



Regulatory and certification documents package

Regulatory Model Number: [STA022](#)

Series Name(s): [Firecuda 120 and Ironwolf 125 SSD](#)

Internal Name: [Spyro](#)

<u>Date</u>	<u>Comments:</u>
April 13, 2020	Package generated.

Contents:

- Statement of model Similarity
- Australia/New Zealand - RCM mark SDoC (Supplier Declaration of Conformity)
- Australia/New Zealand - CoT (Certificate of Test)
- Canada ICES - CoT (Certificate of Test)
- CB Certificate(s)
- CE DoC (Declaration of Conformity)
- CE CoT (Certificate of Test)
- FCC SDoC
- FCC CoT (Certificate of Test)
- Korea RRL – Certificate
- Korea - CoT (Certificate of Test)
- Morocco_DoC (Declaration of Conformity)
- Russia_EAC - Certificate
- UL/cUL safety
- TUV safety
- Taiwan BSMI certificate
- Taiwan CoT (Certificate of Test)
- VCCI CoT (Certificate of Test)
- VCCI Certificate(Certificate of Acceptance)



Regulatory Model Number (RMN) STA022

Statement of Similarity

Tested model
STA022

-----Models added by Similarity-----

Firecuda 120: ZA500GM10001
ZA1000GM10001
ZA2000GM10001
ZA4000GM10001

Ironwolf 125: ZA250NM10002
ZA500NM10002
ZA1000NM10002
ZA2000NM10002
ZA4000NM10002

The regulatory model number STA022 is a Solid State Drive (SSD). This SSD is built in a 2.5 inch x 7mm form factor. It is designed for internal integration into products with a SATA interface. The SSD is available in capacities ranging from 250 GB to 4000 GB and with a variety of endurance levels and other features that may be offered. User capacity, endurance features and data security options are determined by the firmware. All models, regardless of these various features and configurations, are physically and electrically identical.

A handwritten signature in blue ink that reads 'Gary A. Stigsell'.

Gary A. Stigsell
Sr. Project/Product Manager
Product Safety/EMC Compliance



Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd
Responsible Supplier Number: E806

Seagate Technology Australia Pty. Limited
Level 7, 91 Phillip St
PARRAMATTA NSW 2150
AUSTRALIA

Declare under our sole responsibility that the following product(s):

Seagate 2.5" SATA Solid State Drive

Model: STA022

to which this declaration relates is in conformity with the following standard(s):

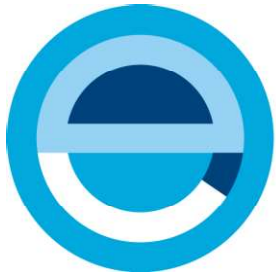
Title	Test Regulation
Australian/New Zealand Standard	AS/NZS CISPR 32: 2015 Class B

(Name of the Authorized Person) **Sam Zavaglia**

(Title of the Authorized Person) **Senior Field Applications Engineer**

(Date of Issue) **7th April 2020**

(Signature) 

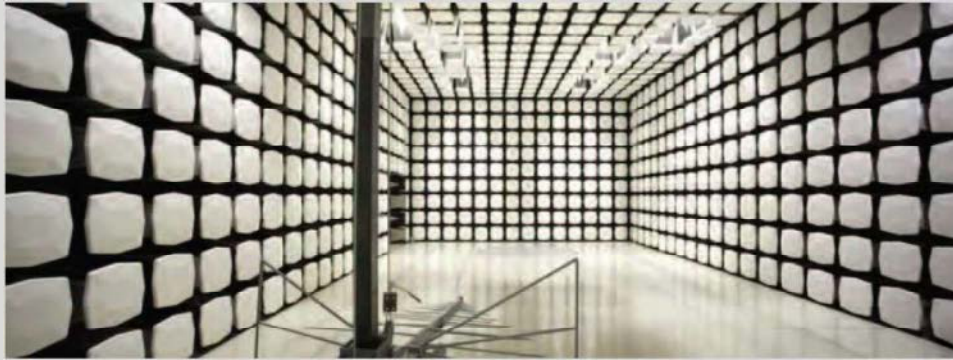


element

Seagate Technology LLC

STA022

Report: SEAG0262, Issue Date: March 27, 2020



NVLAP LAB CODE: 200881-0



This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.

CERTIFICATE OF TEST

Last Date of Test: March 18, 2020
Seagate Technology LLC
EUT: STA022

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2020 Class B	ANSI C63.4:2014
FCC 15.109:2020 Class B	
FCC 15.109(g):2020 Class B	
ICES-003:2016 updated April 2017 Class B	
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

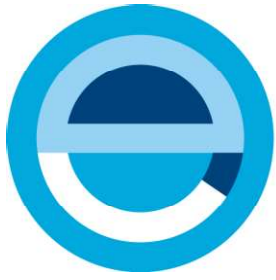
None

Approved By:



