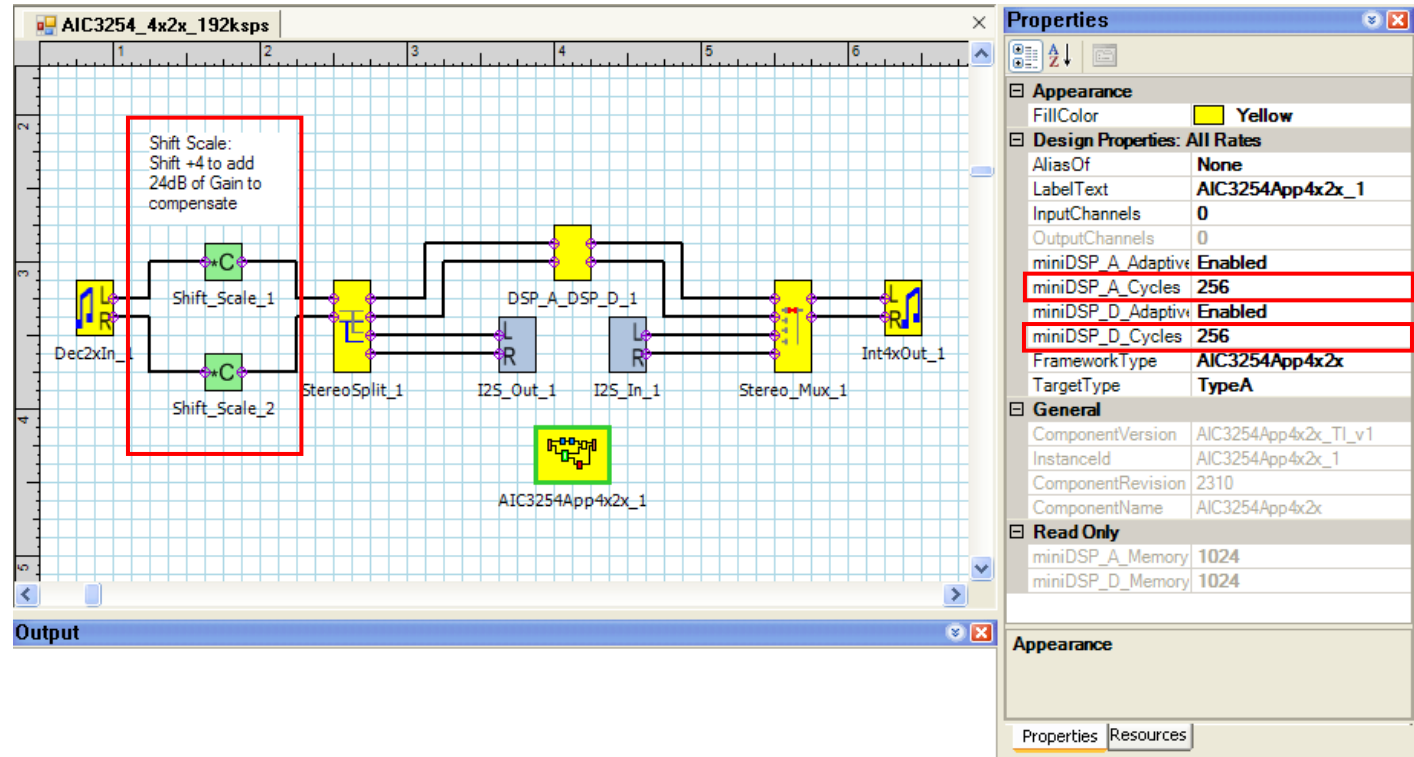# PurePath Configuration

- A shift scale component can be used to add 24dB of Gain to compensate for the loss.

- miniDSP_A cycles must be set less than or equal to MADC*AOSR.

- miniDSP_D cycles must be set less than or equal to MDAC*DOSR.

- Audio is sent to the I2S bus.

- Mux selects DAC audio path.

PurePath Configuration

- This is a case that requires a special configuration. PurePath can be configured to load a script after downloading the miniDSP code to re-configure Page 0 and Page 1 registers.

