



December 2005

Forms for DVD Format Verification of DVD-RAM Drive (4.7/1.46 Gbytes)

Form 10 to 610 Version 2.4

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

Supporting disc : ☐ 12 cm type ☐ 8 cm typeAcceptable Maximum Class : ☐ Class 0 ☐ Class 1Maximum recording speed : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

Product name	Model number	Note (Power supply etc)
Remarks:		

DVD-RAM 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 :
- Previous confirmation : ☐ Already passed Class0 DVD-RAM products.
()
☐ Nothing

DVD-RAM Drive details

- Brand / Trade name :
- Model number :
- Type of product : ☐ Drive Solely ☐ Drive with PC ☐ Others ()
- Supporting Disc(Write) : ☐ DVD-RAM (12cm) ☐ DVD-RAM (8cm) ☐ DVD-R ☐ DVD-RW ☐ DVD-ROM
- Adaptable Maximum Class: ☐ Class 0 ☐ Class 1
- Maximum recording speed: ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

In case of supporting 3x-speed to 12x-speed DVD-RAM disc, verify and declare the rotation speed in Zone 0, 17 and 34 for 12cm disc or Zone 0, 6 and 13 for 8cm disc. (e.g. 12cm disc: Nominal rotation speed in Zone 0 is 81.15Hz for 3x-speed, 135.25Hz for 5x-speed and 162.30Hz for 6x-speed. Nominal rotation speed in Zone 17 is 128.81Hz for 8x-speed. Nominal rotation speed in Zone 34 is 137.55Hz for 12x-speed.)

Rotation speed (Hz) of a drive which supports 12cm disc

	Zone 0	Zone 17	Zone 34
2x/3x -speed disc	:		
2x/3x/5x -speed disc	:		
6x-speed Class 1 disc	:		
6x/8x -speed Class 1 disc	:		
6x/8x/12x -speed Class 1 disc	:		

Rotation speed (Hz) of a drive which supports 8cm disc

	Zone 0	Zone 6	Zone 13
2x/3x -speed disc	:		
2x/3x/5x -speed disc	:		
6x-speed Class 1 disc	:		
6x/8x -speed Class 1 disc	:		

- Supporting Disc(Read) : ☐ DVD-RAM (12cm) ☐ DVD-RAM (8cm) ☐ DVD-R ☐ DVD-RW ☐ DVD-ROM
- Supporting OS : ☐ Windows 98 ☐ Windows 2000 ☐ Windows XP ☐ MAC
☐ Unix ☐ PC98 ☐ Others ()
- Interface : ☐ USB2 ☐ ATAPI ☐ Others ()
- Power Supply :
- Annex DD compliant information : ☐ OK

Verify and declare that your drive complies with procedure of Annex DD of DVD Specifications for Rewritable Disc Part 1 Physical Specifications Version 2.2 with marking 'OK'.

Check list of Forms for Submission

Forms	Title of Forms	Applicant	Lab
10	Preliminary Information	<input type="checkbox"/>	<input type="checkbox"/>
20	Test Information	<input type="checkbox"/>	<input type="checkbox"/>
70 to 120	General functions for 12 cm disc	<input type="checkbox"/>	<input type="checkbox"/>
170 to 220	General functions for 8 cm disc	<input type="checkbox"/>	<input type="checkbox"/>
30 to 60	12 cm/2x-speed recording	<input type="checkbox"/>	<input type="checkbox"/>
130 to 160	8 cm/2x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
230 to 260	12 cm/3x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
270 to 300	8 cm/3x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
310 to 340	12 cm/5x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
350 to 380	8 cm/5x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
390 to 420	12 cm/6x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
430 to 460	8 cm/6x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
470 to 500	12 cm/8x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
510 to 540	8 cm/8x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
550 to 580	12 cm/12x-speed writing	<input type="checkbox"/>	<input type="checkbox"/>
590	12 cm/Read power erasing	<input type="checkbox"/>	<input type="checkbox"/>
600	8 cm/ Read power erasing	<input type="checkbox"/>	<input type="checkbox"/>

- Applicant checks the columns that the data Forms are required according to the nomination of “Class”, and “Max. recording speed”.
- Lab confirms the chart based on the nomination of “Class” and “Max. recording speed” whether the applicant correctly selects the Forms.