Eric Brandon, Department Manager

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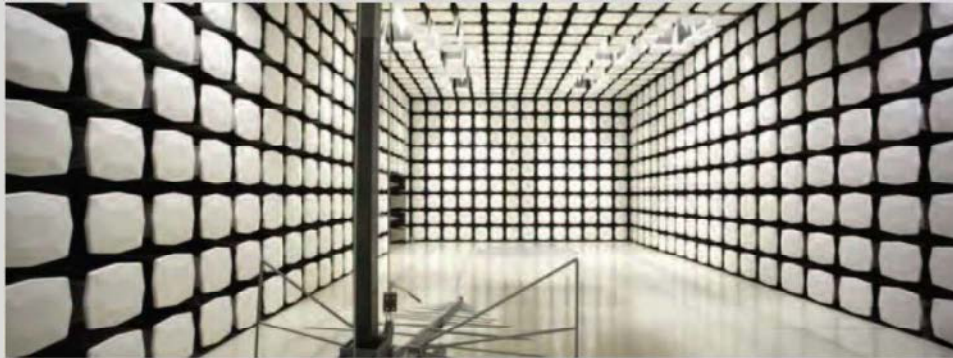


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STA022

Report: SEAG0262, Issue Date: March 27, 2020



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Seagate Technology LLC
EUT: STA022

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Standards

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EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2020 Class B	ANSI C63.4:2014
FCC 15.109:2020 Class B	
FCC 15.109(g):2020 Class B	
ICES-003:2016 updated April 2017 Class B	
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

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Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:



Eric Brandon, Department Manager

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IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Information technology Solid State Drive
Name and address of the applicant	Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379-1863 USA
Name and address of the manufacturer	Seagate Technology LLC 1280 Disc Drive, Shakopee, MN 55379-1863, USA
Name and address of the factory	Netronix, Inc. No. 945, Boai Street, 30265 Jubei City, Hsinchu, TAIWAN CAL-COMP Electronics (Thailand) Co. Ltd. 60 Moo, 8 Sethakij Road, Klong Maduea, Kratoom Bean, Samuthsakorn 74110, THAILAND
Ratings and principal characteristics	Input Voltage: +5 VDC Input Current: 0.40 A Protection Class: III Degree of Protection: 2 Case Temperature: 60 °C Maximum Altitude: 3048 m
Trade mark (if any)	Seagate
Customer's Testing Facility (CTF) Stage used	CTF STAGE 2
Model/type Ref.	STA022
A sample of the product was tested and found to be in conformity with as shown in the Test Report Ref. No. which forms part of this certificate	IEC 62368-1:2014 092-72157811A-000

This CB Test Certificate is issued by the National Certification Body

CB 041780 0716 Rev. 00
Date, 2020-05-14

(Adrian Rabago Valenzuela)



IEC

IECEE
CB
SCHEME

Ref. Certif. No.

DE 3 - ITAV411

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

Conditions of Acceptability:

1. Solid state drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when drive is installed in the end use product.
3. Proper air flow should be considered in the end use product to limit maximum case temperature to 60°C. Testing was conducted with a 40 CFM fan.

This CB Test Certificate is issued by the National Certification Body

CB 041780 0716 Rev. 00

Date, 2020-05-14

(Adrian Rabago Valenzuela)

Page 2 of 2

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany



Product Service



Ref. Certif. No.

DE 3 - 503525

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Information technology Solid State Drive
Name and address of the applicant	Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379-1863 USA
Name and address of the manufacturer	Seagate Technology LLC 1280 Disc Drive, Shakopee, MN 55379-1863, USA
Name and address of the factory	Netronix, Inc. No. 945, Boai Street, 30265 Jubei City, Hsinchu, TAIWAN CAL-COMP Electronics (Thailand) Co. Ltd. 60 Moo, 8 Sethakij Road, Klong Maduea, Kratoom Bean, Samuthsakorn 74110, THAILAND
Ratings and principal characteristics	Input Voltage: +5 VDC Input Current: 0.40 A Protection Class: III Degree of Protection: 2 Case Temperature: 60 °C Maximum Altitude: 3048 m
Trade mark (if any)	Seagate
Customer's Testing Facility (CTF) Stage used	CTF STAGE 2
Model/type Ref.	Regulatory Model: STA022
A sample of the product was tested and found to be in conformity with	IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013
as shown in the Test Report Ref. No. which forms part of this certificate	092-72157811B-000

This CB Test Certificate is issued by the National Certification Body

CB 041780 0715 Rev. 00
Date, 2020-05-19

(Adrian Rabago Valenzuela)



Product Service

IEC

IECEE
CB
SCHEME

Ref. Certif. No.

DE 3 - 503525

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

Conditions of Acceptability:

1. Solid state drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when drive is installed in the end use product.
3. Proper air flow should be considered in the end use product to limit maximum case temperature to 60°C. Testing was conducted with a 40 CFM fan.

This CB Test Certificate is issued by the National Certification Body

CB 041780 0715 Rev. 00

Date, 2020-05-19



(Adrian Rabago Valenzuela)



Product Service

Page 2 of 2

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EU Declaration of Conformity

Product Safety and EMC Compliance

The product(s) meets the requirements of The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012 Electromagnetic compatibility of multimedia equipment — Emission requirements – class B.

