

Report No.: File Reference No.: TW2012217-02E 2021-01-16

Applicant: Qingdao Hisense Intelligent Commercial System Co., Ltd.

Product: Tablet POS

Model No.: HM628N, HM628

Trademark: N/A

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



Dated:

January 16, 2021

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, China
Telephone:	
Fax:	

1.3 Description of EUT

Product:	Tablet POS	
Manufacturer:	Qingdao Hisense Intelligent Commercial System Co., Ltd.	
Address:	399 Songling Road, Laoshan, Qingdao, China	
Brand Name:	N/A	
Model Number:	HM628N	
Additional Model Nur	nber: HM628	
Hardware Version: WT	TR288C1	
Software Version: HX-JX-10-GLKC2R100		
Type of Modulation	GFSK, $JI/4D$ -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 1.48dBi (get from the antenna	
	specification provided the applicant)	
Input Voltage:	DC12V	
Battey:	DC7.6V, 55000mAh 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 2020-12-17 to 2021-01-16
- 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

The sample tested by



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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	2021-01-06	2022-01-05

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

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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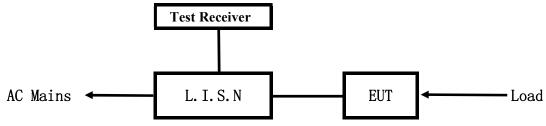
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5. **Power Line Conducted Emission Test**

5.1 Schematics of the test

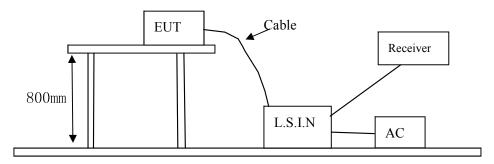


EUT: Equipment Under Test

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	HM628N,	GQK-HM628N
Tablet POS	System Co., Ltd.	HM628	OQK-IIM028IN

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

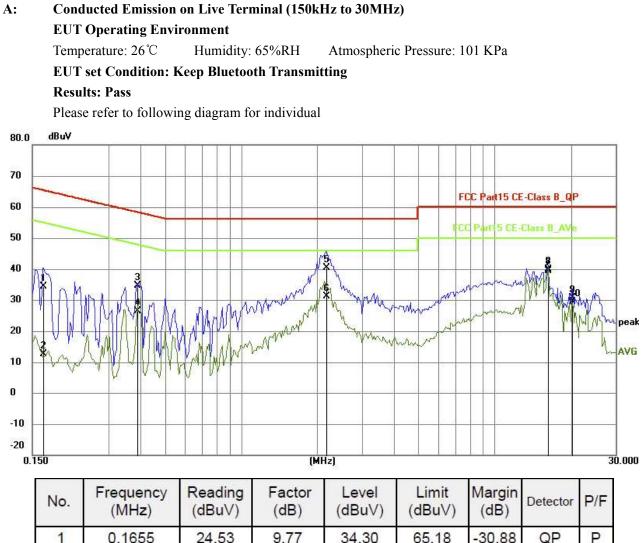
The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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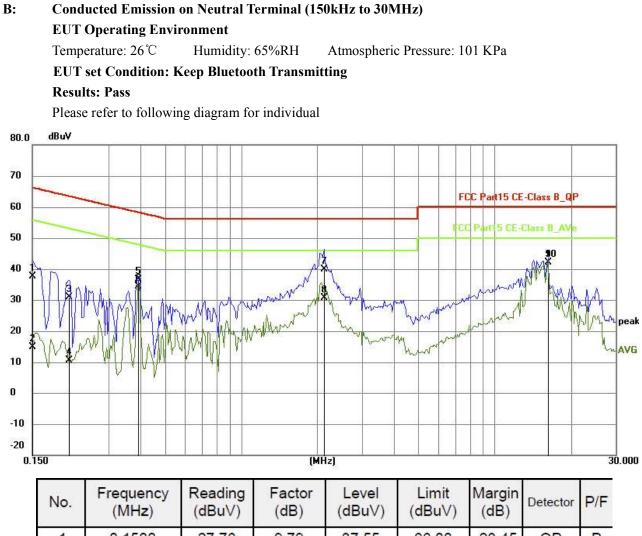
	(IVIHZ)	(aBuv)	(aB)	(aBuv)	(aBuv)	(aB)		
1	0.1655	24.53	9.77	34.30	65.18	-30.88	QP	Ρ
2	0.1655	2.97	9.77	12.74	55.18	-42.44	AVG	Ρ
3	0.3879	24.94	9.76	34.70	58.11	-23.41	QP	Ρ
4	0.3879	16.52	9.76	26.28	48.11	-21.83	AVG	Ρ
5	2.1624	30.46	9.81	40.27	56.00	-15.73	QP	Ρ
6	2.1624	21.20	9.81	31.01	46.00	-14.99	AVG	Ρ
7	16.2288	28.88	10.45	39. <mark>3</mark> 3	60.00	-20.67	QP	Ρ
8	16.2288	28.73	10.45	39. <mark>1</mark> 8	50.00	-10.82	AVG	Ρ
9	20.2575	19.96	10.70	30.66	60.00	-29.34	QP	Ρ
10	20.2575	18.64	10.70	29.34	50.00	-20.66	AVG	Ρ

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No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	P/F
1	0.1500	27.76	9.79	37.55	66.00	-28.45	QP	Ρ
2	0.1500	5. 1 7	9.79	14.96	56.00	-41.04	AVG	Ρ
3	0.2085	21.04	9.75	30.79	63.26	-32.47	QP	Ρ
4	0.2085	0.84	9.75	10.59	53.26	-42.67	AVG	Ρ
5	0.3918	26.82	9.76	36.58	58.03	-21.45	QP	Ρ
6	0.3918	24.71	9.76	34.47	48.03	-13.56	AVG	Ρ
7	2.1234	30.1 <mark>8</mark>	9.81	39.99	56.00	-16.01	QP	Ρ
8	2.1234	20.85	9.81	30.66	46.00	-15.34	AVG	Ρ
9	16.2288	31.60	10.45	42.05	60.00	-17.95	QP	Ρ
10	16.2288	31.53	10.45	41.98	50.00	-8.02	AVG	Ρ

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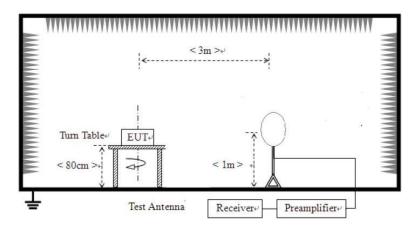


6 Radiated Emission Test

- 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



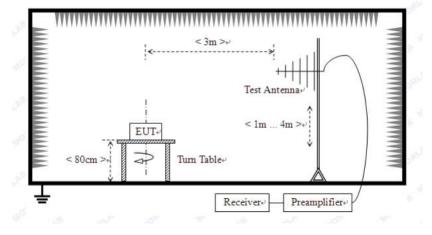
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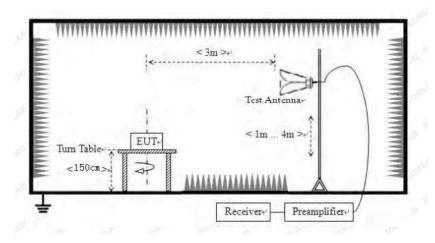
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For radiated emissions from 30MHz to1GHz



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

Pass

Results:

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

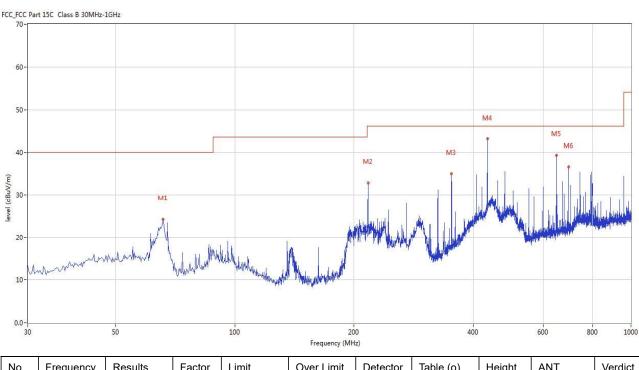
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H

Test Figure:



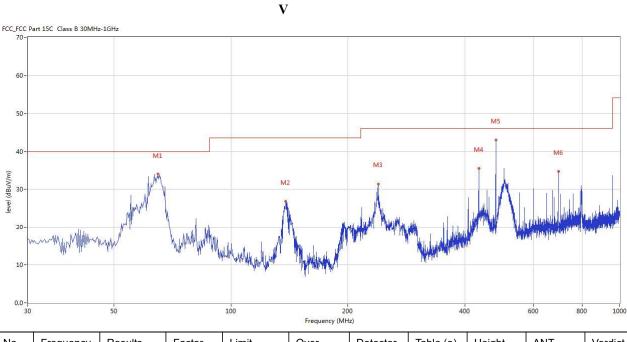
No.	Frequency	Results	Factor	Limit	Over Limit	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)	(dB)	(dBuV/m)	(dB)			(cm)		
1	65.881	24.24	-13.87	40.0	-15.76	Peak	139.00	100	Horizontal	Pass
2	216.921	32.77	-13.51	46.0	-13.23	Peak	39.00	100	Horizontal	Pass
3	352.444	34.94	-9.46	46.0	-11.06	Peak	360.00	200	Horizontal	Pass
4	433.904	43.09	-8.03	46.0	-2.91	Peak	0.00	200	Horizontal	Pass
5	647.978	39.24	-4.59	46.0	-6.76	Peak	29.00	100	Horizontal	Pass
6	695.981	36.57	-4.14	46.0	-9.43	Peak	32.00	100	Horizontal	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	64.911	33.95	-13.55	40.0	-6.05	Peak	347.00	100	Vertical	Pass
2	138.128	26.71	-17.29	43.5	-16.79	Peak	360.00	100	Vertical	Pass
3	239.468	31.36	-12.36	46.0	-14.64	Peak	355.00	100	Vertical	Pass
4	433.904	35.41	-8.03	46.0	-10.59	Peak	350.00	100	Vertical	Pass
5	479.968	43.01	-7.40	46.0	-2.99	Peak	337.00	100	Vertical	Pass
6	695.981	34.63	-4.14	46.0	-11.37	Peak	352.00	100	Vertical	Pass