Test result of Write characteristics (1) (12cm/2x-speed)

(Test Disc: RAM-PT200-A)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (12cm/2x-speed)

(Test Disc: RAM-PT200-A)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (12cm/2x-speed)

(Test Disc: RAM-PT-200-A)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
3.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 16	G				
			L				
		Zone 17	G				
			L				
		Zone 33	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (12cm/2x-speed)

(Test Disc: RAM-PT200-A)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Read characteristics (12cm)

(Test Disc: RAM-PT200-B)

Item	Applicant		Lab		Judgment (Lab use)
Read characteristics	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of BCA readability (12cm)

(Test Disc: RAM-PT200-B)

Item	Applicant		Lab		Judgment (Lab use)
BCA readability test	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of DMA readability (12cm)

(Test Disc: RAM-PT200-1 to 8)

Item	Applicant		Lab		Judgment (Lab use)
Type A-1: RAM-PT200-1 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-2: RAM-PT200-2 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-3: RAM-PT200-3 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-4: RAM-PT200-4 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-5: RAM-PT200-5 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-6: RAM-PT200-6 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-7: RAM-PT200-7 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-8: RAM-PT200-8 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of DMA read procedure (12cm)

(Test Disc: RAM-HM200-B1 and B2)

Item	Applicant		Lab		Judgment (Lab use)
Type B-1: RAM-HM200-B1	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type B-2: RAM-HM200-B2	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of DMA contents (12cm)

(Test tools: RAM-HM200-C, DVD-SDV100)

Item	Applicant		Lab		Judgment (Lab use)
DMA contents with disc formatting					
1) Initialization with certification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2) Initialization without certification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
3) Re-initialization with certification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
4) Re-initialization with SDL list conversion	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
5) Initialization with clearing G2 list and SDL	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
DMA contents without disc formatting	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of File System verification (12cm)

(Test tools: RAM-PT200-A, and DVD-FV01RAM or TFSV01)

Item	Applicant		Lab		Judgment (Lab use)
File System verification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (8cm/2x-speed)

(Test Disc: RAM-HM210)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (8cm/2x-speed)

(Test Disc: RAM-HM210)

