China

FCC - TEST REPORT

Report Number	:	**68.760.15.062.01**	Date of Issue:	March 11, 2015

Model	:	SATAIII-I
Product Type	:	SATAIII-I Solid State Disk
Applicant	:	Shenzhen KingSpec Electronics Technology Co., Ltd
Address	:	3rd/F., Block 4, Tongfuyu Ind. Park, Tanglang, Xili, Nanshan, Shenzhen, China
Production Facility	:	Shenzhen KingSpec Electronics Technology Co., Ltd
Address	:	3rd/F., Block 4, Tongfuyu Ind. Park, Tanglang, Xili, Nanshan, Shenzhen, China

Test Result	:	■ **Positive** ☐ **Negative**
Total pages including Appendices	:	15

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2 Details about the Test Laboratory

Details about the Test Laboratory

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, Nanshan District, Shenzhen City, 518052, P. R. China
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Site 2

Company name:	NTEK Testing Technology Co., Ltd 1/F, Building E, Fenda Science Park, Sanwei, Xixiang, Bao'an, Shenzhen 518102, China
FCC Registration No:	238937
Telephone:	86 755 6115 6549
Fax:	86 755 6115 6599

3 Description of the Equipment Under Test

Product:	SATAIII-I Solid State Disk
Model no.:	SATAIII-I
FCC ID:	OFTSATAIII-I
Brand Name:	KingSpec, ASpec
Options and accessories:	NIL
Rating:	DC 5.0V by PC
Description of the EUT:	The Equipment Under Test (EUT) is a Solid state dirve

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4 Auxiliary Equipment and Operation Mode

Test Mode List		
Test Mode	Description	Remark
TM1	Transfer Data	Connect to PC

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
PC	DELL	FT4Y23X	34413561645
Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es
Keyboard	DELL	SK-8185	OY526KUS
Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7
Printer	Canon	L11121E	LBP2900

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5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart B 10-1-14 Edition	Unintentional Radiators

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6 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart B 10-1-14 Edition				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
Conducted Emission on AC 150kHz to 30MHz	9	☒	☐	☐
Radiated Emission 30MHz to 1000MHz	13	☒	☐	☐

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7 General Remarks

Remarks

Nil.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: 2 March 2015

Testing Start Date: 2 March 2015

Testing End Date: 11 March 2015

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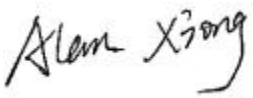
Reviewed by:

John Zhi
EMC Project Manager

Prepared by:



Alan Xiong
EMC Project Engineer

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8 Technical Requirement

8.1 Conducted Emission Test

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.107, conducted emissions limit as below:

