



January 2008

Forms for DVD Format Verification of DVD-RW Drive (for SL & DL)

Form 1L to 28L Version 1.71

Notice:

- *These Forms will be revised on occasion for improvement or Version-up of the related Test Specification.*
- *The latest Forms shall be used to fill up the necessary information for application to Verification Lab, according to the related Test Specification.*
- *You can fill up the shaded space in every Form.*
- *"Adobe® Acrobat®" will be necessary for making your own files.*

*Copyright: It is permitted to download this electronic file, to make a copy and to print out the content for the sole purpose of DVD Format Verification. You may not copy the file or printed version of the document, or any part of it, for any other purpose without prior written permission from **DVD Format/Logo Licensing Corporation.***

Exemption: None will be liable for any damages from use of this document.

Preliminary Information for DVD Format Verification

Application No. (Lab use)	:	
Application date (mm. dd, yyyy)	:	
Lab receipt date (mm. dd, yyyy)	:	
Lab name	:	

DVD-RW Drive described below is for DVD Format Verification of the First Production Model.

12 cm SL Drive

- ☐ 1x-speed DVD-RW Drive (Class 0)
☐ 2x/1x-speed DVD-RW Drive (Class 0&1)
☐ 4x/2x/1x-speed DVD-RW Drive (Class 0&1)
☐ 6x/2x/1x-speed DVD-RW Drive (Class 0&1)

12 cm DL Drive

- ☐ 2x-speed DVD-RW Drive for DL (Class 0)

8 cm SL Drive

- ☐ 1x-speed DVD-RW Drive (Class 0)
☐ 2x/1x-speed DVD-RW Drive (Ver.1.1)

Product name	Model number	Notes
Remarks:		

DVD-RW Drive described above will be applied for DVD Format Verification by the following applicant.

Name of applicant	
Title of applicant	
Company & Factory name	
Factory address	
Phone number	
Fax number	
E-mail	

Applicant's Signature:

--

Test Information of DVD Format Verification

DVD Format Verification Lab record (Verification Lab use only)

- Name of Verification Lab :
- Name of inspector :
- Application date :
- Date of test completed :
- Verification number :

Information of applicant

- Applicant's name :
- Company name :
- Company address :
- Phone number :
- Fax number :

DVD-RW Drive details

- Brand/ Trade name :
- Model number :
- Adaptable Maximum Class **SL** : ☐ Class 0 ☐ Class 1
DL: ☐ Class 0
- Maximum recording speed **SL** : ☐ 1x ☐ 2x ☐ 4x ☐ 6x
DL: ☐ 2x
- Supporting Disc **SL** : ☐ 12cm disc ☐ 8cm disc
DL: ☐ 12cm disc ☐ 8cm disc
- Declaration of recording speed for the test in section **8.2.1 or 9.2.1** (for SL Drive)
R=25mm : ☐ 6x ☐ 4x ☐ 2x
R=40mm : ☐ 6x ☐ 4x ☐ 2x
- Type of product : ☐ Drive Solely ☐ Drive with PC ☐ Others ()
- Supporting OS : ☐ Windows Vista ☐ Windows XP ☐ Windows 2000
☐ Windows Me ☐ MAC ☐ Unix
☐ Others ()
- Interface : ☐ SCSI-2 ☐ ATAPI ☐ Others ()
- Power Supply :
- Other DVD-RW drives that your company already had the approval of verification
: ☐ Class 0 DVD-RW Drive ☐ Class 0 DVD-RW Drive for DL
☐ Class 0&1 DVD-RW Drive