- AIC3254_4x2x_192ksps_Patch.cfg reconfigures the clocking for an OSR of 32.
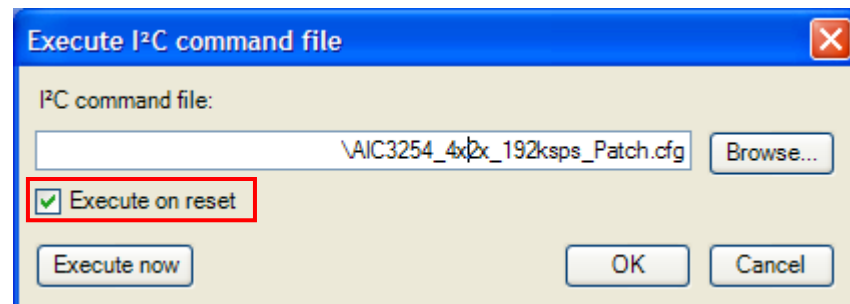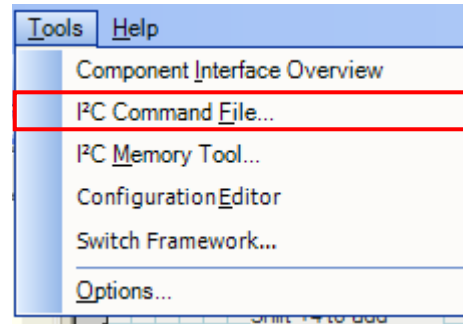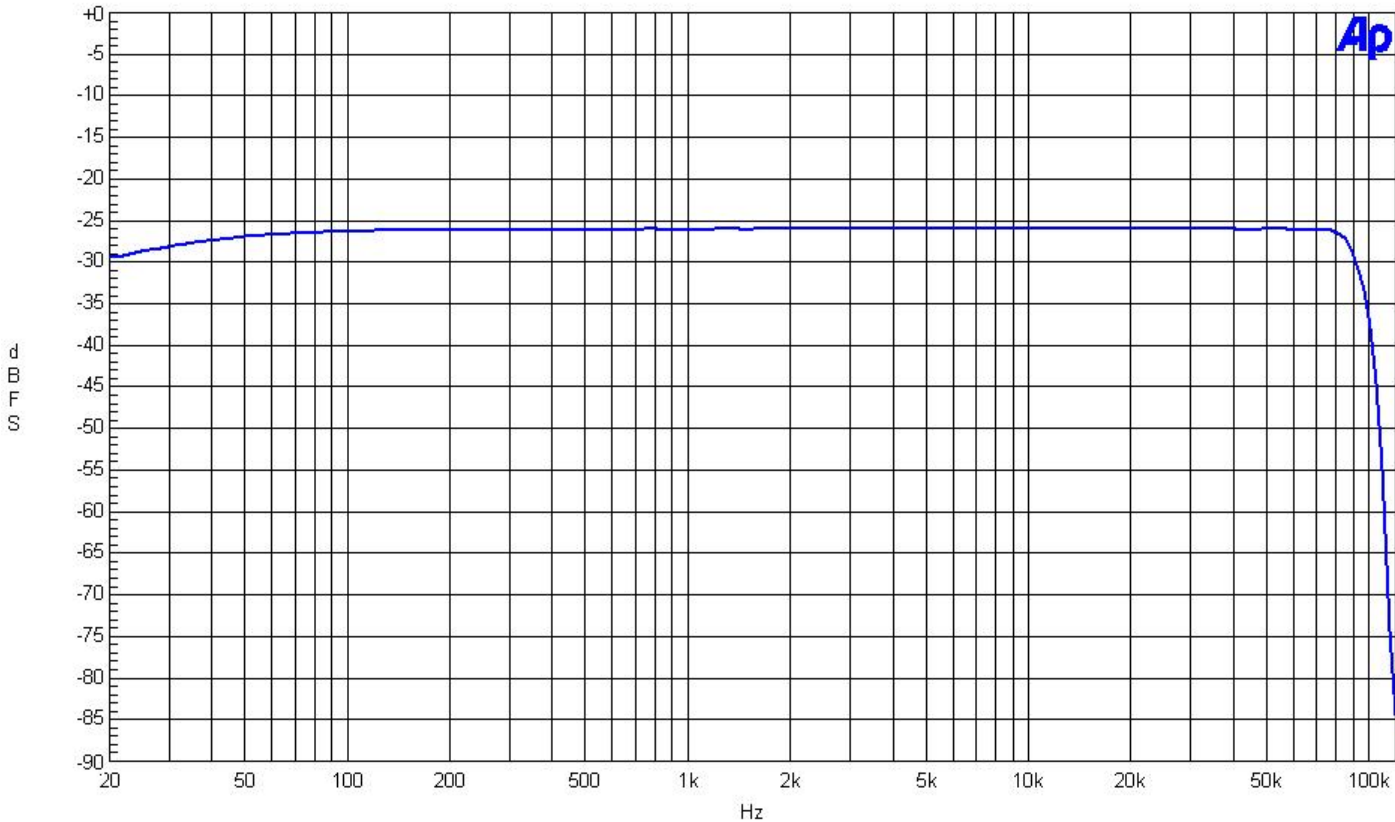
EVM Configuration

