	Da Hsing Rd. 3U3 Fi DV	AIC Inc. AIC Inc. No. 9, Alley 19, Lane2 Luchu Township, Tae TEL: +886-3-313838 FAX:+886-3-313837 32-12G JE 32-12G JE Inctionali Test Rej 0. : FM170526A	BOD 7 BOD ty por) t	
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	Originate Date	Revision		Status	
	2017/5/26	A1		DVT	
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	Revision His	tory	
	Revisons		
REV.	DESCRIPTION	DATE	Engineer
AO	3U32-12G JBOD Functionality EVT Tes Backplane:B40-1SM4CMAF00B100 Expander:B46-LSSCXXK-00B000 F/W: 0.0.0.0 03/28/2016 18:02 MFG: 0.0.0.0 03/29/2016 09:02 MCU:0.2	2016/7/11	Jeffery Lu
AO	3U32-12G JBOD Functionality DVT Tes Backplane:B40-1SM4CMAF00B100 Expander:B46-LSSCXXK-00D000 F/W: 0.0.0.0 12/06/2016 17:25 MFG: 0.0.0.0 12/6/16 7:34 MCU:0.2	st 2017/5/26	Jeffery Lu
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2 Target Device Configuration and Environment

2.1 Table of Test Configuration

Host Configuration						
Item	Vender / Model	Detail				
Mortherboard	Intel S2600CP	Motherboard of the host				
Operation System 1	CentOS 6.5 x64	2.6.32-431.el6.x86_64				
Operation System 2	Microsoft Windows	Server 2012 R2 64-bit				
CPU	Intel	Xeon X5677 3.47GHz *2				
Memory	Micron	8GB DDR3-1600 * 2				
Hard Disk Drive	Seagate / ST9160511NS	SATA HDD / 160GB *1				

HBA Card Configuration							
Card	Vender / Model	Firmware ver.	BIOS ver.	Driver ver.	GUI ver.		
12G HBA	Avago 9300-16e	10.00.00.00	8.17.00.00	2.50.96.00	NA		
12G RAID	Avago 9380-4i4e	4.620.00-5026	6.30.03.0_4.17. 08.00	6.707.7.0	16.02.00.04		

3U32 JBOD HDD Configuration						
Vender / Model	Interface	Detail				
Toshiba /MG04SCA40EE	SAS 12G	4TB/ FW:0103				
Seagate/ST4000NM0023	SAS 6G	4TB/ FW:0003				
Toshiba /MG04ACA6	SATA 6G	6TB/ FW:FS2B				

2.2 DUT Main Hardware Configuration							
DUT Main Hardware Configuration							
Ite	em	Product Number	Quantity	Detail			
Expande	er board	B46-LSSCXXK-00D00	1	DB-EXPD18-TY Rev:D			
Backplar	ne board	board B40-1SMC4CMAF00B100 8 BP-HD1S04-7		4-TY rev:B			
Firm	Firmware 0.0.0.0 12/06/2016 17:25						
MF	G	0.0.0 12/6/16 7:34					
MC	CU	0.2					
Ite	em	Product Number	Quantity	Detail			
Power House		PSU1A2B0800115C1Z0	1	ZIPPY/2U/1+1 REDUNDANT/3C CERTIFIE			
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No.		Item Test	
3.01		Redundant Power Module	
Test Proce	dure	Criteria	Result
Perform Hot-swap the power module and power cord ten times, and verify the functions be listed on		Hot-swap PSU under 'power on' state, check fail led, beeper, and console status that can work	Pass
		Power cord interrupt, check fail led, beeper, and console status that can work properly.	Pass
		PSU status under GUI that can work properly.	Pass
right side.		PSU status under console that can work properly.	Pass
		Mute button of PSU that can work properly.	Pass
N			
No.		Item Test	
3.02		System Fan	Desult
Test Proce	dure	Criteria	Result
		Remove the fan ten times, check fail led, GUI, and console status that can work properly.	Pass
	C	Fan status under GUI that can work properly.	Pass
Perform the fan i and verify the fu listed on right sid	nctions be	Fan status under console that can work properly.	Pass
		For Smart Fan feature, if temperature upgrade, the rotational speed of fan was increased (depend on spec.) that can work properly.	Pass
		· · · · ·	
No.		Item Test	
3.03		Expander	
Test Proce	dure	Criteria	Result
Check channel of expander		Check PHY state and negotiated link speed, confirm the PHY contents with actual HDD configuration are correct.	Pass
	•		
Check channel of that function is c	•	Up connector is correct with substrate type.	Pass

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	ire	Burn-in Test	
Using performance	ire		
		Criteria	Result
Using performance assessment tool, let JBOD status was maintain full loading on 12 hours.		Adjust conf. to 100% read (in Iometer), the function can work properly after burn-in test.	
