## Schematic Vin 18V-30V VIN+ P1 @\_<del>\_\_\_\_\_\_</del> + C22 470ux2 \_\_\_\_C8 10u C9 C10 C11 VCCX TP5 O 10u 10u 10u Q1 GND Si7852 **PGND** P2**⊘**\_† CMPD2003 R16 ₹2.2 SW O 23 **★** C13 0.1uF O TP1 SYNC C15 TP3 O-CMPD2003 VIN UVLO RT/SYNC EN RAMP AGND SS F VIN SW UVLO HO RT/SYNC HB EN VCCX RAMP VCC AGND LO SS PGND FB CSG COMP CS VOUT TO DEMB L1A 22u 17. 1V/10Amax Q2 Si7852 Connect to VOUT+ Audio AMP IC 10 P3 R5 N/A R6 0 C23 공**≱**²k C21 2200u Pol Cap + C16 N/A + C17 + C18 C19 C5 C20 LM5116 28 **≸**33k 100kHz 220p R15 300k 10u N/A N/A C6 0. 22u 1uF C4 820p ₽\$ 3.3 **†**€14 R3 17. 4k PGND O C3 C2 ₽\$<sup>1.31k</sup>

1uF

LO TP7 PGND

PGND

郊

GND

10 P4

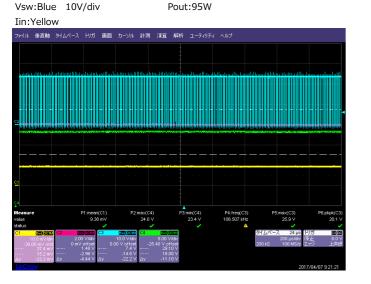
Ccomp:0.22uF,Rcomp:2k,Chf:220pF ↑ It is the setting I think is the best.

AGND TP2 O-

0.1uF

AGND

å₩



Vout:17.1V

200us/div

No.4
The time range of the waveform No. 3 was changed.
100ms/div

97.2

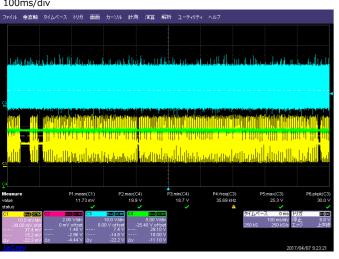
No.1

Vin:24V:Green 5V/div

Waveform is stable

29.10303

93.88074



No.2

Vin:19.8V:Green 5V/div Vout:17.1V 200us/div

Vsw:Blue 10V/div Pout:95W

Iin:Yellow

ファイル 単高額 タイムヘス トリガ 画面 カーソル 計測 洋箕 解析 ユーティリティ ヘルフ



Vin:30V~20V→Waveform is stable.

However, at Vin = 19.8 - 18.5 V, the waveform becomes unstable.

No.5
The time range of the waveform No. 3 was changed.
10us/div

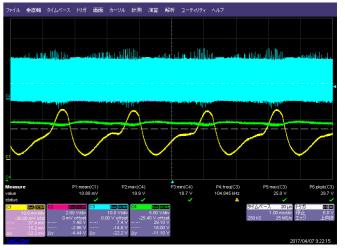


No.3

Vin:19.8V:Green 5V/div Vout:17.1V Vsw:Blue 10V/div Pout:95W

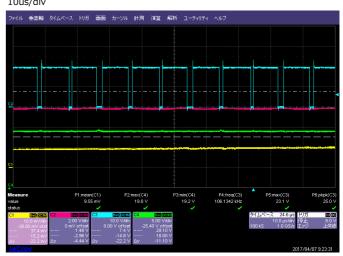
200us/div

Iin:Yellow



No.6

10us/div



No.7

The time range of the waveform No. 3 was changed. 10 us/div



 Vin:18.1V:Green
 5V/div
 Vout:17.1V
 200us/div

 Vsw:Blue
 10V/div
 Pout:95W

Iin:Yellow



Waveform when the output voltage starts to decrease  $\label{eq:vin=18.1V} \mbox{Vin=18.1V,Vout=17.1V} \rightarrow \mbox{17.00V}$