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Report Template Version: V05 Report Template Revision Date: 2021-11-03

# **Test Report**

Report No. : Applicant: Address of Applicant: Equipment Under Test (E	CQASZ20220600967E-01 THINKCAR TECH CO., LTD. 2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen <b>UT):</b>
Product:	TPMS Activation and Diagnostic Tool
Model No.:	THINKCAR TPMS 200, TKTG3, TKTG1, TKTT1, TKTB6, THINKTPMS G2, THINKTPMS G1, Thinkcar T-Wand 200
Test Model No.:	TKTG3
Brand Name:	THINKCAR, XHINKCAR, MUCAR
FCC ID:	2AUARTPMSG2
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2022-06-09
Date of Test:	2022-06-09 to 2022-11-08
Date of Issue:	2022-11-14
Test Result :	PASS*

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

lewis 2h0U (Lewis Zhou) Tested By: Timo Loj Reviewed By: ( Timo Lei ) uns Approved By:

(Jack Ai)



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
CQASZ20220600967E-01	Rev.01	Initial report	2022-11-14



# 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)	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	ANSI C63.10 (2013)	PASS	
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:	THINKCAR TECH CO., LTD.
Address of Applicant:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Manufacturer:	THINKCAR TECH CO., LTD.
Address of Manufacturer:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Factory:	THINKCAR TECH CO., LTD.
Address of Factory:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen

# 4.2 General Description of EUT

Product Name:	TPMS Activation and Diagnostic Tool		
Model No.:	THINKCAR TPMS 200, TKTG3, TKTG1, TKTT1, TKTB6, THINKTPMS G2, THINKTPMS G1, Thinkcar T-Wand 200		
Test Model No.:	TKTG3		
Trade Mark:	THINKCAR, XHINKCAR, MUCAR		
Software Version:	V1.23.006		
Hardware Version:	V1.00.000		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.0		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Transfer Rate:	1Mbps/2Mbps/3Mbps		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Product Type:	□ Mobile		
Test Software of EUT:	BT98X FCC Tool V1.2		
Antenna Type:	PCB antenna		
Antenna Gain:	2dBi		
Power Supply:	Li-ion battery: DC 3.8V 2600mAh, Charge by DC 5V for adapter		



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 Set	tings:			
Mode:	<ul> <li>Special software is used.</li> <li>Through engineering command into the engineering mode.</li> <li>engineering command: *#*#3646633#*#*</li> </ul>			
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 low	west frequency, the middle frequency and	the highest frequency keep		
transmitting of the EUT.	1			
Mode	Channel	Frequency(MHz)		
	СН0	2402		
DH1/DH3/DH5	СН39	2441		
	CH78	2480		
	СНО	2402		
2DH1/2DH3/2DH5	СН39	2441		
	CH78	2480		
	СНО	2402		
3DH1/3DH3/3DH5	СН39	2441		
	CH78	2480		

### Run Software:

BT98X FCC Tool	¥ 112	~	1000	>
Serial Setting				
сом:	•			1
Baud: 11520	Open 0			
FCC Config	Dantality -			
Frequency:	2401Mhz 💌			
ModulationRate:	GFSK 💌			
TX/RX:	TX •			
BT/BLE:	BT3.0 -			
Carrier/Data:	Carrier 💌			
Data Length:	DH1 -			
Freq Fix/Hop:	FIX •			
	0dbm 👻			
Tx Power:				
Start				
<u>k</u>				



### 4.4 Test Environment

Operating Environment	
Temperature:	25 °C
Humidity:	54% 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	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
1	Radiated Emission (Below 1GHz)	5.12dB
2	Radiated Emission (Above 1GHz)	4.60dB
3	Conducted Disturbance (0.15~30MHz)	3.34dB
4	Radio Frequency	3×10 <sup>-8</sup>
5	Duty cycle	0.6 %
6	Occupied Bandwidth	1.1%
7	RF conducted power	0.86dB
8	RF power density	0.74
9	Conducted Spurious emissions	0.86dB
10	Temperature test	0.8°C
11	Humidity test	2.0%
12	Supply voltages	0.5 %
13	Frequency Error	5.5 Hz

Hereafter the best measurement capability for CQA laboratory is reported:



## 4.7 Test Location

All tests were performed at:

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:

### CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

### • 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.

### 4.10 Other 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	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2022/9/9	2023/9/8
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable					
(Above 1GHz)	CQA	N/A	C019	2022/9/9	2023/9/8
Coaxial Cable					
(Below 1GHz)	CQA	N/A	C020	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF					
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2022/9/9	2023/9/8
EMI Test Receiver	R&S	ESPI3	CQA-013	2022/9/9	2023/9/8
LISN	R&S	ENV216	CQA-003	2022/9/9	2023/9/8
Coaxial cable	CQA	N/A	CQA-C009	2022/9/9	2023/9/8

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)	
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### 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 so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### EUT Antenna:



The antenna is PCB antenna. The best case gain of the antenna is 2 dBi.





# 5.2 Conducted Emissions

 Conducted Emissio				
Test Requirement:	47 CFR Part 15C Section 15.207			
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150kHz to 30MHz			
Limit:		Limit (c	lBuV)	
	Frequency range (MHz)	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 Setup:	<ol> <li>The mains terminal disturbution.</li> <li>The EUT was connected to Impedance Stabilization Netion impedance. The power call connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single LI exceeded.</li> <li>The tabletop EUT was place ground reference plane. An placed on the horizontal grade on the closest points the EUT shall be 0.4 m for the grade on the closest points the EUT and associated exception of the grade on the closest points the EUT and associated exceptions the EUT and associated exceptions the EUT and all of the implication of the grade on the formation of the grade on the formation of the grade on the formation of the EUT and associated exceptions the EUT and associated exceptions the EUT and all of the implication of the grade on the formation of the grade on the formation of the EUT and associated exceptions the EUT and associated exc</li></ol>	b AC power source thro etwork) which provides oles of all other units of SN 2, which was bonde in way as the LISN 1 for et outlet strip was used ISN provided the rating ced upon a non-metalling of floor-standing an round reference plane, th a vertical ground ref from the vertical ground ref from the vertical ground ref from the vertical ground olane 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 in emission, the relativi- terface cables must be	bugh a LISN 1 (Line a $50\Omega/50\mu$ H + $5\Omega$ line f the EUT were d to the ground or the unit being d to connect multiple of the LISN was not c table 0.8m above the rangement, the EUT was d reference plane. The read d reference plane. The read d reference plane. The read d reference plane the EUT was end the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2 we positions of	near was ar ne of 2.
Test Setup:	AC Mains	AE uby UISN2 + AC Ma Ground Reference Plane	Test Receiver	

