water)*100
8	On_dry_basis	Peak	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	Amount/(100-Water)*100
9	RRT_All	Peak	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	(Retention Time/CConst1/Retention Time)
10	Unknown_Fraction	Result	Real (0.0)	12	3	-100000000	100000000		Calculated	<input type="checkbox"/>	Percent Unknowns/SUM(% Area)
11	Dilution	Sample	Real (0.0)	12	3	-100000000	100000000		Keyboard	<input type="checkbox"/>	
12	Notebook_ID	Sample	Real (0.0)	12	3	-100000000	100000000		Keyboard	<input type="checkbox"/>	
13	SampleWeight	Sample	Real (0.0)	11	5	0	100000	1.0	Keyboard	<input type="checkbox"/>	
14	Amount_Loaded	Sample	Real (0.0)	12	6	-100000000	100000000		Keyboard	<input type="checkbox"/>	
15	Water	Sample	Real (0.0)	12	2	0	100000000		Keyboard	<input checked="" type="checkbox"/>	
16	ChromatogParameters	Sample	Text	51	0	-32768	32767		Keyboard	<input type="checkbox"/>	
17	ID_COLUMN	Sample	Text	79	0	0	0		Keyboard	<input type="checkbox"/>	
18	SampleName	Sample	Text	32	0	-32768	32767	Unk.	Keyboard	<input checked="" type="checkbox"/>	
19	Column_ID	Sample	Text	79	0	-32768	32768		Keyboard	<input type="checkbox"/>	
20	column_type	Sample	Text	79	0	-32768	32767		Keyboard	<input type="checkbox"/>	
21	ChromatogMethod	Sample	Text	50	0	-32768	32767		Keyboard	<input type="checkbox"/>	

For Help, press F1 21 Selected

## Different Types of Custom Fields

- Sample Type Custom Fields
- Peak Type Custom Fields
- Result Custom Fields
- Sample Set Custom Fields (version 4.0)
- Component Custom Fields (version 4.0)

## Different Types of Custom Fields

### Advanced Functionality

- Inter-peak Custom Fields
  - With Fixed Peak Names
  - With Variables
- Inter-Sample Custom Fields
- Inter-Sample Summary Custom Fields (version 4.0)
- Boolean and Enumerated Custom Fields

## Result Custom Fields

### Difference between a Peak Custom Field and a Result Custom Field

- A Peak Custom field
  - ❑ Results in 1 value per peak
  - ❑ Displayed in the Review or Project View Peak Table
- A Result Custom Field
  - ❑ Results in 1 value per Chromatogram (Channel)
  - ❑ Displayed in the Result View of Review or the Project Window
  - ❑ Examples:
    - ❖ Calculated Average Area
    - ❖ Minimum Calculated Peak Height
    - ❖ ...

## Creating Custom Fields

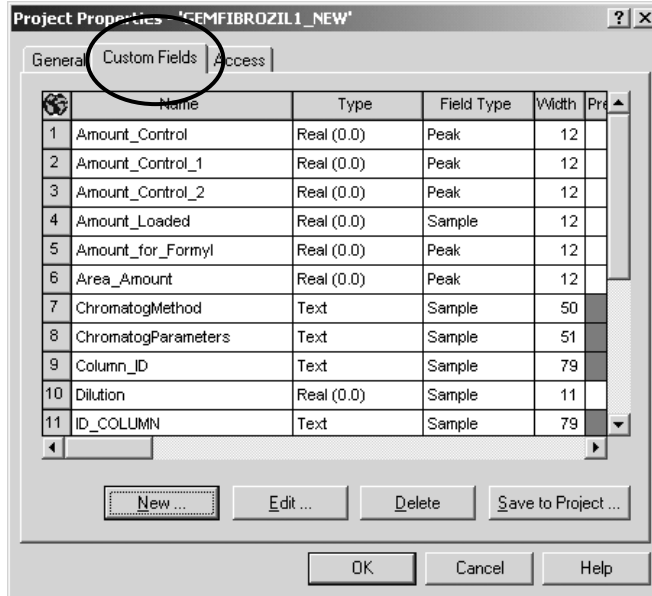
System/Administrator - Configuration Manager