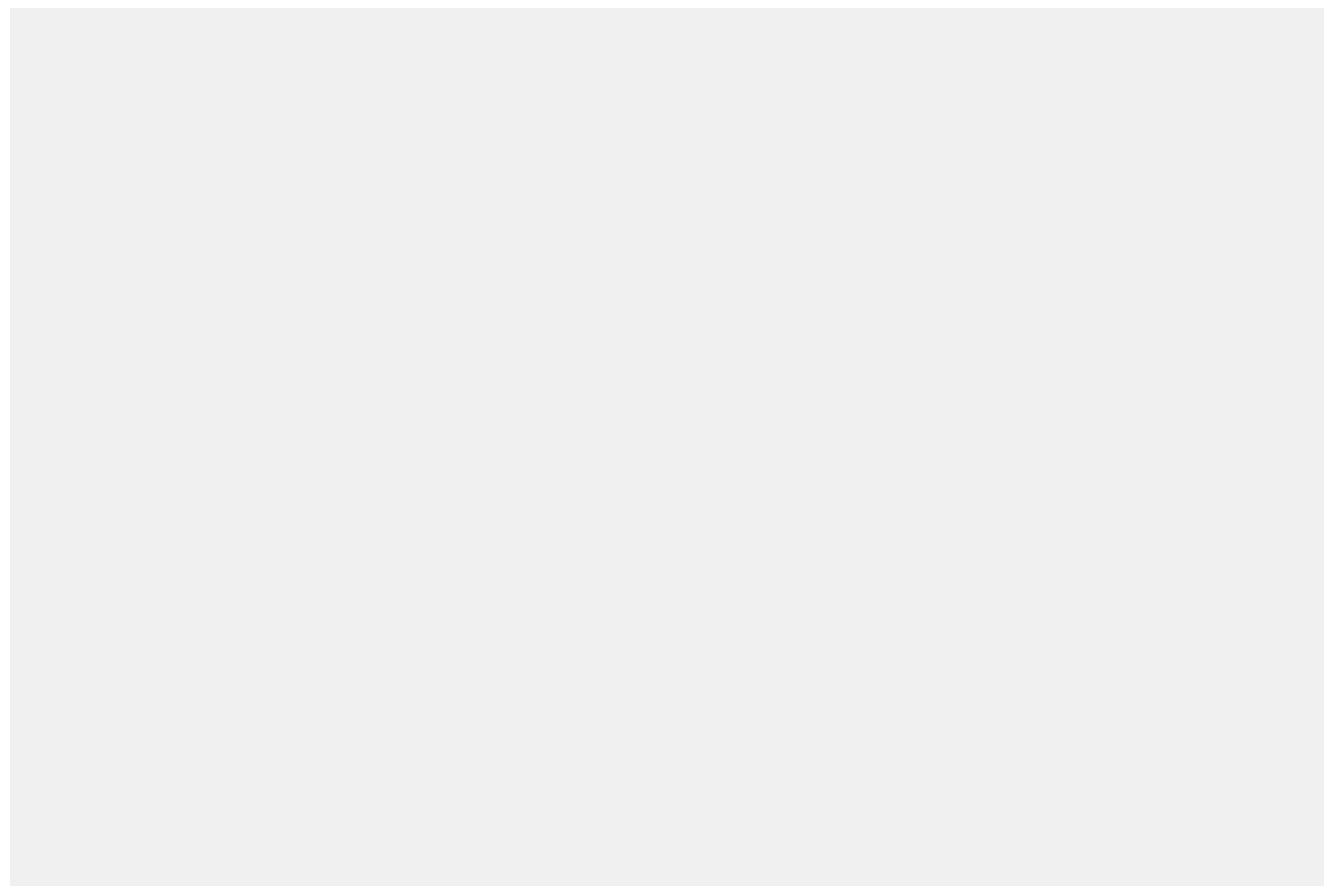
Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (8cm/2x-speed)

(Test Disc: RAM-HM210)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
4.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 6	G				
			L				
		Zone 7	G				
			L				
		Zone 12	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.



Test result of Overwrite characteristics (2) ("FFh" read) (8cm/2x-speed)

(Test Disc: RAM-HM210)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Read characteristics (8cm)

(Test Disc: RAM-HM210-E)

Item	Applicant		Lab		Judgment (Lab use)
Read characteristics	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of BCA readability (8cm)

(Test Disc: RAM-HM210-E)

Item	Applicant		Lab		Judgment (Lab use)
BCA readability test	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of DMA readability (8cm)

(Test Disc: RAM-HM210-A1 to A8)

Item	Applicant		Lab		Judgment (Lab use)
Type A-1: RAM-HM210-A1 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-2: RAM-HM210-A2 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-3: RAM-HM210-A3 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-4: RAM-HM210-A4 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-5: RAM-HM210-A5 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-6: RAM-HM210-A6 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-7: RAM-HM210-A7 (Readable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type A-8: RAM-HM210-A8 (Unreadable)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of DMA procedure (8cm)

(Test Disc: RAM-HM210-B1 and B2)

Item	Applicant		Lab		Judgment (Lab use)
Type B-1: RAM HM210-B1	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
Type B-2: RAM HM210-B2	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of DMA contents (8cm)

(Test tools: RAM-HM210-C, DVD-SDV100)

Item	Applicant		Lab		Judgment (Lab use)
DMA contents with disc formatting					
1) Initialization with certification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
2) Initialization without certification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
3) Re-initialization with certification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
4) Re-initialization with SDL list conversion	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
5) Initialization with clearing G2 list and SDL	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	
DMA contents without disc formatting	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of File System verification (8cm)

(Test tools: RAM-HM210, and DVD-FV01RAM or TFSV01)

Item	Applicant		Lab		Judgment (Lab use)
File System verification	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (12cm/3x-speed)

(Test Disc: RAM-PT300-A)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
			G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (12cm/3x-speed)

(Test Disc: RAM-PT300-A)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (12cm/3x-speed)

