

Report No.: File Reference No.: TW2011170-02E 2020-11-26

Applicant: Qingdao Hisense Intelligent Commercial System Co. Ltd

Product: Tablet POS

Model No.: HM626R, HM626

N/A

Trademark:

Test Standards: FCC Part 15.247

Test Result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Manager

Dated:

November 26, 2020

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) — Registration No.: 5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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1.0 General Details

Test Lab Details 1.1

SHENZHEN TIMEWAY TESTING LABORATORIES. Name : Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Address: Village, Nanshan District, Shenzhen, China Telephone: (755) 83448688 Fax: (755) 83442996 Site Listed with Federal Communications commission (FCC) Registration Number:744189 For 3m Anechoic Chamber Site Listed with Industry Canada of Ottawa, Canada Registration Number: IC: 5205A For 3m Anechoic Chamber

1.2 Applicant Details

Applicant:	Qingdao Hisense Intelligent Commercial System Co. Ltd
Address:	399 Songling Road, Laoshan, Qingdao, Shandong
Telephone:	
Fax:	

1.3 Description of EUT

Product:	Tablet POS
Manufacturer:	Qingdao Hisense Intelligent Commercial System Co. Ltd
Address:	399 Songling Road, Laoshan, Qingdao, Shandong
Brand Name:	N/A
Model Number:	HM626R
Additional Model Nur	nber: HM626
Hardware Version: W	TR288C1 REV:1.2
Software Version: V1.	01.KB09.HM626R
Type of Modulation	GFSK, $\pi/4D$ -QPSK, 8DPSK for Bluetooth
Frequency range	2402-2480MHz for Bluetooth
Channel Spacing	1MHz for Bluetooth
Frequency Selection	By software
Channel Number	79 channels for Bluetooth
Antenna:	Integral antenna used. The gain of the antennas is 2.0dBi (get from the antenna
	specification provided the applicant)
Input Voltage:	DC5V
Battey:	DC3.8V, 11000mAh Li-ion battery
Power Supply:	Model: PG241-12020001; Input: 100-240V~, 50/60Hz, 0.8A;

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(for simple base)Output: 12.0V 2.0A,24WPower Supply:Model: FSP090-AAAN3; Input: 100-240V~, 50-60Hz, 1.2A;(for multi-functionalOutput: DC24.0V, 3.75A,90Wbase)

- 1.4 Submitted Sample: 1 Samples
- 1.5 Test Duration 2020-11-12 to 2020-11-26
- 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions below 1GHz Uncertainty =4.7dB Radiated Emissions above 1GHz Uncertainty =6.0dB Conducted Power Uncertainty =6.0dB Occupied Channel Bandwidth Uncertainty =5% Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

Terry (ang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment						
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	R&S	ESPI 3	100379	2020-06-23	2021-06-22	
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2020-06-23	2021-06-22	
Loop Antenna	EMCO	6507	00078608	2018-06-25	2021-06-24	
Spectrum	R&S	FSIQ26	100292	2020-06-23	2021-06-22	
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2019-06-21	2021-06-20	
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-07-09	2021-07-08	
Power meter	Anritsu	ML2487A	6K00003613	2020-06-23	2021-06-22	
Power sensor	Anritsu	MA2491A	32263	2020-06-23	2021-06-22	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2021-07-03	
9*6*6 Anechoic			N/A	2018-02-07	2021-02-06	
EMI Test Receiver	RS	ESVB	826156/011	2020-06-23	2021-06-22	
EMI Test Receiver	RS	ESH3	860904/006	2020-06-23	2021-06-22	
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2020-06-23	2021-06-22	
Spectrum	HP/Agilent	E4407B	MY50441392	2020-06-23	2021-06-22	
Spectrum	RS	FSP	1164.4391.38	2020-01-16	2021-01-15	
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2020-06-23	2021-06-22	
RF Cable	Zhengdi	7m		2020-06-23	2021-06-22	
RF Switch	EM	EMSW18	060391	2020-06-23	2021-06-22	
Pre-Amplifier	Schwarebeck	BBV9743	#218	2020-06-23	2021-06-22	
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2020-06-23	2021-06-22	
LISN	SCHAFFNER	NNB42	00012	2020-01-06	2021-01-07	

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested acc	ording to the following specif	ications:	
Requirement	CFR 47 Section	Result	Notes
Antenna Requirement	15.203, 15.247(b)(4)	PASS	Complies
Maximum Peak Out Power	15.247 (b)(1), (4)	PASS	Complies
Carrier Frequency Separation	15.247(a)(1)	PASS	Complies
20dB Channel Bandwidth	15.247 (a)(1)	PASS	Complies
Number of Hopping Channels	15.247(a)(iii), 15.247(b)(1)	PASS	Complies
Time of Occupancy (Dwell Time)	15.247(a)(iii)	PASS	Complies
Spurious Emission, Band Edge, and Restricted bands	15.247(d),15.205(a), 15.209 (a),15.109	PASS	Complies
Conducted Emissions	15.207(a), 15.107	PASS	Complies
RF Exposure	15.247(i), 1.1307(b)(1)	PASS	Complies

Note: the multi-functional base and simple base were tested and only the worst case was reported. The multi-functional base was the worst case.

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

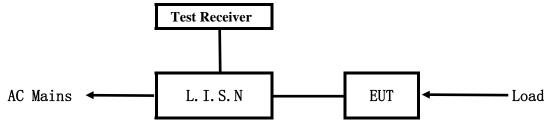
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

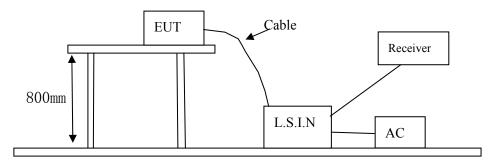


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10–2013. Test Voltage: 120V~ 60Hz

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

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A. EUT

Device	Manufacturer	Model	FCC ID
Tablet POS	Qingdao Hisense Intelligent Commercial	HM626R,	COV UM626
Tablet POS	System Co. Ltd	HM626	GQK-HM626

B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

Frequency	Limits (d	B μ V)			
(MHz)	Quasi-peak Level	Average Level			
$0.15~\sim~0.50$	66.0~56.0*	56.0~46.0*			
$0.50~\sim~5.00$	56.0	46.0			
$5.00 \sim 30.00$	60.0	50.0			

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The tighter limit shall apply at the transition frequencies

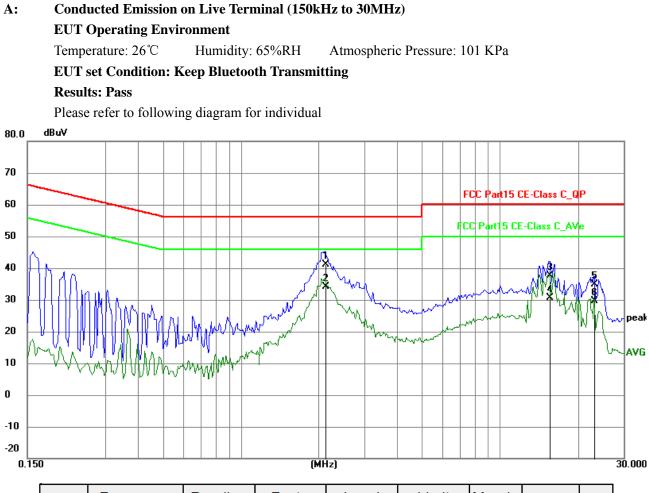
5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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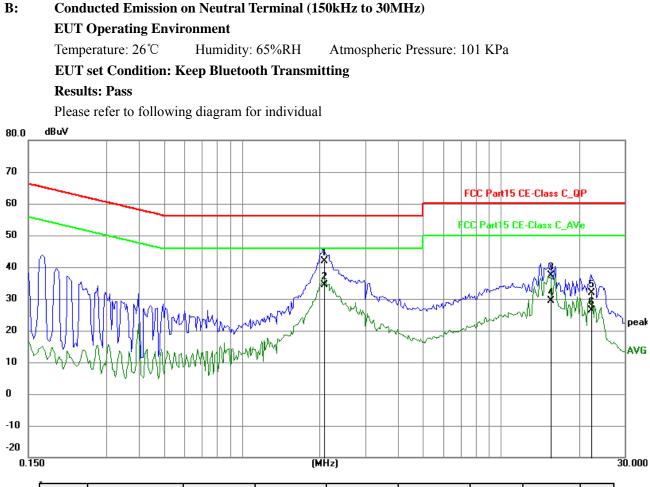


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	2.1195	31.41	9.81	41.22	56.00	-14.78	QP	Р
2	2.1195	24.35	9.81	34.16	46.00	-11.84	AVG	Р
3	15.4701	27.28	10.41	37.69	60.00	-22.31	QP	Ρ
4	15.4701	20.21	10.41	30.62	50.00	-19.38	AVG	Ρ
5	23.1279	24.05	10.87	34.92	60.00	-25.08	QP	Р
6	23.1279	18.85	10.87	29.72	50.00	-20.28	AVG	Ρ

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	2.0659	32.18	9.80	41.98	56.00	-14.02	QP	Р
2	2.0659	24.56	9.80	34.36	46.00	-11.64	AVG	Р
3	15.4701	27.03	10.41	37.44	60.00	-22.56	QP	Р
4	15.4701	18.93	10.41	29.34	50.00	-20.66	AVG	Ρ
5	22.2153	21.07	10.82	31.89	60.00	-28.11	QP	Р
6	22.2153	15.60	10.82	26.42	50.00	-23.58	AVG	Р