Check list of Forms for Submission

Forms	Title of Forms	Applicant	Lab
1L	Preliminary Information	<input type="checkbox"/>	<input type="checkbox"/>
2L	Test Information	<input type="checkbox"/>	<input type="checkbox"/>
12cm/1x-speed SL			
3L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
4L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
5L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
6L	Reading Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
7L	Enhanced Defect Reporting	<input type="checkbox"/>	<input type="checkbox"/>
8cm/1x-speed SL			
8L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
9L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
10L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
11L	Reading Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
12cm/2x-speed SL			
12L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
13L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
14L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
8cm/2x-speed SL			
15L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
16L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
17L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
12cm/4x-speed SL			
18L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
19L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
20L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
12cm/6x-speed SL			
21L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
22L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
23L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
12cm/2x-speed DL			
24L	Recording Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
25L	Linking Characteristics	<input type="checkbox"/>	<input type="checkbox"/>
26L	Lead-in and RMA	<input type="checkbox"/>	<input type="checkbox"/>
27L	Reading Characteristics	<input type="checkbox"/>	<input type="checkbox"/>

- Applicant checks the columns that the data Forms are required according to the nomination of "Class", "Max. recording speed" and "Supporting Disc (SL and/or DL, and 12cm or 8cm).
- Lab confirms the chart based on the nomination whether the applicant correctly selects the Forms.

Test results of Recording characteristics for 12cm/1x-speed SL

(Test Tools: RWBTD-011 and DVD-RW measuring system (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 40 mm				
		R = 55 mm				
	Modulated amplitude					
O	I14/I14H	R = 25 mm	0.60 min.			
		R = 40 mm				
		R = 55 mm				
O	I3/I14	R = 25 mm	0.15 min.			
		R = 40 mm				
		R = 55 mm				
	(I14Hmax. – I14Hmin.)/I14Hmax.					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS) *3	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within one disc (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2	Specification	Measurement		Judgment (Lab use)	
			Applicant	Lab		
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble signal					
O	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

Test result of 1x-speed Linking characteristic for 12cm SL

(Test Tools: RWBTD-011 and DVD-RW measuring system (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Note: This test is only for 12cm/1x-speed Drive. 12cm/2x/1x-speed Drive, 12cm/4x/2x/1x-speed Drive and 12cm/6x/2x/1x-speed Drive need not execute this test.

Test results of Information data in Lead-in and RMA for 12cm/1x-speed SL

(Test Tools: RWBTD-011 and DVD-RW measuring system (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
3.4.1.2.2 Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII) *2	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII) *2	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII) *2	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID *3 (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

4.3.2.2.1.1 Format1 RMD Field0 or 4.3.2.2.3.1 Format3 RMD Field0*4

Item *1		Applicant	Lab		Judgment
RMD Format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Copy of Pre-pit Information (Hex)	BP 22-32		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 33-36				
	BP 55-60				

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: 1.2.

*2: The test of these items can be substituted by checking the same items in RMD Field1 of Format1 or Format3.

*3: The test of this item can be substituted by checking the same item in RMD Field0 of Format1 or Format3.

*4: Select the Format1 or format3 according to the used recording mode.

Format1: Incremental recording mode and Disc at once recording mode.

Format3: Restricted Overwrite recording mode.

4.3.2.2.1.2 Format1 RMD Field1 or 4.3.2.2.3.2 Format3 RMD Field1 (check only #1 area)*4

Item *1		Applicant	Lab		Judgment
1 st field of Write Strategy code (Hex)	BP 64-67		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power (Hex)	BP 68-71		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Time Stamp (Hex)	BP 72-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address (Hex)	BP 80-83		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information (Hex)	BP 84-107		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of Write Strategy code (Hex)	BP 108-113		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*4: Select the Format1 or Format3 according to the used recording mode.

Format1: Incremental recording mode and Disc at once recording mode.

Format3: Restricted Overwrite recording mode.