File Edit View Records Help

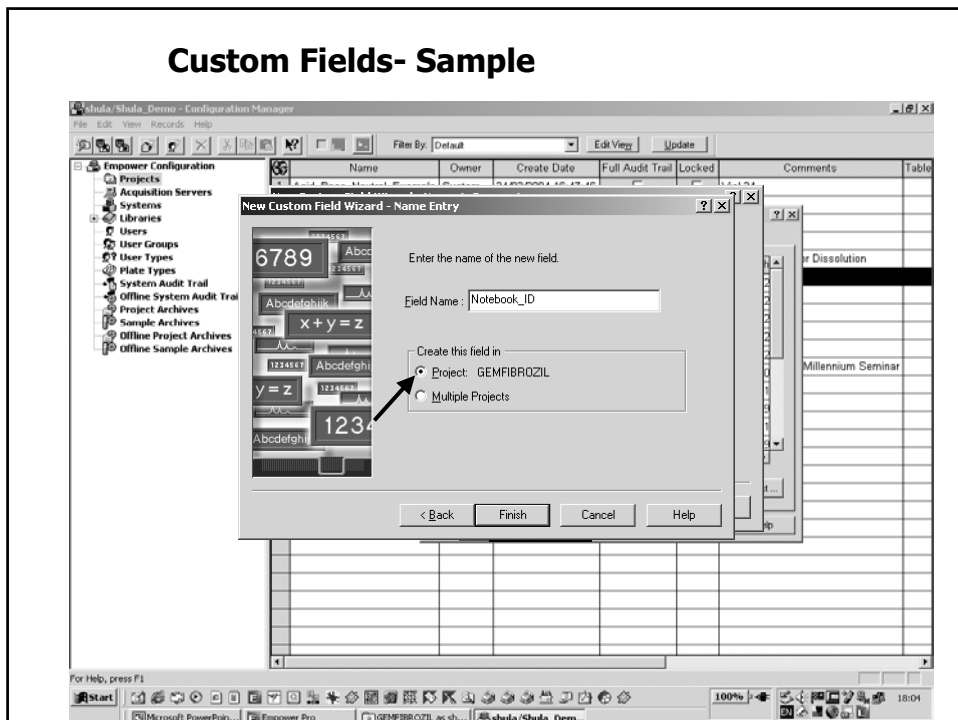
Filter By: Default Edit View Update

Name	Owner	Create Date	Full Audit Trail	Locked	Comm
1 Acid_Base_Neutral_Example	System	18/03/2003 13:58:45	<input type="checkbox"/>	<input type="checkbox"/>	Vial 24
2 ALLIANCE_DEMO	System	16/03/2003 13:07:47	<input type="checkbox"/>	<input type="checkbox"/>	
3 AMDS_FX_Ver	System	19/01/2003 14:46:15	<input type="checkbox"/>	<input type="checkbox"/>	a 5 peak sample to check FX
4 AMDS_Template_XP	Open	:51:04	<input type="checkbox"/>	<input type="checkbox"/>	AMDS typical project
5 Amir	Update Statistics	:41:09	<input type="checkbox"/>	<input type="checkbox"/>	
6 ASPIRIN	Backup Project	:41:32	<input type="checkbox"/>	<input type="checkbox"/>	
7 a_Intersample_Calc	Restore Project(s)	:05:09	<input type="checkbox"/>	<input type="checkbox"/>	Test of custom fields
8 Defaults	Delete	:05:52	<input type="checkbox"/>	<input type="checkbox"/>	Default project
9 Demo	New	:31:41	<input type="checkbox"/>	<input type="checkbox"/>	
10 Desoxy_Sys9	Clone	:41:47	<input type="checkbox"/>	<input type="checkbox"/>	Project for System 9
11 Dissolution_Default	Move Project Data	:41:58	<input type="checkbox"/>	<input type="checkbox"/>	Default Project for Dissolution
12 Dissolution_Project	Unlock Project	:42:22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Training and demonstration
13 Dissolution_SI_1181	Lock Project	:42:32	<input type="checkbox"/>	<input type="checkbox"/>	Copy of original project SI_14181_dissolution
14 elizen	Copy	:42:42	<input type="checkbox"/>	<input type="checkbox"/>	
15 ELSD_OG_PQ	Hide Column	:06:49	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ELSD_OG_PQ
16 erwin	Show All Columns	:43:03	<input type="checkbox"/>	<input type="checkbox"/>	
17 Erwin2996	Print Table	:28:40	<input type="checkbox"/>	<input type="checkbox"/>	
18 Full_Audit	Table Properties...	:34:48	<input checked="" type="checkbox"/>	<input type="checkbox"/>	New project which include full audit trail properties
19 Full_Audit_Trail	Column Properties...	:07:40	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Test Project
20 GEMFIBROZL		24/08/2004 15:25:57	<input checked="" type="checkbox"/>	<input type="checkbox"/>	STABILITY
21 GEMFIBROZL1_NEW	shula	24/08/2004 15:33:05	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HPLC
22 GPCV_Default	shulalevin	17/03/2003 15:43:14	<input type="checkbox"/>	<input type="checkbox"/>	
23 GPCV_Default_original	shulalevin	17/03/2003 15:43:25	<input type="checkbox"/>	<input type="checkbox"/>	
24 GPC_Default	shulalevin	17/03/2003 15:43:41	<input type="checkbox"/>	<input type="checkbox"/>	

## Project's Properties



## Custom Fields- Sample



## Where is the Field?

GEM\_USP\_412 03 in GEMFIBROZIL as System/Administrator - Sample Set Method Editor

### Sample Set Window

Inj	Column Position	Amount_Loaded	ChromatogramMethod	ChromatogramParameters	Column_ID	ID_COLUMN	Notebook_ID	Viewer	column_type
1			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
2			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
3			2485-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
4									
5									
6			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
7			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
8			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
9			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
10			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
11			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
12			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
13			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
14			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
15			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
16			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
17			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
18			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
19			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
20			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
21			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
22									
23									
24			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
25			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
26			2409-usp	700mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM
27			2489-usp	780mlMeOH10mlAc.Ac+H2O to 1000ml	Y535 KNAUER	0	0	0	EUROSPHER100,C18,5M,250*4.0MM

