FCC TEST REPORT **FOR**

Speedata Group LTD

Handheld terminal

Model No.: KT40

Additional Model No.: KT40-S, KT40-N43, KT40-N63

Prepared for Speedata Group LTD

Address Room 2-308, building No.25, No.9 Anningzhuang Road West,

Haidian district, Beijing, China

: Shenzhen LCS Compliance Testing Laboratory Ltd. Prepared by

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Date of receipt of test sample : May 06, 2017

Number of tested samples

Serial number : Prototype

Date of Test May 06, 2017~May 26, 2017

Date of Report May 26, 2017

FCC TEST REPORT

FCC CFR 47 PART 15 C(15.247)

Report Reference No.: LCS170506005AE

Date of Issue: May 26, 2017

Testing Laboratory Name: Shenzhen LCS Compliance Testing Laboratory Ltd.

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure.....: Full application of Harmonised standards ■

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Speedata Group LTD

Address Room 2-308, building No.25, No.9 Anningzhuang Road West,

Haidian district, Beijing, China

Test Specification

Standard......: FCC CFR 47 PART 15 C(15.247)

Test Report Form No.....: LCSEMC-1.0

TRF Originator : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2011-03

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Test Item Description.: Handheld terminal

)) ((SPEEDATA® Trade Mark....::

Model/ Type reference.....: KT40

Ratings DC 3.8V, 4300mAh

Charging parameter: Input: 110~220V AC, 50/60Hz, 0.25A;

Output: DC 5V, 1.2A

Result: Positive

Compiled by:

Supervised by:

Approved by:

Calvin Weng/ Administrators

Glin Lu/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

May 26, 2017 **Test Report No.:** LCS170506005AE Date of issue

EUT..... : Handheld terminal Type / Model..... : KT40 Applicant..... : Speedata Group LTD Address..... : Room 2-308, building No.25, No.9 Anningzhuang Road West, Haidian district, Beijing, China Telephone..... Fax..... Manufacturer..... : Beijing Speedata Technology Co.,Ltd : Room 2-308, building No.25, No.9 Anningzhuang Road West, Address..... Haidian district, Beijing, China Telephone..... Fax..... : Beijing Speedata Technology Co.,Ltd Factory..... Address..... : Room 2-308, building No.25, No.9 Anningzhuang Road West, Haidian district, Beijing, China Telephone..... Fax.....

Test Result	Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	May 26, 2017	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

Name of EUT	Handheld terminal
Model Number	KT40, KT40-S, KT40-N43, KT40-N63
	GMSK for GSM/GPRS, 8-PSK for EDGE,QPSK for UMTS, QPSK,
Modulation Type	16QAM for LTE
	2.0dBi (max.) For GSM 850; 2.0dBi (max.) For GSM 900
	1.8dBi (max.) For DCS 1800; 1.8dBi (max.) For PCS 1900
	1.8dBi (max.) For WCDMA Band II
Antenna Gain	2.0dBi (max.) For WCDMA Band V
	1.8dBi (max.) For LTE FDD Band 7
	2.0dBi (max.) For BT and WLAN
	3.0dBi (max.) For NFC
Hardware version	rev.B1
Software version	2017_05_22
GSM/EDGE/GPRS Operation	CCM050/DCC4000/CDDC050/CDDC4000/FDC5050/FDC54000
Frequency Band	GSM850/PCS1900/GPRS850/GPRS1900/EDGE850/EDGE1900
UMTS Operation Frequency Band	UMTS FDD Band II/V
LTE Operation Frequency Band	LTE FDD band 7
GSM/EDGE/GPRS	Supported GSM/GPRS/EDGE
GSM Release Version	R99
GSM/EDGE/GPRS Power Class	GSM850:Power Class 4/ PCS1900:Power Class 1
GPRS/EDGE Multislot Class	GPRS/EDGE: Multi-slot Class 12
GPRS operation mode	Class B
WCDMA Release Version	R99
HSDPA Release Version	Release 8
HSUPA Release Version	Release 6
DC-HSUPA Release Version	Not Support
LTE Release Version	R8
LTE/UMTS Power Class	Class 3
	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)
WLAN FCC Modulation Type	IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
VVEAIVI OO IVIOUUIAIIOII TYPE	IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)
	IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
	IEEE 802.11b:2412-2462MHz
WLAN FCC Operation frequency	IEEE 802.11g:2412-2462MHz
The state of the s	IEEE 802.11n HT20:2412-2462MHz
	IEEE 802.11n HT40:2422-2452MHz
Antenna Type	PIFA Antenna
BT Modulation Type	GFSK,8-DPSK,π/4-DQPSK(BT V4.1)
Extreme temp. Tolerance	-30°C to +50°C
GPS function	Support and only RX
NFC Function	Support
Extreme vol. Limits	3.40VDC to 4.2VDC (nominal: 3.80VDC)