Test result of Reading characteristics for 12cm SL

(Test Tool: RWSTD-011 or RWSTD-101)

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Test result of Enhanced Defect Reporting (EDR) for SL

(Test Tool: EDRTD-001 and ED RVF-001)

Items	Applicant		Lab		Comment		
EDR function Support	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>			
EDR result	OK <input type="checkbox"/>	NG <input type="checkbox"/>	/	OK <input type="checkbox"/>	NG <input type="checkbox"/>	/	

Test results of Recording characteristics for 8cm/1x-speed SL

(Test Tools: HLX-512 A1 or VRW-601S and DVD-RW measuring system (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 38 mm				
	Modulated amplitude					
O	I ₁₄ /I _{14H}	R = 25 mm	0.60 min.			
		R = 38 mm				
O	I ₃ /I ₁₄	R = 25 mm	0.15 min.			
		R = 38 mm				
	(I _{14Hmax.} – I _{14Hmin.})/I _{14Hmax.}					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 38 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS) *3	R = 25 mm	0.10 max.			
		R = 38 mm				
	Within one disc (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 38 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 38 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2	Specification	Measurement		Judgment (Lab use)	
			Applicant	Lab		
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
○	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 38 mm				
○	Asymmetry	R = 25 mm	0.2 max.			
		R = 38 mm				
○	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 38 mm				
	2.1.7.3 Wobble signal					
○	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 38 mm				
	2.1.7.4 Defects					
○	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 38 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

Test result of 1x-speed Linking characteristic for 8cm SL

(Test Tools: HLX-512 A1 or VRW-601S and DVD-RW measuring system (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Note: This test is only for 8cm/1x-speed Drive. 8cm/2x/1x-speed Drive need not execute this test.

Test results of Information data in Lead-in and RMA for 8cm/1x-speed SL

(Test Tools: HLX-512 A1 or VRW-601S and DVD-RW measuring system (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
3.4.1.2.2 Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII) *2	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII) *2	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII) *2	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID *3 (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

4.3.2.2.1.1 Format1 RMD Field0 or 4.3.2.2.3.1 Format3 RMD Field0*4

Item *1		Applicant	Lab		Judgment
RMD Format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Copy of Pre-pit Information (Hex)	BP 22-32		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 33-36				
	BP 55-60				

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: 1.2.

*2: The test of these items can be substituted by checking the same items in RMD Field1 of Format1 or Format3.

*3: The test of this item can be substituted by checking the same item in RMD Field0 of Format1 or Format3.

*4: Select the Format1 or format3 according to the used recording mode.

Format1: Incremental recording mode and Disc at once recording mode.

Format3: Restricted Overwrite recording mode.

4.3.2.2.1.2 Format1 RMD Field1 or 4.3.2.2.3.2 Format3 RMD Field1 (check only #1 area)*4

Item *1		Applicant	Lab		Judgment
1 st field of Write Strategy code (Hex)	BP 64-67		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power (Hex)	BP 68-71		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Time Stamp (Hex)	BP 72-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address (Hex)	BP 80-83		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information (Hex)	BP 84-107		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of Write Strategy code (Hex)	BP 108-113		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*4: Select the Format1 or Format3 according to the used recording mode.

Format1: Incremental recording mode and Disc at once recording mode.

Format3: Restricted Overwrite recording mode.

Test result of Reading characteristics for 8cm SL

(Test Tool: HLX-512 ARW)

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Test results of Recording characteristics for 12cm/2x-speed SL

(Test Tools: RWBTD-031 and DVD-RW measuring system (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 40 mm				
		R = 55 mm				
	Modulated amplitude					
O	I ₁₄ /I _{14H}	R = 25 mm	0.60 min.			
		R = 40 mm				
		R = 55 mm				
O	I ₃ /I ₁₄	R = 25 mm	0.15 min.			
		R = 40 mm				
		R = 55 mm				
	(I _{14Hmax.} − I _{14Hmin.})/I _{14Hmax.}					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS)*3	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within one disc (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	− 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2	Specification	Measurement		Judgment (Lab use)	
			Applicant	Lab		
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble signal					
O	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

Test result of 2x-speed Linking characteristic for 12cm SL

(Test Tools: RWBTD-031 and DVD-RW measuring system (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Note: This test is only for 12cm/2x/1x-speed Drive. 12cm/4x/2x/1x-speed Drive and 12cm/6x/2x/1x-speed Drive need not execute this test.