EN55024:2010
EN55035:2017 Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement

EN61000-3-2:2014 Limits for Harmonic Current Emissions (Equipment Input Current ≤ 16 Amps Per Phase)

EN61000-3-3:2013 Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment with Rated Current ≤ 16 Amps Per Phase

The product(s) meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standards:

EN 62368-1:2014 Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, Modified)

EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/A2:2013 Information Technology Equipment - Safety- (Second Edition) Part 1: General Requirements

Product Environmental Compliance, EU/China RoHS Declaration of Conformity

Conformity with Harmonized Standards/Technical Specifications:

1. Directive 2011/65/EU RoHS “Recast” (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740
EN 50581:2012
2. Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
3. Management Methods for the Restriction of the Use of Hazardous Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1, 2016 (China RoHS 2)
4. Joint JEDEC/ECA Standard, Definition of “Low-Halogen” for Electronic Products, JS709B

Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanized steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6c	Copper alloy up to 0.4% lead by weight
7a	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

Due Diligence

For parts and materials in Seagate products procured from external suppliers, we rely on the representations of our suppliers regarding the presence of RoHS 2 substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of any substances regulated by RoHS 2 in such parts or materials.

Seagate also has internal systems in place to ensure ongoing compliance and all laws and regulations. These systems include standard operating procedures that ensure that product safety, EMC and environmental compliance requirements are followed, and an internal auditing process to ensure compliance with all standard operating procedures.

Year to Begin Affixing Mark: 2020

Manufacturer's Name:	Seagate Technology, LLC
Manufacturer's Address: (And Importer)	47488 Kato Road Fremont, California 94538 U.S.A.
European Contact:	Director of Operations Seagate Technology (Netherlands) B.V. Tupolevlaan 105, 1119 PA Schiphol – Rijk, The Netherlands

Type of Equipment:	Solid State Drive
Product Name::	FireCuda 120 and IronWolf 125

Regulatory Model Number(s): **STA022**

Seagate Models:

FireCuda 120

IronWolf 125

ZA500GM10001
 ZA1000GM10001
 ZA2000GM10001
 ZA4000GM10001

ZA250NM10002
 ZA500NM10002
 ZA1000NM10002
 ZA2000NM10002
 ZA4000NM10002

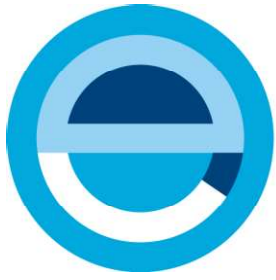
This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology LLC.

Date: April 6, 2020 | 14:46:15 PDT

DocuSigned by:

Matt Brown
(Signature)

Matthew C. Brown
Vice President
Operations and Technology

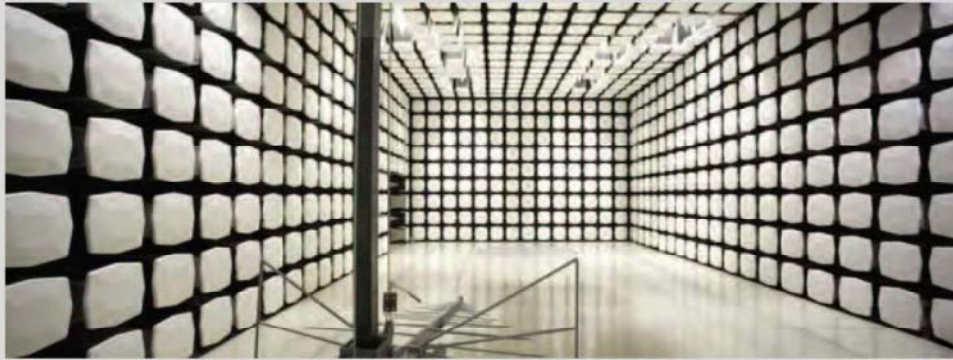


element

Seagate Technology LLC

STA022

Report: SEAG0262, Issue Date: March 27, 2020



NVLAP LAB CODE: 200881-0



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CERTIFICATE OF TEST

Last Date of Test: March 18, 2020
Seagate Technology LLC
EUT: STA022

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2020 Class B	ANSI C63.4:2014
FCC 15.109:2020 Class B	
FCC 15.109(g):2020 Class B	
ICES-003:2016 updated April 2017 Class B	
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:



Eric Brandon, Department Manager

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CERTIFICATE OF TEST



Last Date of Test: March 18, 2020
Seagate Technology LLC
EUT: STA022

Immunity

Standards

Specification	Method
EN 55024:2010 EN 55035:2017	IEC 61000-4-2:2008
	IEC 61000-4-3:2010
	IEC 61000-4-4:2012
	IEC 61000-4-5:2014 +A1:2017
	IEC 61000-4-6:2013
	IEC 61000-4-8:2009
	IEC 61000-4-11:2004 + A1:2017

Results

Test Description	Performance Criteria			Comments
	Applied	Standard Specified	Observed Criteria	
Electrostatic Discharge (ESD)	Yes	B	B	
Radiated Immunity	Yes	A	A	
Electrical Fast Transients and Bursts (EFT)	Yes	B	B	
Surge	Yes	B	A	
Conducted Immunity	Yes	A	A	
Magnetic Field Immunity	Yes	A	A	
Voltage Interruptions	Yes	C	C	
Voltage Dips	Yes	B/C	A/B	

Details on the application of the performance criteria, as well as any manufacturer provided performance criteria or acceptable degradation of performance, are all contained within the report.