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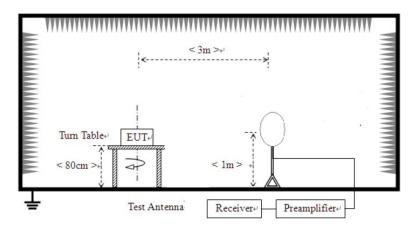


6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz

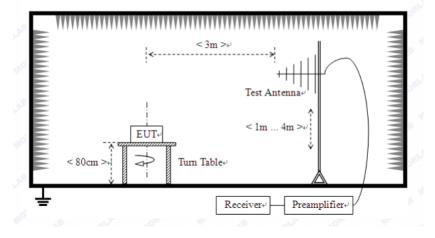


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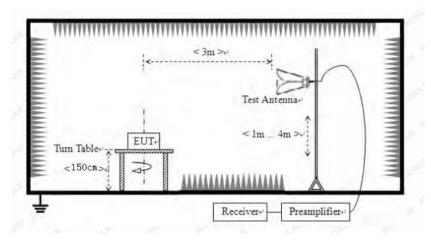
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For radiated emissions from 30MHz to1GHz



For radiated emissions above 1GHz



- 6.2 Configuration of The EUT Same as section 5.3 of this report
- 6.3 EUT Operating Condition Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage $(dBuV) = 20 \log RF$ Voltage (uV)

2. In the Above Table, the higher limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. 8DPSK was the worst case because it has highest output power

5. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Test result General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/Vertical (30MHz----1000MHz)

EUT set Condition: Keep Bluetooth Transmitting

Results:

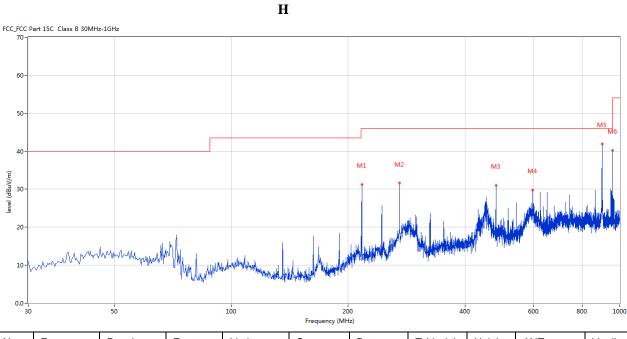
Pass

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Test Figure:



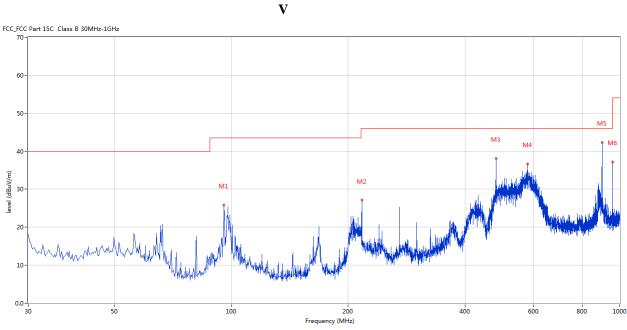
No.	Frequency	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	Limit (dB)			(cm)		
1	216.921	31.21	-13.51	46.0	-14.79	Peak	360.00	100	Horizontal	Pass
2	271.227	31.58	-11.72	46.0	-14.42	Peak	360.00	100	Horizontal	Pass
3	479.968	30.96	-7.40	46.0	-15.04	Peak	336.00	100	Horizontal	Pass
4	596.823	29.78	-5.11	46.0	-16.22	Peak	359.00	100	Horizontal	Pass
5	900.115	42.46	-1.86	46.0	-3.54	Peak	360.00	100	Horizontal	Pass
6	960.240	40.75	-1.63	54.0	-5.25	Peak	340.00	100	Horizontal	Pass

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Test Figure:



No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	95.701	25.81	-14.19	43.5	-17.69	Peak	0.00	100	Vertical	Pass
2	216.921	27.10	-13.51	46.0	-18.90	Peak	0.00	100	Vertical	Pass
3	479.968	38.12	-7.40	46.0	-7.88	Peak	0.00	100	Vertical	Pass
4	580.095	36.70	-5.60	46.0	-9.30	Peak	3.00	100	Vertical	Pass
5	900.115	42.67	-1.86	46.0	-3.33	Peak	31.00	100	Vertical	N/A
6	959.998	37.18	-1.63	46.0	-8.82	Peak	15.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

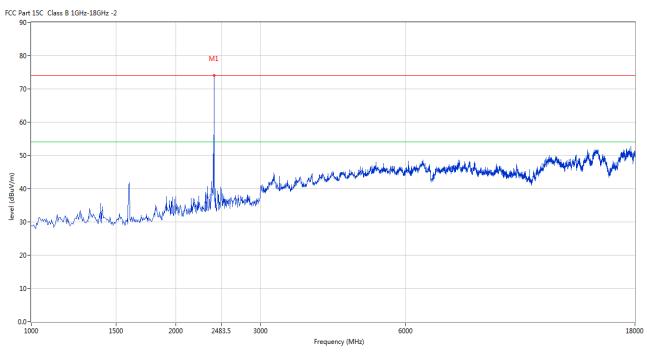
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Test Figures above 1GHz:

Please refer to the following test plots for details:

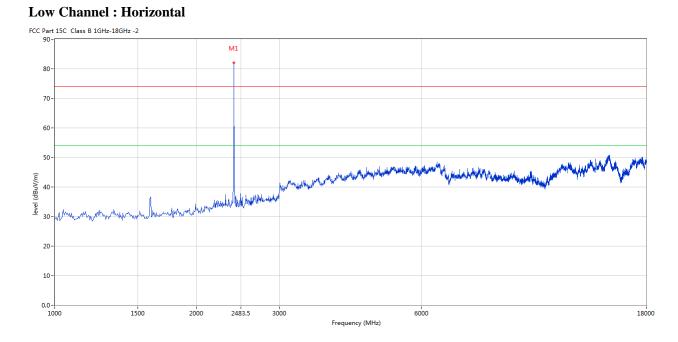
Low Channel: Vertical



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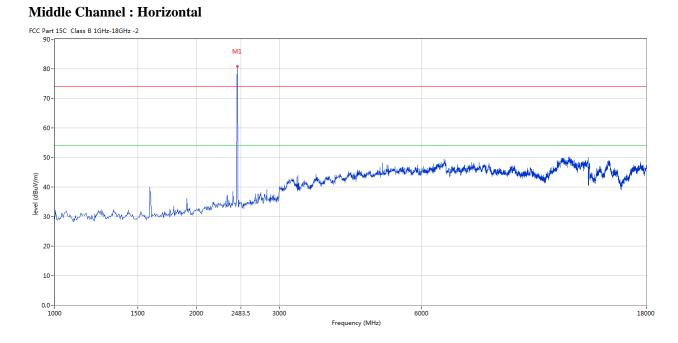




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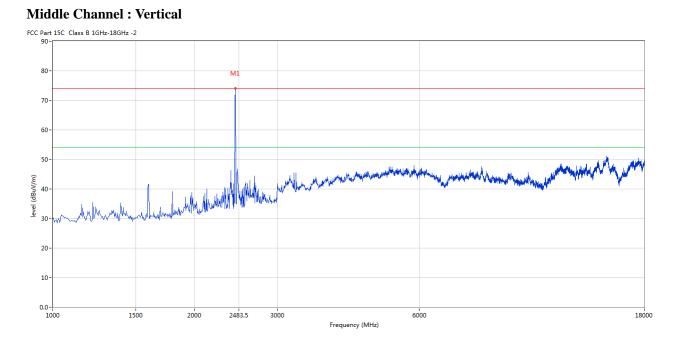




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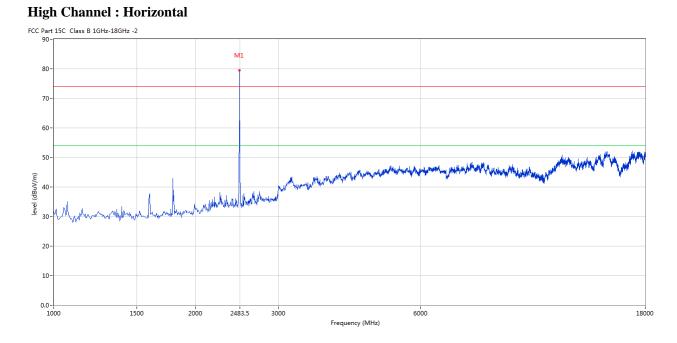




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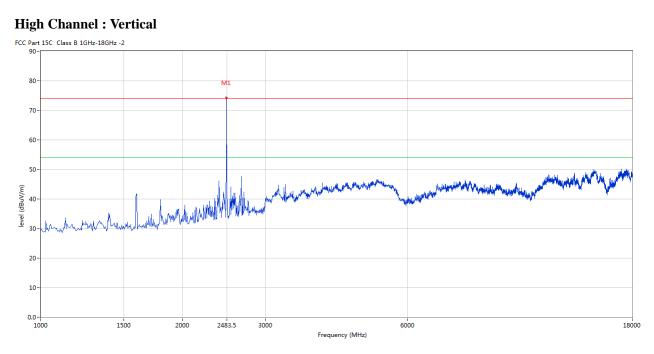




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Note: 1. Level = Reading + AF + Cable - Preamp

2. For the radiated emissions above 18G and Below 30MHz, it is the floor noise.

3. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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adopt any other remedies which may be appropriate.