1.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
SHEN ZHEN KEYU SUPPLY TECHNOLOGY Co.,Ltd	Power Adapter	KA25-0501200US		FCC VoC

1.3. External I/O Cable

I/O Port Description	Quantity	Cable
USB	1	1m, unshielded cable
Earphone	1	N/A

1.4. Description of Test Facility

CNAS Registration Number is L4595.

FCC Registration Number is 899208.

Industry Canada Registration Number is 9642A-1.

ESMD Registration Number is ARCB0108.

UL Registration Number is 100571-492.

TUV SUD Registration Number is SCN1081.

TUV RH Registration Number is UA 50296516-001

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

⁽¹⁾ The uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description of Test Modes

Bluetooth operates in the unlicensed ISM Band at 2.4GHz. With basic data rate feature, the data rates can be up to 1 Mb/s by modulating the RF carrier using GFSK techniques. The EUT works in the X-axis, Y-axis, Z-axis. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

Mode of Operations	Frequency Range (MHz)	Data Rate (Mbps)			
	2402	1/2/3			
BT V 3.0	2441	1/2/3			
	2480	1/2/3			
	For Conducted Emission				
Test Mode		TX Mode			
	For Radiated Emission				
Test Mode		TX Mode			

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was the mode and channel with the highest output power that was determined to be TX (1Mbps).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-Low Channel).

AC conducted emission pre-test at both at AC 120V/60Hz and AC 240V/50Hz modes, recorded worst case;

AC conducted emission pre-test at both at power adapter and power from PC modes, recorded worst case:

Bluetooth V3.0 (DSS) frequency & channel list:

eteotif voto (Boo) frequency & charmer list.						
Channel	Frequency(MHz)	Channel	Frequency(MHz)			
1	2402	41	2442			
2	2403	42	2443			
38	2439	78	2479			
39	2440	79	2480			
40	2441					

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, FCC CFR PART 15C 15.207, 15.209, 15.247 and DA 00-705.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.247 under the FCC Rules Part 15 Subpart C.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is directly placed on the ground. According to the requirements in Section 6.2.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turntable, which is directly placed on the ground. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2013.

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a continuous transmits condition.

3.2 EUT Exercise Software

The sample will be controlled by dialing *#*#3646633#*#* to enter RF test mode to control sample change channel, modulation and so on;

3.3 Special Accessories

No.	Equipment	Manufacturer	Model No.	Serial No.	Length	shielded/ unshielded	Notes
1	PC	Lenovo	Ideapad	A131101550	/	/	DOC
2	Power adapter	Lenovo	CPA-A090	36200414	1.00m	unshielded	DOC

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart C				
FCC Rules	FCC Rules Description of Test			
§15.247(b)(1)	Maximum Conducted Output Power	Compliant		
§15.247(c)	Frequency Separation And 20 dB Bandwidth	Compliant		
§15.247(a)(1)(ii)	Number Of Hopping Frequency	Compliant		
§15.247(a)(1)(iii)	Time Of Occupancy (Dwell Time)	Compliant		
§15.209, §15.205	Conducted Spurious Emissions and Band Edges Test	Compliant		
§15.209, §15.247(d)	Radiated and Conducted Spurious Emissions	Compliant		
§15.205	Emissions at Restricted Band	Compliant		
§15.207(a)	§15.207(a) Conducted Emissions			
§15.203	Antenna Requirements	Compliant		
§15.247(i)§2.1093	RF Exposure	Compliant		