Deviations From Test Standards

None

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Declaration of Conformity

Standards to which conformity is declared:

FCC Part 15B

47 CFR FCC Part 15B: 2019 (Class B)
Information Technology Equipment (ITE) - Limits
and methods of measurement

Manufacturer Name: Seagate Technology LLC
Manufacturer Address: 47488 Kato Road
(And Importer) Fremont, California 94538

Type of Equipment : Solid State Drive

Product Model Number : STA022

Seagate Technology LLC hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

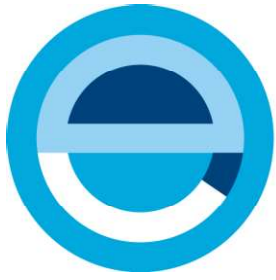
Location: Minnesota, USA

(Signature)

A handwritten signature in blue ink, appearing to read 'Gary A. Stigsell'.

Certificate Date: 30 March, 2020

Gary A. Stigsell
(Full Printed Name)
Sr Project/Program Manager
(position)
952-402-2544
(Phone)



element

Seagate Technology LLC

STA022

Report: SEAG0262, Issue Date: March 27, 2020



NVLAP LAB CODE: 200881-0



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Emissions

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방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

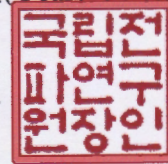
상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) Equipment Name	Solid State Drive
기본모델명 Basic Model Number	STA022
파생모델명 Series Model Number	ZA1000GM10001, ZA2000NM10002, ZA500NM10002, ZA4000NM10002, ZA1000NM10002, ZA250NM10002, ZA2000GM10001, ZA500GM10001, ZA4000GM10001
등록번호 Registration No.	R-R-STX-STA022
제조사/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 태국, 대만
등록연월일 Date of Registration	2020-04-01
기타 Others	

위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다.

It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2020년(Year) 04월(Month) 01일(Day)

국립전파연구원장



Director General of National Radio Research Agency



※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.



Report No. SEAG0262.1

NRRA Notice 2017-71 (2017.12.28) Test Method for Electromagnetic Compatibility

Applicant Information	Applicant:	Seagate Technology LLC	
	Address:	1280 Disc Drive Shakopee, MN 55379	
	Contact Name:	Curt Propson	
Product Information	Equipment Name:	Solid State Drive	
	Model Name:	STA022	
	KCC ID Number	R-R-STX-STA022	
	Manufacturer:	Seagate Technology LLC	
	Manufacturer Address:	1280 Disc Drive Shakopee, MN 55379	
	Origin Country:	Taiwan, Thailand	
Date(s) of testing		2020-03-16, 2020-03-17, 2020-03-18	
Equipment Class		<input type="checkbox"/> Class A	<input checked="" type="checkbox"/> Class B
Test Results		<input checked="" type="checkbox"/> PASS	<input type="checkbox"/> FAIL
Lab Performing the Tests	Element Materials Technology Brooklyn Park Lab 9349 W Broadway Ave. Brooklyn Park, MN 55445 612-638-5136 888-364-2378		

	
EMC Test Technician: Chris Patterson	Department Manager: Eric Brandon



CERTIFICATE OF TEST

Last Date of Test: March 18, 2020
Seagate Technology LLC
EUT: STA022

Emissions

Standards

Specification	Method
KN 32 Class B	KN 32

Technical Requirements for Electromagnetic Compatibility: NRRRA Notice 2017-19 (2017.12.28)
 Test Methods for Electromagnetic Compatibility: NRRRA Notice 2017-71 (2017.12.28)
 Notice regarding Conformity Evaluation of Broadcasting and Communication Equipment: NRRRA Notice 2017-14 (2017.12.05)

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Eric Brandon, Department Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.

CERTIFICATE OF TEST

Last Date of Test: March 18, 2020
Seagate Technology LLC
EUT: STA022

Immunity

Standards

Specification	Method
KN 35	KN 61000-4-2
	KN 61000-4-3
	KN 61000-4-4
	KN 61000-4-5
	KN 61000-4-6
	KN 61000-4-8
	KN 61000-4-11

Technical Requirements for Electromagnetic Compatibility: NRRA Notice 2017-19 (2017.12.28)

Test Methods for Electromagnetic Compatibility: NRRA Notice 2017-71 (2017.12.28)

Notice regarding Conformity Evaluation of Broadcasting and Communication Equipment: NRRA Notice 2017-14 (2017.12.05)

Results

Test Description	Performance Criteria			Comments
	Applied	Standard Specified	Observed Criteria	
Electrostatic Discharge (ESD)	Yes	B	B	
Radiated Immunity	Yes	A	A	
Electrical Fast Transients and Bursts (EFT)	Yes	B	B	
Surge	Yes	B	A	
Conducted Immunity	Yes	A	A	
Magnetic Field Immunity	Yes	A	A	
Voltage Interruptions	Yes	C	C	
Voltage Dips	Yes	B/C	A/A	

Details on the application of the performance criteria, as well as any manufacturer provided performance criteria or acceptable degradation of performance, are all contained within the report.

Deviations From Test Standards

None

Approved By:



Eric Brandon, Department Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.



