

588 West Jindu Road, Xingiao, Songjiang, 201612 Shanghai, China

Telephone: +86 (0) 21 6191 5666 Report No.: SHEM180400314502 Fax: +86 (0) 21 6191 5678

ee.shanghai@sgs.com

Page: 1 of 14

# TEST REPORT

**Application No.**: SHEM1804003145CR **FCC ID** 2ADTD-K1T803EF

**Applicant:** Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Applicant: No. 555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No. 555 Qianmo Road, Binjiang District, Hangzhou 310052, China

**Factory:** 1.Hangzhou Hikvision Technology Co., Ltd.

2.Hangzhou Hikvision Electronics Co., Ltd. 3.Hangzhou Hikvision Digital Technology Co., Ltd.

**Address of Factory:** 1. No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang,

310052, China

2. No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 310052, China

3. No. 555, Qianmo Road, Binjiang District, Hangzhou City, Zhejiang

Province, China

**Equipment Under Test (EUT):** 

**EUT Name:** Fingerprint Access Control Terminal

Model No.: DS-K1T804EF, DS-K1T804F, DS-K1T804EF-1, DS-K1T804F-1, DS-

K1T804EF-E, DS-K1T804F-E, DS-K1T803F, DS-K1T803EF, DS-K1T803EF-1, DS-K1T803F-1, DS-K1T8003F, DS-K1T8003EF, DS-K1T804EFHGO, DS-K1T804FHGO, DS-K1T804FGPR, DS-K1T804FGPR, DS-K1T804EFROG, DS-K1T804EFURG, DS-K1T

K1T804FURG, DS-K1T803XYZ-UVW ¤

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade mark: HIKVISION

Standard(s): 47 CFR Part 15, Subpart C 15.209

**Date of Receipt:** 2018-04-26

**Date of Test:** 2018-05-04 to 2018-05-14

**Date of Issue:** 2018-05-22

Test Result: Pass\*

<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions.aspx">https://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="https://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">https://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SHEM180400314502

Page: 2 of 14

Revision Record							
Version	Description	Date	Remark				
00	Update Report	2018-05-22	Base on SZEM170800857402 (SHEM170200060902)				

Authorized for issue by:		
	Vincent Zhu	
	Vincent Zhu / Project Engineer	
	Parlam Zhan	
	Parlam Zhan / Reviewer	-



Report No.: SHEM180400314502

Page: 3 of 14

# 2 Test Summary

Radio Spectrum Technical Requirement							
Item Standard Method Requirement Result							
Antenna Requirement	47 CFR Part 15, Subpart C 15.209	N/A	47 CFR Part 15, Subpart C 15.203	See Note 2			

Radio Spectrum Matt	Radio Spectrum Matter Part							
Item	Standard	Method	Requirement	Result				
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.209	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	See Note 2				
20dB Bandwidth	47 CFR Part 15, Subpart C 15.209	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.237(b)	See Note 2				
Radiated Emissions 47 CFR Part 15 (9kHz-30MHz) Subpart C 15.20		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.237(c)	Pass				
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart C 15.209	ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.237(c)	Pass				

#### Note 1: Declaration of EUT Family Grouping:

There are series models mentioned in this report and they are the similar in electrical and electronic characters. Only the model DS-K1T804EF was tested since their differences are silk and their naming

Note 2: Updated report base on SZEM170800857402.

Note 3: The model DS-K1T804EF only exchange RTC schematic with original report



Report No.: SHEM180400314502

Page: 4 of 14

# 3 Contents

			Page
1	CO	VER PAGE	1
2	TE	ST SUMMARY	3
3	СО	ONTENTS	4
4	GE	NERAL INFORMATION	5
	4.1	DETAILS OF E.U.T.	5
	4.2	DESCRIPTION OF SUPPORT UNITS	5
	4.3	MEASUREMENT UNCERTAINTY	
	4.4	TEST LOCATION	
	4.5	TEST FACILITY	6
	4.6	DEVIATION FROM STANDARDS	
	4.7	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQ	UIPMENT LIST	7
6	RA	DIO SPECTRUM MATTER TEST RESULTS	8
	6.1	RADIATED EMISSIONS	8
	6.2	RADIATED EMISSIONS (30MHz-1GHz)	11
	6.2	P.1 E.U.T. Operation	11
		P.2 Test Setup Diagram	
	6.2	2.3 Measurement Procedure and Data	11
7	TE	ST SETUP PHOTOGRAPHS	14
8	EU	T CONSTRUCTIONAL DETAILS	14



Report No.: SHEM180400314502

Page: 5 of 14

# 4 General Information

#### 4.1 Details of E.U.T.

Power supply: DC 12V 1A
Test voltage: AC 120V 60Hz

Operation Frequency 125KHz

Antenna Type Loop Antenna

Modulation Type ASK

#### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
AC Adapter DVE		DSA-12G-12FEU	/
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	/	Test Plate 3	/