(Test Disc: RAM-PT300-A)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
3.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 16	G				
			L				
		Zone 17	G				
			L				
		Zone 33	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (12cm/3x-speed)

(Test Disc: RAM-PT300-A)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (8cm/3x-speed)

(Test Disc: RAM-HM310)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (8cm/3x-speed)

(Test Disc: RAM-HM310)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (8cm/3x-speed)

(Test Disc: RAM-HM310)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
4.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 6	G				
			L				
		Zone 7	G				
			L				
		Zone 12	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (8cm/3x-speed)

(Test Disc: RAM-HM310)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (12cm/5x-speed)

(Test Disc: RAM-PT500-A or RAM-HM500)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
			G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (12cm/5x-speed)

(Test Disc: RAM-PT500-A or RAM-HM500)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (12cm/5x-speed)

(Test Disc: RAM-PT-500-A or RAM-HM500)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
3.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 16	G				
			L				
		Zone 17	G				
			L				
		Zone 33	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (12cm/5x-speed)

(Test Disc: RAM-PT500-A or RAM-HM500)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (8cm/5x-speed)

(Test Disc: RAM-HM510)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
2.8.2.b	I ₁₄ /I _{14H}	Zone 0	G	0.40 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	I ₃ /I ₁₄	Zone 0	G	0.15 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	(I _{14max} -I _{14min})/I _{14max} (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (8cm/5x-speed)

(Test Disc: RAM-HM510)

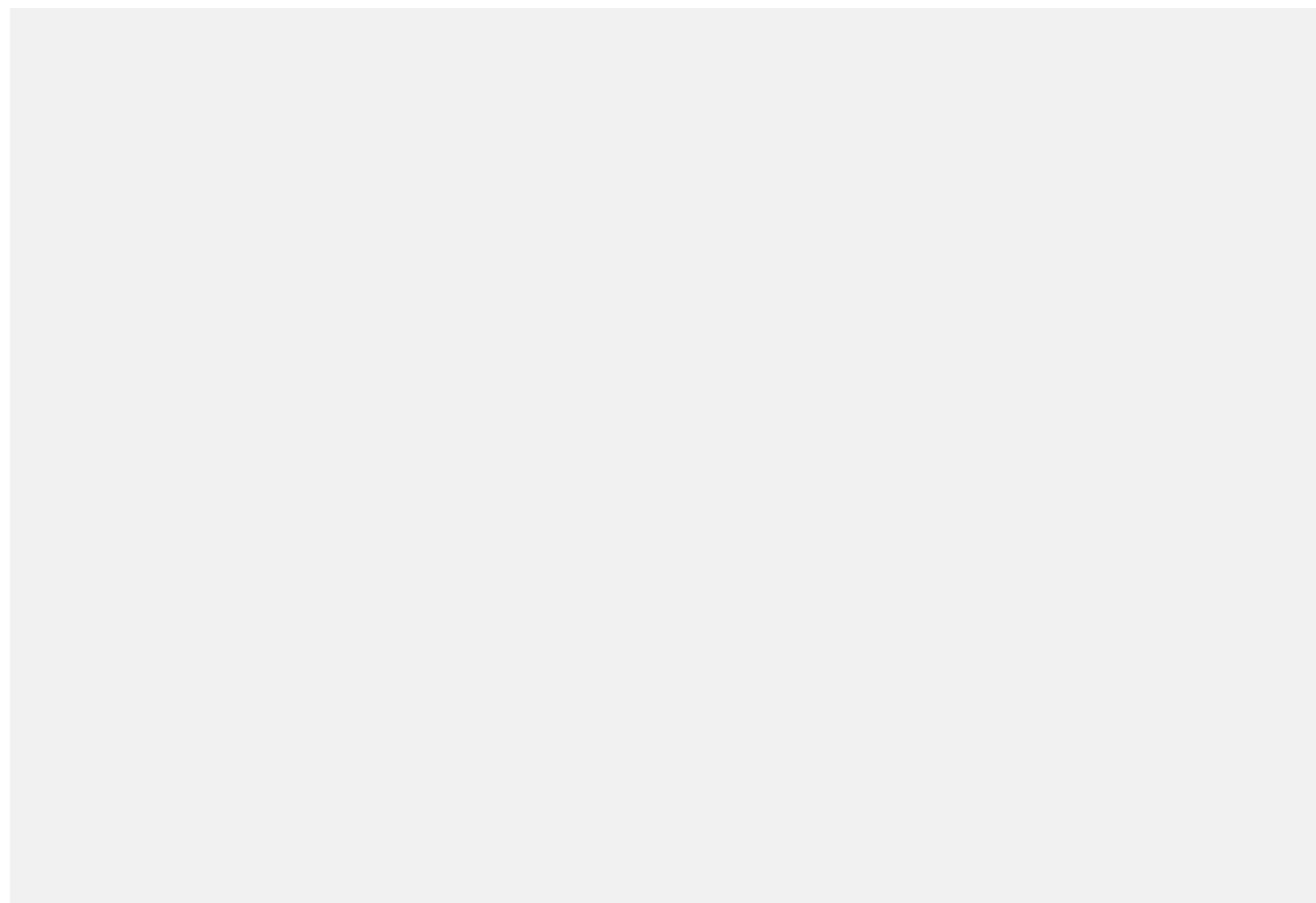
Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (8cm/5x-speed)