For Help, press F1

## Where is the Custom Field?

GEMFIBROZIL as System/Administrator - Project

Sample Sets	Injections	Methods	Result Sets	Results	Peaks	Sign Offs	Curves	View Filters	Custom Fields	Audit Trails	Notebook_ID	# of Rows
SampleName	Vol	Injection	Sample Type	Date Acquired	Channel	Channel Description	Acq Method Set					Store
1	STD 1 ASS CONTROL	60	1	Unknown	23/06/2004 12:20:42	400	276 nm	GEM_STB_401042				
2	248902404-1 3M4DC	62	1	Unknown	23/06/2004 12:13:07	400	276 nm	GEM_STB_401042				
3	248902404-3 3M4DC	61	1	Unknown	23/06/2004 11:56:37	400	276 nm	GEM_STB_401042				
4	STD 1 ASS CONTROL	60	1	Unknown	23/06/2004 11:20:25	400	276 nm	GEM_STB_401042				
5	blank	59	1	Unknown	23/06/2004 11:03:55	400	276 nm	GEM_STB_401042				
6	blank	55	1	Unknown	23/06/2004 2:09:24	400	276 nm	GEM_flow 02_401042				
7	STD 2% MP	56	1	Unknown	23/06/2004 1:52:15	400	276 nm	GEM_STB_401042				
8	blank	55	2	Unknown	23/06/2004 1:36:56	400	276 nm	GEM_STB_401042				
9	blank	55	1	Unknown	23/06/2004 1:18:04	400	276 nm	GEM_STB_401042				
10	248902404-2 3M4DC	59	1	Unknown	23/06/2004 0:40:55	400	276 nm	GEM_STB_401042				
11	248902404-1 3M4DC	57	1	Unknown	23/06/2004 0:03:40	400	276 nm	GEM_STB_401042				
12	STD 2% MP	56	1	Unknown	22/06/2004 23:49:42	400	276 nm	GEM_STB_401042				
13	blank	55	2	Unknown	23/06/2004 23:20:34	400	276 nm	GEM_STB_401042				
14	blank	55	1	Unknown	22/06/2004 23:12:31	400	276 nm	GEM_STB_401042				
15	blank	28	2	Unknown	23/06/2004 22:55:07	400	276 nm	GEM_STB_401042				
16	blank	28	1	Unknown	23/06/2004 22:38:04	400	276 nm	GEM_STB_401042				
17	STD 1 ASS CONTROL	54	1	Unknown	23/06/2004 22:20:42	400	276 nm	GEM_STB_401042				
18	248922002-2 19M2SC	53	1	Unknown	23/06/2004 22:04:09	400	276 nm	GEM_STB_401042				
19	248922002-1 19M2SC	52	1	Unknown	23/06/2004 21:47:33	400	276 nm	GEM_STB_401042				
20	STD 1 ASS CONTROL	51	1	Unknown	23/06/2004 21:39:03	400	276 nm	GEM_STB_401042				
21	248902404-2 3M4DC	50	1	Unknown	23/06/2004 21:14:34	400	276 nm	GEM_STB_401042				
22	248902404-1 3M4DC	49	1	Unknown	23/06/2004 20:58:05	400	276 nm	GEM_STB_401042				
23	248902204-2 3M4DC	48	1	Unknown	23/06/2004 20:41:13	400	276 nm	GEM_STB_401042				
24	248902204-1 3M4DC	47	1	Unknown	23/06/2004 20:24:42	400	276 nm	GEM_STB_401042				
25	248902104-2 3M4DC	46	1	Unknown	23/06/2004 20:08:10	400	276 nm	GEM_STB_401042				
26	248902104-1 3M4DC	45	1	Unknown	23/06/2004 19:51:40	400	276 nm	GEM_STB_401042				
27	STD 1 ASS CONTROL	44	1	Unknown	23/06/2004 19:35:10	400	276 nm	GEM_STB_401042				