Test results of Information data in Lead-in and RMA for 12cm/2x-speed SL

(Test Tools: RWBTD-031 and DVD-RW measuring system (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII) *2	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII) *2	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII) *2	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID *3 (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

3.2.1 Format1 RMD Field0 or 3.2.4 Format3 RMD Field0*4 (refer to 2x Optional Specifications)

Item *5		Applicant	Lab		Judgment
RMD Format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Copy of Pre-pit Information (Hex)	BP 63-64		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 65-67		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 68		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 71-72		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 73-76		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*2: The test of these items can be substituted by checking the same items in RMD Field1 of Formt1 or Format3.

*3: The test of this item can be substituted by checking the same item in RMD Field0 of Formt1 or Format3.

*4: Select the Format1 or Format3 according to the used recording mode.

Format1: Incremental recording mode and Disc at once recording mode.

Format3: Restricted Overwrite recording mode.

*5: Refer to Optional Specifications 2x-speed DVD-RW Rev. 1.0.

3.2.2 Format1 RMD Field1 or 3.2.5 Format3 RMD Field1 (check only #1 area)

(refer to Optional Specifications)

Item *1		Applicant	Lab		Judgment
Time stamp (Hex)	BP 512-519		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
1 st field of 2x-speed Write Strategy code (Hex)	BP 520-523		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of 2x-speed Write Strategy code (Hex)	BP 524-529		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power for 2x-speed recording (Hex)	BP 536-539		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address for 2x-speed recording (Hex)	BP 540-543		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information for 2x-speed recording (Hex)	BP 544-567		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Strategy Type for 2x-speed recording (Hex)	BP 568		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power by the 8-bit coded power for 2x-speed	BP 569-570		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to Optional Specifications 2x-speed DVD-RW Rev. 1.0.

Test results of Recording characteristics for 8cm/2x-speed SL

(Test Tools: HLX-512 A2 or VRW-603S and DVD-RW measuring system (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 38 mm				
	Modulated amplitude					
O	I14/I14H	R = 25 mm	0.60 min.			
		R = 38 mm				
O	I3/I14	R = 25 mm	0.15 min.			
		R = 38 mm				
	(I14Hmax. – I14Hmin.)/I14Hmax.					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 38 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS) *3	R = 25 mm	0.10 max.			
		R = 38 mm				
	Within one disc (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 38 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 38 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
○	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 38 mm				
○	Asymmetry	R = 25 mm	0.2 max.			
		R = 38 mm				
○	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 38 mm				
	2.1.7.3 Wobble signal					
○	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 38 mm				
	2.1.7.4 Defects					
○	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 38 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

Test result of 2x-speed Linking characteristic for 8cm SL

(Test Tools: HLX-512 A2 or VRW-603S and DVD-RW measuring system (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Test results of Information data in Lead-in and RMA for 8cm/2x-speed SL

(Test Tools: HLX-512 A2 or VRW-603S and DVD-RW measuring system (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII) *2	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII) *2	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII) *2	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID *3 (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

3.2.1 Format1 RMD Field0 or 3.2.4 Format3 RMD Field0*4 (refer to Optional Specifications)

Item *5		Applicant	Lab		Judgment
RMD Format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Copy of Pre-pit Information (Hex)	BP 63-64		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 65-67		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 68		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 71-72		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 73-76		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*2: The test of these items can be substituted by checking the same items in RMD Field1 of Formt1 or Format3.

*3: The test of this item can be substituted by checking the same item in RMD Field0 of Formt1 or Format3.

*4: Select the Format1 or Format3 according to the used recording mode.

Format1: Incremental recording mode and Disc at once recording mode.

Format3: Restricted Overwrite recording mode.

*5: Refer to Optional Specifications 2x-speed DVD-RW Rev. 1.0.