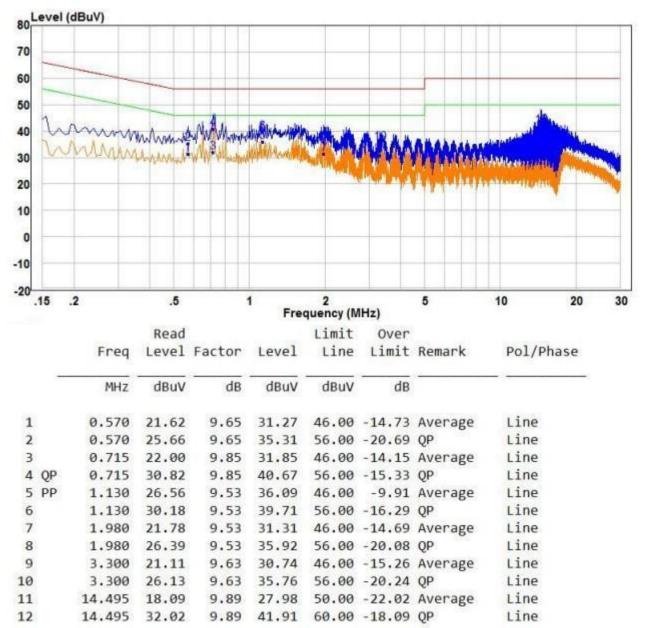


Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of
	data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in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



#### Measurement Data

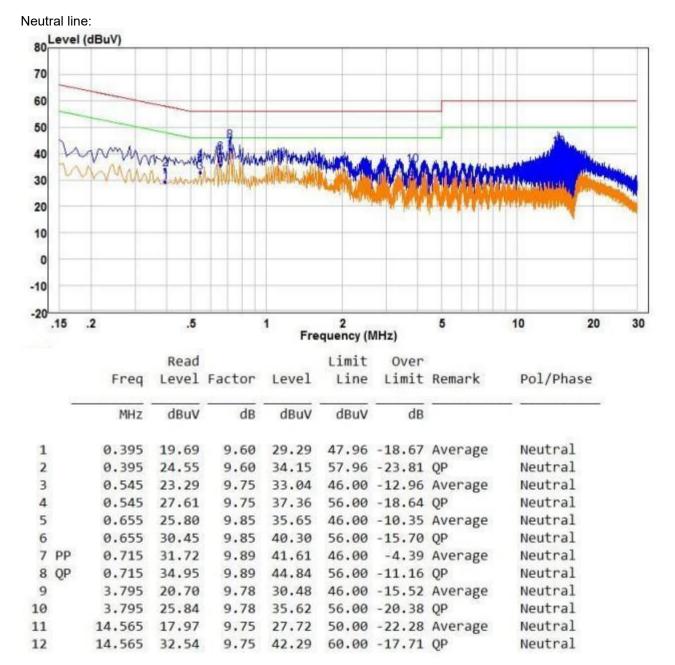
Live line:



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.





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 $\pi$ /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	

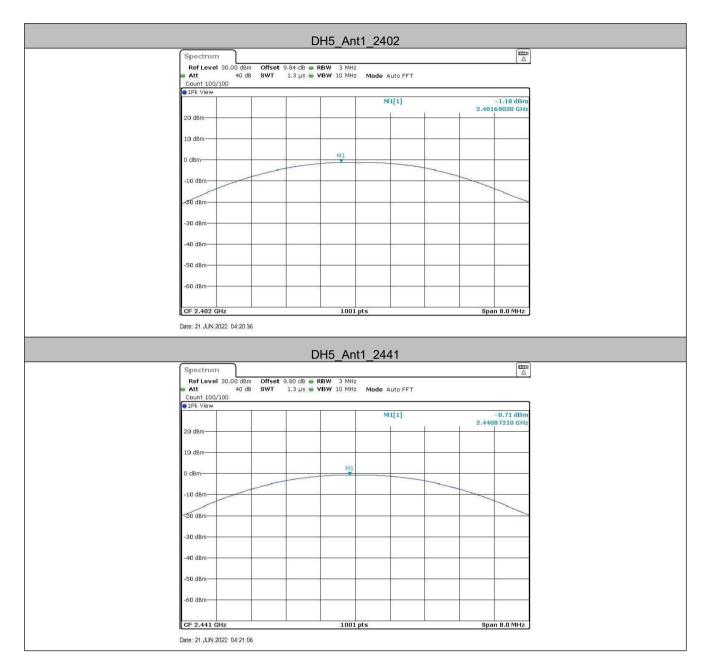


## Measurement Data

GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-1.18	21.00	Pass		
Middle	-0.71	21.00	Pass		
Highest	0.02	21.00	Pass		
	π/4DQPSK m	ode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-0.76	21.00	Pass		
Middle	-0.09	21.00	Pass		
Highest	Highest 0.63		Pass		
	Highest 0.63 21.00 Pass 8DPSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	-0.16	21.00	Pass		
Middle	0.19	21.00	Pass		
Highest	1.15	21.00	Pass		



### Test plot as follows:





	DH5	Ant1_2480		
Spectrum				
	ffset 9.80 dB 👄 RBW 3 WT 1.3 µs 👄 VBW 10	3 MHz 3 MHz – <b>Mode</b> Auto FFT		
●1Pk View		M1[1]	0.02	dBm
20 dBm-			2.47970430	GHz
20 000				
10 dBm-		41		
0 dBm-				
-10 dBm				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
-60 dBm		10		
CF 2.48 GHz		1001 pts	Span 8.0 M	IHZ
Date: 21.JUN.2022 04:21:24		2012.		
	2DH5	Ant1 2402		
Spectrum		_Ant1_2402		
RefLevel 30.00 dBm Of Att 40 dB SV	ffset 9.84 dB 👄 RBW			
Ref Level 30.00 dBm Of	ffset 9.84 dB 👄 RBW	3 MHz ) MHz <b>Mode</b> Auto FFT		
Ref Level 30.00 dBm Of Att 40 dB SV Count 100/100	ffset 9.84 dB 👄 RBW	3 MHz	-0.76 2.40219980	dBm
Ref Level         30.00         dBm         OI           Att         40 dB         St         Count:100/100         St           @1Pk View         20 dBm         20 dBm         20 dBm         20 dBm	ffset 9.84 dB 👄 RBW	3 MHz ) MHz <b>Mode</b> Auto FFT	-0.76 2.40219980	dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10 dBm         10 dBm	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT	-0.76 2.40219980	dBm
Ref Level         30.00         dBm         OI           Att         40 dB         St         Count:100/100         St           @1Pk View         20 dBm         20 dBm         20 dBm         20 dBm	ffset 9.84 dB 👄 RBW	3 MHz ) MHz <b>Mode</b> Auto FFT	-0.76 2:40219980	dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10 dBm         10 dBm	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT	-0.76 2.40219980	dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10         Bm           20 dBm         10         dBm           10 dBm         -10 dBm         -10	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT	-0.76 2.40219980	dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10 dBm         0           10 dBm         0         dBm           10 dBm         -0         0	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT		dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10         Bm           20 dBm         10         dBm           10 dBm         -10 dBm         -10	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT		dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10 dBm         0           10 dBm         0         dBm           10 dBm         -0         0	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT		dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10         Bm           20 dBm         0         dBm           10 dBm         0         dBm           -10 dBm         -30 dBm         -30 dBm	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT		dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         1Pk View         20           10 dBm         0         dBm           10 dBm         -0         dBm           -10 dBm         -30 dBm         -40 dBm	ffset 9.84 dB 👄 RBW	3 MHz D MHz Mode Auto FFT		dBm
Ref Level 30.00 dBm         OI           Att         40 dB         St           Count 100/100         10 kBm         10 dBm           10 dBm         0 dBm         10 dBm           10 dBm         10 dBm         10 dBm           -10 dBm         -30 dBm         -50 dBm           -50 dBm         -60 dBm         -60 dBm	ffset 9.84 dB      RBW	B MH2 MH2 Mode Auto FFT M1[1] M1 M1		dBm GHz
Ref Level 30.00 dBm         Oil           Att         40 dB         St           Count 100/100         1Pk View         20           10 dBm         0         dBm           10 dBm         0         dBm           -10 dBm	ffset 9.84 dB      RBW	3 MHz D MHz Mode Auto FFT	-0.76 2.40219980	dBm GHz



