

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

Sunny Deng

TEST REPORT

FCC Rules Part 15.247

Report Reference No.....: MTEB23070044-R1

FCC ID.....: HLESP320B

Compiled by

Supervised by

(position+printed name+signature)..: Test Engineer Sunny Deng

Approved by

(position+printed name+signature)..: Manager Yvette Zhou

Date of issue...... July 05,2023

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... Unitech Electronics Co., Ltd.

City, Taiwan

Test specification/ Standard.....: FCC Rules Part 15.247

TRF Originator...... Shenzhen Most Technology Service Co., Ltd.

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Test item description.....: MobilePrinter

Modulation Type...... GFSK, π /4DQPSK,8-DPSK Operation Frequency...... From 2402MHz to 2480MHz

Hardware Version...... RPP320N MB BWU V1.3 221104

ESC)_F4R2_V2.20_221228.bin

Rating..... DC 5V (by Adapter)

DC 7.4V (by Battery)

Result.....: PASS

Report No.: MTEB23070044-R1 Page 2 of 57

TEST REPORT

Equipment under Test : MobilePrinter

Model /Type : SP320

Listed Models N/A

Remark N/A

Applicant : Unitech Electronics Co., Ltd.

Address : 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei

City, Taiwan

Manufacturer : Unitech Electronics Co., Ltd.

Address : 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei

City, Taiwan

Test Result:	PASS
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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.

Contents

1 REVISION HISTORY	4
2 TEST STANDARDS	5
3 SUMMARY	6
3.1 General Remarks	
3.2 Product Description	
3.3 Equipment Under Test	
3.5 EUT operation mode	
3.6 Block Diagram of Test Setup	7
3.7 Test Item (Equipment Under Test) Description*	
3.8 Auxiliary Equipment (AE) Description	
3.9 Antenna Information*	
3.10 Related Submittal(s) / Grant (s)	8
3.11 Modifications	
3.12 EUT configuration	8
4 TEST ENVIRONMENT	9
4.1 Address of the test laboratory	
4.2 Environmental conditions	
4.3 Summary of measurement results	
4.4 Statement of the measurement uncertainty	
4.5 Equipments Osed during the rest	11
5 TEST CONDITIONS AND RESULTS	12
5.1 AC Power Conducted Emission	
5.2 Radiated Emission	
5.4 20dB Bandwidth	
5.5 Frequency Separation	
5.6 Number of hopping frequency	
5.7 Time of Occupancy (Dwell Time)	26
5.8 Spurious RF Conducted Emission	
5.9 Pseudorandom Frequency Hopping Sequence	
5.10 Antenna Requirement	29
6 TEST SETUP PHOTOS OF THE EUT	3 0
7 PHOTOS OF THE EUT	31
APPENDIX I. Conducted Peak Output Power	
APPENDIX II. 99% Bandwidth	
APPENDIX III. 20dB Bandwidth	
APPENDIX IV. Carrier Frequencies Separation	
APPENDIX V. Conducted Out Of Band Emission	39
APPENDIX VI. Duty Cycle	47
APPENDIX VII. Dwell Time	52
APPENDIX VIII. Number Of Hopping Channel	56

Report No.: MTEB23070044-R1 Page 4 of 57

1 Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.07.05	Initial Issue	Alisa Luo

Report No.: MTEB23070044-R1 Page 5 of 57

2 TEST STANDARDS

The tests were performed according to following standards:

<u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz. <u>ANSI C63.10-2013</u>: American National Standard for Testing Unlicensed Wireless Devices

Report No.: MTEB23070044-R1 Page 6 of 57

3 SUMMARY

3.1 General Remarks

Date of receipt of test sample		2023.06.28
Testing commenced on	:	2023.06.29
Testing concluded on	:	2023.07.05

3.2 Product Description

Product Name:	MobilePrinter	
Model/Type reference:	SP320	
Power Supply:	DC 5V (by Adapter) DC 7.4V (by Battery)	
Testing sample ID:	MTYP01968	
Bluetooth :		
Supported Type:	Bluetooth BR/EDR	
Modulation:	GFSK, π/4DQPSK, 8-DPSK	
Operation frequency:	ration frequency: 2402MHz~2480MHz	
Channel number:	79	
Channel separation:	1MHz	
Antenna type:	PCB antenna	
Antenna gain:	-0.58dBi	

3.3 Equipment Under Test

Power supply system utilised

Power supply voltage	:	0	230V / 50 Hz	0	120V / 60Hz
		0	12 V DC	0	24 V DC
			Other (specified in blank below)		

1.DC 5V (by Adapter) 2.DC 7.4V (by Battery)

3.4 Short description of the Equipment under Test (EUT)

This is a MobilePrinter For more details, refer to the user's manual of the EUT.

Report No.: MTEB23070044-R1 Page 7 of 57

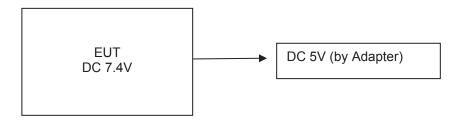
3.5 EUT operation mode

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing .There are 79 channels provided to the EUT and Channel 00/39/78 were selected to test.

Operation Frequency:

Channel	Frequency (MHz)
00	2402
01	2403
i:	i:
38	2440
39	2441
40	2442
:	i i
77	2479
78	2480

3.6 Block Diagram of Test Setup



3.7 Test Item (Equipment Under Test) Description*

Short designation	EUT Name	EUT Description	Serial number	Hardware status	Software status
EUT A	Adapter	1	ZL- 010A0502000US01	1	1
EUT B					

^{*:} declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8 Auxiliary Equipment (AE) Description

AE short designation	EUT Name (if available)	EUT Description	Serial number (if available)	Software (if used)
AE 1				
AE 2	-			

3.9 Antenna Information*

Short designation	Antenna Name	Antenna Type	Frequency Range	Serial number	Antenna Peak Gain
Antenna 1		PCB antenna	2.4 – 2.5 GHz		-0.58dBi
Antenna 2					

^{*:} declared by the applicant.

Report No.: MTEB23070044-R1 Page 8 of 57

3.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for the device filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3.11 Modifications

No modifications were implemented to meet testing criteria.

3.12 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- O Supplied by the lab

L	ADAPTER	M/N:	ZL-010A0502000US01
			Shenzhen zhongli Power Technology
		Manufacturer:	Co.,Ltd

Report No.: MTEB23070044-R1 Page 9 of 57

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China. 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.

Test Facility

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

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. 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.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.2 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Radiated Emission:

tadiated Elimetron.					
Temperature:	23 ° C				
Humidity:	48 %				
Atmospheric pressure:	950-1050mbar				

AC Main Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Conducted testing:

Temperature:	24 ° C
Humidity:	45 %
Atmospheric pressure:	950-1050mbar

Report No.: MTEB23070044-R1 Page 10 of 57

4.3 Summary of measurement results

Test Specification clause	Test case	Test Mode	Test Channel		orded eport	Test result
§15.247(a)(1)	Carrier Frequency separation	GFSK П/4DQPSK 8DPSK		GFSK П/4DQPSK 8DPSK	⊠ Middle	Compliant
§15.247(a)(1)	Number of Hopping channels	GFSK П/4DQPSK 8DPSK	⊠ Full	GFSK 8DPSK	⊠ Full	Compliant
§15.247(a)(1)	Time of Occupancy (dwell time)	GFSK П/4DQPSK 8DPSK		GFSK П/4DQPSK 8DPSK	⊠ Middle	Compliant
§15.247(a)(1)	Spectrumbandwidth of aFHSS system20dB bandwidth	GFSK П/4DQPSK 8DPSK		GFSK П/4DQPSK 8DPSK		Compliant
§15.247(b)(1)	Maximum outputpower	GFSK П/4DQPSK 8DPSK		GFSK П/4DQPSK 8DPSK		Compliant
§15.247(d)	Band edgecompliance conducted	GFSK П/4DQPSK 8DPSK	✓ Lowest✓ Highest	GFSK П/4DQPSK 8DPSK		Compliant
§15.205	Band edgecompliance radiated	GFSK П/4DQPSK 8DPSK		GFSK П/4DQPSK 8DPSK		Compliant
§15.247(d)	TX spuriousemissions conducted	GFSK П/4DQPSK 8DPSK		GFSK П/4DQPSK 8DPSK		Compliant
§15.247(d)	TX spuriousemissions radiated	GFSK П/4DQPSK 8DPSK		GFSK		Compliant
§15.209(a)	TX spurious Emissions radiated Below 1GHz	GFSK П/4DQPSK 8DPSK		GFSK	⊠ Middle	Compliant
§15.107(a) §15.207	Conducted Emissions 9KHz-30 MHz	GFSK П/4DQPSK 8DPSK		GFSK	⊠ Middle	N/A

Remark:

- 1. The measurement uncertainty is not included in the test result.
- 2. We tested all test mode and recorded worst case in report

4.4 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 Shenzhen Most Technology Service Co., Ltd. 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.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10 dB	(1)
Radiated Emission	1~18GHz	4.32 dB	(1)
Radiated Emission	18-40GHz	5.54 dB	(1)
Conducted Disturbance	0.15~30MHz	3.12 dB	(1)

