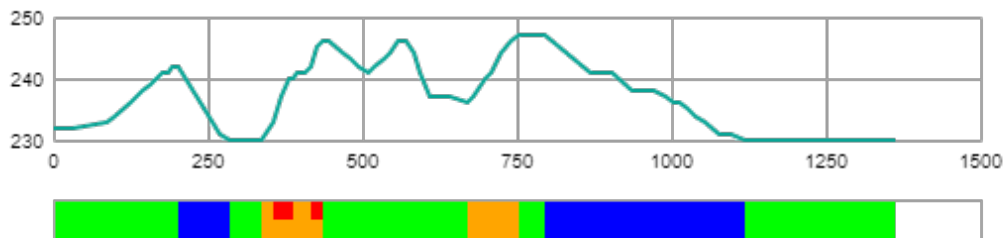




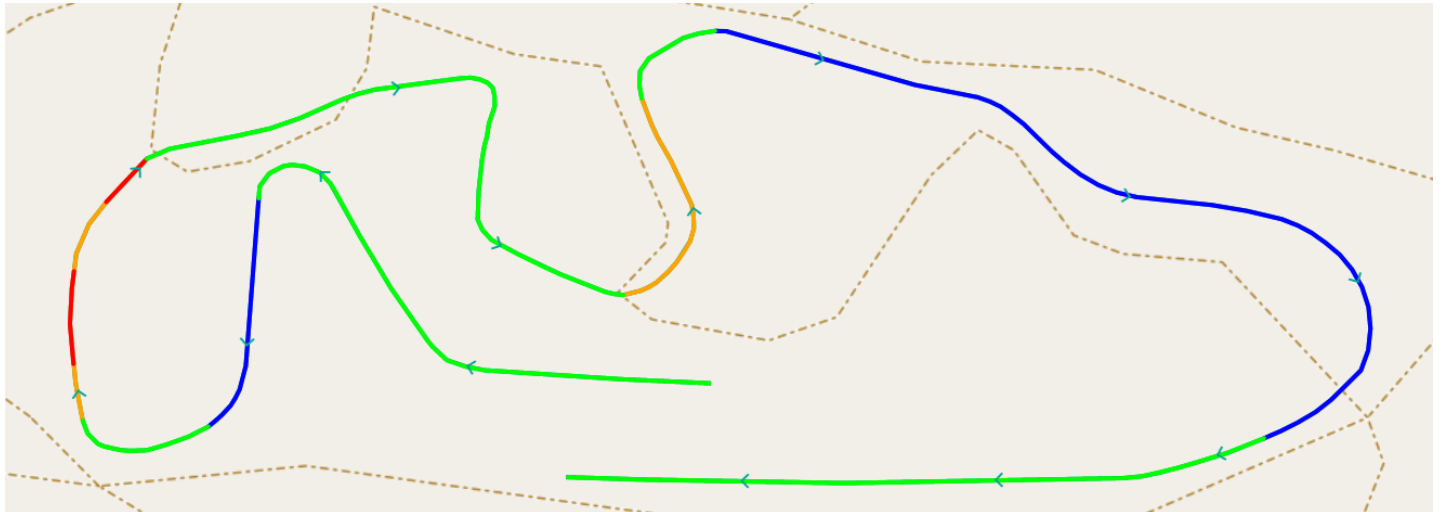
CERTIFICATE
OF FIS HOMOLOGATED CROSS-COUNTRY COURSE
FIS CROSS-COUNTRY COMMITTEE

(1) Registration number:	
(2) Name of the competition site:	Tannen ski stadium
(3) Name of city/region:	Lycksele / Lappland
(4) Organizer:	Lycksele IF
(5) National ski association:	Swedish Ski Association
(6) Contact person in the organizing committee:	Melker Fredriksson
(7) Homologation inspector:	Jonas Braam
(8) Name of course:	Sprint 1,36 km
(9) Competition level for course:	COC

Course length:	1,364m	Height difference (HD):	17m	Lowest point:	230m
Course category:	D	Maximum climb (MC):	16m	Highest point:	247m
		Total climb (TC):	42m		



A-climb B-climb C-climb descent undulated terrain



FIS Office

FIS Stamp

FIS Homologation
Responsible

Date of Issue

Valid until

(10) Overview of the uphill:

	No.	PTC	% of TC
- shorter climbs	2	27	64.3
- steep climbs	2	0	0.0
- descents	2	0	0.0
- undulated terrain	5	15	35.7

(11) Stadium area:

		Indoor working room:	
Fixed stadium area	yes	Timekeeping	yes
Fixed building	yes	Announcer	yes
Temporary stadium	no	Jury	yes
Temporary building	no	Race office	yes
Good infrastructure (access, parking, media, etc.)	yes		
Skitesting area along course/near stadium	yes		
Warm up track near the stadium	yes		

(12) Category for the stadium and course layout:

	Interval	Sprint	Skiathlon	Relay	Mass start
Stadium suitable for following competition formats	yes	yes		yes	yes
Course suitable for following competition formats with					
a) Classical technique		yes			
b) Free technique		yes			
Course suitable for relay and skiathlon competition					
a) On same course					
b) Combined on different courses (C+D or D+D)					

(13) Possibility of snow making:

Modern automatic snow making system covering the course

(14) Map Material:

Good

(15) Source of accurate elevation data:

DEM from LiDAR measurements in year 2010 and 2013, together with manual measurements from GPS with barometric height meter.

(16) Safety considerations:

None

(17) General remarks:

None

(18) Date of first inspection: 2019/8/13

(19) Date of final inspection: 2019/12/2

(20) Summary of terrain characteristics

	#	at m	PHD (m)	PTC (m)	grad. (%)	avg. grad.(%)	
A-climb	total			0			0.0% part of TC
B-climb	1	336	16	16	9.9 - 28.4	15.8	C at 416m, PTC: 4m, 19.0%
	2	669	11	11	6.9 - 17.7	12.9	C at 356m, PTC: 7m, 21.2%
	total			27			64.3% part of TC
C-climb	total			0			0.0% part of TC
undulated terrain	total			15			35.7% part of TC
	total climb			42			