

Hazard ID	Situational Analysis						Hazard Identification		Hazardous Event Classification								Reiteration 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 /insulting 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)	SE02 - High speed		UD01 - Correctly used	Normal driving on a highway during rain (slippery road) with high speed and correctly used system.	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback.	DV04 - Actor effect is too much	The Lane Departure Warning function applies an oscillating torque with very high torque (above limit.)	EV01 - Collision with other vehicle.	High haptic feedback can affect driver's ability to steer as intended. The driver loses control and could collide with another vehicle or side of the road.	The Lane Departure Warning function applies an oscillating torque with very high torque (above limit.)	E3 - Medium probability	Driving on a highway with rain could happen between 1% and 10% of the time operating the vehicle.	S3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	It is difficult to stay calm and react properly when the steering wheel is moving too much.	C	The oscillating steering torque from the Lane Departure Warning function shall be limited.
HA-002	OM03 - Normal Driving	OS03 - Country Road	EN01 - Normal conditions	SE02 - High speed		IU02 - Incorrectly used	Normal driving on a country road during normal conditions with high speed and incorrectly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in lane.	DV03 - Function is always activated	Lane Keeping function is always activated	EV02 - Collision with other vehicle.	Driver use the function as if the car was a self-driving car and loose driving attention.	The driver do not use the function properly.	E2 - Low probability	The convolution between driving at a country road and misusing system should not happen often. Less than 1% of the time operating the vehicle.	S3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	When the driver loses focus on driving, it is difficult to re-focus in the case of imminent collision.	B	The Lane Keeping Assistance function shall be time limited, and additional steering torque shall end after a given time interval so the driver cannot misuse the system for autonomous driving.
HA-003	OM03 - Normal Driving	OS04 - Highway	EN01 - Normal conditions	SE02 - High speed		UD01 - Correctly used	Normal driving on a highway during normal conditions with high speed and correctly used system.	Lane Departure Warning (LDW) function shall apply an oscillating steering torque to provide the driver with haptic feedback.	DV02 - Function unexpectedly activated	The camera sensor stop working and the Lane Departure Warning function continue to be activated.	EV02 - Collision with other vehicle.	The Lane Departure Warning continue to be activated and start executing random torque to the steering wheel making the driver to loose control with potential collision with other vehicle.	The Lane Departure Warning start acting randomly when the camera sensor is not working.	E3 - Medium probability	Driving on a highway with rain could happen between 1% and 10% of the time operating the vehicle.	S3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	When the driver loses control of the vehicle is very difficult to realize the situation and act accordingly.	C	The Lane Departure Warning function shall be deactivated when the camera sensor stop working.
	OM03 - Normal Driving	OS03 - Country Road	EN01 - Normal conditions	SE02 - High speed		UD01 - Correctly used	Normal driving on a country road during normal conditions with high speed and correctly used system.	Lane Keeping Assistance (LKA) function shall apply the steering torque when active in order to stay in lane.	DV02 - Function unexpectedly activated	The camera sensor stop working and the Lane Keeping Assistance function continue to be activated.	EV02 - Collision with other vehicle.	The Lane Keeping Assistance continue to be activated starting executing random torque to the vehicle making the driver to loose control with potential collision with other vehicle.	The Lane Keeping Assistance start acting randomly when the camera sensor is not working.	E3 - Medium probability	Driving on a highway with rain could happen between 1% and 10% of the time operating the vehicle.	S3 - Life-threatening or fatal injuries	Collisions at high speed could cause fatal injuries.	C3 - Difficult to control or uncontrollable	When the driver loses control of the vehicle is very difficult to realize the situation and act accordingly.	C	The Lane Keeping Assistance function shall be deactivated when the camera sensor stop working.