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

Report No.: MTEB23070044-R1 Page 11 of 57

4.5 Equipments Used during the Test

Equipment	Manufacturer	Model No.	Serial No.	Firmware versions	Last Cal.	Cal. Interval
L.I.S.N.	R&S	ENV216	100093	1	2023/03/17	1 Year
Three-phase artificial power network	Schwarzback Mess	NNLK8129	8129178	1	2023/03/17	1 Year
Receiver	R&S	ESCI	100492	V3.0-10-2	2023/03/17	1 Year
Receiver	R&S	ESPI	101202	V3.0-10-2	2023/03/17	1 Year
Spectrum analyzer	Agilent	9020A	MT-E306	A14.16	2023/03/17	1 Year
Bilong Antenna	Sunol Sciences	JB3	A121206	1	2023/03/17	1 Year
Horn antenna	HF Antenna	HF Antenna	MT-E158	/	2023/03/17	1 Year
Loop antenna	Beijing Daze	ZN30900B	1	/	2023/03/17	1 Year
Horn antenna	R&S	OBH100400	26999002	1	2023/03/17	1 Year
Wireless Communication Test Set	R&S	CMW500	/	CMW-BASE- 3.7.21	2023/03/17	1 Year
Spectrum analyzer	R&S	FSP	100019	V4.40 SP2	2023/03/17	1 Year
High gain antenna	Schwarzbeck	LB-180400KF	MT-E389	/	2023/03/17	1 Year
Preamplifier	Schwarzbeck	BBV 9743	MT-E390	1	2023/03/17	1 Year
Pre-amplifier	EMCI	EMC051845S E	MT-E391	1	2023/03/17	1 Year
Pre-amplifier	Agilent	83051A	MT-E392	1	2023/03/17	1 Year
High pass filter unit	Tonscend	JS0806-F	MT-E393	/	2023/03/17	1 Year
RF Cable(below1GHz)	Times	9kHz-1GHz	MT-E394	1	2023/03/17	1 Year
RF Cable(above 1GHz)	Times	1-40G	MT-E395	/	2023/03/17	1 Year
RF Cable (9KHz-40GHz)	Tonscend	170660	N/A	/	2023/03/17	1 Year
	L.I.S.N. Three-phase artificial power network Receiver Receiver Spectrum analyzer Bilong Antenna Horn antenna Loop antenna Horn antenna Wireless Communication Test Set Spectrum analyzer High gain antenna Preamplifier Pre-amplifier Pre-amplifier High pass filter unit RF Cable(below1GHz) RF Cable(above 1GHz) RF Cable	L.I.S.N. R&S Three-phase artificial power network Receiver R&S Receiver R&S Spectrum analyzer Agilent Bilong Antenna Sunol Sciences Horn antenna HF Antenna Loop antenna Beijing Daze Horn antenna R&S Wireless Communication Test Set Spectrum analyzer R&S High gain antenna Schwarzbeck Pre-amplifier Schwarzbeck Pre-amplifier EMCI Pre-amplifier Agilent High pass filter unit Tonscend RF Cable(below1GHz) RF Cable RF Cable Tonscend Tonscend Tonscend Tonscend	L.I.S.N. R&S ENV216 Three-phase artificial power network Receiver R&S ESCI Receiver R&S ESPI Spectrum analyzer Agilent 9020A Bilong Antenna Sunol Sciences JB3 Horn antenna HF Antenna HF Antenna Loop antenna Beijing Daze ZN30900B Horn antenna R&S OBH100400 Wireless Communication Test Set Spectrum analyzer R&S FSP High gain antenna Schwarzbeck LB-180400KF Pre-amplifier Schwarzbeck BBV 9743 Pre-amplifier Agilent 83051A High pass filter unit Tonscend JS0806-F RF Cable(below1GHz) Times 9kHz-1GHz RF Cable(above 1GHz) Tonscend Tonscend 170660	L.I.S.N. R&S ENV216 100093	L.I.S.N. R&S ENV216 100093 / Three-phase artificial power network Receiver R&S ESCI 100492 V3.0-10-2 Receiver R&S ESCI 100492 V3.0-10-2 Receiver R&S ESPI 101202 Spectrum analyzer Agilent Bilong Antenna Sunol Sciences JB3 A121206 Horn antenna HF Antenna HF Antenna HF Antenna HF Antenna MT-E158 Loop antenna Beijing Daze ZN30900B / Wireless Communication Test Set Spectrum analyzer R&S CMW500 / Spectrum analyzer R&S CMW500 / Spectrum analyzer R&S CMW500 / High gain antenna Schwarzbeck LB-180400KF MT-E389 Pre-amplifier Schwarzbeck BBV 9743 MT-E390 Pre-amplifier Agilent Agilent B3051A MT-E392 / High pass filter unit Tonscend JS0806-F MT-E393 RF Cable(below1GHz) Times 1-40G MT-E395 / MT-E396 MT-E395 / MT-E395 / MT-E396 MT-E395 / MT-E396 MT-E	Lish Res Equipment Manufacturer Model No. Serial No. Versions Last Cal.

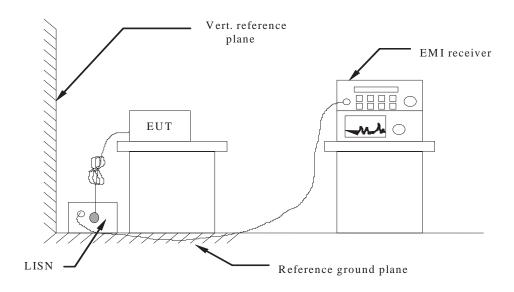
Note: The Cal.Interval was one year.

Report No.: MTEB23070044-R1 Page 12 of 57

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC 5V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

Frequency range (MHz)	Limit (dBuV)				
Frequency range (wiriz)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			
* Decreases with the logarithm of the frequency.					

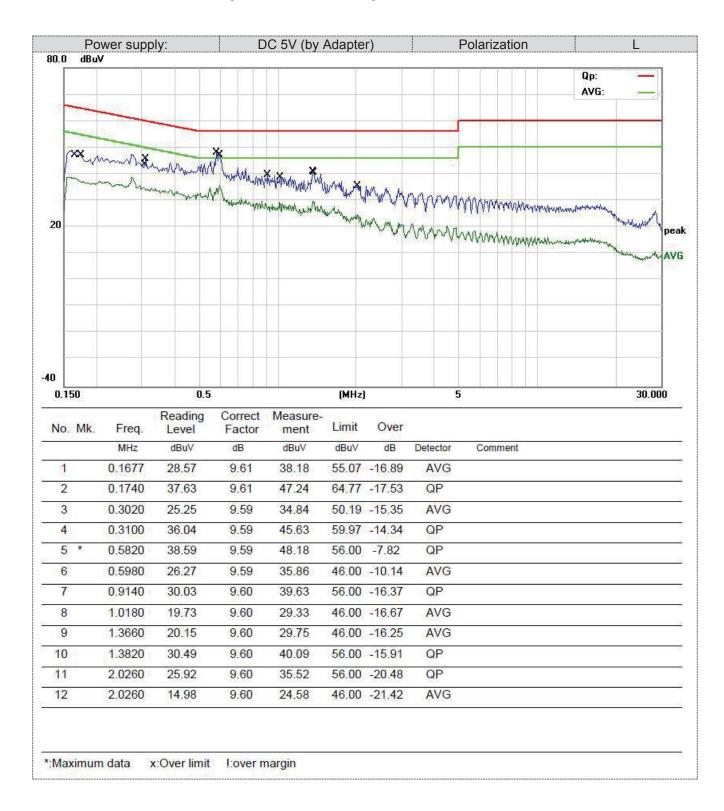
TEST RESULTS

Report No.: MTEB23070044-R1 Page 13 of 57

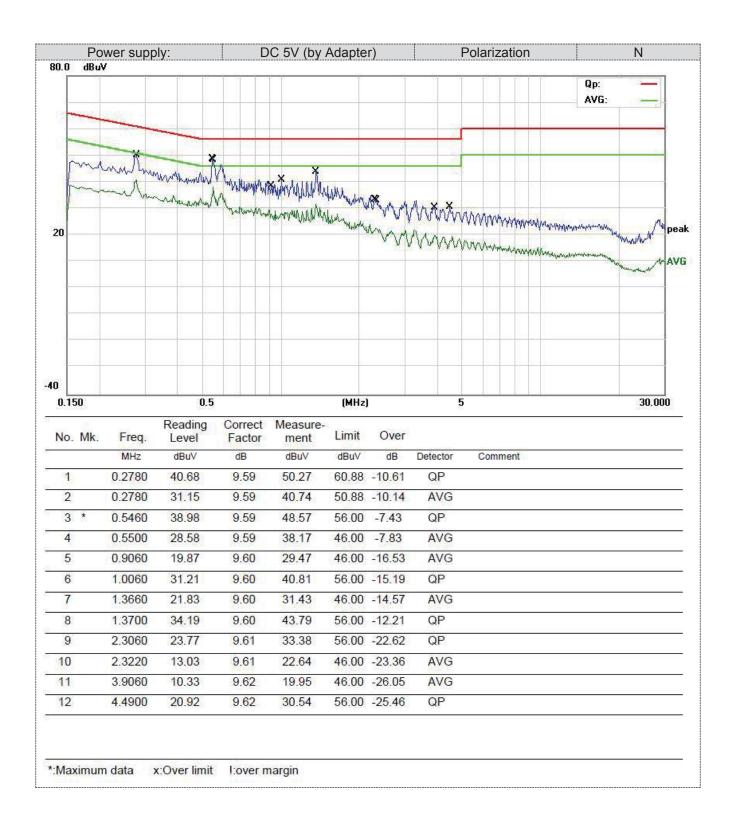
Remark:

