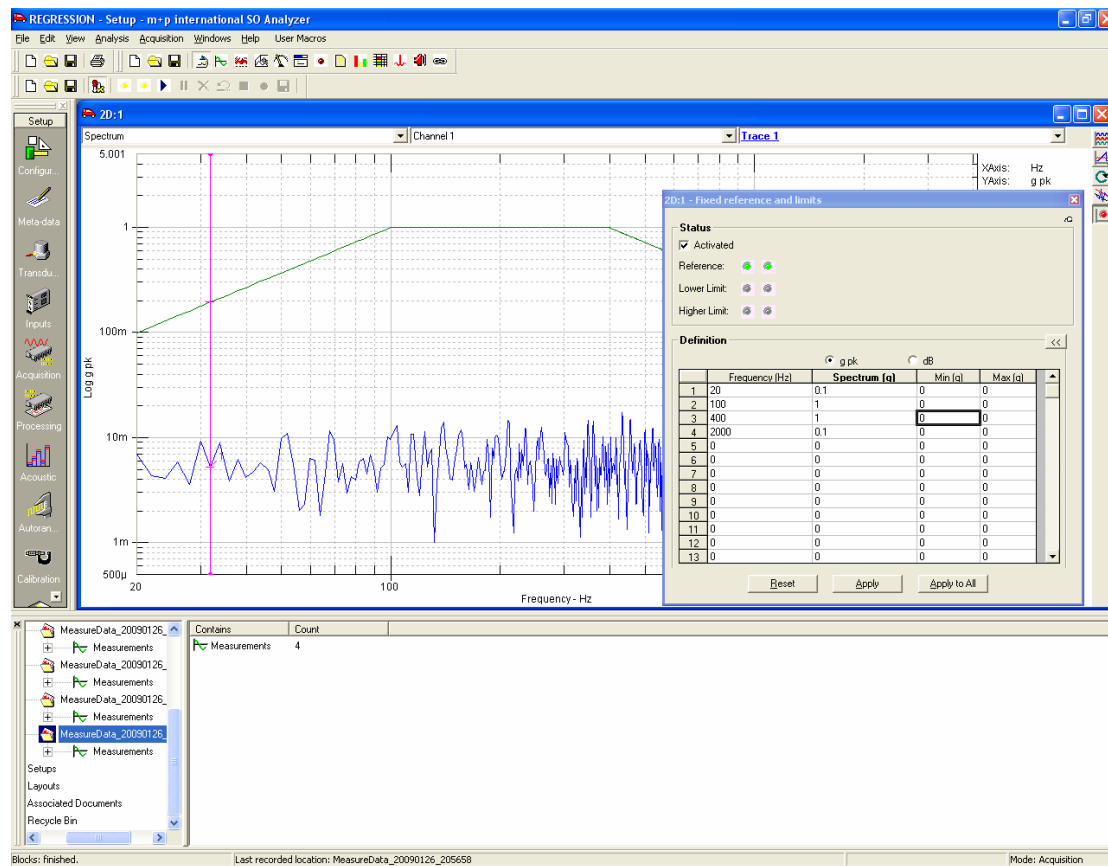


## Using the 2D Chart Fixed Reference and Limits Overlay Tool

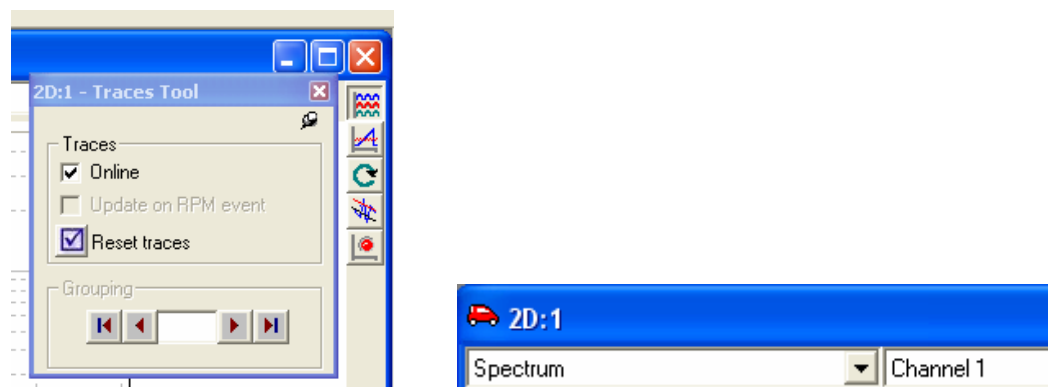


The Fixed Reference facility displays fixed overlay traces with on-line data in 2D charts. It is selected by a tool button in the 2D chart and each can be set with different overlays if required. The user can set up a reference with max/min limit traces using a simple break point table. These traces will then be overlaid with the chosen on-line data.

The on-line data is also compared with the ref and limits data and red/green LED indicators show if the measurement is above or below these limits.

### Set-up

First set the chart to on-line mode and set the type of measurement function required. The data unit to be used is selected from the selected channel setting.



