RX-V8 Interface board Jitter measurement

Set up: Amanero Combo384 + FDA-2A DAC. Check at DAC input bus J13. Probe Tek P6247 + 1103 power supply, scope Lecroy DDA-120. Play 44.1k and 96k music file using footbar from Asus W7 notebook under winxp.

Screen 1 — 5-Nov-12 15:28:29

```
2  50 ns  299mV
1:Hp@lv(2)  20 ps  138 #  ←0%/→0%  in 100001
50 ns
        15402 sweeps:  average    low      high    sigma
Freq(2)  ⊓⊔  24.5768 MHz  24.4748  24.6688  0.0355
p@lv(2)      40.689 ns    40.529   40.805   0.024
sigma(A) ⊥   24.52 ps     19.94    25.54    0.25
range(A) ⊥   198.92 ps    60.00    199.50   5.84
1 trig only
2 299mV  50Ω        A:Hp@lv(2)  0 -> 1000 pts
3 trig only
4 trig only                               8 GS/s   AUTO
```
SETUP OF A — use Math? No/Yes — Math Type: FFTAVG / Functions / Histogram / Resample / Rescale — MORE HIST SETUP — FIND CENTER AND WIDTH — Histogram custom line 2 p@lv(2) — using up to 100000 (values)

Screen 2 — 5-Nov-12 15:30:22

```
2  50 ns  298mV
1:Hp@lv(2)  50 ps  34.5 #  ←0%/→0%  in 17580
50 ns
        1758 sweeps:  average    low      high    sigma
Freq(2)  ⊓⊔  22.5797 MHz  22.4803  22.6599  0.0266
p@lv(2)      44.288 ns    44.112   44.430   0.040
sigma(A) ⊥   39.7 ps      39.4     40.0     0.1
range(A) ⊥   314.6 ps     310.0    319.0    3.4
1 trig only
2 298mV  50Ω        A:Hp@lv(2)  0 -> 1000 pts
3 trig only
4 trig only                               8 GS/s   AUTO
```
SETUP OF A — use Math? No/Yes — Math Type: FFTAVG / Functions / Histogram / Resample / Rescale — MORE HIST SETUP — FIND CENTER AND WIDTH — Histogram custom line 2 p@lv(2) — using up to 100000 (values)

Screen 3 — 5-Nov-12 15:36:21

```
2  10 µs  300mV
1:Hp@lv(2)  50 ps  3.45 #  ←0%/→0%  inside 2133
10 µs
        236 sweeps:  average    low      high    sigma
Freq(2)  ⊓⊔  95.9998 kHz  95.9986  96.0015  0.0005
p@lv(2)      10.4167 µs   10.4165  10.4168  0.0001
sigma(A) ⊥   55.9 ps      55.0     56.9     0.6
range(A) ⊥   290.7 ps     268.0    315.0    17.3
1 trig only
2 300mV  50Ω        A:Hp@lv(2)  0 -> 1000 pts
3 trig only
4 trig only                               1 GS/s   AUTO
```
SETUP OF A — use Math? No/Yes — Math Type: FFTAVG / Functions / Histogram / Resample / Rescale — MORE HIST SETUP — FIND CENTER AND WIDTH — Histogram custom line 2 p@lv(2) — using up to 100000 (values)

Screen 4 — 5-Nov-12 15:32:46

```
2  20 µs  300mV
1:Hp@lv(2)  50 ps  6.9 #  ←0%/→0%  inside 2784
20 µs
        347 sweeps:  average    low      high    sigma
Freq(2)  ⊓⊔  44.0997 kHz  44.0994  44.1004  0.0001
p@lv(2)      22.6759 µs   22.6756  22.6761  0.0001
sigma(A) ⊥   72.8 ps      70.2     81.1     1.7
range(A) ⊥   474.7 ps     469.0    483.0    6.3
1 trig only
2 300mV  50Ω        A:Hp@lv(2)  0 -> 1000 pts
3 trig only
4 trig only                               500 MS/s  AUTO
```
SETUP OF A — use Math? No/Yes — Math Type: FFTAVG / Functions / Histogram / Resample / Rescale — MORE HIST SETUP — FIND CENTER AND WIDTH — Histogram custom line 2 p@lv(2) — using up to 100000 (values)

Screen 5 — 5-Nov-12 15:34:44

```
2  .1 µs  298mV
1:Hp@lv(2)  .1 ns  13.8 #  ←0%/→0%  inside 4122
.1 µs
        686 sweeps:  average    low      high    sigma
Freq(2)  ⊓⊔  6.14403 MHz  6.12415  6.16296  0.00381
p@lv(2)      162.760 ns   162.291  163.251  0.098
sigma(A) ⊥   97.2 ps      95.2     99.5     1.0
range(A) ⊥   948.0 ps     936.0    960.0    7.2
1 trig only
2 298mV  50Ω        A:Hp@lv(2)  0 -> 1000 pts
3 trig only
4 trig only                               8 GS/s   AUTO
```
SETUP OF A — use Math? No/Yes — Math Type: FFTAVG / Functions / Histogram / Resample / Rescale — MORE HIST SETUP — FIND CENTER AND WIDTH — Histogram custom line 2 p@lv(2) — using up to 100000 (values)

Screen 6 — 5-Nov-12 15:33:50

```
2  .5 µs  299mV
1:Hp@lv(2)  .1 ns  6.9 #  ←0%/→0%  inside 3809
.5 µs
        291 sweeps:  average    low      high    sigma
Freq(2)  ⊓⊔  2.82237 MHz  2.82137  2.82351  0.00024
p@lv(2)      354.312 ns   353.815  354.817  0.098
sigma(A) ⊥   97.4 ps      91.0     99.8     1.7
range(A) ⊥   926.0 ps     868.0    960.0    26.0
1 trig only
2 299mV  50Ω        A:Hp@lv(2)  0 -> 1000 pts
3 trig only
4 trig only                               8 GS/s   AUTO
```
SETUP OF A — use Math? No/Yes — Math Type: FFTAVG / Functions / Histogram / Resample / Rescale — MORE HIST SETUP — FIND CENTER AND WIDTH — Histogram custom line 2 p@lv(2) — using up to 100000 (values)