- USB 1.1 bandwidth does not allow 192ksps. An external audio interface must be connected to the USB-MODEVM's J14 and SW2.4-SW2.5 set to OFF.

- Codec is I2S Slave.

TEXAS INSTRUMENTS

Frequency Response
AIC3254_4x2x, 192kHz, AOSR=32, -2dB input signal, 0dB compensation

1kHz Tone FFT
AIC3254_4x2x, 192kHz, AOSR=32, -2dB input signal, 0dB compensation

Texas Instruments   12/04/09 21:56:14

Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	2	Fft.Ch.1 Ampl	Left	

TEXAS INSTRUMENTS

80kHz Tone FFT
AIC3254_4x2x, 192kHz, AOSR=32, -2dB input signal, 0dB compensation

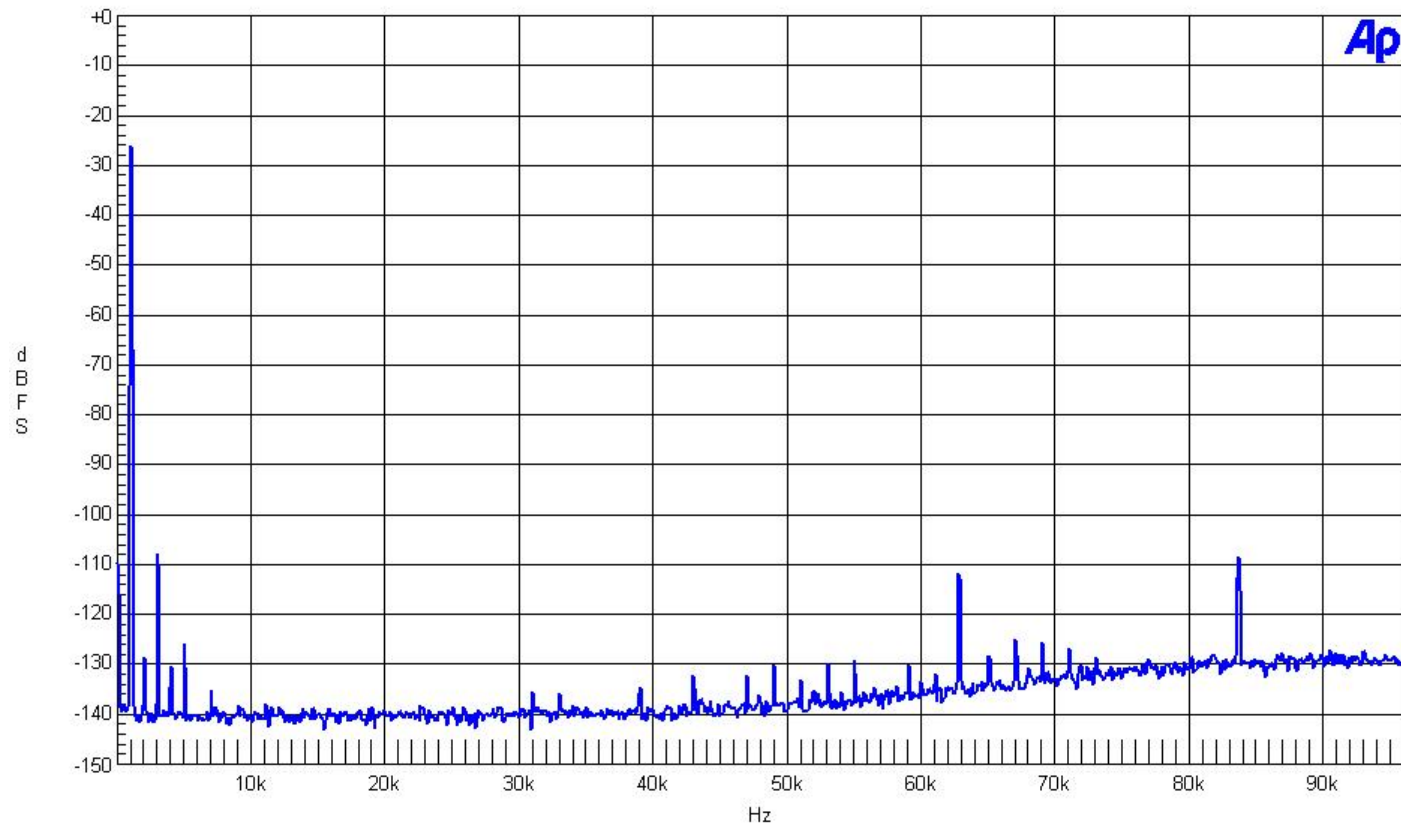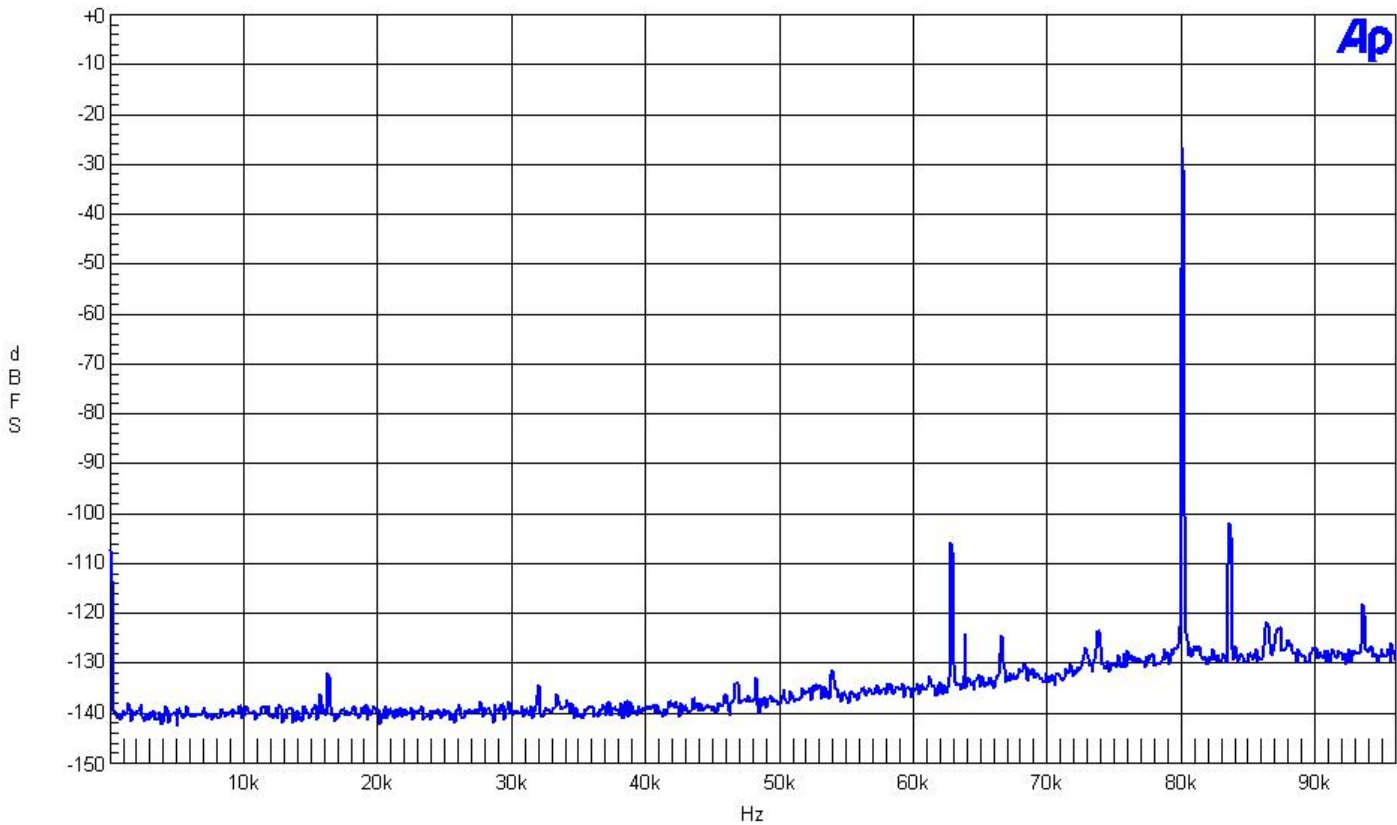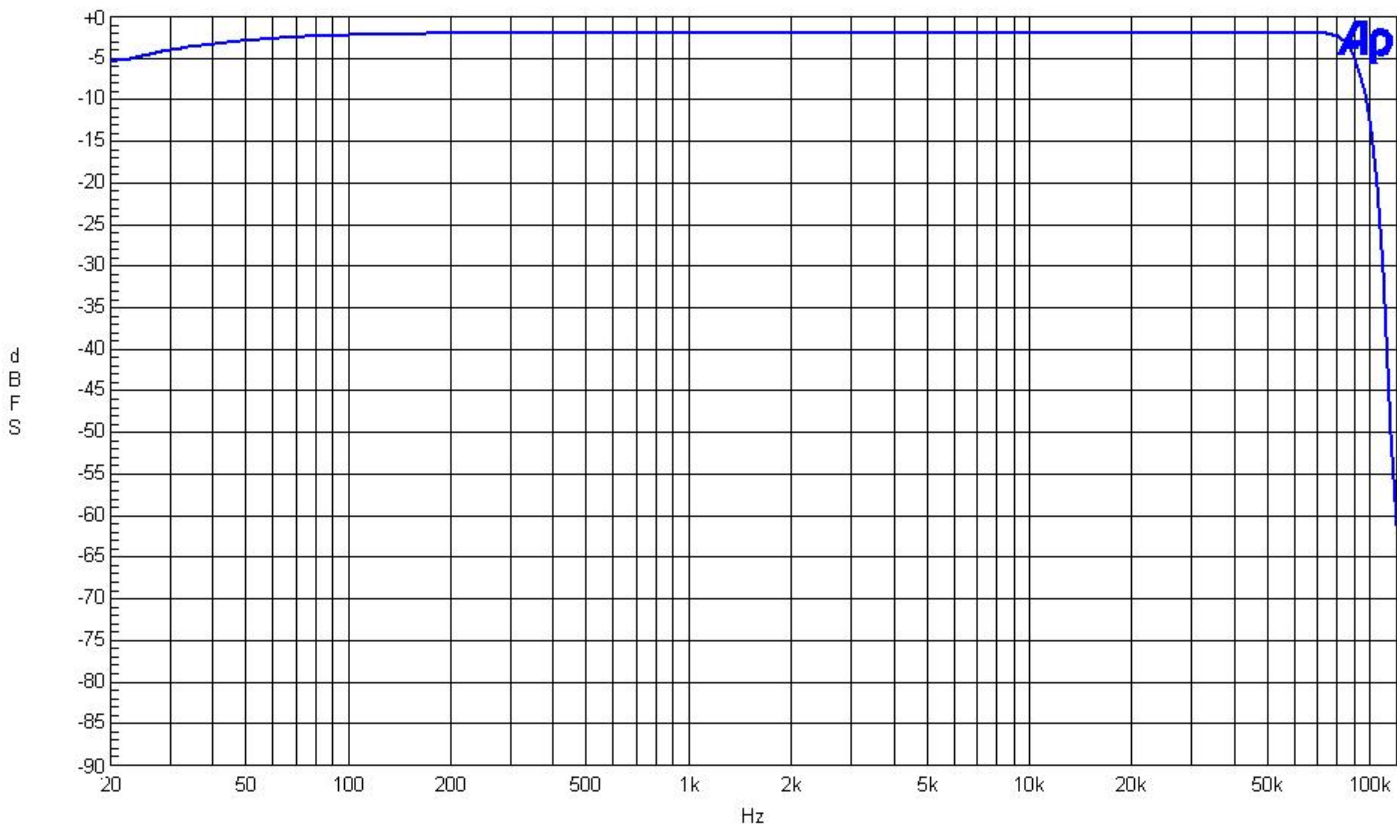Texas Instruments   12/04/09 21:55:16

Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	2	Fft.Ch.1 Ampl	Left	

TEXAS INSTRUMENTS

Frequency Response
AIC3254_4x2x, 192kHz, AOSR=32, -2dB input signal, 24dB compensation

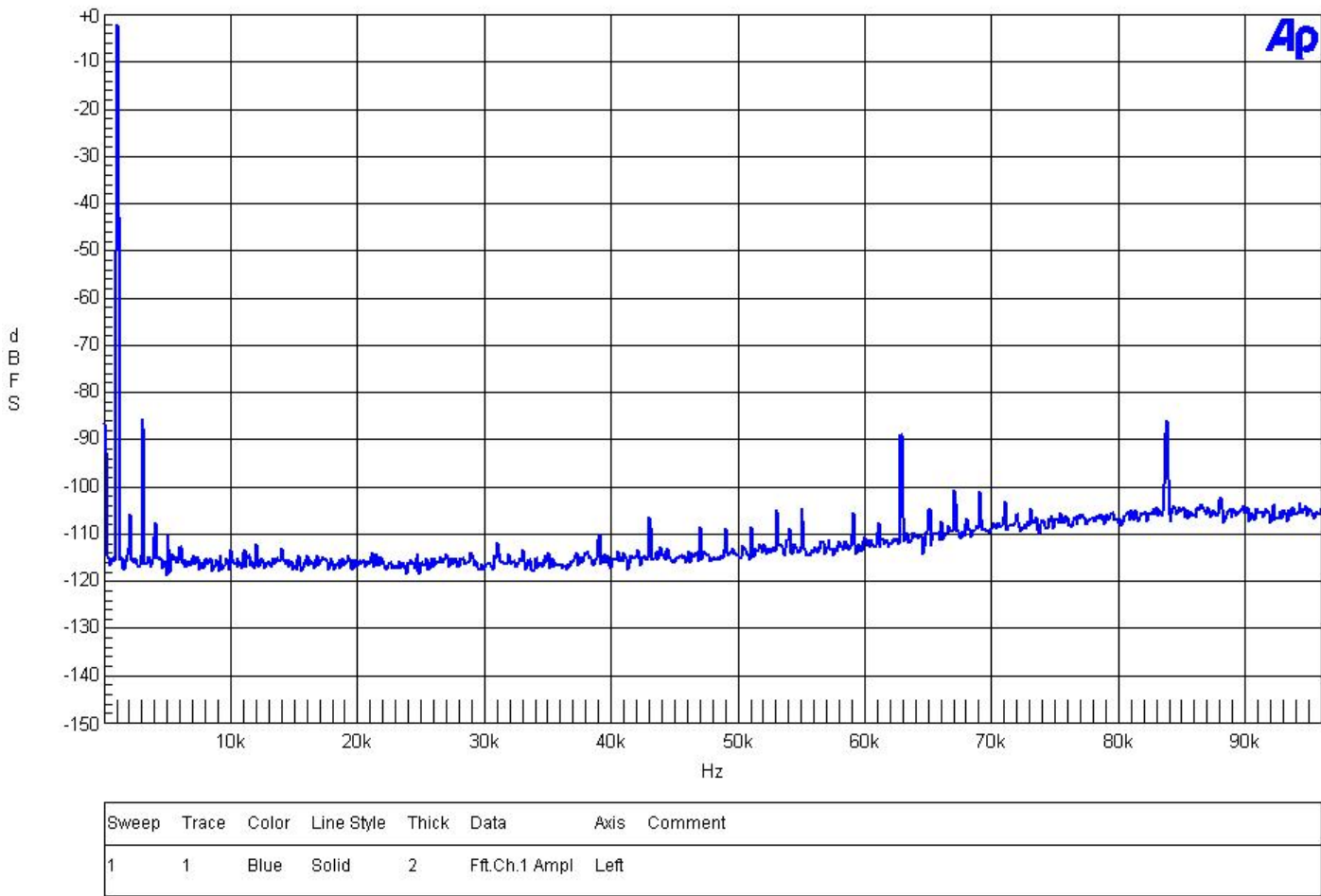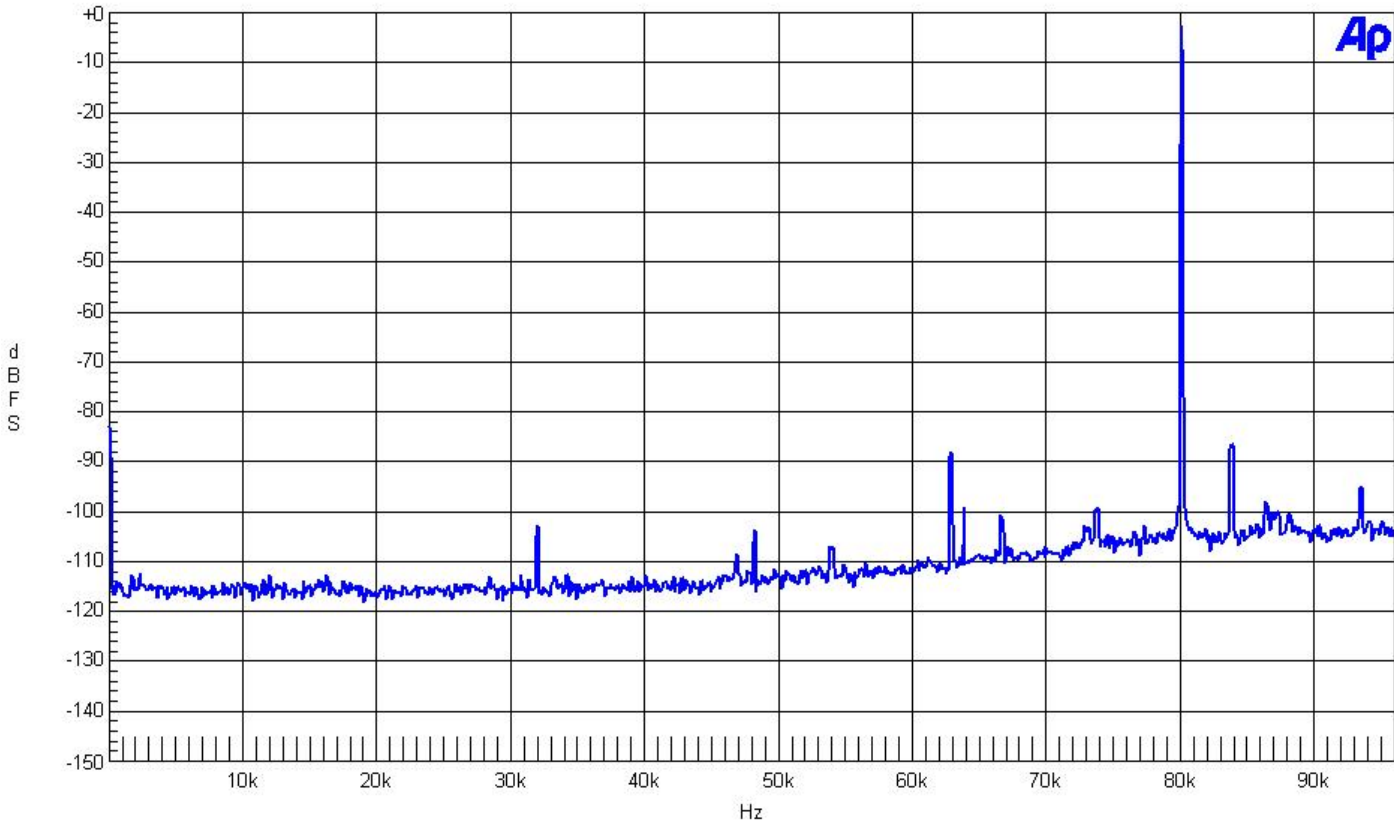Texas Instruments   12/04/09 21:34:18

Sweep	Trace	Color	Line Style	Thick	Data	Axis	Comment
1	1	Blue	Solid	2	DSP Anlr.Level A	Left	

TEXAS INSTRUMENTS

1kHz Tone FFT
AIC3254_4x2x, 192kHz, AOSR=32, -2dB input signal, 24dB compensation

TI Information – Selective Disclosure

80kHz Tone FFT
AIC3254_4x2x, 192kHz, AOSR=32, -2dB input signal, 24dB compensation