	2DH5_Ant1_2441		
Spectrum Ref Level 30.00 dBm Offset 9.8	0 dB • RBW 3 MHz		
	3 µs 🖶 VBW 10 MHz Mode Auto FFT		
20 dBm	M1[1]	-0.09 dBm 2.44066430 GHz	
10 dBm			
0 dBm	M1		
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-60 dBm			
CF 2.441 GHz	1001 pts	Span 8.0 MHz	
 Date: 21.JUN.2022 04:22:10			
	2DH5_Ant1_2480		
Spectrum           Ref Level 30.00 dBm         Offset 9.8           Att         40 dB         SWT         1.	0 dB 🖶 <b>RBW</b> 3 MHz 3 µs 🖶 <b>VBW</b> 10 MHz <b>Mode</b> Auto FFT		
Count 100/100	and the second company of the second of		
●1Pk View	M1[1]	0.63 dBm	
	M1[1]	0.63 dBm 2.48032770 GHz	
1Pk View		0.63 dBm 2:48032770 GHz	
P1/2 View     20 dBm     10 dBm     0 dBm	M1[1]	0.63 dBm 2:48032770 GHz	
P1Pk View     20 dBm     10 dBm     0 dBm -10 dBm		0.63 dBm 2.48032770 GHz	
P1/2 View     20 dBm     10 dBm     0 dBm		0.63 dBm 2.48032770 GHz	
1Pk View     20 dBm     10 dBm     0 dBm     -10 dBm     -20 dBm		0.63 dBm 2.48032770 GHz	
P1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30		0.63 dBm 2.48032770 GHz	
P1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40		0.63 dBm 2.48032770 GHz	



3DH5_Ant1_2402	
Spectrum         Image: Constraint of the section	
Count 100/100 ●1Pk View M1[1] -0.16 dBm	
20 dBm	
10 dBm	
0 dBm	
-10 dBm	
-20 dBm	
-30 dBm	
-50 dbm	
-60 dBm	
CF 2.402 GHz 1001 pts Span 8.0 MHz	
Date: 21.JUN 2022 04:22:53	
3DH5_Ant1_2441	
Spectrum Ref Level 30.00 dBm Offset 9.80 dB ● RBW 3 MHz	
Att 40 dB SWT 1.3 µs VBW 10 MHz Mode Auto FFT Count 100/100  Inv View	
20 dBm 2.44064840 GHz	
10 dBm	
0 dBm	
-10 dBm	
-20 dBm	
~20 dBm	
-30 dBm	
-30 dBm	
-30 dBm	



Spectrum The second sec
Ref Level 30.00 dBm         Offset 9.80 dB         RBW         3 MHz           Att         40 dB         SWT         1.3 µs         VBW 10 MHz         Mode Auto FFT           Count 100/100         FT         1.3 µs         VBW 10 MHz         VBW         VBW           PJR view         FT         FT         FT         FT         FT
20 dBm
10 dBm
0 d8m
-10 dBm
-20 dBm
-40 dBm
-50 d8m
-60 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 $\pi$ /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)		
	GFSK	π/4DQPSK	8DPSK
Lowest	0.939	1.257	1.242
Middle	0.939	1.257	1.245
Highest	0.939	1.254	1.242



### Test plot as follows:









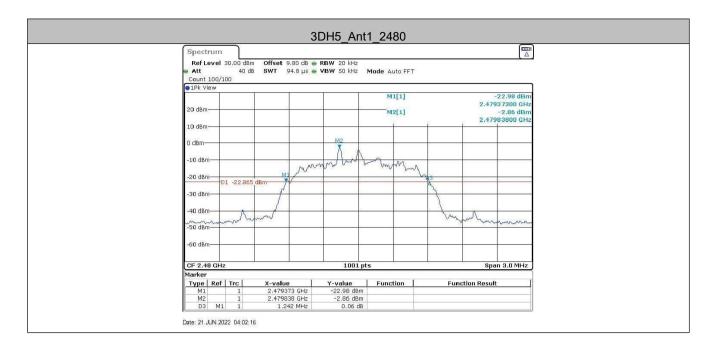














# 5.5 Carrier Frequencies Separation

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 $\pi$ /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

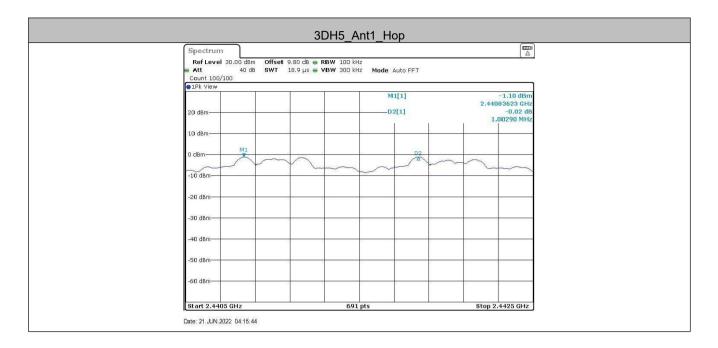
TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1.142	≥0.626	PASS
2DH5	Ant1	Нор	1.003	≥0.838	PASS
3DH5	Ant1	Нор	1.003	≥0.830	PASS