		Adjust conf. to 100% write (in Iometer), the function can work properly after burn-in test.	
No.		Item Test	
3.05		LED Function	
Test Procedu	ire	Criteria	Result
		Power LED blue, support enclosure ID, that can display as spec. defined.	Pass
		PSU alarm LED, that can display as spec. defined	Pass
		Temperature LED Red, that can display as spec. defined.	Pass
		Fan fail LED Red, that can display as spec. defined.	
		Tray 1 HDD failed LED, that can display as spec. defined.	
Check the function LED by visual inspe		s Tray 2 HDD failed LED, that can display as spec. defined.	
		Tray 3 HDD failed LED, that can display as spec. defined.	Pass
		Tray 4 HDD failed LED, that can display as spec. defined.	
		HDD accessed LED, that can display as spec. defined.	
		System Fail LED Red, that can display as spec. defined.	Pass

No.			Item Test		
3.06			Mute Button		
Test Procedure		dure	Criteria		Result
When the warning sound was activated, press the mute button to stop the warning sound.			Hot swap the power module ten times (Redundant), and warning sound can be stop by mute button.	ped	Pass
		ess the	Hot swap the fan module ten times, and warr sound can be stopped by mute button.	ning	Pass
			Temperature was detected over default alarm value (over 55 degrees centigrade), and warning sound can be stopped by mute button.		Pass
No.			Item Test		
3.07			Firmware Upgrade		
Test Pr	roce	dure	Criteria		Result
			Upgrade via debug port, it can be done successfully.		Pass
Upgrade the check the upgrade successful or	grad	le is	Upgrade via console port, it can be done successfully.		Pass
			Upgrade via inband, it can be done successfully.		Pass
No.			Item Test		
3,08			Temperature Sensor		
Test Pr	roce	dure	Criteria		Result
			T1, T2, warning, Alarm value configuration setting, that statuses are showing normally.		Pass
When temper \geqq designated			Temperature detected status under GUI, that statuses are showing normally.		Pass
GUI will pop-up warning message, then check the sensor statuses (w/ fan speed) from the RS232		neck the w/ fan	Temperature detected status under		Pass
console that a normally or n	are		Break through alarm value, then the fail led will light up, that statuses are showing normally.		Pass
			Break through alarm value, RPM of fan is the highest, that statuses are showing normally.		Pass
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No.		Item Test		
3.09		SES Lighting Signal		
Test Proc	edure	Criteria	Res	ult
		Request OK	Pas	SS
		Request RSVD device	Pas	SS
		Request hot spare	Pas	SS
		Request consistency check	Pas	SS
		Request in critical array	Pas	SS
		Request in failed array	Pas	SS
		Request rebuild/ remap	Pas	SS
	- htin a	Request rebuild/ remap aborted	Pas	SS
To verify SES lig signal, using sg		Request active	Pas	SS
to check lighting		Request do not remove	Pas	SS
each status is c	correct or	Request device missing indication	Pas	SS
not.		Request insert	Pas	SS
		Request removal	Pas	SS
		Request identify	Pas	SS
		Request fault indication	Pas	SS
		Request device off	Pas	SS
		Request Canister	Pas	ss
		Request Power supply off	Pa	SS
		Request PRD fail	Pas	SS
No.		Item Test		
3.10		Shake Test		
Test Proc	edure	Criteria	Res	ult
Power up the er use SAS Cable t backplane conne	o plug in ector, then	Bend the SFF-8644 cable, that the PHY status showing normally.	s is Pa	SS
shake SAS Cable with connector gently by hand, and check the PHY status is normally or not.		Shaking cable around the SFF-8644 junction, that the PHY status is showing normally.		SS
