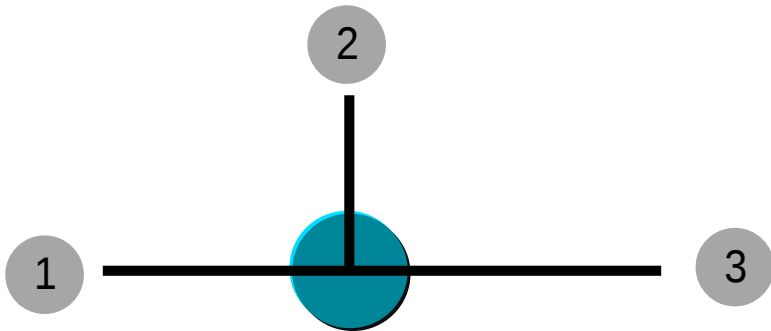




circulator B

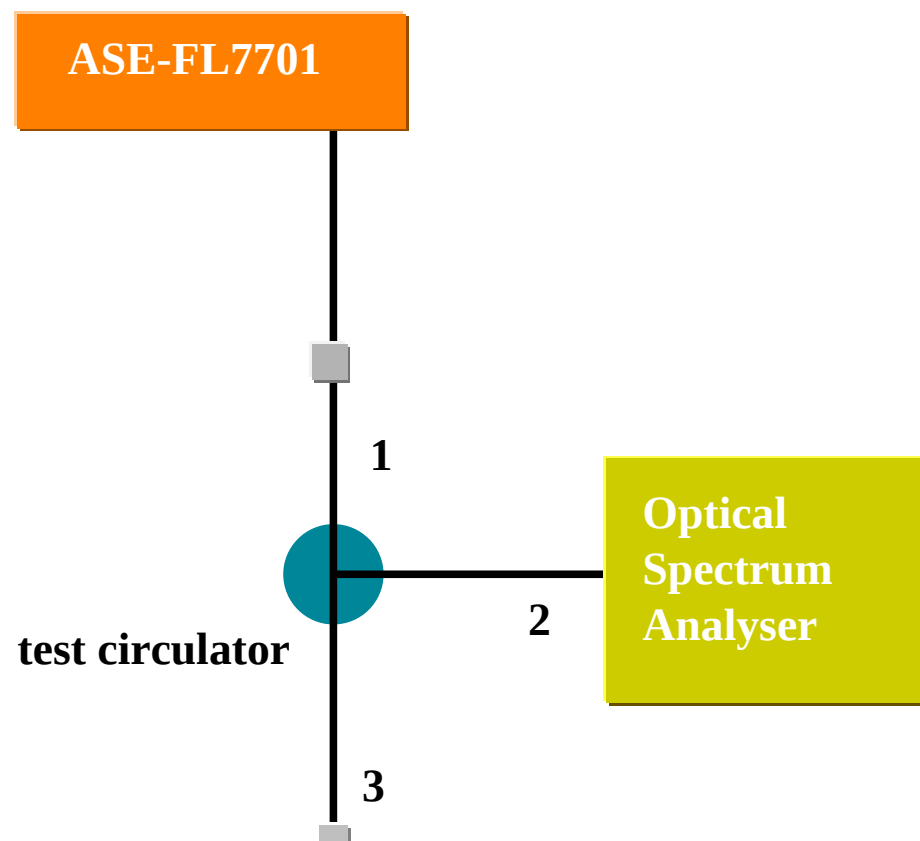


insertion loss		isolation			directivity	return loss		
→	→	→	→	→	→	→	→	→
1550nm	1550nm	1550nm	1550nm		1550nm	1550nm	1550nm	1550nm
0.45dB	0.45dB	53dB	55dB		58dB	66dB	63dB	66dB
FIGURE 1		FIGURE 2			FIGURE 3	FIGURE 4		