7.0 20dB Bandwidth Measurement

7.1 Regulation

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

7.2 Limits of 20dB Bandwidth Measurement

N/A

7.3 Test Procedure.

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span =3MHz, RBW =30 kHz, VBW=100 kHz, Sweep = auto Detector function = peak, Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results. 6. Repeat above procedures until all frequencies measured were complete.

7.4 Test Result

Type of Modulation: GFSK

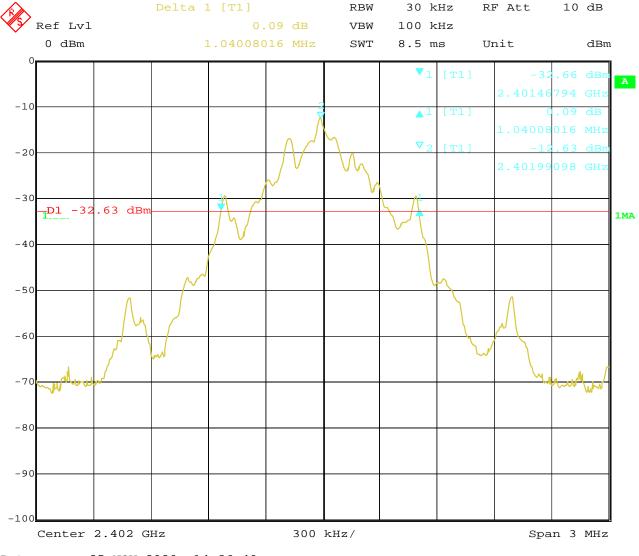
EUT		Tablet POS	Model	HM626R				
Mode	Mode Keep Transmitting		Input Voltage	DC3.8V				
Temperat	perature 24 deg. C,		Humidity	56% RH				
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail				
Low	2402	1040		Pass				
Middle	2441	1034		Pass				
High	2480	1034		Pass				

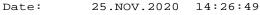
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Test Figure: 1. Condition: Low Channel





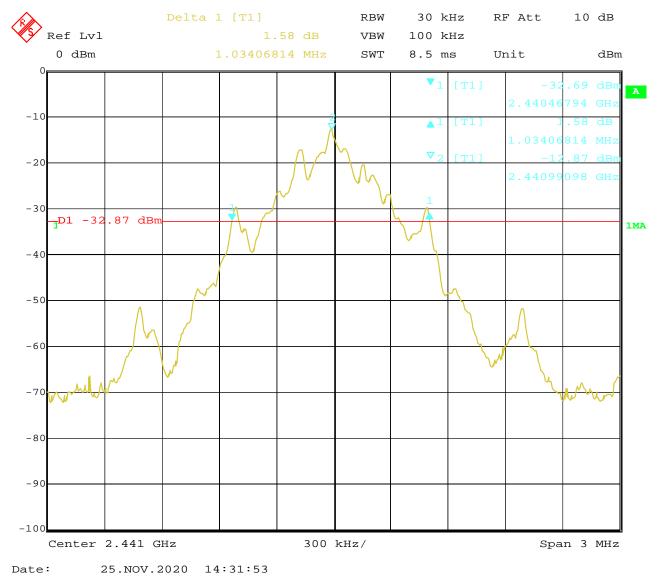
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2. Condition: Middle Channel



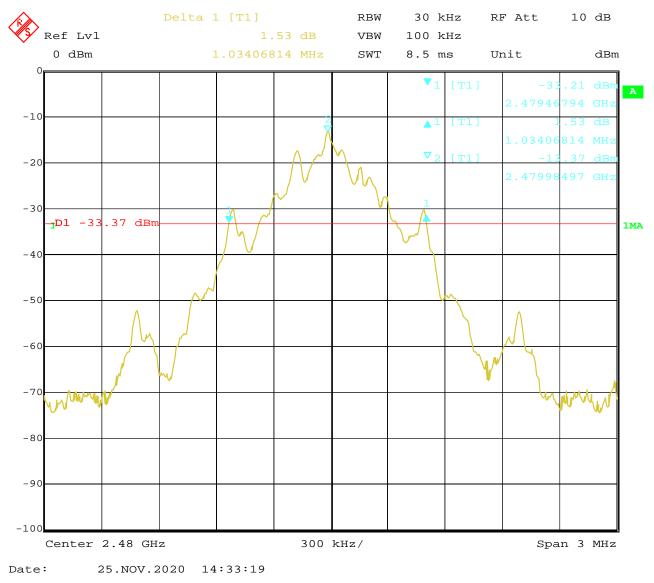
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3. High Channel



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Test Result

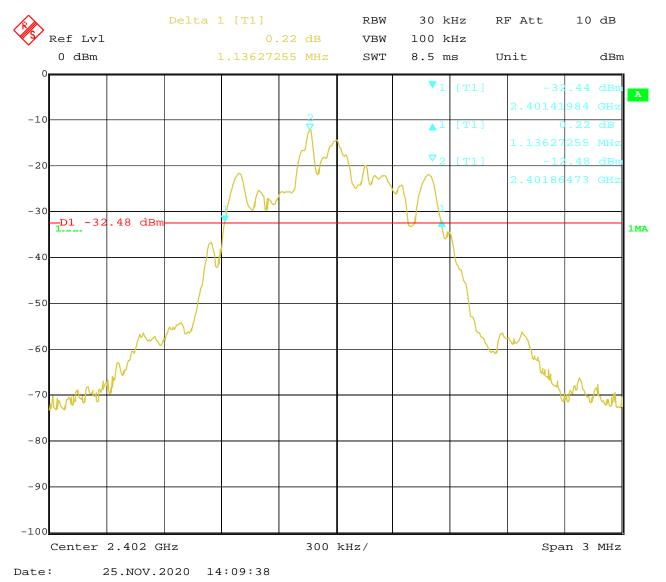
Type of Modulation: Л/4D-QPSK

EUT		Tablet POS	Model	HM626R
Mode		eep Transmitting	Input Voltage	DC3.8V
Temperat	rature 24 deg. C, H		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402 1136			Pass
Middle	2441	2441 1130		Pass
High	2480	2480 1130		Pass

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Test Figure: 1. Condition: Low Channel



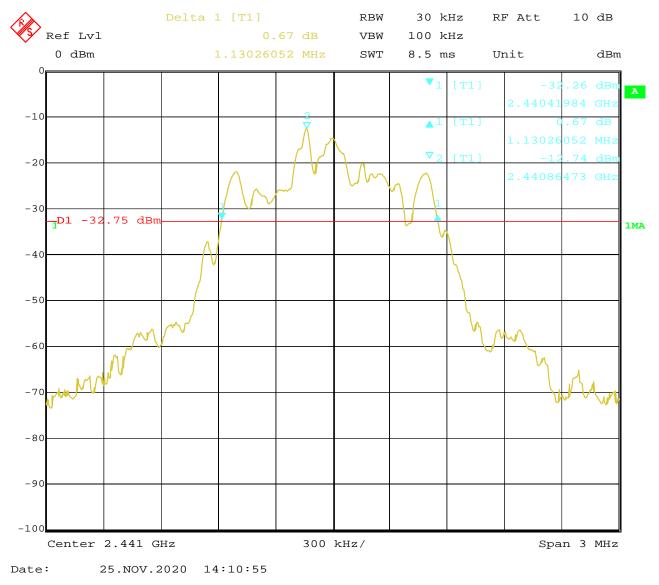
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2. Condition: Middle Channel



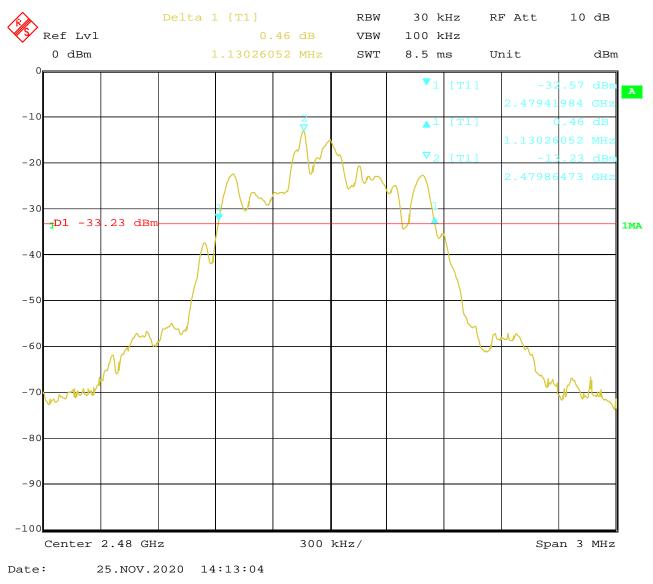
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3. High Channel



