KTE May USB ASIO 44K Bal 160 dBFS scale REPORT

Overall Result: PASS

SUMMARY:	RESUL
A01 Ampl, Phase, Gain	\checkmark
A02 Ampl, Phase vs Freq	\checkmark
A03 Gain vs Ampl	\checkmark
A04 THD+N,THD, nth-HD	\checkmark
A05 THD+N vs Freq	\checkmark
A06 THD+N vs Ampl	\checkmark
A07 Noise, DNR	\checkmark
A08 Crosstalk A to B	\checkmark
A09 Crosstalk B to A	\checkmark
A10 Crosstalk A to B vs Freq	\checkmark
A11 Crosstalk B to A vs Freq	\checkmark
A12 FFT 1000 Hz THD+N	\checkmark
A13 FFT 50+7000Hz	\checkmark
A14 FFT 600+1700 Hz	\checkmark
A15 FFT 19+20 KHz	\checkmark
A16 FFT residual noise	\checkmark
A17 FFT -90 dBFS	OK
A18 FFT -90 dBFS 16 bit	OK
A19 FFT imaging	OK
A20 FFT inferred jitter	OK

KEY: $\sqrt{}$ = Test passes, X = Test fails, OK = Test has run but has no limit checking, (X) = Test has failed to run or has not completed,

[v] = Test passes but is not required, [X] = Test fails but is not required, ? = Test is required but has not been run.

- = Test is not required.

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A01 Ampl, Phase, Gain: PASSED

Measured at 2/7/2020 3:15:46 PM

Generator Settings	
Channel A:	sine, 0 dBFS at 1000 Hz
Channel B:	sine, 0 dBFS at 1000 Hz

RMS amplitude (Channel A)	17.471 dBu	< 24 dBu > -20 dBu
RMS amplitude (Channel B)	17.493 dBu	< 24 dBu > -20 dBu
Inter-channel phase	-0.01 °	< 10 ° > -10 °

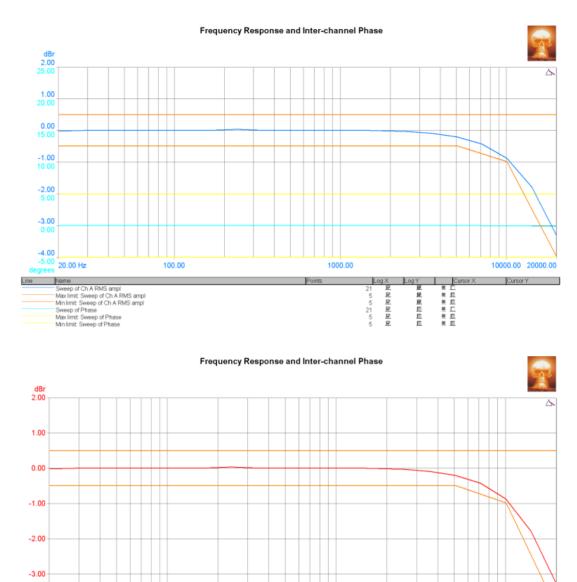
CTA Readings		
Gain (Channel A RMS)	0.001 dB	< 20 dB > -40 dB
Gain (Channel B RMS)	0.023 dB	< 20 dB > -40 dB
Settings: Generator relative, 22 Hz - 22 kHz, unweighted RMS with 1/3rd octave band-pass filter at the generator frequency		

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A02 Ampl, Phase vs Freq: PASSED

Measured at 2/7/2020 3:15:49 PM

Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz





A03 Gain vs Ampl: PASSED

Measured at 2/7/2020 3:15:58 PM

Generator Settings	
Channel A:	sine, -6 dBFS at 1000 Hz
Channel B:	sine, -6 dBFS at 1000 Hz



A04 THD+N,THD, nth-HD: PASSED

Measured at 2/7/2020 3:17:03 PM

Generator Settings	
Channel A:	sine, 0 dBFS at 1000 Hz
Channel B:	sine, 0 dBFS at 1000 Hz

CTA Readings		
THD+N - relative (Channel A RMS)	0.00048 %	< 200 % > 0 %
THD+N - relative (Channel B RMS)	0.00038 %	< 200 % > 0 %
Cattinger Calification 22 Lts 2014 A EC17 ununinglyted DMC with 1/12th actions hand might filter at the generator fragment		

Settings: Self relative, 22 Hz - 20kHz AES17, unweighted RMS with 1/12th octave band-reject filter at the generator frequency