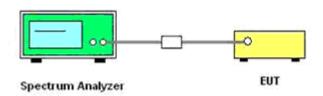
5. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Power Sensor	R&S	NRV-Z81	100458	2016-06-18	2017-06-17
2	Power Sensor	R&S	NRV-Z32	10057	2016-06-18	2017-06-17
3	Power Meter	R&S	NRVS	100444	2016-06-18	2017-06-17
4	DC Filter	MPE	23872C	N/A	2016-06-18	2017-06-17
5	RF Cable	Harbour Industries	1452	N/A	2016-06-18	2017-06-17
6	SMA Connector	Harbour Industries	9625	N/A	2016-06-18	2017-06-17
7	Spectrum Analyzer	Agilent	N9020A	MY50510140	2016-10-27	2017-10-26
8	Signal analyzer	Agilent	E4448A(Exter nal mixers to 40GHz)	US44300469	2016-06-16	2017-06-15
9	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2016-06-18	2017-06-17
10	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2016-06-18	2017-06-17
11	Amplifier	SCHAFFNER	COA9231A	18667	2017-04-18	2018-04-17
12	Amplifier	Agilent	8449B	3008A02120	2017-04-18	2018-04-17
13	Amplifier	MITEQ	AMF-6F-2604 00	9121372	2017-04-18	2018-04-17
14	Loop Antenna	R&S	HFH2-Z2	860004/001	2017-04-18	2018-04-17
15	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2017-04-18	2018-04-17
16	Horn Antenna	EMCO	3115	6741	2017-04-18	2018-04-17
17	Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	2017-04-18	2018-04-17
18	RF Cable-R03m	Jye Bao	RG142	CB021	2016-06-18	2017-06-17
19	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2016-06-18	2017-06-17
20	EMI Test Receiver	R&S	ESCI	101142	2016-06-18	2017-06-17
21	Artificial Mains	R&S	ENV216	101288	2016-06-18	2017-06-17
22	EMI Test Software	AUDIX	E3	N/A	2016-06-18	2017-06-17

6. ANTENNA PORT MEASUREMENT

6.1 Peak Power

6.1.1 Block Diagram of Test Setup



6.1.2 Limit

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 system in the 2400–2483.5 MHz band: 0.125 watts.