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

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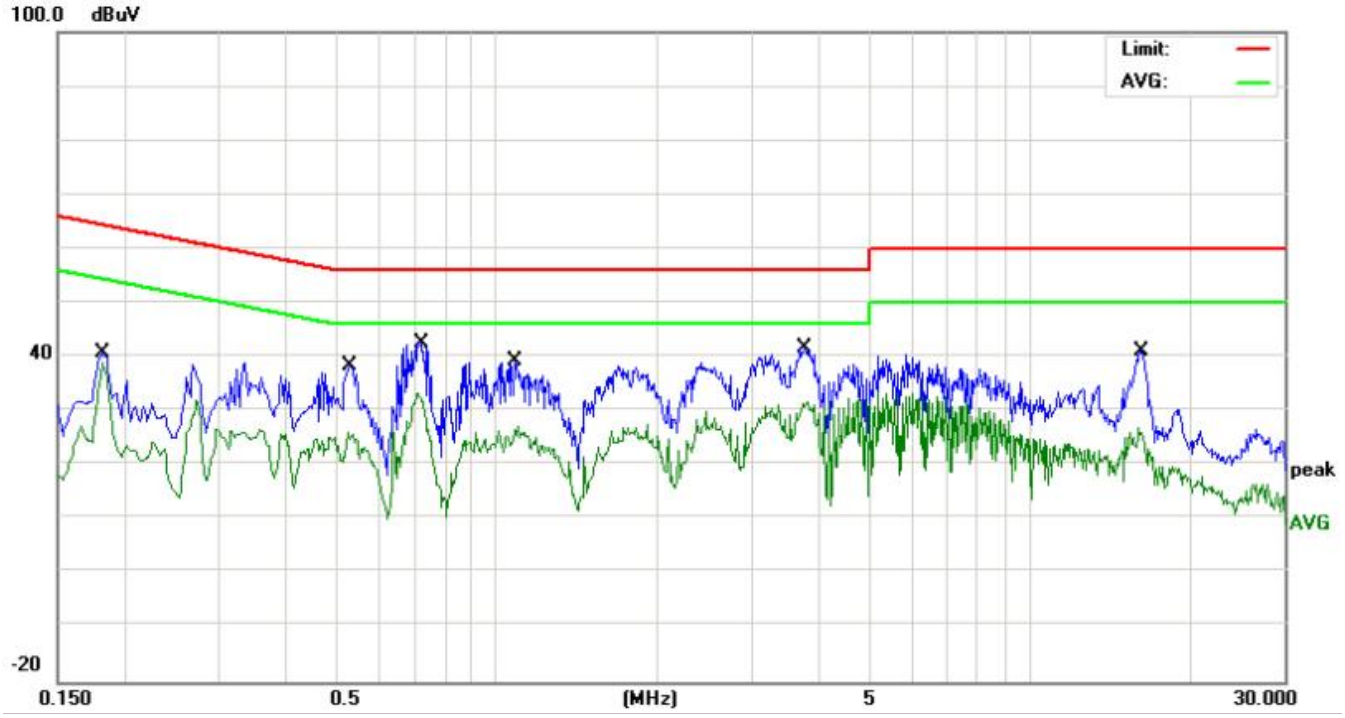
Conducted Emission

Product Type : SATAIII-I Solid State Disk
M/N : SATAIII-I
Operating Condition : Transfer Data
Test Specification : Line
Comment : AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1819	31.22	9.61	40.83	64.39	-23.56	QP	
2		0.1819	29.20	9.61	38.81	54.39	-15.58	AVG	
3		0.5260	28.51	9.77	38.28	56.00	-17.72	QP	
4		0.5260	16.22	9.77	25.99	46.00	-20.01	AVG	
5		0.7140	32.92	9.78	42.70	56.00	-13.30	QP	
6	*	0.7140	23.43	9.78	33.21	46.00	-12.79	AVG	
7		1.0980	29.46	9.72	39.18	56.00	-16.82	QP	
8		1.0980	17.64	9.72	27.36	46.00	-18.64	AVG	
9		3.8380	32.00	9.70	41.70	56.00	-14.30	QP	
10		3.8380	22.18	9.70	31.88	46.00	-14.12	AVG	
11		15.9859	31.32	9.83	41.15	60.00	-18.85	QP	
12		15.9859	16.99	9.83	26.82	50.00	-23.18	AVG	

