Table E: List of Selected Scenarios for Safety Testing of ADS using $D1$ - O_{d1}

Sr. #	Groups	Scenario Name	Identifier	Score	Priority
G3	Following Lead Vehicle	Ego vehicle approaching slower lead vehicle	S_{17}	28	1
		Turning lead vehicle	S_{18}	26	2
		Inattentive, Rear	S_{19}	23	3
		Stutter Stop	S_{20}	23	3
G5	Crossing Path	Oncoming vehicle turns right at signalized junction	S_{25}	28	4
		Sirens	S_{29}	28	4
		Entering a roundabout with another vehicle	S_{28}	27	5
		Left Turn Clip	S_{30}	26	6
		Wrong Driveway	S_{31}	26	6
		Run Red Into Left Turner	S_{33}	26	6
		Misjudgment, Left Turn	S_{34}	26	6
		Wave to Go	S_{32}	23	7
		Navigating on an empty roundabout	S_{27}	22	8
		Ego vehicle turns right with oncoming vehicle at signalized junction	S_{26}	21	9
G2	Lane Change	Cut-in in front of the ego vehicle	S_4	28	10
		Cut-out in front of the ego vehicle	S_7	28	10
		Vehicle swerving towards ego vehicle	S_8	28	10
		Vehicle backing up into the ego vehicle	S_9	28	10
		Impassable object on intended path	S_{10}	28	10
		Object road with incoming traffic	S_{12}	28	10
		Driving straight	S_{13}	28	10
		U-Turn	S_{16}	28	10
		Ego performing lane change with the vehicle behind	S_5	24	11
		Ego merging into an occupied lane	S_6	24	11
		Passable object on intended path	S_{11}	24	11
		Avoidance, Rear	S_{14}	24	11
		Lane Change, Rear.	S_{15}	24	11
G3	Opposite Direction	Oncoming vehicle swerving into ego vehicle's lane	S_{64}	28	12
		Oncoming vehicle	S_{65}	28	12
G7	Pedestrian Interaction	Jaywalking	S_{36}	27	13
		Pedestrian crossing at zebra crossing	S_{37}	27	13
		Pedestrian running a red light	S_{41}	27	13
		Struck Human	S_{45}	27	13
		Pedestrian stationary at road side	S_{39}	26	14
		Pedestrian walking along the road	S_{40}	26	14
		Pedestrian at left turn at signalized junction	S_{42}	25	15
		Pedestrian in same direction obstructed at ego left turn	S_{43}	25	15
		Zebra crossing	S_{38}	23	16
		Pedestrian at right turn at signalized junction	S_{44}	20	17
G8	Cyclist Interaction	Cyclist crossing from left side at signalized junction	S_{46}	25	18
		Cyclist crossing from right side at signalized junction	S_{47}	25	18
		Ego vehicle approaching cyclist riding in same direction	S_{48}	25	18
		Ego vehicle driving alongside a cyclist	S_{49}	25	18
		Cyclist and ego vehicle driving in opposite direction	S_{50}	25	18
		Cyclist turning left and ends up in lane of ego vehicle	S_{56}	25	18
		Cyclist turning right and ends up in lane of ego vehicle	S_{57}	25	18
		Entering a roundabout with a cyclist Interaction	S_{54}	24	19
		Leaving a roundabout with a cyclist	S_{55}	24	19
		Cyclist at left turn at signalized junction	S_{51}	23	20
		Cyclist driving in same direction obstructed at ego left turn	S_{52}	23	20
		Cyclist at right turn at signalized junction	S_{53}	18	21