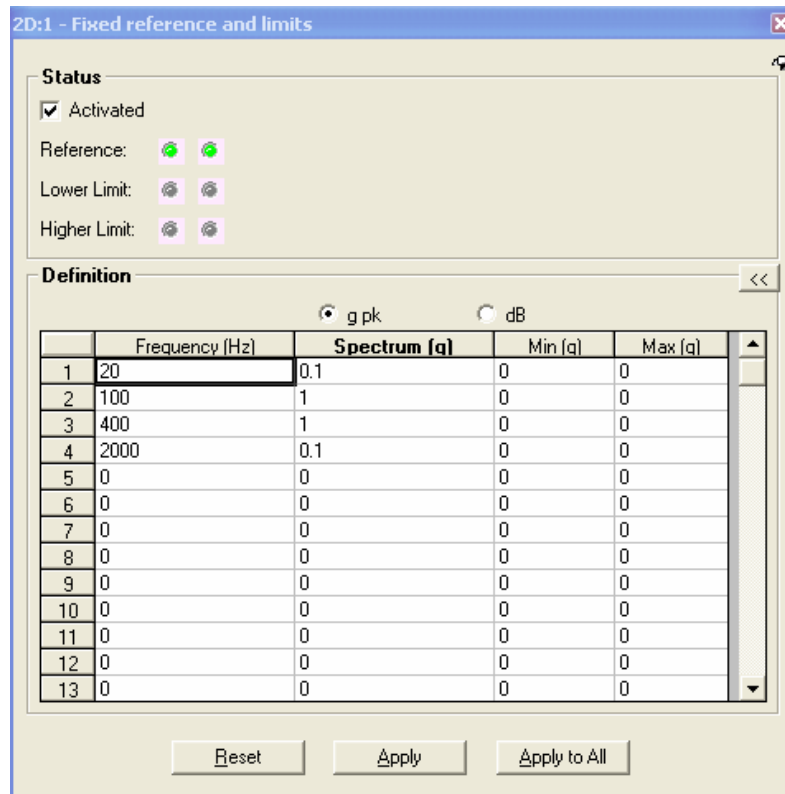
Then click the Fixed Reference Tool button.



The Definition button toggles the breakpoint table.



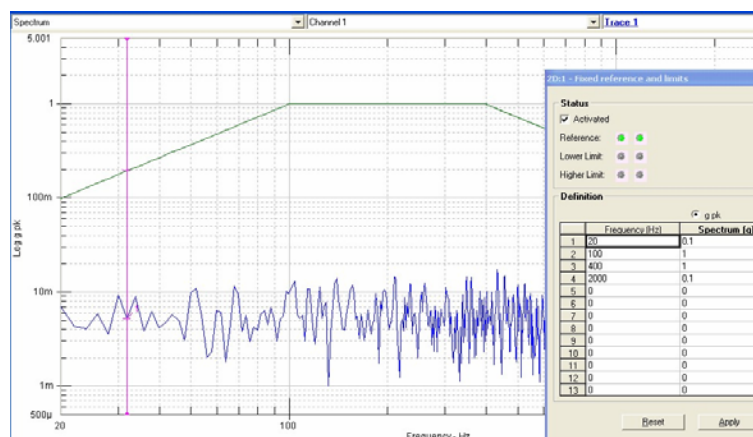
Enter your required reference trace or limits in the break point table noting the radio button option to display and set these values in absolute units or dB.



If required click the Reset button to set the current table to your newly selected function type or units prior to entering your data values.

Once entered click Apply to see the trace(s) in the on line chart.

The Apply to All button copies the settings to all open on-line charts.

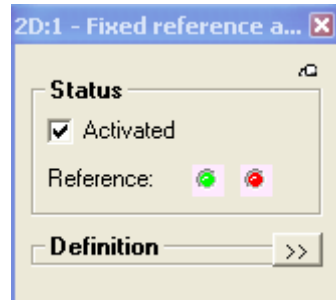


Reference overlays will only be seen if the function and units in the breakpoint table match the on-line display setting.

## Limits exceeded indicators

Each on-line trace update is compared with the reference, upper and lower limits and green/red LED indicators show the current limit status.

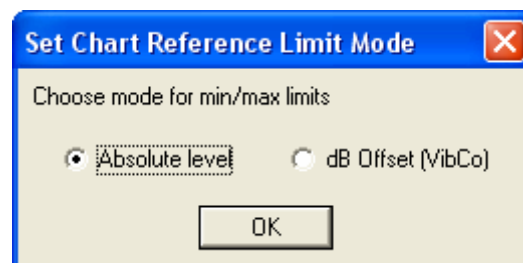
For the reference and upper limits, red indicates the on-line data is above the line, green below. For the lower limit, red is below and green above.



The left LED is for the current trace and the right remembers the red status for the entire measurement run.

## Choice of Limits Format

Limits can be entered as absolute levels or as +/- tolerance limits in dB (VibCo mode). This setting is available as a configuration setting only and is adjusted using the UserProgram "Set Chart Reference Mode". Once set this will be updated in the Ref Tool window the next time it is opened by the tool button.



Absolute:

Definition				
		<input checked="" type="radio"/> g pk	<input type="radio"/> dB	
	Frequency (Hz)	Spectrum [g]	Min (g)	Max (g)
1	20	.1	.05	.15
2	100	1	.5	1.5
3	400	1	.5	1.5
4	2000	.1	.05	.05

Tolerance:

Definition				
		<input checked="" type="radio"/> g pk	<input type="radio"/> dB	
	Frequency (Hz)	Spectrum [g]	-Tol (dB)	+Tol (dB)
1	20	0.1	-6	6
2	100	1	-6	6
3	400	1	-6	6
4	2000	0.1	-6	6