

Hazard ID			
	Operational Mode	Operational Scenario	Environmental Details
HA-001	Normal Driving	Highway	Rain(Slippery Road)
HA-002	Normal Driving	Country Road	Normal Conditions
HA-003	Normal Driving	Highway	Fog(Degraded View)
HA-004	Normal Driving	Highway	Cross-wind(Lateral Force)

Situational Analysis			
Situation Details	Other Details (optional)	Item Usage (function)	Situation Description
High Speed		Correct Usage	Normal Driving on a highway during rain with high speed and correctly used
High Speed		Incorrect Usage	Driver is misusing the lane keeping
High Speed		Correct Usage	Normal Driving on a highway during fog
High Speed		Correct Usage	Normal Driving on a highway during

Hazard Identification			
Function	Deviation	Deviation Details	Hazardous Event (resulting effect)
Lane Departure Warning (LDW)	Steering wheel Vibrates too	LDW function applies oscillating torque with very	Collision with other vehicle
Lane Keeping	Lane Keeping	Lane Keeping Assistance	Collision with other
Lane Departure	Function	Due to reduced visibility,	Car Comes off road
Lane Keeping	Actor effect is	If the direction of strong	Collision with other

Event Details	Hazardous Event Description	Exposure (of situation)
High haptic feedback can affect the driver's ability to steer as	The LDW function applies too high an oscillating	E3
The driver assumes that the lane	Collision with another vehicle	E2
As visibility is low, the car may	Lane departure warning	E3
If the amount of torque applied is	Amount of torque applied is	E3

Hazardous Event Classification

Rationale (for exposure)	Severity (of potential harm)	Rationale (for severity)	Controllability (of hazardous event)
According to functional safety standards, highway driving on wet	S3	Driver travelling at high speed	C3
The driver is on a country road	S3	Driver travelling at	C3
Highway Driving on foggy roads	S3	Driver travelling at	C3
Highway Driving on windy roads	S3	Driver travelling at	C2

Determination of ASIL and Safety Goals		
Rationale (for controllability)	ASIL Determination	Safety Goal
Most drivers would have difficulty in controlling the vehicle if the steering wheel vibrates	C	The oscillating steering torque from the lane departure warning function shall be limited
The lane keeping assistance is always on so	B	The Lane keeping assistance function shall
A wrong steering action made by the driver at	C	The lane departure warning function shall be
Driver can control the vehicle and steer it into the	B	The lane keeping assistance function shall