### Test plot as follows:









# 5.6 Hopping Channel Number

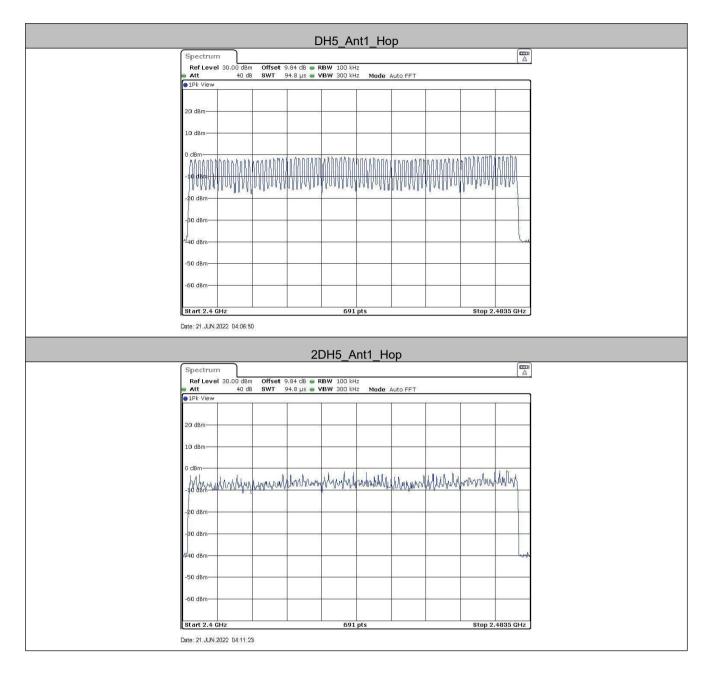
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Limit:	At least 15 channels
Exploratory Test Mode:	hopping transmitting with all kind of 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 $\pi/4DQPSK$ 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
8DPSK	79	≥15



### Test plot as follows:





3DH5_Ant1_Hop
Spectrum         Image: Constraint of the section
IPk View
20 dBm
10 dBm
o dem-
-20 dBm
-30 dem
/%+0 dBm
-60 dBm
Start 2.4 GHz 691 pts Stop 2.4835 GHz



## 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**

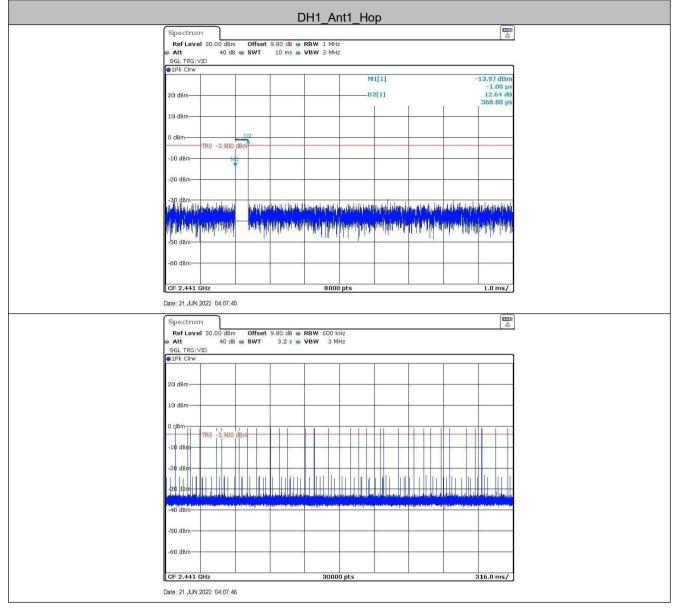
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Нор	1.61	160	0.257	≤0.4	PASS
DH5	Ant1	Нор	2.85	110	0.314	≤0.4	PASS
2DH1	Ant1	Нор	0.38	330	0.125	≤0.4	PASS
2DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.121	≤0.4	PASS
3DH3	Ant1	Нор	1.62	160	0.259	<u>_0.4</u>	PASS
3DH5	Ant1	Нор	2.86	120	0.344	<u>≤</u> 0.4	PASS

#### Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s



#### Test plot as follows:





	DH3_Ant1_Hop		
Spectrum			
Ref Level 30.00 dBm Offset	9.80 dB 🖷 RBW 1 MHz		
Att 40 dB SWT	10 ms 👄 VBW 3 MHz		
SGL TRG: VID 9 1Pk Clrw			
	M1[1]	-8.55 dBm	
20 dBm-	D2[1]	-1.00 μs 7.27 dB	
	I I I	1.60895 ms	
10 dBm			
0 dBm- TRG -3.80Q(dBm-			
-10 dBm			
-To ubin			
-20 dBm			
-30 dBm this students with a state, Manuality	والمراجع المرافع والفريا والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع	resilier a saante een jal millik aansterretende ja	
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		a na hain in a hain an	
-50 dBm			
		2	
-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
Date: 21.JUN.2022 04:08:10			
Spectrum			
Ref Level 30.00 dBm Offset	9.80 dB 👄 RBW 500 kHz		
👄 Att 🛛 40 dB 👄 SWT	3.2 s 👄 VBW 3 MHz		
SGL TRG: VID 1Pk Clrw			
20 dBm			
20 0811			
10 dBm			
0 dBm			
-10 dBm			
-20 dBm			
		F FT T TTT	
-BO dBm			
	ne pour us an energie de la constitue d'a constant Nation parte de la constant de la constant parte de la const A la parte de la constant pour se se	ne plane je men se na	
-40 dBm-		The second	
-50 dBm			
-JO ubili			
-60 dBm			
CF 2.441 GHz	30000 pts	316.0 ms/	
	in protocol and the second secon		
Date: 21. JUN.2022 04:08:15			