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

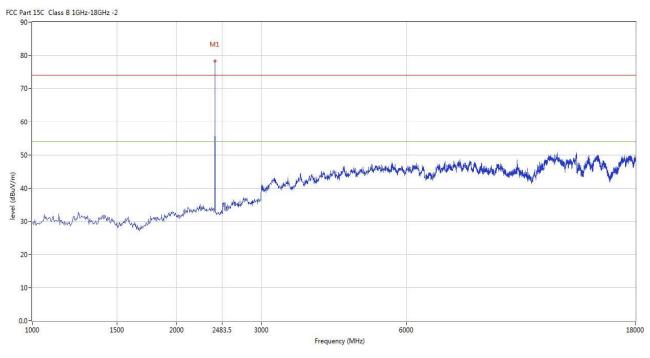
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Test Figures above 1GHz:

Please refer to the following test plots for details:

Low Channel: Vertical

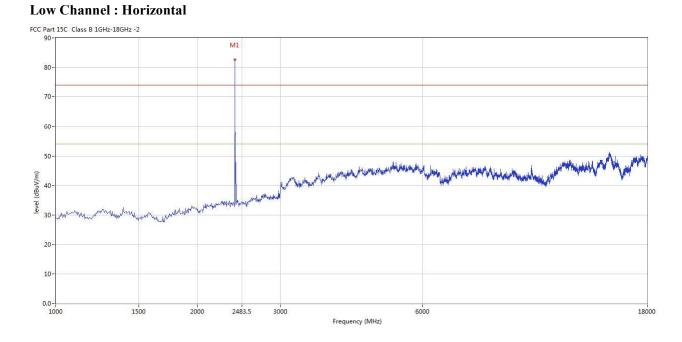


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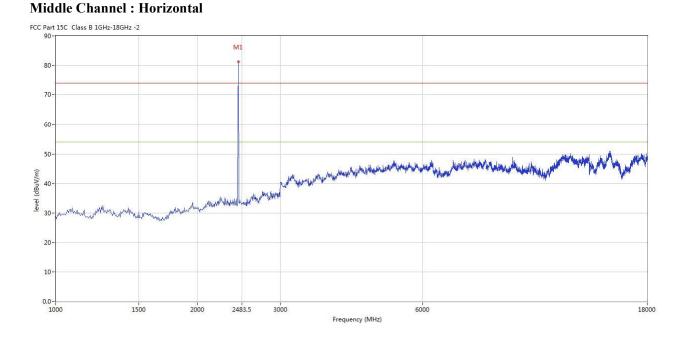




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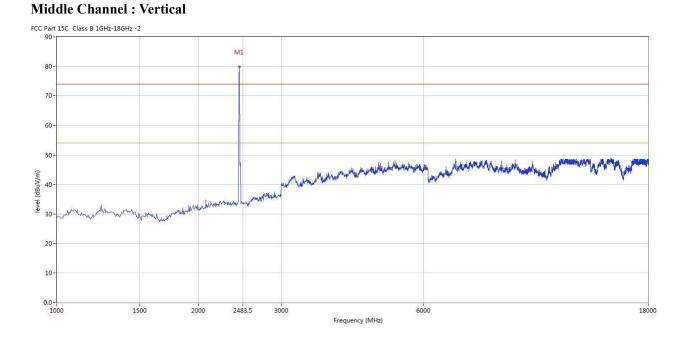




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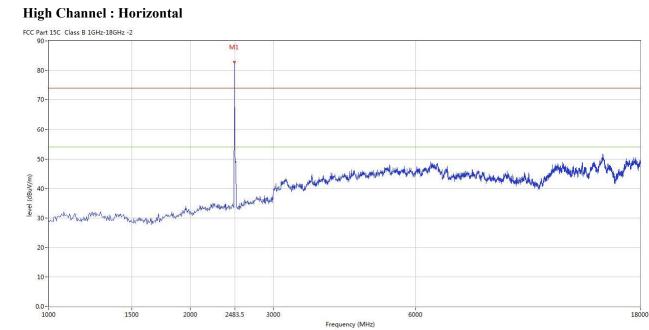




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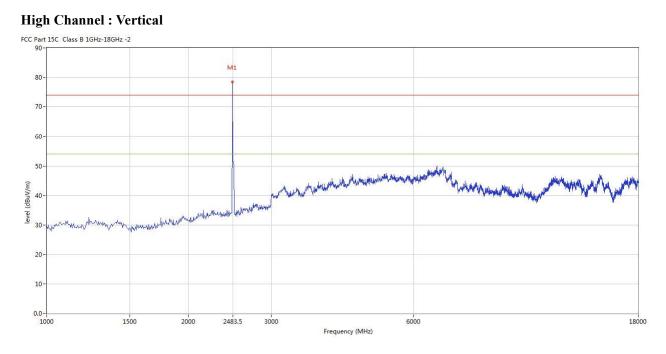




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Note: 1. Level = Reading + AF + Cable - Preamp

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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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

EUT		Tablet POS	Model	HM628N
Mode	Ke	ep Transmitting	Input Voltage	DC7.6V
Temperat	emperature 24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Minimum Limit (kHz)	Pass/ Fail
Low	2402	872		Pass
Middle	2441	878		Pass
High	2480	884		Pass

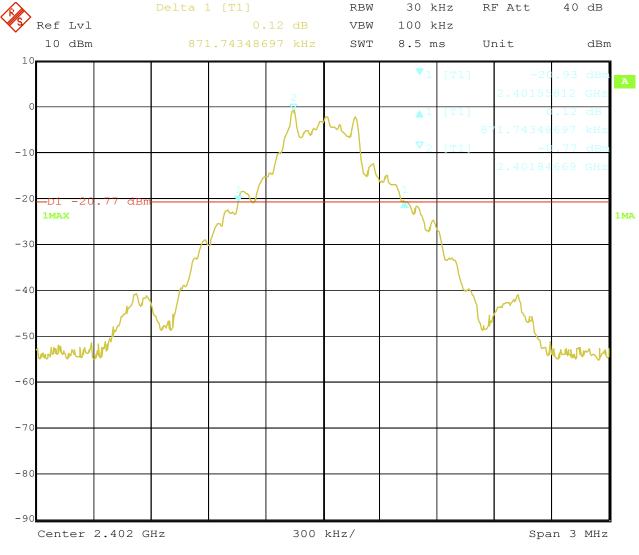
The report refers only to the sample tested and does not apply to the bulk.

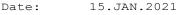
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Test Figure: 1. Condition: Low Channel





13:17:12

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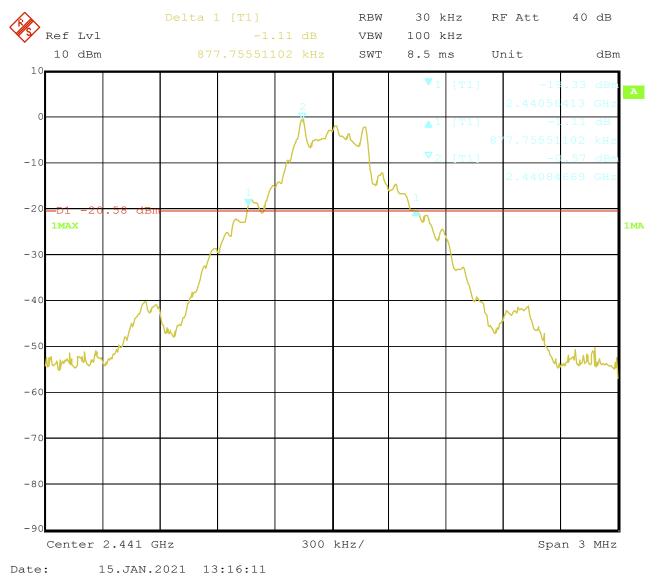
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2. Condition: Middle Channel



