

Gianpietro Gozzi IK2VTU

Alcune misure effettuate sulle board 623 e 622 dello “Skanti switched mode power supply 48 Volt” Modello 107 600 20, montato nel ricetrasmittitore HF Skanti TRP8400 D IT1 s/n 9291.

Le misure sono state effettuate con un carico resistivo costante di 1 Ampère e tensione regolare erogata di 48 Vcc.

Strumenti utilizzati:

Multimetro FLUKE modello 110 “true RMS multimeter”

Oscilloscopio Agilent modello DSO-X 2012

BOARD 623, con potenziale negativo di riferimento -V collegato al pin n°5 del connettore PL2.

D43 - D44 (BYW31)

A 32.29 Vcc

K 48.00 Vcc

Q17 - Q18 (BUV20)

B -3.5 Vcc

E 0 Vcc

C 32.28 Vcc

Q15 – Q21 (BUV27)

B -3.5 Vcc

E -3.985 Vcc

C 32.28 Vcc

Q16 – Q22 (TIP42A)

B - 4 Vcc

E - 3.5 Vcc

C - 5.25 Vcc

Q24 – Q14 (BC636)

B - 4.4 Vcc

E - 4 Vcc

C - 5.26 Vcc

BOARD 622, con potenziale negativo di riferimento -V collegato al pin n°5 del connettore PL2.

Q13 – Q23 (BD140)