1. All modes were test at Low, Middle, and High channel; only the worst result of Middle Channel($\pi/4$ DQPSK) was reported as below:

2. Remark: Result=Reading value+Factor, and Margin=Limit- Result



Report No.: MTEB23070044-R1 Page 14 of 57

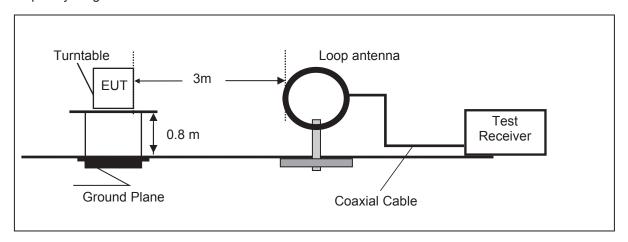


Report No.: MTEB23070044-R1 Page 15 of 57

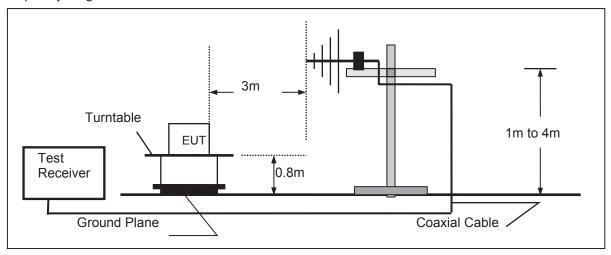
5.2 Radiated Emission

TEST CONFIGURATION

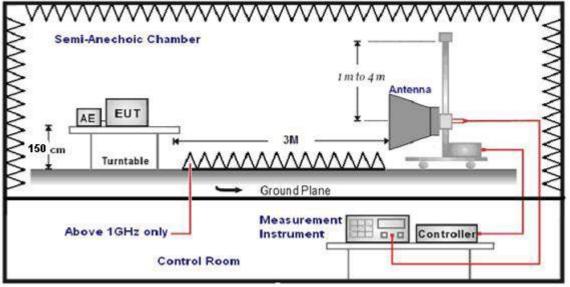
Frequency range 9 KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



Report No.: MTEB23070044-R1 Page 16 of 57

TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Ultra-Broadband Antenna	3
1GHz-18GHz	Double Ridged Horn Antenna	3
18GHz-25GHz	Horn Anternna	1

7. Setting test receiver/spectrum as following table states:

Test Frequency range	Test Receiver/Spectrum Setting	Detector
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP
	Peak Value: RBW=1MHz/VBW=3MHz,	
1GHz-40GHz	Sweep time=Auto Average Value: RBW=1MHz/VBW=10Hz,	

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

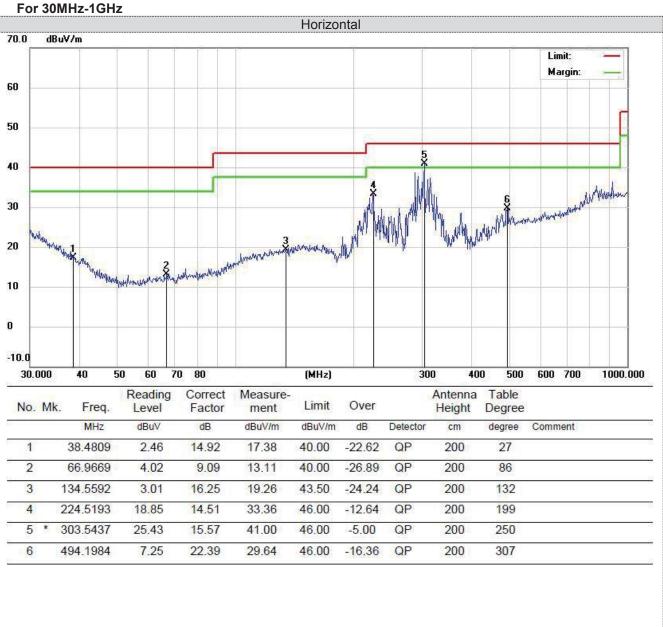
Report No.: MTEB23070044-R1 Page 17 of 57

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)
1.705-30	3	20log(30)+ 40log(30/3)	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

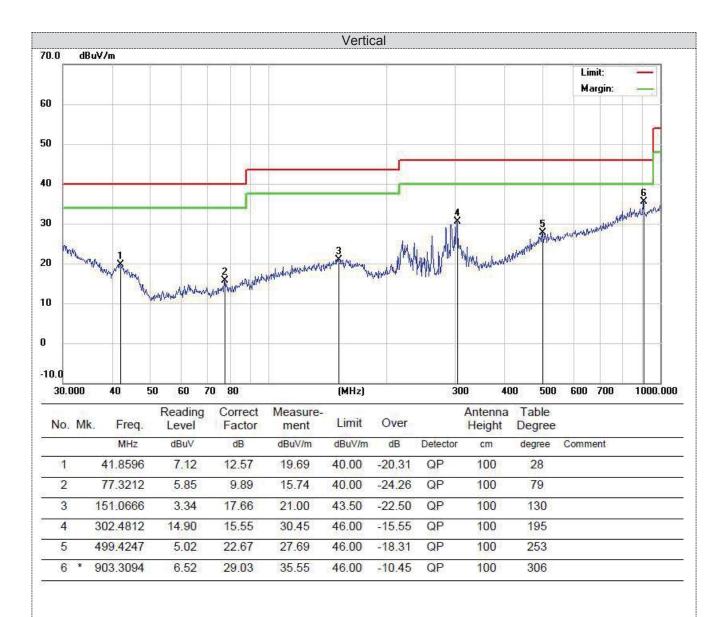
TEST RESULTS

Remark:

- 1. This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. We measured Radiated Emission at GFSK, $\pi/4$ DQPSK, 8-DPSK mode from 9 KHz to 25GHz and recorded worst case at $\pi/4$ DQPSK 2DH5 mode.
- 3. For below 1GHz testing recorded worst at 8DPSK 3DH5 middle channel.
- 4. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- 5. Remark: Result=Reading value+Factor



*:Maximum data x:Over limit I:over margin Report No.: MTEB23070044-R1 Page 19 of 57



^{*:}Maximum data x:Over limit !:over margin

Report No.: MTEB23070044-R1 Page 20 of 57

For 1GHz to 25GHz

Note: GFSK, π/4 DQPSK and 8DPSK all have been tested, only worse case 8DPSK is reported.

8DPSK (above 1GHz)

Frequency(MHz):		24	02	Polarity:			HORIZONTAL			
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	1	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804	52.48	PK	74	21.52		50.58	31.42	6.98	36.5	1.9
4804	43.25	AV	54	10.75		41.35	31.42	6.98	36.5	1.9
7206	51.84	PK	74	22.16		41.24	37.03	8.87	35.3	10.6
7206	41.32	AV	54	12.68		30.72	37.03	8.87	35.3	10.6

Frequency(MHz):			24	02	Polarity: VERTICAL				
Frequency (MHz)	_	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804	54.47	PK	74	19.53	52.57	31.42	6.98	36.5	1.9
4804	44.6	AV	54	9.4	42.7	31.42	6.98	36.5	1.9
7206	54.53	PK	74	19.47	43.93	37.03	8.87	35.3	10.6
7206	41.15	AV	54	12.85	30.55	37.03	8.87	35.3	10.6

Frequency(MHz):		2441		Polarity:		HORIZONTAL			
Frequency (MHz)	Le	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4882	56.67	PK	74	17.33	54.61	30.98	7.58	36.5	2.06
4882	43.39	AV	54	10.61	41.33	30.98	7.58	36.5	2.06
7323	51.7	PK	74	22.3	40.78	37.66	8.56	35.3	10.92
7323	42.66	AV	54	11.34	31.74	37.66	8.56	35.3	10.92

Frequency(MHz):		2441		Polarity:		VERTICAL			
Frequency (MHz)	Emis Lev (dBu		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4882	53.31	PK	74	20.69	51.25	30.98	7.58	36.5	2.06
4882	45.05	AV	54	8.95	42.99	30.98	7.58	36.5	2.06
7323	53.53	PK	74	20.47	42.61	37.66	8.56	35.3	10.92
7323	42.92	AV	54	11.08	32	37.66	8.56	35.3	10.92

Frequency(MHz):		2480		Polarity:		HORIZONTAL			
Frequency (MHz)	_	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960	57.31	PK	74	16.69	54.24	31.47	7.8	36.2	3.07
4960	44.2	AV	54	9.8	41.13	31.47	7.8	36.2	3.07
7440	56.22	PK	74	17.78	44.48	38.32	8.72	35.3	11.74
7440	42.08	PK	54	11.92	30.34	38.32	8.72	35.3	11.74

Frequency(MHz):		2480		Polarity:		VERTICAL			
Frequency (MHz)	_	ssion vel V/m)	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960	56.57	PK	74	17.43	53.5	31.47	7.8	36.2	3.07
4960	47.68	AV	54	6.32	44.61	31.47	7.8	36.2	3.07
7440	52.82	PK	74	21.18	41.08	38.32	8.72	35.3	11.74
7440	42.46	PK	54	11.54	30.72	38.32	8.72	35.3	11.74

Report No.: MTEB23070044-R1 Page 21 of 57

REMARKS:

- Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
- Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier Margin value = Limit value- Emission level. 2. 3. 4. 5.
- -- Mean the PK detector measured value is below average limit.

 The other emission levels were very low against the limit.

Results of Band Edges Test (Radiated)

Note: GFSK, Pi/4 DQPSK and 8DPSK all have been tested, only worse case 8DPSK is reported.

8DPSK

Frequency(MHz):		2402		Polarity:		HORIZONTAL			
Frequency (MHz)	Emis Lev (dBu	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390	57.79	PK	74	16.21	63.2	27.49	3.32	36.22	-5.41
2390	40.93	AV	54	13.07	46.34	27.49	3.32	36.22	-5.41
Freque	ncy(MHz)	:	24	02	Pola	arity:		VERTICAL	1
Frequency (MHz)	Emis Lev (dBu	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390	56.65	PK	74	17.35	62.06	27.49	3.32	36.22	-5.41
2390	40.6	AV	54	13.4	46.01	27.49	3.32	36.22	-5.41
Freque	ncy(MHz)	:	2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emis Lev (dBu	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.5	56.78	PK	74	17.22	62.29	27.45	3.38	36.34	-5.51
2483.5	41.8	AV	54	12.2	47.31	27.45	3.38	36.34	-5.51
Freque	Frequency(MHz):		24	80	Polarity:		VERTICAL		
Frequency (MHz)	Emis Lev (dBu	/el	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.5	55.8	PK	74	18.2	61.31	27.45	3.38	36.34	-5.51
2483.5	38.75	AV	54	15.25	44.26	27.45	3.38	36.34	-5.51

REMARKS:

- Emission level (dBuV/m) =Raw Value (dBuV)+Correction Factor (dB/m)
 Correction Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)- Pre-amplifier
- Margin value = Limit value- Emission level.
 -- Mean the PK detector measured value is below average limit.

Report No.: MTEB23070044-R1 Page 22 of 57

5.3 Maximum Peak Output Power

<u>Limit</u>

The Maximum Peak Output Power Measurement is 125mW (20.97).

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the powersensor.

Test Configuration



Test Results

See Appendix I

Report No.: MTEB23070044-R1 Page 23 of 57

5.4 20dB Bandwidth

Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30 KHz RBW and 100 KHz VBW.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

Test Configuration



Test Results

See Appendix III

Report No.: MTEB23070044-R1 Page 24 of 57

5.5 Frequency Separation

LIMIT

According to 15.247(a)(1), frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW.

TEST CONFIGURATION



TEST RESULTS

See Appendix IV

Report No.: MTEB23070044-R1 Page 25 of 57

5.6 Number of hopping frequency

<u>Limit</u>

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set spectrum analyzer start 2400MHz to 2483.5MHz with 100 KHz RBW and 300 KHz VBW.

Test Configuration



Test Results

See Appendix VIII

Report No.: MTEB23070044-R1 Page 26 of 57

5.7 Time of Occupancy (Dwell Time)

<u>Limit</u>

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.

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. Set center frequency of spectrum analyzer=operating frequency with 1MHz RBW and 1MHz VBW, Span 0Hz.

Test Configuration



Test Results

See Appendix VII

Report No.: MTEB23070044-R1 Page 27 of 57

5.8 Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and mwasure frequeny range from 9KHz to 25GHz.

LIMIT

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

Test Results

See Appendix V

Report No.: MTEB23070044-R1 Page 28 of 57

5.9 Pseudorandom Frequency Hopping Sequence

TEST APPLICABLE

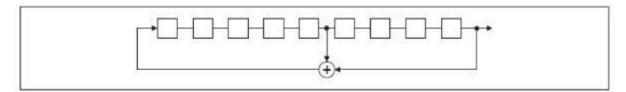
For 47 CFR Part 15C section 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence Requirement

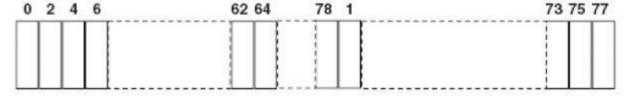
The pseudorandom frequency hopping sequence may be generated in a nice-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

Report No.: MTEB23070044-R1 Page 29 of 57

5.10 Antenna Requirement

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 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

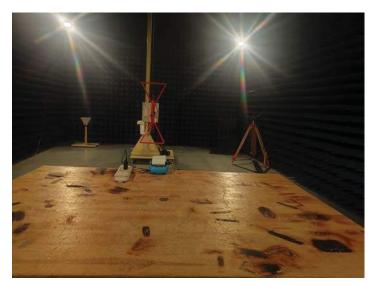
Antenna Connected Construction

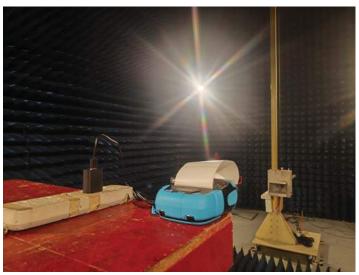
The directional gains of antenna used for transmitting is -0.58dBi, and the antenna is a PCB antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6 Test Setup Photos of the EUT







Report No.: MTEB23070044-R1 Page 31 of 57

7 Photos of the EUT

See photo report

Report No.: MTEB23070044-R1 Page 32 of 57

APPENDIX I. Conducted Peak Output Power

Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
		0	-3.316	0.466	None		PASS
GFSK	GFSK DH5	39	-2.588	0.551	None	30	PASS
		78	-1.522	0.704	None		PASS
		0	-2.255	0.595	None		PASS
π/4DQPSK	2-DH5	39	-1.745	0.669	None		PASS
		78	-0.758	0.840	None	20.97	PASS
		0	-1.953	0.638	None	20.97	PASS
8DPSK	3-DH5	39	-1.380	0.728	None		PASS
			78	-0.386	0.915	None	

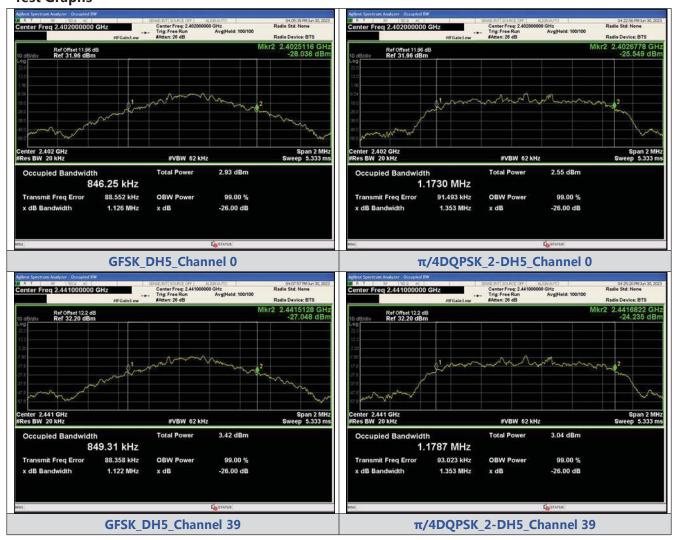
Report No.: MTEB23070044-R1 Page 33 of 57

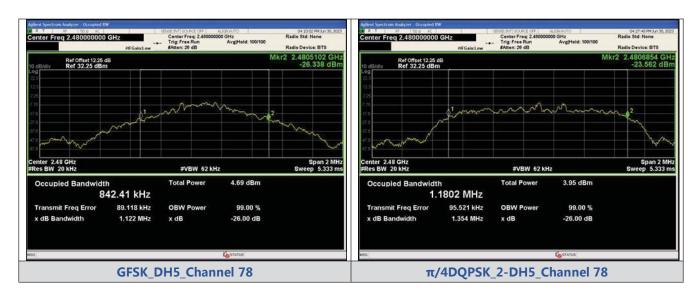
APPENDIX II.99% Bandwidth

Test Result

Modulation	Channel	99% BW (MHz)
	0	0.84625
GFSK	39	0.84931
	78	0.84241
	0	1.1730
π/4DQPSK	39	1.1787
	78	1.1802
	0	1.1914
8DPSK	39	1.1996
	78	1.1913

Test Graphs





Page 34 of 57



Report No.: MTEB23070044-R1 Page 35 of 57

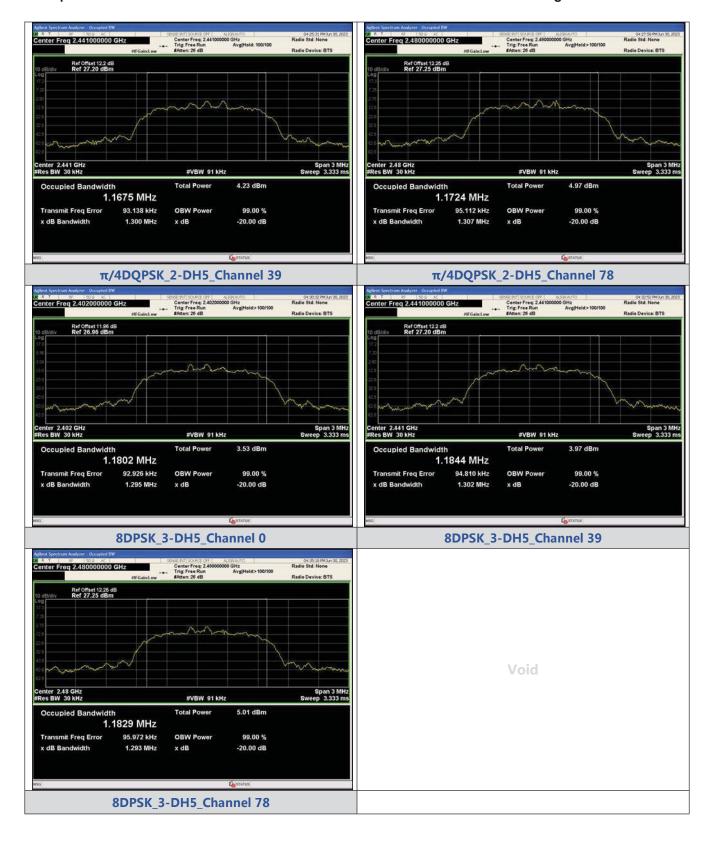
APPENDIX III. 20dB Bandwidth

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
	0	2402 MHz	0.9525
GFSK	39	2441 MHz	0.9525
	78	2480 MHz	0.9497
	0	2402 MHz	1.302
π/4DQPSK	39	2441 MHz	1.300
	78	2480 MHz	1.307
	0	2402 MHz	1.295
8DPSK	39	2441 MHz	1.302
	78	2480 MHz	1.293

Test Graphs



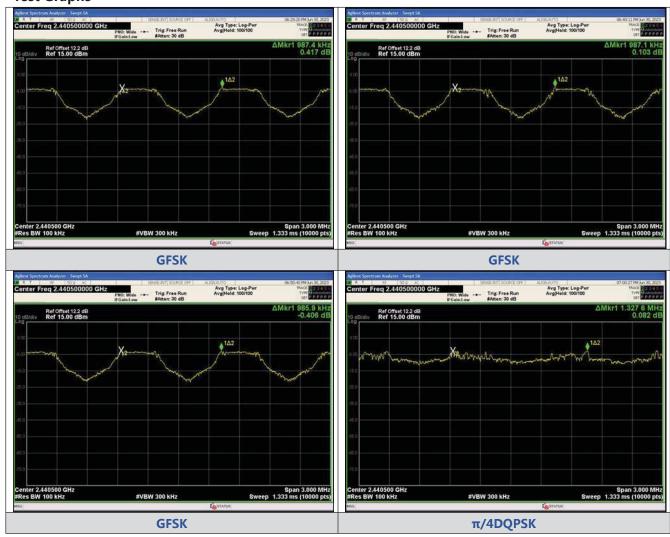


Report No.: MTEB23070044-R1 Page 37 of 57

APPENDIX IV. Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.943	2440.9304	0.9874	0.635	PASS
GFSK	DH5	2439.949	2440.9361	0.9871	0.635	PASS
GFSK	DH5	2439.9355	2440.9214	0.9859	0.633	PASS
π/4DQPSK	2-DH5	2439.928	2441.2556	1.3276	0.868	PASS
π/4DQPSK	2-DH5	2439.9421	2440.9337	0.9916	0.867	PASS
π/4DQPSK	2-DH5	2439.9448	2441.2592	1.3144	0.871	PASS
8DPSK	3-DH5	2440.2679	2441.2661	0.9982	0.863	PASS
8DPSK	3-DH5	2439.9463	2441.261	1.3147	0.868	PASS
8DPSK	3-DH5	2440.0855	2441.252	1.1665	0.862	PASS





Report No.: MTEB23070044-R1 Page 39 of 57

APPENDIX V. Conducted Out Of Band Emission

Test Result

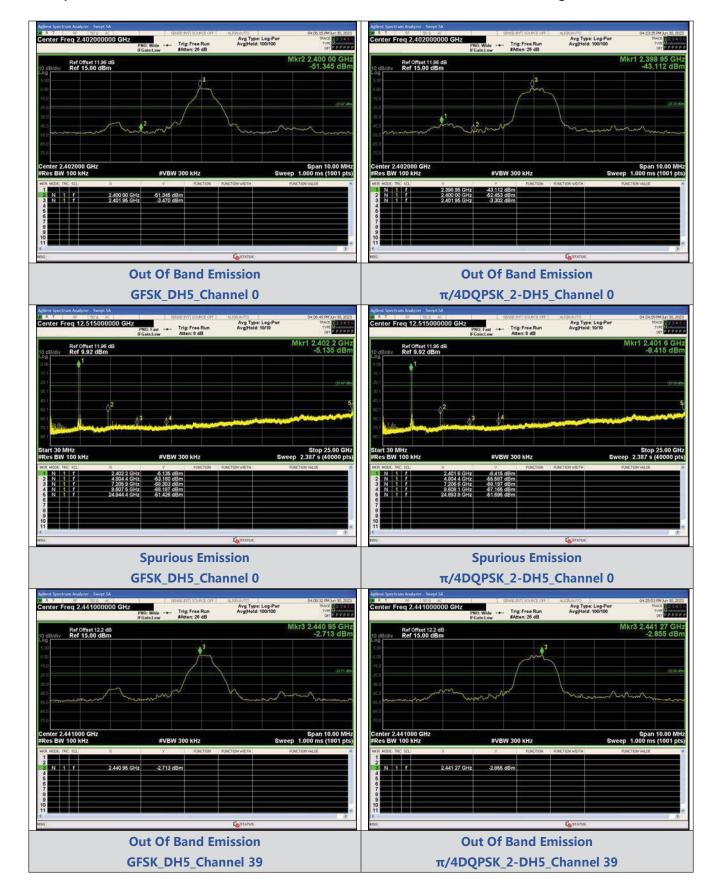
Non-Hopping

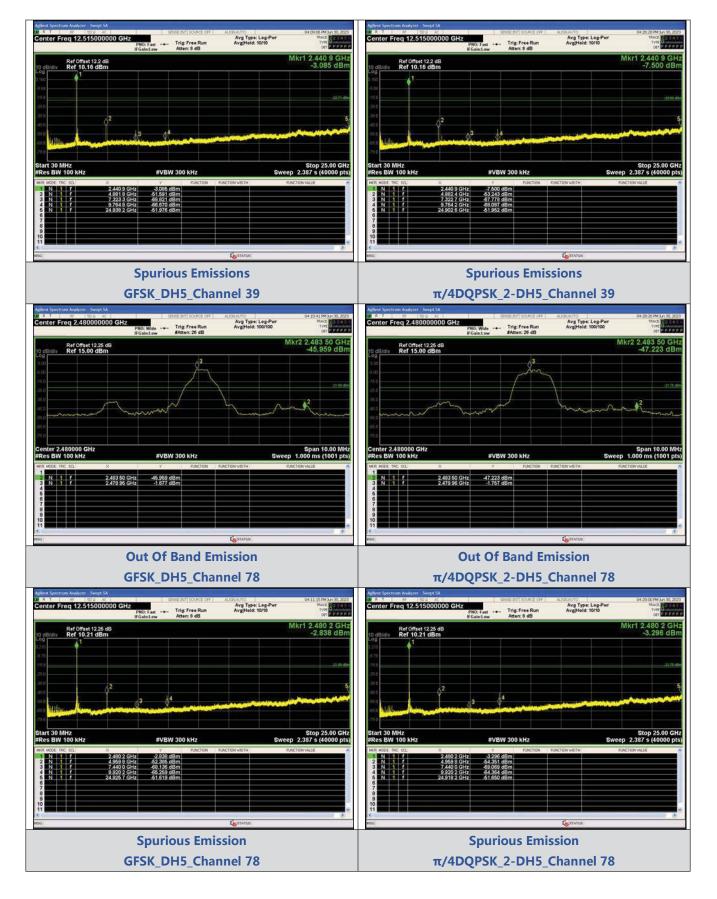
ТОП-ПОРРП	<u> </u>		ООВ	ООВ			
			Emission	Emission	Limit	Over Limit	
Modulation	Packet	Channel	Frequency	Level	(dBm)	(dB)	Result
			(MHz)	(dBm)			
			2400.00	-51.345	-23.47	-27.875	PASS
			2399.00	-42.809	-23.47	-19.339	PASS
		_	4804.40	-53.180	-23.47	-29.710	PASS
		0	7205.90	-68.303	-23.47	-44.833	PASS
			9607.50	-68.187	-23.47	-44.717	PASS
			24944.4	-51.426	-23.47	-27.956	PASS
			4881.79	-51.591	-22.71	-28.881	PASS
GFSK	DH5	20	7323.30	-68.822	-22.71	-46.111	PASS
		39	9764.80	-66.670	-22.71	-43.960	PASS
			24938.2	-51.976	-22.71	-29.266	PASS
		78	2483.50	-45.959	-21.68	-24	PASS
			4959.83	-52.385	-21.68	-30.705	PASS
			7440.03	-68.136	-21.68	-46.456	PASS
			9920.24	-65.259	-21.68	-43.579	PASS
			24925.7	-51.619	-21.68	-29.939	PASS
	2-DH5	0	2400.00	-52.453	-23.3	-29.153	PASS
			2398.95	-43.112	-23.3	-19.812	PASS
			4804.40	-55.587	-23.3	-32.287	PASS
			7206.60	-68.197	-23.3	-44.897	PASS
			9608.10	-67.165	-23.3	-43.865	PASS
			24893.9	-51.695	-23.3	-28.395	PASS
			4882.42	-53.243	-22.86	-30.383	PASS
π/4DQPSK		30	7322.67	-67.778	-22.86	-44.918	PASS
		39	9764.17	-68.087	-22.86	-45.227	PASS
			24902.6	-51.952	-22.86	-29.092	PASS
			2483.50	-47.223	-21.76	-25	PASS
			4959.83	-54.351	-21.76	-32.591	PASS
		78	7440.03	-69.069	-21.76	-47.309	PASS
			9920.24	-64.364	-21.76	-42.603	PASS
			24918.2	-51.650	-21.76	-29.890	PASS
			2400.00	-50.908	-23.25	-27.658	PASS
			2398.96	-44.000	-23.25	-20.750	PASS
8DPSK	3-DH5	0	4803.80	-55.431	-23.25	-32.181	PASS
			7205.30	-69.132	-23.25	-45.882	PASS
			9608.10	-69.407	-23.25	-46.157	PASS

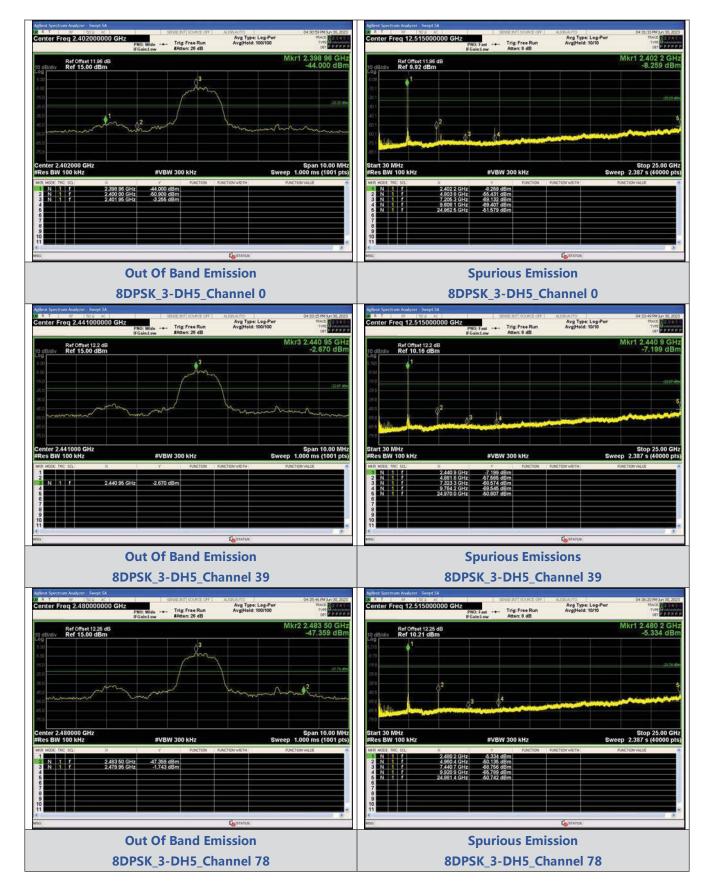
		24962.5	-51.579	-23.25	-28.329	PASS
		4881.79	-57.565	-22.67	-34.895	PASS
	20	7323.30	-68.574	-22.67	-45.904	PASS
	39	9764.17	-69.544	-22.67	-46.874	PASS
		24970.0	-50.607	-22.67	-27.937	PASS
		2483.50	-47.359	-21.74	-26	PASS
		4960.45	-50.135	-21.74	-28.395	PASS
	78	7440.66	-68.756	-21.74	-47.016	PASS
		9920.86	-65.789	-21.74	-44.049	PASS
		24881.4	-50.742	-21.74	-29.002	PASS

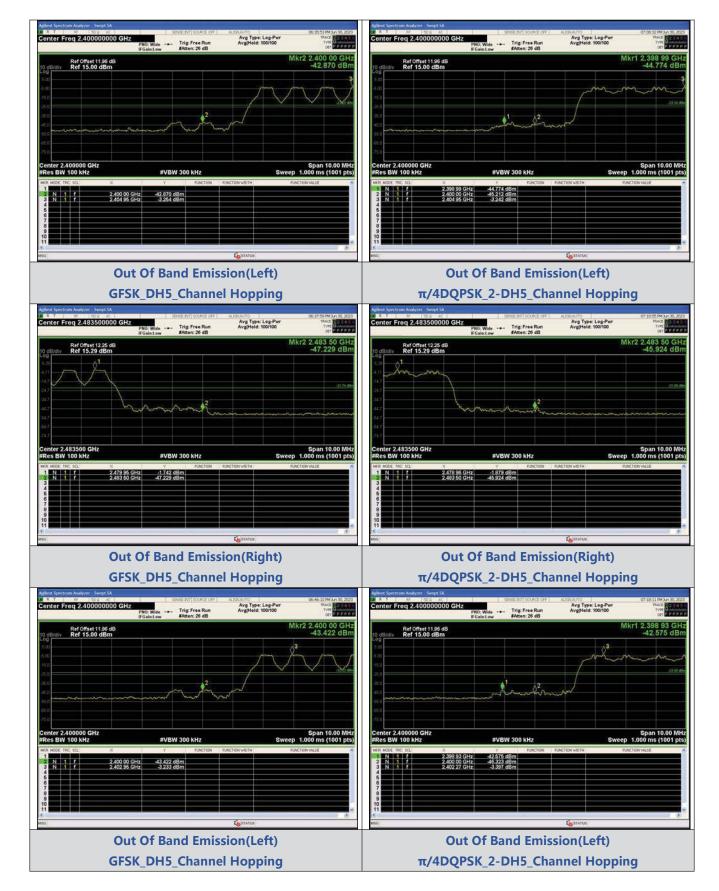
Hopping

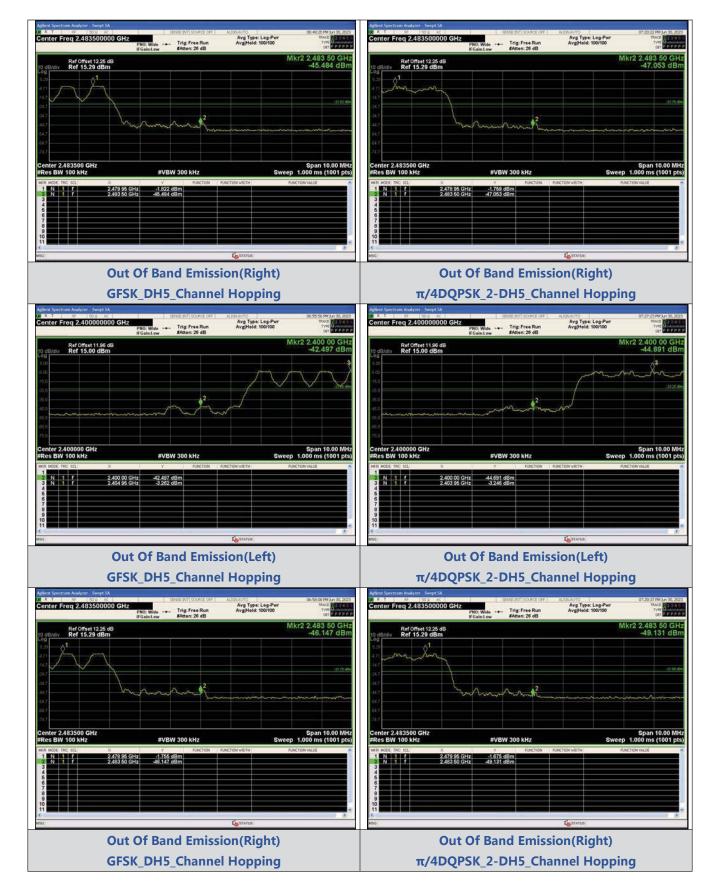
			ООВ	ООВ			
NA - ded atten	Packet	Channel	Emission	Emission	Limit	Over Limit	D
Modulation			Frequency	Level	(dBm)	(dB)	Result
			(MHz)	(dBm)			
			2400.00	-42.870	-23.25	-19.620	PASS
			2483.50	-47.229	-21.74	-25.489	PASS
GFSK	DH5		2400.00	-43.422	-23.23	-20.192	PASS
Grak	כחט		2483.50	-45.484	-21.82	-23.664	PASS
			2400.00	-42.497	-23.26	-19.237	PASS
			2483.50	-46.147	-21.75	-24.397	PASS
	2-DH5	Hopping	2398.99	-44.774	-23.24	-21.534	PASS
			2400.00	-45.212	-23.24	-21.972	PASS
			2483.50	-45.924	-21.88	-24.044	PASS
π/4DQPSK			2398.93	-42.575	-23.4	-19.175	PASS
II/4DQP3K			2400.00	-46.323	-23.4	-22.923	PASS
			2483.50	-47.053	-21.76	-25.293	PASS
			2400.00	-44.691	-23.25	-21.441	PASS
			2483.50	-49.131	-21.68	-27.451	PASS
	3-DH5		2398.75	-45.507	-23.26	-22.247	PASS
			2400.00	-47.236	-23.26	-23.976	PASS
			2483.50	-47.850	-21.74	-26.110	PASS
			2398.90	-44.287	-23.23	-21.057	PASS
8DPSK			2400.00	-47.387	-23.23	-24.157	PASS
			2483.50	-47.743	-21.74	-26.003	PASS
			2398.95	-43.813	-23.22	-20.593	PASS
			2400.00	-46.726	-23.22	-23.506	PASS
			2483.50	-45.692	-21.69	-24.002	PASS

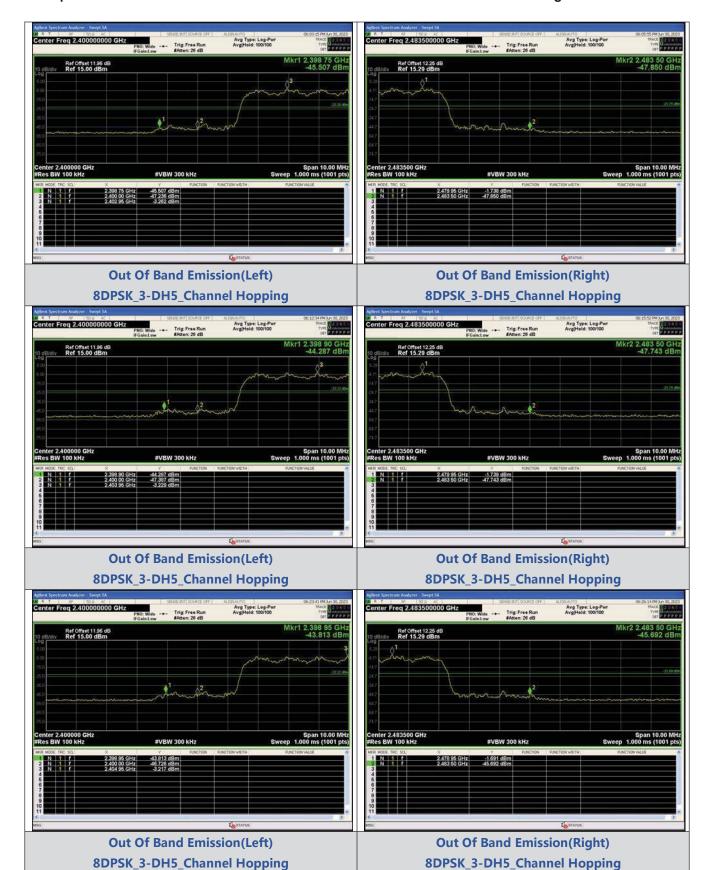










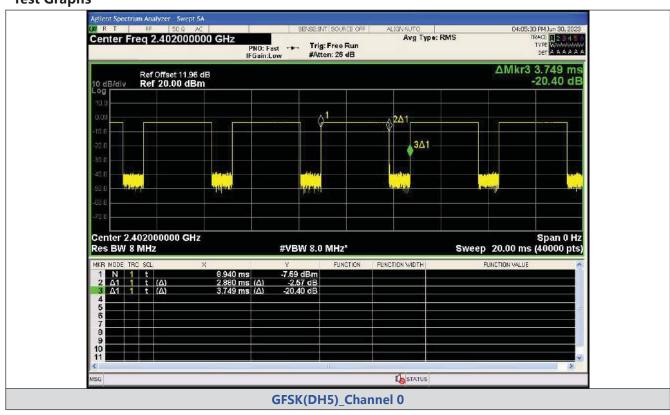


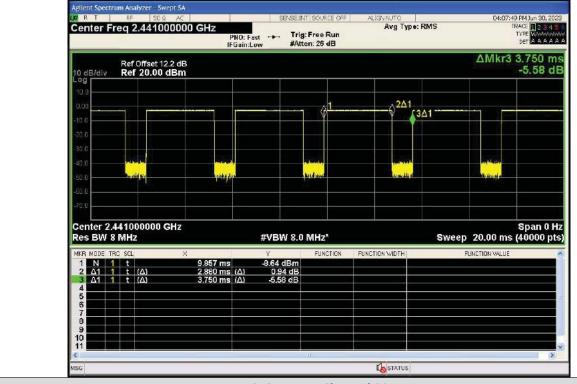
Report No.: MTEB23070044-R1 Page 47 of 57

APPENDIX VI. Duty Cycle

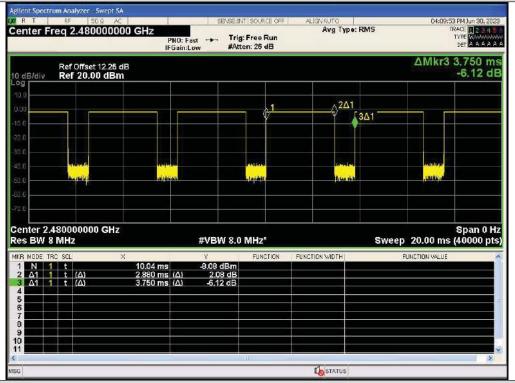
Test Result

Modulation	Packets	Channel	On Time	Period	Duty Cycle	Duty Cycle	Duty Cycle
			(ms)	(ms)	(%)	(linear)	Factor (dB)
	DH5	0	2.880	3.749	76.81	0.7681	1.1458
GFSK		39	2.880	3.750	76.80	0.7680	1.1464
		78	2.880	3.750	76.80	0.7680	1.1464
	2-DH5	0	2.879	3.735	77.09	0.7709	1.13
π/4DQPSK		39	2.879	3.735	77.09	0.7709	1.13
		78	2.879	3.745	76.88	0.7688	1.1419
8DPSK	3-DH5	0	2.889	3.745	77.15	0.7715	1.1266
		39	2.879	3.735	77.09	0.7709	1.13
		78	2.889	3.745	77.15	0.7715	1.1266

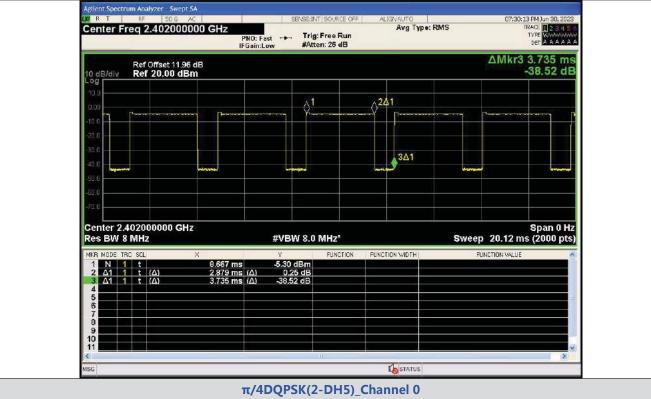


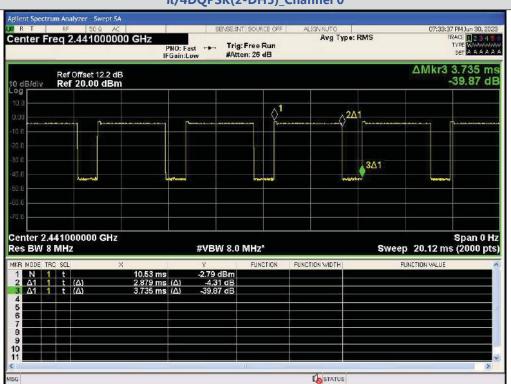


GFSK(DH5)_Channel 39

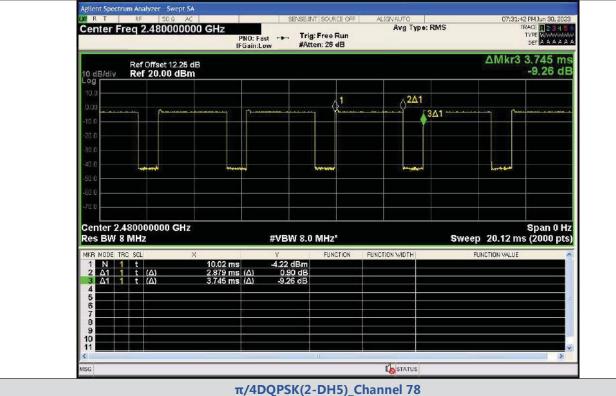


GFSK(DH5)_Channel 78



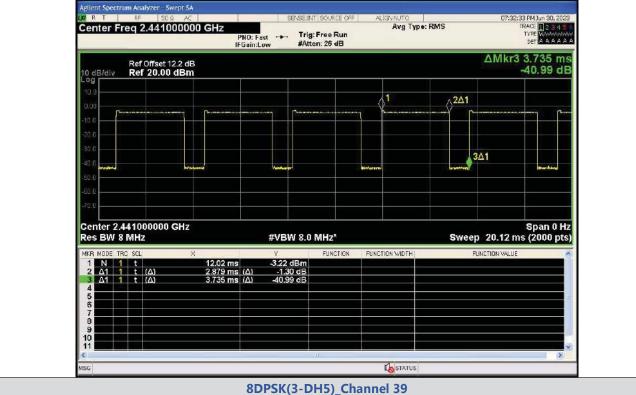


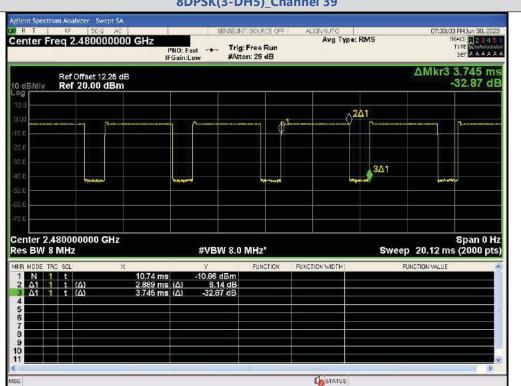
 $\pi/4DQPSK(2-DH5)$ _Channel 39



Agilent Spectrum Analyzer - Swept SA 07:34:07 PM Jun 30; 2023 TRACE 1 2 3 4 5 5 TYPE WWW. 1555.00 DET A A A A A A Center Freq 2.402000000 GHz Avg Type: RMS PNO: Fast --- Trig: Free Run IFGain:Low #Atten: 26 dB ΔMkr3 3.745 ms -32.19 dB Ref Offset 11.96 dB Ref 20.00 dBm 10 dB/dlv Log 10.0 Δ2Δ1 3∆1 Center 2.402000000 GHz Res BW 8 MHz Span 0 Hz Sweep 20.12 ms (2000 pts) #VBW 8.0 MHz* FUNCTION WIDTH 8.396 ms 2.889 ms (Δ) 3.745 ms (Δ) -11.14 dBm 4.55 dB -32.19 dB N 1 t Δ1 1 t (Δ) Δ1 1 t (Δ) **STATUS**

8DPSK(3-DH5)_Channel 0





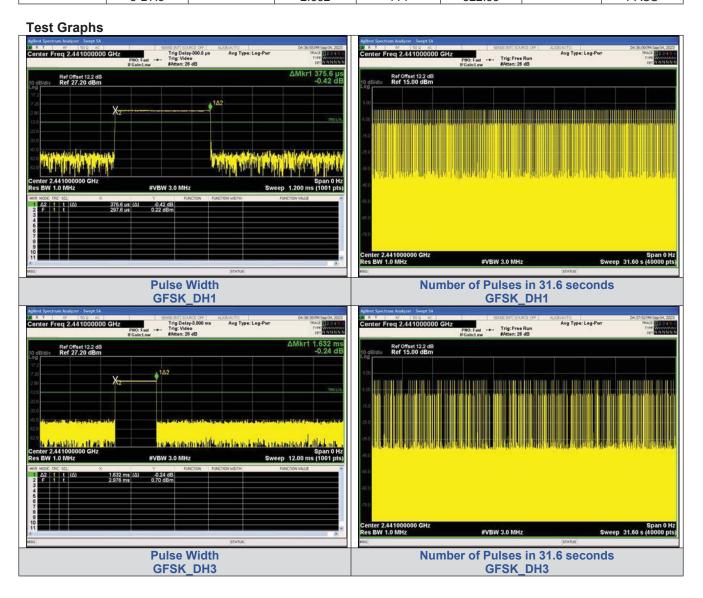
8DPSK(3-DH5)_Channel 78

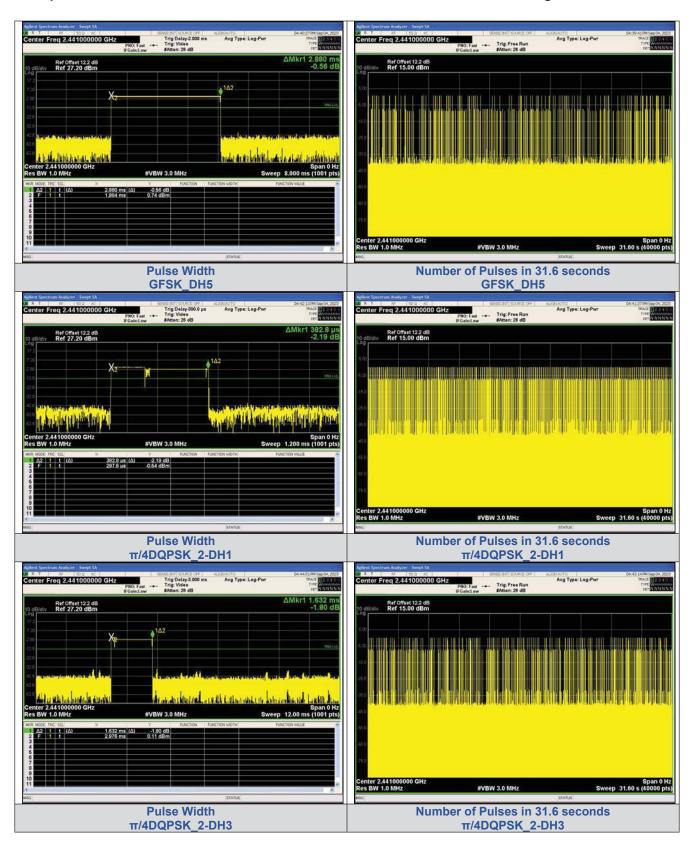
Report No.: MTEB23070044-R1 Page 52 of 57

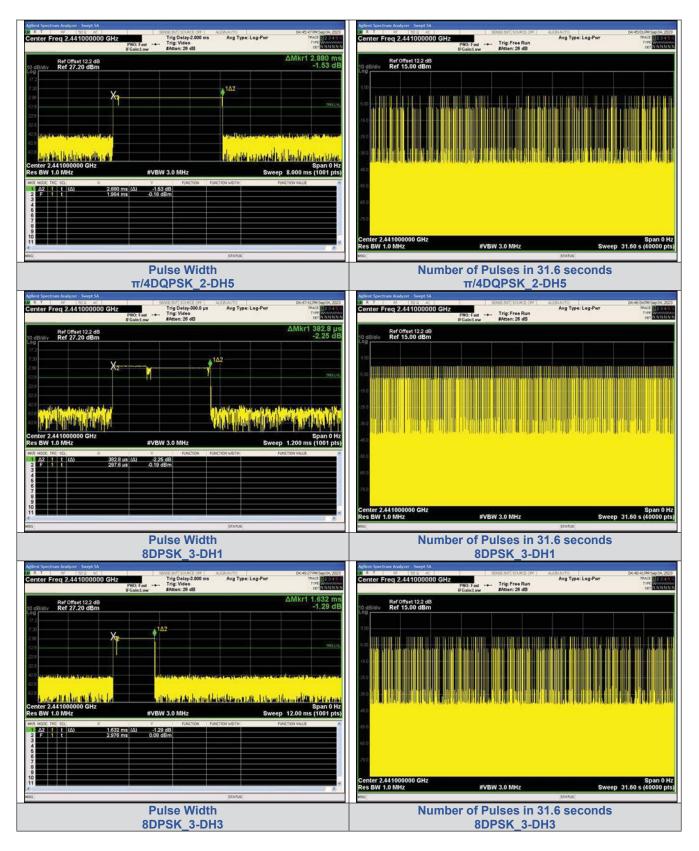
APPENDIX VII. Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
	DH1		0.3756	312	117.19	< 400	PASS
GFSK	DH3	CH39 (2441MHz)	1.632	159	259.49		PASS
	DH5		2.880	116	334.08		PASS
π/4DQPSK	2-DH1		0.3828	312	119.43		PASS
	2-DH3		1.632	157	256.22		PASS
	2-DH5		2.880	114	328.32		PASS
8DPSK	3-DH1		0.3828	311	119.05		PASS
	3-DH3		1.632	151	246.43		PASS
	3-DH5		2.832	114	322.85		PASS





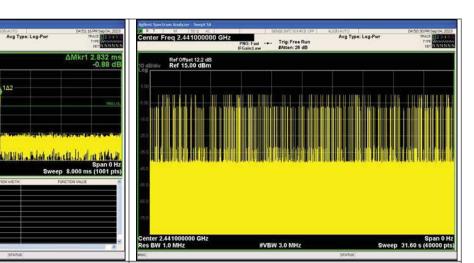


Report No.: MTEB23070044-R1

PHO: Fest -- Trig: Video FAtten: 26 dB

nter Freq 2.441000000 GHz

Ref Offset 12.2 dB Ref 27.20 dBm



Page 55 of 57

Pulse Width 8DPSK_3-DH5 Number of Pulses in 31.6 seconds 8DPSK_3-DH5

Report No.: MTEB23070044-R1 Page 56 of 57

APPENDIX VIII. Number Of Hopping Channel

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
GFSK	DH5	79	15	PASS
GFSK	DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