	0H5_Ant1_Hop		
Ref Level 30.00 dBm Offset 9.80 dB	PBW 1 MHz		1
● Att 40 dB ● SWT 10 ms ●			
SGL TRG: VID		J	1
	M1[1]	-24.97 dBm -2.25 μs	
20 dBm-	D2[1]	23.70 dB	
		2.85036 ms	
10 dBm			
0 dBm	<u>D2</u>		
TRG -3.900 dBm			
-10 dBm			
-20 dBm			
Ť			
-30 dBm	stant differ diaministration in	ورز عليها العلية بالملت عروران المرولين بالمع العلمان المع ويه	
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-50 dBm			
-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
Date: 21.JUN.2022 04:07:04			
		E A	)
Spectrum Ref Level 30.00 dBm Offset 9.80 dB	RBW 500 kHz	(Δ)	]
RefLevel 30.00 dBm Offset 9.80 dB ● ● Att 40 dB ● SWT 3.2 s ●	RBW 500 kHz VBW 3 MHz		]
Ref Level 30.00 dBm Offset 9.80 dB 🖷		(A)	]
Att         40 dB         SWT         3.2 s           SGL TRG: VID			
Att         40 dB         SWT         3.2 s           SGL TRG: VID			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG:VID         Image: SGL TRG:VID         Image: SGL TRG:VID           Image: PIP Cirw         Image: SGL TRG:VID         Image: SGL TRG:VID           20 dBm         Image: SGL TRG:VID         Image: SGL TRG:VID			]
Ref Level         30.00         dBm         Offset         9.80         dB           Att         40         dB         SWT         3.2 s         SGL         TRG: YID           SQL         TRG: YID         1Pk         Cirw         SGL			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG:VID         Image: second			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRC: VID         1Pk Clrw         1Pk Clrw           10 dBm         0 dBm         16 - 3.90 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG:VID         Image: second			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRC: YID         1Pk Clrw         1Pk Clrw           10 dBm         0 dBm         16 - 3.90 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRC:VID         10/2         10/2         10/2           10 dBm         10/2         10/2         10/2           -20 dBm         -20 dBm         -10/2         10/2			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG: VID         1PK CIrw         1PK CIrw         10 dBm           10 dBm         10 dBm         10 dBm         10 dBm           -10 dBm         10 dBm         10 dBm         10 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRC:VID         10/2         10/2         10/2           10 dBm         10/2         10/2         10/2           -20 dBm         -20 dBm         -10/2         10/2			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG: VID         1Pk Cinw         1Pk Cinw         1Pk Cinw           1Pk Cinw         20 dBm         10 dBm         10 dBm           10 dBm         10 dBm         10 dBm         10 dBm           -10 dBm         -20 dBm         -10 dBm         -10 dBm           -20 dBm         -20 dBm         -20 dBm         -20 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG: YID         1Pk Cirw         1Pk Cirw           10 dBm         0         0         1Pk Cirw           10 dBm         10 dBm         10 dBm         10 dBm           -10 dBm         -10 dBm         -10 dBm         -10 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG: VID         1PK Cirw         1PK Cirw           1PK Cirw         10 dBm         10 dBm           10 dBm         10 dBm         10 dBm           -10 dBm         -10 dBm         -10 dBm           -20 dBm         -20 dBm         -10 dBm           -50 dBm         -50 dBm         -10 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG: VID         1Pk Cinw         1Pk Cinw         1Pk Cinw           1Pk Cinw         20 dBm         10 dBm         10 dBm           10 dBm         10 dBm         10 dBm         10 dBm           -10 dBm         -20 dBm         -10 dBm         -10 dBm           -20 dBm         -20 dBm         -20 dBm         -20 dBm			
Ref Level 30.00 dBm         Offset 9.80 dB           Att         40 dB         SWT         3.2 s           SGL TRG: VID         1PK Cirw         1PK Cirw           1PK Cirw         10 dBm         10 dBm           10 dBm         10 dBm         10 dBm           -10 dBm         -10 dBm         -10 dBm           -20 dBm         -20 dBm         -10 dBm           -50 dBm         -50 dBm         -10 dBm			





	2DH1_A	nt1 Hon		
Spectrum				
	3m Offset 9.80 dB ● RBW 1 MHz dB ● SWT 10 ms ● VBW 3 MHz		- 2010 - Kr - 101	
● 1Pk Clrw		M1[1]	-20.64 dBm	
20 dBm-		D2[1]	-2.25 μs 17.95 dB 377.55 μs	
10 dBm				
0 dBm	00 dBm			
-10 dBm	MI			
-30 dBm				
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-20 gBm	lan dan king bir bir dan king bir ballar. a	ملا ((1) مار مراز مهارة علا أب المالية (1) م	and the second	
-60 dBm				
CF 2.441 GHz	8000	pts	1.0 ms/	
Date: 21.JUN.2022 04:12	:06			
Spectrum Ref Level 30.00 dt Att 40	3m Offset 9.80 dB ● RBW 500 kH dB ● SWT 3.2 s ● VBW 3 MH			
SGL TRG: VID	UD 3WI 3.25 VDW 31	2	]	
20 dBm				
10 dBm				
0,d8m				
-10 dBm				
-20(d8m++++++++				
-30(d8m				
-50 dBm				
-50 dBm				
	30000	pts	316.0 ms/	





	2DH3_A	nt1 Hon		
Spectrum	2010_A	nti_nop		
Ref Level 30.00 dBr	n Offset 9.80 dB 🗑 RBW 1 MH:			
SGL TRG: VID	B 🖷 SWT 10 ms 🖷 VBW 3 MH:			
● 1Pk Clrw		M1[1]	-10.78 dBm	
			-1.00 µs	
20 dBm-		D2[1]	8.31 dB 1.62145 ms	
10 dBm				
0 dBm	) dBm <sup>etereleventereleventereleventere</sup>			
-10 dBm	41	24		
-20 dBm				
		the study of heart langer with the measure of the	utitic self description real	
ing the state of the	l hybriddig ydd fw	ilisin a childan dahar kupunangin	reliti propiti di putano	
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-50 dBm		is half i		
-60 dBm				
-00. dBit				
CF 2.441 GHz	8000	pts	1.0 ms/	
Date: 21.JUN.2022_04:12:3	Area			
	1927 <sup>-7</sup>			
Spectrum Ref Level 30.00 dBr	n Offset 9.80 dB 🖷 RBW 500 k	Hz		
👄 Att 40 d	B 👄 SWT 3.2 s 👄 VBW 3 M	Hz		
SGL TRG: VID IPk Cirw			]	
		For the second sec		
20 dBm			· · · · · ·	
10 dBm				
10 0011				
0 dBm				
TRG -3.700				
TRG -3.700				
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-10 dBm -20 dBm -20 dBm -30 dBm -40 dBm				
-10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm				
-10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -50 dBm			316.0 ms/	





		44 . L.L		
	2DH5_An	t1_Нор		
Spectrum Ref Level 30.00 dBm 0	ffset 9.80 dB 👄 RBW 1 MHz			
	WT 10 ms 🖷 VBW 3 MHz			
●1Pk Clrw		CONFIN		
		M1[1]		-18.07 dBm -2.25 μs
20 dBm-	2 A A	D2[1]		15.39 dB 2.86161 ms
10 dBm				
0 dBm			1	
-10 dBm				
MI				
-20 dBm				1
-30 dBm		his har celent data and a shirts of	ak he or card fills of fi	l
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-50 dBm			1 1	
-60 dBm				
CF 2.441 GHz	8000 p	ts		1.0 ms/
Date: 21.JUN.2022_04:11:37				
Spectrum				
	ffset 9.80 dB <b>⊜ RBW</b> 500 kHz WT 3.2 s <b>⊜ VBW</b> 3 MHz			
SGL TRG: VID				
20 dBm	-			
10 dBm	8 2 8	5		
0 dBm				
-10 dBm				
-20 dBm				
-30 dBm	and all state of the asia day is			a decar a stati
<ul> <li>And the second seco second second sec</li></ul>	Income of the local state of the state of th	وللسبي بريايين جميل وليا <mark>ت</mark> وجروحة يأسرونين 1994 - مريد وجروبية والمريد وجروبية يكون ومريد	and a second part of the second	a locate in the shift, a floor
-50 dBm				19 (
-60 dBm		0		
CF 2.441 GHz	30000	ots		316.0 ms/
Date: 21.JUN.2022 04:11:42				