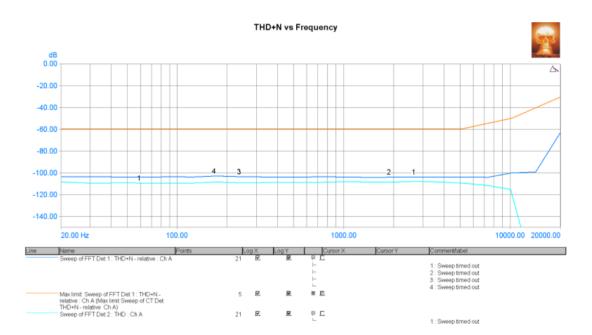
FFT Detector Readings		
THD (Channel A)	0.00032 %	< 200 % > 0 %
THD (Channel B)	0.00019 %	< 200 % > 0 %
FFTD 1 Settings: Self relative, 22 Hz - 20kHz AES17, unweighted with band-pass notch filters from	n the 2nd to 10th harmonics	
2nd Harmonic Distortion (Channel A)	0.00010 %	< 200 % > 0 %
2nd Harmonic Distortion (Channel B)	0.00003 %	< 200 % > 0 %
FFTD 2 Settings: Self relative, 22 Hz - 20kHz AES17, unweighted with band-pass notch filter at the 2nd harmonic		
3rd Harmonic Distortion (Channel A)	0.00022 %	< 200 % > 0 %
3rd Harmonic Distortion (Channel B)	0.00009 %	< 200 % > 0 %
FFTD 3 Settings: Self relative, 22 Hz - 20kHz AES17, unweighted with band-pass notch filter at the	e 3rd harmonic	
THD+N - relative (Channel A)	0.00034 %	< 200 % > 0 %
THD+N - relative (Channel B)	0.00021 %	< 200 % > 0 %
FFTD 4 Settings: Self relative, 22 Hz - 20KHz AES17, unweighted with window notch (14 bins) band-reject filter at the input frequency		

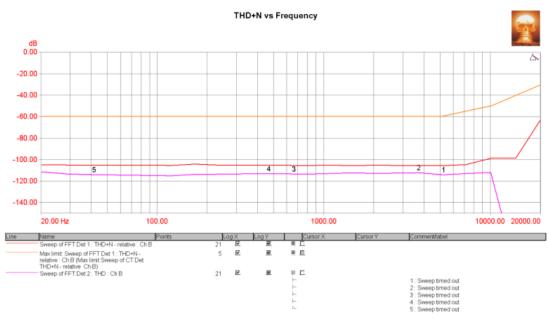
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A05 THD+N vs Freq: PASSED

Measured at 2/7/2020 3:17:15 PM

Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz



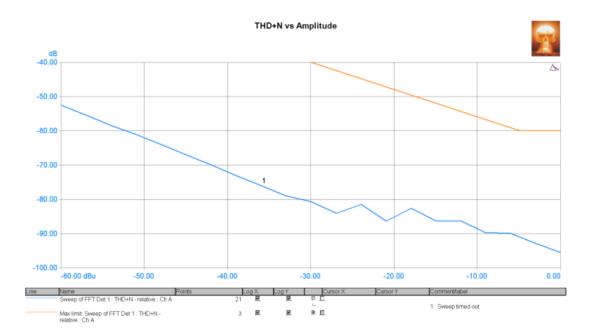


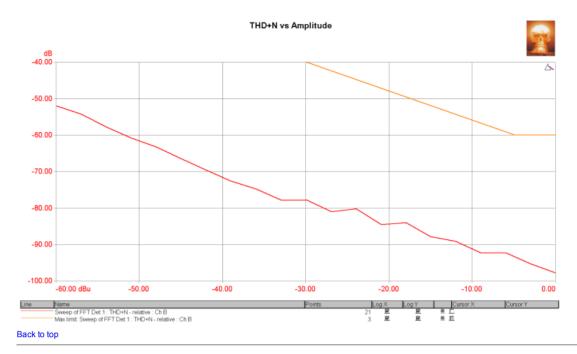
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A06 THD+N vs Ampl: PASSED

Measured at 2/7/2020 3:19:00 PM

Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz





A07 Noise, DNR: PASSED

Measured at 2/7/2020 3:36:22 PM

Generator Settings	
Channel A:	sine, -60 dBFS at 1000.488 Hz
Channel B:	sine, -60 dBFS at 1000.488 Hz