B 32 Vcc

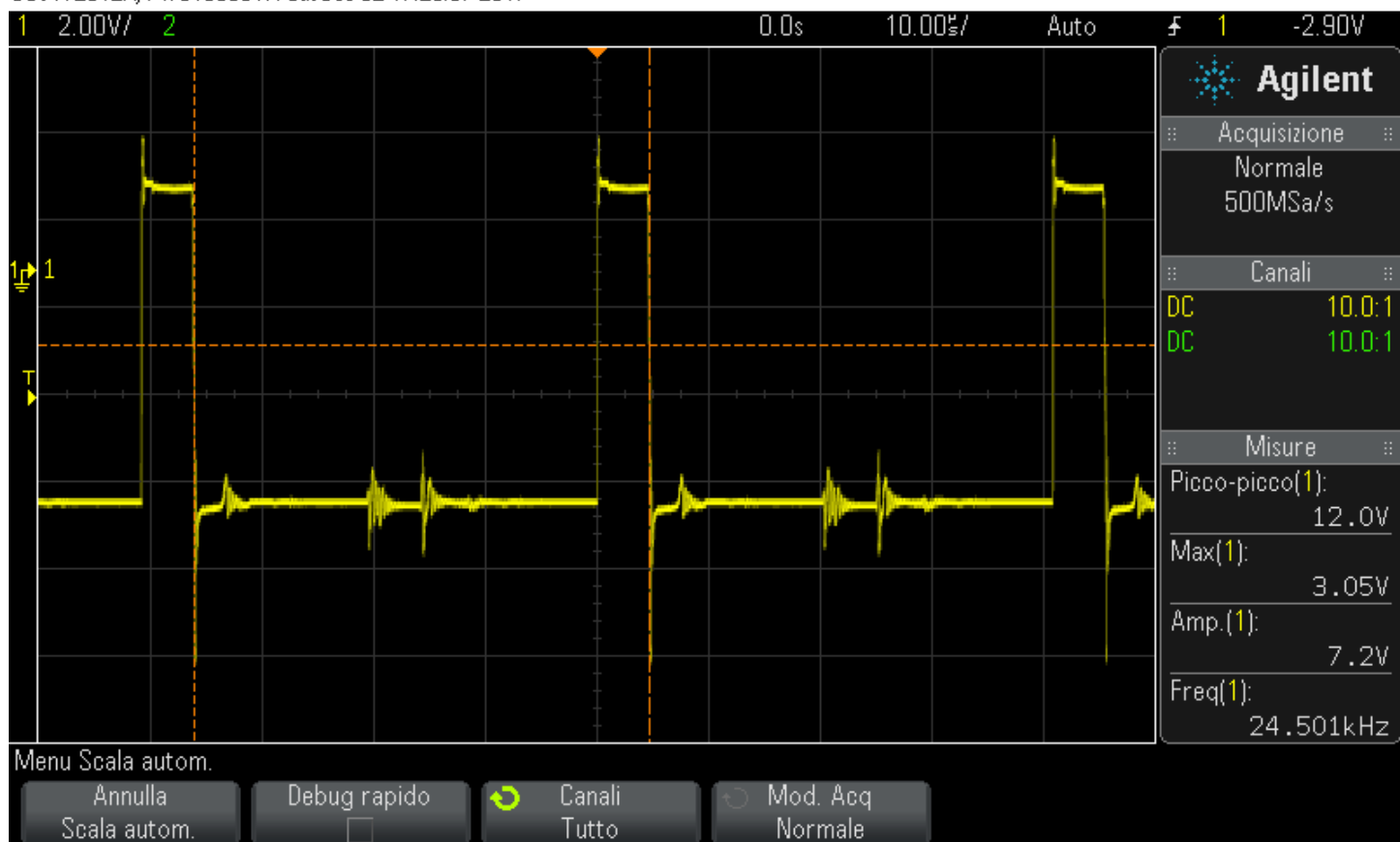
E 32 Vcc

C - 3.9 Vcc

Misura con oscilloscopio su PL4 pin1 – PL4 pin2

Ampiezza: 12 Vpp – Frequenza: 24.500 kHz

DSO-X 2012A, MY51360917: Sat Dec 02 17:25:37 2017



Q11 – Q19 (BC639)

B 0.5 Vcc

E 0.37 Vcc

C 32 V cc

Q12 – 20 (2N2907A)

B 0.5 Vcc

E 0.37 Vcc

C 0 Vcc

Q7 (TIP42C)

B 30.9 Vcc

E 31.5 Vcc

C 10.5 Vcc

Q8 (BD140)

B 31.13 Vcc

E 31.72 Vcc

C 8.96 Vcc

IC2 (UL N2883 or CA3183E) IC5 (HEF4047B or CD4047B)

Pin 1 0.854 Vcc

Pin 2 0.891 Vcc

Pin 3 0.837

Pin 4 0.168 Vcc

Pin 5 0 Vcc

Pin 6 0.708 Vcc

Pin 7 0.708 Vcc

Pin 8 0 Vcc

Pin 9 0 Vcc

Pin 10 0.708 Vcc

Pin 11 0 Vcc

Pin 12 0 Vcc

Pin 13 0 Vcc

Pin 14 8.68 Vcc

Pin 15 0.29 Vcc

Pin 16 0.969 Vcc

IC5 (HEF4047B or CD4047B)