6.1.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

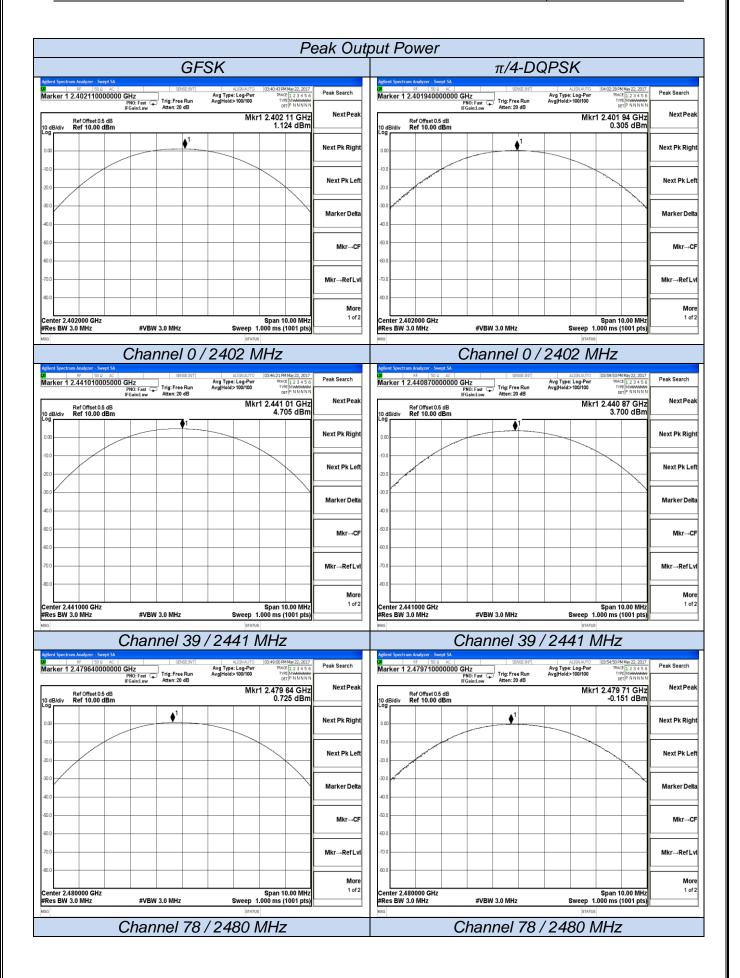
Trace = max hold

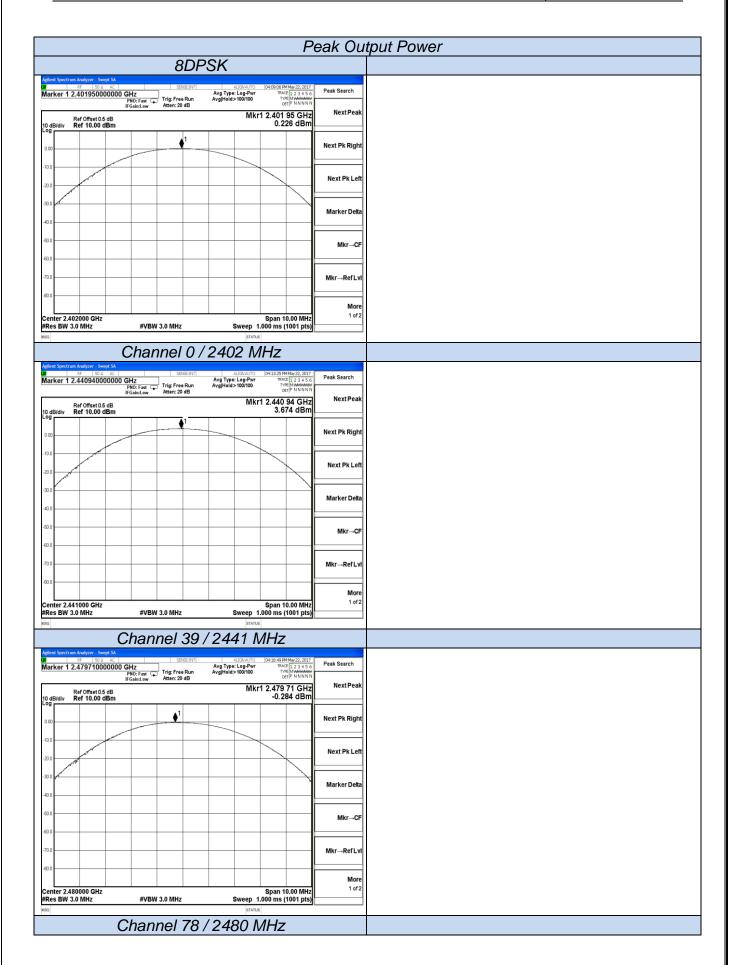
Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

6.1.4 Test Results

Test Mode	Channel	Frequency (MHz)	Measured Maximum Power (dBm)	Limits (dBm)	Verdict
	0	2402	1.124		
GFSK	39	2441	4.705	30.00	PASS
	78	2480	0.725		
π/4DQPSK	0	2402	0.305		
	39	2441	3.700	21.00	PASS
	78	2480	-0.151		
	0	2402	0.226		
8DPSK	39	2441	3.674	21.00	PASS
	78	2480	-0.284		

- Test results including cable loss;
- 2. Measured output power at difference Packet Type for each mode and recorded worst case for each
- 3. Worst case data at DH1 for GFSK, 2DH1 for π/4DQPSK, 3DH1 for 8DPSK modulation type;
- 4. Please refer to following test plots;





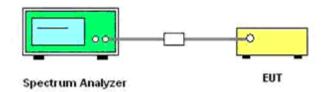
6.2 Frequency Separation and 20 dB Bandwidth

6.2.1 Limit

§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.

According to §15.247(c) or A8.1(a), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).

6.2.2 Block Diagram of Test Setup



6.2.3 Test Procedure

Frequency separation test procedure:

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = middle of hopping channel.
- 4). Set the Spectrum Analyzer as RBW = 100 KHz, VBW = 300 KHz, Span = wide enough to capture the peaks of two adjacent channels, Sweep = auto.
- 5). Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

20dB bandwidth test procedure:

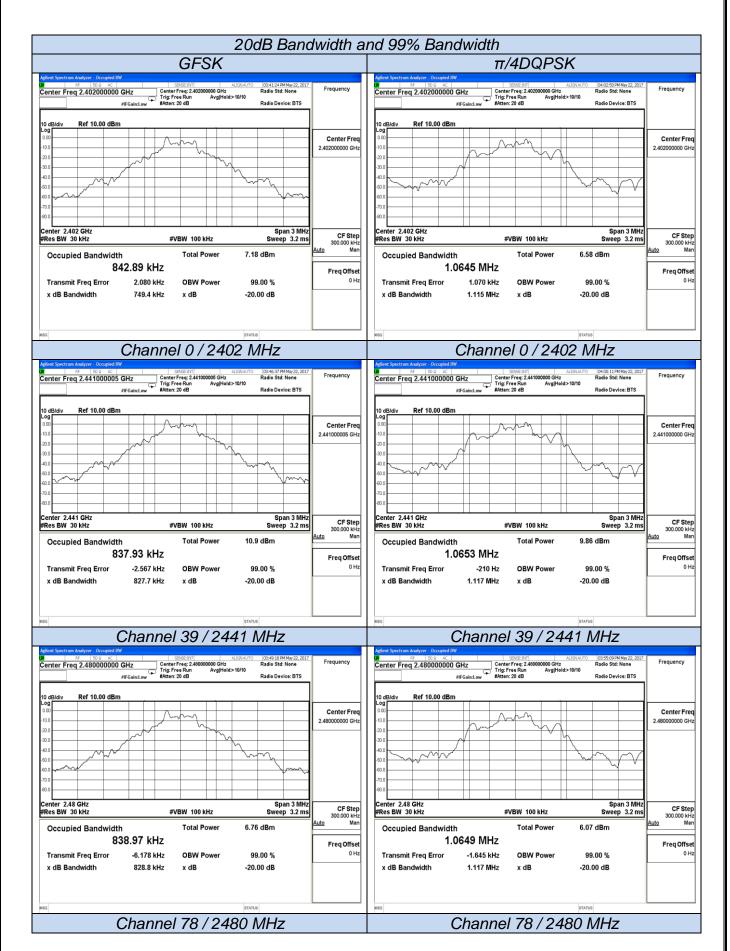
- 1). Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel.
- 2). RBW = 30 KHz, VBW = 100 KHz.
- 3). Detector function = peak.
- 4). Trace = max hold.

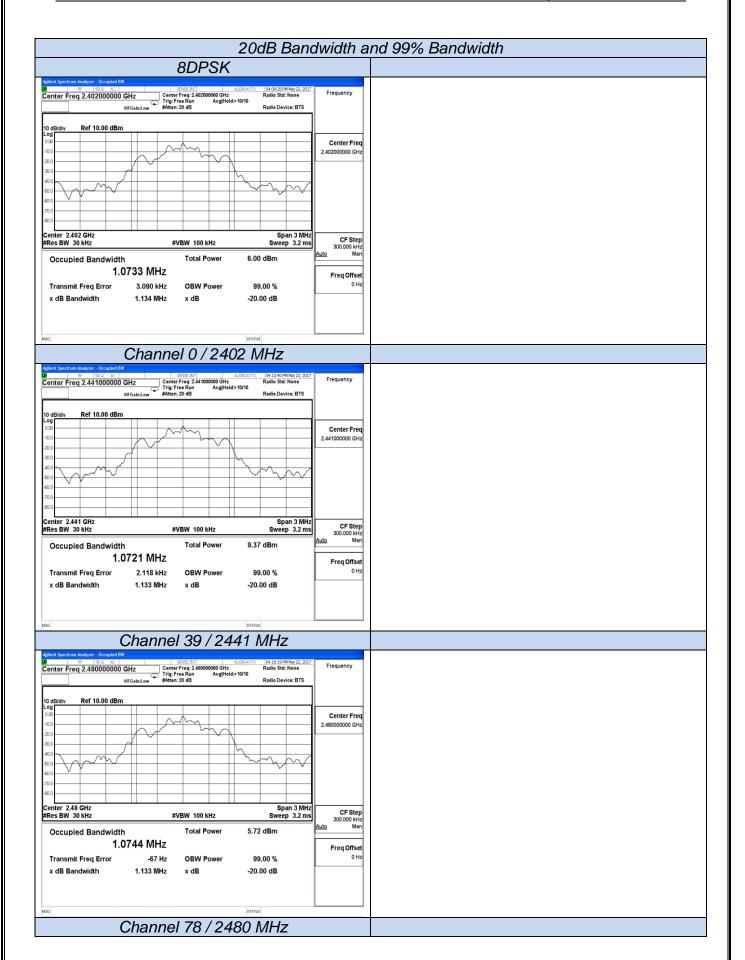
6.2.4 Test Results

6.2.4.1 20dB Bandwidth

Test Mode	Channel Frequency		Measured Bandwidth (KHz)		Limits	Verdict
rest wode	Channel	(MHz)	99%	20dB	(KHz)	verdict
	0	2402	842.89	749.40		
GFSK	39	2441	837.93	827.70	No Limits	PASS
	78	2480	838.97	828.80		
π/4DQPSK	0	2402	1064.50	1115.00		
	39	2441	1065.30	1117.00	No Limits	PASS
	78	2480	1064.90	1117.00		
8DPSK	0	2402	1073.30	1134.00		
	39	2441	1072.10	1133.00	No Limits	PASS
	78	2480	1074.40	1133.00		

- 1. Measured bandwidth at difference Packet Type for each mode and recorded worst case for each mode.
- 2. Worst case data at DH5 for GFSK, 2DH5 for π/4DQPSK, 3DH5 for 8DPSK modulation type;
- 3. Please refer following test plots;

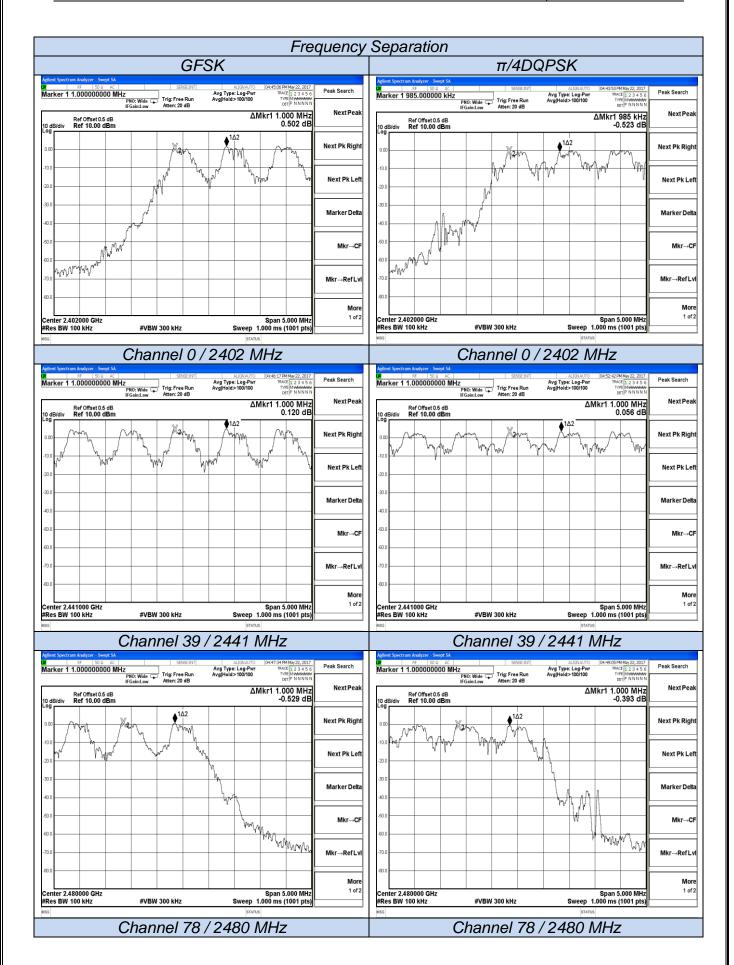


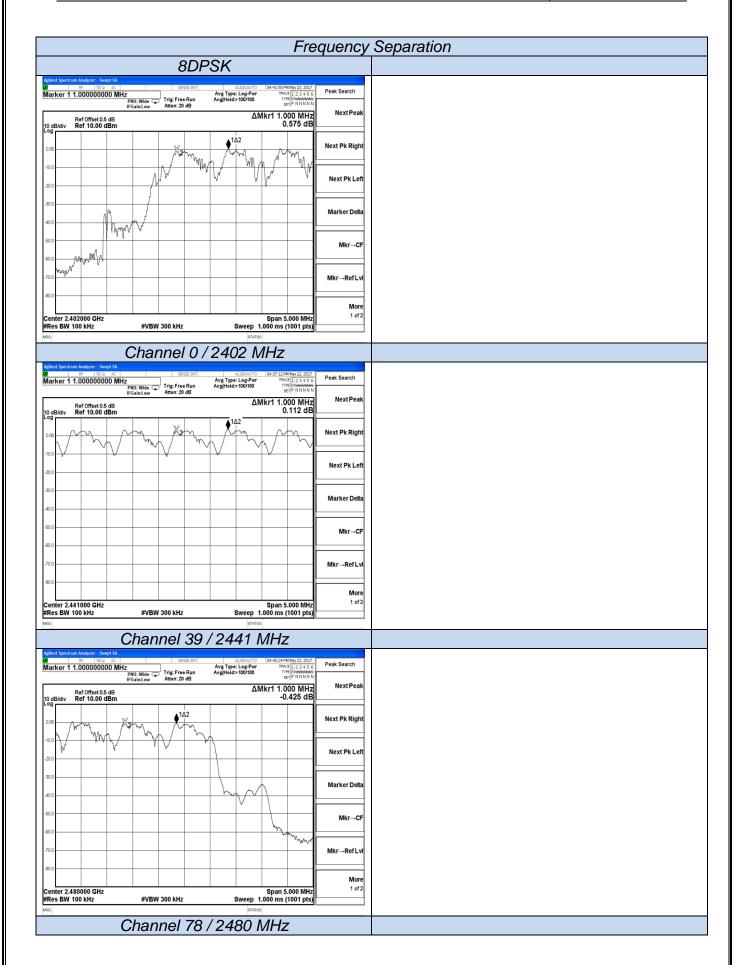


6.2.4.2 Frequency Separation

The Measurement Result With 1Mbps For GFSK Modulation						
Channel	20dB Bandwidth Channel Separation Limit (KHz) (MHz) (KHz)		Result			
Low	749.40	1.000	≥749.40	Pass		
Middle	827.70	1.000	≥827.70	Pass		
High	828.80	1.000	≥828.80	Pass		
The	Measurement Resul	It With 2Mbps For $\pi/4$	-DQPSK Modulati	on		
Channel	20dB Bandwidth (KHz)	Channel Separation (MHz)	Limit (KHz)	Result		
Low	1115.00	0.985	≥743.33	Pass		
Middle	1117.00	1.000	≥744.67	Pass		
High	1117.00	1.000	≥744.67	Pass		
The Measurement Result With 3Mbps For 8-DPSK Modulation						
Channel	20dB Bandwidth (KHz)	Channel Separation (MHz)	Limit (KHz)	Result		
Low	1134.00	1.000	≥756.00	Pass		
Middle	1133.00	1.000	≥755.33	Pass		
High	1133.00	1.000	≥755.33	Pass		

- 1. Please refer to following plots;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 3. Worst case data at DH5 for GFSK, 2DH5 for π/4-DQPSK, 3DH5 for 8DPSK modulation type;



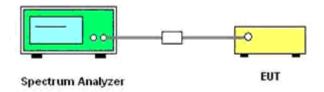


6.3 Number of Hopping Frequency

6.3.1 Limit

According to §15.247(a)(1)(ii) or A8.1 (d), Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

6.3.2 Block Diagram of Test Setup



6.3.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- 4). Set the Spectrum Analyzer as RBW = 1 MHz, VBW=1MHz.
- 5). Max hold, view and count how many channel in the band.

6.3.4 Test Results

Test Mode	Measurement Result (No. of Channels)	Limit (No. of Channels)	Result
GFSK	79	≥15	PASS
π/4DQPSK	79	≥15	PASS
8DPSK	79	≥15	PASS

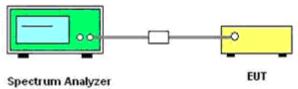
- 1. Test results including cable loss;
- 2. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 3. Worst case data at DH5 for GFSK, 2DH5 for π/4DQPSK, 3DH5 for 8DPSK modulation type;
- 4. Record test plots only for GFSK;
- 5. Please refer following test plots;

6.4 Time of Occupancy (Dwell Time)

6.4.1 Limit

According to §15.247(a)(1)(iii) or A8.1 (d), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

6.4.2 Block Diagram of Test Setup



6.4.3 Test Procedure

- 1). Place the EUT on the table and set it in transmitting mode.
- 2). Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- 3). Set center frequency of Spectrum Analyzer = operating frequency.
- 4). Set the Spectrum Analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- 5). Repeat above procedures until all frequency measured was complete.

6.4.4 Test Results

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

The duration for dwell time calculation: 0.4[s]*hopping number=0.4[s]*79[ch] =31.6[s*ch];

The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.

The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is 1600/6=266.67 [ch*hop/s]

The hops per second on one channel: 266.67 [ch*hops/s]/79 [ch] =3.38 [hop/s];

The total hops for all channels within the dwell time calculation duration: 3.38 [hop/s]*31.6[s*ch]=106.67

The dwell time for all channels hopping: 106.67 [hop*ch]*Burst Width [ms/hop/ch].

Mode	Frequency (MHz)	Burst Type	Pulse Width (ms)	Dwell Time (S)	Limit (S)	Verdict
		DH1	0.368	0.118	0.4	PASS
GFSK	2441	DH3	1.624	0.260	0.4	PASS
		DH5	2.868	0.306	0.4	PASS
π/4-DQPSK	2441	2DH1	0.376	0.120	0.4	PASS
		2DH3	1.628	0.260	0.4	PASS
		2DH5	2.876	0.307	0.4	PASS
8DPSK		3DH1	0.372	0.119	0.4	PASS
	2441	3DH3	1.628	0.260	260 0.4 PASS	PASS
		3DH5	2.876	0.307	0.4	PASS

Remark:

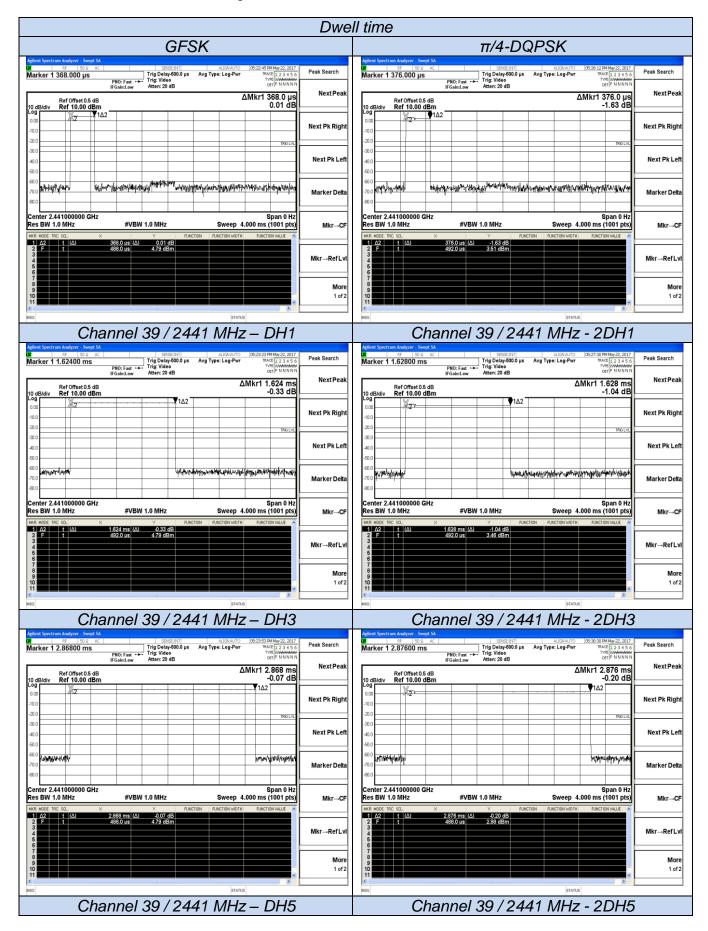
- 1. Test results including cable loss;
- 2. Please refer to following plots;
- 3. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 4. Dwell Time Calculate formula:

DH1: Dwell time=Pulse time (ms) \times (1600 \div 2 \div 79) \times 31.6 Second

DH3: Dwell time=Pulse time (ms) \times (1600 \div 4 \div 79) \times 31.6 Second

DH5: Dwell time=Pulse Time (ms) \times (1600 \div 6 \div 79) \times 31.6 Second

5. Measured at low, middle and high channel, recorded worst at middle channel;



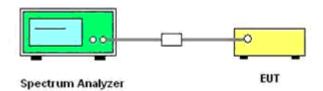


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6.5.1 Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required.

6.5.2 Block Diagram of Test Setup



6.5.3 Test Procedure

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 300 KHz.

Measurements are made over the 9 KHz to 26.5GHz range with the transmitter set to the lowest, middle, and highest channels

6.5.4 Test Results of Conducted Spurious Emissions

No non-compliance noted. Only record the worst test result (TX-GFSK) in this report. The test data refer to the following page.

Test Mode	Channel	Frequency (MHz)	Spurious RF Conducted Emission (dBc)	Limits (dBc)	Verdict
	0	2402	<-20		
GFSK	39	2441	<-20	-20	PASS
	78	2480	<-20		
π/4-DQPSK	0	2402	<-20		
	39	2441	<-20	-20	PASS
	78	2480	<-20		
8DPSK	0	2402	<-20		
	39	2441	<-20	-20	PASS
	78	2480	<-20		

- 1. Test results including cable loss;
- 2. Please refer to following plots;
- 3. Measured at difference Packet Type for each mode and recorded worst case for each mode.
- 4. Worst case data at DH5 for GFSK, 2DH5 for π/4-DQPSK, 3DH5 for 8DPSK modulation type;