3DH1_Ant1_Hop	
Spectrum	
Ref Level         30.00 dBm         Offset         9.80 dB         RBW 1 MHz           Att         40 dB         SWT         10 ms         VBW 3 MHz	
SGLTRG: VID	
M1[1] -13.76 dBm	
-1.00 µs 20 d8m	
10 dBm	
0 dBm	
-10 dBm	
-20 dBm	
-30 dBm	
120 optimized and state provided the section of the	
a na service in the part of the second of the second second second second second second second second second s	
-50 dBm	
-60 dBm	
CF 2.441 GHz 8000 pts 1.0 ms/	
Date: 21.JUN 2022 04:17:18	
Spectrum         □           Ref Level 30.00 dBm         Offset 9.80 dB ● RBW 500 kHz	
Att 40 dB SWT 3.2 s VBW 3 MHz SGL TRG:VID	
● 1Pk Clrw	
20 dBm	
10 dBm	
-10 dBm	
-10.080	
-20 (B)n	
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-60 dBm	
-60 dBm CF 2.441 GHz 30000 pts 316.0 ms/ Date: 21.UUN 2022 0417.23	

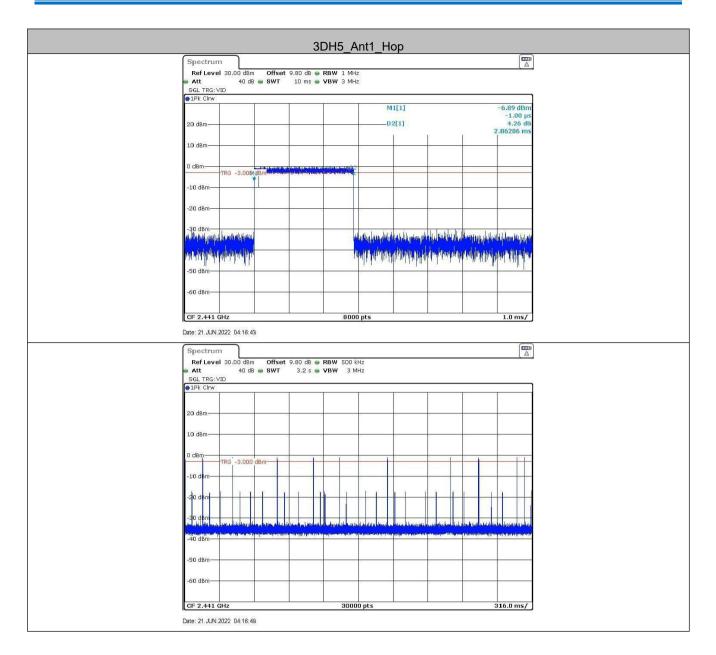




	3DH3_Ant1_Hop		
Spectrum Ref Level 30.00 dBm Offset	9.80 dB • RBW 1 MHz		
👄 Att 🛛 40 dB 👄 SWT	10 ms SVBW 3 MHz		
SGL TRG; VID PIPk Cirw			
	M1[1]	-5.86 dBm -1.00 μs	
20 dBm	D2[1]	3.29 dB 1.61895 ms	
10 dBm		1.01093 113	
10 0511			
0 dBm			
-10 dBm			
-10 0011			
-20 dBm			
-30,dBm-			
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-60 dBm			
GF 2.441 GHz		1.0 ms/	
AT THE ADDRESS AND	8000 pts	1.0 ms/	
Date: 21.JUN.2022 04:17:48			
Spectrum			
Att 40 dB SWT	9.80 dB • RBW 500 kHz 3.2 s • VBW 3 MHz		
SGL TRG: VID			
20 dBm			
10 dBm			
0 dBm			
TRG -2.900 dBm			
-10 dBm			
-20 dBm-++++++++++++++++++++++++++++++++++++			
-BO dBm - in the second state and the second state	a little on the other and a second		
-40 dBm	a 1994 da ya kutoka kutoka Ini 1994 da ya kutoka	an fan fan it stelenen y feld som fan sterenen fill skere om sker skriget pr	
-50 dBm			
-60 dBm			
-60 dBm			









# 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 $\pi/4DQPSK$ 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



# Shenzhen Huaxia Testing Technology Co., Ltd.

Report No.: CQASZ20220600967E-01

### Measurement Data

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	0.36	-47.99	≤-19.64	PASS
		High	2480	-0.35	-48.08	≤-20.35	PASS
DH5	Ant1	Low	Hop_2402	-2.34	-48.78	≤-22.34	PASS
		High	Hop_2480	-0.93	-47.69	≤-20.93	PASS
		Low	2402	-2.07	-48.79	≤-22.07	PASS
		High	2480	-1.21	-47.65	≤-21.21	PASS
2DH5	Ant1	Low	Hop_2402	-6.12	-48.97	≤-26.12	PASS
		High	Hop_2480	-2.04	-47.55	≤-22.04	PASS
		Low	2402	-1.51	-48.93	≤-21.51	PASS
		High	2480	-0.34	-47.43	≤-20.34	PASS
3DH5	Ant1	Low	Hop_2402	-1.49	-47.81	≤-21.49	PASS
		High	Hop_2480	-0.35	-47.74	≤-20.35	PASS