(Test Disc: RAM-HM510)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
4.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 6	G				
			L				
		Zone 7	G				
			L				
		Zone 12	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.



Test result of Overwrite characteristics (2) ("FFh" read) (8cm/5x-speed)

(Test Disc: RAM-HM510)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (12cm/6x-speed)

(Test Disc: RAM-HM600)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 17	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (12cm/6x-speed)

(Test Disc: RAM-HM600)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (12cm/6x-speed)

(Test Disc: RAM-HM600)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
3.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 16	G				
			L				
		Zone 17	G				
			L				
		Zone 33	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (12cm/6x-speed)

(Test Disc: RAM-HM600)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (8cm/6x-speed)

(Test Disc: RAM-HM610)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	Zone 0	G	Less than 9.0 %**			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
2.8.2.b	I14/I14H	Zone 0	G	0.40 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	I3/I14	Zone 0	G	0.15 min.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	(I14max-I14min)/I14max (One sector)	Zone 0	G	0.10 max.			
			L				
		Zone 6	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (8cm/6x-speed)

(Test Disc: RAM-HM610)

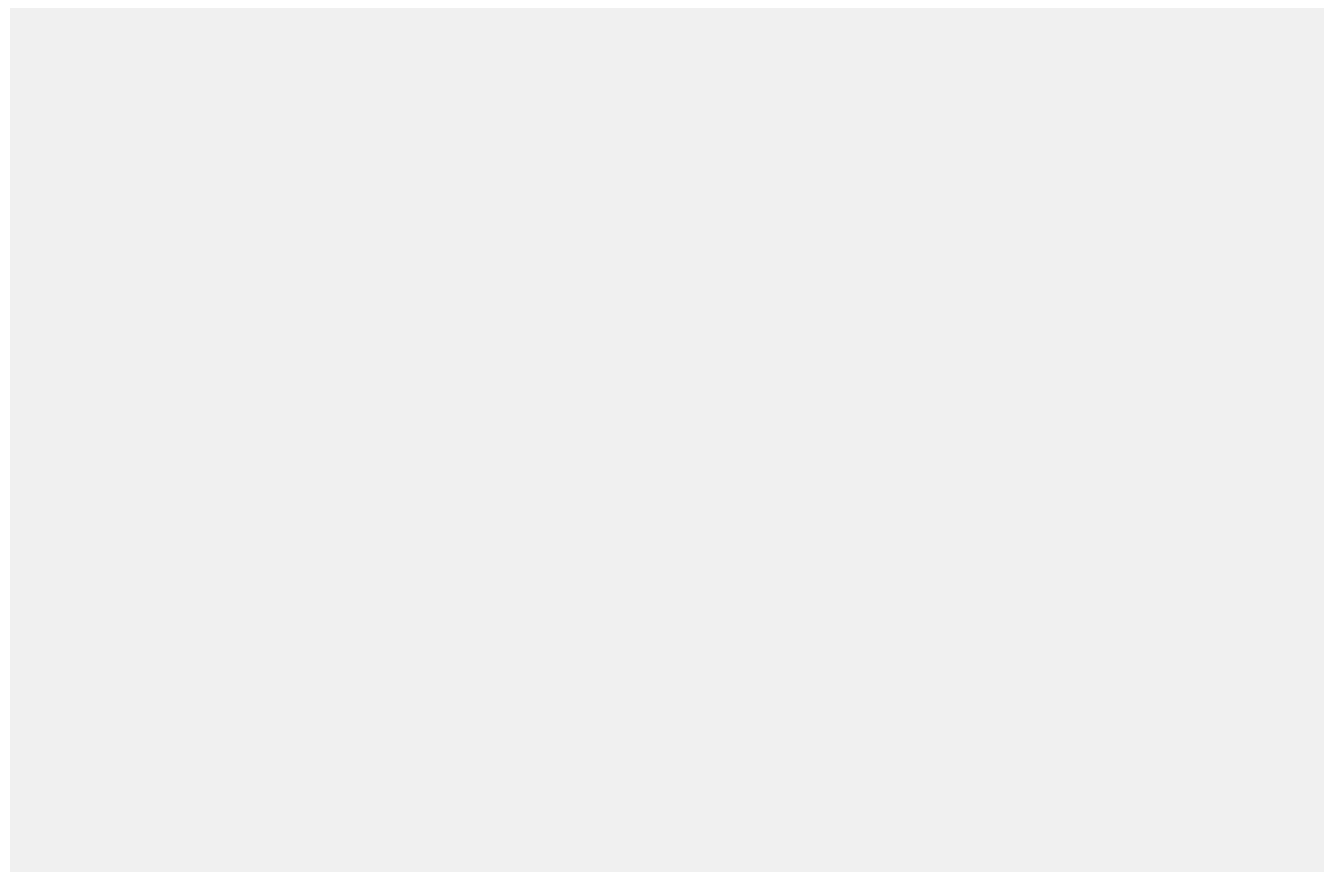
Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (8cm/6x-speed)

(Test Disc: RAM-HM610)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
4.2.2	Jitter	Zone 0	G	Recommended Specification Less than 12.0 %			
			L				
		Zone 1	G				
			L				
		Zone 6	G				
			L				
		Zone 7	G				
			L				