Measurement System

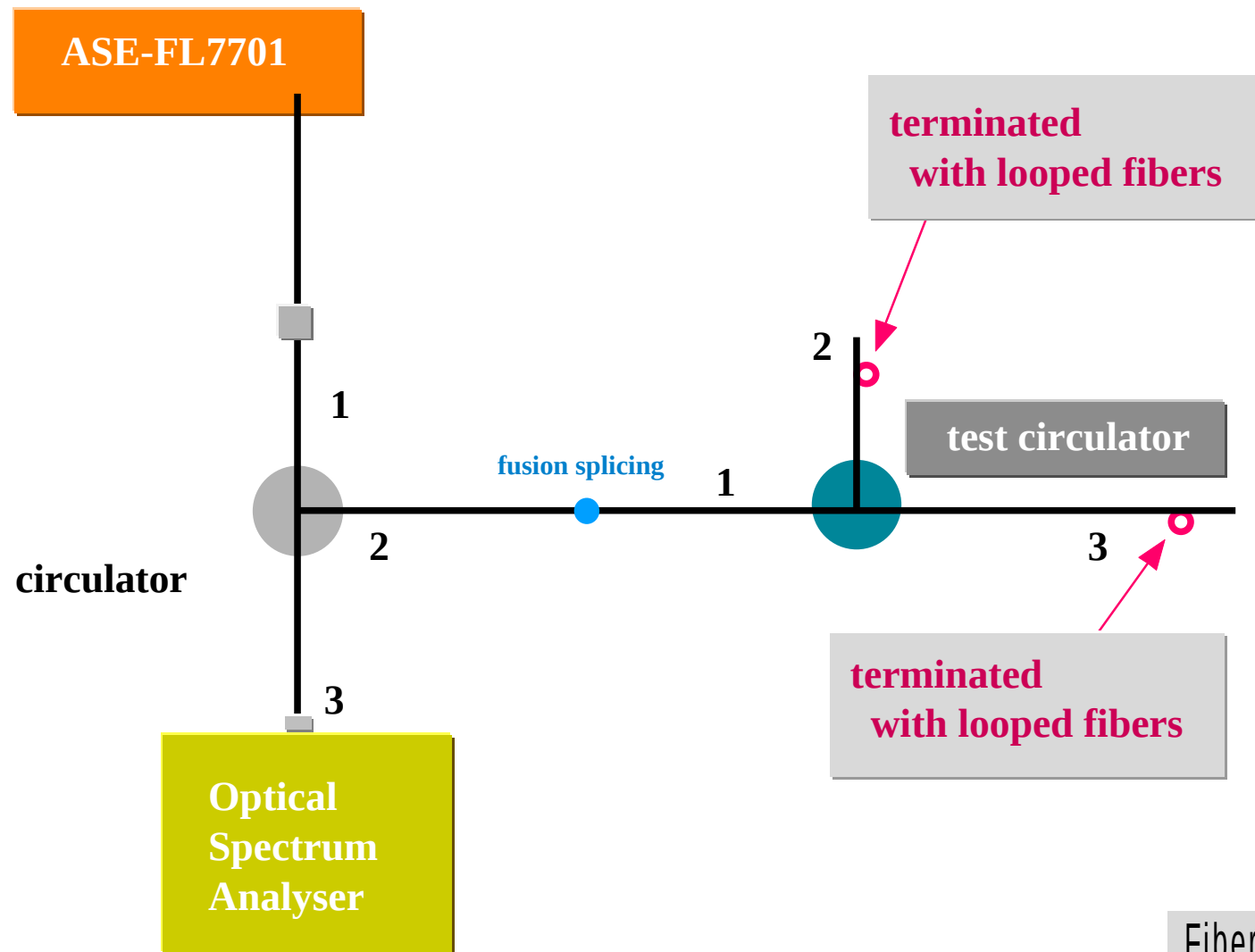
insertion loss, isolation, directivity





Measurement System

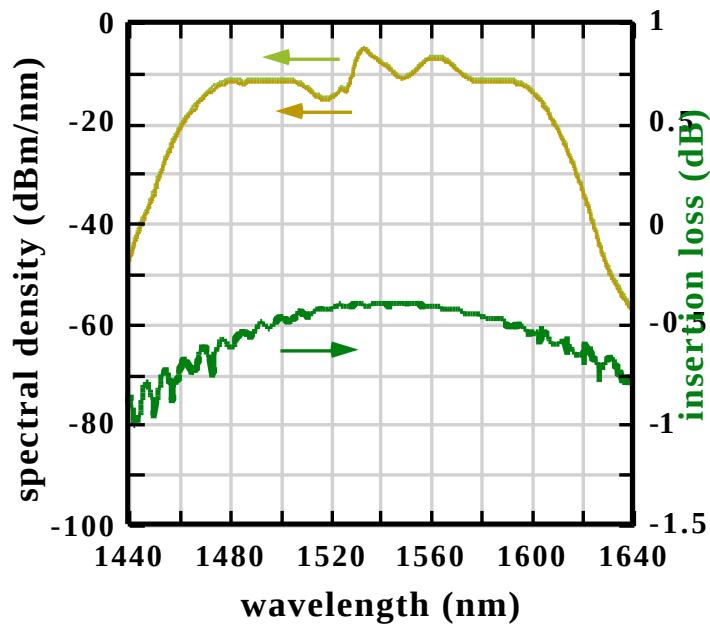
