Hazard ID				Situational Analysis				Hazard Identification						Hazardous Event Classification						Determination of ASIL and Safety Goals	
	Operational Mode	Operational Scenario	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	Exposure (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	OM03 – Normal driving	OS04 – Highway	EN06 – Rain (slippery road)	SD02 - High speed	N/A	IU01 – Correctly used	Normal driving on a highway during rain (slippery road) with high speed and correctly used system.	ane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback.	DV04 – Actor effect is too much	The LDW function applies an oscillating torque with very high torque (above limit).	EV00 - Collision with other vehicle	High haptic feedback can affect driver's ability to steer as intended. The driver could loose control of the vehicle and collide with another vehicle or with road infrastructure.	The LDW function applies too high an oscillating	E3 – Medium probability	A high speed driving on a highway often occurs at least once a month for an average driver.	S3 – Life-threatening injuries	On highways the car speed is expected to be high. In case of crash it may lead to fatal injuries.	C3 – Difficult to control or uncontrollable	Due to excessive vibration, the wild swings of the steering wheel may cause difficulty for most drivers controlling the vehicle.	С	The oscillating steering torque from the lane departure warning function shall be limited.
HA-002	OM03 – Normal driving	OS03 – Country Road	EN01 – Normal conditions	SD02 - High speed	N/A	IU02 – Incorrectly used	Normal driving on country roads during normal conditions with high speed and incorrectly used system (the driver is misusing the lane keeping assistance function as a fully autonomous function).	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane.	DV03 – Function always activated	The LKA function is always activated.	EV00 – Collision with other vehicle	The driver can misuse the function by taking both hands off the wheel and incorrectly treating the car as a fully autonomous vehicle.	The LKA function is always activated that causes the driver to treat the function as if it were meant for fully autonomous driving and stop focusing on the road.	E2 – Low probability	The misuse of the LKA function on country roads may occur no more than a few times a year for the great majority of drivers.	S3 – Life-threatening injuries	On country roads the car speed is expected to be high. In case of crash it may lead to fatal injuries.	C3 – Difficult to control or uncontrollable	With both hands off the steering wheel at high speed, a vehicle accident would not be controllable.	В	The LKA function shall be time limited and the additional steering torque shall end after a given time interval so that the driver cannot misuse the system for autonomous driving.
HA-003	OM03 – Normal driving	OS02 – City road	EN01 – Normal conditions	SD01 - Low speed	N/A	IU01 – Correctly used	Normal driving on a city road during normal conditions with low speed and correctly used system.		DV12 – Sensor sensitivity is too high	The LDW function applies an oscillating torque too often, even in situations when the displacement from the center of the lane is within acceptable bounds.	EV-02 – Side collision with other traffic	Due to the very high sensor sensitivity, the steering wheel vibration may often be applied wrongly, which may lead to the situation when the driver may ignore the warning.	The LDW function is too often false-positively activated, and the driver starts ignoring its notifications.	E4 – High probability	A low speed driving on a city road occurs almost every day for an average driver.	S1 – Light and moderate injuries	Even if vehicles in other lanes move significantly faster than the ego car, in case of the side collision the angle between cars would be sharp and there would not be much harm to the driver.	C1 – Simply controllable	The driver is expected to keep his hands on the steering wheel but his attention may be distracted and in some cases he may not react properly.	QM	The hyper sensor sensitivity from the LDW function shall be prevented.
HA-004	OM03 – Normal driving	OS10 – Road with construction site	EN04 – Snowfall (degraded view)	SD02 - High speed	N/A	IU01 – Correctly used	Normal driving on a road with construction site during snowfall (degraded view) with high speed and correctly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in ego lane.	DV15 – Sensor detection too late	The LKA function does not detect the driver intervention on time and applies the steering torque in reverse of the driver's intention.	EV-04 – Front collision with obstacle	The LKA function fails to detect the driver's intervention on time and applies the steering torque in the opposite direction of driver's intention, which prevents him from leaving the lane before the collision with the obstacle.	intervention too late and applies the torque in	E2 – Low probability	During the winter, there are some days with heavy snowfall with degraded view and there are some constructions on roads. Driving on such roads in such weather may occur a few times a year with an average driver.	S3 – Life-threatening injuries	Front collision with an obstacle with a high speed is most likely to cause very severe life-threatening injuries or death of the driver.	C3 – Difficult to control or uncontrollable	A torque applied by the driver may not be enough to overcome the steering torque applied in reverse direction by the LKA function because the LKA function is not able to detect the drivers intervention on time.	В	The steering torque applied by the LKA function shall be limited, and the LKA function sensors shall detect the driver's intervention on time.