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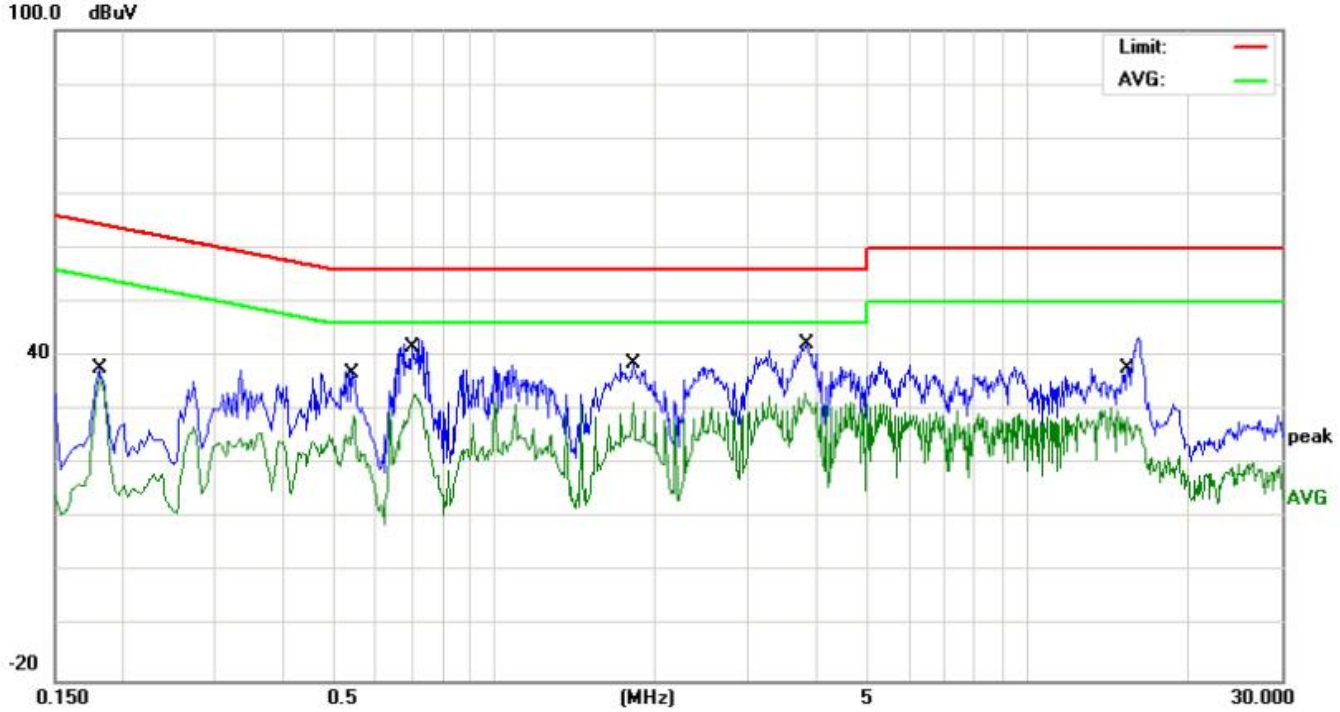
Conducted Emission

Product Type : SATAIII-I Solid State Disk
M/N : SATAIII-I
Operating Condition : Transfer Data
Test Specification : Neutral
Comment : AC 120V/60Hz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1819	28.15	9.61	37.76	64.39	-26.63	QP	
2		0.1819	26.76	9.61	36.37	54.39	-18.02	AVG	
3		0.5460	27.80	9.67	37.47	56.00	-18.53	QP	
4		0.5460	19.31	9.67	28.98	46.00	-17.02	AVG	
5	*	0.7058	33.61	9.64	43.25	56.00	-12.75	QP	
6		0.7058	23.26	9.64	32.90	46.00	-13.10	AVG	
7		1.8260	29.21	9.55	38.76	56.00	-17.24	QP	
8		1.8260	21.84	9.55	31.39	46.00	-14.61	AVG	
9		3.8300	32.69	9.51	42.20	56.00	-13.80	QP	
10		3.8300	23.67	9.51	33.18	46.00	-12.82	AVG	
11		15.4099	33.78	9.76	43.54	60.00	-16.46	QP	
12		15.4099	18.97	9.76	28.73	50.00	-21.27	AVG	

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Test Equipment List

Conducted emission test

Description	Manufacturer	Model No.	Serial No.	Last calibration	Calibrated until
LISN	R&S	ENV216	101313	Jul. 06, 2014	Jul. 05, 2015
LISN	R&S	ENV216	111315	Jul. 06, 2014	Jul. 05, 2015
50Ω Switch	ANRITSU CORP	MP59B	6.201E+09	Jul. 06, 2014	Jul. 05, 2015
Test Cable	N/A	C01	N/A	Jul. 06, 2014	Jul. 05, 2015
Test Cable	N/A	C02	N/A	Jul. 06, 2014	Jul. 05, 2015
Test Cable	N/A	C03	N/A	Jul. 06, 2014	Jul. 05, 2015
EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2014	Jul. 05, 2015
Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Jul. 06, 2014	Jul. 05, 2015
Absorbing Clamp	R&S	MDS-21	100423	Jul. 06, 2014	Jul. 05, 2015

