Hazard ID								Hazard Identification						Hazardous Event Classification							Determination of ASIL and Safety Goals
	Operational Mode	Operational Scenar	io Environmental Details	Situation Details	Other Details (optional)	Item Usage (function)	Situation Description	Function	Deviation	Deviation Details	Hazardous Event (resulting effect)	Event Details	Hazardous Event Description	(of situation)	Rationale (for exposure)	Severity (of potential harm)	Rationale (for severity)	Controllability (of hazardous event)	Rationale (for controllability)	ASIL Determination	Safety Goal
HA-001	Normal Driving	Highway	Normal Conditions	High Speed		Correctly Used	Typical use case: Normal driving on a highway at high speed under optimal driving conditions with activated Lane Departure Warning function	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback	Actor effect is too much	The LDW function applies an oscillating torque with very high torque (above limit)	Collision with other vehicle	High haptic feedback can affect driver's ability to steer as intended. The driver could lose control of the vehicle and collide from the side with another vehicle or with road infrastructure		E3 Medium Probability: Occurs once a month or more often for an average driver	Driving on highways with high speed is a common scenario for e.g. commuters which would lead to an exposure of E4, but a lot of vehicles are used for inner city traffic, so exposure E3 is chosen		Although most vehicles contain safety equipment like airbags, collisions at high speed lead ofter to severe injuries	C3 Difficult to control or uncontrollable	At high speeds the car is likely to lose stability due to abrupt movements of the steering wheel	С	The oscillating steering torque from the lane departure warning function shall be limited.
HA-002	Normal Driving	Country Road	Normal Conditions	High Speed		Incorrectly used	Typical use case: Normal driving on country road road under optimal driving conditions with activated Lane Keeping Assistance Function	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	Function always activated	The LKA function is always active and driver misuses the system by taking off both hands from steering wheel		Because both hands are off the steering wheel the driver can't control the vehicle and the vehicle collides from the side with anothe vehicle or with road infrastructure		E2 Low Probability: Occurs a few times a year for the great majority of drivers	As country roads have more intersections (compared with highways) and are often curvy, drivers are not too often tempted to misuse the LKA function as autopilot	S3 Life-threatening or fatal injuries	on country roads speeds are often as high as on highways	C3 Difficult to control or uncontrollable	Since the driver has both hands off the steering wheel, heishe can't react fast enough to steer the vehicle in a safe direction	В	The LKA function shall be time limited and the additional torque shall end after a given time interval so that the driver cannot missue the system for autonomous driving.
HA-003	Normal Driving	Highway	Fog (degraded view)			Correctly Used	Rather seldom use case: Normal driving on a highway at high speed under degraded view conditions by fog with activated Lane Departure Warning function	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback	Actor effect is too much			High haptic feedback can affect driver's ability to steer as intended. The driver could lose control of the vehicle and collide from the side with another vehicle or with road infrastructure		E1 Very Low Probability: Occurs less often than once a year for the great majority of drivers	Most drivers reduce voluntarily the speed under bad visibility conditions, although sometimes drivers can be surprised by fog banks	S3 Life-threatening or fatal injuries	speeds on highways are often high	C3 Difficult to control or uncontrollable	At high speeds the car is likely to lose stability due to abrupt movements of the steering wheel	A	The oscillating steering torque from the lane departure warning function shall be limited, the LDW function shall not be available under poor visibility conditions
HA-004	Normal Driving	Country Road	Snow (slippery road)	High Speed		Incorrectly used	on country road under slippery road conditions because of snow with	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane	Function always activated	The LKA function is always active and driver misuses the system by taking off both hands from steering wheel	s Collision with other vehicle	Because both hands are off the steering wheel the driver can't control the vehicle and the vehicle collides from the side with anothe vehicle or with road infrastructure		E1 Very Low Probability: Occurs less often than once a year for the great majority of drivers		S3 Life-threatening or fatal injuries	speeds on highways are often high	C3 Difficult to control or uncontrollable	Addional difficulty of slippery road to the hands off scenario	A	The LKA function shall be time limited and the additional longue shall end after a given time interval so that the driver cannot missues the system for autonomous driving. Additionally the temperature and the traction of the road should be checked so that the LKA function can't be activated at low temperatures and slippery road.