return loss



circulator B

insertion loss

1 → 2



2 → 3

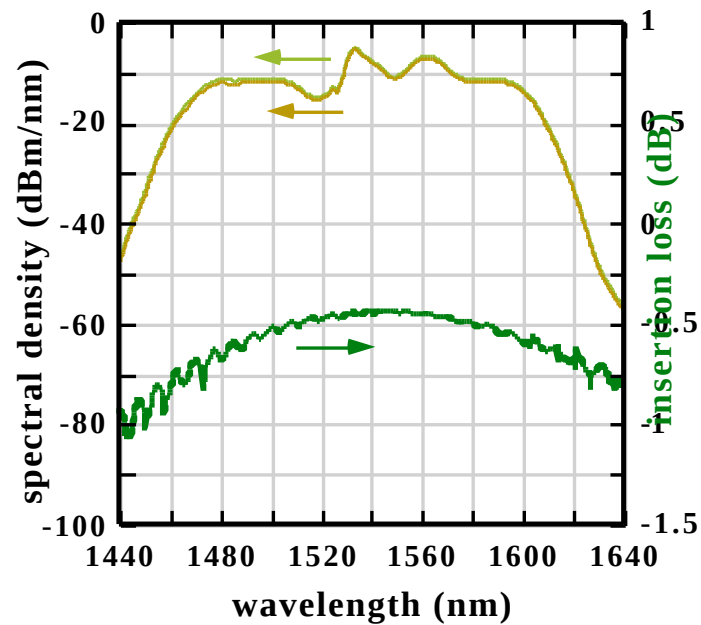
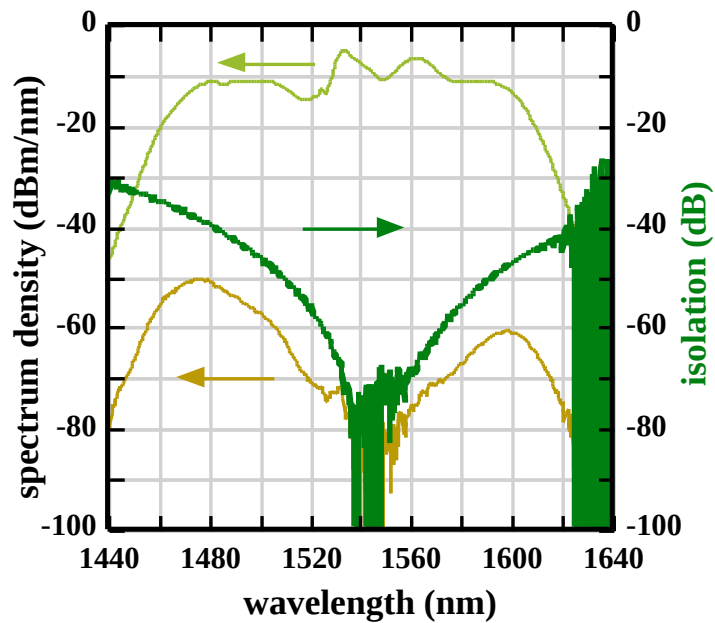