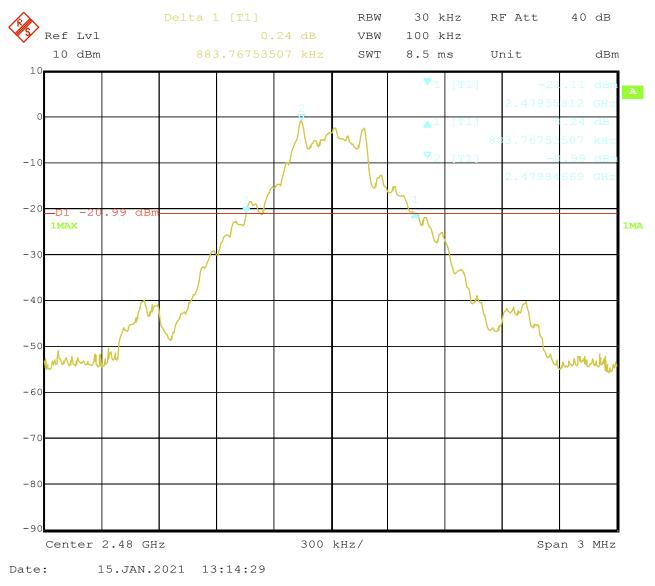
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3. High Channel



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Test Result

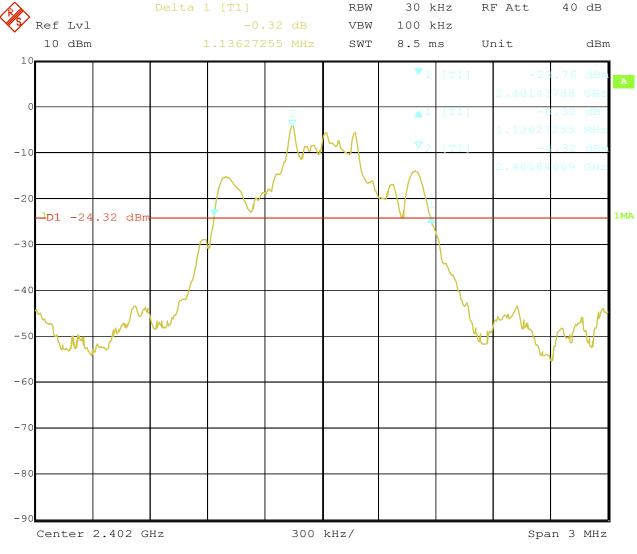
Type of Modulation: Л/4D-QPSK

EUT		Tablet POS	Model	HM628N
Mode	Ke	eep Transmitting	Input Voltage	DC7.6V
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1136		Pass
Middle	2441	1136		Pass
High	2480	1136		Pass

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Test Figure: 1. Condition: Low Channel





15.JAN.2021 13:18:29

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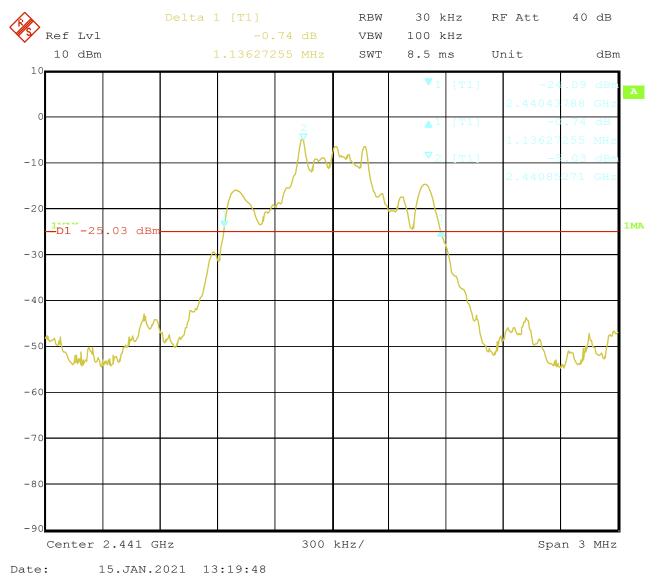
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2. Condition: Middle Channel



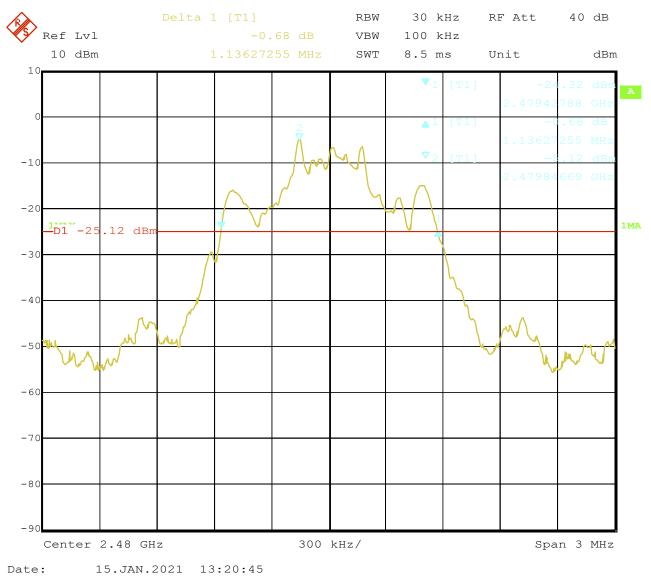
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3. High Channel



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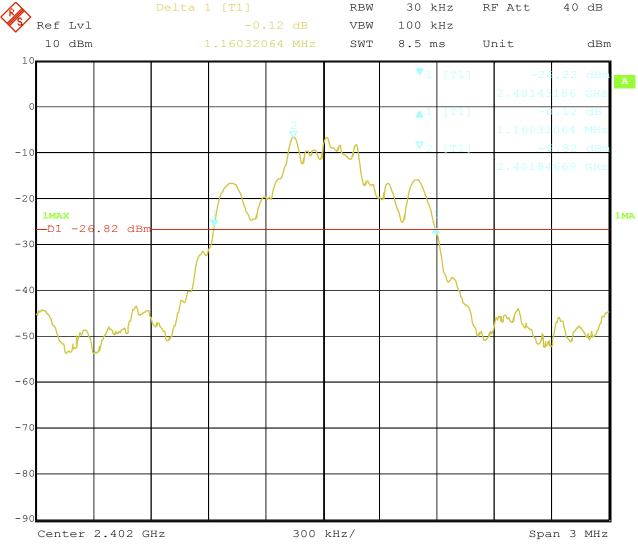
Test Result Type of Modulation: 8DPSK

EUT		Tablet POS	Model	HM628N
Mode	K	eep Transmitting	Input Voltage	DC7.6V
Temperat	ure	24 deg. C,	Humidity	56% RH
Channel	Channel Frequency (MHz)	20 dB Bandwidth (kHz)	Maximum Limit (kHz)	Pass/ Fail
Low	2402	1160		Pass
Middle	2441	1160		Pass
High	2480	1160		Pass

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Test Figure: 1. Condition: Low Channel



Date:

15.JAN.2021 13:36:52

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

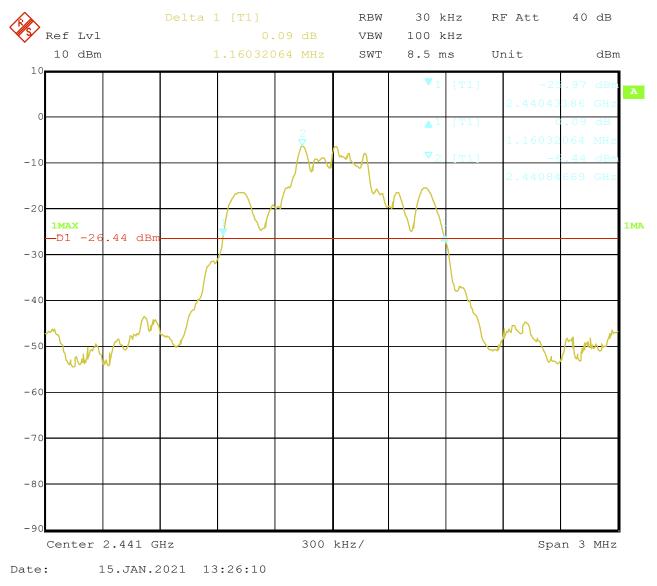
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Page 34 of 80

2. Condition: Middle Channel



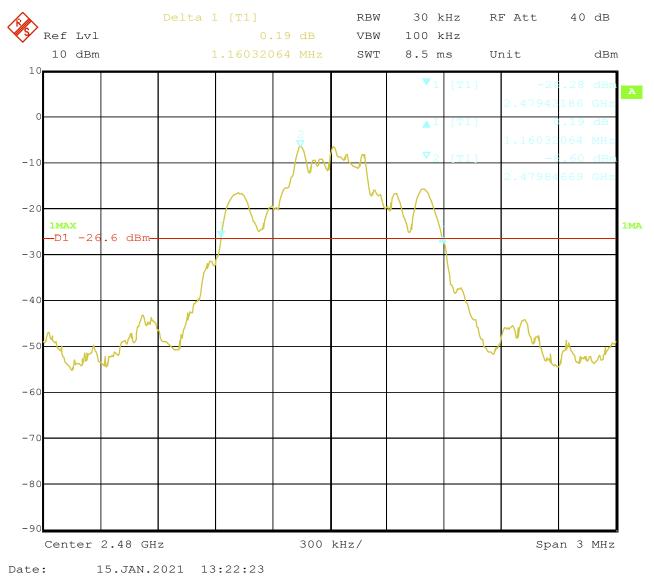
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3. High Channel



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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			HM628N
Mode	Ke	Keep Transmitting I		Input Voltage D	
Temperature	emperature 24 deg. C, Humi		Humi	dity	56% RH
Channel	Channel Frequency (MHz)	Max. Power Output (dBm Peak	Max. Power Output (dBm) Peak		Pass/ Fail
Low	2402	1.13		30	Pass
Middle	2441	1.41		30	Pass
High	2480	1.01		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	HM628N
Mode		Keep Transmitting		Input Voltage		DC7.6V
Temperature	ure 24 deg. C, Hur		Hum	idity	56% RH	
Channel		Channel Frequency Max. Power Output (dBn		.)	Peak Power	Pass/ Fail
		(MHz) Peak			Limit (dBm)	
Low		2402	0.31		30	Pass
Middle		2441	0.76		30	Pass
High		2480	0.45		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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adopt any other remedies which may be appropriate.