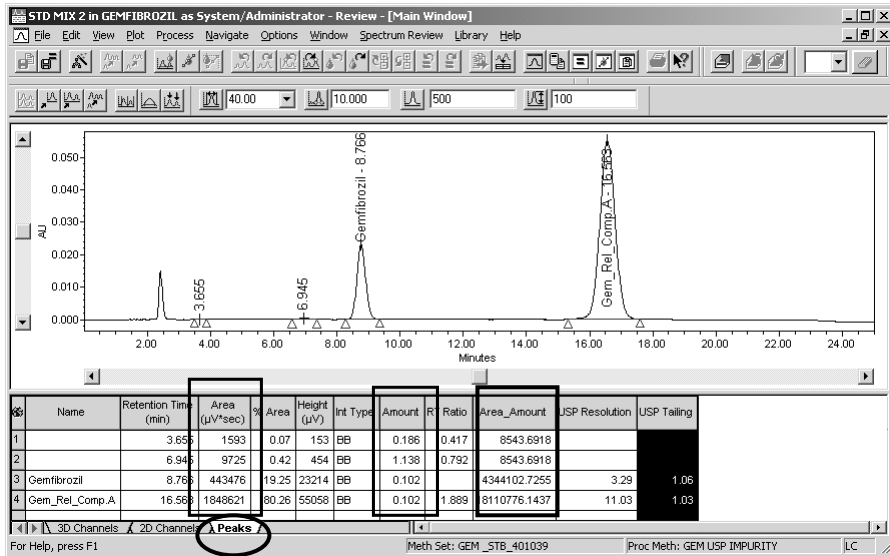
For Help, press F1

The *Sample* information is attached to the run everywhere



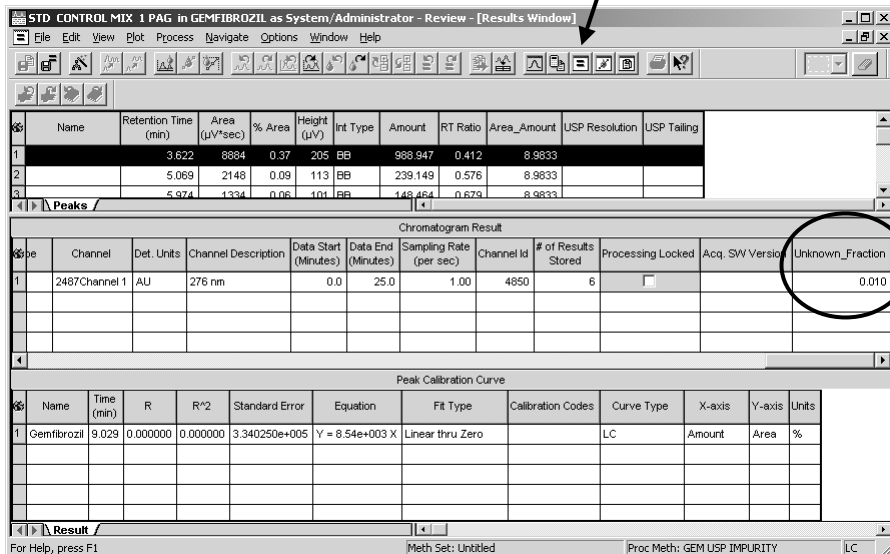
## Where are *Peak* Custom Fields

In the Review Window in *Peaks* tab



## Where is the **Result** custom field?

Review -> Window -> **Results**



## New Custom Field Wizard (version 4.0)

**New Custom Field Wizard - Data and Type Selection** [?] [X]

Select whether the field describes the Sample, the Component, the Sample Set, the Result, each Peak or each Slice in a distribution in a result.

Field Type

Sample
  Result
  Peak
  Sample Set
  Component
  Distribution

Select the type of data that will be entered in, or generated by, the custom field.

Data Type

Integer (0)
  Text
  Bool
  Real (0.0)
  Date
  Enum

< Back   Next >   Cancel   Help

## Component and Sample set Custom Fields

GEMFIBROZIL as System/Administrator - Project

File Edit View Tools Database Help

Filter By: Default   Edit View   Update

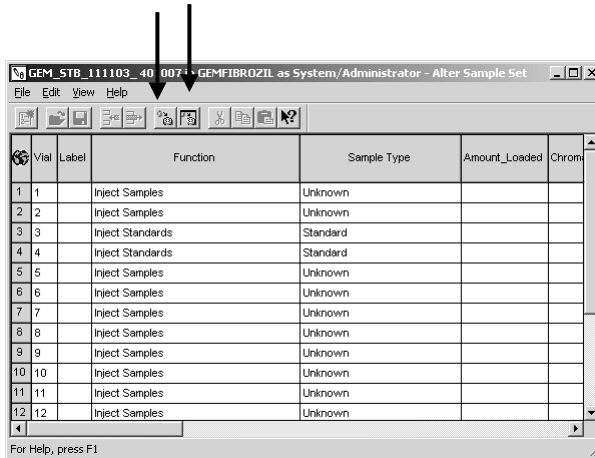
Sample Sets   Injections   Channels   Methods   Result Sets   Results   Peaks   Sign Offs   Curves   View Filters   Custom Fields   Audit Trails

	Sample Set Name	Sample Set Start Date	System Name
1	GEM_STB_401042_	23/06/2004 11:02:24	System_401042
2	GEM_STB_401042	21/06/2004 14:11:30	System_401042
3	GEM_STB_071003_401007	20/05/2004 13:22:25	401007
4	GEM_STB_401007_ass	20/05/2004 9:37:48	401007
5	GEM_STB_401007	19/05/2004 12:12:40	401007
6	GEM_BP_401007	18/05/2004 19:20:19	401007
7	GEM_BP_401007	18/05/2004 17:31:00	401007
8	GEM_STB_401007	19/04/2004 8:38:27	401007
9	GEM_STB_401039_IMP	23/03/2004 13:35:31	401039
10	GEM_USP_401039	22/03/2004 13:34:41	401039
11	GEM_STB_401039	21/03/2004 16:40:12	401039
12	GEM_STB_401039	21/03/2004	New Method
13	GEM_USP_401007	19/02/2004	Review
14	GEM_USP_401007	19/02/2004	Review/Publisher
15	GEM_STB_401007	18/02/2004	Process...
16	GEM_STB_401007	23/01/2004	Print...
17	GEM_STB_120803_401007	12/11/2003	Export...
18	GEM_STB_111103_401007	11/11/2003	Alter Sample
19	GEM_STB_111103_401007	11/11/2003	Run Samples
20	GEM_STB_071003_401007	07/10/2003	Copy To Project...
21	GEM_STB_120803_401007	12/08/2003	Lock Channel
22	GEM_STB_120803_401007	12/08/2003	Unlock Channel
23	GEM_STB_200403	20/04/2004	View As