FIGURE 1

circulator B

isolation

2 → 1



3 → 2

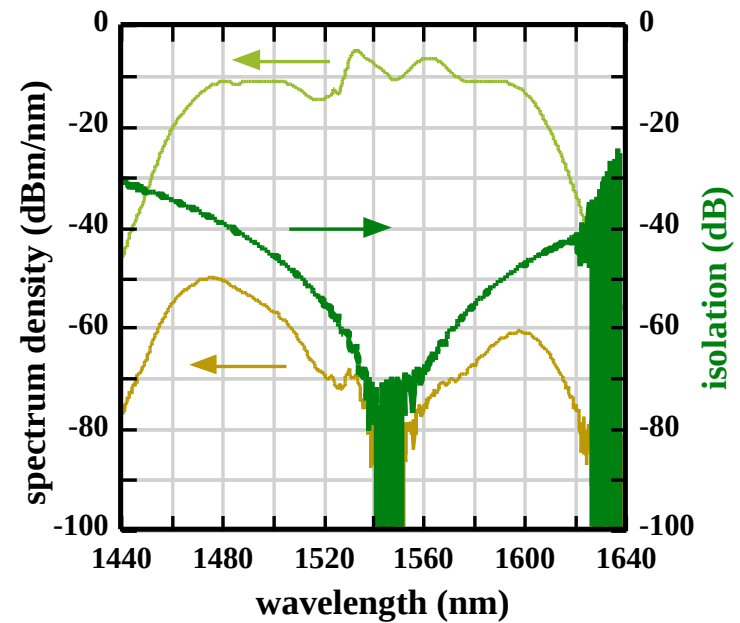
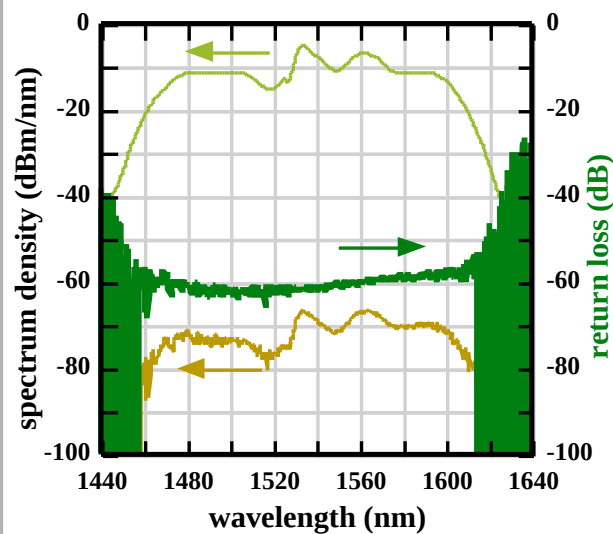