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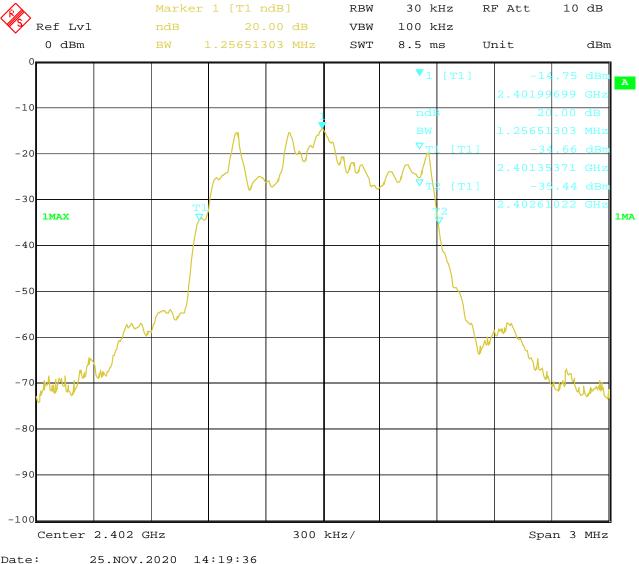
Test Result Type of Modulation: 8DPSK

EUT		Tablet POS	Model	HM626R
Mode	K	eep Transmitting	Input Voltage	DC3.8V
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1257		Pass
Middle	2441 1257			Pass
High	2480	1226		Pass

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Test Figure: 1. Condition: Low Channel



Date: 25.NOV.2020

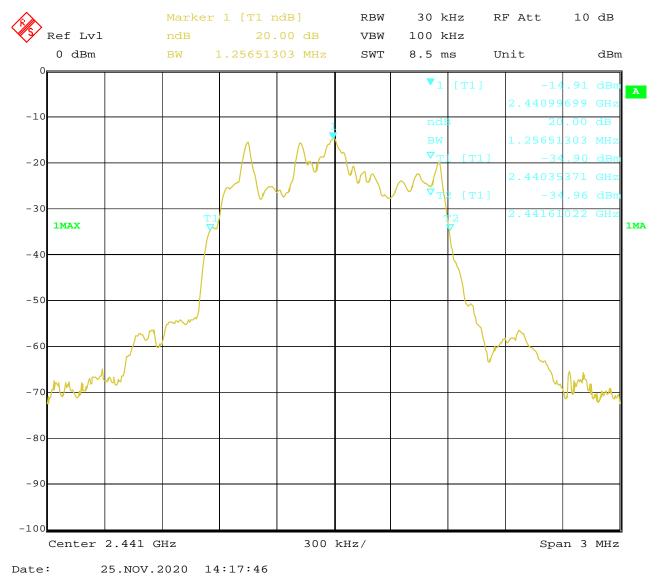
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2. Condition: Middle Channel



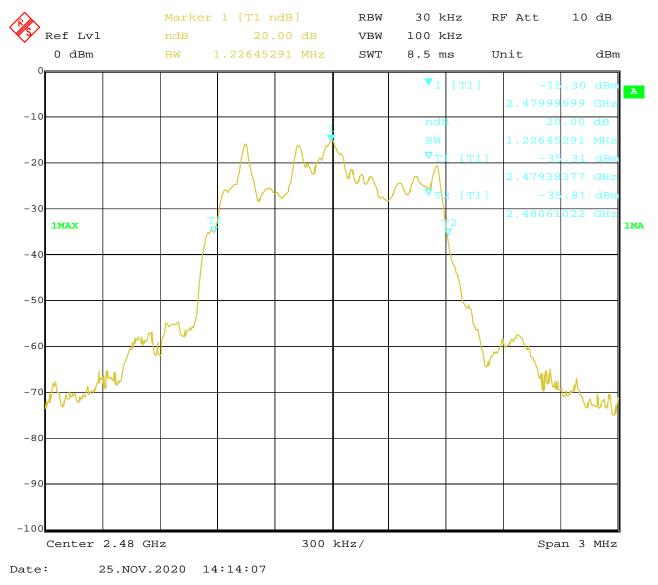
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3. High Channel



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8. Maximum Output Power 8.1 Regulation

According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5MHz band:0.125 watts. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel; RBW > the 20 dB bandwidth of the emission being measured; VBW = 10MHz, RBW=3MHz; Sweep = 60s; Detector function = PK; Trace = max hold

3. Measure the highest amplitude appearing on spectral display and record the level to calculate results.

4. Repeat above procedures until all frequencies measured were complete.

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8.4Test Results Type of Modulation: GFSK

EUT		Tablet POS		Aodel	HM626R		
Mode	K	eep Transmitting	Input Voltage		ep Transmitting Input Voltage		DC3.8V
Temperature	emperature 24 deg. C, Hum		Humidity		56% RH		
Channel	Channel Frequency (MHz)	Max. Power Output (dBm) Peak		Peak Power Limit (dBm)	Pass/ Fail		
Low	2402	-11.99		30	Pass		
Middle	2441	-12.23		30	Pass		
High	2480	-12.70		30	Pass		

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worse case was recorded
- 3. The Peak power was measured

Type of Modulation: Л/4D-QPSK

EUT		Tablet POS			Model	HM626R
Mode		Ke	ep Transmitting	Input	Voltage	DC3.8V
Temperature	ture 24 deg. C, Hu		Hum	idity	56% RH	
Channel	Channel Frequency Max. Power Output (dBm))	Peak Power	Pass/ Fail	
		(MHz)	Peak		Limit (dBm)	
Low		2402	-10.20		30	Pass
Middle		2441	-10.51		30	Pass
High		2480	-10.98		30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

- 2. The worse case was recorded
- 3. The Peak power was measured

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Type of Modulation: 8DPSK

EUT		Tablet POS		Model	HM626R
Mode	Ke	Keep Transmitting		it Voltage	DC3.8V
Temperature	e	24 deg. C,		umidity	56% RH
Channel Channel Frequency		Max. Power Output (dBm)		Peak Power	Pass/ Fail
Channer	(MHz)	Peak		Limit (dBm)	
Low	2402	-10.20		30	Pass
Middle	2441	-10.51		30	Pass
High	2480	-10.98		30	Pass

Note: 1. the result basic equation calculation as follow:

Max. Power Output = Power Reading + Cable loss + Attenuator

2. The worse case was recorded

3. The Peak power was measured

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9. Carrier Frequency Separation

9.1 Regulation

According to §15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Limits of Carrier Frequency Separation

The Maximum Power Spectral Density Measurement is 25kHz or two-thirds of the 20dB bandwidth of the hopping Channel which is great.

9.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span; Video (or Average) Bandwidth (VBW) $\geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold

3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

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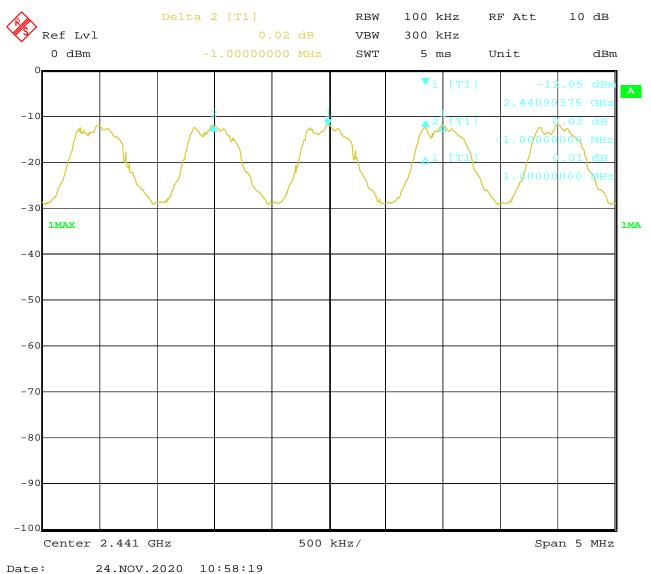


9.4Test Result

Type of Modulation: GFSK

EUT	Tablet POS	Model	-	HM626R	
Mode	Hopping O	Input Voltage		DC3.8V	
Temperature	24 deg. C,	24 deg. C,			56% RH
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	\geq 25 kHz or 2/3	of the 20 dB ban	dwidth	Pass

Test Plots



The report refers only to the sample tested and does not apply to the bulk.

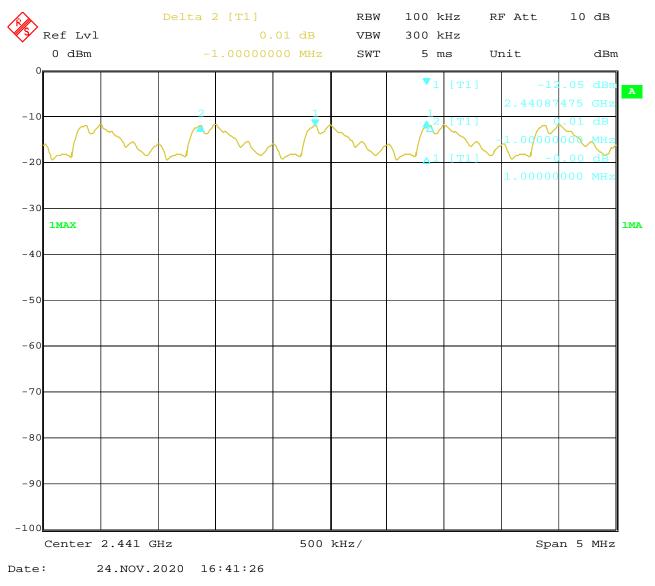
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Type of Modulation: Л/4D-QPSK

EUT	Tablet POS	Model		HM626R	
Mode	Hopping O	Input Voltage		DC3.8V	
Temperature	24 deg. C,		Humidity		56% RH
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	/3 of 20 dB bandw	width	Pass