*Run Sample window or  
Alter Sample of Sample Set*

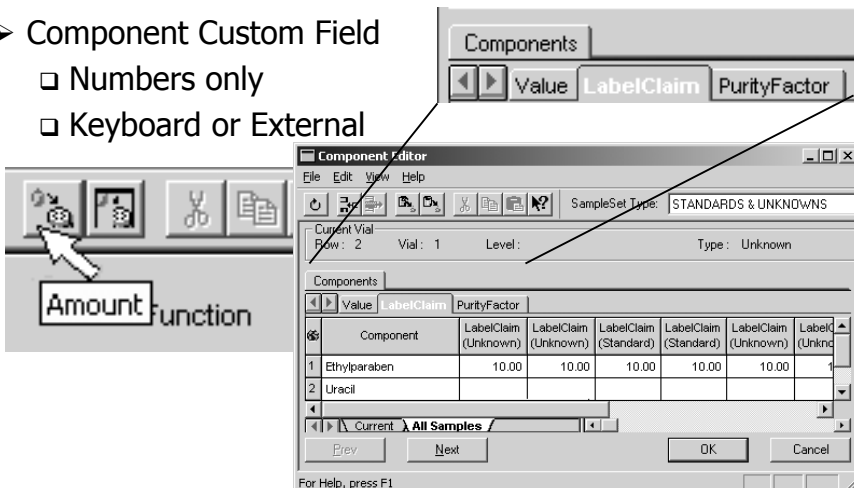
## Component and Sample Set Custom fields

*Run Sample* window or *Alter Sample* of Sample Set



## Component Custom Fields (version 4.0)

- Component Custom Field
  - Numbers only
  - Keyboard or External



## Component Custom Fields (version 4.0)

- Component Custom Field Example
  - ❑ Label Claim field can be used to calculate Percent Label Claim:

$$(\text{Amount} / \text{Label Claim}) * 100$$

## Sample Set Custom Fields (version 4.0)

- Sample Set Custom Fields
  - ❑ Text, Number or Date
  - ❑ Keyboard or External



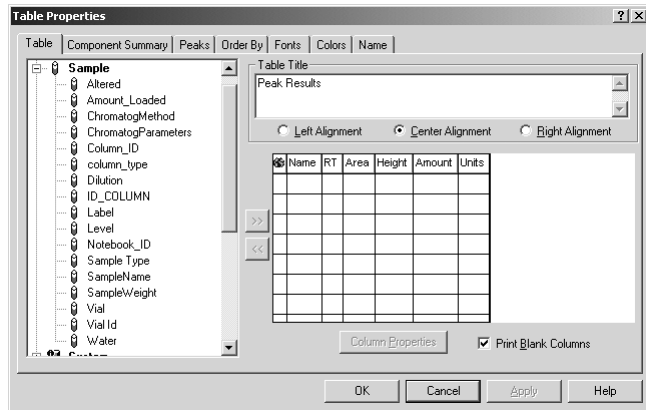
DrugName	SeqFactor
TestDrug	12345.000

Sample Set Name	Sample Set Method	Sample Set Start Date	Sample Set Finish Date	Sample Set Id	Sample Set Altered	DrugName	SeqFactor
1 June 19 2001	Usualsequence	Tuesday, June 19, 2001 05:31:55 PM	Tuesday, June 19, 2001 09:41:21 PM	1912	<input checked="" type="checkbox"/>	TestDrug	12345.000

For Help, press F1

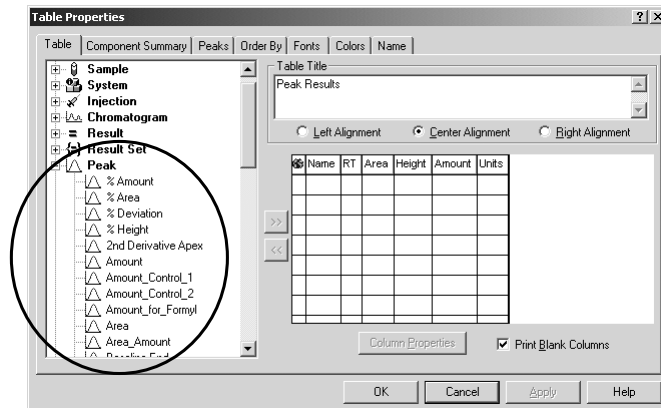
Where are the Custom Fields  
in the Reports?

### *Sample* type custom field



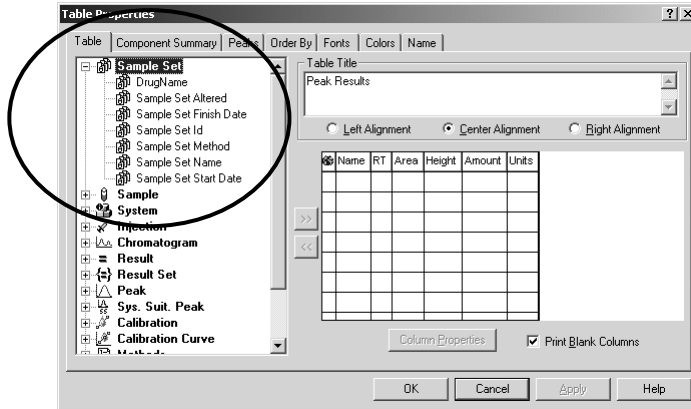
Where are the Custom Fields  
in the Reports?