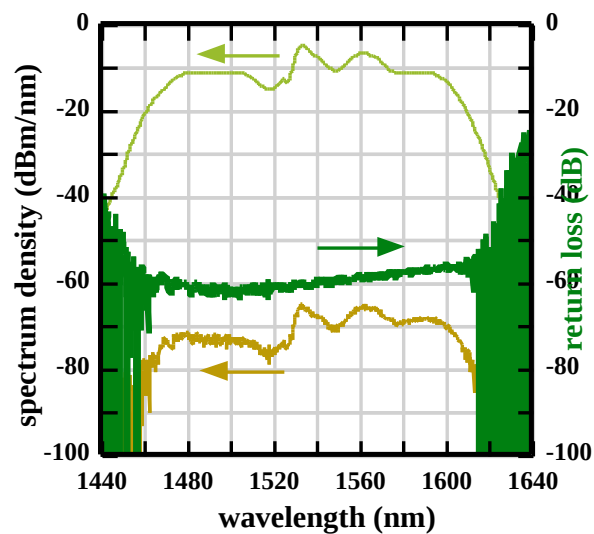
FIGURE 2

return loss

1 → 1



2 → 2



3 → 3

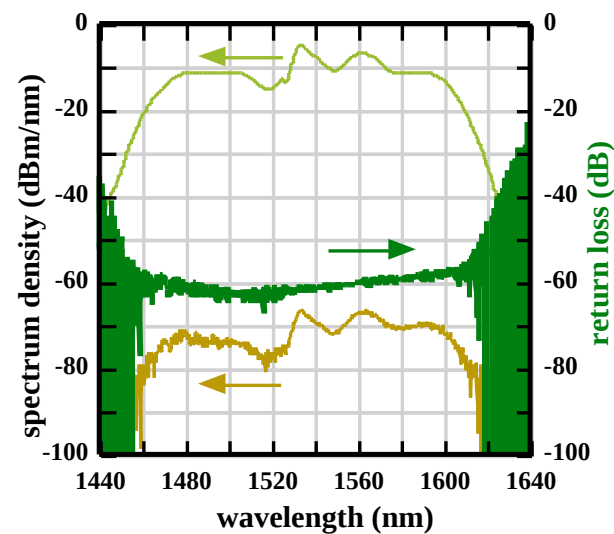
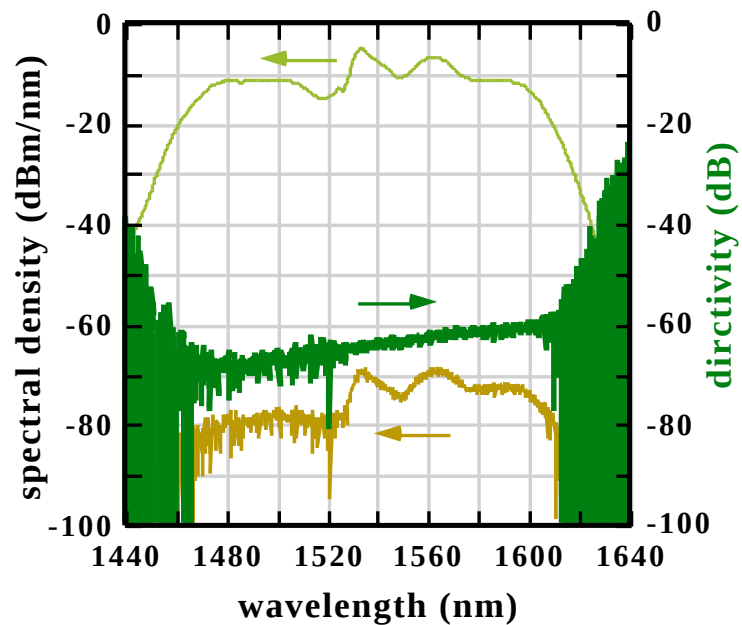