Test Plots



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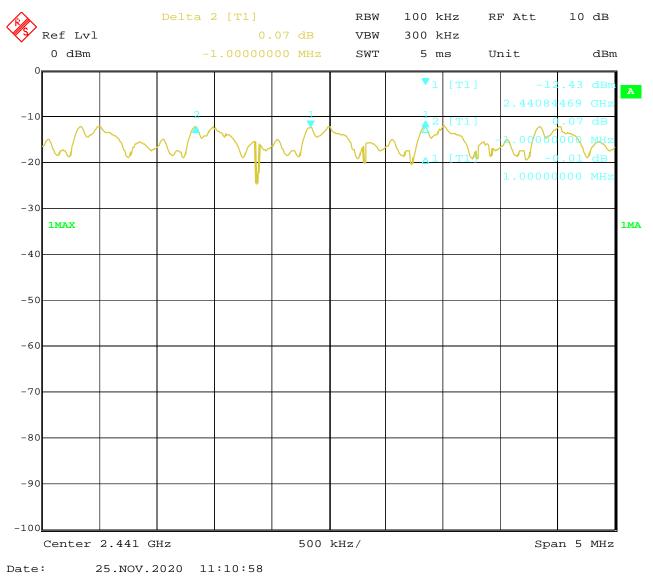
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Type of Modulation: 8DPSK

EUT	Tablet POS	Model		HM626R	
Mode	Hopping O	Input Voltage		DC3.8V	
Temperature	24 deg. C,	Humidity		56% RH	
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandy	width	Pass

Test Plots



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10. Number of Hopping Channels 10.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used. According to §15.247(b)(1), for frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

10.2 Limits of Number of Hopping Channels

The frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

10.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = the frequency band of operation; RBW=100 kHz, VBW=300 kHz; Sweep = auto; Detector function = peak; Trace = max hold

3. Record the number of hopping channels.

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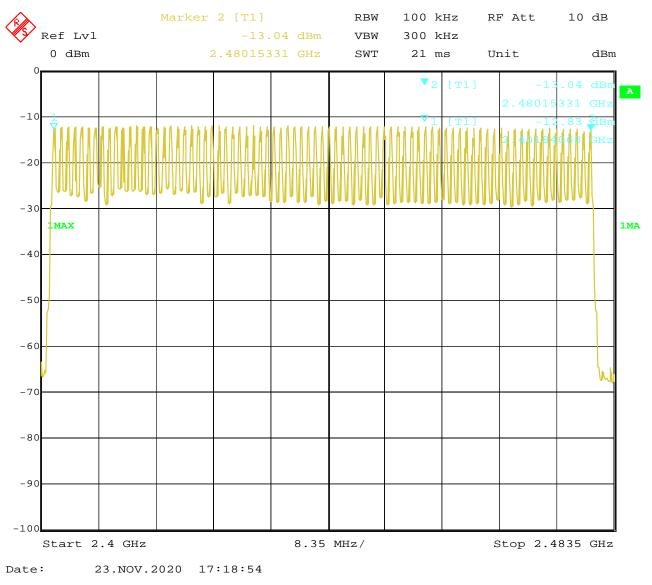


10.4Test Result

Type of Modulation: GFSK

EUT	Т	ablet POS	Model		HM626R	
Mode	Н	opping On	Input Voltage	DC3.8V		
Temperature	2	24 deg. C,	Humidity	56% RH		
Operating Frequency Number of hopping		ping channels	Limit	Pass/ Fail		
2402-2480MHz		79		≥15	Pass	

Test Plot



The report refers only to the sample tested and does not apply to the bulk.

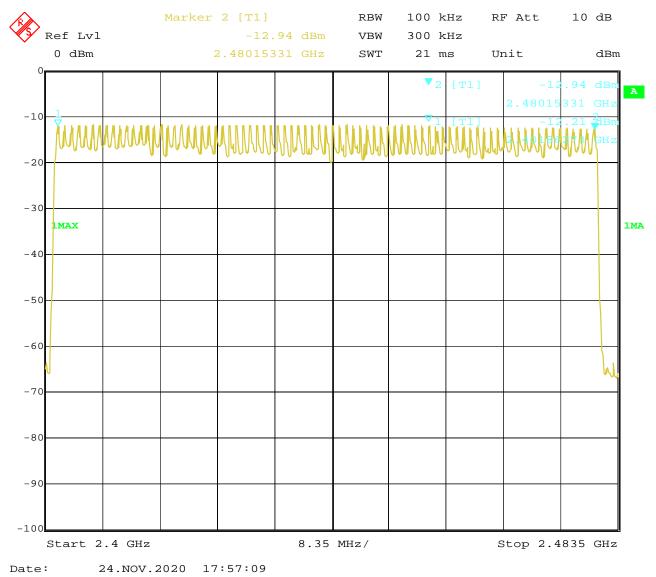
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Type of Modulation: Л/4D-QPSK

EUT	Tablet POS		Model		HM626R	
Mode	Hopping On		Input Voltage		DC3.8V	
Temperature		24 deg. C,		56% RH		
Operating Frequency		Number of hopping channels	Limit		Pass/ Fail	
2402-2480MHz		79	≥15		Pass	

Test Plot



The report refers only to the sample tested and does not apply to the bulk.

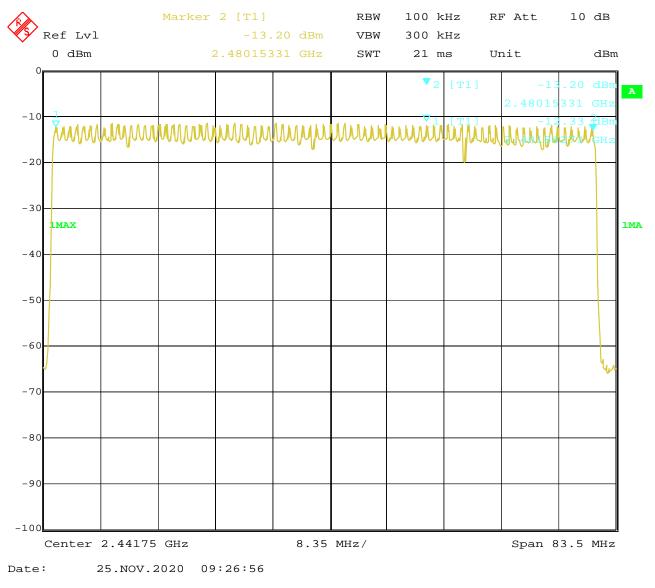
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Type of Modulation: 8DPSK

EUT	Tablet POS		М	odel		HM626R	
Mode	Hopping On		Input Voltage			DC3.8V	
Temperature	24 deg. C,		Humidity		56% RH		
Operating Frequency		Number of hoppin channels	ng	Liı	nit	Pass/ Fail	
2402-2480MHz		79		2	15	Pass	

Test Plot



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11. Time of Occupancy (Dwell Time)

11.1 Regulation

According to §15.247(a)(1)(iii), frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

11.2 Limits of Carrier Frequency Separation

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

2. Set the spectrum analyzer as follows: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW

RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold

3. Measure the dwell time using the marker-delta function.

4. Repeat above procedures until all frequencies measured were complete.

5. Repeat this test for different modes of operation (e.g., data rate, modulation format, etc.), if applicable.

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11.4 Test Result

Type of Modulation: GFSK

EUT	Tabl	Tablet POS		H	IM626R		
Mode	Keep Tr	ansmitting	Input Voltage	Input Voltage DC3.8V			
Temperatur	e 24 c	leg. C,	Humidity	4	56% RH		
Channel	Reading	Hoping	g Rate	Actual	Limit		
	DH5						
Middle	2.926ms	266.667 hop/s		0.312s	0.4s		

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

Note: DH5 was the worst case.

The report refers only to the sample tested and does not apply to the bulk.

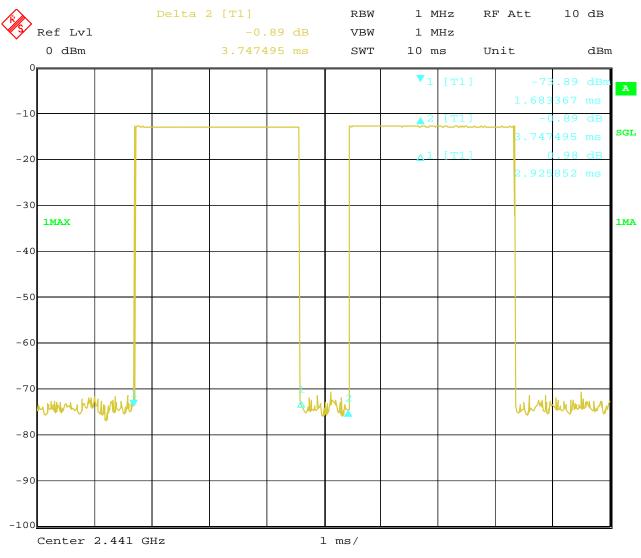
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Test Plots: DH5



25.NOV.2020 14:59:45 Date:

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Test Result

Type of Modulation: Л/4D-QPSK

				-			
EUT	Tablet POS		Model	E	IM626R		
Mode	Keep Tra	ansmitting	Input Voltage	DC3.8V			
Temperature	e 24 d	eg. C,	Humidity	5	56% RH		
Channel	Reading	Hoping	g Rate	Actual	Limit		
	2DH5						
Middle	2.946ms	266.667 hop/s		0.314s	0.4s		

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

Note: 2DH5 was the worst case.

