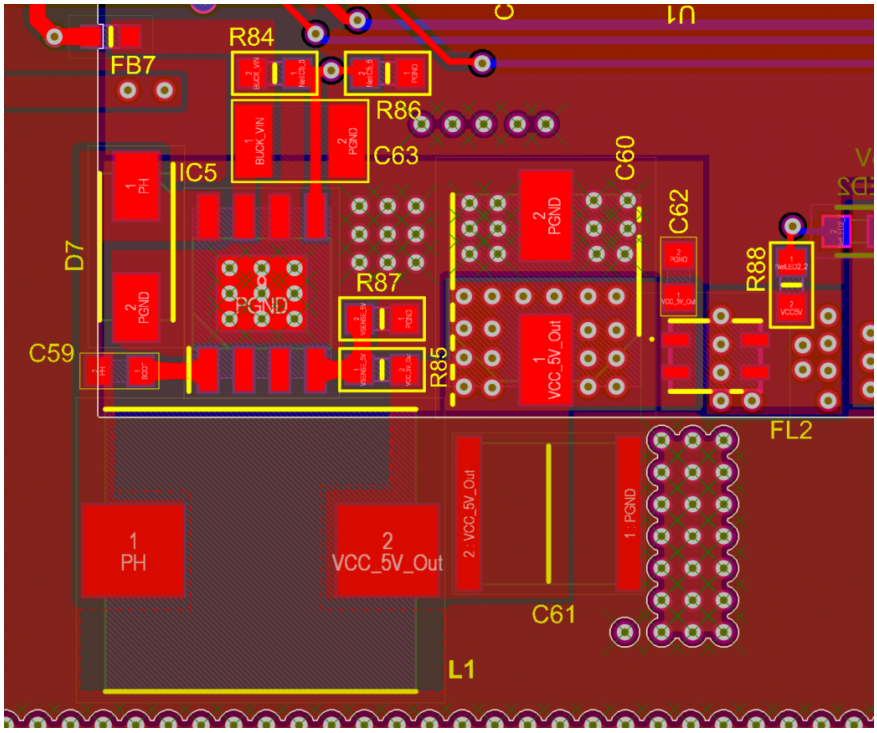
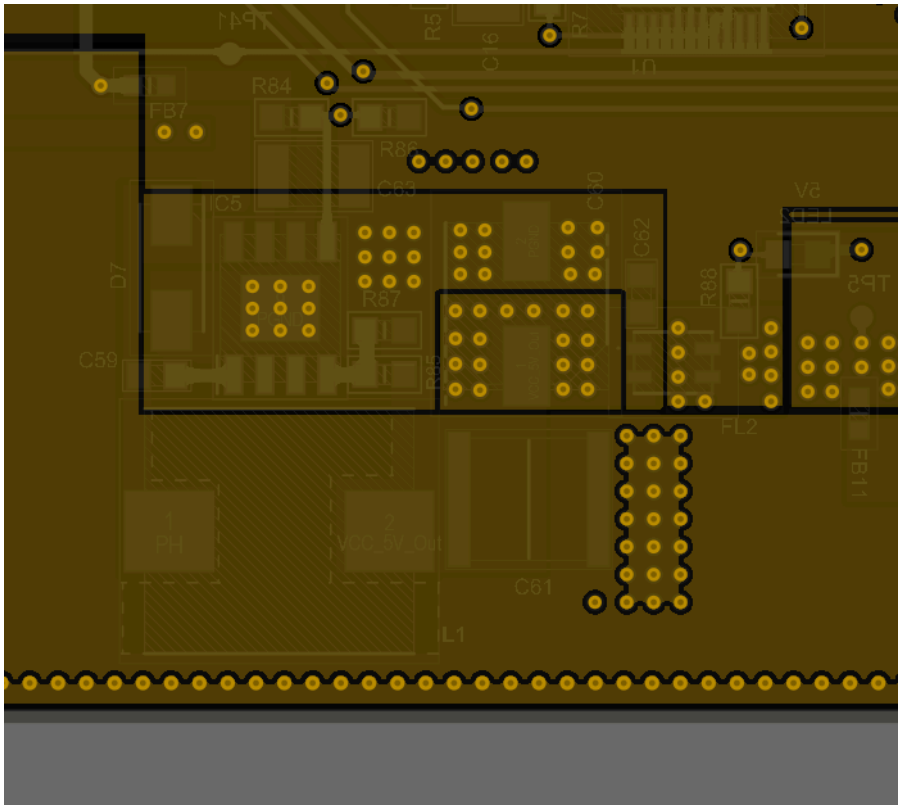
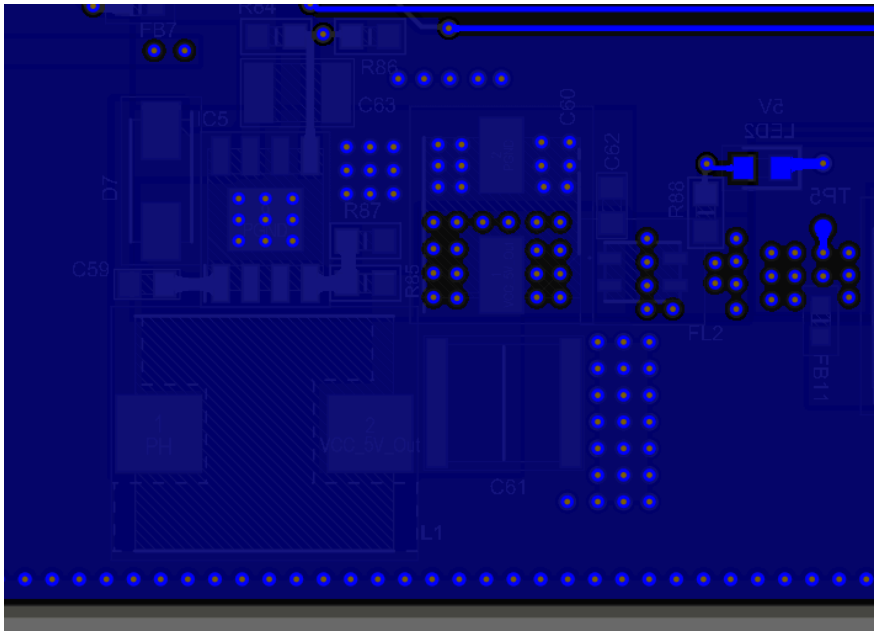
PCB LAYERS/SCHEMATIC/EMI PLOTS



