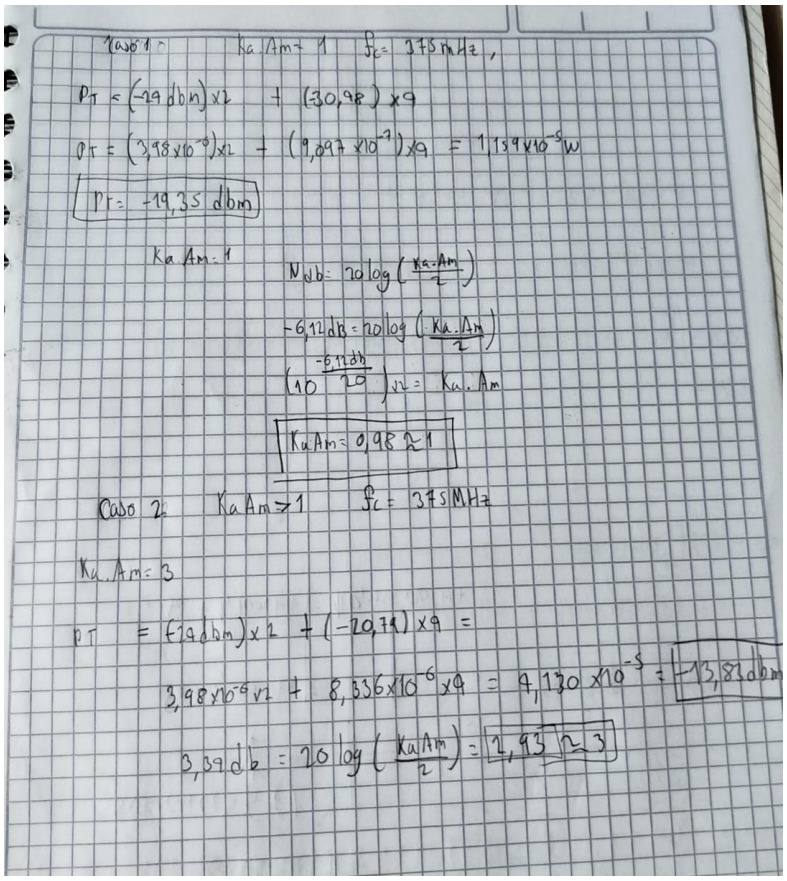
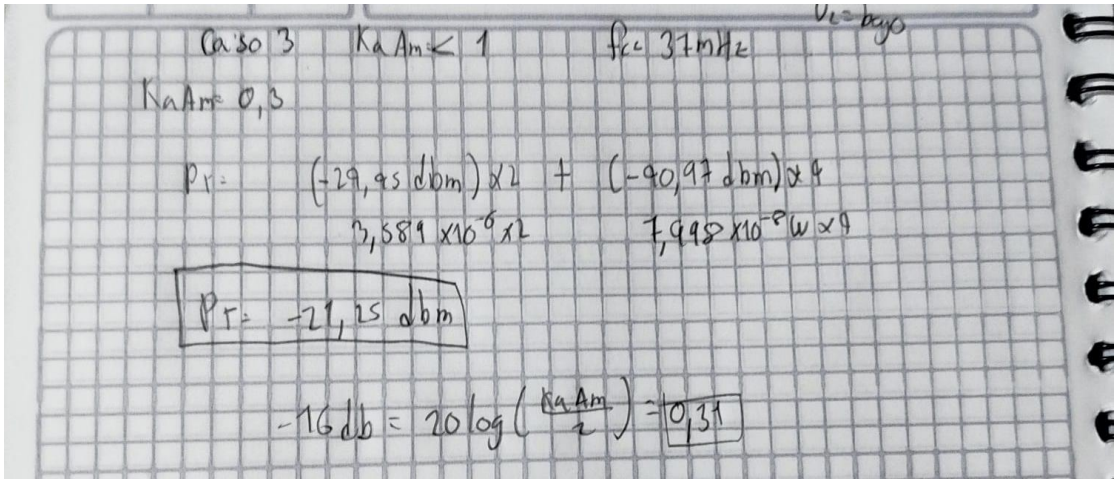
Parte 1


Caso 1: Ka.Am = 1 fc = 375 MHz
PT = (-19 dbm) x2 + (-30,98) x9
PT = (3,98x10^-6) x2 + (9,997x10^-7) x9 = 1,199x10^-5 W
PT = -19,35 dbm
Ka.Am = 1
Nwb = 20log(Ka.Am/2)
-6,12dB = 20log(Ka.Am/2)
(10^(-6,12db/20)) x2 = Ka.Am
Ka.Am = 0,982 ≈ 1
Caso 2: Ka.Am > 1 fc = 375 MHz
Ka.Am = 3
PT = (-19dbm) x2 + (-20,79) x9 =
3,98x10^-6 x2 + 8,336x10^-6 x9 = 4,130x10^-5 = -13,81dbm
3,39db = 20log(Ka.Am/2) = 2,93 ≈ 3


ROHDE&SCHWARZ
FPC1000 · Spectrum Analyzer
Espectro - Espectro
Marcador
Centro 327 MHz
Span 490 kHz


Caso 3 KaAm < 1 fc= 37mHz
Vc = bajo
KaAm = 0,3
Pr = (-29,95 dbm) x2 + (-90,97 dbm) x9
3,589 x10^-6 x2 7,998 x10^-9 w x9
Pr = -21,25 dbm
-16db = 20 log (KaAm / 2) = 0,31


ROHDE&SCHWARZ FPC1000 · Spectrum Analyzer
Espectro - Espectro
3/10/2024 1:09
Marcador
REF: -15 dBm
ATT: 5 dB
RBW: 100 Hz
VBW: 100 Hz
Trigger: Free
SWT: 618 ms
M3 327.125609 MHz
1 Pc Máx.
2 Pc Máx.
M1 326.999585 MHz • -24.36 dBm • -24.36 dBm
M2 326.873976 MHz • -40.95 dBm • -40.95 dBm
M3 327.125609 MHz • -40.95 dBm • -40.95 dBm
-25.0
-35.0
-45.0
-55.0
-65.0
-75.0
-85.0
-95.0
-105.0
Centro 327 MHz
Span 490 kHz
Marcador 1
Marcador 2
Marcador 3
Marcador 4
Tipo de marcador
Marker Mode Marker 1
Demodulación marcador