		Zone 12	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.



Test result of Overwrite characteristics (2) ("FFh" read) (8cm/6x-speed)

(Test Disc: RAM-HM610)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (12cm/8x-speed)

(Test Disc: RAM-HM800)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	-	G	Less than 9.0 %**	-	-	-
			L		-	-	-
		Zone 17	G				
			L				
		Zone 34	G				
			L				
2.8.2.b	I14/I14H	-	G	0.40 min.	-	-	-
			L		-	-	-
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	I3/I14	-	G	0.15 min.	-	-	-
			L		-	-	-
		Zone 17	G				
			L				
		Zone 34	G				
			L				
	(I14max-I14min)/I14max (One sector)	-	G	0.10 max.	-	-	-
			L		-	-	-
		Zone 17	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (12cm/8x-speed)

(Test Disc: RAM-HM800)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (12cm/8x-speed)

(Test Disc: RAM-HM800)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
3.2.2	Jitter	-	G	Recommended Specification Less than 12.0 %	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 16	G				
			L				
		Zone 17	G				
			L				
		Zone 33	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (12cm/8x-speed)

(Test Disc: RAM-HM800)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (8cm/8x-speed)

(Test Disc: RAM-HM810)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	-	G	Less than 9.0 %**	-	-	-
			L		-	-	-
		Zone 6	G				
			L				
		Zone 13	G				
			L				
2.8.2.b	I14/I14H	-	G	0.40 min.	-	-	-
			L		-	-	-
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	I3/I14	-	G	0.15 min.	-	-	-
			L		-	-	-
		Zone 6	G				
			L				
		Zone 13	G				
			L				
	(I14max-I14min)/I14max (One sector)	-	G	0.10 max.	-	-	-
			L		-	-	-
		Zone 6	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (8cm/8x-speed)

(Test Disc: RAM-HM810)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (8cm/8x-speed)

