# Agilent CSA Firmware & Measurement Personality Revision History

## Version A.02.07
- Released June 2010
- Fixed abnormal readout of maker when in Y-axis in dBuV unit
- Fixed abnormal function of knob when Y-axis in Vots or dBuV
- Fixed failed to set the frequency by channel standard
- Fixed wrong readout of demodulation peak/2 detector

## Version A.02.06
- Released November 14, 2007

## Spectrum Analyzer Mode
- CSA A.02.05 Marker Problems (Marker jump for sweeps of greater than 10 s fixed)
- Firmware fix for new front panels

## Version A.02.05
- Released October 25, 2007

## Spectrum Analyzer Mode
- Zero Span Marker Jump
- CSA gives wrong reading in remote query
- Null handle on ScpiConnect object

## Version A.02.04
- Released June 20, 2007

## Spectrum Analyzer Mode
- Fixed Server Error Message still says "Base Station Test Set
- Fixed Virtually impossible to select 50 MHz VBW with step keys
- CSA 2.0 Hanged up at Measurement Server Failure

# Version A.02.03
   o Released April 24, 2007


## Spectrum Analyzer Mode
   o Fixed Y-axis scaling in Linear with Y-Axis Units of Watts
   o Fixed Save Trace so that Center Freq, Ref Level, and Scale/Div are also saved


# Version A.02.02
   o Released March 27, 2007


## New Features
   o Greater than 7 screen updates/sec in Spectrum Analyzer mode
   o Pulse measurement capability (ability to set sweep time and select triggers in non-zero span)
   o AM/FM tune and listen (N1996A-AFM)
   o AM/FM modulation analysis (N8996A-1FP)
   o New options N8995A-SR3 (equivalent to N1996A-TG3 plus N8995A) and N8995A-SR6
      (equivalent to N1996A-TG6 plus N8995A)


# Version A.01.13
   o Released January 25, 2007


## Memory Partition
   o Changes the memory partition of A.01.12 and earlier to the partition version of A.02.00
   o Maintains the functionality of A.01.12


# Version A.01.12
   o Released October 10, 2006


## Spectrum Analyzer Mode:
   o Enhanced residual responses performance
   o Reduced spurious level when 15 MHz signal is applied
   o System Stats>Memory statistics screen updated to show correct memory allocation
   o Improved amplitude accuracy when in wide span and narrow RBW (i.e. 1.2 MHz span and 30 Hz
      RBW)

# Version A.01.11
o Released May 24, 2006

## Stimulus/Response Measurements (Option N8995A)
o Fixed an issue in re-sampling the calibration data for 3 GHz instruments (Option 503)

# Version A.01.10
o Released May 19, 2006

## Spectrum Analyzer Mode:
o Changed label of 'Center Frequency' softkey to 'Center Freq'
o Changed label of 'Freq Step' softkey to 'CF Step'   o Removed the "Preamp Off" annotation when the option is not enabled
o Pressing Clear Write was triggering a sweep when in Single Sweep
o Fixed a problem with saving and recalling multiple traces
o Markers were jerky and unresponsive when moved using the knob
o In single sweep, changing from Log to Lin Y-scale was not changing the display until another sweep was taken
o Marker Delta position could be out of sync after changing the center frequency
o Fixed a problem with selecting multiple markers on multiple traces
o Step keys were not changing the zero span sweeptime in 1-2-5 sequence
o Fixed a problem with marker delta value when marker readout is set to time
o Occupied Power results in Occupied Bandwidth Measurement were not being displayed with the current amplitude units

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# Version A.01.13

 o Released January 25, 2007

## Memory Partition

   o Changes the memory partition of A.01.12 and earlier to the partition version of A.02.00
   o Maintains the functionality of A.01.12

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# Version A.01.12

 o Released October 10, 2006

## Spectrum Analyzer Mode:

   o Enhanced residual responses performance
   o Reduced spurious level when 15 MHz signal is applied
   o System Stats>Memory statistics screen updated to show correct memory allocation
   o Improved amplitude accuracy when in wide span and narrow RBW (i.e. 1.2 MHz span and 30 Hz RBW)

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# Version A.01.11

 o Released May 24, 2006

## Stimulus/Response Measurements (Option N8995A)

   o Fixed an issue in re-sampling the calibration data for 3 GHz instruments (Option 503)

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## Remote Interface:

o Limit Masks values were not using the current y-axis units in remote operation
o Added Trigger type specific remote commands
o Trace 2/3/4 queries were not returning correct values with a limited number of trace points
o While doing a remote Save or Recall a Server Error Screen could be briefly displayed
o The :SENSe:OBWidth:PERCent remote command would not accept PCT as a valid unit

## Spectrogram (Option 271)

 o Option is now supported

## Channel Analyzer

   o Changed label of 'Adjacent Channel Power' softkey to 'ACP (I&M)'
   o Changed label of 'Center Frequency' softkey to 'Center Freq'
   o Changed label of 'Freq Step' softkey to 'CF Step'
   o Revised the list of Formats directly supported

o Limit Masks would flash after Mode Preset was pressed while Limit Masks were on

**Stimulus/Response Measurements (Option N8995A)**

o Speed of measurements improved by nearly 50%
o Trace Display and Update keys were not getting updated properly after a preset if multiple traces where used
o Number of Averages from the front panel was limited to only 100 instead of 4096

**Distance to Fault:**

o Would not allow the decimal point to be entered for marker value    o Limit mask units were incorrect, dBm instead of dB
o Fixed a problem when multiple segments of the Limit Masks are used
o Display was not updating properly when used in single sweep with trace averaging on
o Feet units did not have same precision as meters
o Erroneous display annotations below x-axis annotation
o Problem causing the factory cal to be used instead of the user performed calibration
o Changed the Limit Mask 1st Segment Right and Left Spans Preset values to 20ms

**Return Loss:**

o Narrowing the frequency range was invalidating the user calibration
o No preset values for the Limit Mask parameters were being set

**Two Port Insertion Loss:**

o Marker X value was not always being set properly via the remote interface due to the even number of trace points used
o The :CALCulate:TPILoss:MARKer[1]|2|3|4:X remote command would not accept GHz|MHz|kHz|Hz frequency suffixes as valid Units

# Version A.01.01
o Original Release

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