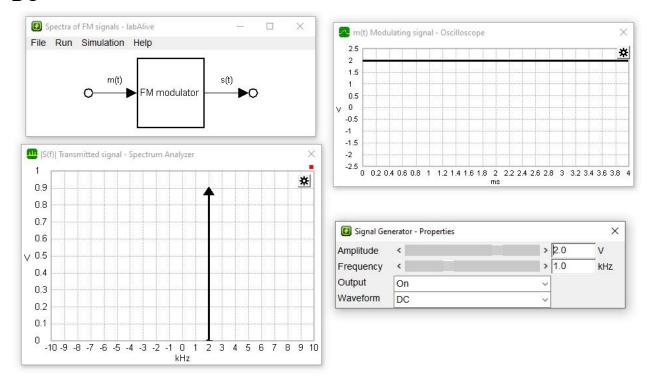
Date 26/2					Ex	ot. No	5
xpt. Name	FM				Pa	ge No	q
			Experin	unt-5			
		Spe		Frequercy	Modulating	Signals	
Aim	7	·	•				
	To ob	terrière modulat	and and	lyse diffe	rent spe	itra of	frequency
App	aratus:						
ur la	bAlive.	Online 1	Simulati				
47	Java K	untime	Enveron	ment.			
	trequer	my Mod	ulation arrier	varies to	he freque	eney o	of the ree stynol.
(reuler Moode	frequency classing	betw of signal:	the Carrier instanto	"u pro	portional amplitu	nd l to the de.
			A (t) =	Ky m(t)) .		
	where	Df (4)) ->	frequency	durables		
		Kuy my (+)	-)	frequency sensitivity Modulating	of preg	mency v	usdulator
				Tea	icher's Signa	ature:	

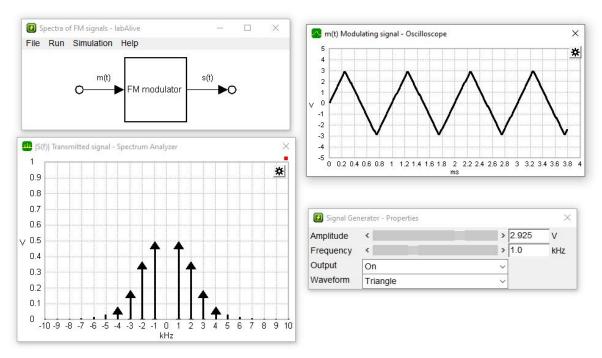
Date_	Expt. No
Expt. N	Page No
1	
	Modulation Index, B = Stmax = ky m
1	m > amptitude of medulating signal for > modulating sine wave signal frequency.
	Procedure:
<u>a)</u>	Change the modulation ridex values and observe the change
_	the spectra for DC, thangular, sawtooth and square wave.
b)	
	Change the value of modulation lindex for which the carrier frequency disappress for BC, triangular, canodooth
	UIA O SELIDIN WE WANT OF A
<u>c)</u>	Louisar adjust values such that 2rd and 3rd side bards disappears for different wareforms.
	Observations:
	a in a formation will not disappear and
9	for be wave arrier frequency will not disappear and will be directly dependent en amplitude, shifts according.
4	for triangular wave, corrier frequency dy appears at
	2.925, first band disappears at 4.765, swand
	at 6.32 and third at 7.82.
V	Carrier frequency with her vill Alive average at
	former and depende on auxiliarde.
	both ends much angulary and
$\overline{\Box}$	
	Teacher's Signature:

DC

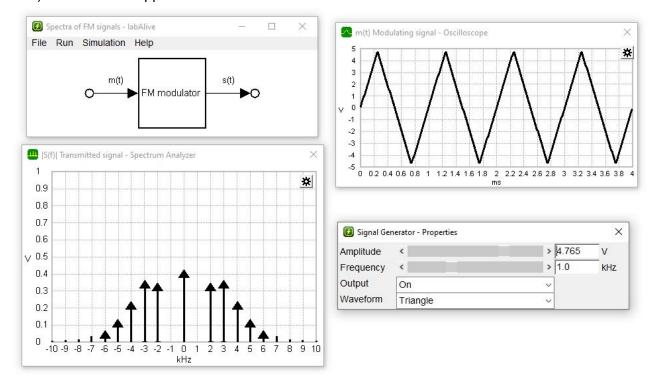


TRIANGULAR

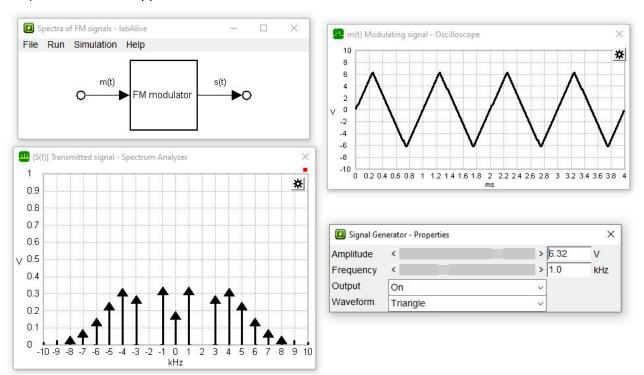
1) Carrier Frequency Disappears



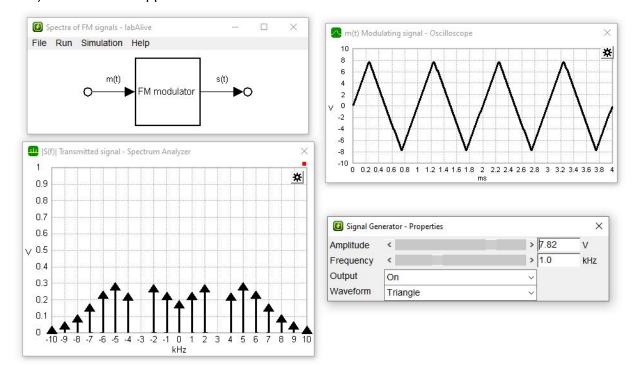
2) 1st Band Disappears



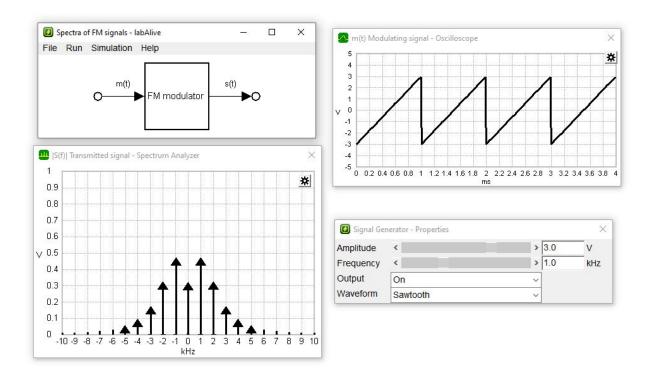
3) 2nd Band Disappears



4) 3rd Band Disappears

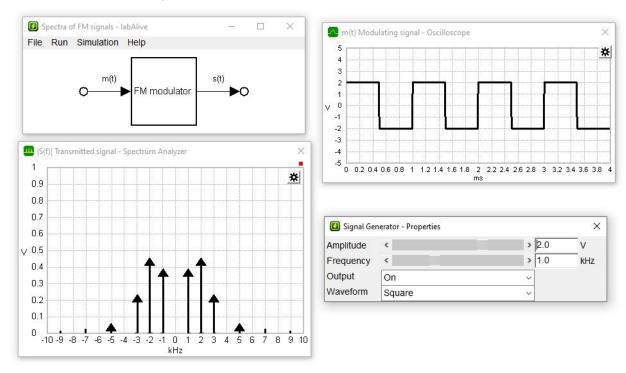


SAWTOOTH

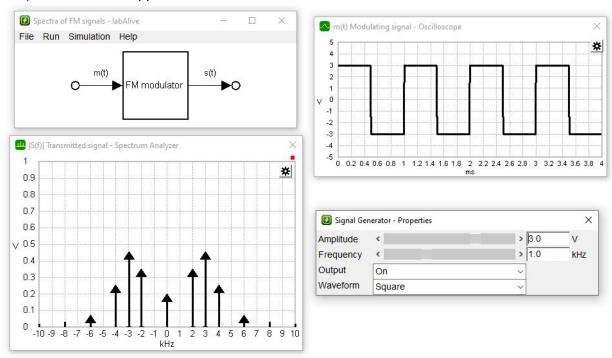


SQUARE

1) Carrier Frequency Disappears



2) 2nd Band Disappears



3) Third Band Disappears