### *Peak* type custom field



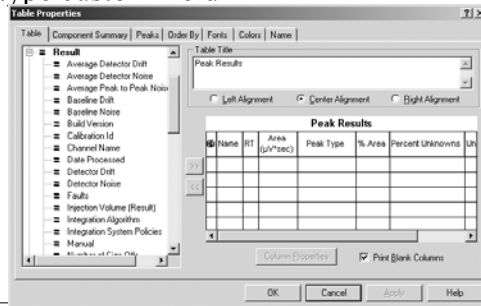
Where are the Custom Fields  
in the Reports?

*Sample Set* type custom field



Where are the Custom Fields  
in the Reports?

*Result* type custom field



**Peak Results**

	Name	RT	Area (µV*sec)	Peak Type	% Area	Percent Unknowns	Unknown_Fraction
1		3.622	8884	Unknown	0.37	0.978	0.00978
2		5.069	2148	Unknown	0.09	0.978	0.00978
3		5.974	1334	Unknown	0.06	0.978	0.00978
4		6.980	10841	Unknown	0.46	0.978	0.00978
5	Gemfibrozil	8.797	463612	Found	19.54	0.978	0.00978
6	Gem_Ret_Comp.A	16.631	1885884	Found	79.48	0.978	0.00978
Sum					100.0		

**In table or a separate field**

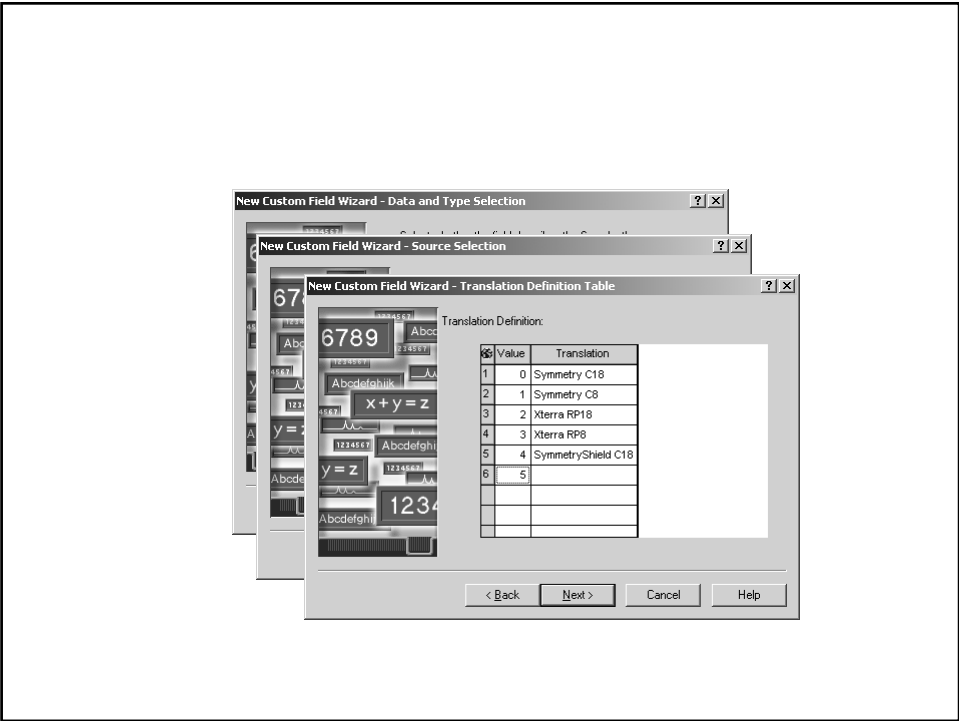
Percent Unknowns 0.978

Unknown\_Fraction 0.009781

## Advanced Custom Fields

### Enumerated Custom Fields

- Two types of Boolean and Enumerated Custom Fields:
  - ❑ Sample
  - ❑ Calculated (Peak or Result)



## Where are the Custom Fields?

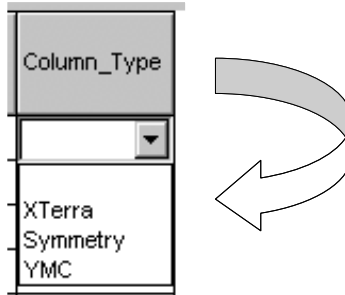
GEM\_STB\_401039\_IMP in GEMFERRO21L.as\System/Administrator - Sample Set Method Editor

SampleName	Method Set / Report Method	Run Time (Minutes)	Next Inj. Delay (Minutes)	Sample Height	Dilution	Level	Auto Additions	Column Position	Columns_List	Amount_Loads	Chromat
1	SST	14.00	0.00	1.00000	1.00000						
2	SST	15.00	0.00	1.00000	1.00000						
3	DLLLENT	15.00	0.00	1.00000	1.00000				Symmetry C18		
4	DLLLENT	40.00	0.00	1.00000	1.00000				Symmetry C8		
5	DLLLENT	40.00	0.00	1.00000	1.00000				Xterra RP18		
6	STD 2% IMP	40.00	0.00	1.00000	1.00000				Xterra RP8		
7	248902104-1 Initial	15.00	0.00	1.00000	1.00000				SymmetryShield C18		
8	248902104-1 Initial	40.00	0.00	1.00000	1.00000						
9	248902204-1 Initial	40.00	0.00	1.00000	1.00000						
10	248902204-1 Initial	40.00	0.00	1.00000	1.00000						
11	248902401-1 Initial	40.00	0.00	1.00000	1.00000						
12	248902401-1 Initial	40.00	0.00	1.00000	1.00000						
13	DLLLENT	15.00	0.00	1.00000	1.00000						
14	STD 2% IMP	15.00	0.00	1.00000	1.00000						