Type of Modulation: 8DPSK

EUT		Tablet POS		Model	HM628N
Mode	K	Keep Transmitting		ıt Voltage	DC7.6V
Temperature	e	24 deg. C, Hi		umidity	56% RH
Channel	Channel Frequency	Max. Power Output (dBm)	Peak Power	Pass/ Fail
Channer	(MHz)	Peak		Limit (dBm)	
Low	2402	0.49		30	Pass
Middle	2441	0.82		30	Pass
High	2480	0.53		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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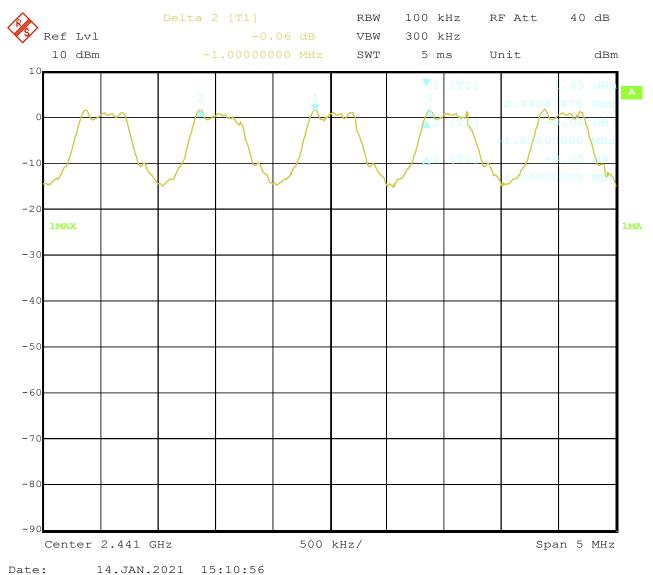


9.4Test Result

Type of Modulation: GFSK

EUT	Tablet POS	Model]	HM628N	
Mode	Hopping O	Input Voltage		DC7.6V	
Temperature	24 deg. C,		Humidity		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.

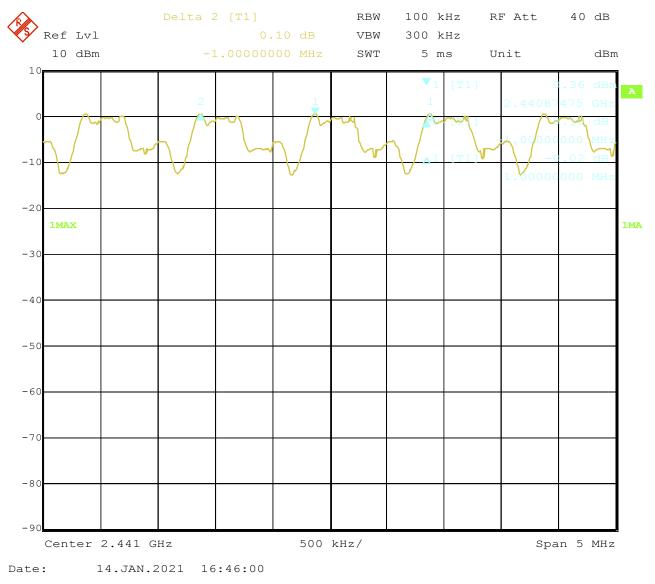
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Type of Modulation: Л/4D-QPSK

EUT	Tablet POS	Model		HM628N	
Mode	Hopping O	Input Voltage		DC7.6V	
Temperature	24 deg. C,	24 deg. C,			56% RH
Carrier I	Frequency Separation		Limit		Pass/ Fail
	1.000MHz	≥ 25 kHz or 2	2/3 of 20 dB bandw	vidth	Pass

Test Plots



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

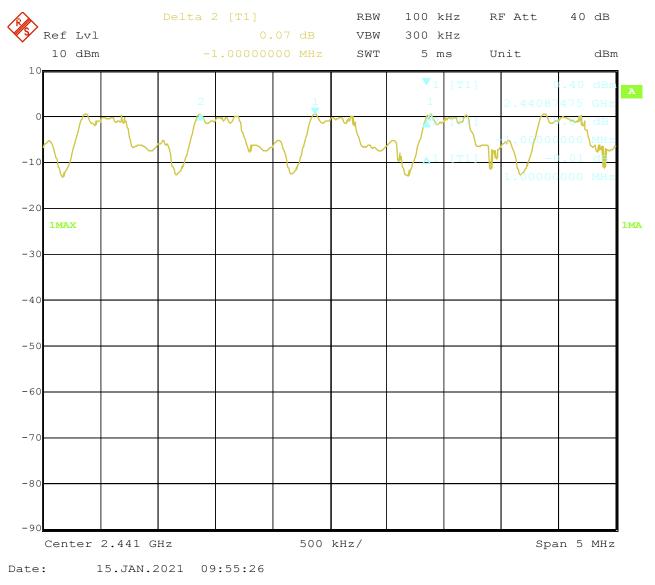
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Type of Modulation: 8DPSK

EUT	Tablet POS	Model		HM628N	
Mode	Hopping O	Input Voltage		DC7.6V	
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 bandw	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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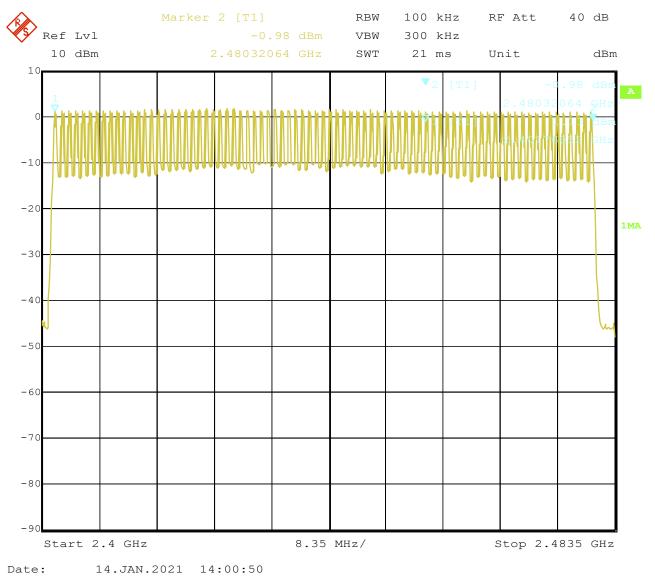


10.4Test Result

Type of Modulation: GFSK

EUT	Tablet POS		Model		HM628N	
Mode	Hopping On		Input Voltage	DC7.6V		
Temperature	2	24 deg. C,	Humidity	56% RH		
Operating Frequency		Number of hop	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.

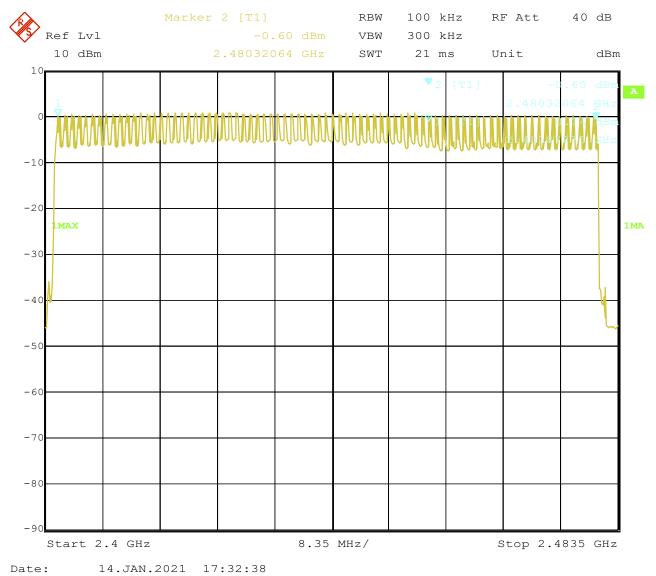
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Type of Modulation: Л/4D-QPSK

EUT	Tablet POS		Model		HM628N
Mode	Hopping On		Input Voltage		DC7.6V
Temperature	24 deg. C,		Humidity	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.