Morocco Declaration of Conformity

Nom et adresse du producteur:

Seagate Technology, LLC
47488 Kato Road
Fremont, CA 94538
United States

Cette déclaration de conformité est établie sous la responsabilité exclusive de Seagate Technology LLC

Product/device (product, lot, model or series)

Objet de la declaration..... **Solid State Drive**
Modèle réglementaire..... **STA022(FireCuda 120 and IronWolf 125)**
Type de réglementation **LVD/EMC**
EMC classe **B**
Commerce / Nom du fabricant **Seagate Technology, LLC**

La présente déclaration de conformité est établie sous la seule responsabilité du producteur

L'objet de la déclaration décrit ci-dessus est conforme à (aux) l'arrêté (s).

- *Arrêté du ministre de l'industrie, du commerce, de l'investissement et de l'économie numérique n° 2574-14 du 29 ramadan 1436 (16 juillet 2015) relatif à la compatibilité électromagnétique des équipements*
- *Arrêté du ministre de l'industrie, du commerce, de l'investissement et de l'économie numérique n° 2573-14 du 29 ramadan 1436(16 juillet 2015) relatif au matériel électrique destiné à être employé dans certaines limites de tension*

Références des normes pertinentes appliquées ou des autres spécifications techniques par rapport auxquelles la conformité est déclarée:

SAFETY: NM EN 60950-1 2014

EMC: NM EN 55022 2015
NM EN 55024 2015
NM EN 61000-3-2 2015
NM EN 61000-3-3 2015

Seagate Technology, LLC Fremont, CA USA
Signé par et au nom de
November 1, 1979
date et lieu d'établissement

DocuSigned by:
Matt Brown
Signé pour at au nom de Seagate Technology
Matthew Brown
Nom complet Imprimé
Vice President/ Operations and Technology
Position / Titre



Morocco Declaration of Conformity

Name and Address of Producer:

Seagate Technology, LLC
47488 Kato Road
Fremont, CA 94538
United States

This Declaration of Conformity is established under the exclusive responsibility of Seagate Technology LLC

Product/device (product, lot, model or series)	
Subject of the declaration	Solid State Drive
Regulatory model	STA022 (FireCuda 120 and IronWolf 125)
Type of Regulation	LVD/EMC
EMC class	B
Tradename of manufacturer	Seagate Technology, LLC

This declaration of conformity is drawn up under the sole responsibility of the producer

The object of the declaration described above is in conformity with the order (s)

- *Order of the Minister of Industry, Trade, Investment and Digital Economy No. 2574-14 of 29 Ramadan 1436 (16 July 2015) on electromagnetic compatibility of equipment*
- *Order of the Minister of Industry, Trade, Investment and Digital Economy No. 2573-14 of 29 Ramadan 1436 (16 July 2015) on electrical equipment intended for use within certain voltage limits*

References of relevant standards applied or other technical specifications with respect to which conformity is declared:

SAFETY: NM EN 60950-1 2014

EMC:

- NM EN 55022 2015
- NM EN 55024 2015
- NM EN 61000-3-2 2015
- NM EN 61000-3-3 2015

Seagate Technology, LLC Fremont, CA USA
Signed by and on behalf of

Signed on French version
Signed for and on behalf of Seagate Technology

November 1, 1979
Date and place of establishment

Matthew Brown
Full name printed

Vice President/ Operation and Technology
Position/Title



ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ



Заявитель ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "Р-ГРУПП" по договору уполномоченного изготовителем лица № б/н от 11.05.2020, ОГРН: 1157746642580, Сведения о государственной регистрации: Зарегистрировано Межрайонной инспекцией Федеральной налоговой службы № 46 по городу Москве от 16 июля 2015 года

Адрес места нахождения: 123112, РОССИЯ, город Москва, Пресненская набережная, дом 10, офис 537; Адрес места осуществления деятельности: 123112, РОССИЯ, город Москва, Пресненская набережная, дом 10, офис 425. Телефон: +79261705302, E-mail: info@rgroupus.com

в лице Генерального директора Беловой Натальи Александровны

заявляет, что Твердотельный накопитель торговой марки SEAGATE, модели STA022

изготовитель: «Seagate Technology LLC», адрес: Соединенные Штаты, 47488 Kato Road, Fremont, CA 94538(завод-изготовитель: 1.«Netronix Inc.», адрес: Тайвань (Китай), No. 945 Boai Street, Jubei City, Hsin-Chu, 302; 2. «CAL-COMP Electronics (Thailand) Public Co. Ltd.», адрес: Таиланд, 60 Moo, 8 Sethakij Road, Klong Maduea, Kratoom Bean, Samutsakorn 74110)

Код ТН ВЭД 8471 70 980 0

Директива 2014/30/EU ЕВРОПЕЙСКОГО ПАРЛАМЕНТА И СОВЕТА от 26 февраля 2014 г. «О гармонизации законодательств Государств-членов по электромагнитной совместимости»; Директива 2011/65/EU ЕВРОПЕЙСКОГО ПАРЛАМЕНТА И СОВЕТА от 08 июня 2011 г. «Об ограничении использования определенных опасных веществ в электрическом и электронном оборудовании». Серийный выпуск.

соответствует требованиям

ТР ТС 020/2011 «Электромагнитная совместимость технических средств»; ТР ТС 037/2016 «Об ограничении применения опасных веществ в изделиях электроники и радиоэлектроники»

Декларация о соответствии принята на основании

Протоколы испытаний № SEAG0262 от 27.03.2020, выдан NVLAP LAB Testing, № SG2003247 от 31.03.2020, выдан ALS Technichem (S) Pte Ltd; сертификат соответствия системы менеджмента качества ISO 9001:2015 № UCS-Q-08-051 от 26.03.2020, выдан Universal Certification Service Co. Ltd.; ISO 9001:2015 №9190.CAL2 от 24.11.2017, выдан CISQ; технический файл, содержащий доказательства соответствия продукции требованиям технического регламента; договор уполномоченного изготовителем лица № б/н от 11.05.2020; техническое досье, состоящее из документов, содержащих доказательства соответствия продукции требованиям регламента в соответствии с ГОСТ EN 50581-2016 «Техническая документация для оценки электрических и электронных изделий относительно ограничения использования опасных веществ;

Схема декларирования – 1д

Дополнительная информация

Условия хранения: температура от -40°C до 85 °C; относительная влажность: от 5% до 93%;

Условия эксплуатации: температура от 0 °C до 70 °C; относительная влажность: от 5 % до 90%;

Срок службы: 5 лет;

Обозначение и наименование стандартов (см. Приложение №1 лист 1).

Декларация о соответствии действительна с даты регистрации по 31.05.2025 включительно



Белова Наталья Александровна

(инициалы и фамилия руководителя организации-заявителя или физического лица, зарегистрированного в качестве индивидуального предпринимателя)

Сведения о регистрации декларации о соответствии:

Регистрационный номер декларации о соответствии: ЕАЭС N RU Д-US.PA01.B.45585/20

Дата регистрации декларации о соответствии: 01.06.2020

ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

Приложение №1 лист 1



К декларации о соответствии ЕАЭС N RU Д-US.РА01.В.45585/20

Сведения о национальных стандартах (сводах правил), применяемых на добровольной основе для соблюдения требований технических регламентов

Обозначение национального стандарта или свода правил	Наименование национального стандарта или свода правил	Подтверждение требованиям национального стандарта или свода правил
ГОСТ 30804.3.2-2013 (IEC 61000-3-2:2009)	Совместимость технических средств электромагнитная. Эмиссия гармонических составляющих тока техническими средствами с потребляемым током не более 16 А (в одной фазе). Нормы и методы испытаний	разделы 5 и 7
ГОСТ 30804.3.3-2013 (IEC 61000-3-3:2008)	Совместимость технических средств электромагнитная. Ограничение изменений напряжения, колебаний напряжения и фликера в низковольтных системах электроснабжения общего назначения. Технические средства с потребляемым током не более 16 А (в одной фазе), подключаемые к электрической сети при несоблюдении определенных условий подключения. Нормы и методы испытаний	раздел 5
ГОСТ 30805.22-2013 (CISPR 22:2006)	Совместимость технических средств электромагнитная. Оборудование информационных технологий. Радиопомехи промышленные. Нормы и методы измерений	разделы 4 - 6
ГОСТ EN50581-2016	Техническая документация для оценки электрических и электронных изделий относительно ограничения использования опасных веществ	



(подпись)

М.П.

Белова Наталья Александровна

(Ф.И.О. заявителя)

CERTIFICATE OF COMPLIANCE

Certificate Number E145123
Report Reference E145123- E145123-A6009-UL
Issue Date 2020-APRIL-08

Issued to: SEAGATE TECHNOLOGY L L C
1280 DISC DR
SHAKOPEE MN 55379-1863

**This certificate confirms that
representative samples of**

COMPONENT - AUDIO/VIDEO, INFORMATION AND
COMMUNICATION TECHNOLOGY EQUIPMENT
Solid State Drive; STA022

Have been investigated by UL in accordance with the
component requirements in the Standard(s) indicated on
this Certificate. UL Recognized components are incomplete
in certain constructional features or restricted in
performance capabilities and are intended for installation in
complete equipment submitted for investigation to UL LLC.


Standard(s) for Safety: UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07
(Information Technology Equipment - Safety - Part 1:
General Requirements)

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number E145123
Report Reference E145123-A6010-UL
Issue Date 2020-APRIL-08

Issued to: SEAGATE TECHNOLOGY L L C
1280 DISC DR
SHAKOPEE MN 55379-1863

This certificate confirms that representative samples of COMPONENT - AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT
Solid State Drive; STA022

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 62368-1 and CAN/CSA C22.2 No. 62368-1-14 (Audio/video, information and communication technology equipment Part 1: Safety requirements)

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



TÜV SÜD
ZERTIFIKAT ◆ CERTIFICATE ◆ 認證書 ◆ CERTIFICADO ◆ CERTIFICAT



Product Service

CERTIFICATE

No. B 041780 0719 Rev. 00

Holder of Certificate: **Seagate Technology LLC**
1280 Disc Drive
Shakopee, MN 55379-1863
USA

Certification Mark:



Product: **Disk drives**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 092-72123961-300

Valid until: 2020-12-20

Date, 2020-05-14 (Adrian Rabago Valenzuela)



Product Service

CERTIFICATE

No. B 041780 0719 Rev. 00

Model(s): Regulatory Model STA002, Regulatory Model STA018, Regulatory Model STA019, Regulatory Model STA020, Regulatory Model STA021, Regulatory Model STA022, Regulatory Model STA023