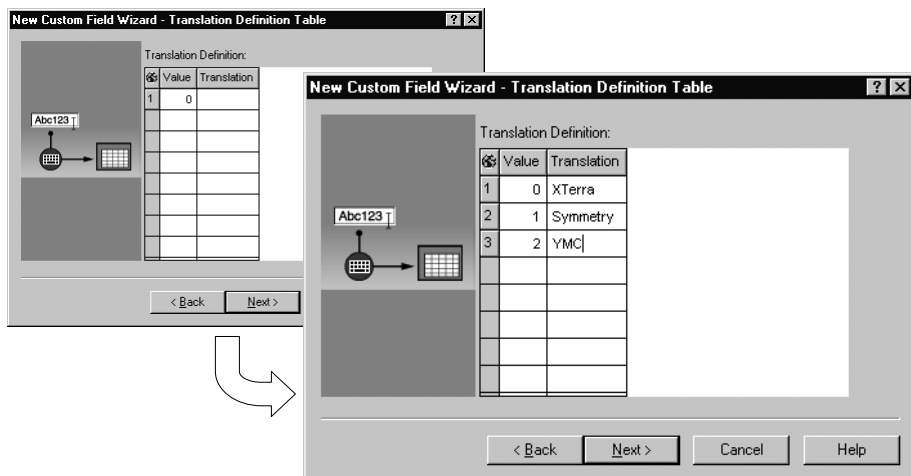
For help, press F1

## Example: Enumerated Sample Type Custom Field

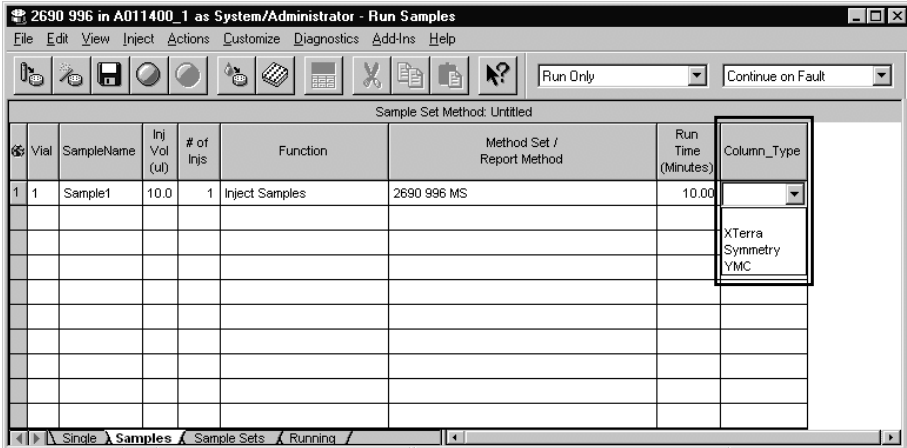
- Field type = Sample
- Field name = Column\_Type
- Will show up in Run Sample as a convenient drop-down list



## Example: Enumerated Sample Type Custom Field



## Example: Enumerated Sample Type Custom Field



## Enumerated Custom Fields

- Useful examples:
  - ❑ Column details
  - ❑ Method conditions/ mobile phase / pH
  - ❑ Allowed product codes
  - ❑ Sample descriptions, sample matrix
  - ❑ Storage Conditions
  - ❑ Packing Material

## Boolean Custom Fields Example

### ➤ Boolean Calculated Field

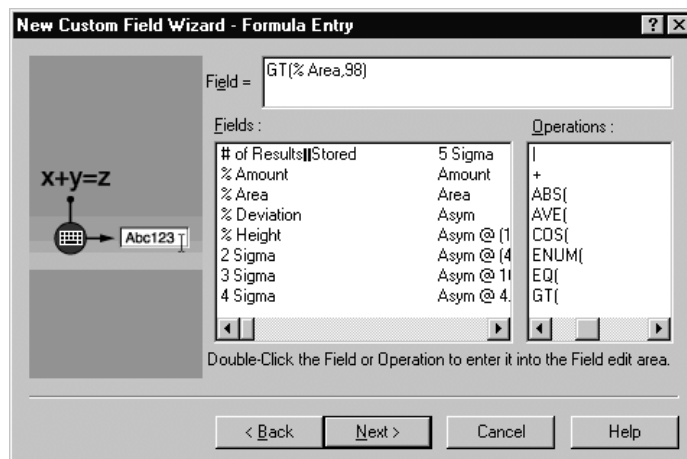
#### □ Syntax:

Function(Field,#)

Example 1: Pct\_Area\_Criteria=GTE(Area%,98)

Any value greater than 98 % returns True  
and you can change the “True” expression in the  
Translation Definition Table to 'Good'.

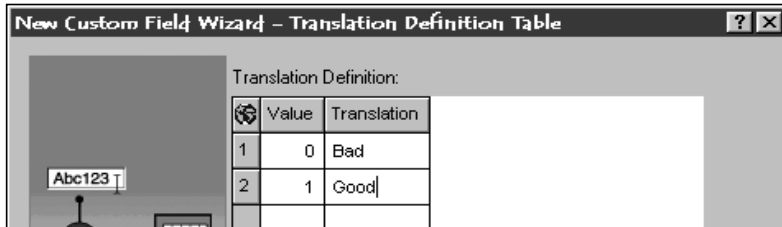
## Boolean Example 1 (cont.)