### Test plot as follows:

	DH	5_Ant1_Low	_2402		
Spectrum					
Ref Level 20.00 dBm				(-)	
Att 30 dB Count 300/300	SWT 75.8 µs 🖷	VBW 300 kHz Mod	le Auto FFT		
1Pk View					
			M1[1]	0.36 dBm	
10 dBm			M2[1]	2.4018560 GHz -49.94 dBm	
0 dBm				2.4000000 GHz	
	1				
-10 dBm					
-20 dBm-D1 -19.640	dBm		_		
-30 dBm		8	11 B		
-40 dBm	M4	-			
ASBIDER MAN	<b>y</b>	Martin Journal and the state	M3	shutenya 12/	
		a monormal parts		An and an and an an	
-60 dBm					
-70 dBm		+			
Start 2.35 GHz		691 pts		Stop 2.405 GHz	
Marker _Type   Ref   Trc	X-value	Y-value   Fi	Inction	Function Result	
M1 1	2.401856 GHz	0.36 dBm		T anotion no suic	
M2 1 M3 1	2.4 GHz 2.39 GHz	-49.94 dBm -51.48 dBm			
M4 1	2.3626739 GHz	-47.99 dBm			
Date: 21.JUN.2022 03:44:26					
	DH	5_Ant1_High	2/20		
		<u>_/i ligi</u>	1_2400		
Spectrum		5_7 (iit i _ i iig)	1_2400		
Ref Level 20.00 dBm	Offset 9.80 dB 🖷	RBW 100 kHz			
RefLevel 20.00 dBm Att 30 dB	Offset 9.80 dB 🖷				
Ref Level 20.00 dBm	Offset 9.80 dB 🖷	RBW 100 kHz	le Auto FFT		
Ref Level 20.00 dBm Att 30 dB Count 300/300 1Pk View	Offset 9.80 dB 🖷	RBW 100 kHz		-0.35 dBm	
Ref Level 20.00 dBm Att 30 dB Count 300/300 1Pk View 10 dBm	Offset 9.80 dB 🖷	RBW 100 kHz	le Auto FFT	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm Att 30 dB Count 300/300 1Pk View 10 dBm 	Offset 9.80 dB 🖷	RBW 100 kHz	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           ● 1Fk View           10 dBm           0 dBm	Offset 9.80 dB 🖷	RBW 100 kHz	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm Att 30 dB Count 300/300 1Pk View 10 dBm 	Offset 9.80 dB 🖷	RBW 100 kHz	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           ● 1Fk View           10 dBm           0 dBm	Offset 9.80 dB	RBW 100 kHz	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           P1Pk View           10 dBm           -10 dBm           -20 dBm           01 -20.350	Offset 9.80 dB	RBW 100 kHz	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           ● 1Pk View           10 dBm           0 dBm           -10 dBm	Offset 9.80 dB	RBW 100 kHz	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm           10 dBm           -20 dBm           -30 dBm           -40 dBm	Оffset 9.80 dB SWT 94.8 µs dBm	RBW 100 kHz VBW 300 kHz Moc	e Auto FFT M1[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           M2	Offset 9.80 dB ● SWT 94.8 µs ●	RBW 100 kHz VBW 300 kHz Moo	Ie Auto FFT M1[1] M2[1]	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50,dBm           -50,dBm	Offset 9.80 dB ● SWT 94.8 µs ●	RBW 100 kHz VBW 300 kHz Moo	M1[1] M2[1] M2[1]	-0.35 dBm 2.479780 GHz -51.36 dBm	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           M2	Offset 9.80 dB ● SWT 94.8 µs ●	RBW 100 kHz VBW 300 kHz Moo	Ie Auto FFT M1[1] M2[1]	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50,dBm           -50,dBm	Offset 9.80 dB ● SWT 94.8 µs ●	RBW 100 kHz VBW 300 kHz Moo	Ie Auto FFT M1[1] M2[1]	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm         10 dBm           -10 dBm         10 dBm           -20 dBm         1 - 20.350           -30 dBm         -40 dBm           -50 dBm         -70 dBm	Offset 9.80 dB ● SWT 94.8 µs ●	RBW 100 kHz Moc	Ie Auto FFT M1[1] M2[1]	-0.35 dBm 2.479780 CHz -51.36 dBz 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           9 1Pk View           10 dBm           10 dBm           -10 dBm           -20 dBm           -30 dBm           -50 dBm           -50 dBm           -70 dBm           Start 2.47 GHz	Offset 9.80 dB ● SWT 94.8 µs ●	RBW 100 kHz VBW 300 kHz Moo	Ie Auto FFT M1[1] M2[1]	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.47 GHz           Marker	dBm	RBW 100 kHz VBW 300 kHz Moc	le Auto FFT M1[1] M2[1] M4	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           ●1Pk View           10 dBm	Offset 9.80 dB SWT 94.8 µs	RBW 100 kHz         Mod           VBW 300 kHz         Mod           Image: State of the state	Ie Auto FFT M1[1] M2[1]	-0.35 dBm 2.479780 CHz -51.36 dBz 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           91Pk View           10 dBm         10 dBm           -10 dBm	Оffset 9.80 dB SWT 94.8 µs dBm dBm xvolutive 2.47978 GHz 2.47978 GHz 2.47935 GHz	RBW 100 kHz VBW 300 kHz Mod	le Auto FFT M1[1] M2[1] M4	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           ●1Pk View           10 dBm	Offset 9.80 dB SWT 94.8 µs	RBW 100 kHz         Mod           VBW 300 kHz         Mod           Image: State of the state	le Auto FFT M1[1] M2[1] M4	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	
Ref Level 20.00 dBm           Att         30 dB           Count 300/300           ●1Pk View           10 dBm         10 dBm           -10 dBm         -10 dBm           -20 dBm         -1 -20.350           -30 dBm         -1 -20.350           -30 dBm         -40 dBm           -50 dBm         -90 dBm           -50 dBm         -90 dBm           -70 dBm         -90 dBm           Start 2.47 GHz         Marker           Type         Ref         Trc           M2         1         1	Offset         9.80 dB           SWT         94.8 µs           generalized         94.8 µs           dBm         94.8 µs           2.4935 GHz           2.5 GHz         2.5 GHz           2.5 GHz         2.5 GHz	RBW 100 kHz         Mod           VBW 300 kHz         Mod           Image: State of the state	le Auto FFT M1[1] M2[1] M4	-0.35 dBm 2.479780 GHz -51.36 dBm 2.483500 GHz	