3.2.2 Format1 RMD Field1 or 3.2.5 Format3 RMD Field1 (check only #1 area)
(refer to Optional Specifications)

Item *1		Applicant	Lab		Judgment
Time stamp (Hex)	BP 512-519		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
1 st field of 2x-speed Write Strategy code (Hex)	BP 520-523		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of 2x-speed Write Strategy code (Hex)	BP 524-529		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power for 2x-speed recording (Hex)	BP 536-539		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address for 2x-speed recording (Hex)	BP 540-543		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information for 2x-speed recording (Hex)	BP 544-567		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Strategy Type for 2x-speed recording (Hex)	BP 568		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power by the 8-bit coded power for 2x-speed	BP 569-570		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to Optional Specifications 2x-speed DVD-RW Rev. 1.0.

Test results of Recording characteristics for 12cm/4x-speed SL

(Test Tools: RWBTD-031 and DVD-RW measuring system (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 40 mm				
		R = 55 mm				
Modulated amplitude						
O	I ₁₄ /I _{14H}	R = 25 mm	0.60 min.			
		R = 40 mm				
		R = 55 mm				
O	I ₃ /I ₁₄	R = 25 mm	0.15 min.			
		R = 40 mm				
		R = 55 mm				
(I _{14H} max. – I _{14H} min.)/I _{14H} max.						
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS)*3	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within one disc (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble signal					
O	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

Test result of 4x-speed Linking characteristic for 12cm SL

(Test Tools: RWBTD-031 and DVD-RW measuring system (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Note: This test shall be done in the user area where the Drive can keep performing 4x-speed recording.

Test results of the Information data in Lead-in and RMA for 12cm/4x-speed SL

(Test Tools: RWBTD-031 and DVD-RW measuring system (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII) *2	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII) *2	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII) *2	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID *3 (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*2: The test of these items can be substituted by checking the same items in RMD Field1 of Formt1 or Format3.

*3: The test of this item can be substituted by checking the same item in RMD Field0 of Formt1 or Format3.

4.2.2 Format1 RMD Field 1 (check only #1 area) (refer to 4x-speed Optional Specifications)

Item *1		Applicant	Lab		Judgment
Time stamp (Hex)	BP 576-583		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
1 st field of 4x-speed Write Strategy code (Hex)	BP 584-587		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of 4x-speed Write Strategy code (Hex)	BP 588-593		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power for 4x-speed recording (Hex)	BP 600-603		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address for 4x-speed recording (Hex)	BP 604-607		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information for 4x-speed recording (Hex)	BP 608-631		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Strategy Type for 4x-speed recording (Hex)	BP 632		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power by the 8-bit coded power for 4x-speed recording	BP 633-634		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to Optional Specifications 4x-speed DVD-RW Rev. 2.0.

Test results of Recording characteristics for 12cm/6x-speed SL

(Test Tools: RWBTD-041 and DVD-RW measuring system (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 8.0 %			
		R = 40 mm				
		R = 55 mm				
Modulated amplitude						
O	I ₁₄ /I _{14H}	R = 25 mm	0.60 min.			
		R = 40 mm				
		R = 55 mm				
O	I ₃ /I ₁₄	R = 25 mm	0.15 min.			
		R = 40 mm				
		R = 55 mm				
(I _{14H} max. – I _{14H} min.)/I _{14H} max.						
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within one disc (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS)*3	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within one disc (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble signal					
O	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

Test result of 6x-speed Linking characteristic for 12cm SL

(Test Tools: RWBTD-041 and DVD-RW measuring system (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Note: This test shall be done in the user area where the Drive can keep performing 6x-speed recording.

Test results of the Information data in Lead-in and RMA for 12cm/6x-speed SL

(Test Tools: RWBTD-041 and DVD-RW measuring system (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII) *2	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII) *2	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII) *2	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID *3 (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

*1: Refer to DVD Specifications for Re-recordable Disc Part 1: Ver. 1.2.

*2: The test of these items can be substituted by checking the same items in RMD Field1 of Formt1 or Format3.

*3: The test of this item can be substituted by checking the same item in RMD Field0 of Formt1 or Format3.