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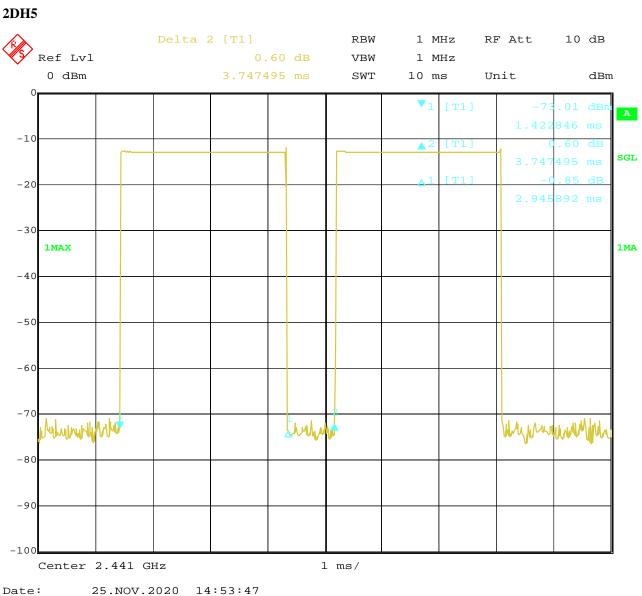
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Test Plots:



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Date:

14:53:47

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Type of Modulation: 8DPSK

EUT	Tablet POS		Model	H	IM626R		
Mode	Keep Tr	ansmitting	Input Voltage	DC3.8V			
Temperature	e 24 d	eg. C,	Humidity	5	56% RH		
Channel	Reading	Hoping	g Rate	Actual	Limit		
	3DH5						
Middle	2.966ms	266.667 hop/s		0.316s	0.4s		

Actual = Reading × (Hopping rate / Number of channels) × Test period, Test period = 0.4 [seconds / channel] × 79 [channel] = 31.6 [seconds] NOTE: The EUT makes worst case 1600 hops per second or 1 time slot has a length of 625μ s with 79 channels.

A DH5 Packet needs 5 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 266.667 hops per second with 79 channels.

A DH3 Packet needs 3 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 400 hops per second with 79 channels.

A DH1 Packet needs 1 time slot for transmitting and 1 time slot for receiving. Then the EUT makes worst case 800 hops per second with 79 channels.

Note: 3DH5 was the worst case.

The report refers only to the sample tested and does not apply to the bulk.

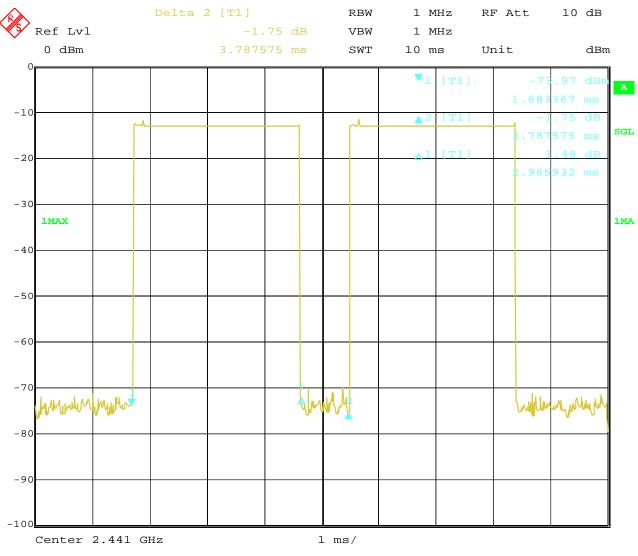
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Test Plots: **3DH5**



Date: 25.NOV.2020 14:49:13

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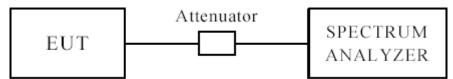
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12 Out of Band Measurement

12.1 Test Setup



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

12.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

12.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. Peak values with RBW=VBW=1MHz and PK detector.

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.2. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Image: Second	Tablet POSTest Mode:Low Channel	Tablet POS	Product:
Test Result: Pass Detector I Test Figure: Marker 1 [T1] RBW 100 kHz RF Att 100 0 dBm 2.40206413 GHz SWT 15 ms Unit 0 -10 VI (T1) 2.40206413 GHz SWT 15 ms Unit 0 -10 VI (T1) 2.40206413 GHz SWT 15 ms Unit 0 0 0.0000 GHz 0.000 GHz	Keeping Transmitting Input Voltage DC3.8V	Keeping Transmitti	Mode
Ref Figure: Marker 1 [T1] RBW 100 kHz RF Att 10 of Ref 0 dBm 2.40206413 GHz SWT 15 ms Unit 0 -10 -11 -12.48 dBm VBW 300 kHz 2.40204413 GHz 2.40204413 GHz -10 -10 -11 <td>24 deg. CHumidity56% RH</td> <td>24 deg. C</td> <td>Temperature</td>	24 deg. CHumidity56% RH	24 deg. C	Temperature
Marker 1 [T1] RBW 100 kHz RF Att 10 cm Ref Lv1 -12.48 dBm VBW 300 kHz 0 dBm 2.40206413 GHz SWT 15 ms Unit 0 Image: Comparison of the state of the s	Pass Detector PK	Pass	Test Result:
Ref Lvl -12.48 dBm VBW 300 kHz 0 dBm 2.40206413 GHz SWT 15 ms Unit -10 -11 -12.48 dBm VBW 300 kHz -10 -11 -12.48 dBm VBW 300 kHz -10 -11 -12.48 dBm VBW 15 ms Unit -10 -12.40206413 GHz SWT 15 ms Unit 0.48006413 GHz -10 -12.4006000 -11 -12.48006000 0.40000000 0.4000000 0.4000000 <			Fest Figure:
0 dBm 2.40206413 GHz SWT 15 ms Unit	r 1 [T1] RBW 100 kHz RF Att 10 dB	Marker 1 [T1]	R A
0 V1 [T1] -12.48 -10 2.4006413 2.40006413 -20 V2 [T1] V6 .90 -20 V3 [T1] 65.15 -30 2.3900000 2.3900000 -30 1MAX 1 -40 3 4 -50 3 4 -60 3 4 -70 3 4 -80 3 4	-12.48 dBm VBW 300 kHz	-12.48 dBm	🚺 Ref Lvl
-10 -10 -20 -20 -20 -30 -30 -30 -30 -30 -30 -30 -3	2.40206413 GHz SWT 15 ms Unit dBm	2.40206413 GHz	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			0
-20 -20 -30 -30 -30 -30 -30 -30 -30 -3	2.40206413 GHz		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			-10
-20 -30 -30 -40 -50 -60 -70 -70 -80 -80			
-30 -40 -40 -50 -60 -70 -80 -80			-20
-40 -40 -50 -60 -70 -80 -80	2.39000000 GHz		
-40 -50 -60 -70 -80			-30
-50 -60 -70 -80 -80	12		1MAX
-50 -60 -70 -70 -80			4.0
-60 -70 -70 -80			-40
-60 -70 -70 -80			
-70 -80 -80			-50
-70 -80 -80			
-80			-60
-80	$_3$ $_{\rm Whu}$ $N_{\rm H}^2$ $(\Lambda_{\rm H})$		
			-70
	mar on Unger la Manna marker that	where the second allowed letters	a marker low
			-80
-90			
-90			
			-90
-100	6 MHz/ Stop 2.41 GHz		-100

The report refers only to the sample tested and does not apply to the bulk.

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:		Tablet POS		Test Mode:	High Channel
Mode	Ke	eping Transmitting		Input Voltage	DC3.8V
Temperature		24 deg. C,		Humidity	56% RH
Test Result:		Pass		Detector	РК
Test Figure:					
<u>k</u>	Marker	1 [T1]	RBW	100 kHz RF	Att 10 dB
Ref Lvl		-12.92 dBm	VBW	300 kHz	
0 dBm	2	2.47997996 GHz	SWT	7.5 ms Uni	t dBm
0				▼1 [T1]	-12.92 dBm
					.47997996 GHz
-10				▼2 [T1]	-68.28 dBm
				2	.48350000 GHz
-20					— <u> </u>
-30		/			_]
1MAX					1MA
-40		┟┦──↓────			
-50					
50		U U			
-60					
marchan .	Number		MARINA	manne	
-70		- Mar Inder		- Munul	Ammund
					rounder
-80					—— — —— —
-90					
-100					
Start 2.4	7 GHz	3 M	1Hz/		Stop 2.5 GHz
Date: 25.	NOV.2020 13	:49:40			

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Type of Modulation: GFSK

Band Edge Test Result 12.4

Product:	Tablet POS		Test Mode:	Hopping mode
Mode	Hopping On		Input Voltage	DC3.8V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	РК
est Figure:				
	Marker 1 [T1]	RBW	100 kHz RF A	Att 10 dB
S Ref Lvl	-12.51 dBm	VBW	300 kHz	
0 dBm	2.40507014 GHz	SWT	15 ms Unit	dBm
0			▼1 [T1]	-12.51 dBm
				40507014 GHz
-10			▼2 [T1]	-66 42 dBm
				40000000 @Hz
-20			▼ _{3 [T1]}	<u>73.01.dBo</u>
			2.	390000000
-30				1M
-40				
-40				
5.0				
-50				
-60				
- 00			winderskiller	2
-70			- JVA	~
mannen	and down the mental the second	ubelenter	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-80				
-90				
100				
Start 2.35	GHz 6	MHz/	S	top 2.41 GHz

