

Z			
Catagroy	Config of PA (PulseAudio)	PA on	Comments
base	Verify firmware presence	Passed	
	Verify kernel model load probe	Passed	
	Verify SOF firmware load	Passed	
	Verify topology binary	Passed	
	Verify PCM device list	Passed	This feature can work, but seldomly audio IPC timeout is observed #1254. [BUG][CML] Random IPC time out issues (<1%)
	Check SOF logger	Passed	
	Check Alasmixer config	Failed	#867: [BUG][CML] Headset mic boost and Headphone mic boost are listed in F3 playback view via alsamixer.
speaker test	aplay - playback over speaker	Passed	
	stop/resume playback over speaker	Passed	
	Playing -> pause -> s3 -> wakeup -> resume over speaker	Passed	
	repeat 3 times playback over speaker	Passed	
	Pause/Resume playback over speaker	Passed	
	Play an audio for 3 minutes	Passed	
	Suspend & Resume device during audio playback	Passed	
headset test	Change volume during playback.	Passed	
	aplay - playback over headset	Passed	
	stop/resume playback over headset	Passed	
	Playing -> pause -> s3 -> wakeup -> resume over headset	Passed	
	repeat 3 times playback over headset	Passed	
	Pause/Resume playback over headset	Passed	
	Play an audio for 3 minutes	Passed	
HDMI test	Suspend & Resume device during audio playback	Passed	
	Change volume during playback.	Passed	
	aplay - playback over HDMI	Passed	
	stop/resume playback over HDMI	Passed	
	Playing -> pause -> s3 -> wakeup -> resume over HDMI	Passed	
	repeat 3 times playback over HDMI	Passed	
	Pause/Resume playback over HDMI	Passed	
DP test	Play an audio for 3 minutes	Passed	
	Suspend & Resume device during audio playback	Passed	
	Change volume during playback.	Passed	
	aplay - playback over DP	Passed	
	stop/resume playback over DP	Passed	
	Playing -> pause -> s3 -> wakeup -> resume over DP	Passed	
	repeat 3 times playback over DP	Passed	
Capture test (HDA Analog)	Pause/Resume playback over DP	Passed	
	Play an audio for 10 minutes	Passed	
	Suspend & Resume device during audio playback	Passed	
	Change volume during playback.	Passed	
	arecord - capture over headset (HDA Analog)	Passed	
	Change volume during capture.	Passed	
	Pause/Resume capture	Passed	
Capture test (DMIC32)	Capturing -> pause -> s3 -> wakeup -> resume	Passed	
	Capture a audio for 5 minutes via HDA Analog	Passed	
	repeat 3 times capture	Passed	
	Stop/Resume capture	Passed	
	Suspend & Resume device during audio capture	Passed	
	arecord - hot plug Microphone during recording	Passed	
	arecord - capture over DMIC32	Passed	
Capture test (DMIC16)	arecord - capture over DMIC32	Passed	This feature can work, but delay is a bit long for big volume change #1297. [CML] Volume changed response delay about 3-5s during DMIC recording
	Change volume during capture.	Passed	
	Pause/Resume capture	Passed	
	Capturing -> pause -> s3 -> wakeup -> resume	Passed	
	Capture a audio for 5 minutes	Passed	
	repeat 3 times capture	Passed	
	Stop/Resume capture	Passed	
MultiPipeline	Suspend & Resume device during audio capture	Passed	
	arecord - capture over DMIC16	Passed	This feature can work, but delay is a bit long for big volume change #1297. [CML] Volume changed response delay about 3-5s during DMIC recording
	Change volume during capture.	Passed	
	Pause/Resume capture	Passed	
	Capturing -> pause -> s3 -> wakeup -> resume	Passed	
	Capture a audio for 5 minutes	Passed	
	repeat 3 times capture	Passed	
General	Stop/Resume capture	Passed	
	Suspend & Resume device during audio capture	Passed	
	Do playback and capture at same time	Failed	
	2 aplay_Both HDA Analog	Failed	#874: [BUG][CML] HDA Analog and HDA Digital pipeline will interact with each other.
	2 aplay_2 HDMI (HDMI + DP)	Failed	#878: [Bug][CML] HDMI aplay no output if HDMI and DP are both connected and DP aplay is not used before.
	2 aplay_HDA Analog + HDMI	Passed	
	3 aplay + 3 arecord at same time	Passed	
Stress Test	Check the audio channel via speaker-test	Passed	
	Suspend & Resume device without audio playback or capture	Passed	
	Check Alasmixer config after Suspeand & Resume	Passed	
	Check the runtime PM status	Passed	
	Check hot-plug: jack, HDMI & DP	Passed	Hotplug can work, but latency is a bit long. #865: [BUG][CML] HDMI aplay still work for about 5mins after plugout HDMI and restart aplay.
	Check hot-plug: jack, HDMI & DP during Suspended	Passed	
	paplay - Play an audio with high-level audio player	Passed	
Stress Test	parecord - Record an audio with high-level audio recorder	Passed	
	System Sound Setting_Mic Only, headphone, headset: Audio input and output f	Passed	GUI can show all audio i/o devices, but we cannot see GNOME pop up menu when headset is connected. Seems NOT driver issue but Pulseaudio limitation to support UCM. #892 [Bug][CML][UCM] No headset/headphone/micphone selection query when plug in headset after enable UCM.
	Modules reload	Passed	
	Suspend & Resume without playback_90 times	Passed	
	Suspend & Resume with playback_Analog_90 times	Passed	
	Suspend & Resume with playback_HDMI_90 times	Passed	
	Suspend & Resume with playback_DP_90 times	Passed	

volume change_1000	Passed													
Issue														
1. #1254: [BUG][CML] IPC time out issues														
2. #874: [BUG][CML] HDA Analog and HDA Digital pipeline will interact with each other.														
3. #1297: [CML] Volume changed response delay about 3-5s during DMIC recording														
4. #878: [Bug][CML] HDMI aplay no output if HDMI and DP are both connected and DP aplay is not used before.														
5. #865: [Bug][CML] HDMI aplay still work for about 5mins after plugout HDMI and restart aplay.														
6. #892: [Bug][CML] UCM No headset/headphone/micphone selection query when plug in headset after enable UCM														
7. #867: [BUG][CML] Headset mic boost and Headphone mic boost are listed in F3 playback view via alsactl.														
Test Recipe														
Kernel repo: https://github.com/theseofproject/linux/commits/release/sof-5.0-slim-377d91d														
Firmware repo: https://github.com/theseofproject/sof/commits/v1.3-rc3-c540305 [theseofproject/sof_master]														
Topology: https://github.com/theseofproject/sof/commits/v1.3-rc3 file: tools/topology/sof-hda-generic.m4, sof-hda-generic-2ch.tplg														
How to generate HDA kconfig														
1. git clone kconfig repo (git clone https://github.com/theseofproject/kconfig.git), and keep the repo on the same directory level with <linux-root-directory>														
2. cd <linux-root-directory>														
3. echo -e "# FORCE NO HDA PCI#\nCONFIG_SND_HDA_INTEL is not set" > ./sof-nohdapci-defconfig # Or blacklist the legacy HD-A driver snd_hda_intel for Mantis														
4. make defconfig														
5. scripts/kconfig/merge_config.sh .config ./kconfig/base-defconfig ./kconfig/sof-defconfig ./kconfig/hdaudio-codecs-defconfig ./sof-nohdapci-defconfig ./sof-xrun-defconfig														