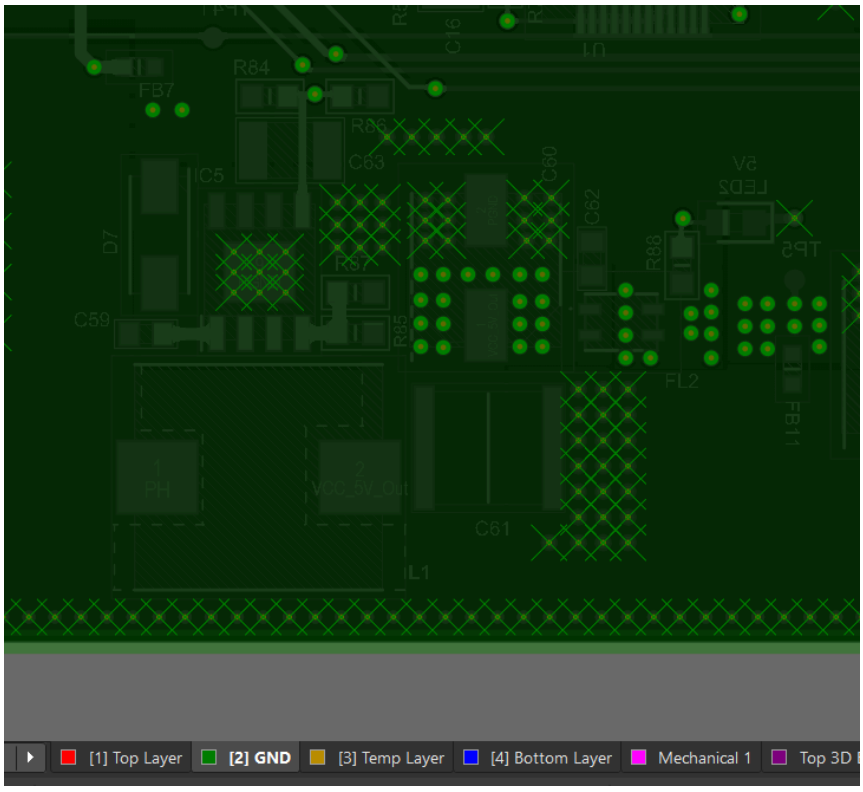
Top



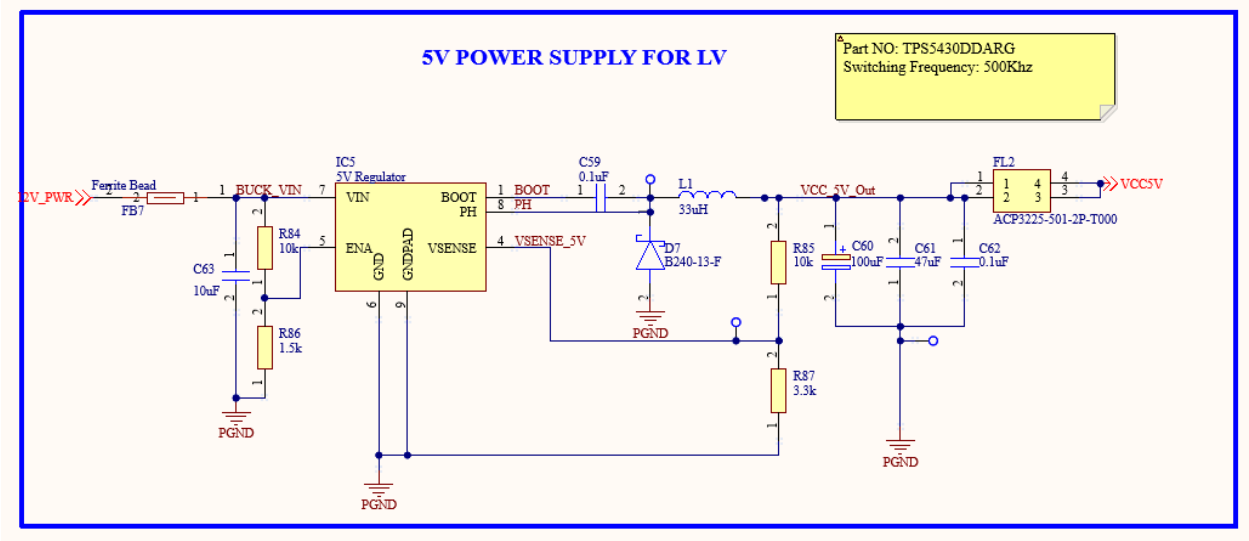
Third Layer (Power)