FFT Detector Readings		
Noise (unweighted) (Channel A)	-121.460 dBr	Not limit checked.
Noise (unweighted) (Channel B)	-121.951 dBr	Not limit checked.
FFTD 1 Settings: 22 Hz - 20kHz AES17, unweighted with window notch (14 bins) band-reject filter at the generator frequency		
Noise (unweighted) (Channel A)	-121.567 dBr	Not limit checked.
Noise (unweighted) (Channel B)	-122.142 dBr	Not limit checked.
FFTD 2 Settings: 22 Hz - 20kHz AES17, unweighted with 1/3rd octave band-reject filter at the generator frequency		
DAC DNR Residual Async	138.934 dB	< 150 dB > 60 dB
DAC DNR Residual Async	140.164 dB	< 150 dB > 60 dB
FFTD 3 Settings: User: DAC SNR Residual Async		

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A08 Crosstalk A to B: PASSED

Measured at 2/7/2020 3:19:48 PM

Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz

CTA Readings		
Cross-talk (Channel B RMS)	-159.190 dB	< -45 dB
Settings: Channel relative, 22 Hz - 22 kHz, unweighted RMS with 1/24th octave band-pass filter at the opp	posite channel generator frequency	
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A09 Crosstalk B to A: PASSED

Measured at 2/7/2020 3:19:55 PM

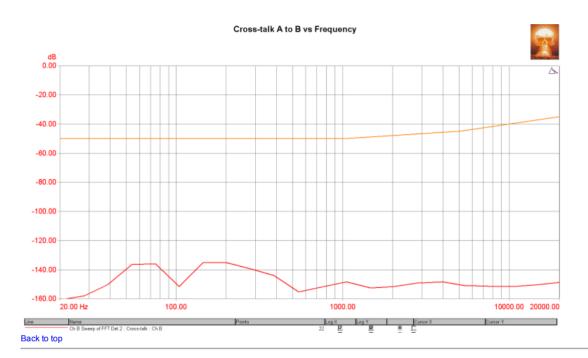
Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz

CTA Readings		
Cross-talk (Channel A RMS)	-155.194 dB	< -45 dB
Settings: Channel relative, 22 Hz - 22 kHz, unweighted RMS with 1/24th octave band-pass filter at the opposite channel	generator frequency	
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A10 Crosstalk A to B vs Freq: PASSED

Measured at 2/7/2020 3:20:01 PM

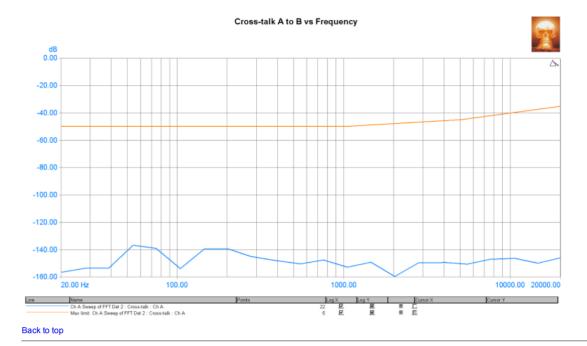
Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz



A11 Crosstalk B to A vs Freq: PASSED

Measured at 2/7/2020 3:20:59 PM

Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz



A12 FFT 1000 Hz THD+N: PASSED

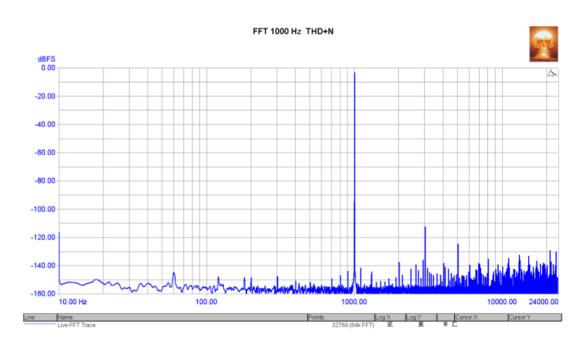
Measured at 2/7/2020 3:21:53 PM

Generator Settings	
Channel A:	sine, -3 dBFS at 1000 Hz
Channel B:	sine, -3 dBFS at 1000 Hz

Signal Analyzer Readings		
RMS amplitude (Selected : Ch A)	14.471 dBu	Not limit checked.
RMS amplitude (Non-selected : Ch A)	14.493 dBu	Not limit checked.

