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Test Report

Report No. :	CQASZ20210200171E-01
Applicant:	SHENZHEN JINGWEI ELECTRONICS TECHNOLOGY CO., LTD.
Address of Applicant:	RM410, 4/F, NO.B YIDEHANG IND ZONE, FUKANG SHEQU, LONGHUA ST., LONGHUA DIST. SHENZHEN
Equipment Under Test (E	UT):
Product:	BT AMP BOX
Model No.:	AMP-BTX01, Herdio HMS5104, Herdio HCS528, Herdio HCS418,
	Herdio HCS628, Herdio HMS61, Herdio HMS60
Test Model No.:	AMP-BTX01
Brand Name:	Herdio
FCC ID:	2AYZ2-BTX01
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2021-2-25 to 2021-4-8
Date of Issue:	2021-4-8
Test Result :	PASS*

Tested By:	Juh Li	
	(Jun Li)	TESTING TEOD
Reviewed By:	Any bin	
-	(Ares Liu)	「「「「「「」」」の「「」」」では、「」」の「「」」では、「」」の「」」では、「」」の「」」の「」」の「」」の「」」の「」」の「」」の「」」の「」」の「」」
Approved By:	Sheek, Luo	
	(Sheek luo)	APPROVED

* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210200171E-01	Rev.01	Initial report	2021-4-8



2 Test Summary

Test Item Test Requirement		Test method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 (2013)	PASS	
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 (2013)	PASS	
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 (2013)	PASS	
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS	
Carrier Frequencies Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS	
Hopping Channel Number	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS	
Dwell Time	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS	
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	ANSI C63.10 (2013)	PASS	
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS	
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS	
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209			
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS	



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4 General Information

4.1 Client Information

Applicant:	SHENZHEN JINGWEI ELECTRONICS TECHNOLOGY CO., LTD.			
Address of Applicant:	RM410, 4/F, NO.B YIDEHANG IND ZONE, FUKANG SHEQU, LONGHUA ST., LONGHUA DIST. SHENZHEN			
Manufacturer:	SHENZHEN JINGWEI ELECTRONICS TECHNOLOGY CO., LTD.			
Address of Manufacturer:	RM410, 4/F, NO.B YIDEHANG IND ZONE, FUKANG SHEQU, LONGHUA ST., LONGHUA DIST. SHENZHEN			
Factory:	SHENZHEN JINGWEI ELECTRONICS TECHNOLOGY CO., LTD.			
Address of Factory:	RM410, 4/F, NO.B YIDEHANG IND ZONE, FUKANG SHEQU, LONGHUA ST., LONGHUA DIST. SHENZHEN			

4.2 General Description of EUT

Product Name:	BT AMP BOX		
Model No.:	AMP-BTX01, Herdio HMS5104, Herdio HCS528, Herdio HCS418,		
	Herdio HCS628, Herdio HMS61, Herdio HMS60		
Test Model No.:	AMP-BTX01		
Trade Mark:	Herdio		
Hardware Version:	1.0		
Software Version:	1.0		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.0		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK		
Transfer Rate:	1Mbps/2Mbps		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Product Type:	□ Mobile □ Portable ⊠ Fix Location		
Test Software of EUT:	BT_Tool (manufacturer declare)		
Antenna Type:	PCB antenna		
Antenna Gain:	0.94dBi		
Power Supply:	AC/DC Adapter		
	Mode:BX-1203000		
	Input:AC100-240V 50/60Hz 0.8A MAX		
	Output: 12V 3A		

Model No.: AMP-BTX01, Herdio HMS5104, Herdio HCS528, Herdio HCS418, Herdio HCS628, Herdio HMS61, Herdio HMS60

Only the model AMP-BTX01 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz



4.3 Additional Instructions

EUT Test Software Settings:					
Mode:	 Special software is used. Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* 				
EUT Power level:	Class2 (Power level is built-in set para selected)	Class2 (Power level is built-in set parameters and cannot be changed and selected)			
Use test software to set the lo	west frequency, the middle frequency and	the highest frequency keep			
transmitting of the EUT.					
Mode	Channel	Frequency(MHz)			
	CH0	2402			
DH1/DH3/DH5	СН39	2441			
	CH78 2480				
	СН0	2402			
2DH1/2DH3/2DH5	CH39	2441			
CH78 2480					

Run Software:



4.4 Test Environment

Operating Environment	Operating Environment:		
Temperature:	25.3 °C		
Humidity:	55 % RH		
Atmospheric Pressure:	1009mbar		
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
1	/	/	1	/



4.6 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 Huaxia 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.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

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



4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **IC Registration No.: 22984-1**

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10Other Information Requested by the Customer

None.



4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/9/26	2021/9/25
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/28	2021/10/27
Preamplifier	MITEQ	AFS4-00010300-18-10P- 4	CQA-035	2020/9/26	2021/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/11/2	2021/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2019/10/28	2021/10/27
Bilog Antenna	R&S	HL562	CQA-011	2019/9/26	2021/9/25
Horn Antenna	R&S	HF906	CQA-012	2019/9/26	2021/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/26	2021/9/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2020/9/26	2021/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2020/9/26	2021/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/26	2021/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/26	2021/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESPI3	CQA-013	2020/9/26	2021/9/25
LISN	R&S	ENV216	CQA-003	2020/11/5	2021/11/4
Coaxial cable	CQA	N/A	CQA-C009	2020/9/26	2021/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)						
responsible party shall be us	15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit						
	n be replaced by the user, but the use of a standard antenna jack or						
antennas with directional ga section, if transmitting anten power from the intentional ra	r limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the						
EUT Antenna:							
The antenna is integral ante	nna. The best case gain of the antenna is 0.94dBi.						





5.2 Conducted Emissions

 Conducted Emissio					
Test Requirement:	47 CFR Part 15C Section 15.2	207			
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Frequency range (MHz)	Limit (c	lBuV)		
		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	n of the frequency.			
Test Procedure:	 The mains terminal distur- room. The EUT was connected to Impedance Stabilization N- impedance. The power cal connected to a second LIS reference plane in the sam measured. A multiple sock power cables to a single LI exceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal gr The test was performed wi of the EUT shall be 0.4 m to vertical ground reference p reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated ed In order to find the maximu- equipment and all of the in ANSI C63.10: 2013 on cor 	AC power source thro etwork) which provides oles of all other units of N 2, which was bonde the way as the LISN 1 for et outlet strip was used ISN provided the rating and for floor-standing an round reference plane, th a vertical ground ref from the vertical ground plane was bonded to the 1 was placed 0.8 m fro to a ground reference and reference plane. The of the LISN 1 and the quipment was at least 0 im emission, the relative terface cables must be	bugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω line f the EUT were d to the ground or the unit being d to connect multiple g of the LISN was not c table 0.8m above the rangement, the EUT w ference plane. The rea d reference plane. The rea d reference plane. The read on the boundary of the e plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. we positions of	ear e vas ar e f	
Test Setup:	Shielding Room				
	AC Mains	AE USN2 + AC Ma Ground Reference Plane	Test Receiver		



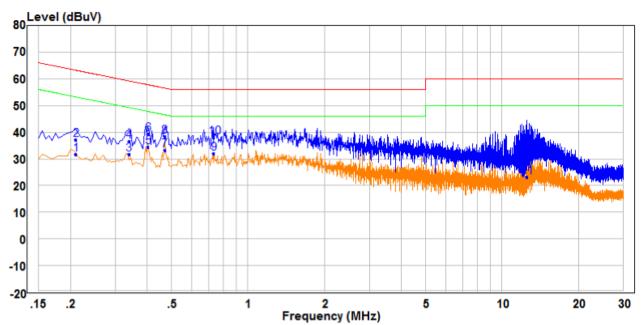


Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of
	data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass

Measurement Data



Live line:



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB		
1	0.210	22.06	9.49	31.55	53.21	-21.66	Average	Line
2	0.210	27.54	9.49	37.03	63.21	-26.18	QP	Line
3	0.340	22.07	9.50	31.57	49.20	-17.63	Average	Line
4	0.340	27.13	9.50	36.63	59.20	-22.57	QP	Line
5 PP	0.405	24.93	9.51	34.44	47.75	-13.31	Average	Line
6	0.405	29.91	9.51	39.42	57.75	-18.33	QP	Line
7	0.470	23.57	9.52	33.09	46.51	-13.42	Average	Line
8	0.470	28.94	9.52	38.46	56.51	-18.05	QP	Line
9	0.735	22.27	9.83	32.10	46.00	-13.90	Average	Line
10 QP	0.735	28.30	9.83	38.13	56.00	-17.87	QP	Line
11	12.575	13.27	9.85	23.12	50.00	-26.88	Average	Line
12	12.575	26.77	9.85	36.62	60.00	-23.38	QP	Line

Remark:

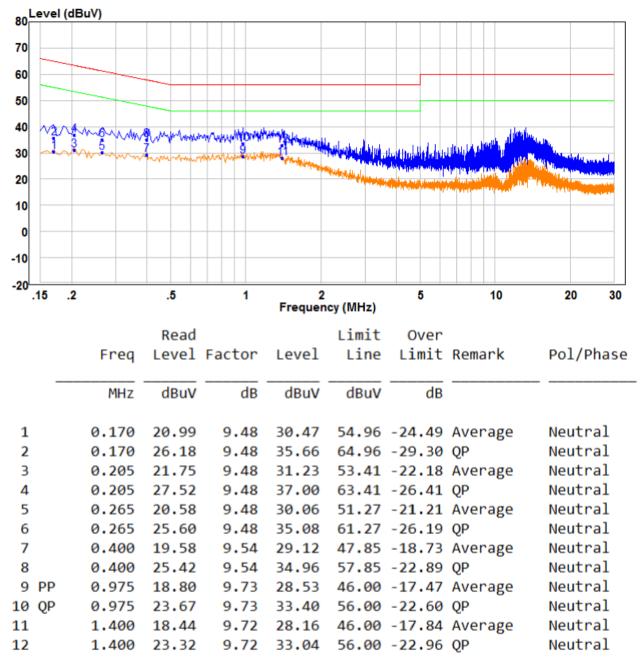
1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Limit:	21dBm
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

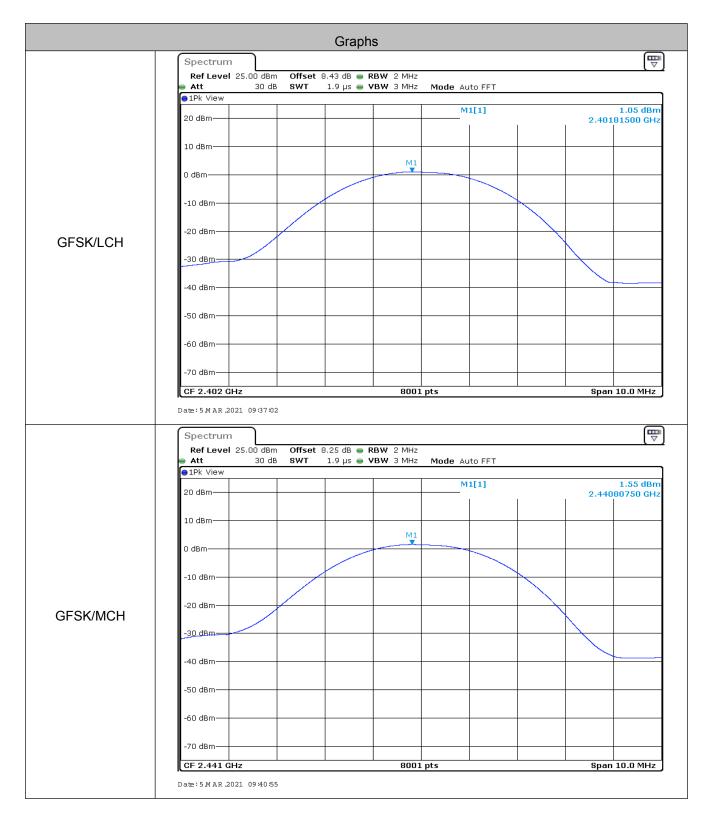


Measurement Data

	GFSK mode							
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	1.050	21.00	Pass					
Middle	1.550	21.00	Pass					
Highest	1.740	21.00	Pass					
	π/4DQPSK m	ode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	1.470	21.00	Pass					
Middle	2.030	21.00	Pass					
Highest	2.250	21.00	Pass					



Test plot as follows:





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	Spectrum									[₩]
	RefLevel 2 Att	5.00 dBm 30 dB	Offset SWT	8.25 dB 👄 F 1.9 µs 👄	RBW 2 MHz /BW 3 MHz	Mode Au	uto FFT			
	●1Pk View 20 dBm					м	1[1]		0.470	1.74 dBm
									2.479	80630 GHz
	10 dBm				M1					
	0 dBm									
	-10 dBm									
GFSK/HCH	-20 dBm									
	-30 dBm								$\overline{}$	
	-40 dBm									
	-50 dBm									
	-60 dBm									
	-70 dBm									
	CF 2.48 GHz	1 09:44:21			8001	pts	1		Span	10.0 MHz
	Date: 5 M AR .202 Spectrum Ref Level 2 Att		Offset SWT	8.43 dB 👄 F 1.9 µs 👄 \			uto FFT		Span	10.0 MHz
	Date: 5 M AR .202 Spectrum Ref Level 2	.5.00 dBm			RBW 2 MHz	Mode Au			Span	
	Date: 5 M AR .202 Spectrum Ref Level 2 Att	.5.00 dBm			RBW 2 MHz	Mode Au	uto FFT			
	Date: 5 M AR 202 Spectrum Ref Level 2 Att 1Pk View	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
	Date: 5 M AR 202 Spectrum Ref Level 2 Att IPk View 20 dBm	.5.00 dBm			RBW 2 MHz	Mode Au				.47 dBm
	Date: 5 M AR 202 Spectrum Ref Level 2 Att 1Pk View 20 dBm 10 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
	Date: 5 M AR 202 Spectrum Ref Level 2 Att 1Pk View 20 dBm 10 dBm 0 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
π/4DQPSK/LCH	Date: 5 M AR 202 Spectrum Ref Level 2 Att 1Pk View 20 dBm 10 dBm -10 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
π/4DQPSK/LCH	Date: 5 M AR 202 Spectrum Ref Level 2 Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
π/4DQPSK/LCH	Date: 5 M AR 202 Spectrum Ref Level 2 Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
π/4DQPSK/LCH	Date: 5 M AR 202 Spectrum Ref Level 2 Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm
π/4DQPSK/LCH	Date: 5 M AR 202 Spectrum Ref Level 2 Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	.5.00 dBm			BW 2 MHz BW 3 MHz	Mode Au				.47 dBm