Pin 1 4.892 Vcc

Pin 2 4.053 Vcc

Pin 3 4.038 Vcc

Pin 4 8.97 Vcc

Pin 5 8.97 Vcc

Pin 6 8.97 Vcc

Pin 7 0 Vcc

Pin 8 0 Vcc

Pin 9 0 Vcc

Pin 10 4.483 Vcc

Pin 11 4.484 Vcc

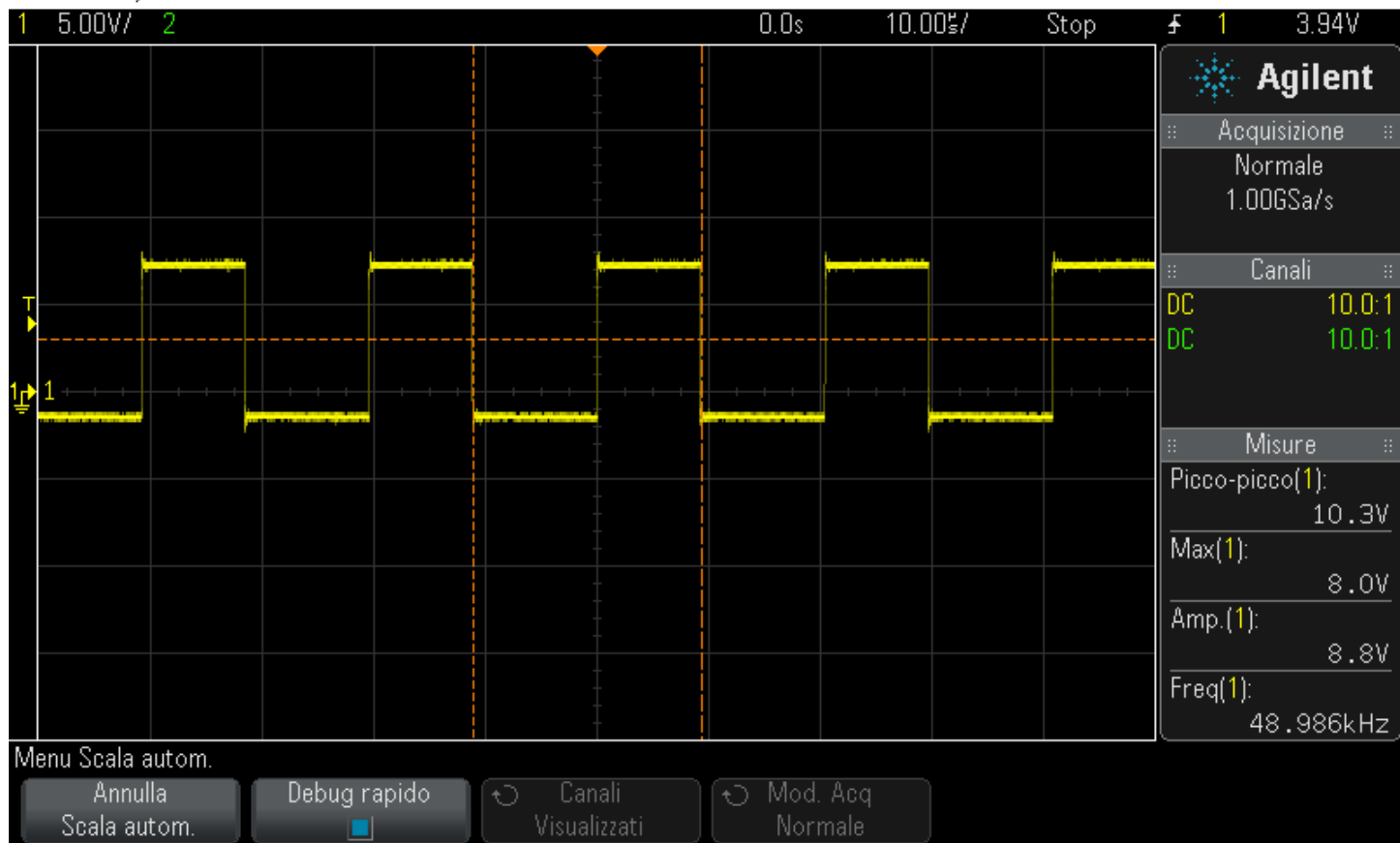