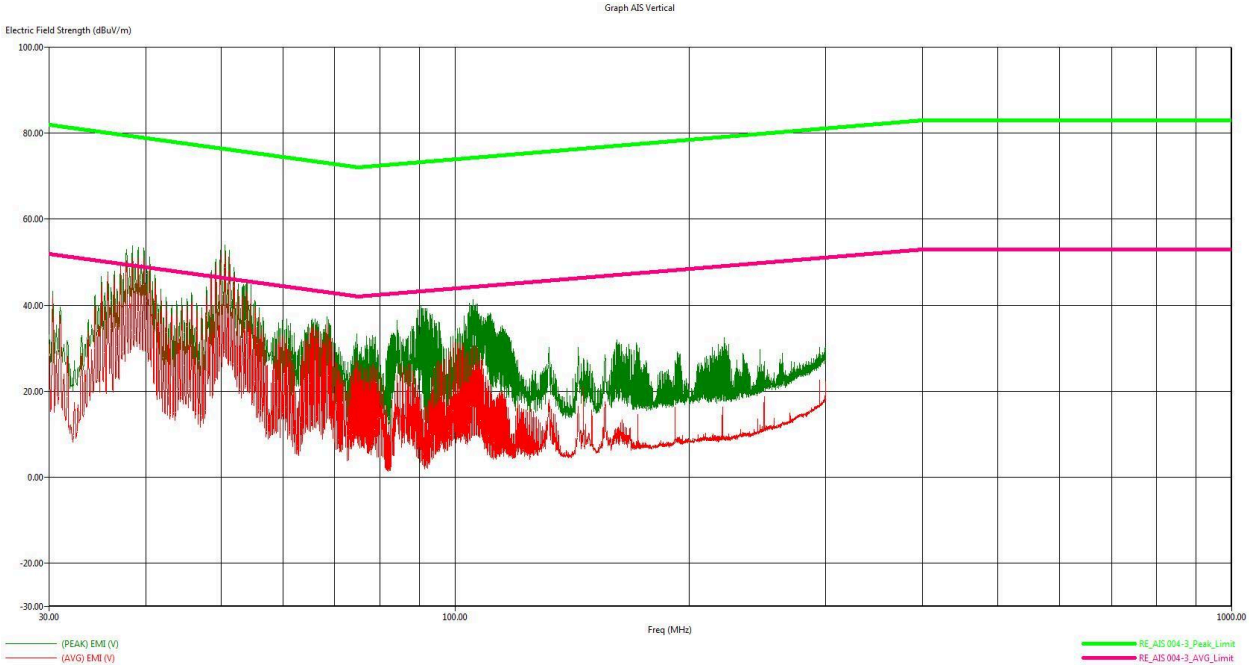


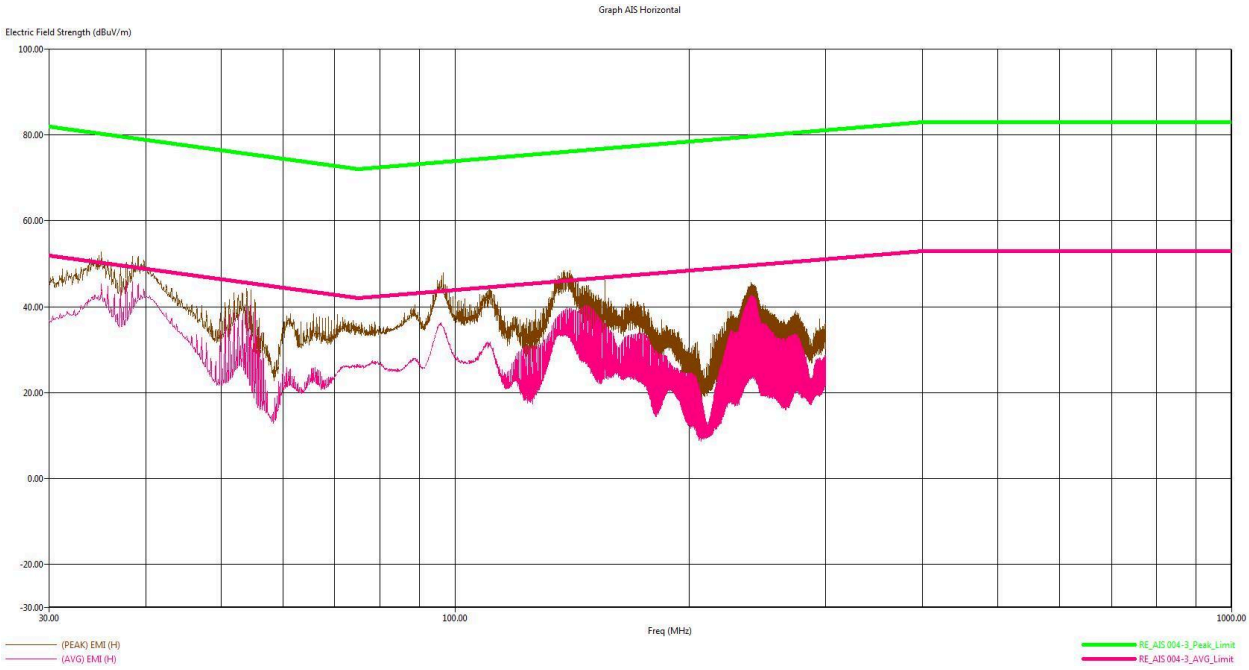
Bottom

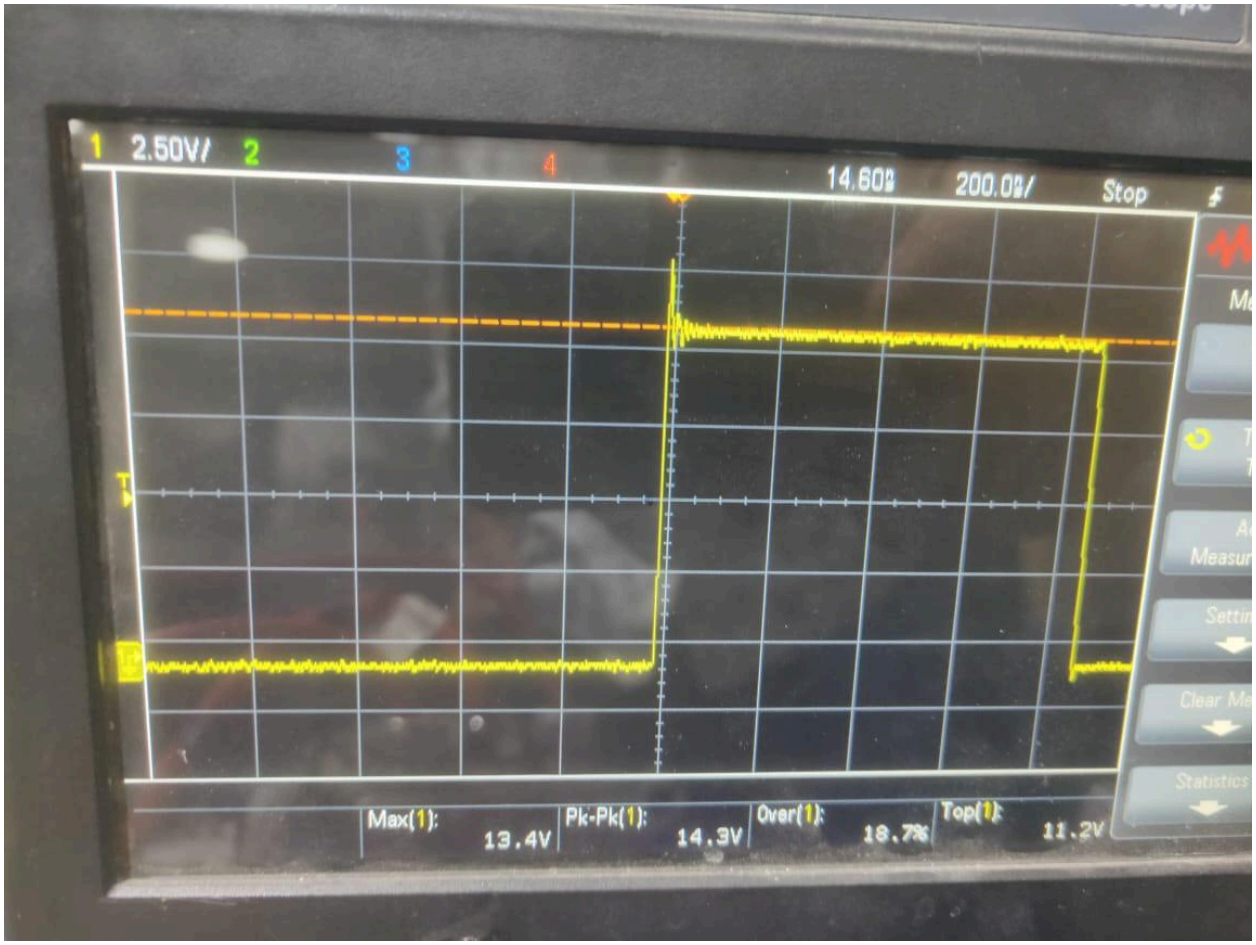


GROUND (Layer 2)


5V POWER SUPPLY FOR LV
Part NO: TPS5430DDARG
Switching Frequency: 500Khz
12V_PWR
Ferrite Bead
FB7
BUCK_VIN
IC5
5V Regulator
VIN
BOOT
PH
ENA
VSENSE
GND
GNDPAD
BOOT
PH
VSENSE_5V
C59
0.1uF
L1
33uH
VCC_5V_Out
FL2
ACP3225-501-2P-T000
VCC5V
R84
10k
C63
10uF
R86
1.5k
D7
B240-13-F
R85
10k
C60
100uF
C61
47uF
C62
0.1uF
R87
3.3k
PGND


Graph AIS Vertical
Electric Field Strength (dBuV/m)
100.00
80.00
60.00
40.00
20.00
0.00
-20.00
-30.00
30.00
100.00
1000.00
Freq (MHz)
(PEAK) EMI (V)
(AVG) EMI (V)
RE_AIS 004-3_Peak_Limit
RE_AIS 004-3_AVG_Limit


Graph AIS Horizontal
Electric Field Strength (dBuV/m)
100.00
80.00
60.00
40.00
20.00
0.00
-20.00
-30.00
30.00
100.00
1000.00
Freq (MHz)
(PEAK) EMI (H)
(AVG) EMI (H)
RE_AIS 004-3_Peak_Limit
RE_AIS 004-3_AVG_Limit


1 2.50V/ 2 3 4
14.60s 200.0s/ Stop
Max(1): 13.4V
Pk-Pk(1): 14.3V
Over(1): 18.7%
Top(1): 11.2V