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	Spectrum											
	Ref Level 25.00	dBm Offset O dB SWT	8.25 dB 👄 l 1.9 μs 👄 '	RBW 2 MHz VBW 3 MHz	Mode Au	uto FFT						
	●1Pk View				M	11[1]			2.03 dBm			
	20 dBm							2.440	63750 GHz			
	10 dBm			M1								
	0 dBm		-	M1								
	-10 dBm											
π/4DQPSK/MCH	-20 dBm							$\overline{\ }$				
	-30 dBm											
	-40 dBm								<u> </u>			
	-50 dBm											
	-60 dBm											
	-70 dBm											
					nte			Snan	10.0 MHz			
	CF 2.441 GHz											
	CF 2.441 GHz Date: 5 M AR .2021 09:				. pt3			opun				
	Date: 5 M AR .2021 09: Spectrum Ref Level 25.00 Att 3		8.25 dB 👄 ' 1.9 μs 👄 '		Mode A	uto FFT						
	Date: 5 M AR .2021 09: Spectrum Ref Level 25.00	dBm Offset		RBW 2 MHz	Mode At	uto FFT			2.25 dBm			
	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 1Pk View 20 dBm	dBm Offset		RBW 2 MHz	Mode At							
	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm	dBm Offset		RBW 2 MHz	Mode At				2.25 dBm			
	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 1Pk View 20 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 9 1Pk View 20 dBm 10 dBm 0 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
π/4DQPSK/HCH	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 1Pk View 20 dBm 10 dBm -10 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
π/4DQPSK/HCH	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
π/4DQPSK/HCH	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
π/4DQPSK/HCH	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
π/4DQPSK/HCH	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm -40 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode At				2.25 dBm			
π/4DQPSK/HCH	Date: 5 M AR 2021 09: Spectrum Ref Level 25.00 Att 3 9 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	dBm Offset		RBW 2 MHz VBW 3 MHz	Mode Au			2.479	2.25 dBm			



5.4 20dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)					
Test Method:	ANSI C63.10:2013					
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table					
	Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.					
Limit:	NA					
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type					
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.					
Test Results:	Pass					

Measurement Data

Test channel	20dB Occupy Bandwidth (MHz)				
rest channer	GFSK	π/4DQPSK			
Lowest	0.950	1.310			
Middle	0.948	1.314			
Highest	0.948	1.312			



Test plot as follows:





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	Spectrum					[¤
	Ref Level 25.00 dB			Mode Auto FF	т	(
	●1Pk View			M1[1]		-20.88 dB
	20 dBm					2.47953000 G
	10 dBm			M2[1]		-0.71 dB 2.47994400 Gl
	0 dBm		M2			
			1 mm	m .		
	-10 dBm	ML		<u> </u>		
	-20 dBm D1 -20.71					
	-30 dBm	Ŷ~			`\	
GFSK/HCH	-40.dBm-					~
	-50 dBm					
	-60 dBm					
	-70 dBm					
	CF 2.48 GHz		1001 pts	;		Span 2.0 MH
	Marker Type Ref Trc	X-value	Y-value	Function	Fund	ction Result
	M1 1	2.47953 GHz	-20.88 dBm			
		2.479944 GHz	-0.71 dBm			
	M2 1 D3 M1 1 Date: 5 M AR 2021 09:43:		-0.71 dBm 0.09 dB			
	M2 1 D3 M1 1 Date: 5.MAR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c	948.0 kHz	0.09 dB	Mode Auto FF	T	[[
	M2 1 D3 M1 1 Date: 5 M AR .2021 09:43 : Spectrum Ref Level 25.00 dB Att 30 c 1Pk View	948.0 kHz	0.09 dB	Mode Auto FF 	Ţ	-21.46 dB
	M2 1 D3 M1 1 Date: 5.MAR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm	948.0 kHz	0.09 dB		T	
	M2 1 D3 M1 1 Date: 5 M AR .2021 09:43 : Spectrum Ref Level 25.00 dB Att 30 c 1Pk View	948.0 kHz	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 GI
	M2 1 D3 M1 1 Date: 5.MAR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm	948.0 kHz	0.09 dB	M1[1]	T	-21.46 dB 2.40133600 GI -1.43 dB
	M2 1 D3 M1 1 Date: 5.M AR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c • 1Pk View 20 dBm 10 dBm 10 dBm	948.0 kHz	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 GI -1.43 dB
	M2 1 D3 M1 1 Date: 5.M AR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]	T.	-21.46 dB 2.40133600 GI -1.43 dB
	M2 1 D3 M1 1 Date: 5.MAR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c • 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm D1	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 Gł -1.43 dB 2.40215400 Gł
π/4DQPSK/I CH	M2 1 D3 M1 1 Date: 5.M AR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 GI -1.43 dB 2.40215400 GI
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5.MAR.2021 09:43: Spectrum Ref Level 25.00 dB Att 30 c • 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm D1	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 GI -1.43 dB 2.40215400 GI
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 M AR .2021 09:43 : Spectrum Ref Level .25.00 dB Att 30 c IPk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm 0	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 GI -1.43 dB 2.40215400 GI
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 M AR .2021 0943 : Spectrum Ref Level 25.00 dB Att 30 dB Att 30 dB 10 dBm 0 dBm -10 dBm D1 -20 dBm D1 -30 dBm -50 dBm	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]	T	-21.46 dB 2.40133600 GI -1.43 dB 2.40215400 GI
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 M AR .2021 0943 : Spectrum Ref Level .25.00 dB Att 30 c IPk View 20 dBm 10 dBm 0 dBm -10 dBm 01 -21.43 -30 dBm -30 dBm -50 dBm -50 dBm	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1]		-21.46 dB 2.40133600 GI -1.43 dB 2.40215400 GI
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 M AR .2021 0943 : Ref Level 25.00 dB Att 30 d ● 1Pk View 20 dBm 20 dBm 10 dBm -10 dBm	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1] 		-21.46 dB 2.40133600 Gi -1.43 dB 2.40215400 Gi
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 MAR.2021 0943: Ref Level 25.00 dB Att 30 c IPk View 20 dBm 10 dBm 0 -10 dBm 01 -21.43 -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz Marker	948.0 kHz 51 m Offset 8.43 dB B SWT 63.3 μs 3 dBm 3 dBm	0.09 dB	M1[1] M2[1] 		-21.46 dB 2.40133600 G -1.43 dB 2.40215400 G 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 M AR .2021 0943 : Ref Level 25.00 dB Att 30 c IPk View 20 dBm 10 dBm 0 dBm -10 dBm	948.0 kHz 51 m Offset 8.43 dB 48 SWT 63.3 μs	0.09 dB	M1[1] M2[1] 		-21.46 dB 2.40133600 Gi -1.43 dB 2.40215400 Gi
π/4DQPSK/LCH	M2 1 D3 M1 1 Date: 5 M AR 2021 0943 : Spectrum Ref Level 25.00 dB Att 30 c ● 1Pk View 20 dBm 10 dBm 0 0 dBm 0 -20 dBm D1 -20 dBm D1 -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.402 GHz Marker Type Ref Trc	948.0 kHz	0.09 dB	M1[1] M2[1] 		-21.46 dB 2.40133600 G -1.43 dB 2.40215400 G 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



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	Spectrum Ref Level 25.00 dBm	Offerst 0.05 db =	DDW 20 kus			▼
	Att 30 dB			Mode Auto FF	т	
	●1Pk View		1 1	M41543		-20.99 dBm
	20 dBm			M1[1]		2.44033400 GHz
	10 dBm			M2[1]		-0.91 dBm 2.44115400 GHz
				M2		
	0 dBm	_		Ă.		
	-10 dBm			~ from	m	
	-20 dBm-D1 -20.906 o	~ dBm			٦	
						μ ή
π/4DQPSK/MCH	-30 dBm					
	-40.dBm					- how
	-50 dBm					
	-60 dBm					
	-00 dBm					
	-70 dBm					
	CF 2.441 GHz Marker		1001 pts	;		Span 2.0 MHz
	Type Ref Trc	X-value	Y-value	Function	Fun	ction Result
	M1 1	2.440334 GHz 2.441154 GHz	-20.99 dBm -0.91 dBm			
	M2 1	2, 111111111111111111111111111111111111	0.91 0000			
	M2 1 D3 M1 1	1.314 MHz	-0.16 dB			
	D3 M1 1 Date: 5 M AR .2021 09:51:49	1.314 MHz	-0.16 dB			[□ ▽
	D3 M1 1 Date: 5 M AR .2021 09:51:49	1.314 MHz Offset 8.25 dB	-0.16 dB	Mode Auto FF	T	Ţ
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB	1.314 MHz Offset 8.25 dB	-0.16 dB	Mode Auto FF	T	-20.84 dBm
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm	1.314 MHz Offset 8.25 dB	-0.16 dB		T	-20.84 dBm 2.47933400 GHz -0.73 dBm
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View	1.314 MHz Offset 8.25 dB	-0.16 dB	M1[1] M2[1]	т	-20.84 dBm 2.47933400 GHz
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm	1.314 MHz Offset 8.25 dB	-0.16 dB	M1[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm	1.314 MHz Offset 8.25 dB	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm M1 at	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 10 dBm 10 dBm -10 dBm -20 dBm D1 -20,730 d	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm M1 at	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 10 dBm 10 dBm -10 dBm -20 dBm D1 -20,730 d	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR ,2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm 40 dBm	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]		-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB IPk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -20,730 dBm -50 dBm -50 dBm	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR ,2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm 40 dBm	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]	T	-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB IPk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm -30 dBm -20,730 dBm -50 dBm -50 dBm	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1]		-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Spectrum Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm 01 -20 dBm 01 -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm CF 2.48 GHz	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1] 		-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Ref Level 25.00 dBm Att 30 dB 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm 01 -20.730 -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz	1.314 MHz Offset 8.25 dB SWT 63.3 μs	-0.16 dB	M1[1] M2[1] 		-20.84 dBm 2.47933400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Ref Level 25.00 dBm Att 30 dB 1Pk View 20 20 dBm 10 dBm 10 dBm M1 -20 dBm 01 -20/730 (-30 dBm -60 dBm -70 dBm -70 dBm CF 2.48 GHz Marker Type Ref Trc M1 1 1	1.314 MHz Offset 8.25 dB SWT 63.3 µs dBm dBm 2.479334 GHz	-0.16 dB	M1[1] M2[1] 		-20.84 dBm 2.47993400 GHz -0.73 dBm 2.48015400 GHz
π/4DQPSK/HCH	D3 M1 1 Date: 5 M AR .2021 09:51:49 Ref Level 25.00 dBm Att 30 dB ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.48 GHz Marker Type Ref Trc	1.314 MHz Offset 8.25 dB SWT 63.3 µs dBm dBm X-value	-0.16 dB	M1[1] M2[1] 		-20.84 dBm 2.47993400 GHz -0.73 dBm 2.48015400 GHz



5.5 Carrier Frequencies Separation

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass



Measurement Data

	GFSK mod	le	
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.000	≥0.736	Pass
Middle	1.000	≥0.736	Pass
Highest	1.000	≥0.736	Pass
	π/4DQPSK m	node	
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.005	≥0.929	Pass
Middle	1.005	≥0.929	Pass
Highest	1.322	≥0.929	Pass

Mada	20dB bandwidth (MHz)	Limit (MHz)
Mode	(worse case)	(Carrier Frequencies Separation)
GFSK	0.950	0.634
π/4DQPSK	1.314	0.876



Test plot as follows:

		Gla	aphs				
	Spectrum Ref Level 25.00 d		RBW 100 kHz				
	Att 30		 RBW 100 kHz VBW 300 kHz 	Mode Auto FFT			
	● 1Pk View			M1[1]			0.91 dBm
	20 dBm			D1[1]			183654 GHz 0.00 dB
	10 dBm				-	1.	00000 MHz
	0 dBm	M1		D1			
				Λ			
	-10 dBm						
GFSK/LCH	-20 dBm						
GFSN/LCH	-30 dBm						
	-40 dBm						
	-50 dBm						
	-60 dBm						
	-70 dBm						
	Start 2.401 GHz	2:03	625 pt	S		stop	2.404 GHz
	Date: 5 M AR 2021 10:12	2:03	625 pt	.5		stup	
	Date: 5 M AR .2021 10:12	IBm Offset 8.25 dB	625 pt ● RBW 100 kHz ● VBW 300 kHz	Mode Auto FFT		<u>stop</u>	2.404 GHz
	Date: 5 M AR .2021 10:12	IBm Offset 8.25 dB	RBW 100 kHz	Mode Auto FFT			
	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30	IBm Offset 8.25 dB	RBW 100 kHz	Mode Auto FFT			.47 dBm 1.47 dBm 083654 GHz
	Date: 5 M AR 2021 10:12 Spectrum Ref Level 25.00 d Att 30 10/12 View	IBm Offset 8.25 dB	RBW 100 kHz	Mode Auto FFT		2.440	(₩) 1.47 dBm
	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 1Pk View 20 dBm 10 dBm	IBm Offset 8.25 dB	RBW 100 kHz	Mode Auto FFT		2.440	1.47 dBm 983654 GHz -0.06 dB
	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 1Pk View 20 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]	~	2.440	1.47 dBm 983654 GHz -0.06 dB
	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 1Pk View 20 dBm 10 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 1Pk View 20 dBm 10 dBm U dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1]		2.440	1.47 dBm 983654 GHz -0.06 dB
GFSK/MCH	Date: 5 M AR 2021 1012 Spectrum Ref Level 25.00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	IBm Offset 8.25 dB dB SWT 18.9 µs	RBW 100 kHz	Mode Auto FFT M1[1] D1[1] D1		2.440	1.47 dBm 983654 GHz -0.06 dB



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	Spectrum								
			8.25 dB 👄 RI 18.9 µs 👄 VI			Auto FFT			
	● 1Pk View 20 dBm					1[1]		2.478	1.72 dBm 83654 GHz
	10 dBm				D	1[1]	1	1.	-0.05 dB 00000 MHz
		M1			/	D1			
	-10 dBm			$\overline{}$					
GFSK/HCH	-20 dBm	~		~				$\left \right\rangle$	
	-30 dBm								
	-40 dBm								\rightarrow
	-50 dBm								
	-60 dBm								
	-70 dBm							Othern	2.481 GHz
	01 1 0 170 011	I							
	Start 2.478 GHz			625	pts				
	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att	0:15:17 0 dBm Offset	8.43 dB 👄 Ri 18.9 µs 👄 Vi	BW 100 kH	z	Auto FFT		3(0)	
	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View	0:15:17 0 dBm Offset		BW 100 kH	z z Mode a	Auto FFT			(₩) ⊽) 0.88 dBm
	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View 20 dBm	0:15:17 0 dBm Offset		BW 100 kH	z z Mode a			2.401	
	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View	0:15:17 0 dBm Offset	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm	0:15:17 0 dBm Offset 30 dB SWT	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm 0 dBm	0:15:17 0 dBm Offset 30 dB SWT	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
π/4DQPSK/LCH	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm -10 dBm	0:15:17 0 dBm Offset 30 dB SWT	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
π/4DQPSK/LCH	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	0:15:17 0 dBm Offset 30 dB SWT	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
π/4DQPSK/LCH	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	0:15:17 0 dBm Offset 30 dB SWT	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
π/4DQPSK/LCH	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	0:15:17 0 dBm Offset 30 dB SWT	18.9 µs 👄 ۷	BW 100 kH	z z Mode a	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB
π/4DQPSK/LCH	Date: 5 M AR 2021 1 Spectrum Ref Level 25.0 Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm	0.15:17	18.9 µs 👄 ۷	BW 100 kH	z Mode /	1[1]		2.401	0.88 dBm 83654 GHz 0.00 dB



Shenzhen Huaxia Testing Technology Co., Ltd

Report No.: CQASZ20210200171E-01

	Spectrum				
	Ref Level 25.00 c Att 30 1Pk View		 RBW 100 kHz VBW 300 kHz 	ode Auto FFT	
	20 dBm			M1[1]	1.35 dBm 2.44083654 GHz
	10 dBm			D1[1]	-0.04 dB 1.00481 MHz
	₽d₿m <u>\</u>	M1			
	-10 dBm				
	-20 dBm				
π/4DQPSK/MCH	-30 dBm				
	-40 dBm				
	-50 dBm				
	-60 dBm				
	-70 dBm				
	Start 2.44 GHz	7 :29	625 pts		Stop 2.443 GHz
	Date: 5 M AR 2021 10:27 Spectrum Ref Level 25.00 c Att 30	IBm Offset 8.25 dB	• RBW 100 kHz	ode Auto FFT	Stop 2.443 GHz
	Date: 5 M AR 2021 10:2 Spectrum Ref Level 25.00 c	IBm Offset 8.25 dB	• RBW 100 kHz		(₩)
	Date: 5 M AR 2021 10:27 Spectrum Ref Level 25.00 c Att 30	IBm Offset 8.25 dB	• RBW 100 kHz	ode Auto FFT M1[1] D1[1]	
	Date: 5 M AR 2021 10:2 Spectrum Ref Level 25.00 c Att 30 1Pk View	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25.00 c Att 30 1Pk View 20 dBm	iBm Offset 8.25 dB dB SWT 18.9 µs	• RBW 100 kHz	M1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25:00 c Att 30 1Pk View 20 dBm 10 dBm -10 dBm -10 dBm	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
π/4DQPSK/HCH	Date: 5 M AR 2021 10:2 Spectrum Ref Level 25:00 c Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
π/4DQPSK/HCH	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25:00 c Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
π/4DQPSK/HCH	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25:00 c Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
π/4DQPSK/HCH	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25:00 c Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
π/4DQPSK/HCH	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25:00 c Att 30 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz
π/4DQPSK/HCH	Date: 5 M AR 2021 10:2' Spectrum Ref Level 25:00 c Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	IBm Offset 8.25 de dB SWT 18.9 μs	• RBW 100 kHz	M1[1] D1[1]	■ 1.67 dBm 2.47883654 GHz -0.15 dB 1.32212 MHz



5.6 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Limit:	At least 15 channels
Exploratory Test Mode:	hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15



Test plot as follows:

	Graphs	
	Spectrum	
	Ref Level 25.00 dBm Offset 8.25 dB ● RBW 100 kHz ● Att 30 dB SWT 94.8 µs ● VBW 300 kHz Mode Auto FFT	
		0.81 dBm
	D1[1]	01812 GHz 0.06 dB
	10 dBm	8.342 MHz
	$M_{\rm L}^{\rm M1}$	D1 1116合
		NNN -
	-งัด ตลิติดให้แก่ได้ไปกันที่ได้มากลงหมายสนี่เกาะเห็นการให้เกาสุขมายการให้ให้ก็หลังได้การให้การให้แก่งสมัยกระได้	10000
GFSK/Hop	-20 dBm	
	-30 dBm	
	40 dBm	
	-50 dBm	المالي
	-60 dBm	
	-70 dBm	
		4835 GHz
		4835 GHz
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR .2021 10:17:27	
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR .2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB • RBW 100 kHz	4835 GHz
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR 2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB • RBW 100 kHz Mode Auto FFT • Att 30 dB SWT 94.8 µs • VBW 300 kHz Mode Auto FFT	
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR .2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB • RBW 100 kHz Mode Auto FFT • Att 30 dB SWT 94.8 µs • VBW 300 kHz • Drk View	.76 dBm 0.76 dBm 01812 GHz
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5.MAR.2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT • 1Pk View 0 dB WT 94.8 µs • VBW 300 kHz Mode Auto FFT • 1Pk View 0 dBm 01[1] 78	(₩) 0.76 dBm
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR .2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT Image: 1 to 10 dBm 76 M1 Image: 1 to 10 dBm Image: 1 to 10 dBm 76 10 dBm 76	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz D1
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR .2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT Image: 1 to 10 dBm 76 M1 Image: 1 to 10 dBm Image: 1 to 10 dBm 76 10 dBm 76	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR.2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT • 1Pk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR.2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT • 1Pk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR.2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT • 1Pk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR.2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT • 1Pk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR.2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT • 1Pk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 MAR 2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Mode Auto FFT Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT IPk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR. 2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT IPk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR 2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB • RBW 100 kHz Mode Auto FFT • Att 30 dB SWT 94.8 µs • VBW 300 kHz Mode Auto FFT Image: start st	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz
π/4DQPSK/Hop	Start 2.4 GHz 600 pts Stop 2.4 Date: 5 M AR. 2021 10:17:27 Spectrum Ref Level 25.00 dBm Offset 8.25 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT IPk View	0.76 dBm 01812 GHz 0.78 dB 8.063 MHz



5.7 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table
	Ground Reference Plane
	Remark: Offset=Cable loss+ attenuation factor.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass



Measurement Data

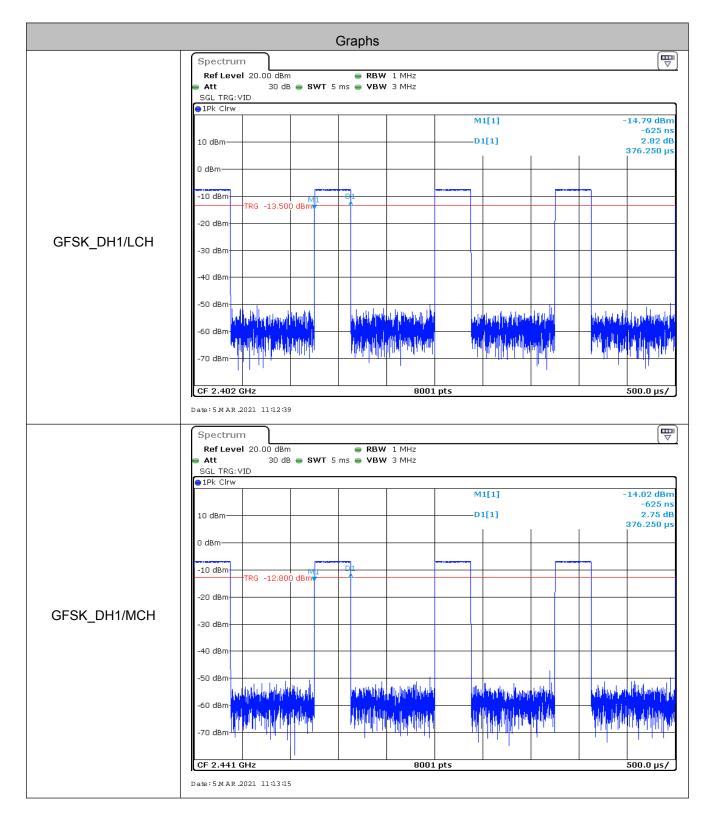
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Dwell Time[s]	Limit (second)
GFSK	DH1	LCH	0.38	0.122	≤0.4
GFSK	DH1	МСН	0.38	0.122	≤0.4
GFSK	DH1	НСН	0.38	0.122	≤0.4
π/4DQPSK	2DH1	LCH	0.39	0.125	≤0.4
π/4DQPSK	2DH1	МСН	0.39	0.125	≤0.4
π/4DQPSK	2DH1	НСН	0.39	0.125	≤0.4
GFSK	DH3	LCH	1.63	0.261	≤0.4
GFSK	DH3	МСН	1.63	0.261	≤0.4
GFSK	DH3	НСН	1.63	0.261	≤0.4
π/4DQPSK	2DH3	LCH	1.64	0.262	≤0.4
π/4DQPSK	2DH3	МСН	1.64	0.262	≤0.4
π/4DQPSK	2DH3	НСН	1.64	0.262	≤0.4
GFSK	DH5	LCH	2.88	0.307	≤0.4
GFSK	DH5	МСН	2.88	0.307	≤0.4
GFSK	DH5	НСН	2.88	0.307	≤0.4
π/4DQPSK	2DH5	LCH	2.88	0.307	≤0.4
π/4DQPSK	2DH5	МСН	2.88	0.307	≤0.4
π/4DQPSK	2DH5	НСН	2.88	0.307	≤0.4

Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s DH1/2DH1/3DH1 Dwell time = Burst Width(ms)*(1600/ (2*79))*31.6 DH3/2DH3/3DH3 Dwell time = Burst Width (ms)*(1600/ (4*79))*31.6 DH5/2DH5/3DH5 Dwell time = Burst Width (ms)*(1600/ (6*79))*31.6



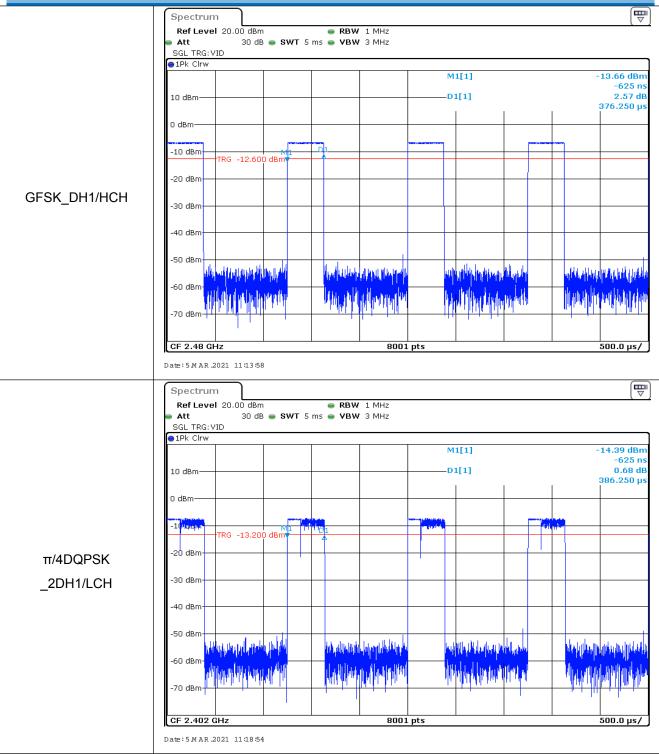
Test plot as follows:



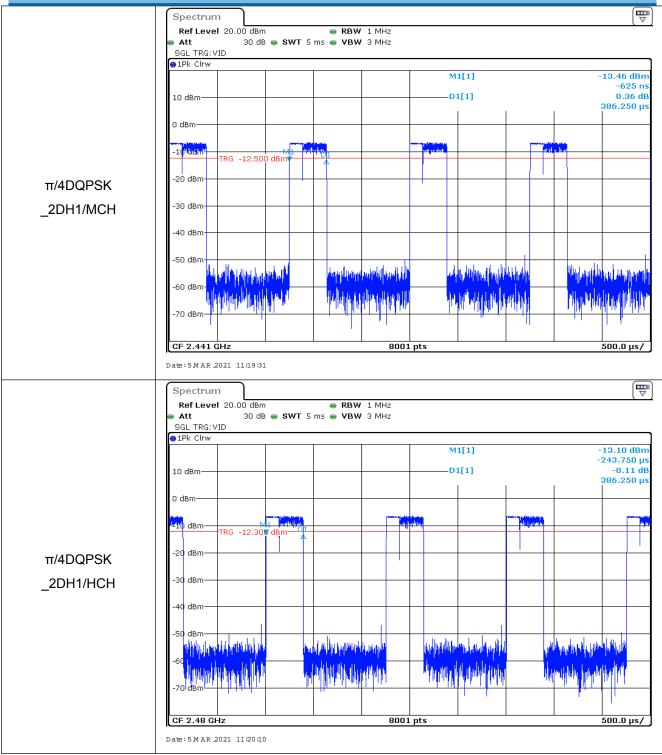


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	Spectrum		
	Ref Level 20.00 dBm	RBW 1 MHz	(•)
	● Att 30 dB ● SWT 10 ms SGL TRG:VID	• VBW 3 MHz	
	1Pk Clrw	-8.56 dBm	
	10 dBm	M1[1]	0.00000000 s -0.36 dB
			1.63125 ms
	0 dBm		
	-10 dBm		
	TRG -13.500 dBm		
	-20 dBm		
GFSK_DH3/LCH	-30 dBm		
	-40 dBm		
	-50 dBm	المتعلقية وتعديه والمتالي والمتعادية والمتعادية	hille of the second second block of Mile as welling the
	-60	n rikk in the transfer the internation	della da vila dal mán bas or na altidad
	-70 dBm	and the difference of the manual	all brown or in the light of the
	CF 2.402 GHz	8001 pts	1.0 ms/
	Date: 5 M AR .2021 11:14:46		
	Spectrum		
	Ref Level 20.00 dBm Att 30 dB SWT 10 ms	 RBW 1 MHz VBW 3 MHz 	
	SGL TRG:VID		
		M1[1]	-7.24 dBm 0.00000000 s
	10 dBm	D1[1]	-1.93 dB 1.63125 ms
	0 dBm		1.03123 ms
	M1		
	-10 dBm		
	-20 dBm		
GFSK_DH3/MCH	-30 dBm		
	-50 0811		
	-40 dBm		
	-50 dBm		
			an an start a bar a bar a bar a bar a bar
	-70 dBm		
	CF 2.441 GHz	9001 ptc	1.0 mc/
	Date: 5 M AR .2021 11:15:27	8001 pts	1.0 ms/



	Spectrum										
	Ref Level 20.00 dBm Att 30 dB SWT 10 ms	 RBW 1 MHz VBW 3 MHz 									
	SGL TRG:VID										
		M1[1]	-6.77 dBm 1.25 µs								
	10 dBm	D1[1]	-0.11 dB 1.63000 ms								
	0 dBm										
	M1										
	-10 dBm										
	-20 dBm										
GFSK_DH3/HCH	-30 dBm										
	-40 dBm										
	-50 dBm										
			the data printing in the product of the estimated in the second sec								
			<mark>hilitetti</mark> altekke hiliti altekke								
	-70 dBm		1 1 1 1 1 1 1 1 1 1								
	CF 2.48 GHz	8001 pts	1.0 ms/								
	Date: 5 MAR.2021 11:16:04	0001 pt3	1.0 1137								
	Spectrum										
	Ref Level 20.00 dBm Att 30 dB SWT 10 ms	RBW 1 MHz	(*)								
	SGL TRG: VID										
		M1[1]	-9.27 dBm 0.00000000 s								
	10 dBm	D1[1]	-1.08 dB 1.63750 ms								
	0 dBm										
	-10 pBm TPC 12 100 dpm										
	TRG -13.100 dBm										
π/4DQPSK	-20 dBm										
_2DH3/LCH	-30 dBm										
	-40 dBm										
	-50 #Bm										
	and the mark of the second	plant the with stand the doubt had	glasted estimate the bulk of the solution beatters.								
		a the particular of the state o									
	-70 dBm										
	CF 2.402 GHz	8001 pts	1.0 ms/								
	Date: 5 M AR .2021 11:20:48	F									
<u> </u>											



	Spectrum										
	Ref Level 20.00 dBm										
	_SGL TRG: VID	s 🖶 VBW 3 MHz									
	●1Pk Clrw	M1[1]	-6.86 dBm								
	10 dBm	D1[1]	1.25 μs -1.93 dB								
			1.63625 ms								
	0 dBm										
	TRG -12.400 dBm										
π/4DQPSK	-20 dBm										
_2DH3/MCH	-30 dBm										
	-40 #Bm										
	-50 dBm	المعقر والمعالية والمعالم والمعار والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعالية والمعا	مريطين المراجع والمراجع والمراجع								
	-60	ninal and here to add induce	a dibban kultur dia dina dan dia k								
	-70 dBm	test day, it footwatch of the	a It dates in the state of the								
	CF 2.441 GHz	8001 pts	1.0 ms/								
	Date:5MAR.2021 11:21:40										
	Spectrum T										
	RefLevel 20.00 dBm ● Att 30 dB ● SWT 10 m	 RBW 1 MHz VBW 3 MHz 	<u>`</u>								
	SGL TRG: VID										
		M1[1]	-6.66 dBm								
	10 dBm	D1[1]	-393.75 μs -2.03 dB								
	0.40m		1.63625 ms								
	0 dBm	ana ata ta 1 ana ata ata ata ata ata ata ata ata ata									
	-10 dBm TRG -12.200 dBm		or understalight and the second se								
	-20 dBm										
π/4DQPSK											
_2DH3/HCH	-30 dBm										
	-40 dBm										
	-50 dBm-										
		strates of the Plant production are a field	provided, perpeterized a feature of a feature of the set								
	9. Martin 140 Lane 261 Atraite		AND THE ALL AND A DAY AND A DAY AND A								
	-70 dBm										
	CF 2.48 GHz	8001 pts	1.0 ms/								
	Date: 5 M AR 2021 11:22:20										



	Spectrum										
	RefLevel 20.00 dBm ● Att 30 dB ● SWT 15 ms	RBW 1 MHz VBW 3 MHz									
	SGL TRG: VID										
		M1[1]	-7.55 dBm								
	10 dBm	D1[1]	0.00000000 s -0.24 dB								
	0.40m		2.87812 ms								
	0 dBm	D1									
	-10 dBm										
	-20 dBm										
GFSK_DH5/LCH	-30 dBm										
	-40 dBm										
	-50 dBm	the state of the state of the state	attin to construction								
	-6t viter to the first of the state of the s	ation folge and a series of the prove of the folget of the series of the									
	ومقالاته فرافه والمعام ومرابع والمقط والكفور		als, althur franklik site								
	-70 dBm										
	CF 2.402 GHz	8001 pts	1.5 ms/								
	Date: 5 M AR 2021 11:16:48										
	Spectrum 🕎										
	Ref Level 20.00 dBm Att 30 dB SWT 15 ms	RBW 1 MHz VBW 3 MHz									
	SGL TRG: VID										
		M1[1]	-6.84 dBm 1.88 µs								
	10 dBm	D1[1]	-0.03 dB 2.87625 ms								
	0 dBm										
	M1										
	-10 dBm										
	-20 dBm										
GFSK_DH5/MCH	-30 dBm										
	-40 dBm										
	-50 dBm	التربك بالسار ويتربن والروار وبالتربل والمتعادين والمتعاوية ويتربه	بديناسك سرينا ليدار والتفريل								
		tin a the second second states in the determined of the	a di na ja ka na								
	-70 dBm	. rut . r	e dha e ran a' a								
	CF 2.441 GHz	8001 pts	1.5 ms/								
	Date: 5 M AR .2021 11:17:31										



	Spectrum										
	🖷 Att 30 dB 🖷 SWT 15 ms 🖷	RBW 1 MHz VBW 3 MHz									
	SGL TRG: VID 1Pk Clrw										
		M1[1]	-6.65 dBm 1.88 µs								
	10 dBm	D1[1]	-0.60 dB 2.87812 ms								
	0 dBm										
	M1										
	-10 dBm										
	-20 dBm										
GFSK_DH5/HCH	-30 dBm										
	-40 dBm										
	-50 dBm	an far far han tig the shafter of styles	al that we have also all the second								
	-66 at late things to a right the start in the		have the all the baseling.								
	a tota da a da la alta la da la da	a terra da publica da la proposición de la companya da proposición de la companya da proposición de la company	, in the solution of the second s								
	-70 dBm										
	CF 2.48 GHz	8001 pts	1.5 ms/								
	Date: 5 M AR 2021 11:18:05										
	Spectrum T										
	Ref Level 20.00 dBm (Att 30 dB (SWT 15 ms (RBW 1 MHz									
	SGL TRG: VID										
	• IPK Cirw	M1[1]	-7.59 dBm								
	10 dBm	D1[1]	0.00000000 s -1.29 dB								
	0 dBm		2.88375 ms								
	Mi										
	-10 dBm										
π/4DQPSK	-20 dBm										
	-30 dBm										
_2DH5/LCH											
	-40 dBm										
	-50 dBm		Real Configuration								
		ինդ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ally than an ter barry and								
	-edulation a territoria da attractione da attractione de la constructione de la constr	a thath firm is the most firm of	halibed, care a blaadater, delfare to								
	-70 dBm										
	CF 2.402 GHz	8001 pts	1.5 ms/								
	Date: 5 MAR.2021 11:22:56	·									



	Spectrum											
	Ref Level 20.00 dBm	RBW 1 MHz	(•)									
	_SGL TRG: VID	🏹 15 ms 👄 🛛 🗷 🖓 MHz										
	●1Pk Clrw	M1[1]	-6.85 dBm									
			-1.51688 ms									
	10 dBm	D1[1]	-1.38 dB 2.88375 ms									
	0 dBm											
	M1											
	-10 dBm TRG -12.400 dBm											
π/4DQPSK	-20 dBm											
_2DH5/MCH	-30 dBm											
	-40 dBm											
	-50 dBm	. But the state of the first the first the state of the s	a film of the film									
	without a kini b durbit	and fillings a literation of the rate of the filling of	na na handi a tanan kala da king kala king kala king kala king kala king kang kala king kang kang kang kang ka									
	-70 dBm	T T T T T T T T T T T T T T T T T T T	A unit of the second									
	CF 2.441 GHz	8001 pts	1.5 ms/									
	Date: 5 MAR 2021 11:23:35											
	Spectrum	Spectrum T										
	Ref Level 20.00 dBm Att 30 dB • SW	● RBW 1 MHz TT 15 ms ● VBW 3 MHz	<u></u>									
	SGL TRG: VID											
	●1Pk Clrw	M1[1]	-6.67 dBm									
	10 dBm	D1[1]	-1.42875 ms -1.52 dB									
			2.88375 ms									
	0 dBm											
	-10 dBm TRG -12.200 dBm											
π/4DQPSK	-20 dBm											
_2DH5/HCH	-30 dBm											
	-40 dBm											
	-50 dBm											
			AT AT THE REAL AND A DEPARTMENT OF THE REAL AND A DEPARTMENT OF THE REAL AND A DEPARTMENT OF THE REAL AND A DE									
		<u> </u>	and the state of the									
	-70 dBm											
	CF 2.48 GHz	8001 pts	1.5 ms/									
	Date: 5 M AR .2021 11:24:15											



5.8 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=cable loss+ attenuation factor.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass



Mode	Test Channel	Frequency [MHz]	Frequency Hopping	Emission Level [dBm]	Limit [dBm]	Result
			Off	-42.650	-19	PASS
GFSK	LCH	2400	On	-35.170	-18.05	PASS
			Off	-48.470	-18.32	PASS
GFSK	HCH	2483.5	On	-49.810	-18.18	PASS
			Off	-42.640	-19.05	PASS
π/4DQPSK	LCH	2400	On	-36.120	-18.14	PASS
			Off	-52.170	-18.5	PASS
π/4DQPSK	HCH	2483.5	On	-53.450	-18.26	PASS



Test plot as follows:

		Graph	S								
	Spectrum					E					
	Ref Level 25.00 dB										
	e Att 30 (1Pk View	iB SWT 151.7 μs 🖷	VBW 300 kHz	Mode Auto F	FT						
	20 dBm			M1[1]		1.00 dBm					
				M2[1]		2.4018440 GHz -42.65 dBm					
	10 dBm				M1	2.4000000 GHz					
	0 dBm				1						
	-10 dBm										
	-20 dBm-D1 -19.00	0 dBm=									
	-30 dBm				M5 T						
GFSK/LCH/No Hop	-40 dBm										
	50 dBm	hard and a state of the state o	and the second second	43		al second in the distance of					
	-60 dBm	Helen of the second	and share the termines of the	entertainternation of his	A M. M. MANA	nth <mark>andriancelinence.pharandlandance.na</mark> i					
	-70 dBm										
	Start 2.31 GHz Marker		8001 pt	5		Stop 2.441 GHz					
	Type Ref Trc	X-value	Y-value	Function	Fu	nction Result					
	M1 1 M2 1	2.401844 GHz 2.4 GHz	1.00 dBm -42.65 dBm								
	M3 1	2.39 GHz	-53.99 dBm								
	M4 1 M5 1										
	Date: 5 MAR .2021 09:37:	33									
	Spectrum										
	Ref Level 25.00 dB		RBW 100 kHz VBW 300 kHz	Mode Auto F	FT						
	1Pk View			Mode Autor]					
	20 dBm			M1[1]		1.95 dBm 2.429760 GHz					
	10 dBm			M2[1]		-35.17 dBm					
					1	2.40000 GHz					
	0 dBm					ANNA ANNA ANNA ANNA ANNA ANNA ANNA ANN					
	-10 dBm					<u>M North All All All All All All All All All Al</u>					
	-20 dBmD1 -18.05	0 dBm									
	-20 dBm-										
	-30 dBm				MM2						
GFSK/LCH/Hop	-40 dBm				<u> </u>						
				M3 Mir							
	50.dBm-mark	many manager and the	un mound	un market had	·						
	-60 dBm					+					
	-70 dBm										
	Start 2.31 GHz		600 pts	;		Stop 2.441 GHz					
	Marker										
	Type Ref Trc	2.42976 GHz	Y-value 1.95 dBm	Function	Fu	nction Result					
	M2 1	2.4 GHz	-35.17 dBm								
	M3 1 M4 1	2.39 GHz 2.31 GHz	-51.03 dBm								
	M4 1 M5 1	2.31 GHz 2.398135 GHz	-51.64 dBm -34.62 dBm								
	Date: 5 MAR .2021 10:10:	25									



	Spectrum									E		
	Ref Level 3				RBW 100 kHz							
	Att 1Pk View	30 dE	SWT .	75.8 µs 👄	VBW 300 kHz	2 Mode Au	ito FFT					
						M1[1]			1.68 dBm		
	20 dBm					MOL				84050 GHz 48.47 dBm		
	10 dBm					M2[.11			50000 GHz		
	0 dBm				M1							
	0 ubiii											
	-10 dBm											
	-20 dBm-D	1 -18.320	dBm 									
	-30 dBm											
GFSK/HCH/No Hop	-40 dBm					M4						
				MA		7		140				
	-50 dBm	makinghan	willing a better	Verylynak	War Mary	Muterluminterested	when when	M3	and the second second second second	antering Minimuter		
	-60 dBm		*									
	70 -10											
	-70 dBm								_			
	CF 2.4835 G Marker	Hz			8001	pts			Span	60.0 MHz		
	Type Ref	Trc	X-value		Y-value	Functio	on	Func	tion Result			
	M1 M2	1	2.47984		1.68 dBr							
	M3	1		35 GHz 1.5 GHz	-48.47 dBr -52.82 dBr							
	M4	1	2.48446	75 GHz	-45.19 dBr	m						
	Date: 5 MAR.202	21 09:44:53	3									
		_										
	Spectrum											
	Ref Level 3 Att	RefLevel 25.00 dBm Offset 8.25 dB ● RBW 100 kHz ● Att 30 dB SWT 75.8 µs ● VBW 300 kHz Mode Auto FFT										
	o 1Pk View		, oni	10.0 p5 🕳	101 300 KHZ	. Mode Au						
	20 dBm-					M1[[1]			1.82 dBm		
	20 0.0					M2[11			58500 GHz 49.81 dBm		
	10 dBm			M1						35000 GHz		
	iØ kdBmr <u>v → rom</u>		a a a a a b									
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		1 -18.180	1									
	-30 dBm											
GFSK/HCH/Hop	-40 dBm				-							
					M2	2		мз		/14 ▼		
	-50 dBm				Sec. 1	Mathath	www.	and were	dubuhna	Monto		
	-60 dBm											
	-70 dBm											
	CF 2.4835 G	Hz			600	pts			Span	60.0 MHz		
	Marker Type Ref	Trc	X-value	.	Y-value	Functio	on	Func	tion Result	1		
	M1	1	2.475	85 GHz	1.82 dBr	n						
	M2 M3	1		35 GHz 1.5 GHz	-49.81 dBr -52.06 dBr							
	M4	1	2.5079		-48.23 dBr							
	Date: 5 MAR.202	21 10:19:0	5									



тr/4DQPSK/LCH/No Hop Tr/4DQPSK/LCH/No Hop Tr/4DQPS		Spectrum	\neg									Ē
т/4DQPSK/LCH/Hop High Interference T/4DQPSK/LCH/Hop High Interference T/4DQPSK/LCH/Hop High Interference T/4DQPSK/LCH/Hop High Interference Type Interferen		-		n Offset	8.43 dB 🧉	RBW 100 kH	z					[♥
Tr/4DQPSK/LCH/No 30 dbm 10 dbm <td< td=""><td></td><td></td><td>30 dE</td><td>B SWT :</td><td>L51.7 μs 🥃</td><td>VBW 300 kH</td><td>z Mod</td><td>le Auto P</td><td>FT</td><td></td><td></td><td>,</td></td<>			30 dE	B SWT :	L51.7 μs 🥃	VBW 300 kH	z Mod	le Auto P	FT			,
π/4DQPSK/LCH/No Image: Control of the second s								M1[1]				0.95 dBm
10 dbm 2.4000000 GH -10 dbm -10 dbm -10 dbm -10 dbm -20 dbm -10 dbm -30 dbm -10 dbm -40 dbm -10 dbm -30 dbm -10 dbm -40 dbm -10 dbm -30 dbm -10 dbm -40 dbm -11 dbm -50 dbm -11 dbm -40 dbm -11 dbm -70 dbm -12 dbm -70 dbm -11 dbm		20 dBm						-				18440 GHz
тг/4DQPSK/LCH/No 0 dm 0 dm <td></td> <td>10 dBm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>M2[1]</td> <td></td> <td></td> <td></td> <td></td>		10 dBm						M2[1]				
π/4DQPSK/LCH/No Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Sign Bin Image: Control 1 - 19 - 050 dim Sign Bin Image: Control 1 - 19 - 050 dim Sign Bin Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim Image: Control 1 - 19 - 050 dim I		0 dBm						_				
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π/4DQPSK/LCH/No 90.8m 1		-10 dBm										
Tr/4DQPSK/LCH/No Hop -0 dbm -0 dbm <td></td> <td>-20 dBm[</td> <td>01 -19.050</td> <td>) dBm=====</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		-20 dBm[01 -19.050) dBm=====								
Hop 40 dbm 10 dbm <td></td> <td>-30 dBm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>M5</td> <td></td> <td></td> <td></td>		-30 dBm							M5			
Hop Iso dom Iso dom <thiso dom<="" th=""> <thiso dom<="" th=""> <thiso< td=""><td>π/4DQPSK/LCH/No</td><td>40 d8m</td><td></td><td></td><td></td><td></td><td></td><td></td><td>MP</td><td></td><td></td><td></td></thiso<></thiso></thiso>	π/4DQPSK/LCH/No	40 d8m							MP			
Mile Mile <t< td=""><td>Hop</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Hop											
Implementation Implementation Implementation Implementation 10 dBm 1 2.401844 GHz 8001 pts Stop 2.441 GHz Marker Type Ref Trc 2.401844 GHz 0.95 dBm Function Result M1 1 2.401844 GHz 0.95 dBm Function Result M1 1 2.30 GHz -22.01 dBm -23.01 dBm M3 1 2.30 GHz -23.01 dBm -23.01 dBm M4 1 2.30 GHz -34.59 dBm -24.51 GHz Date: 5X AR 2021 094851 Spectrum Tr Tr Ref Level 25.00 dBm Offset 8.43 dB @ RBW 100 HHz -43.03 dB & RBW 100 HHz -43.03 dB & RBW 100 HHz Att 30 dBm	nop	450 dBm	Un un brander	-	Man Marked Market	and and the second of	hunder	m fran / h	WW	WHILL MANAGER	where we are the	il.m.m.alfraid.com
Start 2.31 GHz B001 pts Stop 2.441 GHz Marker Function Function Result Ma 1 2.401044 GHz 0.95 dBm Ma 1 2.39 GHz -52.66 dBm M4 1 2.39 GHz -52.66 dBm M4 1 2.39 GHz -52.66 dBm M5 1 2.396163 GHz -34.59 dBm Date: 5 MAR.2021 094861 Figure 4.50.01 dBm Figure 4.50.01 dBm Ref Level 25.00 dBm Offset 8.43 dB @ RBW 100 kHz .43.1040 dHz Att 30 dB SWT 151.7 µz @ VBW 300 Hz .43.1040 dHz 20 dBm - - .43.1040 dHz .43.1040 dHz 10 dBm - - - .43.1040 dHz 20 dBm - - - - .43.1040 dHz 20 dBm - - - - .43.1040 dHz 10 dBm - - - - .43.1040 dHz - - - - - .43.1040 dHz			-		"							
Start 2.31 GHz B001 pts Stop 2.441 GHz Marker Function Function Result Mg 1 2.401844 GHz 0.95 dBm M3 1 2.39 GHz -52.69 dBm M4 1 2.39 GHz -52.69 dBm M3 1 2.39 GHz -52.69 dBm M5 1 2.390163 GHz -34.59 dBm Date: 5M & R. 2021 094861 File File File Ref Level 25.00 dBm Offset 8.43 dB @ RBW 100 kHz Image: Start 2.31 GHz File 0 dB SW1 151.7 µs @ VBW 300 Hz Image: Start 2.31 GHz Start 2.431940 GHz 10 dBm Image: Start 2.31 GHz Marker Mil[1] 1.86 dBm 20 dBm Image: Start 2.31 GHz Marker Image: Start 2.31 GHz Start 2.31 GHz 30 dB Image: Start 2.31 GHz Start 2.31 GHz Start 2.31 GHz Start 2.31 GHz 30 dBm Image: Start 2.31 GHz Start 2.31 GHz Start 2.31 GHz Start 2.32 GHz 30 dBm Image: Start 2.31 GHz Start 2.31 GHz Start 2.32 GHz Start 2.32 GHz Start 2.32 GHz 31		-70 dBm										
Marker Ype Ref Trc X-value Function Function Result M3 1 2.90 GHz 0.95 dHm			3Hz			8001	nts				Ston 3	2 441 GHz
m1 1 2.401844 GHz 0.95 dbm M3 1 2.39 GHz -52.69 dbm M4 1 2.31 GHz -52.69 dbm M5 1 2.398163 GHz -34.59 dbm Date: 5 M AR 2021 094851 Trife Level 25.00 dbm Offset 8.43 db RBW 100 KHz Mark 2021 094851 Trife Level 25.00 dbm Offset 8.43 db RBW 100 KHz Mark 2021 094851 Trife Level 25.00 dbm Offset 8.43 db RBW 100 KHz Mode Auto FFT 0 Fk View 20 dbm 1.06 dbm .06.12 dbm 2.433940 GHz 0 dbm .01 dbm 0 dbm .02 dbm 0 dbm .03 dbm						0001	pt5				00007	
M2 1 2.4 GH2 -42.64 dm								nction		Func	tion Result	
M4 1 2.31 GH2 -52.01 dtm Date: 5 M.R. 2021.094851 -34.59 dtm -34.59 dtm Spectrum Tr Tr Ref Level 25.00 dtm Offset 8.43 dth RBW 100 kH2 Att 30 db SWT 151.7 µs VBW 300 kH2 Mode Auto FFT File Nititi 1.86 dtm M1[1] 2.431940 GH4 10 dtm M2[1] 2.431940 GH4 M2[1] 2.431940 GH4 10 dtm M2[1] 2.431940 GH4 M2[1] 2.431940 GH4 20 dtm M2[1] 2.431940 GH4 M2[1] 2.431940 GH4 10 dtm M2[1] 2.431940 GH4 M2[1] 2.431940 GH4 20 dtm Mature M2[1] 2.431940 GH4 M4 20 dtm Mature Mature Mature Mature 20 dtm Mature Mature Mature Mature Mature 30 dtm Mature Mature Mature Mature Mature 30 dtm Mature Mature Mature <t< td=""><td rowspan="3"></td><td>M2</td><td></td><td>2</td><td>.4 GHz</td><td>-42.64 dBr</td><td>n</td><td></td><td></td><td></td><td></td><td></td></t<>		M2		2	.4 GHz	-42.64 dBr	n					
MS 1 2.398163 GHz -34.59 dBm Date: 5 M AR. 2021. 0948 51 Tree Tree Tree Tree Ref Level 25.00 dBm Offset 8.43 dB RBW 100 kHz Mode Auto FFT Image: Att 30 dB SWT 151.7 µs VBW 300 kHz Mode Auto FFT Image: Att 30 dB MI[1] 2.431940 GH -36.12 dBm 10 dBm												
TT/4DQPSK/LCH/Hop Spectrum Mail Mai												
TT/4DQPSK/LCH/Hop Spectrum Mail Mai		Date: 5 MAR .20	021 09:48:5	1								
TT/4DQPSK/LCH/Hop		Ref Level Att	25.00 dBn					le Auto F	FT			(~
TT/4DQPSK/LCH/Hop								M1[1]				1.86 dBm
10 dBm 2.400,00 GH 0 dBm 10 dBm -10 dBm -10 dBm -20 dBm 01 -18.140 dBm -30 dBm -10 dBm -30 dBm -10 dBm -30 dBm -10 dBm -40 dBm -10 dBm -50 dBm -10 dBm -60 dBm -10 dBm -70 dBm -10 dBm		20 ubiii						M2[1]				
TT/4DQPSK/LCH/Hop		10 dBm						m2[1]				
TT/4DQPSK/LCH/Hop		0 dBm						_		AAA AAAAaD	CANAD DANA	MANAMAKAN
π/4DQPSK/LCH/Hop		-10 d8m								WWWWWWW	www.loogolloo	
π/4DQPSK/LCH/Hop -30 dBm -30 dBm -40												
π/4DQPSK/LCH/Hop -40 dBm -40		-20 dBm	JI -18.14U	abm <u></u>								
П/4DQPSK/LCH/Hop		-30 dBm						_	MAIZ			
150.dBm 13/W -60 dBm -60 dBm -70 dBm -60 dBm Start 2.31 GHz 600 pts Stort 2.31 GHz 600 pts Stort 2.31 GHz 600 pts Stort 2.31 GHz 600 pts Marker		-40 dBm							M			
-60 dBm -60 dBm -70 dBm -70 dBm Start 2.31 GHz 600 pts Start 2.31 GHz 600 pts Stop 2.441 GHz Marker Marker M1 1 M2 1 M3 1 M4 1 M4 1 M5 1 2.398135 GHz -34.60 dBm								мз "М	M			
Type Ref Trc X-value Y-value Function Function Result Marker M1 1 2.43194 GHz 1.86 dBm Function Function Result M1 1 2.43194 GHz -36.12 dBm Function Function Result M3 1 2.39 GHz -51.71 dBm Function Function Result M4 1 2.31 GHz -51.22 dBm Function Function		-SQLd&pturt	mm	thomas more	- And Martin	monent	tennen	white and the second				
Start 2.31 GHz 600 pts Stop 2.441 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.43194 GHz 1.86 dBm M2 1 2.4 GHz -36.12 dBm		-60 dBm										
Start 2.31 GHz 600 pts Stop 2.441 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.43194 GHz 1.86 dBm M2 1 2.4 GHz -36.12 dBm M3 1 2.39 GHz -51.71 dBm		-70 dBm										
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.43194 GHz 1.86 dBm <td></td> <td>3Hz</td> <td></td> <td></td> <td>600</td> <td>nts</td> <td></td> <td></td> <td></td> <td>Ston 3</td> <td>2 441 GHz</td>			3Hz			600	nts				Ston 3	2 441 GHz
M1 1 2.43194 GHz 1.86 dBm M2 1 2.4 GHz -36.12 dBm M3 1 2.39 GHz -51.71 dBm M4 1 2.31 GHz -51.22 dBm M5 1 2.398135 GHz -34.60 dBm		<u> </u>				000					0.00	
M2 1 2.4 GHz -36.12 dBm M3 1 2.39 GHz -51.71 dBm M4 1 2.31 GHz -51.22 dBm M5 1 2.398135 GHz -34.60 dBm								nction	1	Func	tion Result	
M3 1 2.39 GHz -51.71 dBm M4 1 2.31 GHz -51.22 dBm M5 1 2.398135 GHz -34.60 dBm												
M5 1 2.398135 GHz -34.60 dBm		M3	1	2.	39 GHz	-51.71 dBr	n					
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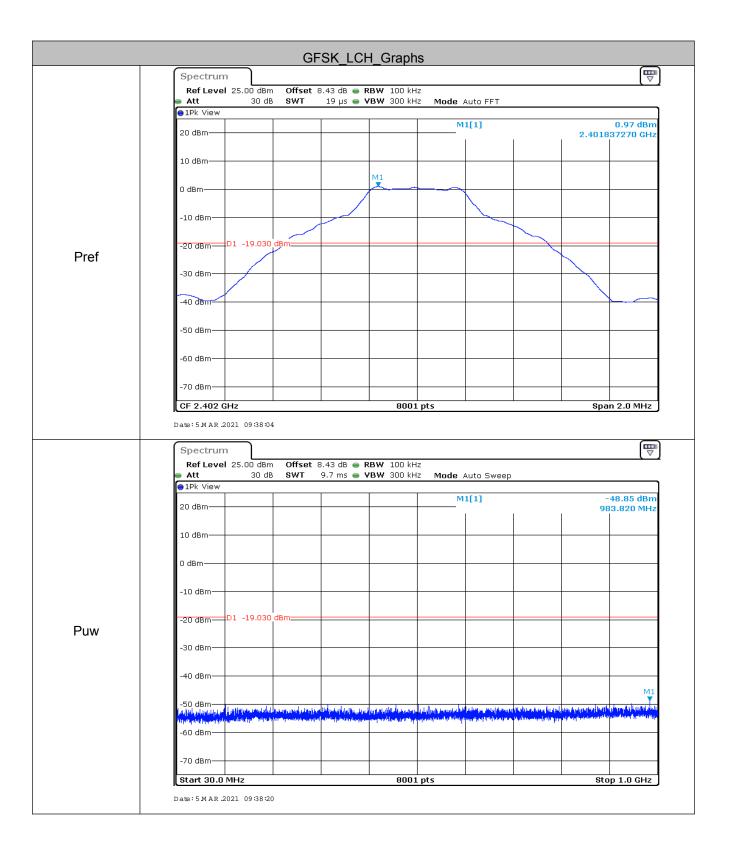
	Spectrun	n									E		
		1 25.00 dBm											
	Att 1Pk View	30 dE	SWT 75.8	µs 👄 VI	BW 300 k	Hz	Mode A	uto FFT					
	20 dBm-					Τ	M	l[1]			1.50 dBm		
	20 uBm						M	2[1]			15540 GHz 52.17 dBm		
	10 dBm							2[1]			50000 GHz		
	0 dBm				M1								
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π/4DQPSK/HCH/No	-30 dBm			k	M M								
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Нор	50 dBm		M			ма			M3				
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	M1 M2	1	2.4801554 Gł 2.4835 Gł		1.50 c -52.17 c								
	M3	1	2.5 Gł	Ηz	-53.34 dBm								
	M4	1	2.4844675 Gł	Hz	-46.58 d	lBm							
	Date: 5 MAR .	2021 09:56:29	5										
	<u>(</u>												
	Spectrun		0.000		 100 h								
	e Att	Ref Level 25.00 dBm Offset 8.25 dB											
	●1Pk View												
	20 dBm					_	M:	1[1]		2 47	1.74 dBm 71500 GHz		
							M	2[1]		-	53.45 dBm		
	10 dBm			M1			I		1	2.48	35000 GHz		
	REWAL	RANALD	hand	ᢥᠰᠷ᠕	Atus.	-							
	-10 dBm-	AB A A AN	A a ha a ka a	VUVV	A And								
	-20 dBm—	D1 -18.260	dBm										
	-30 dBm												
	00 4211				L,								
π/4DQPSK/HCH/Hop	-40 dBm									M4			
	-50 dBm—					M2		te able beau	M3	₹.	and the set fighter		
						* **	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		parrow	and the point of the	mmmml		
	-60 dBm												
	-70 dBm												
	CF 2.4835	GHz			60	0 pts	 ;			Span	60.0 MHz		
	Marker									· · ·			
	Type Re		X-value		Y-value		Funct	ion	Fund	tion Result			
	M1	1	2.47715 Gł 2.4835 Gł		1.74 c -53.45 c								
	M2	1	2.4033 Gr										
	M3	1	2.5 Gł	Ηz	-50.78 d	lBm							
				Ηz		lBm							
	M3	1	2.5 G 2.504184 G	Ηz	-50.78 d	lBm							



5.9 Spurious RF Conducted Emissions

47 CFR Part 15C Section 15.247 (d)
ANSI C63.10:2013
Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Remark: Offset=cable loss+ attenuation factor.
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Non-hopping transmitting with all kind of modulation and all kind of data type
Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Pass







| 10 dBm M2[1] -41.5 10 dBm M1 4.0046 -10 dBm -10 dBm -10 dBm -20 dBm D1 -19.030 dBm -10 dBm -30 dBm M2 -10 dBm -40 dBm M2 -10 dBm -50 dBm -10 dBm -10 dBm -60 dBm -10 dBm -10 dBm -70 dBm -130 ms VBW 300 kHz Att 30 dB SWT 130 ms VBW 300 kHz Att 30 dB SWT 10 dBm -10 dBm -10 dBm 0 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm | 10 dBm M2[1] -41.57 10 dBm M1 4.80462 0 dBm M1 4.80462 -10 dBm -10 dBm -10 dBm -20 dBm 01 -19.030 dBm -10 dBm -30 dBm M2 -10 dBm -40 dBm M2 -10 dBm -50 dBm M2 -10 dBm -40 dBm M2 -10 dBm -50 dBm M2 -10 dBm -50 dBm -10 dBm -10 dBm -70 dBm -10 dBm | 10 dBm M2[1] 1.57 10 dBm 4.80462 4.80462 0 dBm 1 1 1 -10 dBm 1 1 1 1 -20 dBm 01 -19.030 dBm 1 1 1 -30 dBm 1 1 1 1 1 1 -30 dBm 1 1 1 1 1 1 1 -30 dBm 1 | M2[1] 1.57 10 dBm 4.80462 0 dBm | 10 dBm M2[1] 1.57 10 dBm M1 1.57 10 dBm M1 1.57 -10 dBm -20 dBm 01 -19.030 dBm -30 dBm | 10 dBm M2[1] 31.57 10 dBm M1 | M2[1] 1.57 10 dBm 4.80462 0 dBm 10 dBm -10 dBm 10 dBm -20 dBm 1019.030 dBm -30 dBm | 10 dBm M2[1] 1.57 0 dBm M1 | 10 d8m M2[1] 1.57 0 d8m M1 M2 M2 M2 -10 d8m M2 M2 M2 M2 M2 -20 d8m D1 -19.000 d8m M2 M2 M2 M2 M2 -30 d8m M2 M2 <th>10 dbm M2[1] 15.7 0 dbm M1 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -20 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -30 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -30 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -40 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -50 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0<!--</th--><th></th><th></th><th>1</th><th></th><th></th><th></th><th>1[1]</th><th></th><th></th><th>-0.21 (</th></th> | 10 dbm M2[1] 15.7 0 dbm M1 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -20 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -30 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -30 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -40 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -50 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 -70 dbm Image: Start 1.0 Image: Start 1.0 Image: Start 1.0 </th <th></th> <th></th> <th>1</th> <th></th> <th></th> <th></th> <th>1[1]</th> <th></th> <th></th> <th>-0.21 (</th> | | | 1 | | | | 1[1] | | | -0.21 (|

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| -20 dBm D1 -19.030 dBm | -20 dBm D1 -19.030 dBm
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Ref Lev.
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0 dBm-
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	Spectru	m	m Offset	8.25 dB 👄 F	2BW 100 kH	17				
	🖷 Att	30 d				iz Mode /	Auto FFT			
	●1Pk View				1					1.17.40
	20 dBm					IM	1[1]		2.4408	1.47 dBn 36770 GH:
	10 dBm	+								
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Pref	-20 dBm—		1							
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	-50 dBm—									
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	-70 dBm—	+								
	CF 2.441				800	l nts			Sna	n 2.0 MHz
	Date: 5 MAR	.2021 09:41:	26							
	Date: 5 M AR	.2021 09:41:	m Offset	8.25 dB 👄 🖡 9.7 ms 👄 🗸	RBW 100 kH	lz	Auto Swee	0		
	Date: 5 M AR Spectrui Ref Leve	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /		2		Ū
	Date: 5 M AR Spectrue Ref Leve	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /	Auto Swee	2		50.11 dBn
	Date:5MAR Spectrui Ref Levi ● Att ● 1Pk View	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /				50.11 dBn
	Date:5MAR Spectrui Ref Levi ● Att ● 1Pk View	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /				50.11 dBn
	Date: 5 M AR Spectrui Ref Levi Att 1Pk View 20 dBm-	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /				50.11 dBn
	Date: 5 M AR Spectrui Ref Levi Att 1Pk View 20 dBm-	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /				50.11 dBn
	Date: 5 M AR Spectrum Att Dtk View 20 dBm- 10 dBm- 0 dBm-	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /				50.11 dBn
	Date: 5 M AR Spectrum Aft PIR View 20 dBm- 10 dBm-	.2021 09:41: m el 25.00 dBi 30 d	m Offset		RBW 100 kH	lz Iz Mode /				50.11 dBn 7.190 MH
	Date: 5 M AR Spectrum Att 20 dBm- 10 dBm- -10 dBm-	.2021 09:41: m el 25.00 dBi 30 d	m Offset IB SWT		RBW 100 kH	lz Iz Mode /				50.11 dBn
⊃uw	Date: 5 M AR Spectrum Att Dtk View 20 dBm- 10 dBm- 0 dBm-	.2021 09:41: el 25.00 dB 30 d	m Offset IB SWT		RBW 100 kH	lz Iz Mode /				50.11 dBn
⊃uw	Date: 5 M AR Spectrum Att 10 dBm- 0 dBm- -10 dBm- -20 dBm-	.2021 09:41: el 25.00 dB 30 d	m Offset IB SWT		RBW 100 kH	lz Iz Mode /				50.11 dBn
⊃uw	Date: 5 M AR Spectrum Att 20 dBm- 10 dBm- -10 dBm-	.2021 09:41: el 25.00 dB 30 d	m Offset IB SWT		RBW 100 kH	lz Iz Mode /				50.11 dBn
Puw	Date: 5 M AR Spectrum Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	.2021 09:41: el 25.00 dB 30 d	m Offset IB SWT		RBW 100 kH	lz Iz Mode /				50.11 dBn
Puw	Date: 5 M AR Spectrum Att 10 dBm- 0 dBm- -10 dBm- -20 dBm-	.2021 09:41: el 25.00 dB 30 d	m Offset IB SWT		RBW 100 kH	lz Iz Mode /			88	50.11 dBn
Puw	Date: 5 M AR Spectrum Att Dte: 5 M AR Spectrum Att Dte: 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	2021 09:41: m el 25.00 dBi 30 d 	m Offset B SWT	9.7 ms • \	RBW 100 kH	iz iz Mode / M			88	50.11 dBn 7.190 MH
⊃uw	Date: 5 M AR Spectrum Att Dte: 5 M AR Spectrum Att Dte: 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	2021 09:41: m el 25.00 dBi 30 d 	m Offset B SWT	9.7 ms • \	RBW 100 kH	iz iz Mode / M			88	50.11 dBn 7.190 MH
⊃uw	Date: 5 M AR Spectrum Att Dte: 5 M AR Spectrum Att Dte: 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	2021 09:41: m el 25.00 dBi 30 d 	m Offset B SWT		RBW 100 kH	iz iz Mode / M			88	50.11 dBn 7.190 MH:
Puw	Date: 5 M AR Spectrum Ref Leve Att 9 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	2021 09:41: m el 25.00 dBi 30 d 	m Offset B SWT	9.7 ms • \	RBW 100 kH	iz iz Mode / M			88	50.11 dBn 7.190 MH
⊃uw	Date: 5 M AR Spectrum Ref Leve Att 9 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	2021 09:41: m el 25.00 dBi 30 d 	m Offset B SWT	9.7 ms • \	RBW 100 kH	iz iz Mode / M			88	50.11 dBn 7.190 MH:



●1Pk View					M	1[1]			0.79 d
20 dBm					м	2[1]			.44150 (-44.90 d
10 dBm						+			.88162
10 0.0111	M1								
0 dBm	Ť								
-10 dBm—									
-20 dBm—	D1 -18.530) dBm							
-30 dBm—									
-40 dBm—			M2						
-50 dBm-			dillo de la dinati	الاقترار والمراجع المراجع		h and D		ula Italia	
legent distant legent	المراجع	a terreta de la constante de la La constante de la constante de	the the solution				المربيط <mark>المطابق مراجع الماري</mark> والإستاد الأستاذ المحمد ب		
-60 dBm—									
-70 dBm—									
Start 1.0 Date: 5 M AR	2021 09:41:5	n Offset i		800: 800: RBW 100 kH VBW 300 kH	lz Iz Mode)		
Start 1.0 Date: 5 M AR Spectrue Ref Leve	2021 09:41:5 n 1 25.00 dBn	n Offset i		RBW 100 k⊦	lz Iz Mode	Auto Sweep)		-46.39 (
Start 1.0 Date: 5 M AR Spectrun Ref Leve Att 1Pk View	2021 09:41:5 n 1 25.00 dBn	n Offset i		RBW 100 k⊦	lz Iz Mode		, , 		-46.39 (
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Start 1.0 Date: 5 MAR Spectrui Ref Leve Att 1Pk View 20 dBm 10 dBm	2021 09:41:5 n 1 25.00 dBn	n Offset i		RBW 100 k⊦	lz Iz Mode				-46.39 (
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Start 1.0 Date: 5 MAR Spectrum Att 10 dBm- 0 dBm- -10 dBm-	2021 09:41:5 n 1 25.00 dBn	n Offset 1 3 SWT		RBW 100 k⊦	lz Iz Mode				-46.39 (
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Start 1.0 Date: 5 M AR Spectruit Ref Leva • Att • 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm	2021 09:41:5 n el 25.00 dBn 30 dE	n Offset 1 3 SWT		RBW 100 k⊦	iz Mode .				-46.39 .88430



		<u> </u>	FSK_HCH_	Graphs				G
	Spectrum Ref Level 25.0		8.25 dB 👄 RBW					
	Att 1Pk View	30 dB SWT	19 µs 🖷 VBW	/ 300 kHz Mo	de Auto FFT			
					M1[1]			1.67 dBn
	20 dBm					1	2.4798	37520 GH:
	10 d0m							
	10 dBm		MI					
	0 dBm		M1	·				
	-10 dBm							
Drof	-20 dBm-01	18.330 dBm						
Pref								
	-30 dBm							
	-40 dBm							
	10 dbiii							
	-50 dBm		_					
	-60 dBm							
	-70 dBm							
	CF 2.48 GHz		- 1	8001 pts		1	Spa	n 2.0 MHz
	Date: 5 M AR .2021 (9:45:24						
	Spectrum Ref Level 25.0	DO dBm Offset	8.25 dB 🖷 RBW					
	Spectrum Ref Level 25.0 Att]		/ 100 kHz / 300 kHz Mo	de Auto Swee	p		
	Spectrum Ref Level 25.0 Att IPk View	DO dBm Offset			de Auto Swee	p		50.03 dBn
	Spectrum Ref Level 25.0 Att	DO dBm Offset				p		
	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm	DO dBm Offset				p		50.03 dBn
	Spectrum Ref Level 25.0 Att IPk View	DO dBm Offset				p		50.03 dBn
	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm	DO dBm Offset				p		50.03 dBn
	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm	DO dBm Offset				P		50.03 dBn
	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm	DO dBm Offset				p		50.03 dBn
	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	0 dBm Offset 30 dB SWT				p		50.03 dBn
Duw	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm 0 dBm	DO dBm Offset				p		50.03 dBn
⊃uw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	0 dBm Offset 30 dB SWT				p		50.03 dBn
2uw	Spectrum Ref Level 25.0 Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	0 dBm Offset 30 dB SWT				p		50.03 dBn
⊃uw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	0 dBm Offset 30 dB SWT				p		50.03 dBn
⊃uw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	0 dBm Offset 30 dB SWT				p		50.03 dBn
Puw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	0 dBm Offset 30 dB SWT	9.7 ms • VBW	/ 300 kHz Mo	M1[1]			50.03 dBn 3.550 MH:
Puw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	0 dBm Offset 30 dB SWT		/ 300 kHz Mo	M1[1]			50.03 dBn 3.550 MH:
Puw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	0 dBm Offset 30 dB SWT	9.7 ms • VBW	/ 300 kHz Mo	M1[1]			50.03 dBn 3.550 MH:
Þuw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm	0 dBm Offset 30 dB SWT	9.7 ms • VBW	/ 300 kHz Mo	M1[1]			50.03 dBn 3.550 MH:
⊃uw	Spectrum Ref Level 25.0 Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	0 dBm Offset 30 dB SWT	9.7 ms • VBW	/ 300 kHz Mo	M1[1]			50.03 dBn 3.550 MH:



●1Pk View					M	1[1]			0.42 d
20 dBm					м	2[1]			48000 (44.75 d
10 dBm						2[1]			96000
10 dbiii	641								
0 dBm	M1								
-10 dBm—									
	D1 -18.330	L dB m							
-20 dBm—	01 -18.330								
-30 dBm—									
-40 dBm—									
-40 UBIII—			M2		con t				
-50 dBm-	n praci prakladi	A STATE OF THE STATE	the state of the			ad Buildedil Louis (ال يود المسالم بين ال	ر. المرافعة ووالعالية مريدة	Phalippers.
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-60 dBm—									
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Start 1.0 Date: 5 M AR Spectrum Ref Leve	2021 09:45:5	n Offset 8		8001 8001 RBW 100 kH VBW 300 kH	Iz	I Auto Sweep	1	Stop	12.0 0
Start 1.0 Date: 5 M AR Spectrur Ref Leve	2021 09:45:5 n 11 25.00 dBm	n Offset 8		RBW 100 k⊦	iz iz Mode .		1		12.0 G
Start 1.0 Date: 5 M AR Spectrum Ref Leve	2021 09:45:5 n 11 25.00 dBm	n Offset 8		RBW 100 k⊦	iz iz Mode .	Auto Sweep	1		46.69 c
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Start 1.0 Date: 5 M AR Spectrur Ref Leve Att 1Pk View	2021 09:45:5 n 11 25.00 dBm	n Offset 8		RBW 100 k⊦	iz iz Mode .				46.69
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Start 1.0 Date: 5 MAR Spectrum Ref Leve Att 1Pk View 20 dBm 10 dBm 0 dBm	2021 09:45:50 n 30 dE	n Offset 8 3 SWT		RBW 100 k⊦	iz iz Mode .				46.69
Start 1.0 Date: 5 MAR Spectrum Ref Leve Att 10 dBm 10 dBm -10 dBm	2021 09:45:50 n 30 dE	n Offset 8 3 SWT		RBW 100 k⊦	iz iz Mode .				46.69 (
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Start 1.0 Date: 5 MAR Spectrum Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm	2021 09:45:50 n 30 dE	n Offset 8 3 SWT	130 ms	RBW 100 k⊦	iz iz Mode .				46.69 c
Start 1.0 Date: 5 M AR Spectrur Ref Leva Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	2021 09:45:50 n 30 dE	B Offset 8 SWT	130 ms	RBW 100 k⊦	iz iz Mode .				46.69 c 75080
Start 1.0 Date : 5 M AR Spectrui Ref Leva Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2021 09:45:50 n 30 dE	B Offset 8 SWT	130 ms	RBW 100 k⊦	iz iz Mode .	1[1]			46.69 (
Start 1.0 Date: 5 M AR Spectrum Ref Leva Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2021 09:45:50 n 30 dE	B Offset 8 SWT	130 ms	RBW 100 k⊦	iz iz Mode .	1[1]			46.69 (
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			π/4D0	JPON_L	CH_Gra	phs				
	Spectrur									
	🖷 Att	el 25.00 dBm 30 dB		3.43 dB 🥌 R 19 μs 🛑 V		z z Mode A	Auto FFT			
	●1Pk View					M	1[1]			0.90 dBm
	20 dBm								2.4018	39020 GHz
	10 dBm									
	0 dBm				M1	~~~~				
	10 d0m		\sim				\			
	-10 dBm—									
Pref	-20 dBm	D1 -19.100	dBm=====							
-	-30 dBm-									
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	-50 dBm									
	-60 dBm									
	-70 dBm									
	-70 dBm	GHz			8001	. pts			Spa	n 2.0 MHz
			2		8001	. pts			Spa	n 2.0 MHz
	CF 2.402	2021 09:49:2	2		8001	. pts			Spa	n 2.0 MHz
	CF 2.402 Date: 5 M AR . Spectrur Ref Leve Att	2021 09:49:2	n Offset 8	3.43 dB ● R 9.7 ms ● V	BW 100 kH	z	Auto Sweep		Spa	
	CF 2.402 (Date: 5 M AR . Spectrum Ref Leve Att IPk View	2021 09:49:2 n 1 25.00 dBm	n Offset 8		BW 100 kH	z z Mode 4	Auto Sweep			
	CF 2.402 Date: 5 M AR . Spectrur Ref Leve Att	2021 09:49:2 n 1 25.00 dBm	n Offset 8		BW 100 kH	z z Mode 4				
	CF 2.402 (Date: 5 M AR . Spectrum Ref Leve Att IPk View	2021 09:49:2 n 1 25.00 dBm	n Offset 8		BW 100 kH	z z Mode 4				₩ 49.68 dBm
	CF 2.402 C Date: 5 M AR . Spectrur Ref Leve Att 1 Pk View 20 dBm-	2021 09:49:2 n 1 25.00 dBm	n Offset 8		BW 100 kH	z z Mode 4				₩ 49.68 dBm
	CF 2.402 C Date: 5 M AR . Spectrur Ref Leve Att 10 dBm- 0 dBm-	2021 09:49:2 n 1 25.00 dBm	n Offset 8		BW 100 kH	z z Mode 4				₩ 49.68 dBm
	CF 2.402 0 Date: 5 M AR . Spectrum Ref Leve Att 10 dBm- 10 dBm- -10 dBm-	2021 09:49:2 n 30 dBm 30 dE	n Offset 8 3 SWT		BW 100 kH	z z Mode 4				₩ 49.68 dBm
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Puw	CF 2.402 0 Date: 5 M AR . Spectrum Ref Leve Att 10 dBm- 10 dBm- -10 dBm-	2021 09:49:2 n 30 dBm 30 dE	n Offset 8 3 SWT		BW 100 kH	z z Mode 4				₩ 49.68 dBm
Puw	CF 2.402 C Date: 5 M AR . Spectrur Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2021 09:49:2 n 30 dBm 30 dE	n Offset 8 3 SWT		BW 100 kH	z z Mode 4				₩ 49.68 dBm
Puw	CF 2.402 0 Date: 5 M AR . Spectrur Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2021 09:49:2 n 30 dB 30 dE	dBm	9.7 ms 🖷 V	BW 100 kH	z Mode 4	1[1]		9	49.68 dBm 66.900 MHz
Puw	CF 2.402 0 Date: 5 M AR . Spectrur Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2021 09:49:2 n 30 dB 30 dE	dBm	9.7 ms 🖷 V	BW 100 kH	z Mode 4	1[1]		9	49.68 dBm 66.900 MHz
Puw	CF 2.402 0 Date: 5 M AR . Spectrur Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2021 09:49:2 n 30 dBm 30 dE	dBm	9.7 ms 🖷 V	BW 100 kH	z Mode 4	1[1]		9	49.68 dBm 66.900 MHz
Puw	CF 2.402 0 Date: 5 M AR . Spectrur Ref Leve Att 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	2021 09:49:2 n 30 dB 30 dE	dBm	9.7 ms 🖷 V	BW 100 kH	z Mode 4	1[1]		9	49.68 dBm 66.900 MHz



Ref Leve			t 8.43 dB 👄						
Att Ink View	30	db SWT	110 ms 👄	VBW 300 kH	z Mode	Auto Sweep)		
●1Pk View					M	1[1]			-46.03 d
20 dBm						***1			62100
					M	2[1]			-46.03 d
10 dBm							1		62100
0 dBm									+
-10 dBm									-
-20 dBm	:D1 -19.1	100 dBm====							-
-30 dBm									
-40 dBm—					M2				1
					ulicadad				
-50 dBm	lite must pro-	and the second state of th	and a product product of	the set of the set of the set of the	and all others will be a sub-	and the second	مريو ماليه الماري	The state of the second se	uru nirih
The Designation of the Party of	and the second secon		- which is a		The street	, or interaction (14)	d Dhankealthana	palaten and an a palate	an selection of the last
-60 dBm									
-70 dBm									
Start 1.0 G Date: 5 M AR .2 Spectrum Ref Level Att	021 09:4		t 8.43 dB 🖷 130 ms 🖷	800: RBW 100 kH VBW 300 kH	Iz	Auto Sweep)	Sto	p 12.0 (
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode))		
Start 1.0 G Date: 5 M AR .2 Spectrum Ref Level Att	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode	Auto Sweep 1[1])		p 12.0 G
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View 20 dBm	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode		, , ,		-46.40 (
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode				-46.40 c
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 10 dBm 10 dBm	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode				-46.40 (
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View 20 dBm	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode				-46.40 (
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode				-46.40 (
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 10 dBm 10 dBm	021 09:4	dBm Offse		RBW 100 kH	lz Iz Mode				-46.40 c
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	1 25.00 c 30	dBm Offse 0 dB SWT		RBW 100 kH	lz Iz Mode				-46.40 c
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm	1 25.00 c 30	dBm Offse 0 dB SWT		RBW 100 kH	lz Iz Mode				-46.40 c
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 10 dBm 10 dBm -10 dBm -20 dBm	1 25.00 c 30	dBm Offse 0 dB SWT		RBW 100 kH	lz Iz Mode				-46.40 (
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	1 25.00 c 30	dBm Offse 0 dB SWT		RBW 100 kH	lz Iz Mode				-46.40 c
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 10 dBm 10 dBm -10 dBm -20 dBm	1 25.00 c 30	dBm Offse 0 dB SWT		RBW 100 kH	lz Iz Mode				-46.40 c
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 25.00 c 30	dBm Offse dB SWT	130 ms	RBW 100 kH	lz Iz Mode				-46.40 (
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Start 1.0 G Date: 5 M AR 2 Spectrum Ref Level Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -60 dBm	2021 09:4	dBm Offse dB SWT	130 ms	RBW 100 kH	IZ IZ Mode . M				-46.40 (



	Spectrun Ref Leve	l 25.00 di		8.25 dB 👄 F						[Ⅲ ▽
	Att 1Pk View	30	dB SWT	19 µs 👄	/BW 300 kH	z Mode	Auto FFT			
	-					M	1[1]			1.41 dBn
	20 dBm						I	I	2.4408	39770 GH:
	10 - 10									
	10 dBm									
	0 dBm				M1					
			-				<u> </u>			
	-10 dBm							\rightarrow		
									\land	
Drof	-20 dBm	D1 -18.5	90 dBm							
Pref										
	-30 dBm									
	-40 dBm									
	-40 0811									
	-50 dBm									
	-60 dBm									
	-70 dBm									
	CF 2.441 (GHz			8001	l pts			Spa	n 2.0 MHz
	Date: 5 M AR .		:51							Ē
	Spectrun Ref Leve Att	ı _	Bm Offset	8.25 dB 👄 F 9.7 ms 👄 V	RBW 100 kH /BW 300 kH		Auto Swee	p		ſ⊞
	Spectrun Ref Leve	n I 25.00 di	Bm Offset			z Mode		p		
	Spectrun Ref Leve Att	n I 25.00 di	Bm Offset			z Mode	Auto Swee	p		-50.26 dBn
	Spectrun Ref Leve Att IPk View 20 dBm-	n I 25.00 di	Bm Offset			z Mode		p		-50.26 dBn
	Spectrun Ref Leve Att IPk View	n I 25.00 di	Bm Offset			z Mode		p		-50.26 dBn
	Spectrun Ref Leve Att IPk View 20 dBm	n I 25.00 di	Bm Offset			z Mode		p		-50.26 dBn
	Spectrun Ref Leve Att IPk View 20 dBm-	n I 25.00 di	Bm Offset			z Mode		p		-50.26 dBn
	Spectrun Ref Leve Att IPk View 20 dBm	n I 25.00 di	Bm Offset			z Mode		p		-50.26 dBn
	Spectrun Ref Leve Att IPk View 20 dBm	n I 25.00 dl 30	Bm Offset dB SWT			z Mode		p		-50.26 dBn
	Spectrun Ref Leve Att IPk View 20 dBm	n I 25.00 di	Bm Offset dB SWT			z Mode				-50.26 dBn
Puw	Spectrun Ref Leve Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	n I 25.00 dl 30	Bm Offset dB SWT			z Mode		p		-50.26 dBn
Puw	Spectrun Ref Leve Att 1Pk View 20 dBm	n I 25.00 dl 30	Bm Offset dB SWT			z Mode				-50.26 dBn
Puw	Spectrun Ref Leve Att IPk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	n I 25.00 dl 30	Bm Offset dB SWT			z Mode		p		-50.26 dBn
Puw	Spectrun Ref Leve Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	n I 25.00 dl 30	Bm Offset dB SWT			2 Mode /		p		-50.26 dBn
Puw	Spectrun Ref Leve Att IPk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	n30	Bm Offset dB SWT	9.7 ms	/BW 300 kH	2 Mode /	1[1]		5	50.26 dBn 96.110 MH
Puw	Spectrun Ref Leve Att IPk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	n30	Bm Offset dB SWT	9.7 ms	/BW 300 kH	2 Mode /	1[1]		5	50.26 dBn 96.110 MH
Puw	Spectrun Ref Leve Att IPk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	n30	Bm Offset dB SWT	9.7 ms	/BW 300 kH	2 Mode /	1[1]		5	-50.26 dBn 96.110 MH:
Puw	Spectrun Ref Leve Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n30	Bm Offset dB SWT	9.7 ms	/BW 300 kH	2 Mode /	1[1]		5	-50.26 dBn 96.110 MH:
⊃uw	Spectrun Ref Leve Att IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	n30	Bm Offset dB SWT	9.7 ms	/BW 300 kH	2 Mode /	1[1]		5	50.26 dBn 26.110 MH:



●1Pk View					M	1[1]			-2.78 d
20 dBm					M	12[1]			.44150 (·45.36 d
10 dBm							1		40238
10 0.0111									
0 dBm	M1								
10 40									
-10 dBm									
-20 dBm	D1 -18.590	dBm							
-30 dBm									
-40 dBm									<u> </u>
				M2					
-50 dBm	aller, skin helle				The state of the state of the	a j _o n the fill the second of		and the second second	in a line
փգրություն -60 dBm——	Metallocompleted	a an	distriction of the		WEAKAN		the statistic statistics	a spiriture at a second	a sha biyanî di ka
-00 0011									
		1							
-70 dBm									
Start 1.0 G	:021 09:53:2	n Offset		8001 8001 88W 100 kH 98W 300 kH	z	Auto Swee	2	Stop	0 12.0 G
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 1Pk View	:021 09:53:2	n Offset		RBW 100 kH	z z Mode	Auto Swee	2		-45.95 d
Start 1.0 G Date: 5 M AR 2 Spectrum Ref Leve Att	:021 09:53:2	n Offset		RBW 100 kH	z z Mode		2		-45.95 d
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 1Pk View	:021 09:53:2	n Offset		RBW 100 kH	z z Mode		2		-45.95 d
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att P1Pk View 20 dBm- 10 dBm-	:021 09:53:2	n Offset		RBW 100 kH	z z Mode		2		-45.95 c
Start 1.0 C Date: 5 M AR 2 Spectrun Ref Leve Att 1Pk View 20 dBm-	:021 09:53:2	n Offset		RBW 100 kH	z z Mode				-45.95 c
Start 1.0 C Date: 5 M AR 2 Spectrun Ref Leve Att 10 dBm- 10 dBm-	:021 09:53:2	n Offset		RBW 100 kH	z z Mode				-45.95 d
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Start 1.0 C Date: 5 M AR 2 Spectrun Ref Leve Att 1Pk View 20 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z z Mode				-45.95 d
Start 1.0 C Date: 5 M AR .2 Spectrum Ref Leve Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z z Mode				-45.95 d
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z z Mode				-45.95 d
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z z Mode				-45.95 d
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z Mode	M1		19	
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z z Mode	M1			-45.95 d
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z Mode	M1		19	-45.95 c
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 1 Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z Mode	M1		19	-45.95 (
Start 1.0 C Date: 5 M AR 2 Spectrum Ref Leve Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 25.00 dBn 30 db	n Offset 3 SWT		RBW 100 kH	z Mode	M1		19	-45.95 (



		el 25.00 dB		8.25 dB 👄 F						
	Att	30 c	IB SWT	19 µs 😑 🕻	/BW 300 kH	z Mode /	Auto FFT			
	UPK VIEW					M	1[1]			1.61 dBm
	20 dBm								2.4798	38270 GHz
	10 dBm									
					M1					
	0 dBm							-		
	-10 dBm—									
	-10 dbiii	1	1							
	-20 dBm-	D1 -18.39	0 dBm							
Pref										
	-30 dBm-									
										\sim
	-40 dBm—									
	-50 dBm—									
	-60 dBm—									
	-70 dBm—									
	CF 2.48 G	Hz			8001	l pts			Spa	n 2.0 MHz
	Date: 5.MAR	.2021 09:56:	56							
	Date: 5 M AR		56							
	Spectrue Ref Leve	m el 25.00 dB	m Offset	8.25 dB 👄 F 9.7 ms 👄 🕽			auto Sween			
	Spectru	m el 25.00 dB 30 d	m Offset			lz Iz Mode /	Auto Sweep	1		V
	Spectrui Ref Levi Att 1Pk View	m el 25.00 dB 30 d	m Offset			z Mode /	Auto Sweep			-49.69 dBm
	Spectrum Ref Leve Att	m el 25.00 dB 30 d	m Offset			z Mode /				
	Spectrui Ref Levi Att 1Pk View	m el 25.00 dB 30 d	m Offset			z Mode /				-49.69 dBm
	Spectrum Ref Levi Att 1Pk View 20 dBm-	m el 25.00 dB 30 d	m Offset			z Mode /				-49.69 dBm
	Spectrum Ref Levi Att 1Pk View 20 dBm-	m el 25.00 dB 30 d	m Offset			z Mode /				-49.69 dBm
	Spectrum Ref Levo Att 1Pk View 20 dBm- 10 dBm-	m el 25.00 dB 30 d	m Offset			z Mode /				-49.69 dBm
	Spectrum Ref Levo Att 1Pk View 20 dBm- 10 dBm-	m el 25.00 dB 30 d	m Offset			z Mode /				-49.69 dBm
	Spectrum Ref Levu Att 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm-	m	m Offset iB SWT			z Mode /				-49.69 dBm
Duw	Spectrum Ref Levi Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	m el 25.00 dB 30 d	m Offset iB SWT			z Mode /				-49.69 dBm
Puw	Spectrum Ref Levu Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	m Offset iB SWT			z Mode /				-49.69 dBm
Puw	Spectrum Ref Levu Att 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm-	m	m Offset iB SWT			z Mode /				-49.69 dBm
Puw	Spectrum Ref Levi Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm	m	m Offset iB SWT			z Mode /				-49.69 dBm
Puw	Spectrum Ref Levu Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	m Offset iB SWT			z Mode /				49.69 dBm 88.420 MHz
Puw	Spectrum Ref Levo Att IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm	m	m Offset B SWT	9.7 ms • V		IZ Mode /	1[1]		98	49.69 dBm 88.420 MHz
Puw	Spectrum Ref Levo Att IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm	m	m Offset B SWT	9.7 ms • V		IZ Mode /	1[1]		98	49.69 dBm 88.420 MHz
Puw	Spectrum Ref Levo Att IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm	m	m Offset iB SWT	9.7 ms • V		IZ Mode /	1[1]		98	49.69 dBm 88.420 MHz
Puw	Spectrum Ref Levo Att IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	m	m Offset B SWT	9.7 ms • V		IZ Mode /	1[1]		98	49.69 dBm 88.420 MHz
Puw	Spectrum Ref Levo Att IPk View 20 dBm 10 dBm 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	m	m Offset B SWT	9.7 ms • V		IZ Mode /	1[1]		98	49.69 dBm 88.420 MHz



● 1Pk View 20 dBm					M	1[1]		_	-4.38 d
20 aBm					м	2[1]			.48000 -44.95 (
10 dBm							1		.86988
0 dBm	MI								
	I T								
-10 dBm—									
-20 dBm—	D1 -18.390) dBm							
-30 dBm—									
10.10									
-40 dBm—					M2				
-50 dBm	1 1		-			a data da a sa sa sa	1.0 skeat same	n kaandek elektra.	a la la sala sala sa
		and the second	i tibu na gaith in	a fast a fair fair fair fair fair fair fair fa	and the second		p <mark>alah Manin Manina J</mark> i		and the second
-60 dBm									
	1								
							_		-
-70 dBm—									
Start 1.0 Date: 5 M AR	2021 09:57:2	n Offset	8.25 dB • F 130 ms • V		lz Iz Mode	Auto Sweep	2		
Start 1.0 Date: 5 M AR . Spectrur Ref Leve Att IPk View	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode	Auto Swee	2		-46.62 (
Start 1.0 Date: 5 M AR . Spectrur Ref Leve	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode		2 2		-46.62 c
Start 1.0 Date: 5 M AR . Spectrur Ref Leve Att IPk View	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm- 10 dBm-	2021 09:57:2	n Offset		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm 10 dBm 0 dBm	2021 09:57:2	n Offset : B SWT		RBW 100 k⊢	lz Iz Mode				-46.62
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	2021 09:57:2 n 1 25.00 dBn 30 di	n Offset : B SWT		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm-	2021 09:57:2 n 1 25.00 dBn 30 di	n Offset : B SWT		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	2021 09:57:2 n 1 25.00 dBn 30 di	n Offset : B SWT		RBW 100 k⊢	lz Iz Mode				-46.62
Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	2021 09:57:2 n 1 25.00 dBn 30 di	n Offset : B SWT		RBW 100 k⊢	lz Iz Mode				-46.62 (
Start 1.0 Date: 5 M AR . Spectrur Ref Leve Att 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	2021 09:57:2 n 1 25.00 dBn 30 di	n Offset : B SWT		RBW 100 k⊢	lz Iz Mode				-46.62 (
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Start 1.0 0 Date: 5 M AR . Spectrur Ref Leve Att 10 dBm 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm	2021 09:57:2 n 30 di	n Offset : B SWT	130 ms	RBW 100 k⊢	iz Mode				-46.62



Remark:

Pre test 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



5.10Other requirements Frequency Hopping Spread Spectrum System

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:							
rate from a Pseudorandom on the average by each tran	nnel frequencies that are selected at the system hopping ordered list of hopping frequencies. Each frequency must be used equally smitter. The system receivers shall have input bandwidths that match the s of their corresponding transmitters and shall shift frequencies in asmitted signals.							
channels during each transr receiver, must be designed transmitter be presented wit employing short transmissio	spectrum systems are not required to employ all available hopping nission. However, the system, consisting of both the transmitter and the to comply with all of the regulations in this section should the h a continuous data (or information) stream. In addition, a system n bursts must comply with the definition of a frequency hopping system missions over the minimum number of hopping channels specified in							
the system to recognize othe independently chooses and The coordination of frequence	The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is							
Compliance for section 15	.247(a)(1)							
stage shift register whose 5t outputs are added in a modu	ulo-two addition stage. And the result is fed back to the input of the first with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized ages: 9 sequence: 2 ⁹ -1 = 511 bits							
Linear Feedback S	hift Register for Generation of the PRBS sequence							
An example of Pseudorando	m Frequency Hopping Sequence as follow: 7 64 8 73 16 75 1							
According to Bluetooth Cor bandwidths that match the	y on the average by each transmitter. e Specification, Bluetooth receivers are designed to have input and IF hopping channel bandwidths of any Bluetooth transmitters and shift on with the transmitted signals.							
Compliance for section 15.247(g)								
pseudorandom hopping free	re Specification, the Bluetooth system transmits the packet with the quency with a continuous data and the short burst transmission from the ansmitted under the frequency hopping system with the pseudorandom							



Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

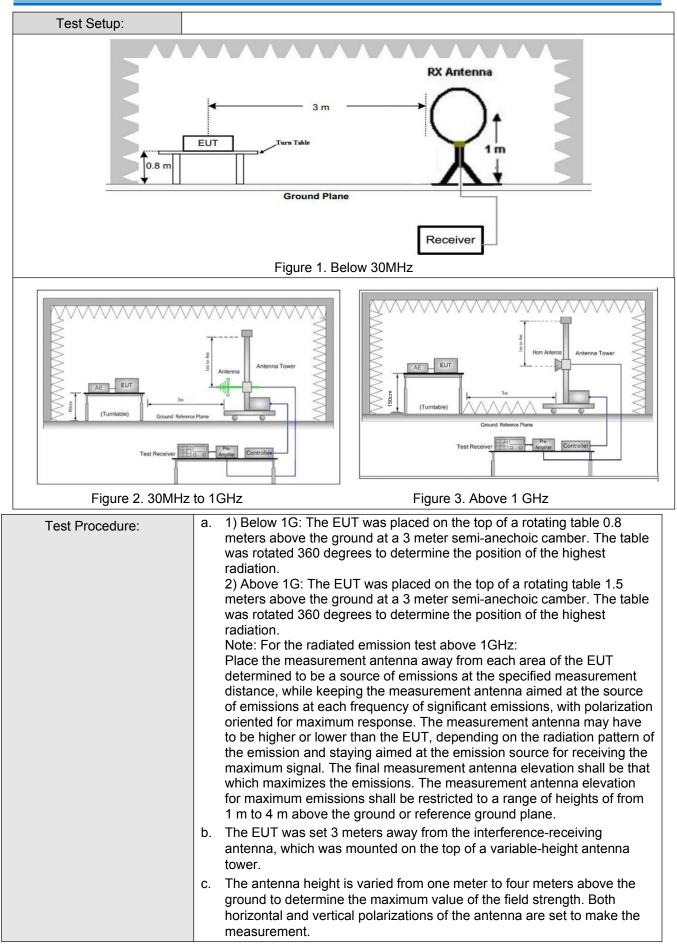


5.11 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205								
Test Method:	ANSI C63.10: 2013								
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	oic Cham	ber)				
Receiver Setup:	Frequency	Frequency Detector RBW VBW Remark							
	0.009MHz-0.090MH	z	Peak	10kHz	z 30kHz	Peak	1		
	0.009MHz-0.090MHz		Average	10kHz	z 30kHz	Average	1		
	0.090MHz-0.110MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak	1		
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak	1		
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average	1		
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak]		
	30MHz-1GHz		Peak	100 kH	lz 300kHz	Peak]		
	Above 1GHz		Peak	1MHz	: 3MHz	Peak			
			Peak	1MHz	z 10Hz	Average			
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (n			
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30			
	1.705MHz-30MHz		30	-	-	30			
	30MHz-88MHz		100	40.0	Quasi-peak	3			
	88MHz-216MHz		150	43.5	Quasi-peak	3			
	216MHz-960MHz		200	46.0	Quasi-peak	3			
	960MHz-1GHz		500	54.0	Quasi-peak	3			
	Above 1GHz		500	54.0	Average	3			
Note: 15.35(b), Unless otherwise specified, the limit on peak r emissions is 20dB above the maximum permitted average applicable to the equipment under test. This peak limit a peak emission level radiated by the device.									





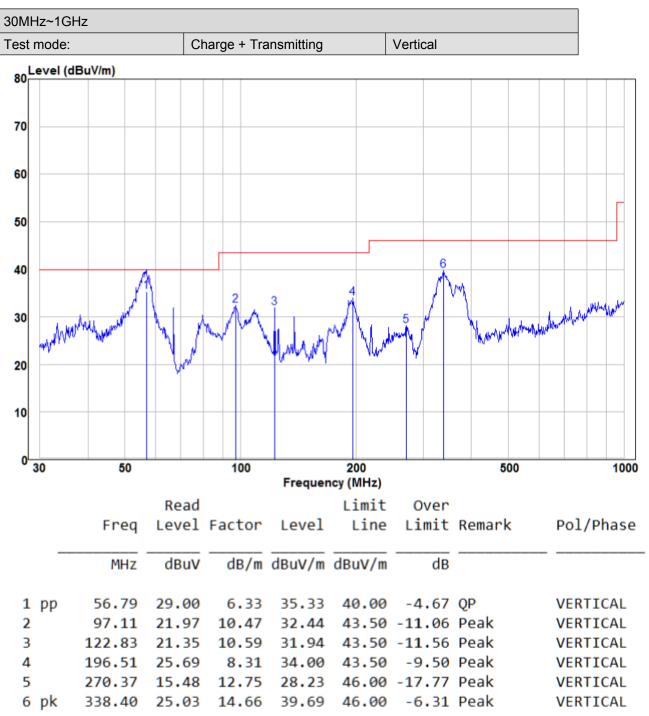




	 d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz), the middle channel (2441MHz), the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass



5.11.1 Radiated Emission below 1GHz



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

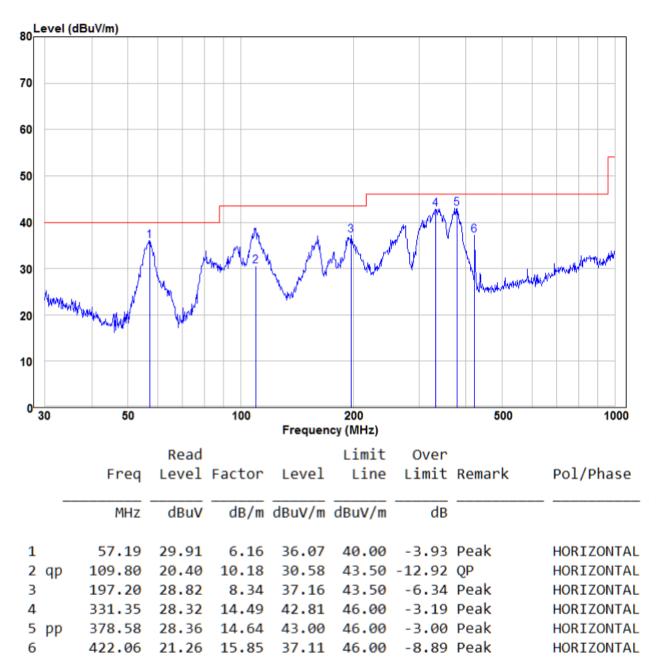
Level = Read Level + Factor,

Over Limit=Level-Limit Line.









Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



5.11.2 Transmitter Emission above 1GHz

Worse case	mode:	GFSK(DH	5)	Test chann	el:	Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.52	-9.2	45.32	74	-28.68	Peak	н
2400	57.11	-9.39	47.72	74	-26.28	Peak	н
4804	53.42	-4.33	49.09	74	-24.91	Peak	Н
7206	50.90	1.01	51.91	74	-22.09	Peak	Н
2390	53.90	-9.2	44.70	74	-29.30	Peak	v
2400	55.41	-9.39	46.02	74	-27.98	Peak	V
4804	52.62	-4.33	48.29	74	-25.71	Peak	V
7206	51.20	1.01	52.21	74	-21.79	Peak	V

Worse case mode:		GFSK(DH5)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	50.43	-4.11	46.32	74	-27.68	peak	н
7323	49.83	1.51	51.34	74	-22.66	peak	н
4882	52.53	-4.11	48.42	74	-25.58	peak	V
7323	50.35	1.51	51.86	74	-22.14	peak	V

Worse case mode:		GFSK(DH5)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.28	-9.29	46.99	74	-27.01	Peak	н
4960	51.44	-4.04	47.40	74	-26.60	Peak	н
7440	49.24	1.57	50.81	74	-23.19	Peak	Н
2483.5	55.00	-9.29	45.71	74	-28.29	Peak	v
4960	49.59	-4.04	45.55	74	-28.45	Peak	V
7440	48.32	1.57	49.89	74	-24.11	Peak	V



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Worse case mode:		π/4DQPSk	π/4DQPSK(2DH5)		Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	56.00	-9.2	46.80	74	-27.20	Peak	н
2400	54.72	-9.39	45.33	74	-28.67	Peak	н
4804	53.25	-4.33	48.92	74	-25.08	Peak	н
7206	49.48	1.01	50.49	74	-23.51	Peak	Н
2390	54.09	-9.2	44.89	74	-29.11	Peak	v
2400	55.21	-9.39	45.82	74	-28.18	Peak	V
4804	52.54	-4.33	48.21	74	-25.79	Peak	V
7206	51.24	1.01	52.25	74	-21.75	Peak	V

Worse case mode:		π/4DQPSK(2DH5)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	50.58	-4.11	46.47	74	-27.53	peak	н
7323	49.90	1.51	51.41	74	-22.59	peak	н
4882	53.76	-4.11	49.65	74	-24.35	peak	V
7323	49.81	1.51	51.32	74	-22.68	peak	V

Worse case	orse case mode:		π/4DQPSK(2DH5)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V	
2483.5	55.58	-9.29	46.29	74	-27.71	Peak	н	
4960	52.99	-4.04	48.95	74	-25.05	Peak	н	
7440	50.23	1.57	51.80	74	-22.20	Peak	н	
2483.5	55.63	-9.29	46.34	74	-27.66	Peak	v	
4960	50.20	-4.04	46.16	74	-27.84	Peak	V	
7440	49.27	1.57	50.84	74	-23.16	Peak	V	

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

The End