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No.		Item Test			
3.11		HDD Hot-swap			
Test Proc	edure	Criteria		Result	
Perform hot-swap HDD ten times under operating of JBOD.		Plug-in HDD, that JBOD function can work properly.		Pass	
		Remove HDD, that JBOD function can work properly.		Pass	
No.		Item Test			
3.12		External 8644 Hot-swap			
Test Proc	edure	Criteria		Result	
Perform externa		Plug-in external 8644, that JBOD function can work properly.	n	Pass	
swap ten times operating of JB(Remove external 8644, that JBOD function can work properly.		Pass	
No.		Item Test			
3.13	<u> </u>	AC/DC Power cycling			
Test Proc	edure	Criteria		Result	
Perform JBOD p cycling for ten t		Power on/off by AC power core (plug- in/removed), that JBOD function can work properly.		Pass	
		Power on/off by power button, that JBOD function can work properly.		Pass	
No.		Item Test			
3.14		SAS Zoning			
Test Proc	edure	Criteria		Result	
10001100	cuarc	Group8 and Group9 were run independently.		Pass	
Applying SAS Z	-	Group1 can detect Group8 and Group9.		Pass	
function to segr group, and obta of dual host tha	in benefit	All HDD of Group8 could build RAID and run Iometer properly.		Pass	
connect the same JBOD simultaneously.		And all HDD of Group9 could build RAID and run Iometer properly.		Pass	
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No.		Item Test		
3.15	JBOD Cascade			
Test Proce	edure	Criteria		Result
Cascade two 120 check substrate perform Diamete hrs.	table and	check substrate table and Diameter for 12 hr without error.	S	Pass
No.		Item Test		
3.16		Manually PWM		
Test Proce	edure	Criteria		Result
Under OS termir manual PWM fur		Check PWM % can be changed and FAN rpm speed up or low down by manual setting that work properly.		Pass
No.		Item Test		
3.17		DD command stress JBOD		
Test Proce	edure	Criteria		Result
Under Linux, use DD command to stress HDD		Stress JBOD without any CDB or error.		Pass
No.		Item Test		
3.18		diag_drive_led		
Test Proce	L edure	Criteria		Result
Key in "diag_drive_led"		The "diag_drive_LED" function can work prop	erly.	Pass
No.		Item Test		
3.19		enclosure addr		
Test Proce	edure	Criteria		Result
Key in "enclosure_addr xxxxxxxxxxxxx" (x is number), and key in "enclosure addr" to check function under console.		an	Pass	
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No.		Item Test			
3.20		sensor			
Test Pro	ocedure		Criteria		
	sensor" and check tems can be listed		Pass		
No.			Item Test		
3.21		serial num	ber and enclosure numbe	r	
Check CLI seria function is ok.	Check CLI serial number and enclosure number			Pass	
No.			Item Test		
3.22			EDFB ON/OFF		
Check CLI EDFB ON/OFF function is ok. Key in " EDFB ON/OFF items can be listed then running Iometer check EDFB ON/OFF function				Pass	
No.			Item Test		
3.23			MPIO		
Test Pro	ocedure		Criteria		Result
While using M which was one Server OS fun MPIO was ena OS, then chec mechanism su test item and or not.	e of Windows ctions, if bled under k UUT pports this	Single HBA card(at least 2 wide ports) was set upon motherboard, one piece of wide port cable connected primary expander board, another cable was connected secondary expander board. Enable MPIO feature, dual expander boards were worked properly at the same time. If one of cables was extracted and inserted into another wide port on same expander board, dual expander boards must still work properly. (It needs to wait for few minutes until MPIO was recovered.)		Pass	