CTA Readings		
THD+N - relative (Selected : Ch A RMS)	0.00058 %	< 0.075 % > 0.00000001 %
THD+N - relative (Non-selected : Ch A RMS)	0.00048 %	< 0.075 % > 0.00000001 %

Settings: Self relative, 22 Hz - 20kHz AES17, unweighted RMS with 1/3rd octave band-reject filter at the input frequency



FFT 1000 Hz THD+N dBFS 0.00 -20.00 -40.00 -60.00 -80.00 -100.00 -120.00 Hitte -140.00 hitte the -160.00 10.00 Hz mm 1000.00 100.00 10000.00 24000.00
 Points
 Log X
 Log Y
 Cursor X
 Cursor Y

 32769 (64k FFT)
 E
 III
 E
 III
Line Name Live FFT Trace

FFT Detector Readings		
THD+N - relative (Channel A)	0.00042 %	Not limit checked.
THD+N - relative (Channel B)	0.00029 %	Not limit checked.
EETD 1 Sattings: Self relative 22 Hz 20 Hz AES17 unweighted with window notch (14 hins) hand reject filter at the input	frequency	

FFTD 1 Settings: Self relative, 22 Hz - 20kHz AES17, unweighted with window notch (14 bins) band-reject filter at the input frequency

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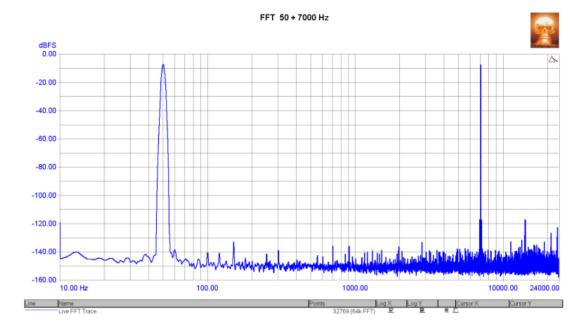
A13 FFT 50+7000Hz: PASSED

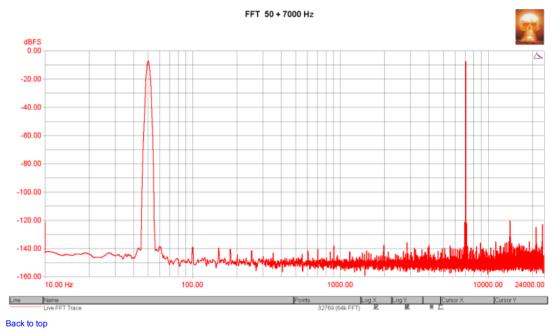
Measured at 2/7/2020 3:23:16 PM

Generator Settings	
Channel A:	Twin-tone, -7 dBFS at 50 Hz and 1 amplitude ratio at 7000Hz
Channel B:	Twin-tone, -7 dBFS at 50 Hz and 1 amplitude ratio at 7000Hz

Signal Analyzer Readings		
RMS amplitude (Channel A)	13.279 dBu	Not limit checked.
RMS amplitude (Channel B)	13.301 dBu	Not limit checked.

CTA Readings		
IMD SMPTE-DIN (Channel A RMS)	0.00032 %	< 0.05 % > 0 %
IMD SMPTE-DIN (Channel B RMS)	0.00018 %	< 0.05 % > 0 %
Settings: Self relative, 22 Hz - 22 kHz, unweighted RMS using SMPTE-DIN IMD demodulation.		





A14 FFT 600+1700 Hz: PASSED

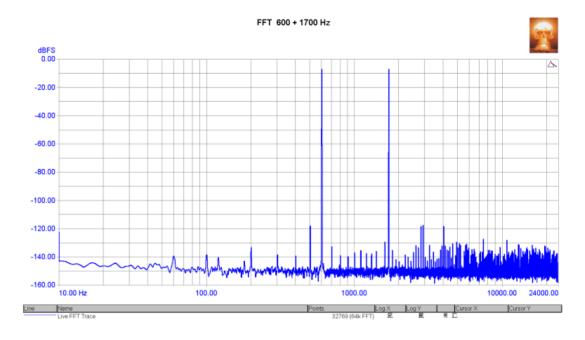
Measured at 2/7/2020 3:23:39 PM

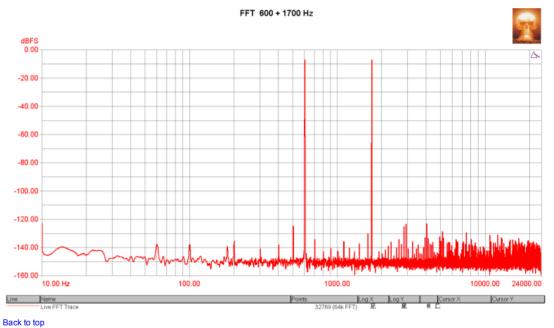
Generator Settings	
Channel A:	Twin-tone, -7 dBFS at 600 Hz and 1 amplitude ratio at 1700Hz
Channel B:	Twin-tone, -7 dBFS at 600 Hz and 1 amplitude ratio at 1700Hz