(Test Disc: RAM-HM810)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
4.2.2	Jitter	-	G	Recommended Specification Less than 12.0 %	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 6	G				
			L				
		Zone 7	G				
			L				
		Zone 12	G				
			L				
		Zone 13	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (8cm/8x-speed)

(Test Disc: RAM-HM810)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Write characteristics (1) (12cm/12x-speed)

(Test Disc: RAM-PT1200-A or RAM-HM1200)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
2.8.2.a	Jitter	-	G	Less than 9.0 %**	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 34	G				
			L				
2.8.2.b	I14/I14H	-	G	0.40 min.	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 34	G				
			L				
	I3/I14	-	G	0.15 min.	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 34	G				
			L				
	(I14max-I14min) /I14max (One sector)	-	G	0.10 max.	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

**: If the value of disc jitter is more than 8.0%, less than 10.0% is acceptable.

Test result of Write characteristics (2) ("FFh" read) (12cm/12x-speed)

(Test Disc: RAM-PT1200-A or RAM-HM1200)

Item	Applicant		Lab		Judgment (Lab use)
Write characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Overwrite characteristics (1) (12cm/12x-speed)

(Test Disc: RAM-PT1200-A or RAM-HM1200)

Para-graph*	Items	Measuring points		Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
3.2.2	Jitter	-	G	Recommended Specification Less than 12.0 %	-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		-	G		-	-	-
			L		-	-	-
		Zone 33	G				
			L				
		Zone 34	G				
			L				

*: Refer to DVD Specifications for Rewritable Disc Part 1: Version 2.2.

Test result of Overwrite characteristics (2) ("FFh" read) (12cm/12x-speed)

(Test Disc: RAM-PT1200-A or RAM-HM1200)

Item	Applicant		Lab		Judgment (Lab use)
Overwrite characteristics ("FFh" read)	<input type="checkbox"/> OK	<input type="checkbox"/> NG	<input type="checkbox"/> OK	<input type="checkbox"/> NG	

Test result of Read power erasing (12cm)

(Test Disc: RAM-HM600-F)

Items	Measuring points			Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
Jitter after one million times reading	Zone 0	LBA F10h to F1Fh	G	Recommended Specification: Less than 12.0 %			
		LBA E60h to E6Fh	L				
	Zone 34	LBA 218690h to 21869Fh	G				
		LBA 218390h to 21839Fh	L				

Test result of Read power erasing (8cm)

(Test Disc: RAM-HM610-F)

Items	Measuring points			Specification	Measurement Value		Judgment (Lab use)
					Applicant	Lab	
Jitter after one million times reading	Zone 0	LBA 2D10h to 2D1Fh	G	Recommended Specification: Less than 12.0 %			
		LBA 2C60h to 2C6Fh	L				
	Zone 13	LBA 98C80h to 98C8Fh	G				
		LBA 98A90h to 98A9Fh	L				



The Class Mark should be displayed with the Logo according to DVD Logo Manual.

Confirmation of DVD Format Verification

The following product is confirmed that it is on the strength of DVD Specifications for Rewritable Disc, Part 1 Ver. 2.2 and Part 2 Ver. 2.0, and Optional Specifications: ☐ 3x-speed DVD-RAM Rev. 1.0, ☐ 5x-speed DVD-RAM Rev. 2.0, ☐ 6x-speed DVD-RAM Rev. 3.0, ☐ 8x-speed DVD-RAM Rev. 4.0, ☐ 12x-speed DVD-RAM Rev. 5.0 by DVD Format Verification Laboratory of the Company: _____

1. Product name (DVD-RAM Drive) : _____

2. Model number : _____

3. Adaptable Maximum Class ☐ Class 0 ☐ Class 1

4. Application number : _____

5. Date of application (mm. dd, yyyy) : _____

6. Applicant: Name : _____

Company name : _____

Address : _____

Tel : _____ / Fax: _____

Date of issue (mm. dd, yyyy) : _____

Confirmed by: Signature : _____

Name : _____

Lab name : _____

Address : _____

Tel : _____ / Fax: _____

Attachment :

1) Test result **Form 2O** and the **necessary Forms** described in Self Test of Annex C.

2) Others: _____

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) _____.