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While using MPIO feature which was one of Windows Server OS functions, if MPIO was enabled under OS, then check UUT mechanism supports this test item and is workable or not.	Dual HBA cards were set upon the same motherboard, one piece of wide port cable connected primary expander board, another cable was connected secondary expander board. Enable MPIO feature, dual expander boards were worked properly at the same time. If one of cables was extracted and inserted into nearby wide port on same expander board, dual expander boards must still work properly. (It needs to wait for few minutes until MPIO was recovered.)	Pass

No.	Item Test			
3.24	AT Switch test : by power cord			
Test Procedure		Criteria		Result
Key in "power_setting keep_on" command under console, and AC power off by power cord removed, then wait 10 seconds to re- plug power cord to check JBOD can auto power on.		The function of "power_setting keep_on" can work properly.		Pass
Key in "power_setting keep_off" command under console, and AC power off by power cord removed, then wait 10 seconds to re- plug power cord to check JBOD can not auto power on.		The function of "power_setting keep_off" can work properly.		Pass
Key in "power_setting keep_last_state" command under console, and AC power off by power cord removed, then wait 10 seconds to re-plug power cord to check JBOD can auto power on.		The function of "power_setting keep_last_sta can work properly.	te"	Pass
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No.		Item Test			
3.25	.25 AT Switch test : by front power SW				
Test Pro	ocedure	Criteria	Result		
Key in "power keep_on" com console, DC po front power SV unplug power 10 seconds to power cord to can auto powe	mand under ower off by W, then cord and wait re-plug check JBOD	The function of "power_setting keep_on" can v properly.	work Pass		
Key in "power keep_off" com console, DC po front power SV unplug power 10 seconds to power cord to can not auto p	mand under ower off by N, then cord and wait re-plug check JBOD	The function of "power_setting keep_off" can work properly.	Pass		
Key in "power keep_last_stat under console, off by power c wait 10 second power cord to can auto powe	te" command , AC power ord, then ds to re-plug check JBOD	The function of "power_setting keep_last_state can work properly.	e" Pass		
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12G Raid Car	d AVAGO 9380-	4i4e		
4.1 AVAGO 9	380-4i4e with SAS 12			
RAID Function	Test Procedu	configuration	Criteria	Result
KAID FUNCTION	Create a RAID 0 volume			Pass
	Create a RAID 0 volume			Pass
	Create a RAID 1 Volume		-	
	Create a RAID 5 volume			Pass
	Create a RAID 0 volume			Pass
	Create a RAID 00 volume			
	Create a RAID 10 Volume			Pass
AVAGO 9280-	Create a RAID 50 Volume			Pass
L6i4e SAS			D function	Pass
RAID Card	Remove a RAID 0 volume Remove a RAID 1 volume	-	can work properly.	
	Remove a RAID 1 volume			
	Remove a RAID 5 volume			
	Remove a RAID 0 volume			
	Remove a RAID 10 volum			
	Remove a RAID 10 volun			
	Remove a RAID 50 volum			
	Rebuild a RAID 1 volume			
	Rebuild a RAID 1 volume			Pass Pass
	Rebuild a RAID 5 volume		-	
	Rebuild a RAID 8 volume			
	Rebuild a RAID 10 volum			Pass Pass
	Rebuild a RAID 50 volum			Pass
AVAGO 9280-	Full initialization a RAID (The RAID function can work properly.	