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty		
1	Radio Frequency	7.25 x 10-8		
2	Timeout	2s		
3	Duty cycle	0.37%		
4	Occupied Bandwidth	3%		
5	RF conducted power	0.75dB		
6	RF power density	2.84dB		
7	Conducted Spurious emissions	0.75dB		
8	DE Dedicted news	4.5dB (Below 1GHz)		
0	RF Radiated power	4.8dB (Above 1GHz)		
		4.2dB (Below 30MHz)		
	Dadistad Causiana amiasian taat	4.4dB (30MHz-1GHz)		
9	Radiated Spurious emission test	4.6dB (1GHz-18GHz)		
		5.2dB (Above 18GHz)		
10	Temperature test	1℃		
11	Humidity test	3%		
12	Supply voltages	1.5%		
13	Time	3%		

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Report No.: SHEM180400314502

Page: 6 of 14

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

#### 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

#### • FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

#### Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1.

#### VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, 1C-4336, T-12221, G-10830 respectively.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



Report No.: SHEM180400314502

Page: 7 of 14

# 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Test			, , ,		
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2017-07-03	2018-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25



Report No.: SHEM180400314502

Page: 8 of 14

# 6 Radio Spectrum Matter Test Results

#### 6.1 Radiated Emissions

**Test frequency range:** 9KHz – 1GHz

**Test Site:** Measurement Distance: 3m

**Receiver Setup:** 

Frequency (MHz)	RBW	VBW	Detector
0.009-0.015	200Hz	1KHz	Quasi-peak
0.015-30	9kHz	30KHz	Quasi-peak
30-1000	30-1000 120 kHz		Quasi-peak

Note: The emission limits shown in the above table are based on measurement instrumentation employing a CISPR quasi-peak detector. For the frequency bands 9~90 kHz, 110~490 kHz and above 1000 MHz, the radiated emission limits are based on measurements employing an average detector.

Limit:

Frequency (MHz)	Field strength (µV/m)	Measurement distance (m)	Limit (dBµV/m )	Limit @3m (dBµV/m )
0.009-0.490	0.009-0.490 2400/F(kHz)		48.5 ~ 13.8	128.5 ~ 93.8
0.490-1.705	0.490-1.705 24000/F(kHz)		33.8 ~ 23.0	73.8 ~63.0
1.705-30	30	30	29.5	69.5
30-88	100	3 40.0		40.0
88-216	150	3	43.5	43.5
216-960 200		3	46.0	46.0
960-1000	500	3	54.0	54.0

#### NOTE:

(1) For test distance other than what is specified, but fulfilling the requirements of section 15.31(f) (2) the field strength is calculated by adding additionally an extrapolation factor of 40dB/decade (inverse linear distance for field strength measurements).

So the Distance Extrapolation Factor in dB is  $40*log (D_{TEST} / D_{SPEC})$  where  $D_{TEST} = Test Distance$  and  $D_{SPEC} = Specified Distance$ .

Field strength limit  $(dB\mu V/m)$ @test distance= Field strength limit  $(dB\mu V/m)$ @specified distance -Distance Extrapolation Factor

(2) The lower limit shall apply at the transition frequencies.

Limit:

(Fundamental signal)

**Test Procedure:** 

Frequency	Limit (dBuV/m @3m)	Remark
13.56MHz	124	Quasi-peak Value

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indeminification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or laisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SHEM180400314502