4.2.2 Format1 RMD Field 1 (check only #1 area) (refer to 6x-speed Optional Specifications)

Item *1		Applicant	Lab		Judgment
Time stamp (Hex)	BP 1024-1031		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
1 st field of 6x-speed Write Strategy code (Hex)	BP 1032-1035		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2 nd field of 6x-speed Write Strategy code (Hex)	BP 1036-1041		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power for 6x-speed recording (Hex)	BP 1048-1051		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address for 6x-speed recording (Hex)	BP 1052-1055		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information for 6x-speed recording (Hex)	BP 1056-1079		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Strategy Type for 6x-speed recording (Hex)	BP 1080		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power by the 8-bit coded power for 6x-speed recording	BP 1081-1082		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to Optional Specifications 6x-speed DVD-RW Rev. 3.0.

Test results of Recording characteristics for 12cm/2x-speed DL

(Test Tools: VRW-805-DL and DVD-RW measuring system for DL (Playback))

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
Layer 0						
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 9 %			
		R = 40 mm				
		R = 55 mm				
	Modulated amplitude					
O	I14/I14H	R = 25 mm	0.50 min.			
		R = 40 mm				
		R = 55 mm				
O	I3/I14	R = 25 mm	0.20 min.			
		R = 40 mm				
		R = 55 mm				
	(I14Hmax. – I14Hmin.)/I14Hmax.					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within each layer (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS) *3	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within each layer (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: Ver. 2.0.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2	Specification	Measurement		Judgment (Lab use)	
			Applicant	Lab		
Layer 0						
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble signal					
O	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: Ver. 2.0.

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
Layer 1						
2.1.7 Operational signals						
	2.1.7.1 High Frequency (HF) signal					
O	Jitter	R = 25 mm	< 9 %			
		R = 40 mm				
		R = 55 mm				
	Modulated amplitude					
O	I14/I14H	R = 25 mm	0.50 min.			
		R = 40 mm				
		R = 55 mm				
O	I3/I14	R = 25 mm	0.20 min.			
		R = 40 mm				
		R = 55 mm				
	(I14Hmax. – I14Hmin.)/I14Hmax.					
O	Within one revolution (PUH with PBS)	R = 25 mm	0.15 max.			
		R = 40 mm				
		R = 55 mm				
O	Within each layer (PUH with PBS)		0.33 max.			
	Within one revolution (PUH without PBS) *3	R = 25 mm	0.10 max.			
		R = 40 mm				
		R = 55 mm				
	Within each layer (PUH without PBS) *3		0.20 max.			
O	Signal asymmetry	R = 25 mm	– 0.05 to 0.15			
		R = 40 mm				
		R = 55 mm				
O	Track crossing signal	R = 25 mm	0.10 min.			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: Ver. 2.0.

*3: Class-A Lab will check these values when required.

Class-B Lab. *1	Items *2		Specification	Measurement		Judgment (Lab use)
				Applicant	Lab	
Layer 1						
	2.1.7.2 Servo signal					
	Differential phase tracking error signal					
O	Amplitude ($\overline{\Delta t}/T$ at 0.1μm radial offset)	R = 25 mm	0.5 to 1.1			
		R = 40 mm				
		R = 55 mm				
O	Asymmetry	R = 25 mm	0.2 max.			
		R = 40 mm				
		R = 55 mm				
O	Tangential push-pull signal	R = 25 mm	0.9 max.			
		R = 40 mm				
		R = 55 mm				
	2.1.7.3 Wobble signal					
O	CNR of the Wobble signal (RBW=1kHz)	R = 25 mm	> 31dB			
		R = 40 mm				
		R = 55 mm				
	2.1.7.4 Defects					
O	PI errors in any consecutive 8 ECC blocks	R = 25 mm	≤ 280			
		R = 40 mm				
		R = 55 mm				

*1: The measurement items at Class-B Lab are marked with O.

*2: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: Ver. 2.0.