L6i4e SAS	Full initialization a RAID	The IGAI		
RAID Card	Full initialization a RAID		k property.	Pass Pass
	Full initialization a RAID S			
	Full initialization a RAID (Pass Pass
	Full initialization a RAID		-	
	Full initialization a RAID			
	Full initialization a RAID S			
				Pass
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SATA 6G configuration Test Procedure Test Procedure eate a RAID 0 volume eate a RAID 1 volume eate a RAID 5 volume eate a RAID 6 volume eate a RAID 00 volume eate a RAID 10 volume	Criteria	Result Pass Pass Pass Pass
eate a RAID 1 volume eate a RAID 5 volume eate a RAID 6 volume eate a RAID 00 volume		Pass Pass Pass
eate a RAID 5 volume eate a RAID 6 volume eate a RAID 00 volume		Pass Pass
eate a RAID 6 volume eate a RAID 00 volume	-	Pass
eate a RAID 00 volume	_	
ate a RAID 10 volume		Pass
		Pass
eate a RAID 50 volume		Pass
eate a RAID 60 volume	The RAID function	Pass
move a RAID 0 volume	can work properly.	Pass
move a RAID 1 volume		Pass
move a RAID 5 volume		Pass
move a RAID 6 volume		Pass
move a RAID 00 volume		Pass
move a RAID 10 volume		Pass
move a RAID 50 volume	-	Pass
move a RAID 60 volume		Pass
build a RAID 1 volume		Pass
build a RAID 5 volume		Pass
build a RAID 6 volume		Pass
build a RAID 10 volume		Pass
build a RAID 50 volume		Pass
build a RAID 60 volume		Pass
ll initialization a RAID 0 volume	The RAID function	Pass
ll initialization a RAID 1 volume	can work properly.	Pass
ll initialization a RAID 5 volume		Pass
ll initialization a RAID 6 volume		Pass
ll initialization a RAID 00 volume		Pass
ll initialization a RAID 10 volume		Pass
ll initialization a RAID 50 volume		Pass
	move a RAID 0 volume move a RAID 1 volume move a RAID 5 volume move a RAID 6 volume move a RAID 00 volume move a RAID 10 volume move a RAID 50 volume move a RAID 50 volume move a RAID 50 volume puild a RAID 5 volume puild a RAID 5 volume puild a RAID 5 volume puild a RAID 6 volume puild a RAID 10 volume puild a RAID 50 volume puild a RAID 60 volume	move a RAID 0 volume can work properly. move a RAID 1 volume can work properly. move a RAID 5 volume move a RAID 6 volume move a RAID 00 volume move a RAID 10 volume move a RAID 50 volume move a RAID 50 volume move a RAID 60 volume move a RAID 50 volume move a RAID 10 volume move a RAID 50 volume mould a RAID 5 volume mould a RAID 1 volume puild a RAID 6 volume mould a RAID 50 volume puild a RAID 10 volume mould a RAID 10 volume puild a RAID 10 volume mould a RAID 50 volume puild a RAID 10 volume mould a RAID 50 volume puild a RAID 50 volume mould a RAID 60 volume puild a RAID 50 volume mould a RAID 60 volume puild a RAID 60 volume mould a RAID 10 volume puild a RAID 60 volume mould a RAID 10 volume puild a RAID 60 volume mould a RAID 10 volume puild a RAID 10 volume mould a RAID 10 volume puild a RAID 10 volume mould a RAID 10 volume puild a RAID 10 volume mould a RAID 10 volume puild a RAID 10 volume mould a RAID 10 volume puild a RAID 10 volume mould a R

4.3 AVAGO9380-4i4e with SATA 6G HDD config					
RAID Function	SATA 6G configurat Test Procedure		Result		
RAID FUNCTION		Criteria			
	Create a RAID 0 volume	_	Pass		
	Create a RAID 1 volume	_	Pass		
	Create a RAID 5 volume	_	Pass		
	Create a RAID 6 volume	-	Pass		
	Create a RAID 00 volume		Pass		
	Create a RAID 10 volume	_	Pass		
AVAGO 9280-	Create a RAID 50 volume	_	Pass		
16i4e SAS	Create a RAID 60 volume	The RAID functio			
RAID Card	Remove a RAID 0 volume	can work proper	y. Pass		
	Remove a RAID 1 volume		Pass		
	Remove a RAID 5 volume		Pass		
	Remove a RAID 6 volume		Pass		
	Remove a RAID 00 volume		Pass		
	Remove a RAID 10 volume		Pass		
	Remove a RAID 50 volume	-	Pass		
	Remove a RAID 60 volume		Pass		
	Rebuild a RAID 1 volume		Pass		
	Rebuild a RAID 5 volume		Pass		
	Rebuild a RAID 6 volume		Pass		
	Rebuild a RAID 10 volume		Pass		
	Rebuild a RAID 50 volume		Pass		
	Rebuild a RAID 60 volume		Pass		
AVAGO 9280-	Full initialization a RAID 0 volume	The RAID functio	on Pass		
16i4e SAS RAID Card	Full initialization a RAID 1 volume	can work proper	y. Pass		