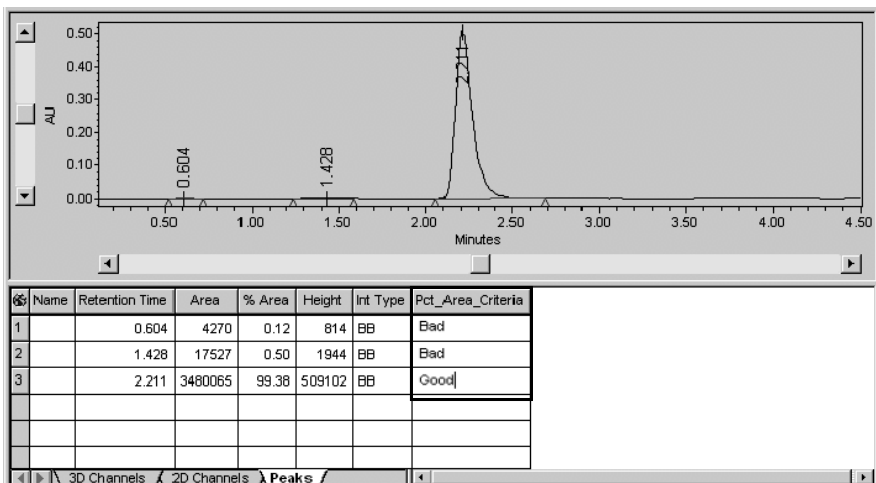
## Boolean Example 1 (cont.)

### ➤ Translation Definition Table

- ❑ Allows strings to be assigned to return values for the field
- ❑ These are text strings... not real numbers



## Boolean Example 1 (cont.)



## Enumerated Custom Fields Calculated (Peak or Result)

### ➤ **Enum Data type:**

- ❑ One or more Boolean expressions (True/False)
- ❑ Syntax:
  - ❖ ENUM(Function(Field,#),Function(Field,#)etc.)
- ❑ Evaluated in order: first true expression encountered (left to right) determines the output value
- ❑ The output of the formula can be more than two values
- ❑ When the software finds an expression that is true, the translation table is used to supply the response
- ❑ Must have one true expression

## Enumerator Custom Fields Calculated

### ➤ **Example 2:**

- ❑ ENUM(LTE(% Deviation,1),RANGE(% Deviation,1,3),GT(% Deviation,3))

#### ❑ **Translation:**

- ❖ If the % Deviation is less than or equal to 1, then "0" = "Excellent"
- ❖ If the % Deviation is between 1 and 3 (or equal to 3), then "1" = "Acceptable"
- ❖ If the % Deviation is greater than 3, then "2" = "Not Acceptable"

## Enumerated Custom Fields Calculated

Field =

**New Custom Field Wizard - Formula Entry** [?] [X]

Field =

**X+y=Z**

**Fields :**


# of Results	Stored	5 Sigma
% Amount		Amount
% Area		Area
% Deviation		Asym
% Height		Asym @ 1
2 Sigma		Asym @ 4
3 Sigma		Asym @ 11
4 Sigma		Asym @ 41

**Operations :**

GTE(
LN(
LOG(
LT(
LTE(
MAX(
MIN(
NEQ(

Double-Click the Field or Operation to enter it into the Field edit area.

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## Enumerated Custom Fields Calculated

**New Custom Field Wizard - Translation Definition Table** [?] [X]

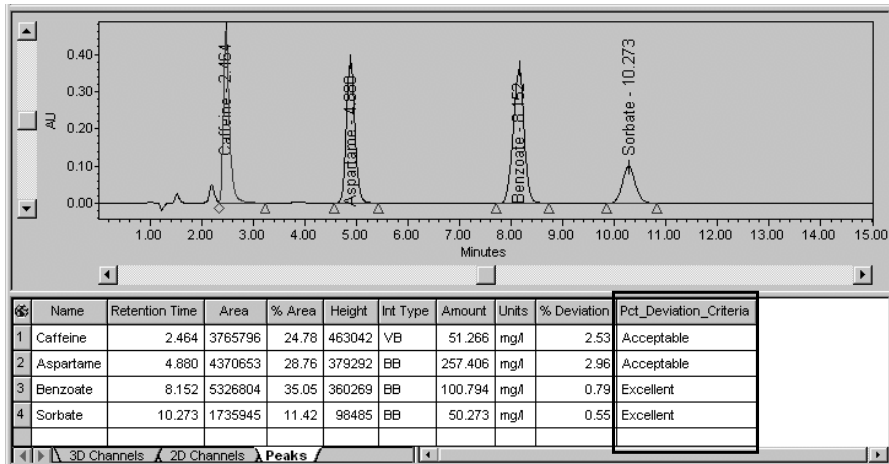
**X+y=Z**

**Translation Definition:**

Value	Translation
1	0 Excellent
2	1 Acceptable
3	2 Not Acceptable

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## Enumerated Custom Fields Calculated



## ROUND

- The rounding function allows you to round large numbers in calculations. You can use the round function in the New Custom Field Wizard – Formula Entry page.
- ROUND (field,#)
- For example:
  - ROUND(25.678,0) will be rounded to 26
  - ROUND(256575.36,3) will be rounded to 257000
  - ROUND(25.657536,-3) will be rounded to 25.658