Test result of 2x-speed Linking characteristic for 12cm DL

(Test Tools: VRW-805-DL and DVD-RW measuring system for DL (Playback))

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	

Note: This test is only for 12cm/2x-speed DL Drive. Other types of products need not execute this test.

Test results of Information data in Lead-in and RMA for 12cm/2x-speed DL

(Test Tools: VRW-805-DL and DVD-RW measuring system for DL (Playback))

3.4.1.2 RW-Physical format information zone

Item *1	Applicant	Lab		Judgment
3.4.1.2.2 Physical format information (BP 0-3) (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.1.1 Table 4.3.2.1.1-1 Unique ID Field

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII)	BP 0-15		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 16-31				
Serial Number (ASCII)	BP 40-55		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII)	BP 64-79		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID (Refer to Table 4.3.2.1.1-2)	BP 88-91 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 92-105 (ASCII)				

*1: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: 2.0.

4.3.2.2.1.1 Format2 RMD Field0

Item *1		Applicant	Lab		Judgment
RMD Format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID	BP 4-7 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 8-21 (ASCII)				
Copy of Pre-pit Information (Hex)	BP 22-85		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

4.3.2.2.1.2 Format2 RMD Field1

Item *1		Applicant	Lab		Judgment
Update Counter	BP 0-3		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Format3 RMD Set pointer	BP 4-7		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
RSDS #n	BP 16-19		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: 2.0.

4.3.2.2.2.1 Format3 RMD Field0

Item *1		Applicant	Lab		Judgment
RMD Format (Hex)	BP 0-1		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Disc status (Hex)	BP 2		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Unique Disc ID	BP 4-7 (Hex)		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
	BP 8-21 (ASCII)				
Copy of Pre-pit Information (Hex)	BP 22-85		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Start sector number of the Middle area (Hex)	BP 86-89		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Pre-recorded/Embossed information code (Hex)	BP 90		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
End address of pre-recorded/embossed Lead-in area (Hex)	BP 92-95		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
End address of pre-recorded/embossed Middle area on Layer 0 (Hex)	BP 96-99		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Start address of pre-recorded/embossed Middle area on Layer 1 (Hex)	BP 100-103		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Start address of pre-recorded/embossed Lead-out area (Hex)	BP 104-107		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: 2.0.

4.3.2.2.2 Format3 RMD Field1 (check only #1 area)

Item *1		Applicant	Lab		Judgment
Drive manufacturer ID (Hex or ASCII)	BP 0-31		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Serial Number (ASCII)	BP 32-47		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Model Number (ASCII)	BP 48-63		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2x-speed Write Strategy code for Layer 0 (Hex)	BP 64-71		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Recording power (Hex)	BP 80-83		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Time Stamp (Hex)	BP 84-91		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Power calibration address (Hex)	BP 92-95		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Running OPC information (Hex)	BP 96-107		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2x-speed Write Strategy code for Layer 1 with 2T-multi-pulse (Hex)	BP 108-117		<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2x-speed Write Strategy code for Layer 1 (Hex)	BP 118-125		<input type="checkbox"/> OK	<input type="checkbox"/> NG	

*1: Refer to DVD Specifications for Re-recordable Disc for Dual Layer Part 1: 2.0.

Test result of Reading characteristics for 12cm DL

(Test Tool: VRW-806S-DL)

Items	OK	NG	Comment
Test result of Applicant	<input type="checkbox"/>	<input type="checkbox"/>	
Test result of Verification Lab	<input type="checkbox"/>	<input type="checkbox"/>	



Confirmation of DVD Format Verification

Note: (1) The purpose of DVD Format Verification is to promote and enhance compatibility of DVD Product for DVD Industry based upon the minimum common specification requirements.

(2) The "Confirmation of DVD Format Verification", however, shall not be considered to guarantee the quality of product and the compatibility with a specific DVD disc or player/recorder.

(3) Information in this report shall be treated as confidential under the Non Disclosure Agreement executed between the applicant and DVD Format Verification Laboratory dated (mm. dd, yyyy)