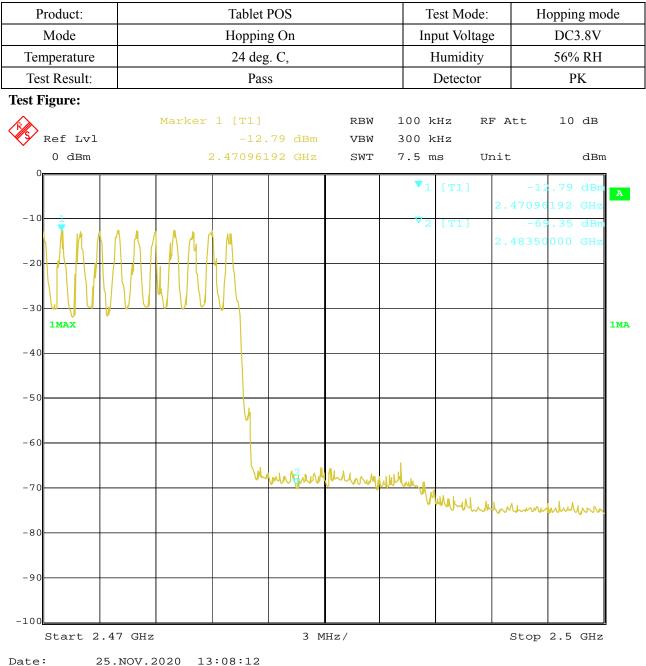
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Type of Modulation: GFSK





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Type of Modulation: Л/4D-QPSK

12.4 Out of Band Test Result

Product:		Tablet P	OS		Test N	lode:	L	Low Channel			
Mode	K	eeping Tran	smitting		Input	Voltage		DC3.8V			
Temperature		24 deg.	С		Humic	lity					
Test Result:		Pass			Detect	or					
Test Figure:											
(A)	Marker	1 [T1]		RBW	100 k	Hz F	RF Att	10 dB			
Ref Lvl			.77 dBm	VBW	300 k						
0 dBm		2.401943	389 GHz	SWT	15 n	າຣ ປັ	Jnit	dBm	L		
0					v ₁	[T1]	-1	2.77 dBm			
							2.4019	4389 GHz	A		
-10					₹2	[T1]	<u>1</u> 6	8.79 dBm			
							2.4000	0000 GHz			
-20					⊽ ₃	[T1]	- 7	2.21 dBm			
							2.3900	0000 GHz			
-30											
1MAX									1MA		
-40											
-50											
-60											
					2.11	Manufall		Munkur			
-70					ind with the	- VI					
Montpolie	human	Monoral	Munin	www.	NUM						
-80	· · · · · · · · · · · · · · · · · · ·										
-90											
100											
-100 Start 2.	35 GHz	1	6 М	Hz/			Stop	2.41 GHz	1		
		3:40:12					T-				

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Type of Modulation: Л/4D-QPSK

Band Edge Test Result 12.4

Product:		Tablet P	OS		Tes	st Mode:	H	High Channel		
Mode	Kee	eping Tran	smitting		Inpu	ut Voltage		DC3.8V		
Temperature		24 deg.	С,		H	umidity		56% RH		
Test Result:		Pass			D	etector		РК		
Cest Figure:										
	Marker	1 [T1]		RBW	100 k	Hz RI	F Att	10 dB		
Ref Lvl		-13.	18 dBm	VBW	300 k	Hz				
0 dBm	2	2.479859	972 GHz	SWT	7.5 m	ns Ur	nit	dBm	n	
0					v ₁	[T1]	-13	3.18 dBm]	
							2.47985	972 GHz	A	
-10		1			▼2	[T1]	-6'			
		A C					2.48350	000 GHz		
-20										
-30										
1MAX									1 M	
-40										
-50										
6.0										
-60								Mulan		
-70	ment a show	لرجه	Mr. Zwal	man	maring					
-70					V	Mynum				
							many	Willow		
-80									-	
-90										
-100									ļ	
Start 2.47 (GHz		3 M	IHz/			Stop	2.5 GHz		

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Type of Modulation: Л/4D-QPSK

Out of Band Test Result 12.4

Product:	Tablet	Tablet POSTest Mod					
Mode	Hoppin	g On		Inpu	t Voltage	DC3.8V	
Temperature	24 deg	, C,		Hı	umidity	56% RH	
Test Result:	Pas				etector	РК	
est Figure:				I		I	
	Marker 1 [T1]		RBW	100 kH	z RFA	tt 10 dB	
Ref Lvl	-12.	41 dBm	VBW	300 kH	z		
0 dBm	2.403026	05 GHz	SWT	15 ms	Unit	dBm	
0				V 1 [T1]	-12.41 dBm	
				± 1		40302605 GHz	
-10				₹2 [T1]		
					2.4	400000 GHz	
-20				▼3 [T1]	-112.22 ast	
					2.3	39000000 GHz	
-30							
1MAX						11	
-40							
- 5 0							
-60							
					unun	2	
-70					with the a	~	
mununn	merer Many carrow making merer	mound	mm	- White and			
-80							
-90							
-100							
Start 2.35	GHz	6 MHz/			S	top 2.41 GHz	

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Type of Modulation: Л/4D-QPSK

12.4 Out of Band Test Result	12.4	Out of Band Test Result
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Product:	Tablet POSTest Mode:					
Mode	Hopping On	Ι	nput Voltage	DC3.8V		
Temperature	24 deg. C,	I	Humidity	56% RH		
Test Result:	Pass		Detector	РК		
Test Figure:		<u>.</u>				
K	Marker 1 [T1]	RBW 100) kHz RF A	tt 10 dB		
Ref Lvl	-13.02 dBm	VBW 300) kHz			
0 dBm	2.47084168 GHz	SWT 7.5	5 ms Unit	dBm		
			1 [T1]	-13.02 dBm		
			2.4	17084168 GHz		
			▼2 [T1]	-68.55 dBm		
-20			2.4	18350000 GHz		
-30				11/2		
-40						
-50						
50						
-60						
	ynaver 31 m	mary purchas	boo Weberlanda			
-70			Weller and			
				- Manual Contractor		
-80						
-90						
-100	Hz 3 M			Stop 2.5 GHz		

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Type of Modulation: 8DPSK



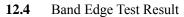
Product:		Tablet POS		Test M	lode:	Low Channe			
Mode	Kee	eping Transmitti	ng	Input V	Voltage	e DC3.8V			
Temperature		24 deg. C		Humic	lity	56% RH			
Test Result:		Pass		Detect	or	РК			
Test Figure:					·				
R A	Marker 1	[T1]	RBW	100 kHz	RF At	t 10 dB			
💉 Ref Lvl		-12.63 dE	3m VBW	300 kHz					
0 dBm	2.	40206413 GH	Iz SWT	15 ms	Unit	dBn	n		
0				▼1 [1	1]	-12.63 dBm			
						0206 <mark>413 GHz</mark>	A		
-10				₹2 [1	1]	$\frac{1}{68.35}$ dBm			
					2.4	0 <mark>00000 GHz</mark>			
-20				∇ 3 [1	1]	-71.39 dBm			
					2.3	9 <mark>000000 GHz</mark>			
- 30									
1MAX							1M		
-40							1		
-50									
-60									
							ļ		
-70				3		Myaman			
- 70				while					
muldunpublic	July unin	Unerter the selden	mahan	W ^W					
-70 <u>100000000000000000000000000000000000</u>									
-90			_				-		
-100									
Start 2.35	CH ₇	F	5 MHz/		9+	op 2.41 GHz	_		

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Type of Modulation: 8DPSK



Product:		OS		Te	st Mode:	H	High Channel		
Mode	Kee	eping Tran	smitting		Inp	ut Voltage		DC3.8V	
Temperature		24 deg.	С,		Н	lumidity		56% RH	
Test Result:		Pass			Γ	Detector		РК	
Test Figure:									
Ref Lvl	Marker	-13.	.26 dBm	RBW VBW	100 k 300 k	CHz	F Att	10 dB	
0 dBm	2	2.480040	08 GHz	SWT	7.5 n	ns U	nit	dBm	L
10					▼1	[T1]	-13 2.48004	.26 dBm 008 GHz	A
-10					v 2	[T1]	-69 2.48350	.43 dBm 000 GHz	
-20									
-30 1MAX									1M
-40									
-50									
-60 -70	Manuful		My 2 mm	white	unnhe	4			
						- myle	manne	mundullur	
-80									
-90									
-100							Stop		ļ

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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Tablet POS		Test M	ode:	Hopping mode
Mode	Hopping On		Input Vo	oltage	DC3.8V
Temperature	24 deg. C,		Humic	lity	56% RH
Test Result:	Pass		Detec	tor	РК
est Figure:					
	Marker 1 [T1]	RBW	100 kHz	RF Att	: 10 dB
🖌 Ref Lvl	-12.67 dB	m VBW	300 kHz		
0 dBm	2.41000000 GH	z SWT	15 ms	Unit	dBm
0			▼1 [T1]		-12.67 dBm
			± (± ± .		000000 GHz
-10			▼2 [T1]		-65.89 dBr
				2.40	000000 GHz
-20			▼ ₃ [_T1]	1	<u>-69,94,1380</u>
				2.39	ооüddol Gн¥
-30					
1MAX					1M
-40					
- 50					
50					
-60				2	
			3 Myrth	Jun Jun	
-70			1 ml/m		
man more	myumanyumanyuhankak	mounter	<u></u>		
- 8 0					
-90					
100					
Start 2.35	GHz 6	MHz/		Sto	p 2.41 GHz