Page: 9 of 14

ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

#### **Test Setup:**

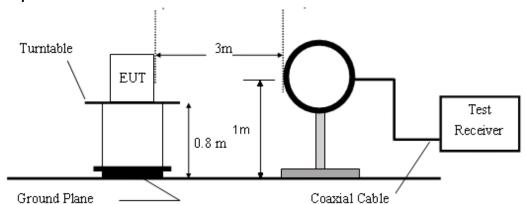


Figure 1. Below 30MHz

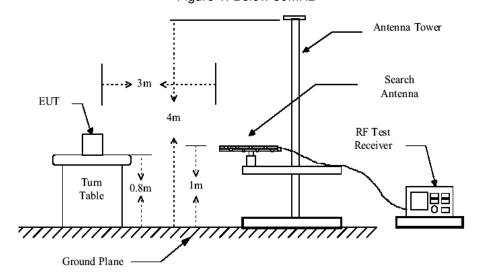


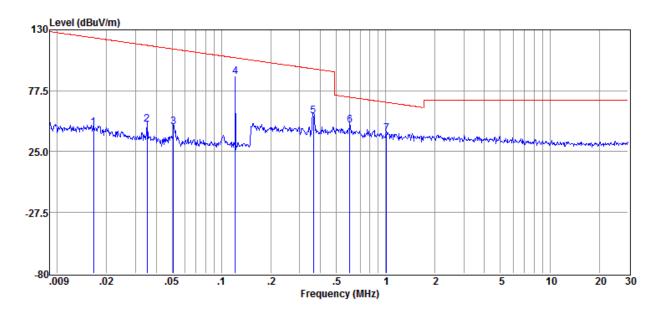
Figure 2. 30MHz to 1GHz

Test Results: Pass



Report No.: SHEM180400314502

Page: 10 of 14



Item	Freq.	Read	Antenna	Cable	Result	Distance Factor	Result	Limit Line	Over	Detector
	·	Level	Factor	Loss	Level@3m	Facioi	Leve		Limit	
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.02	25.18	20.55	0.03	45.76	80	-34.24	114.24	-77.39	QP
2	0.04	28.19	20.19	0.04	48.42	80	-31.58	111.58	-68.25	QP
3	0.05	26.35	19.99	0.04	46.38	80	-33.62	113.62	-67.05	QP
4	0.12	69.45	19.90	0.05	89.40	80	9.4	70.6	-16.50	Peak
5	0.36	36.10	19.80	0.06	55.96	80	-24.04	16.39	-40.43	QP
6	0.61	27.93	19.66	0.07	47.66	40	7.66	32.34	-24.30	QP
7	1.01	21.22	19.30	0.07	40.59	40	0.59	39.41	-26.94	QP

Result Level = Read Level + Antenna Factor + Cable loss - Preamp Factor



Report No.: SHEM180400314502

Page: 11 of 14

#### 6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.237(c)
Test Method: ANSI C63.10 (2013) Section 6.4&6.5

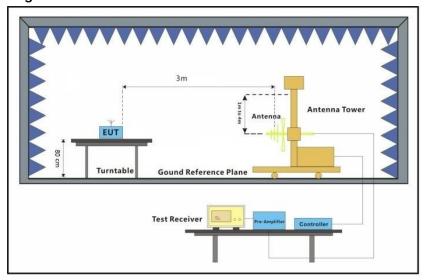
#### 6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1001 mbar

Test mode b:TX mode\_Keep the EUT in transmitting with modulation mode.

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

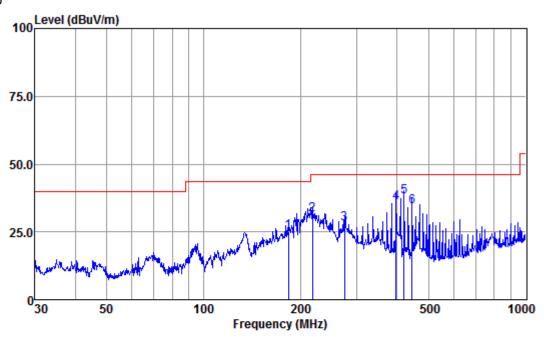
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Report No.: SHEM180400314502

Page: 12 of 14

#### Mode: b



# Antenna Polarity : HORIZONTAL

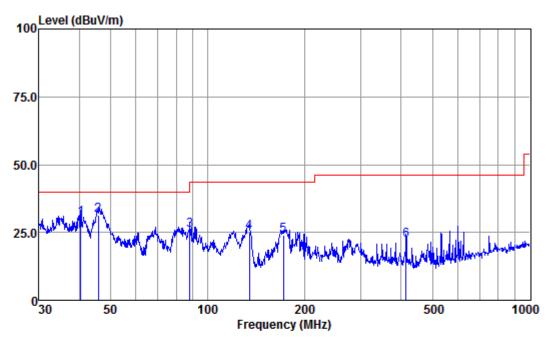
		Read	Antenna	Cable	Preamp	Emission	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	183.84	55.71	11.26	0.67	42.55	25.09	43.50	-18.41	QP
2	218.31	62.80	10.22	0.72	42.50	31.24	46.00	-14.76	QP
3	274.19	57.15	12.35	0.81	42.43	27.88	46.00	-18.12	QP
4	396.24	62.03	15.03	0.99	42.11	35.94	46.00	-10.06	QP
5	420.58	63.59	15.57	1.03	42.11	38.08	46.00	-7.92	QP
6	444.85	59.17	16.10	1.08	42.12	34.23	46.00	-11.77	QP



Report No.: SHEM180400314502

Page: 13 of 14

#### Mode: b



# Antenna Polarity : VERTICAL

		Read	Antenna	Cable	Preamp	Emissio	n Limit	0ver	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
1	40.42	56.56	16.03	0.22	42.62	30.19	40.00	-9.81	QP
2	45.86	60.83	12.83	0.24	42.63	31.27	40.00	-8.73	QP
3	88.34	60.00	8.08	0.41	42.68	25.81	43.50	-17.69	QP
4	135.03	55.24	12.01	0.60	42.64	25.21	43.50	-18.29	QP
5	171.99	54.26	11.66	0.65	42.57	24.00	43.50	-19.50	QP
6	413.27	47.99	15.40	1.02	42.10	22.31	46.00	-23.69	QP

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



Report No.: SHEM180400314502

Page: 14 of 14

# 7 Test Setup Photographs

Refer to the < Test Setup Photos-FCC >

## 8 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -