



FCC Test Report

Report No.: HK2405302834-E

Test Report
On Behalf of
Migear International Group LLC
For
INFINITY BAR PORTABLE WIRELESS SPEAKER
Model No.: BT120, FBT120, CBT120, FSB120

FCC ID: 2AIDL-BT120

Prepared For: Migear International Group LLC

21 West 38th Street, 14th Floor. New York, NY 10018, United States

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: May 30, 2024 ~ Jun. 14, 2024

Date of Report: Jun. 14, 2024

Report Number: HK2405302834-E

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Test Result Certification

Applicant's Name...... Migear International Group LLC

Manufacturer's Name: Loud Global (Shenzhen) Import & Export Co., Ltd

ROOM 909-1, BUILDING A, UNITED PLAZA, NO.5022 BINHE

Address AVENUE, FUSHAN COMMUNITY, FUTIAN STREET, FUTIAN

DISTRICT, SHENZHEN, China

Product Description

Trade Mark 2BOOM, FISHER, CRAYOLA

Product Name...... INFINITY BAR PORTABLE WIRELESS SPEAKER

Model and/or Type Reference: BT120, FBT120, CBT120, FSB120

Standards 47 CFR FCC Part 15 Subpart C 15.247

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Date of Test

Date (s) of Performance of Tests May 30, 2024 ~ Jun. 14, 2024

Date of Issue......Jun. 14, 2024

Test Result......Pass

Testing Engineer

len lian

Len Liao

Technical Manager

Wan

Sliver Wan

Authorized Signatory

Jason Hwu

Jason Zhou



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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jun. 14, 2024	Jason Zhou
12.1			
STING	STIME	STING	GTING

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1. Summary

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: 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

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

1.2. Test Description

FCC PART 15.247		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.215	20dB Bandwidth& 99% Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247 (a) (1)	Pseudorandom Frequency Hopping Sequence	PASS
FCC Part 15.247(a)(1)(iii)	Number of Hopping Frequency& Time of Occupancy	PASS
FCC Part 15.247(a)(1)	Frequency Separation	PASS
FCC Part 15.205/15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
- 476	74.	- 1/2

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1.3. Test Facility

1.3.1 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

1.3.2 Laboratory Accreditation

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

IC Registration No.: 21210

The 3m alternate test site of Shenzhen HUAK Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 21210 on May 24, 2016.

1.4. 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 HUAK Testing Technology 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 HUAK laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power conducted	±0.37 dB	(1)
Transmitter power Radiated	±3.35 dB	(1)
Conducted spurious emission 9KHz-40 GHz	±2.20 dB	(1)
Occupied Bandwidth	±3.68%	(1)
Radiated Emission 30~1000MHz	±3.90dB	(1)
Radiated Emission Above 1GHz	±4.28dB	(1)
Conducted Disturbance0.15~30MHz	±2.71dB	(1)

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

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2. General Information

2.1. Environmental Conditions

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

Normal Temperature:		25°C	
Relative Humidity	/: MAKTES	55 %	MAKTER
Air Pressure:	(8)	101 kPa	(a)

2.2. General Description of EUT

Product Name:	INFINITY BAR PORTABLE WIRELE	ESS SPEAKER
Model/Type Reference:	BT120	AK TESTING
Series Model:	FBT120, CBT120, FSB120	MAN TESTING TESTING
Model Difference:	All model's the function, software ar only with product color and model n model: BT120.	PERSONAL PROVINCE
Power Supply:	DC5V from micro USB or DC3.7V fr	rom battery
Version:	Supported EDR	HUAKTEST
Modulation:	GFSK, π/4DQPSK, 8DPSK	
Operation Frequency:	2402MHz~2480MHz	- MANTESTING
Channel Number:	79 ANALYSE	HUAKTES
Channel Separation:	1MHz	TESTING
Antenna Type:	PCB Antenna	HUAN TING STA
Antenna Gain:	-0.68dBi	HUANTES HUANTES
Hardware Version:	V1.0	
Software Version:	V1.0	TING

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- The test results in the report only apply to the tested sample.

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2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

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There are 79 channels provided to the EUT and Channel 00/39/78 was selected for testing.

Operation Frequency:

Frequency (MHz)
2402
2403
RUP
2440
2441
2442
2479
2480

Note: The line display in grey were the channel selected for testing

Preliminary tests were performed in each mode and packet length of BT, and found worst case as bellow, finally test were conducted at those mode and recorded in this report.

Test Items	Worst case		
Conducted Emissions	Charging mode		
Radiated Emissions and Band Edge	DH5 Low channel		
Maximum Conducted Output Power	DH5/2DH5/3DH5		
20dB Bandwidth&99% Bandwidth	DH5/2DH5/3DH5		
Frequency Separation	DH5/2DH5/3DH5 Middle channel		
Number of hopping frequency	DH5/2DH5/3DH5		
Time of Occupancy (Dwell Time)	DH1/DH3/DH5 Middle channel 2DH1/2DH3/2DH5 Middle channel 3DH1/3DH3/3DH5 Middle channel		
Out-of-band Emissions	DH5/2DH5/3DH5		

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2.4. Equipments Used during the Test

	HUM	THE HUMAN				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2024/02/20	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2024/02/20	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2024/02/20	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2024/02/20	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	2024/02/20	1 Year
6	Preamplifier	EMCI	EMC051845S	HKE-006	2024/02/20	1 Year
7	Preamplifier (Schwarzbeck	BBV 9743	HKE-016	2024/02/20	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	2024/02/20	1 Year
9	6dB Attenuator	Pasternack	6db	HKE-184	2024/02/20	1 Year
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2024/02/20	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	2024/02/21	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
13	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2 Year
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	€ HILIAN	/
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	1	-my
16	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2024/02/20	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	2024/02/20	1 Year
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	2024/02/20	1 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	2024/02/20	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	2023/06/11	1 Year
21	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2023/06/11	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	/ MAN	/
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2024/02/20	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	STING 1	KTESTAG

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2.5. Related Submittal(s) / Grant (s)

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

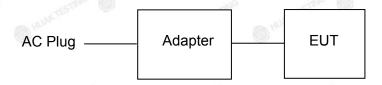
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2.6. Modifications

No modifications were implemented to meet testing criteria.

2.7. Description of Test Setup

Operation of EUT during Conducted and Radiation below 1GHz testing:



Operation of EUT during Above 1GHz Radiation testing:



The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3mchamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position

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2.8. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

102	IAM	10%	· · · · · ·	IDA	101
Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	INFINITY BAR PORTABLE WIRELESS SPEAKER	2BOOM, FISHER, CRAYOLA	BT120	N/A N/A	EUT
2	Adapter	N/A	N/A N/A	Input: AC100-240V, 50/60Hz, 0.75A Output: DC5V/2A, 9V/2A, 10V/2.25A MAX	Peripheral
M HO.	0	(a)	0	0,,,	
TESTIN	TESTING	45	NG TESTING	TE THE	TESTING
UNK.	MILAN.	HUAR.	HUAK.	Why.	HUAK.
ESTING		TESTING.		TESTING	
	ESTING	HUAKI	ESTING	HUAKI	ESTING

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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3. Test Conditions and Results

3.1. Conducted Emissions Test

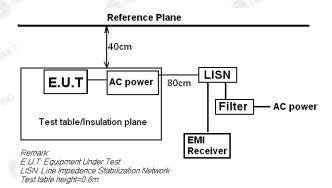
Limit

According to FCC CFR Title 47 Part 15 Subpart C Section 15.207 and RSS Gen 8.8, AC Power Line Conducted Emissions Limits for License-Exempt Radio Apparatus as below:

Fraguenay range (MHz)	Limit (dBuV)		
Frequency range (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30 m	60	50	

^{*} Decreases with the logarithm of the frequency.

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 adapter received AC120V/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.

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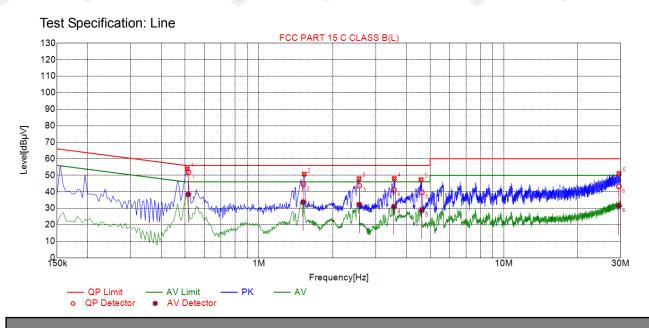
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Test Results

All modes have been tested, only the worst result was reported as below:



Sus	spected	List						
NO.	Freq. [MHz]	Level [dBµ√]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµ∀]	Detector	Туре
1	0.5100	53.86	20.11	56.00	2.14	33.75	PK	L
2	1.5315	50.65	20.29	56.00	5.35	30.36	PK	_
3	2.5620	47.94	20.49	56.00	8.06	27.45	PK	
4	3.5700	48.05	20.65	56.00	7.95	27.40	PK	L
5	4.5915	47.33	20.76	56.00	8.67	26.57	PK	L
6	29.5215	51.08	24.89	60.00	8.92	26.19	PK	L

Fina	Final Data List												
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	AV Reading [dBμV]	Туре		
1	0.5151	20.11	51.75	56.00	4.25	31.64	38.45	46.00	7.55	18.34	L		
2	1.5182	20.29	44.69	56.00	11.31	24.40	33.74	46.00	12.26	13.45	L		
3	2.5687	20.49	43.70	56.00	12.30	23.21	32.26	46.00	13.74	11.77	L		
4	3.5593	20.65	41.13	56.00	14.87	20.48	31.02	46.00	14.98	10.37	L		
5	4.6243	20.77	39.74	56.00	16.26	18.97	28.80	46.00	17.20	8.03	L		
6	29.4899	24.88	43.29	60.00	16.71	18.41	31.51	50.00	18.49	6.63	L		

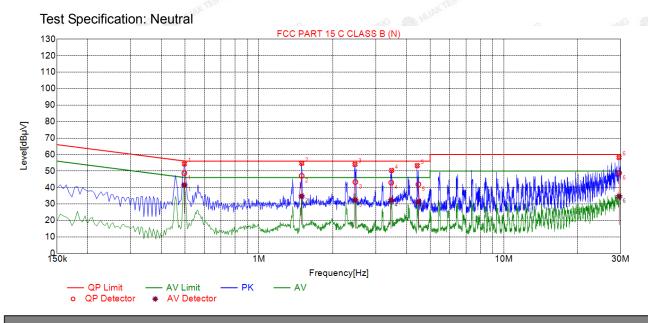
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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Sus	spected	l List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.4965	54.34	20.20	56.06	1.72	34.14	PK	N
2	1.4955	54.75	20.36	56.00	1.25	34.39	PK	N
3	2.4675	54.06	20.53	56.00	1.94	33.53	PK	N
4	3.4800	50.36	20.69	56.00	5.64	29.67	PK	N
5	4.4295	53.29	20.78	56.00	2.71	32.51	PK	N
6	29.5260	58.25	24.69	60.00	1.75	33.56	PK	N

Final	Data	List									
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBμV]	ΑV Value [dBμV]	AV Limit [dBµV]	AV Margin [dB]	ΑV Reading [dBμV]	Туре
1	0.4959	20.20	48.73	56.07	7.34	28.53	41.45	46.07	4.62	21.25	N
2	1.4946	20.35	47.05	56.00	8.95	26.70	34.70	46.00	11.30	14.35	N
3	2.4753	20.54	43.33	56.00	12.67	22.79	32.40	46.00	13.60	11.86	N
4	3.4680	20.69	42.90	56.00	13.10	22.21	32.28	46.00	13.72	11.59	N
5	4.4762	20.79	41.88	56.00	14.12	21.09	31.38	46.00	14.62	10.59	N
6	29.5561	24.70	48.85	60.00	11.15	24.15	34.60	50.00	15.40	9.90	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



3.2. Radiated Emissions and Band Edge

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

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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 in §15.209(a)

Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in table below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission

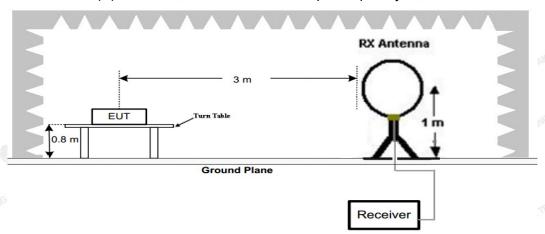
Unwanted emissions that fall into restricted bands shall comply with the limits specified in RSS-Gen; and Unwanted emissions that do not fall within the restricted frequency bands shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

Radiated emission limits

		rtau	atea emission ilmis	
Ī	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)
Ī	1.705-30	3	20log(30)+ 40log(30/3)	30
3	30-88	3.144	40.0	100
Ī	88-216	3	43.5	150
1	216-960	3,,,,,	46.0	200
Ī	Above 960	3	54.0	500

Test Configuration

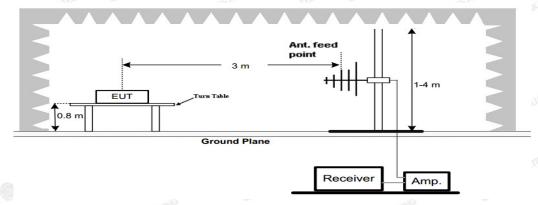
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



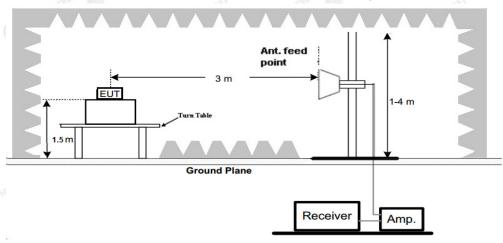
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(B) Radiated Emission Test Set-Up, Frequency below 1000MHz

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(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Test Procedure

- The EUT was placed on turn table which is 0.8m above ground plane for below 1GHz test, and on a low permittivity and low loss tangent turn table which is 1.5m above ground plane for above 1GHz test.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0 degrees to 360 degrees 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.



Test Results

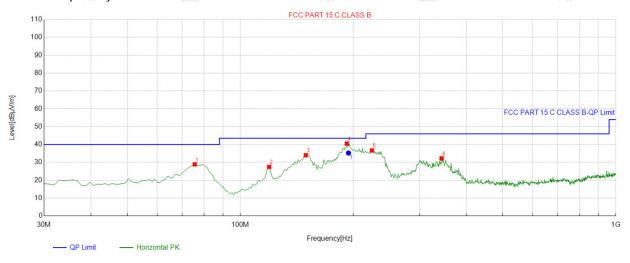
Remark:

- Radiated Emission measured at GFSK, π/4 DQPSK and 8DPSK mode from 9 KHz to 10th harmonic of fundamental and recorded worst case at GFSK DH5 mode.
- 2. There is no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

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3. For below 1GHz testing recorded worst at GFSK DH5 low channel.

Below 1GHz Test Results: Antenna polarity: H



QP Detector

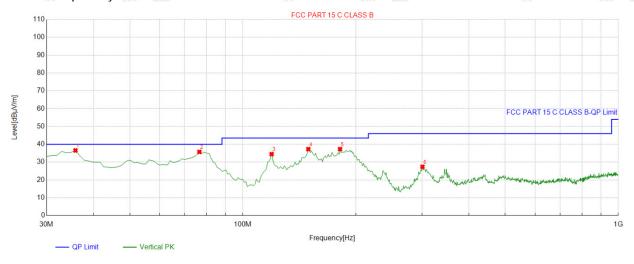
	Suspe	cted List								
Ī		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
10000	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	75.635636	-17.98	46.87	28.89	40.00	11.11	100	186	Horizontal
	2	119.32932	-15.94	43.45	27.51	43.50	15.99	100	328	Horizontal
Y	3	149.42942	-18.08	52.10	34.02	43.50	9.48	100	192	Horizontal
	4	192.15215	-15.74	56.29	40.55	43.50	2.95	100	175	Horizontal
	5	224.19419	-14.01	50.71	36.70	46.00	9.30	100	6	Horizontal
-	6	343.62362	-10.19	42.44	32.25	46.00	13.75	100	170	Horizontal

Final I	Data List								
NO.	Freq.	Factor	QP Reading	QP Value	QP Limit	QP Margin	Height	Angle	Polarity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polanty
1	194.0458	-15.74	50.98	35.24	43.50	8.26	100	175	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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Antenna polarity: V



QP Detector

S.	Suspe	Suspected List												
Ī		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle					
Y	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
	1	35.825826	-14.54	51.07	36.53	40.00	3.47	100	135	Vertical				
3	2	76.606607	-17.96	53.69	35.73	40.00	4.27	100	205	Vertical				
	3	119.32932	-15.94	50.44	34.50	43.50	9.00	100	82	Vertical				
	4	149.42942	-18.08	55.36	37.28	43.50	6.22	100	107	Vertical				
3	5	181.47147	-16.13	53.43	37.30	43.50	6.20	100	79	Vertical				
	6	300.90090	-11.75	39.11	27.36	46.00	18.64	100	285	Vertical				

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

Frequency (M	Hz) I	Level@3m (dBµV	/m) Lim	Limit@3m (dBµV/m)		
	-mG		lan	G		
	10KTEST.	auG	NY TEST		-olG	
NYTESTI-		NK TESTI	(I) NO.		OKTEST	
		Mary Ho.		-f0 "	0.	

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

ATION



For 1GHz to 25GHz

CH Low (2402MHz)

Horizontal:

TIONZONIAI.	Meter	1	1	1		1
Frequency	Reading	Factor	Emission Level	Limits	Margin	Detecta
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.00	53.16	-3.65	49.51	74.00	-24.49	peak
4804.00	46.29	-3.65	42.64	54.00	-11.36	AVG
7206.00	52.88	-0.95	51.93	74.00	-22.07	peak
7206.00	43.07	-0.95	42.12	54.00	-11.88	AVG

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Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

	Meter					
Frequency	Reading	Factor	Emission Level	Limits	Margin]
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4804.00	53.96	-3.65	50.31	74.00	-23.69	peak
4804.00	44.14	-3.65	40.49	54.00	-13.51	AVG
7206.00	51.35	-0.95	50.40	74.00	-23.60	peak
7206.00	43.01	-0.95	42.06	54.00	-11.94	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

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CH Middle (2441MHz)

Horizontal:

	Meter	(632)		(6)(1)	- 0	9
Frequency	Reading	Factor	Emission Level	Limits	Margin]
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.00	52.12	-3.54	48.58	74.00	-25.42	peak
4882.00	46.33	-3.54	42.79	54.00	-11.21	AVG
7323.00	52.58	-0.81	51.77	74.00	-22.23	peak
7323.00	41.79	-0.81	40.98	54.00	-13.02	AVG

Report No.: HK2405302834-E

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

vertical.	-C/1" (SB)		400	(S20)	2000	-611
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4882.00	53.41	-3.54	49.87	74.00	-24.13	peak
4882.00	45.26	-3.54	41.72	54.00	-12.28	AVG
7323.00	52.98	-0.81	52.17	74.00	-21.83	peak
7323.00	42.44	-0.81	41.63	54.00	-12.37	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

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CH High (2480MHz)

Horizontal:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
, all	4960.00	53.21	-3.43	49.78	74.00	-24.22	peak
	4960.00	46.35	-3.44	42.91	54.00	-11.09	AVG
	7440.00	51.82	-0.77	51.05	74.00	-22.95	peak
L	7440.00	41.09	-0.77	40.32	54.00	-13.68	AVG

Report No.: HK2405302834-E

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

2/4/2010 0111	7 C 1 (SHO)			12907	211/2	- C, 1
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4960.00	51.71	-3.43	48.28	74.00	-25.72	peak
4960.00	46.55	-3.44	43.11	54.00	-10.89	AVG
7440.00	51.63	-0.77	50.86	74.00	-23.14	peak
7440.00	42.42	-0.77	41.65	54.00	-12.35	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The İF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.

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Radiated Band Edge Test:

Hopping

Horizontal (Worst case):

	Tionzoniai (V	vorst case).					
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
Ų.	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
-65	2310.00	55.19	-5.81	49.38	74	-24.62	peak
Ī	2310.00	AK TESTING	-5.81	/ AKTESTING	54	1	AVG
3	2390.00	53.38	-5.84	47.54	74	-26.46	peak
	2390.00	I MG	-5.84	1	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	55.04	-5.81	49.23	74	-24.77	peak
2310.00	IK TES	-5.81	/JAK TES	54	1	AVG
2390.00	53.59	-5.84	47.75	74 TESTING	-26.25	peak
2390.00	V TEAMS	-5.84	TSTING /	54	/ STING	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.



Horizontal (Worst case):

onzontal (VVO	101 0000).		. A.G.	-1D- NEW 1	.10	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.36	-5.81	49.55	55TMG 74	-24.45	peak
2483.50	MUAR /	-5.81	/ MHUAN	54	UAK 1	AVG
2500.00	55.17	-6.06	49.11	74	-24.89	peak
2500.00	AK TESTING	-6.06	LAKTESTING	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

. 0.12			A Comment of the Comm			- 10
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.29	-5.81	49.48	5 ^{rm/5} 74	-24.52	peak
2483.50	1	-5.81	1 0	54	/	AVG
2500.00	55.28	-6.06	49.22	74	-24.78	peak
2500.00	IK TEST	-6.06	HUAK TEST	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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NO Hopping

Operation Mode: TX CH Low (2402MHz)

Horizontal (Worst case):

	voiot oaco).					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	56.14	-5.81	50.33	74	-23.67	peak
2310.00	AK TESTING	-5.81	/ AKTESTING	54	1	AVG
2390.00	55.36	-5.84	49.52	74	-24.48	peak
2390.00	I G	-5.84	1	54	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	S ^{TMG} Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310.00	55.79	-5.81	49.98	74	-24.02	peak
2310.00	Wite 1	-5.81	MAKTES	54	1	AVG
2390.00	55.52	-5.84	49.68	74 TESTING	-24.32	peak
2390.00	V. TEXING (1)	-5.84	TESTING /	54	/ TESTING	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.



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Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case):

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.14	-5.81	49.33	74	-24.67	peak
2483.50	1	-5.81	1	54	ESTING /	AVG
2500.00	55.36	-6.06	49.3	74	-24.7	peak
2500.00	1	-6.06	0	54	, 🤍	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.50	55.57	-5.81	49.76	74	-24.24	peak
2483.50	THUS !	-5.81	1	54	ESTING /	AVG
2500.00	55.18	-6.06	49.12	74	-24.88	peak
2500.00	1	-6.06	1	54 TESTING	1	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Level - Limit.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- 2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3. Maximum Peak Conducted Output Power

Limit

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 125mW. 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 hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

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Test Procedure

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

Test Configuration



Test Results

Type	Channel	Maximum Peak Conducted Output Power (dBm)	Limit (dBm)	Result
0	00	5.54	0,"	(1)
GFSK	39	6.31	21.00	Pass
	· 78	6.67	TSTIN	
HUAR	00	5.58	HUAK.	HUAK
π/4DQPSK	39	6.31	21.00	Pass
	78	6.67	- WAKTESTING	
HUAKTES	00	5.88		HUAKTES
8DPSK	39	6.74	21.00	Pass
	78	7.28	HUAKTE	

Note: The test results including the cable loss.

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3.4. 20dB Bandwidth

Limit

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

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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.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

RBW=1% to 5% of the OBW VBW=approximately 3 X RBW Detector=Peak

Trace Mode: Max Hold

Use the 99% power bandwidth function of the instrument to measure the Occupied Bandwidth and recoded.

Test Configuration



Test Results

Modulation	Channel	20dB bandwidth (MHz)	Result
	CH00	0.954	0,
GFSK	CH39	0.936	ı.G
- WAKTES	CH78	0.954	WAKTESTING
3	CH00	1.320	0.,
π/4DQPSK	CH39	1.338	Pass
WAK TESTING	CH78	1.287	HILAK TESI.
9	CH00	1.272	
8DPSK	CH39	1.296	
LAK TESTING	CH78	1.350	NAK TESTING

Test plot as follows:

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CH78

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3.5. Frequency Separation

Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25 KHz or the 2/3*20dB bandwidth of the hopping channel, whichever is greater.

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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 300 KHz RBW and 1000 KHz VBW.

Test Configuration



Test Results

Modulation	Channel	Channel Separation (MHz)	Limit(MHz)	Result
GFSK	CH39	0.996	0.636	Pass
Grak	CH40	0.990	0.030	
π/4DQPSK	CH39	1.010	0.902	Pass
	CH40	1.010	0.892	
8DPSK	CH39	1.002	0.000	Pass
	CH40	1.002	0.900	

Note: We have tested all mode at high, middle and low channel, and recorded worst case at middle

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HI

Test plot as follows:



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3.6. Number of Hopping Frequency

Limit

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.

Test Configuration



Test Results

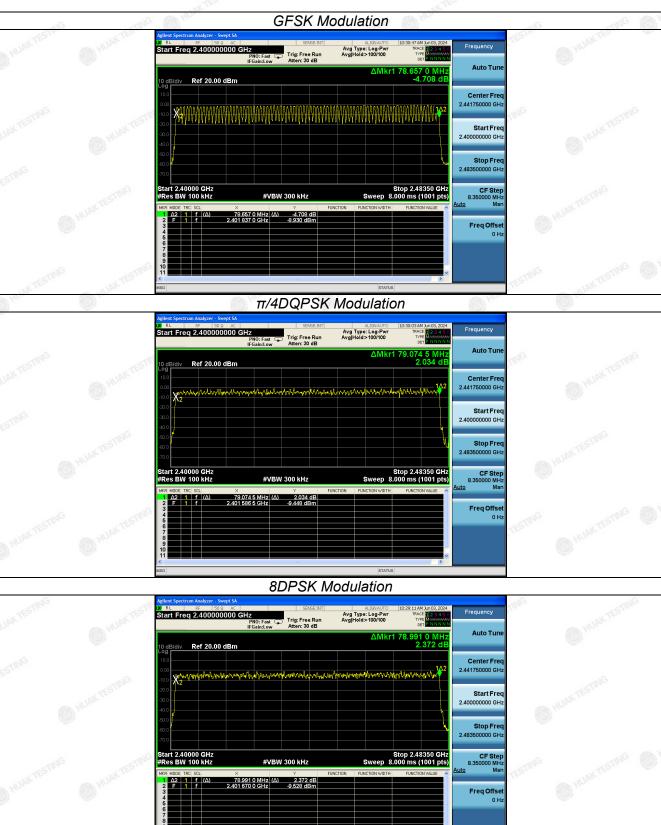
Modulation	Number of Hopping Channel	Limit	Result
GFSK	79	ONG.	
π/4DQPSK	79 ESTING	≥15	Pass
8DPSK	79		HUNKTE

Test plot as follows:

*

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3.7. Time of Occupancy (Dwell Time)

Limit

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 3MHz VBW, Span 0Hz.

Test Configuration



Test Results

Modulation	Packet	Pulse time (ms)	Dwell time (second)	Limit (second)	Result
ESTING	DH1	0.410	0.131	OK TESTING	
GFSK DH3	DH3	1.667	0.267	0.40	Pass
	DH5	2.915	0.311		
.6	2-DH1	0.419	0.134		mG MH
M HOM Comment	2-DH3	1.672	0.268	0.40	Pass
	2-DH5	2.920	0.311		
8DPSK	3-DH1	0.422	0.135		
	3-DH3	1.673	0.268	0.40	Pass
	3-DH5	2.923	0.312	(i) HO	O HO.

Note:

- 1. We have tested all mode at high, middle and low channel, and recoreded worst case at middle channel.
- 2. Dwell time=Pulse time (ms) × (1600 \div 2 \div 79) ×31.6 Second for DH1, 2-DH1, 3-DH1 Dwell time=Pulse time (ms) × (1600 \div 4 \div 79) ×31.6 Second for DH3, 2-DH3, 3-DH3 Dwell time=Pulse time (ms) × (1600 \div 6 \div 79) ×31.6 Second for DH5, 2-DH5, 3-DH5

Test plot as follows:



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