Parameters:

Electrical Ratings:	+5.0 VDC, 1.0 A (STA002) +5.0 VDC, 0.20 A (STA018) +3.3 VDC, 1.20 A (STA019) +3.3 VDC, 1.55 A (STA020) +5.0 VDC, 0.30 A (STA021) +5.0 VDC, 0.40 A (STA022) +5.0 VDC, 0.75 A (STA023)
Protection Class:	III
Degree of Protection:	IPX0
Pollution Degree:	2
Maximum altitude:	3048 m
Case Temperature:	60 °C

Model Differences:

Regulatory Model Number STA002:

*1TB, SATA interface, 1024 MB cache
 512GB, SATA interface, 512 MB cache
 256GB, SATA interface, 256 MB cache
 128GB, SATA interface, 256 MB cache (possible future configuration)

Regulatory Model Number STA018

960GB, SATA interface, 2.5"

Regulatory Model Number STA019

* 1000 GigaByte, NVMe Interface, PCIe Gen 3x4, 512E format
 500 GigaByte, NVMe Interface, PCIe Gen 3x4, 512E format
 250 GigaByte, NVMe Interface, PCIe Gen 3x4, 512E format

Regulatory Model Number STA020

* 2000 GigaByte, NVMe Interface, PCIe Gen 4x4, 512E format
 1000 GigaByte, NVMe Interface, PCIe Gen 4x4, 512E format
 500 GigaByte, NVMe Interface, PCIe Gen 4x4, 512E format



Product Service

CERTIFICATE

No. B 041780 0719 Rev. 00

Regulatory Model Number STA021

- * 2000 GigaByte, Serial-ATA interface
- 1000 GigaByte, SATA Interface
- 500 GigaByte, SATA Interface
- 250 GigaByte, SATA Interface

Regulatory Model Number STA022

- 4000 GigaByte, Serial-ATA interface
- 2000 GB, SATA Interface
- 1000 GB, SATA Interface
- 500 GB, SATA Interface

Regulatory Model Number STA023

- 3840 GigaByte, Serial-ATA interface
- 1920 GB, SATA Interface
- 960 GB, SATA Interface
- 480 GB, SATA Interface
- 240 GB, SATA Interface

* = Indicates configuration tested

Conditions of Acceptability:

1. Disc drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
3. Drives were evaluated at maximum ambient (55°C) determined by Seagate specification. Seagate specification also states, a maximum allowable drive case temperature of 60°C. This specification was exceeded during testing.
4. External fan was part of test fixture to maintain recommended case temperature during testing. Additional cooling is recommended as part of end use configuration to maintain recommended operating case temperature at specific airflow.

Tested according to: EN 60950-1:2006/A2:2013

Production Facility(ies): 096583, 028752

TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD TÜV SÜD
ZERTIFIKAT ♦ CERTIFICATE ♦ 認證證書 ♦ CERTIFICADO ♦ CERTIFICAT



Product Service

CERTIFICATE

No. B 041780 0720 Rev. 00

Holder of Certificate: **Seagate Technology LLC**
1280 Disc Drive
Shakopee, MN 55379-1863
USA

Certification Mark:



Product: **Disk drives**
Solid State Drive

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 092-72144195-300

Valid until: 2023-01-06

Date, 2020-05-20 (Adrian Rabago Valenzuela)



Product Service

CERTIFICATE

No. B 041780 0720 Rev. 00

Model(s): Regulatory Model STA002, Regulatory Model STA012,
Regulatory Model STA018, Regulatory Model STA019,
Regulatory Model STA020, Regulatory Model STA021,
Regulatory Model STA022, Regulatory Model STA023

Parameters:

Rated Input Voltage:	+5 VDC +3.3 VDC STA020, STA019
Rated Input Current:	
STA002, STA012:	1.10 A
STA018:	0.20 A
STA019:	1.2 A
STA020:	1.55 A
STA021:	0.30 A
STA022:	0.40 A
STA023:	0.75 A
Protection Class:	III
Degree of Protection:	2
Case Temperature:	60 °C
Maximum Altitude:	3048 m

Conditions of Acceptability:

1. Solid state drives are to be supplied by a reliably SELV power supply.
2. Suitable enclosure (fire/mechanical) to be provided/evaluated when drive is installed in the end use product.
3. Proper air flow should be considered in the end use product to limit maximum case temperature to 60°C. Testing was conducted with a 40 CFM fan.

Tested according to: EN 62368-1:2014/A11:2017

Production Facility(ies): 028752, 096583

符合性聲明書
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
D33027	040720201448

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：台灣希捷科技股份有限公司(Seagate Technology Taiwan, Ltd.)

Obligatory Applicant

地址：臺北市松山區復興北路 363 號 14 樓 B 室

Address

電話：886-2-2514-2273

Telephone

商品中(英)文名稱：固態磁碟機 SSD

Commodity Name

商品型式(或型號)：

Commodity Type (Model)

STA022: ZA500GM10001, ZA1000GM10001, ZA2000GM10001,
ZA4000GM10001, ZA250NM10002, ZA500NM10002, ZA1000NM10002,
ZA2000NM10002, ZA4000NM10002

符合之檢驗標準及版次：CNS 13438/ Complete 2006 Class B/ Section 5 "Marking of presence" of CNS 15663 2013.7)

Standard(s) and version

試驗報告編號：SEAG0262.2 (EMC)/ SG2003247-ATS/GENV/318/20/yao

Test Report Number

試驗室名稱及代號：Element Materials Technology (EMC)/ ALS Laboratory Group (RoHS)

Testing laboratory name and designation number

SL2-IN-E-1152R

符合性聲明檢驗標識及識別號碼：

The form of the DoC marking appears like this



D33027
RoHS

或
or



D33027
RoHS

茲聲明上述商品符合商品檢驗法符合性聲明之規定。若因違反本聲明書所聲明之內容，願意擔負相關法律責任。

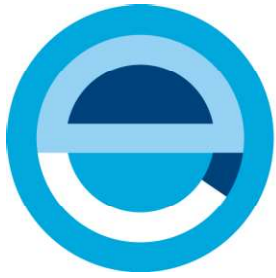
I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：台灣希捷科技股份有限公司/ **Lai Chun Cheong** (簽章)

Obligatory Applicant The Board Chairman of Seagate Technology Taiwan (Signature)

中華民國 109 年 04 月 07 日

DATE (year) (month) (day)



element

Seagate Technology LLC

STA022

**ZA500GM10001, ZA1000GM10001
ZA2000GM10001, ZA4000GM10001,
ZA250NM10002, ZA500NM10002,
ZA1000NM10002, ZA2000NM10002,
ZA4000NM10002**

Report: SEAG0262.2, Issue Date: March 27, 2020



NVLAP LAB CODE: 200881-0



This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. This Report shall not be reproduced, except in full without written approval of the laboratory.



CERTIFICATE OF TEST

Last Date of Test: March 17, 2020
Seagate Technology LLC
EUT: STA022

Emissions

Standards

Specification	Method
CNS 13438:2006 (Complete) Class B	CNS 13438:2006 (Complete)

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	

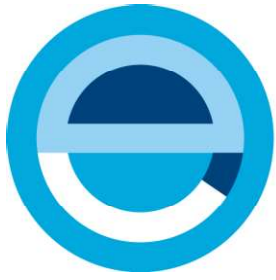
Deviations From Test Standards

None

Approved By:

Eric Brandon, Department Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.



element

Seagate Technology LLC

STA022

Report: SEAG0262, Issue Date: March 27, 2020



NVLAP LAB CODE: 200881-0



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CERTIFICATE OF TEST

Last Date of Test: March 18, 2020
Seagate Technology LLC
EUT: STA022

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
EN 61000-3-2:2014	IEC 61000-3-2:2018
EN 61000-3-3:2013	IEC 61000-3-3:2013 +A1:2017
FCC 15.107:2020 Class B	ANSI C63.4:2014
FCC 15.109:2020 Class B	
FCC 15.109(g):2020 Class B	
ICES-003:2016 updated April 2017 Class B	
VCCI-CISPR 32:2016 Class B	CISPR 32:2015

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:



Eric Brandon, Department Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information. As indicated in the Statement of Work sent with the quotation, Element's standard process is to always use the latest published version of the test methods even when earlier versions are cited in the test specification. Issuance of a purchase order was de facto acceptance of this approach. Otherwise, the client would have advised Element in writing of the specific version of the test methods they wanted applied to the subject testing.



Acceptance of Report of Compliance

Company name:	Seagate Technology	Member number:	3046
Address:	10200 Sourh De Anza Blvd. Cupertino, CA 95014 USA	Report No.:	2020080357
Responsible person:	Phil Rich	Reporting date:	2020/04/07
Department:	Retail	Reporting media:	online
E-mail:	phil.rich@seagate.com	Status:	accepted
Contact person:	Phil Rich	Last report No.:	
Address:	10200 South De Anza Blvd. Cupertino, CA 95014 USA	Acceptance No.:	2020056251
Department:	Retail	Sub No.:	1
Phone:	1-408-658-1396	Acceptance date:	2020/04/07
FAX:	1-408-328-2183		
E-mail:	phil.rich@seagate.com		
Recipient of Acceptance Notice:			
Department:	Retail		
E-mail:	eric.y.su@seagate.com		

Reporting type:	new		
Applied VCCI Rule:	VCCI 32-1		
Classification of Equipment and classification code:	ClassB / Classification code g2		
General Name of Equipment:	Solid State Drive		
Product type (Model No.):	STA022		
Member number of a test laboratory:	564	Element Materials Technology Portland-Evergreen Inc.	
Name of the testing laboratory:			
Measurement facility registration number:	Measurement item and Registration No. of Testing facility.		Measurement distance/Reason why not applicable
	1. Radiated EMI measurement below 1GHz facility	R-	10 m
	2. Radiated EMI measurement above 1GHz facility	G-	3 m
	3. Mains port conducted EMI measurement facility	C-	
	4. Conducted EMI measurement for Wired Network port, etc (including Tuner port, Antenna port, etc)	T-	
	5. Article 15 registered laboratory	A-109	
	6. This compliance verification test was conducted at the installation site of users.		
Date of testing:	2020/03/16		
Serial No. of the test report:	SEAG0262		
Reason for addition/modification:			
VCCI comment:			