Signal Analyzer Readings		
RMS amplitude (Channel A)	13.484 dBu	Not limit checked.
RMS amplitude (Channel B)	13.484 dBu	Not limit checked.

CTA Readings		
IMD SMPTE-DIN (Channel A RMS)	0.01271 %	< 0.02 % > 0 %
IMD SMPTE-DIN (Channel B RMS)	0.01274 %	< 0.02 % > 0 %
Outflower Outflower Outflower Outflower International ADMO union ONDEE DIN IND dame duration		

Settings: Self relative, 22 Hz - 22 kHz, unweighted RMS using SMPTE-DIN IMD demodulation.





A15 FFT 19+20 KHz: PASSED

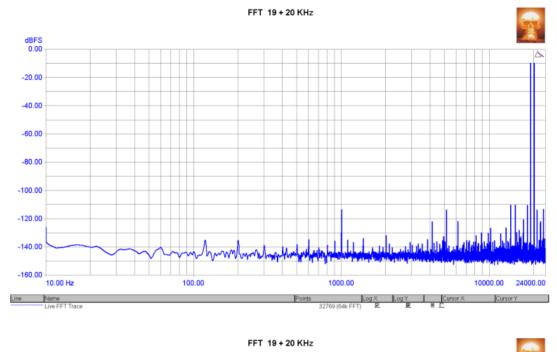
Measured at 2/7/2020 3:24:02 PM

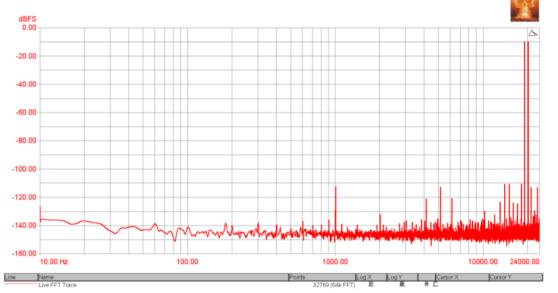
Generator Settings	
Channel A:	Twin-tone, -6.03 dBFS at 19000 Hz and 0 dB offset at 1000 Hz offset
Channel B:	Twin-tone, -6.03 dBFS at 19000 Hz and 0 dB offset at 1000 Hz offset

Signal Analyzer Readings		
RMS amplitude (Channel A)	12.906 dBu	Not limit checked.
RMS amplitude (Channel B)	12.950 dBu	Not limit checked.

CTA Readings		
IMD CCIF (Channel A RMS)	0.00047 %	< 0.1 %
IMD CCIF (Channel B RMS)	0.00050 %	< 0.1 %

Settings: Self relative, 22 Hz - 22 kHz, unweighted RMS with 1/24th octave band-pass filter at the intermodulation difference frequency





FFT Detector Readings		
IMD CCIF (Channel A)	0.00035 %	< 0.1 %
IMD CCIF (Channel B)	0.00040 %	< 0.1 %
FFTD 1 Settings: Self relative, 22 Hz - 22 kHz, unweighted with window notch (14 bins) band-pass filter at the intermodulation	n difference frequency	

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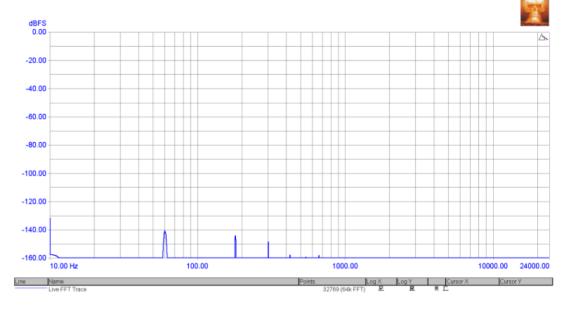
A16 FFT residual noise: PASSED