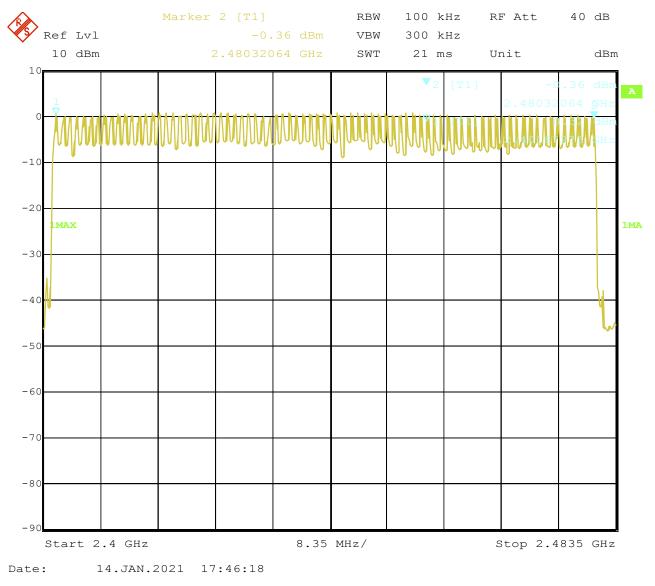
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Type of Modulation: 8DPSK

EUT	Tablet POS		М	lodel		HM628N	
Mode	Hopping On		Input	nput Voltage		DC7.6V	
Temperature	24 deg. C,		Humidity			56% RH	
Operating Frequency		y Number of hoppin channels		Liı	nit	Pass/ Fail	
2402-2480MHz		79		>	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	Tablet POS		Model	H	IM628N		
Mode	Keep Tr	Keep Transmitting]	DC7.6V		
Temperature	24 d	leg. C,	Humidity	5	56% RH		
Channel	Reading	Hoping	Hoping Rate		Limit		
			DH1				
Middle	0.200ms	800 ł	nop/s	0.064s	0.4s		
			DH3				
Middle	0.200ms	400 ł	400 hop/s		0.4s		
DH5							
Middle	0.200ms	266.66	7 hop/s	0.021s	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.

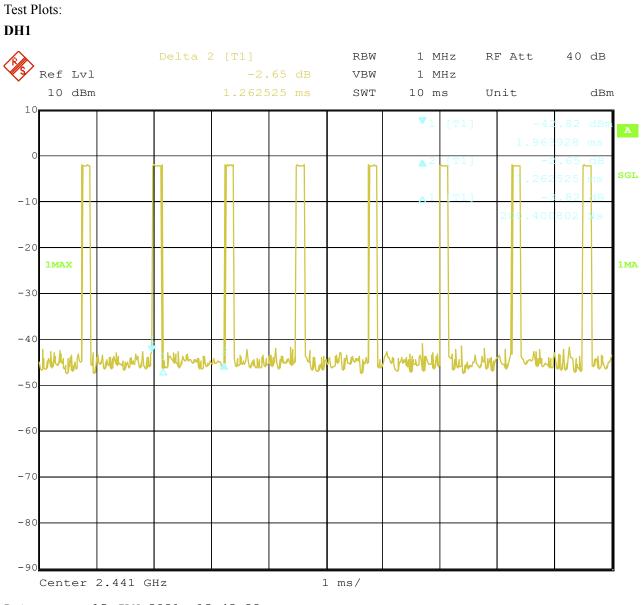
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Date:

15.JAN.2021 13:43:28

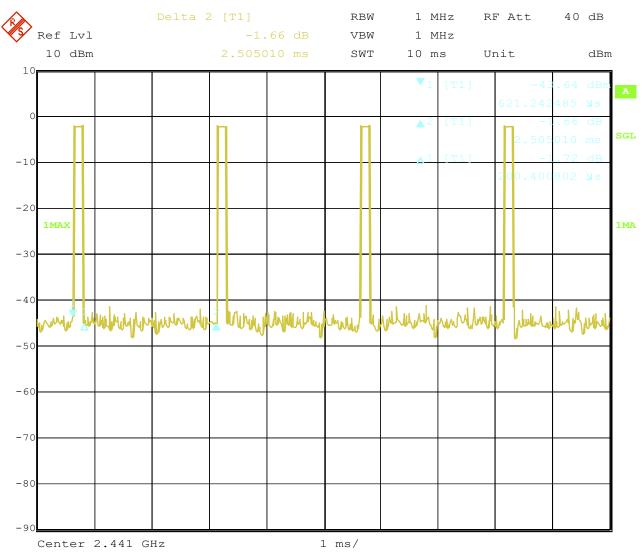
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Test Plots: DH3



Date: 15.JAN.2021

13:44:17

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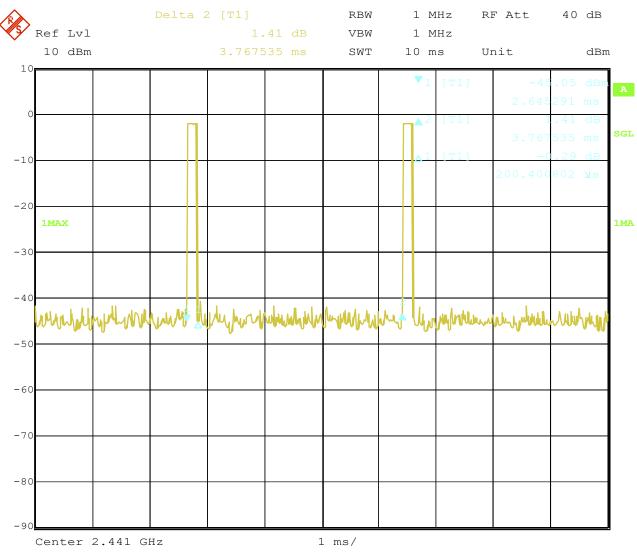
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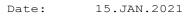
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Test Plots: **DH5**





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Test Result Type of Modulation: *Π*/4D-QPSK

EUT	Tablet POS		Model	Н	IM628N			
Mode	Кеер Ті	Keep Transmitting		I	DC7.6V			
Temperature	e 24 deg. C,		Humidity	5	56% RH			
Channel	Reading	Hopin	Hoping Rate		Limit			
	DH1							
Middle	0.200ms	800 ł	nop/s	0.064s	0.4s			
			DH3					
Middle	0.200ms	400 h	400 hop/s		0.4s			
DH5								
Middle	0.200ms	266.667	7 hop/s	0.021s	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.

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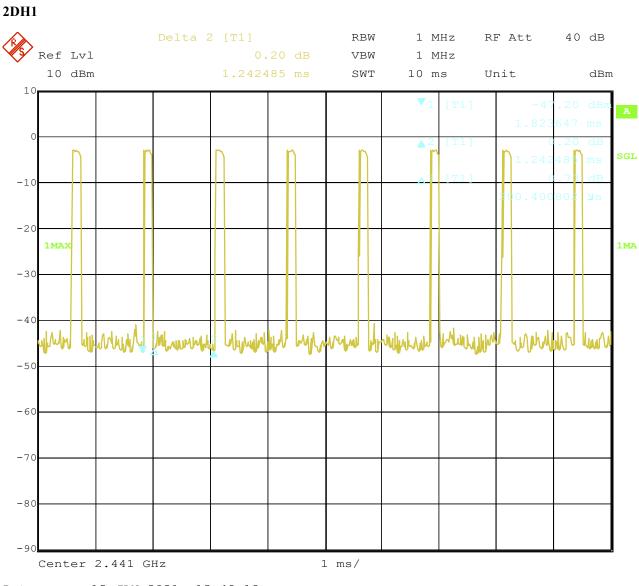
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Test Plots:



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Date:

15.JAN.2021 13:49:18

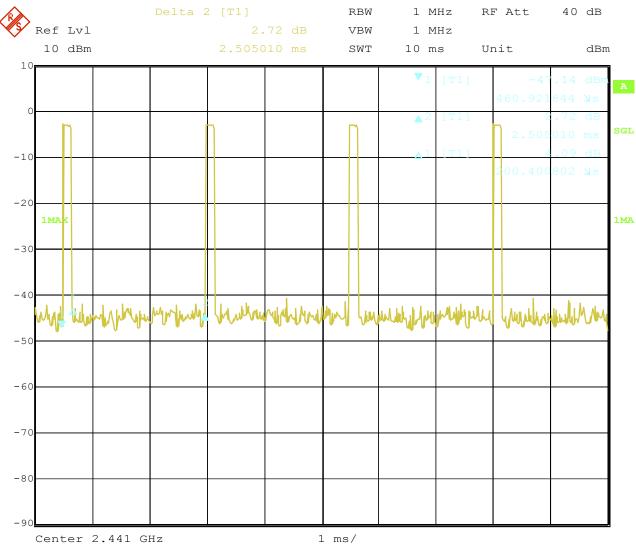
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Test Plots: **2DH3**





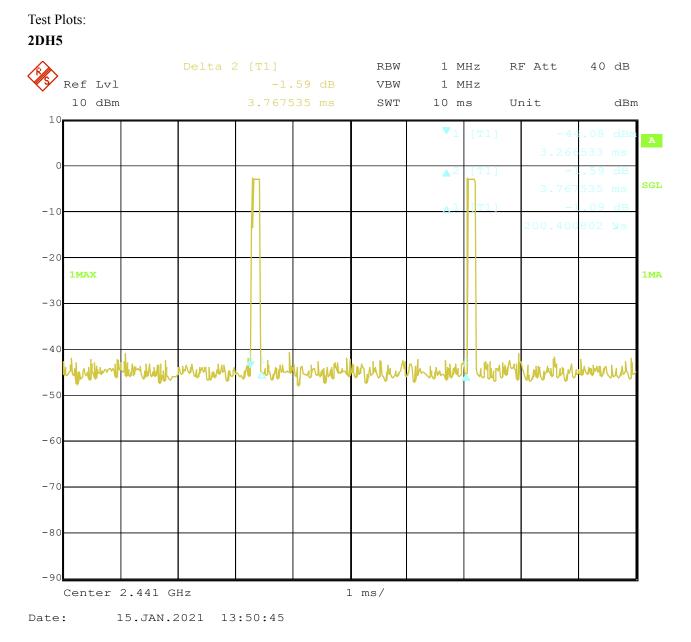
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Type of Modulation: 8DPSK

EUT	Table	Tablet POS		H	IM628N			
Mode	Keep Tr	Keep Transmitting]	DC7.6V			
Temperatur	e 24 deg. C, Humidity		Humidity	4	56% RH			
Channel	Reading	Hoping	Hoping Rate		Limit			
	DH1							
Middle	0.200ms	800 ł	nop/s	0.064s	0.4s			
			DH3					
Middle	0.200ms	0.200ms 400 hop/s 0.0		0.032s	0.4s			
	DH5							
Middle	0.200ms	266.66	7 hop/s	0.021s	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.