FIGURE 4

circulator B

directivity

1 → 3



3 → 1

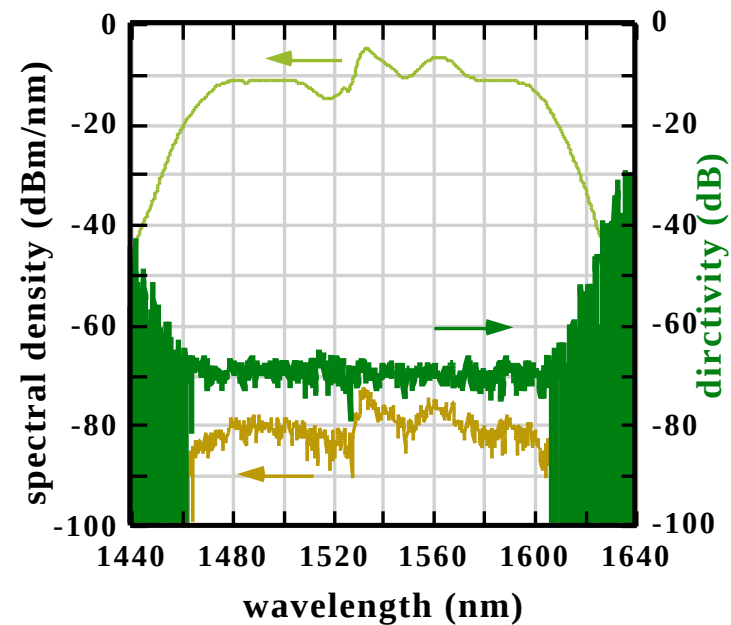
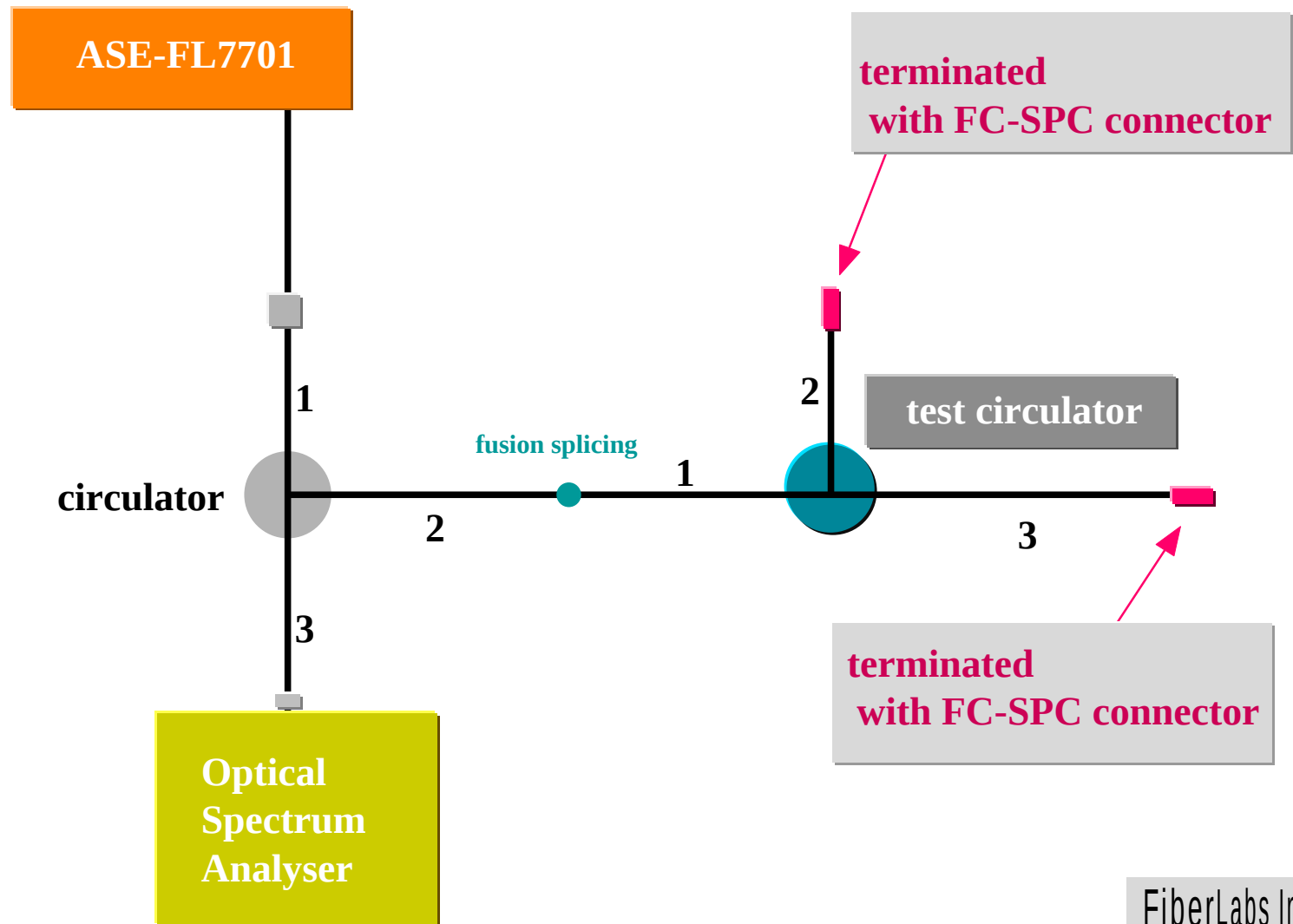