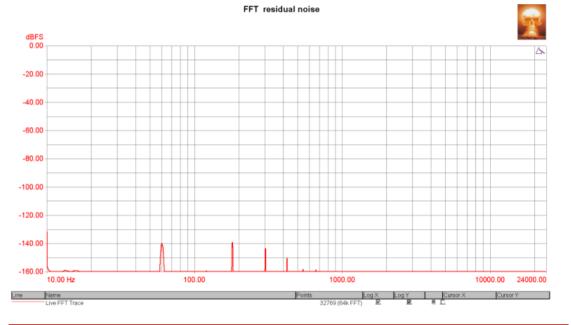
Measured at 2/7/2020 3:24:24 PM

Generator Settings	
Channel A:	Off
Channel B:	Off

Signal Analyzer Readings		
RMS amplitude (Channel A)	-112.114 dBu	Not limit checked.
RMS amplitude (Channel B)	-111.012 dBu	Not limit checked.

FFT residual noise





FFT Detector Readings		
Noise (residual) (Channel A)	-130.679 dBFS	< -60 dBFS > -150 dBFS
Noise (residual) (Channel B)	-129.474 dBFS	< -60 dBFS > -150 dBFS
FFTD 1 Settings: 22 Hz - 22 kHz, unweighted with band-reject notch filters, fundamental to the 10th harmonic		

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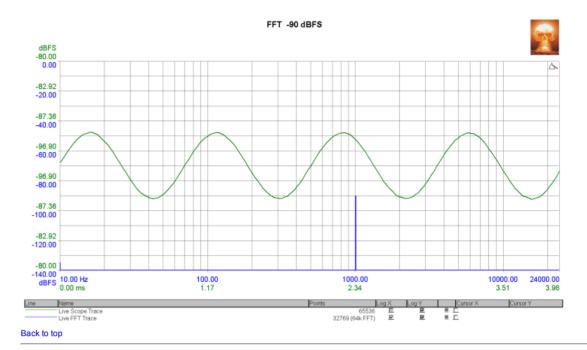
A17 FFT -90 dBFS: Not limit checked.

Measured at 2/7/2020 3:24:47 PM

Generator Settings	
Channel A:	sine, -90 dBFS at 1000 Hz
Channel B:	sine, -90 dBFS at 1000 Hz
Signal Analyzer Readings	

RMS amplitude (Selected : Ch A)

-72.523 dBu Not limit checked.

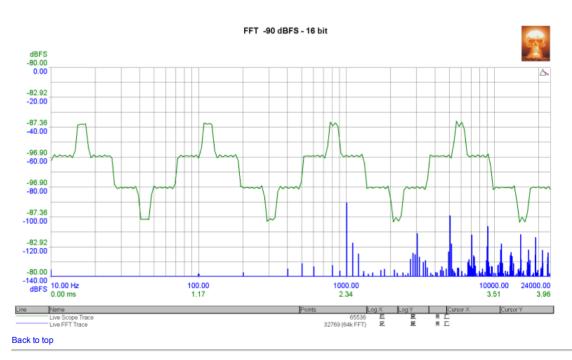


A18 FFT -90 dBFS 16 bit: Not limit checked.

Measured at 2/7/2020 3:29:28 PM

Generator Settings	
Channel A:	sine, -90 dBFS at 1000 Hz
Channel B:	sine, -90 dBFS at 1000 Hz

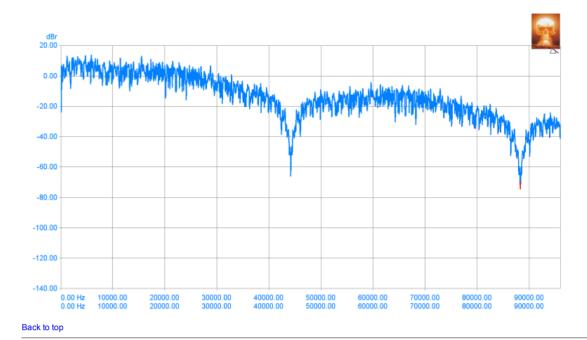
Signal Analyzer Readings		
RMS amplitude (Selected : Ch A)	-72.274 dBu	Not limit checked.



A19 FFT imaging: Not limit checked.

Measured at 2/7/2020 3:25:31 PM

Generator Settings	
Channel A:	white noise, -6 dBFS
Channel B:	white noise, -6 dBFS (inverted)



A20 FFT inferred jitter: Not limit checked.

Measured at 2/7/2020 3:25:53 PM

Generator Settings	
Channel A:	sine, -6 dBFS at 11025 Hz
Channel B:	sine, -6 dBFS at 11025 Hz (inverted)