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

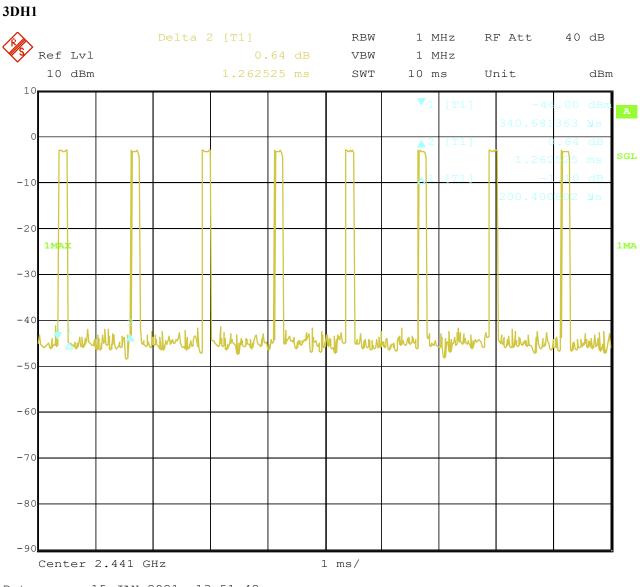
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Test Plots:



Page 57 of 80



Date:

15.JAN.2021

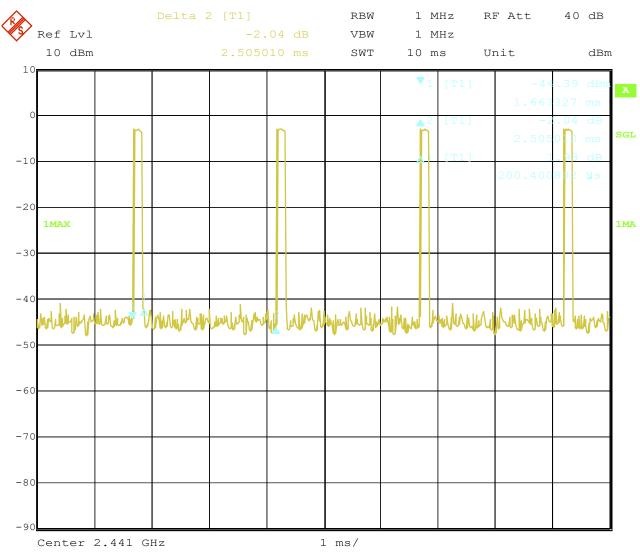
13:51:42

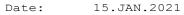
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Test Plots: 3DH3





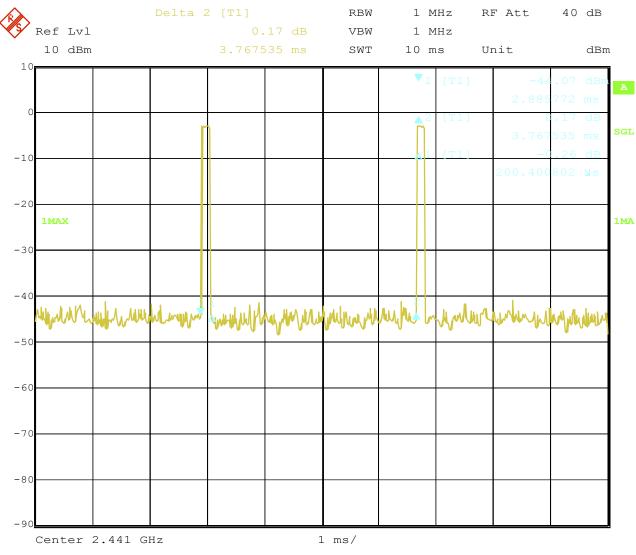
13:52:38

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Test Plots: 3DH5





15.JAN.2021 13:53:28

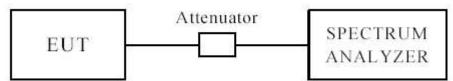
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12 Out of Band Measurement

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

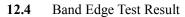
Band Edge Test Result 12.4

roduct:	Tablet POS		Test Mode:	Low Channe
/lode	Keeping Transmitti	ng	Input Voltage	DC7.6V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	РК
Fest Figure:				·
k)	Marker 1 [T1]	RBW 100	kHz RF Att	40 dB
Ref Lvl	1.15 dBm	VBW 300	kHz	
10 dBm	2.40194389 GHz	SWT 15	ms Unit	dBm
10			1 [T1]	1.15 dBm
			2.40	A
0			2 [T1]	47.91 dBm
			2.400	00000 GHz
-10			3 [T1] -	48.21 dBm
			2.390	00000 GHz
-20				1M
INAX				114
-30				
-40				
		3	2	
-50 Martin Midullion	man Alter weekhen all he	mallingthreating	mon under	herrender
-50				
-60				
-70				
-80				
-00				
-90		IHz/		0 2.41 GHz

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Type of Modulation: GFSK



Product:	Tablet POS				Te	Test Mode:		High Channel	
Mode	Kee	eping Tran	smitting		Inp	out Voltag	e	DC7.6V	
Temperature		24 deg.	С,		H	Iumidity		56% RH	
Test Result:		Pass]	Detector		РК	
est Figure:					•		•		
	Marker	1 [T1]		RBW	100	kHz I	RF Att	40 dB	
Ref Lvl		0.	73 dBm	VBW	300	kHz			
10 dBm	2	2.479859	72 GHz	SWT	7.5	ms t	Jnit	dBm	L
10					▼ 1	1 1 - 1			
		1			• 1	[T1]	2.47985	972 GHz	A
0					▼ 2	[T1]	-48	.05 dBm	
							2.48350	000 GHz	
-10		ЦЦ							
-20									
1MAX									1м
-30									
-40									
Markan analah idi	you any here where	Luk	unit 2	ulund	Miller	Mudru	unhan	mmul	
-50			<u>v</u>						
-60									
00									
-70									
-80									
-90									ļ

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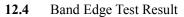
Type of Modulation: GFSK

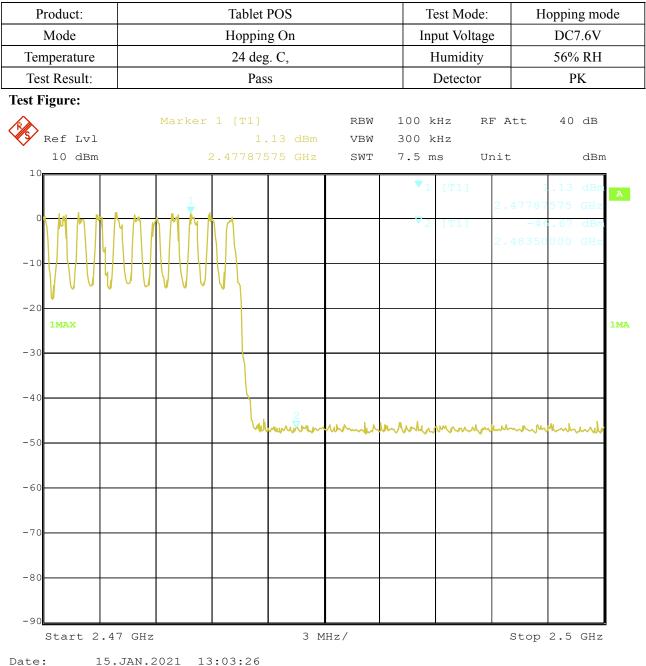
Product:	Tablet I	POS		Т	est Mo	de:	Hopping mode	
Mode	Hopping	g On		Inj	put Vol	tage	DC7.6V	
Temperature	24 deg	. C,]	Humidi	ty	56% RH	
Test Result:	Pass	5			Detecto	or	РК	
est Figure:				•		· ·		
	Marker 1 [T1]		RBW	100 k	Hz	RF At	t 40 dB	
Ref Lvl	1.	19 dBm	VBW	300 k	Hz			
10 dBm	2.408917	84 GHz	SWT	15 m	ıs	Unit	dBm	
10				▼1	[T1]		1.19 dBm	
					[+ +]	2.40	1	
0				₹2	[T1]			
						2.40	DOODDO GHE	
-10				V 3	[T1]		<u>-47.67 dBn</u>	
						2.39	stal population	
-20								
1MAX							11	
-30								
-40								
lange announder	- when man man man man man man man man man ma	ulum	uhun	all the	num	minit		
-50			· · ·					
-60								
-70								
-80								
-90		6 мн	- /					
SLAIL 2.33	GIL	υMH	41			SLO	op 2.41 GHz	