Pin 12 0 Vcc

Pin 13 4.91Vcc

Pin 14 8.97 Vcc

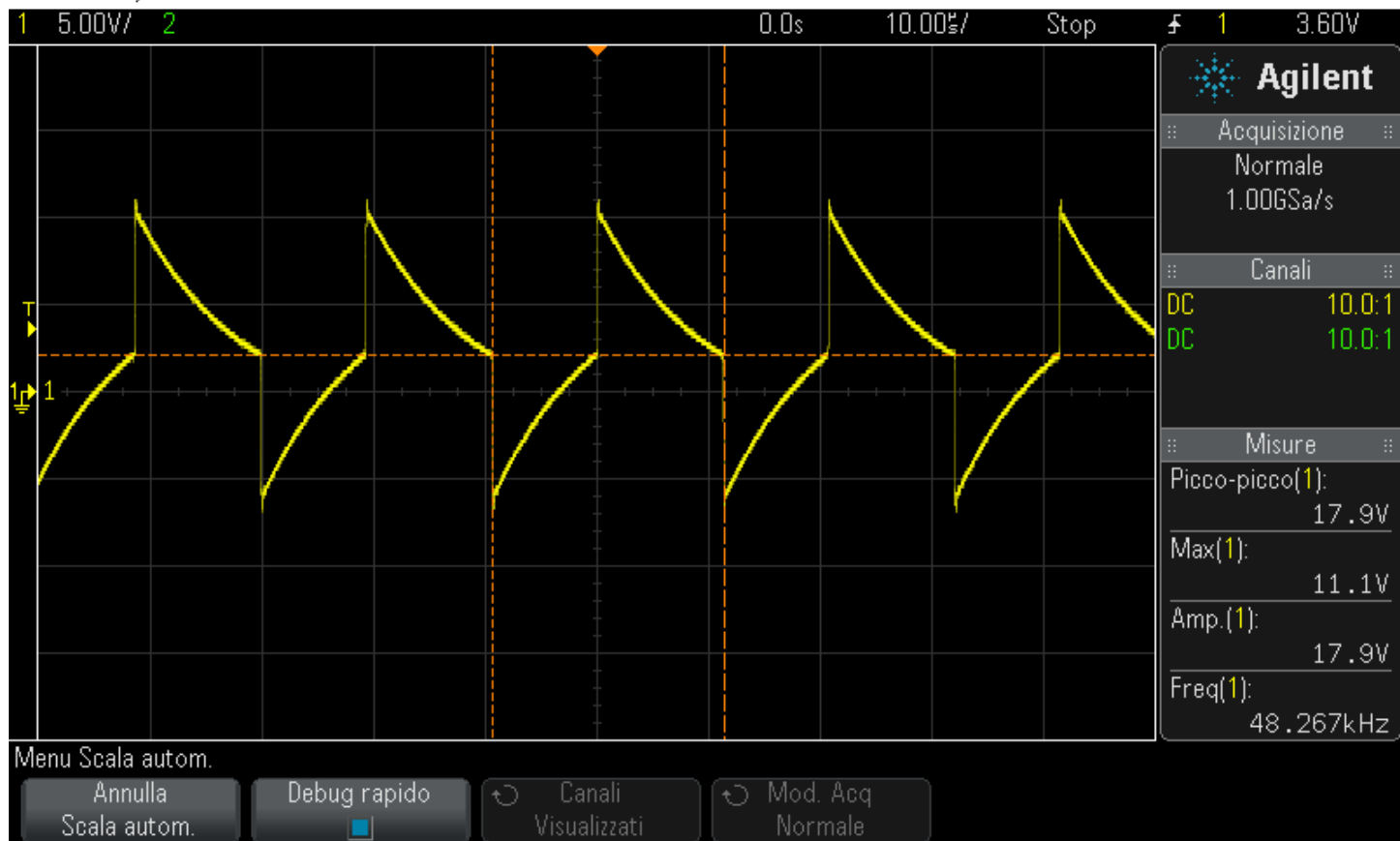
Misura con oscilloscopio su pin1, pin2, pin 13 di **IC5** (HEF4047B or CD4047B)
Ampiezza 10.3 Vpp – Frequenza 49.000 kHz