FIGURE 3



Measurement System

return loss

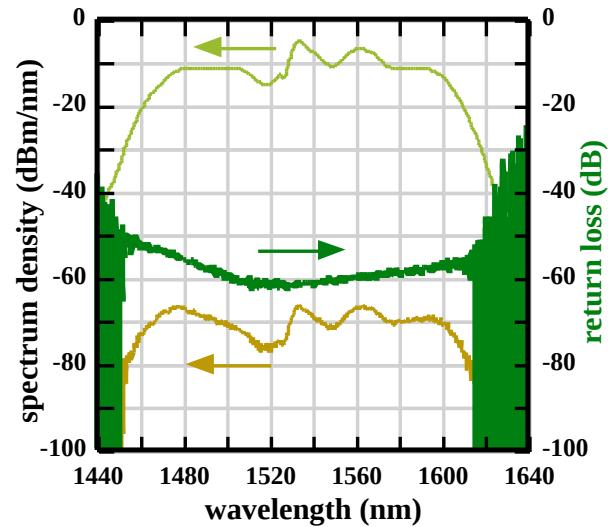




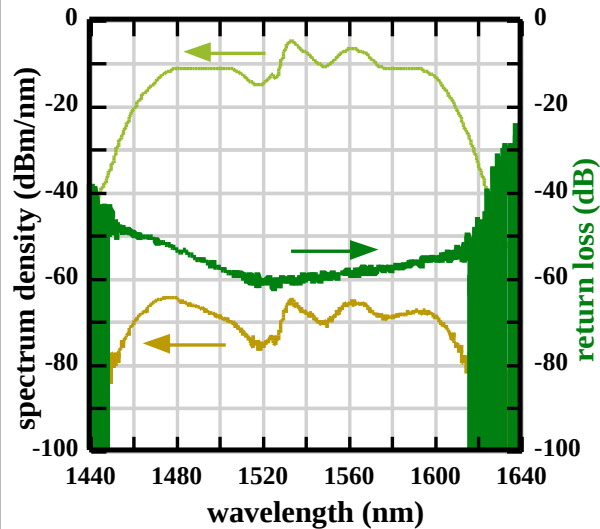
circulator B

return loss

1 → 1



2 → 2



3 → 3

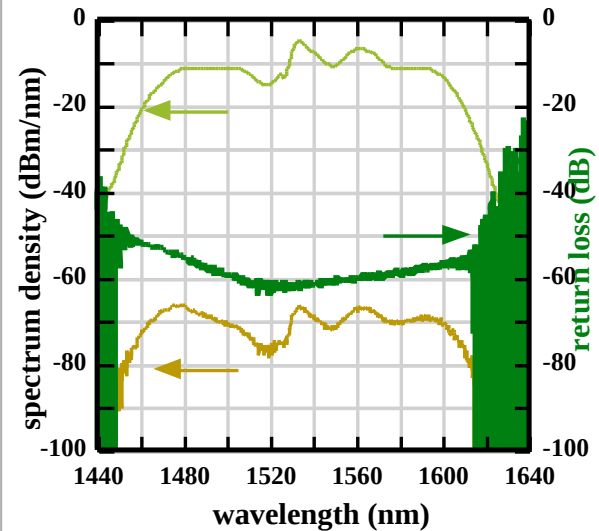


FIGURE 4-2