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Type of Modulation: GFSK





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Type of Modulation: Л/4D-QPSK

Out of Band Test Result 12.4

Product:		Ta	blet POS			Test Mo	ode:	L	low Channel		
Aode		Keeping	g Transmit	ting		Input V	oltage		DC7.6V		
Temperat		24	4 deg. C			Humidi	ty		56% RH		
ure											
Test			Pass			Detecto	r		РК		
Result:											
Fest Figure:											
		Marker			RBW	100 k		RF Att	40 dB		
Ref Lv				.28 dBm	VBW	300 }		•.	15		
10 dE	sm	2	2.401943	389 GHz	SWT	15 n	ns	Unit	dBm		
						V 1	[T1]		0.28 dBm	A	
0								2.401	94389 GHz		
0							[T1]		47.89 dBm		
1.0							[11]	2.400	00000 GHz 48 26 dBm		
-10						J		2.390	00000 GHz		
-20										1M2	
IMAX										TM	
-30											
-40								N	V		
	human			L. A. Aller	. 0			2	hundham		
-50	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Municipation and a second s			a during a during	W.~V~V-V		~~~	- Under U. Acres		
-60	_										
-70											
-80											
-00-											
0.0											
-90	2.35 GHz		1		Hz/				2.41 GHz		

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Type of Modulation: Л/4D-QPSK

Band Edge Test Result 12.4

Product:		Tablet POS		Test Mo	de:	Hig	h Channe	el
Mode	Kee	eping Transmitting		Input Vol	tage	Г	OC7.6V	
Temperature		24 deg. C,		Humidi	56% RH			
Test Result:		Pass		Detect	or		РК	
est Figure:				•	•			
	Marker	1 [T1]	RBW	100 kHz	RF A	tt	40 dB	
Ref Lvl		-0.00 dBr	n VBW	300 kHz				
10 dBm	2	2.47985972 GH:	swt	7.5 ms	Unit		dBr	m
10				▼1 [T1	1	-0.	00 dBn	
		1		L		479859		z
0		M		▼2 [T1]	-47.	93 dBn	n
					2.	483500		z
-10								
-20								
1MAX								1
-30								
4.0	A.	41						
-40	0	V						
	melenhalenen	huntin	uhunn	malmethem	newhen	mal	Horn	L
-50								
-60								
-70								
-80								
-90								
Start 2.47	GHz	3	MHz/			Stop 2	.5 GHz	z

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Type of Modulation: Л/4D-QPSK

12.4 Out of Band Test Result	12.4	Out of Band Test Result
------------------------------	------	-------------------------

Product:	Table		Т	est Mo	de:	Hopping mode		
Mode	Норр	ing On		In	put Vol	tage	e DC7.6V	
Temperature	24 d	eg. C,		Humidi			56% RH	
Test Result:	Pa	ass			Detecto	or	РК	
est Figure:				I		I		
	Marker 1 [T1]		RBW	100 k	Hz	RF At	t 40 dB	
Ref Lvl).49 dBm	VBW	300 k	Hz			
10 dBm	2.41000	0000 GHz	SWT	15 m	ıs	Unit	dBm	
10				▼ 1	[T1]		0.49 dBm	
					[]	2.41	2000000 GHz	
0				<u>▼</u> 2	[T1]			
						2.40	oologiqa, ante	
-10				V 3	[T1]		<u>-46.21 dBn</u>	
						2.39	9000000 GHz	
-20								
1MAX							11	
-30								
-40								
muniteration	mhome	manu	munn	denrent 1	uluru	unt		
-50				· · ·				
-60								
-70								
-80								
-90		6 MI	· - /				2 41 611-	
Start 2.35	GUZ	o Mi	12/			500	op 2.41 GHz	

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Type of Modulation: Л/4D-QPSK

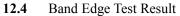
12.4	Out of Band Test Result

Product:	Tablet POS		Test Mode:	Hopping mode		
Mode	Hopping On		Input Voltage	DC7.6V		
Temperature	24 deg. C,		Humidity	56% RH		
Test Result:	Pass		Detector	РК		
Test Figure:						
K	Marker 1 [T1]	RBW 2	100 kHz RF A	tt 40 dB		
Ref Lvl	0.16 dBm		300 kHz			
10 dBm	2.47691383 GHz	SWT	7.5 ms Unit	dBm		
10			▼1 [T1]	0.16 dBm		
	1		2.4	47691383 GHz		
	h h h h h h h		▼2 [T1]	-46.36 dBm		
4444	44444		2.	48350000 GHz		
-10						
-20						
1MAX				1M7		
-30						
-40						
	2 minutes	umu	mannen	munchen		
-50						
-60						
-70						
-80						
-90						
-90	GHz 3 M	IHz/		Stop 2.5 GHz		

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Type of Modulation: 8DPSK



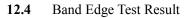
Product:	Tabl	et POS		Test Mod	e:	Low Channel
Aode	Keeping	Fransmitting		Input Vol	Voltage DC7.6V	
Temperature	24 0	deg. C		Humidity	,	56% RH
Test Result:	F	ass		Detector		РК
Fest Figure:					•	
R A	Marker 1 [T1]	RBW	100 kHz	RF Att	40 dB
Ref Lvl		0.27 dBm	VBW	300 kHz		
10 dBm	2.4019	4389 GHz	SWT	15 ms	Unit	dBm
10				▼1 [T1]		0.27 dBm
					2.40	194389 GHz
0				▼2 [T1]		46.79 dBm
					2.40	000000 GHz
-10				▼ _{3 [T1]}		- <mark>46.58 dBm</mark>
					2.39	000000 GHz
-20						
1MAX						11
-30						
-30						
					N/	4
-40				2		
mannelle	hunderhander	withmen	malyon	un then my	unn	halmenny
-50			•			
-60						
-70						
-80						
00						
-90		6 МН	_ /			p 2.41 GHz

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Type of Modulation: 8DPSK



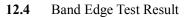
Product:	Tablet POS				Те	Test Mode:		High Channel	
Mode	Kee	eping Tran	smitting		Inp	ut Voltage	;	DC7.6V	
Temperature		24 deg.	С,		H	Iumidity		56% RH	
Test Result:		Pass			Ι	Detector		РК	
est Figure:									
\$	Marker	1 [T1]		RBW	100 }	kHz R	F Att	40 dB	
Ref Lvl		-0.	04 dBm	VBW	300 3	кHz			
10 dBm	2	2.479919	84 GHz	SWT	7.5 r	ns U	nit	dBm	ı
10					▼1	[T1]	- (04 dBm	
		1				L + + J	2.47991	.984 GHz	A
0		M			₹2	[T1]	-47	.79 dBm	
							2.48350	000 GHz	
-10		-₩-1							
-20									
1MAX									1м
-30									
- 30									
	1								
-40	4								
normantal	Mound	ل	hhim	mon	mmiman	Mantin	hellenn	Herment	
-50								•	
-60									
-70									
-80									
-90									
-90 Start 2.47 (GHz		3 м	Hz/		•	Stop	2.5 GHz	9

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Type of Modulation: 8DPSK



Product:	Table	t POS		T	est Mod	e:	Hopping mo	ode
Mode	Hoppi	ing On		Inj	put Volta	nge	DC7.6V	
Temperature	24 de	24 deg. C,			Humidit	y	56% RH	
Test Result:		ass			Detector	r	РК	
est Figure:				I		I		
	Marker 1 [T1]		RBW	100 k	Hz	RF Att	40 dB	
Ref Lvl).47 dBm	VBW	300 k	Hz			
10 dBm	2.40795	591 GHz	SWT	15 m	IS	Unit	dBm	n
10				▼ 1	[T1]		0 47 dBm	1
					[]	2.407	95591 @Hz	A
0				▼2	[T1]			
						2.400	ondoù Gha	
-10				V 3	<u>[T1]</u>		46.64 dBr	
						2.39 <mark>0</mark>	00 <mark>000 GH</mark> z	
-20								
1MAX								1M
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Start 2.35	GHZ	6 MH	12/			stop	2.41 GHz	

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

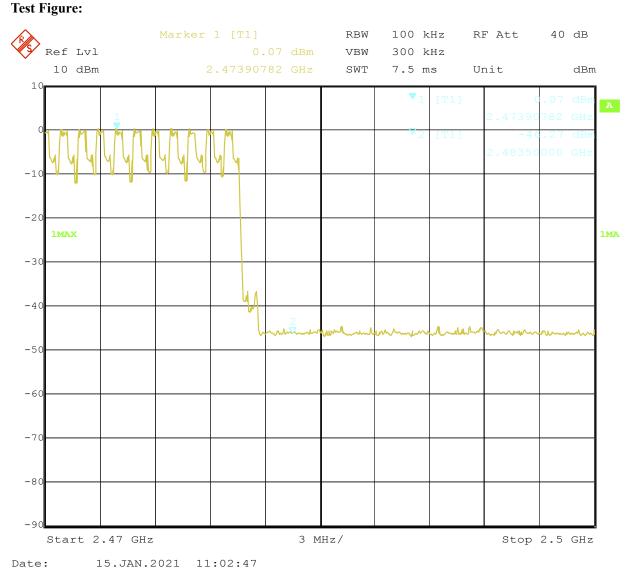
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Type of Modulation: 8DPSK