DSO-X 2012A, MY51360917: Sun Dec 03 17:14:01 2017



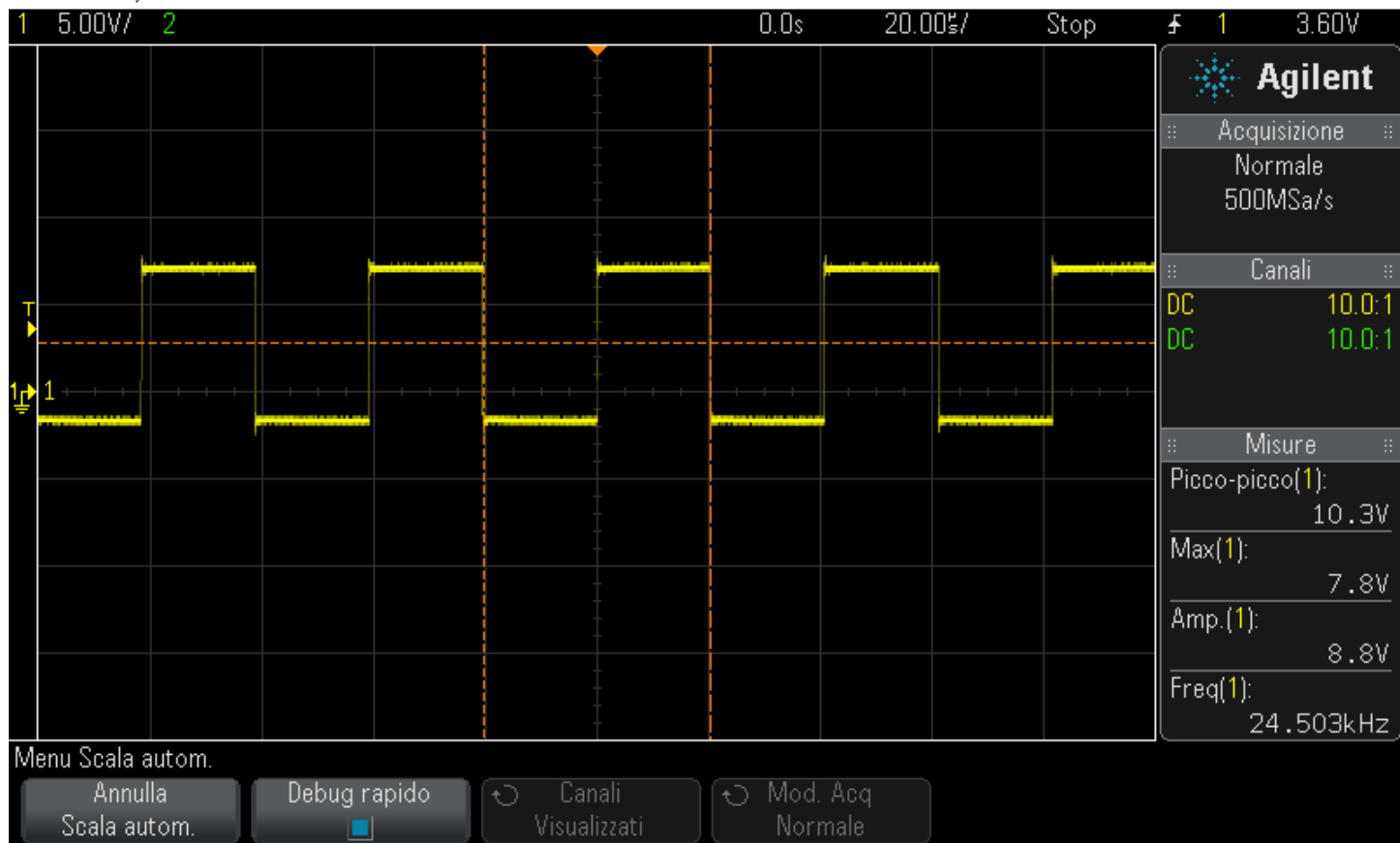
Misura con oscilloscopio su pin 3 di **IC5** (HEF4047B or CD4047B)
Ampiezza 17.9 Vpp – Frequenza 48.267 kHz

DSO-X 2012A, MY51360917: Sun Dec 03 17:20:58 2017



Misura con oscilloscopio su pin10, pin 11 di IC5 (HEF4047B or CD4047B)
Ampiezza 10.3 Vpp – Frequenza 24.503 kHz

DSO-X 2012A, MY51360917: Sun Dec 03 17:23:54 2017



IC6 (LM2903N)

Pin 1 0.489 Vcc

Pin 2 4.474 Vcc

Pin 3 0.892 Vcc

Pin 4 0 Vcc

Pin 5 0.891 Vcc

Pin 6 4.474 Vcc

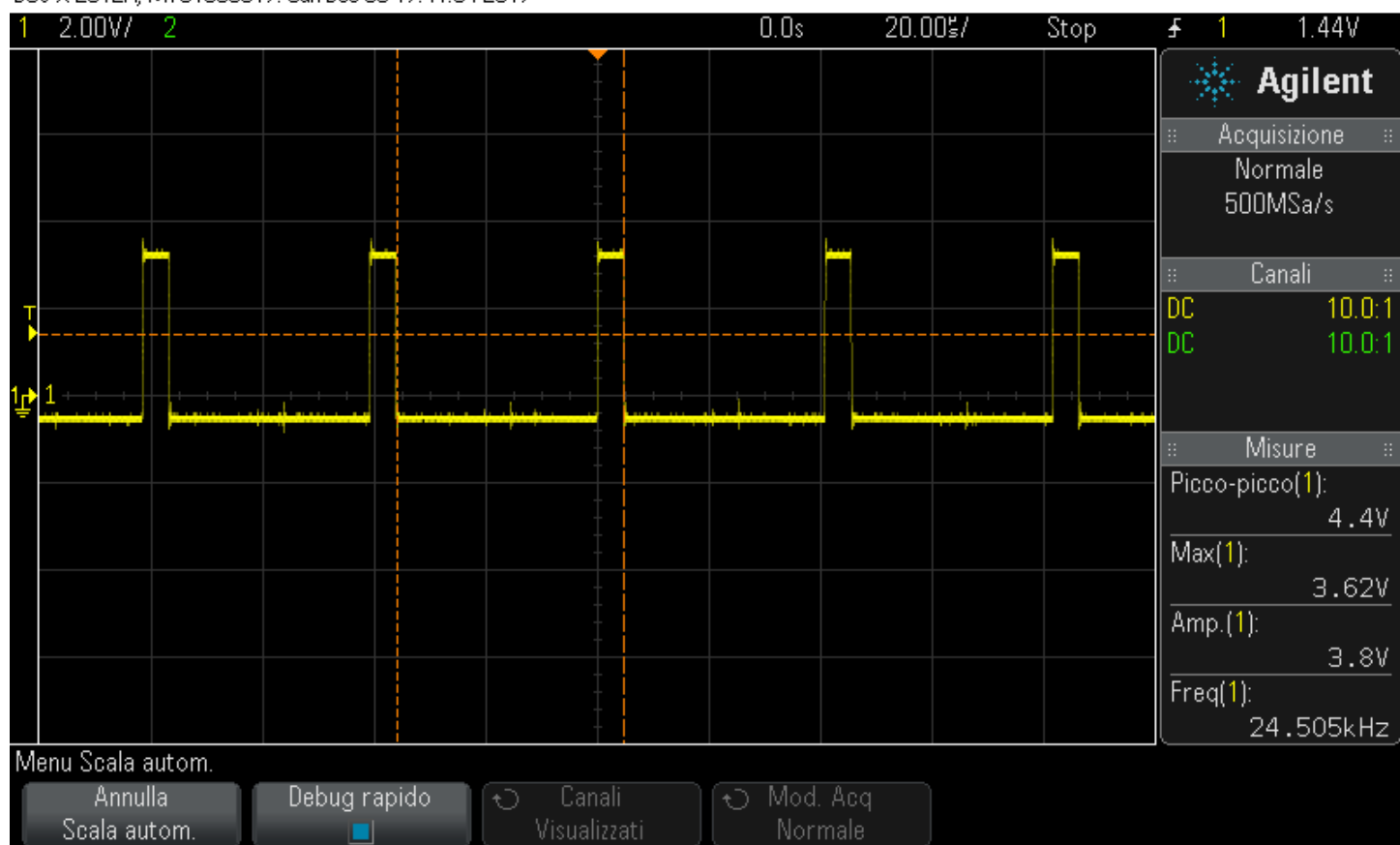
Pin 7 0.5 Vcc

Pin 8 8.96 Vcc

Misura con oscilloscopio su pin1, pin7 di **IC6** (LM2903N)

Ampiezza 4.4 Vpp – Frequenza 24.505 kHz

DSO-X 2012A, MY51360917: Sun Dec 03 17:41:54 2017



Misura con oscilloscopio su pin2, pin6 di **IC6** (LM2903N)
Ampiezza 8.2 Vpp – Frequenza 24.476 kHz

DSO-X 2012A, MY51360917: Sun Dec 03 17:45:39 2017

