

Routinely Licensed Input power density (dBW/4 kHz) -14  
Maximum antenna Gain (dBi) 41.2  
Maximum EIRP density of carrier (dBW/4 kHz) 23.9  
Non-routinely sized antenna input Power density (dBW/4 kHz) -17.3

Value of Theta (degrees)	25.209(a)(1) Co-Pol Gain	Off-Axis EIRP Density under Routine Licensing	Non-Routinely sized Antenna Off-Axis Gain (dBi) Actual 1.25 - 1.8° 25.209 =>1.8°	Max off-axis EIRP Density of non-routinely sized antenna (dBW/4kHz)	Margin	Comment
1.25	26.6	12.6	39.45	22.15	-9.6	Tracstar Controller maintains antenna pointing accuracy within 0.2°
1.5	24.6	10.6	36.2	18.9	-8.3	
1.75	22.9	8.9	26.2	8.9	0.0	
2	21.5	7.5	21.5	4.2	3.3	AVL model 965KCB compliant with FCC §25.209 > 1.8° (Reference - AVL 965KCB Specification included as attachment)
2.5	19.1	5.1	19.1	1.8	3.3	
3	17.1	3.1	17.1	-0.2	3.3	
3.5	15.4	1.4	15.4	-1.9	3.3	
4	13.9	-0.1	13.9	-3.4	3.3	
4.5	12.7	-1.3	12.7	-4.6	3.3	
5	11.5	-2.5	11.5	-5.8	3.3	
6	9.5	-4.5	9.5	-7.8	3.3	
7	7.9	-6.1	7.9	-9.4	3.3	
7.1	8.0	-6.0	8.0	-9.3	3.3	
9.2	8.0	-6.0	8.0	-9.3	3.3	
10	7.0	-7.0	7.0	-10.3	3.3	
11	6.0	-8.0	6.0	-11.3	3.3	
12	5.0	-9.0	5.0	-12.3	3.3	
15	2.6	-11.4	2.6	-14.7	3.3	
18	0.6	-13.4	0.6	-16.7	3.3	
19	0.0	-14.0	0.0	-17.3	3.3	
20	-0.5	-14.5	-0.5	-17.8	3.3	
25	-2.9	-16.9	-2.9	-20.2	3.3	
30	-4.9	-18.9	-4.9	-22.2	3.3	
35	-6.6	-20.6	-6.6	-23.9	3.3	
40	-8.1	-22.1	-8.1	-25.4	3.3	
48	-10.0	-24.0	-10.0	-27.3	3.3	
50	-10.0	-24.0	-10.0	-27.3	3.3	
60	-10.0	-24.0	-10.0	-27.3	3.3	
70	-10.0	-24.0	-10.0	-27.3	3.3	
80	-10.0	-24.0	-10.0	-27.3	3.3	
90	-10.0	-24.0	-10.0	-27.3	3.3	
100	-10.0	-24.0	-10.0	-27.3	3.3	
120	-10.0	-24.0	-10.0	-27.3	3.3	
140	-10.0	-24.0	-10.0	-27.3	3.3	
160	-10.0	-24.0	-10.0	-27.3	3.3	
180	-10.0	-24.0	-10.0	-27.3	3.3	