Band Edge Test Result 12.4

Product:	Tablet POS	Test Mode:	Hopping mode
Mode	Hopping On	Input Voltage	DC7.6V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	РК
T			



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12.4	Restrict Band Measurement

-	EUT		Tablet	POS		Model			HM628N	1
Ν	Mode	K	eep Tran	smitting]	Input Volta	ige		DC7.6V	r
Temp	perature		24 deg	g. C,		Humidity	y		56% RH	[
Test	Result:		Pas	S	М	odulation	Гуре		8DPSK	
2 Part 15C 90-	Class B 1GHz-18GHz	-2								
									M1	
80-									\wedge	
70-										
									$\langle \rangle$	
60-								+	42	
50-							M3	/	. \	
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40	endersjøregi en avkinsterate	is even lagi data bi data bi da aken da ase		940004019400000000000000000000000000000	Frequency (MHz)					2410
40- 30- 20- 10- 0.0-	Frequency	Results	Factor	Limit			Table (o)	Height	ANT	
40- 30- 20- 10- 2350					Frequency (MHz)					2410
40- 30- 20- 10- 2350	Frequency	Results	Factor	Limit	Frequency (MHz)			Height		2410
40- 30- 20- 10- 0.0- 2350	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdict
40- 30- 20- 10- 2350 No.	Frequency (MHz) 2401.855	Results (dBuV/m) 81.74	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 7.74	Detector Peak	Table (o) 10.00	Height (cm) 100	ANT Horizontal	2410 Verdict Pass

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12.4	Restrict Band Measurement
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1	EUT		Tablet	POS		Model		H	IM628N	
N	Mode	K	eep Tran	smitting	Inp	out Voltage		I	DC7.6V	
Tem	perature		24 deg	g. C,	H	Iumidity		5	56% RH	
Test	t Result:		Pas	SS	Mod	ulation Typ	pe	:	8DPSK	
C Part 15C 90-	Class B 1GHz-18GHz	-2								
80-									M1	
									<u>^</u>	
70-								1	/	
60-								/	<u> </u>	
50-							1122	12		
			S	6 8 - 19 8 F			MB		1	11
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	adel na ann an tha	nladanktikkia nimetaisensislaise	in discription in the optimistic states	lediarii dhuu wadadaaliya	alarmetrijisti niva seterijista	i fa han in sin fa in	ad fail snart the annual states and	addatusiontheology and a	New 11	Vergelen Länn
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40-	สข้างกันเขารูโครีรังเสียไข่สุนทุ่มห่างห	nisi indefini a ina cimacyl an	enderseynigeren genederi	in the second	<u>in a sanahi kala sanahi kala sanahi kana kana kana kana kana kana kana kan</u>	44+4+4+3+3+4+3+4+3+4+3+4+4+4+4+4+4+4+4+	d à fhai san stàin dùtha dhùi sao shu	sia kausekologegelet	North Control of Contr	the state of the s
40- 30-	มข้างกันแรงสมัยไข่มีหมู่หมาย 	visetendeller, minnesimusytaan	in Nongrope weeks and	ing the specific state in the state of the	<u>in a construit de la construit</u>	۵ <u>۵ - ۱۹۰۹ - ۱۹۶۹</u> ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ -	4.1642.488944.4945.489946.4995	sia kauseka kapa je d		Vernetiki URV
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40- 30- 20- 10-	Frequency	Results	Factor	Limit			Table (o)	Height	ANT	
40- 30- 20- 10- 2350					Frequency (MHz)					2410
40- 30- 20- 10- 2350	Frequency	Results	Factor	Limit	Frequency (MHz) Over Limit			Height		2410
40- 30- 20- 0.0- 2350 No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2410 Verdict
40- 30- 20- 10- 2350 No.	Frequency (MHz) 2402.110	Results (dBuV/m) 77.18	Factor (dB) -3.57	Limit (dBuV/m) 74.0	Frequency (MHz) Over Limit (dB) 3.18	Detector Peak	Table (o) 5.00	Height (cm) 100	ANT Vertical	2410 Verdict Pass

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12.4 **Restrict Band Measurement**

EUT		Tablet	POS		Model			HM628	N
Mode	Ke	eep Tran	smitting		Input Volt	age		DC7.6	V
Temperature		24 deg	g. C,		Humidit	у		56% RI	Η
Test Result:		Pas	S	N	Iodulation	Туре		8DPSK	<u> </u>
C Part 15C Class B 1GHz-18GH 90- 80- 70- 60-	iz -2								
50- 10- 20- 10-	hadiserede van het det date date date			And Andrews and Andrews and Andrews	tenge ataysoclarikanathika akk	lishaatikeristeisteiste	likeshture ver ekstikatione	Sinders förskälden och personander segand	trations for draw
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40- 30- 20- 0.0-	Results	Factor	2 Limit	2483.5		Table (o)	Height	ANT	
40- 30- 20- 10- 2470		Factor (dB)		2483.5 Frequency (MHz)					2500
40- 30- 20- 10- 2470 No. Frequency	Results		Limit	2483.5 Frequency (MHz) Over Limit			Height		2500

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EUT		Tablet	POS		Model			HM628N	N
Mode	K	eep Tran	smitting]	Input Volta	ıge		DC7.6V	7
Temperature		24 deg	g. C,		Humidity	y		56% RH	I
Test Result:		Pas	S	М	odulation	Гуре		8DPSK	
Part 15C Class B 1GHz-18GH	z -2					•			
90-									
80-									
70-		/							
			X						
60-		1	1						
50-		11 Martin	1						
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Bayline of all and all				2483.5				konstadio (1997)	
40- 30- 20- 10- 2470		Factor	Limit	2483.5 Frequency (MHz))				2500
40- 30- 20- 10- 0.0- 2470 No. Frequency	Results	Factor	Limit	2483.5 Frequency (MHz) Over Limit		Table (o)	Height	ANT	
40- 30- 20- 10- 2470 No. Frequency (MHz)	Results (dBuV/m)	(dB)	(dBuV/m)	2483.5 Frequency (MHz) Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	2500 Verdict
40- 30- 20- 10- 0.0- 2470 No. Frequency	Results			2483.5 Frequency (MHz) Over Limit)		Height		2500

12.4 **Restrict Band Measurement**

Note: 1. For Restricted band test, All modulation mode was tested and only the worst case was reported. 2. 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.



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 constructionsIntegral antenna used. The gain of the antennas is 1.48dBi.

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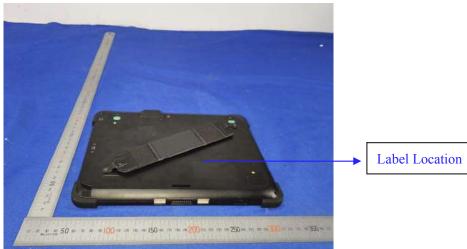
14.0 FCC ID Label

FCC ID: GQK-HM628N

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:



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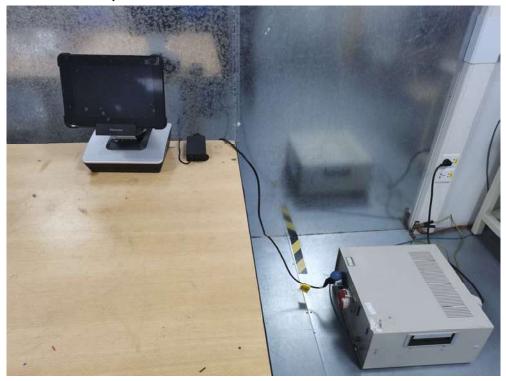
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15.0 Photo of testing

Conducted Emission Test Setup:

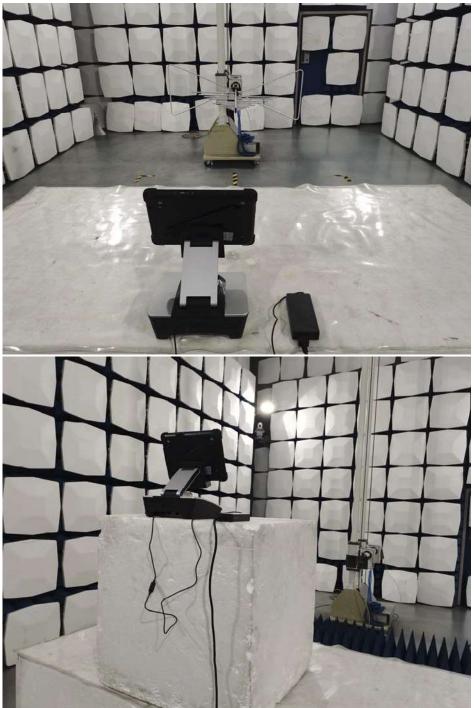


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Radiated Emission Test Setup:



Photographs – EUT

Please refer test report TW2012217-01E

--End of Report--

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