	Full initialization a RAID 5 volume	_	Pass		
	Full initialization a RAID 6 volume	_	Pass		
	Full initialization a RAID 00 volume	_	Pass		
	Full initialization a RAID 10 volume		Pass		
	Full initialization a RAID 50 volume		Pass		
	Full initialization a RAID 60 volume	_	Pass		
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ard Test		
AVAGO 9300-16e		
300-16e with SAS 12G HDD	Config	
SAS 12G config	uration	
Test Procedure	Criteria	Result
Perform AVAGO BIOS utility to verify HDD information.	All hard drives can be detected by AVAGO BIC utility.	DS Pass
Perform Disk management of OS to verify HDD information.	All hard drives can be detected by OS Disk management.	Pass
300-16e with SAS 6G HDD 0	Config	
SAS 6G config	uration	
Test Procedure	Criteria	Result
Perform AVAGO BIOS utility to verify HDD information.	All hard drives can be detected by AVAGO BIC utility.	DS Pass
Perform Disk management of OS to verify HDD information.	All hard drives can be detected by OS Disk management.	Pass
	<u> </u>	
		Result
Perform AVAGO BIOS utility to verify HDD information.	All hard drives can be	
Perform Disk management of OS to verify HDD information.	All hard drives can be detected by OS Disk management.	Pass
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	AVAGO 9300-16e 300-16e with SAS 12G HDD SAS 12G config Test Procedure Perform AVAGO BIOS utility to verify HDD information. Perform Disk management of OS to verify HDD information. 300-16e with SAS 6G HDD C SAS 6G config Test Procedure Perform AVAGO BIOS utility to verify HDD information. Perform Disk management of OS to verify HDD information. 300-16e with SATA 6G HDD SATA 6G config Test Procedure Perform AVAGO BIOS utility to verify HDD information. Perform Disk management of OS to verify HDD information. Perform Disk management of OS to verify HDD information. Perform AVAGO BIOS utility to verify HDD information. Perform Disk management of OS to verify HDD information.	AVAGO 9300-16e 300-16e with SAS 12G HDD Config SAS 12G configuration Test Procedure Criteria Perform AVAGO BIOS utility to verify HDD information. All hard drives can be detected by AVAGO BIO utility. Perform Disk management of OS to verify HDD information. All hard drives can be detected by OS Disk management. 300-16e with SAS 6G HDD Config SAS 6G configuration Test Procedure Criteria Perform AVAGO BIOS utility to verify HDD information. Perform Disk management of OS to verify HDD information. All hard drives can be detected by AVAGO BIO utility. Perform Disk management of OS to verify HDD information. All hard drives can be detected by OS Disk management. 300-16e with SATA 6G HDD Config SATA 6G configuration Test Procedure Criteria Perform AVAGO BIOS utility to verify HDD information. All hard drives can be detected by AVAGO BIO utility. Perform Disk management of OS to verify HDD information. All hard drives can be detected by AVAGO BIO utility. Perform Disk management of OS to verify HDD information. All hard drives can be detected by OS Disk management.

7 Summary		
Item	Descriptions	Result
	Redundant Power Module	Pass
	System Fan	Pass
	Expander	Pass
	Burn-in Test	Pass
	LED Function	Pass
	Mute Button	Pass
	Firmware Upgrade	Pass
	Temperature Sensor	Pass
	SES Lighting Signal	Pass
	Shake Test	Pass
	HDD Hot-swap	Pass
	External 8644 Hot-swap	Pass
Enclosure Function Test	AC/DC Power cycling	Pass
Test	SAS Zoning	Pass
	JBOD Cascade	Pass
	Manually PWM	Pass
	DD command stress JBOD	Pass
	diag_drive_led	Pass
	enclosure addr	Pass
	Sensor	Pass
	serial number and enclosure number	Pass
	EDFB ON/OFF	Pass
	MPIO	Pass
	AT Switch test : by power cord	Pass
	AT Switch test : by front power SW	Pass
	AVAGO 9380-4i4e with SAS 12G HDD Config	Pass
RAID Card Test	AVAGO 9380-4i4e with SAS 6G HDD Config	Pass
	AVAGO 9380-4i4e e with SATA 6G HDD Config	Pass
	AVAGO 9300-16e with SAS 12G HDD Config	Pass
HBA Card Test	AVAGO 9300-16e with SAS 6G HDD Config	Pass
	AVAGO 9300-16e with SATA 6G HDD Config	Pass
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