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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

-50

-60

-70

-80

-90

-100

Date:

Start 2.47 GHz

Product:		Table	t POS			,	Test Mo	ode:	H	loppi	ng m	ode
Mode		Hoppi	ng On			Inp	out Volt	age	DC3.8V			
Temperature		24 de	eg. C,			Hu	midity			56%	% RH	
Test Result:		Pa	ISS				Detect	tor		I	PK	
Test Figure:												
Rest of the second seco	Marker	1 [T1]		RBW	10	0 k	Hz	RF At	t	10	dB	
Ref Lvl		-12	.69 dBm	VBW		0 k						
0 dBm	2	2.471023	204 GHz	SWT	7.	5 m	s	Unit			dBm	
0						v 1	[T1]		-12	.69	dBm	A
								2.4	7102	204	GHz	Ω
-10	al 14 44 14	48				2	[T1]		-65	.30	dBm	
M'M'M'M'	where where	Wh						2.4	8350		GHz	
-20												
-30												
1MAX												1MA
-40												

N/N/ 4.

IL

3 MHz/

Tmar

Stop 2.5 GHz

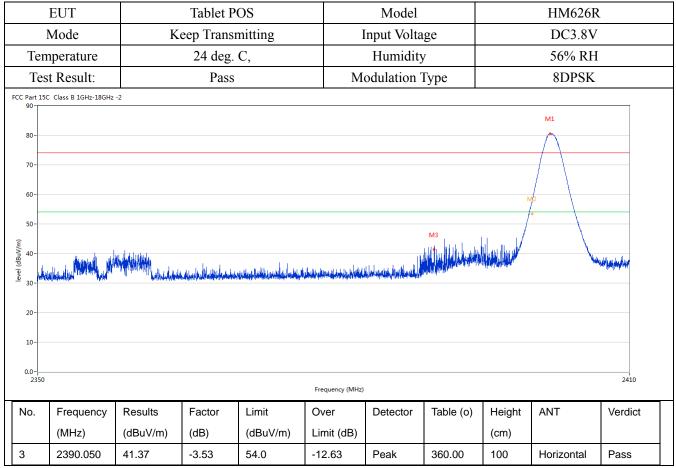
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12.4 **Restrict Band Measurement**

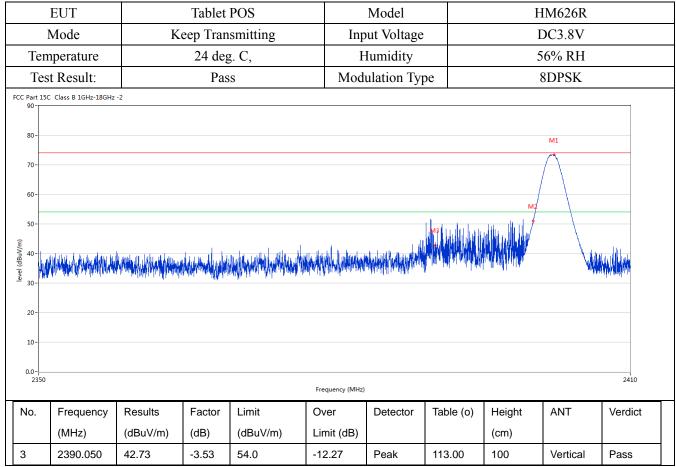


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12.4	Restrict Band Measurement
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12.4 **Restrict Band Measurement**

	EUT		Tablet	POS		Model			HM626	R
	Mode	K	eep Tran	smitting		Input Volt	age		DC3.8V	V
Ter	mperature		24 deg	g. C,		Humidit	ty		56% RI	H
Tes	est Result:		Pas	SS	Ν	Iodulation	Туре		8DPSK	X
CC Part 15 90-	5C Class B 1GHz-18GHz	-2						•		
90-										
80-										
70-										
/0-										
60-			_/	-						
-										
50-										
	. 11									
- 04 (dBu//m)	han a far an	Magazitet alla bis source			man and the second s	handra an International	ulistosipet, og al filmer p	dan waladi waladi waladi wa	estates to state the state of the	uthiched allichedes
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(W) 40- (B) 30- 20- 10-		magnifiberikkinnin			2483.5 Frequency (MHz)		international and the state	den weleden de blede	ud ou un add an	2500
(W) 40		Results	Factor	Limit	2483.5		Table (o)	Height	ANT	
(E) 40 - 30 - 20 - 10 - 0.0 - 2470	0	L - L broll s aroun	Factor (dB)	1	2483.5 Frequency (MHz)					2500

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Pastrict Band Massurament

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EUT	Table	t POS	Model			HM626F	R
Mode		nsmitting	Input Volt			DC3.8V	
Temperature		eg. C,	Humidi	-		56% RH	
Test Result:		iss	Modulation			8DPSK	
C Part 15C Class B 1GHz-18GH:		155	Wiodulation	Type		ODI SK	-
90-							
80-							
		1 American					
70-	/						
60 -	/						
		\					
	1						
50-							
			hal an allilate a la calta a taraita ta di	1		antala or karalla	l troug block
	Will will a grant with an						
				www.www.www.	Ngh Antha Anta An		Manafalana
40-					Alph Anthony and An		
40- 30-				un and an and a second s	hidi andola ka da	delana ang katalah dalah	AANAA MAA
40- 30-					hidi anta a si a	A Hadaa A Anta A	
40- 30- 20- 10-				and the second	hidi andala da an		
40- 30- 20-		248:	3.5 Frequency (MHz)		hidi antida and ad a		2500
40- 30- 20- 10-		248					2500
40	Results Factor		Frequency (MHz)	Table (o)	Height	ANT	2500 Verdict
40- 30- 20- 10- 2470 No. Frequency		Limit C	Frequency (MHz) Over Limit Detector	Table (o)	Height	ANT	
40	Results Factor (dBuV/m) (dB) 39.58 -3.57	Limit C (dBuV/m) (r	Frequency (MHz)	Table (o)	Height (cm)	ANT	

Note: 1. For Restricted band test, All modulation mode was tested and only the worst case was reported. 8DPSK was the worst case.

2. The measured PK value less than the AV limit, no necessary to take down the AV measurement result.

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13.0 Antenna Requirement

13.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

13.2 Antenna Connected constructions Integral antenna used. The gain of the antennas is 2.0dBi.

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14.0 FCC ID Label

FCC ID: GQK-HM626

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



The report refers only to the sample tested and does not apply to the bulk.

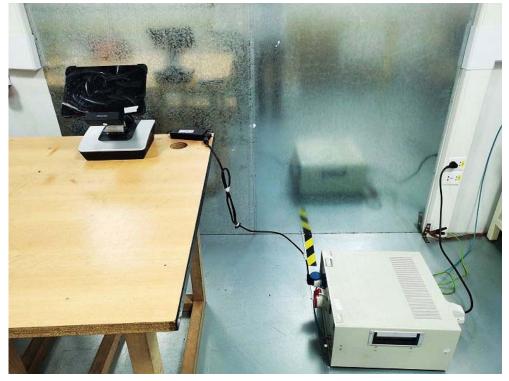
This report is issued in confidence to the client and it will be strictly treated as such by the SHENZHEN TIMEWAY TESTING LABORATORIES. It may not be reproduced rather in its entirety or in part and it may not be used for adverting. The client to whom the report is issued may, however, show or send it . or a certified copy there of prepared by the SHENZHEN TIMEWAY TESTING LABORATORIES. to his customer. Supplier or others persons directly concerned. SHENZHEN TIMEWAY TESTING LABORATORIES. will not, without the consent of the client enter into any discussion of correspondence with any third party concerning the contents of the report.

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15.0 Photo of testing

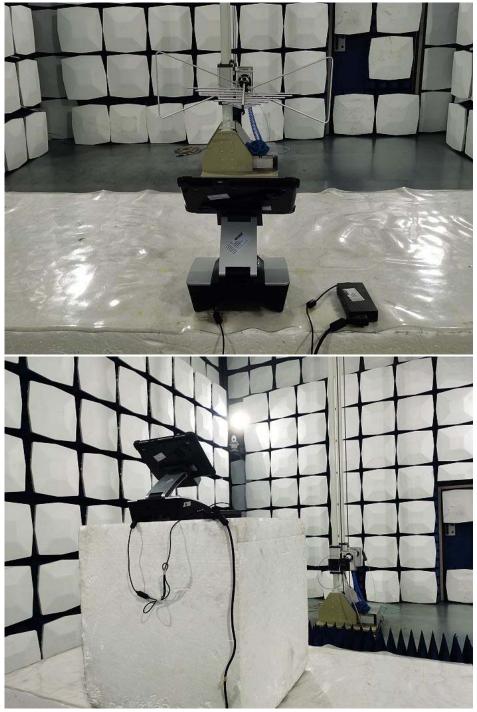
Conducted Emission Test Setup:



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Radiated Emission Test Setup:



Photographs – EUT

Please refer test report TW2011170-01E

--End of Report--

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