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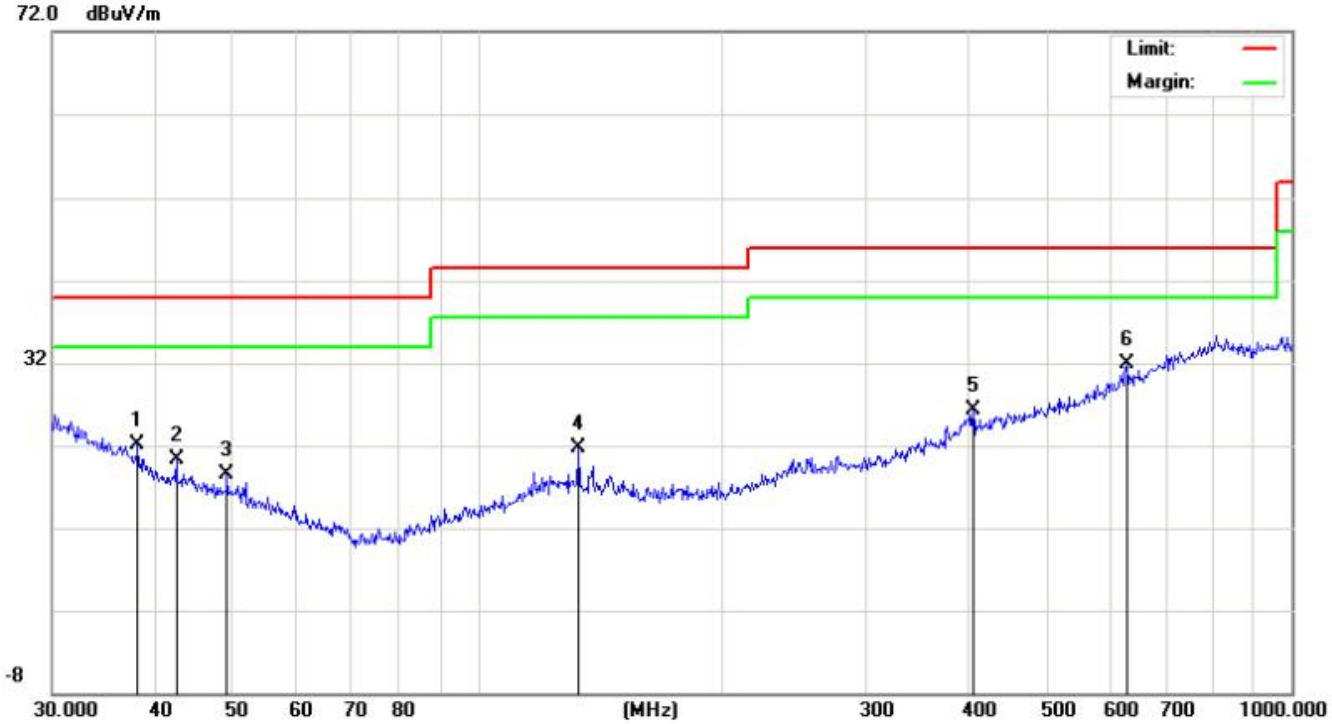
8.2 Radiated Emission Test 30MHz – 1000MHz

Product Type	:	SATAIII-I Solid State Disk
M/N	:	SATAIII-I
Operating Condition	:	Transfer Data
Ant. Polarity	:	Horizontal
Comment	:	30-1000MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		38.2120	7.48	14.66	22.14	40.00	-17.86	QP			
2		42.6000	7.70	12.70	20.40	40.00	-19.60	QP			
3		49.1865	7.59	10.89	18.48	40.00	-21.52	QP			
4		133.1511	10.05	11.74	21.79	43.50	-21.71	QP			
5		406.0880	7.78	18.43	26.21	46.00	-19.79	QP			
6	*	627.2738	8.89	22.95	31.84	46.00	-14.16	QP			

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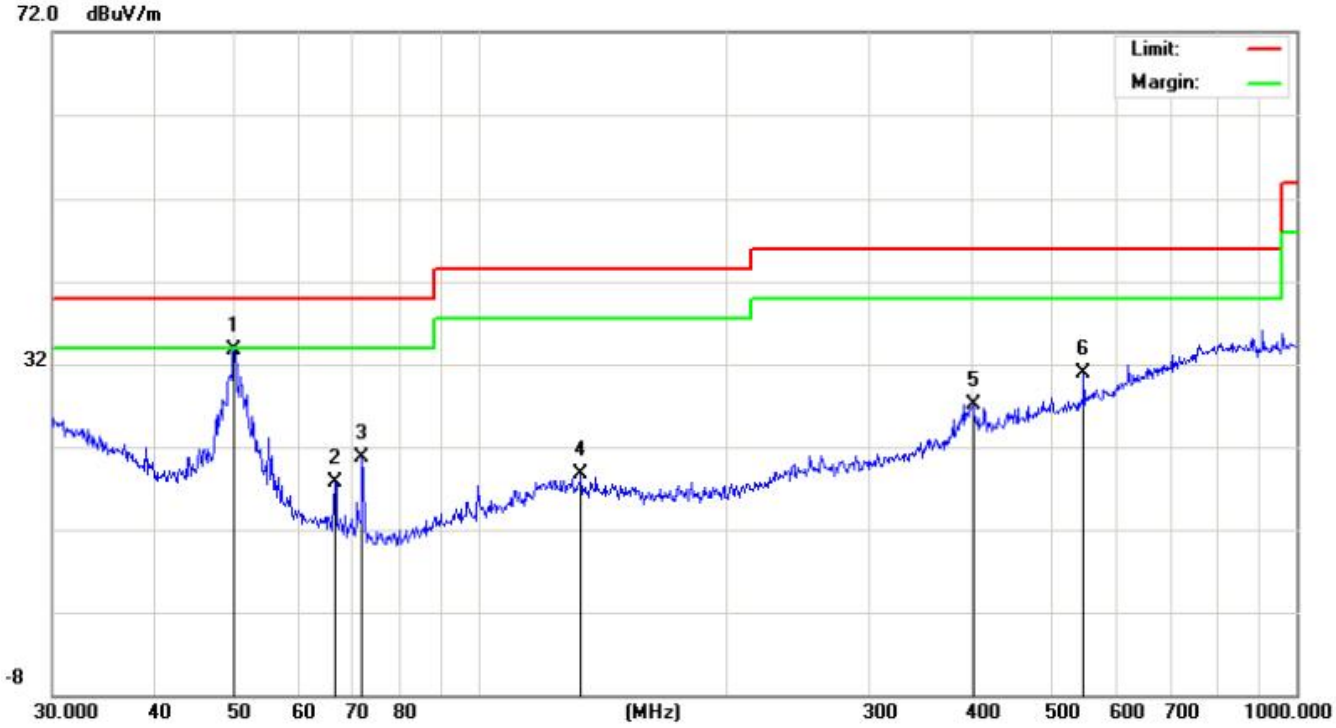
7.2 Radiated Emission Test 30MHz – 1000MHz

Product Type : SATAIII-I Solid State Disk
M/N : SATAIII-I
Operating Condition : Transfer Data
Ant. Polarity : Vertical
Comment : 30-1000MHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	50.0566	22.99	10.67	33.66	40.00	-6.34	QP			
2		66.4989	11.38	6.37	17.75	40.00	-22.25	QP			
3		71.8319	15.07	5.62	20.69	40.00	-19.31	QP			
4		133.1511	6.94	11.74	18.68	43.50	-24.82	QP			
5		401.8385	8.81	18.35	27.16	46.00	-18.84	QP			
6		549.0193	9.58	21.31	30.89	46.00	-15.11	QP			

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Test Equipment List

Radiated Emission Test

Description	Manufacturer	Model No.	Serial No.	Last calibration	Calibrated until
Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2014	Jul. 05, 2015
Test Cable	N/A	R-01	N/A	Jul. 06, 2014	Jul. 05, 2015
Test Cable	N/A	R-02	N/A	Jul. 06, 2014	Jul. 05, 2015
EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2014	Jul. 05, 2015
Antenna Mast	EM	SC100_1	N/A	N/A	N/A
Turn Table	EM	SC100	060531	N/A	N/A
50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2014	Jul. 05, 2015
Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2014	Jul. 05, 2015
Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2014	Jul. 05, 2015
Amplifier	EM	EM-30180	060538	Jul. 06, 2014	Jul. 05, 2015

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