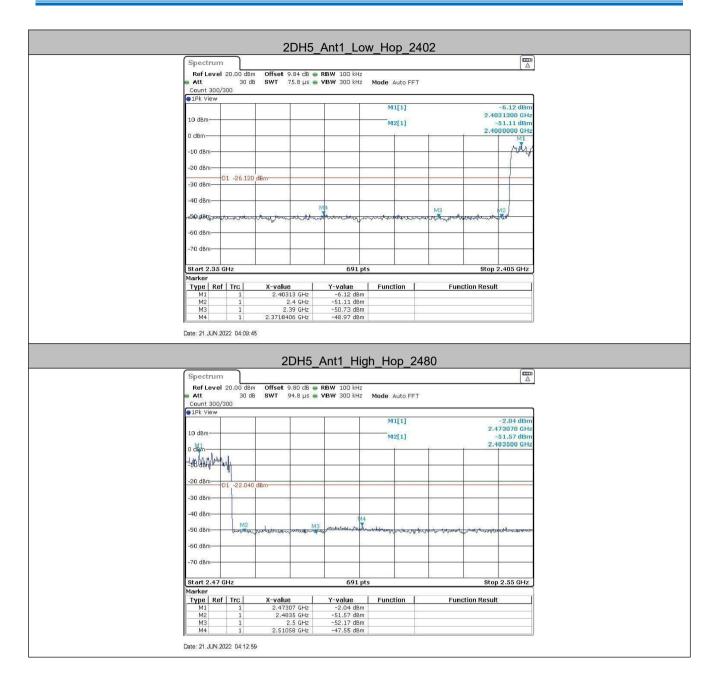


DH5_Ant1_Low_Hop_2402		
Spectrum		
Ref Level 20.00 dBm Offset 9.84 dB  RBW 100 kHz		
Att 30 dB SWT 75.8 μs VBW 300 kHz Mode Auto FFT Count 300/300		
IPk View		
M1[1] -2.34 dBm 2.4030500 GHz		
10 dbm M2[1] -49.58 dBm		
0 dBm 2.4000000,0Hz		
-10 dBm-		
-20 dBm 01 -22.340 dBm		
-30 dBm		
-40 dBm		
M4 M3 M2		
vEQARMan work many and		
-60 dBm-		
-70 dBm		
Start 2.35 GHz 691 pts Stop 2.405 GHz Marker		
Type Ref Trc X-value Y-value Function Function Result		
M1         1         2.40305 GHz         -2.34 dBm           M2         1         2.4 GHz         -49.58 dBm		
M3 1 2.39 GHz -51.47 dBm		
M4 1 2.3593261 GHz -48.78 dBm		
Date: 21 JUN 2022 04:04:43		
Date: 21.JUN 2022. 04:04:43  DH5_Ant1_High_Hop_2480  Spectrum  Ref Level 20:00 dbm Offset 9:80 db RBW 100 kHz  Att 30 db SWT 94.8 µs VBW 300 kHz Mode Auto FFT Count 300/300		
Date: 21.J.N. 2022 04:04:43 DH5_Ant1_High_Hop_2480 Spectrum Ref Level 20.00 dbm Offset 9:80 db RBW 100 kHz Att 30 db SWT 94:8 µs VBW 300 kHz Mode Auto FFT Count 300/300 IFT VIEW		
DH5_Ant1_High_Hop_2480		
DH5_Ant1_High_Hop_2480         Image: Spectrum         Ref Level 20.00 dbm offset 9.80 db @ RBW 100 kHz         Att       30 db       SWT       94.8 µs       VBW 300 kHz       Mode Auto FFT         Count 300/300         @1Pk View       M1[1]       -0.93 dBm         10 dbm       M2[1]       -5.93 dBm		
Dtte: 21.JLN.2022 04:04:43  DH5_Ant1_High_Hop_2480  Spectrum Ref Level 20.00 dBm Offset 9:80 dB @ RBW 100 kHz Att 30 dB swT 94:8 µs @ VBW 300 kHz Mode Auto FFT Count 30/300  PIPk View 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dBm 10 dBm 0ffset 9:80 dB @ MI[1] -0.93 dBm 10 dB		
Dtts: 21.J.N. 2022. 04.04.43 DH5_Ant1_High_Hop_2480 Spectrum Ref Level 20.00 dbm Offset 9.80 db ® RBW 100 kHz Count 300/300 @1Pk View 10 dbm M1[1] -0.93 dbm 10 dbm M2[1] 2.477000 GHz 2.489500 GHz		
Dtts: 21.J.N.2022. 04.04.43  DH5_Ant1_High_Hop_2480  Spectrum Ref Level 20.00 dbm Offset 9.80 db @ RBW 100 kH2 Suff 94.8 µs @ VBW 300 kH2 Mode Auto FFT Count 300/300  PIPk View 0 M1[1] 0 dbm 0 dbm 10 dbm 1		
Dtts: 21.J.N.2022 04:04:43		
Dtts: 21.J.N.2022. 04.04.43  DH5_Ant1_High_Hop_2480  Spectrum Ref Level 20.00 dbm Offset 9.80 db @ RBW 100 kH2 Suff 94.8 µs @ VBW 300 kH2 Mode Auto FFT Count 300/300  PIPk View 0 M1[1] 0 dbm 0 dbm 10 dbm 1		
DH5_Ant1_High_Hop_2480         Image: Colspan="2">Image: Colspan="2" Image: Colspan=		
DH5_Ant1_High_Hop_2480         Spectrum         Ref Level 20.00 dbm       Offset 9.80 db       RBW 100 kHz         Att 30 db       SWT 94.8 µS & VBW 300 kHz       Mode Auto FFT         Count 300/300         IPk View       MI[1]       -0.93 dbm         0 dbm       M2[1]       -50.93 dbm         2.469300 GHz         Auto and		
Date: 21.J.N.2022.04:04:43         DH5_Ant1_High_Hop_2480         Colspan="2">Colspan="2"         Colspan="2"         M11111       Colspan="2"         M11111       Colspan="2"         Colspan="2"       M11111       Colspan="2"         Colspan="2"       M11111       Colspan="2"         Colspan="2"       M11111       Colspan="2"         Colspan="2"        Colspan="2"          Colspan="2" <td< td=""><td></td></td<>		
DH5_Ant1_High_Hop_2480         Spectrum         Ref Level 20.00 dbm       Offset 9.80 db       RBW 100 kHz         Att 30 db       SWT 94.8 µS & VBW 300 kHz       Mode Auto FFT         Count 300/300         IPk View       MI[1]       -0.93 dbm         0 dbm       M2[1]       -50.93 dbm         2.469300 GHz         Auto and		
Date: 21.J.N.2022.04:04:43         DH5_Ant1_High_Hop_2480         Colspan="2">Colspan="2"         Colspan="2"         M11111       Colspan="2"         M11111       Colspan="2"         Colspan="2"       M11111       Colspan="2"         Colspan="2"       M11111       Colspan="2"         Colspan="2"       M11111       Colspan="2"         Colspan="2"        Colspan="2"          Colspan="2" <td< td=""><td></td></td<>		
Dte: 21.J.N.2022. 04:04:83         DH5_Ant1_High_Hop_2480         Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" Image: Colsp		
Dtr: 21.JLN 2022 04:04:8         Dtf5_Ant1_High_Hop_2480         Spectrum         The Level 20.00 dbm       Offset 9:80 db 9 RBW 100 kH2         Node Auto FFT         Count 300/2000         PIPk View       M1[1]         10 dbm       2.477000 GH2         10 dbm       M2[1]         2.493500 GH2         10 dbm       M2         10 dbm       M2         130 dbm       M3         40 dbm       M3         41 dbm       M3         42 dbm       M3         40 dbm       M3         40 dbm       M3         40 dbm       M3		
Dts 21.JLN 2022 04:04:8		
Dtr: 21.JLN 2022 04:04:3         DH5_Ant1_High_Hop_2480         Spectrum         Ref Level 20.00 dbm Offset 9:80 db 9: RBW 100 kHz         Note: 1.00 dbm Offset 9:80 db 9: RBW 100 kHz         Mode Auto FFT         Count 300/300         M1[1]       -0.93 dbm         0 dbm M1[1]       2.477000 GHz         0.93 dbm         0 dbm M1[1]       2.477000 GHz         0 dbm M2[1]       2.493500 GHz         0 dbm M2[1]       2.493500 GHz         0 dbm M2[1]       0.493 dbm         0 dbm M2[1]       0.30 dbm         0 dbm M2[1]       0.493 dbm		
Deter 21.JJN 2022 04:04.43         DH5_Ant1_High_Hop_2480         Spectrum         Ref Level 20.01 dBm       Offset 9.80 dB # RBW 100 kHz         Node Auto FFT         Count 300/200         I dBm       M1[1]         0 dBm       M2[1]         0 dBm		
Dt: 21.JJL 2022 04:04:3         DE: 21.JJL 2022 04:05:3         DE: 21.JLL 202:05:3 <td c<="" td=""><td></td></td>	<td></td>	



			2044	5_Ant1_	Low 2	2/02					
Spectru			2011	<u>_/ aiti_</u>		. 102			ſ		
RefLev	el 20.00 dBm			BW 100 kHz					L		
<ul> <li>Att Count 30</li> </ul>	30 dB 0/300	<b>SWT</b> 75	.8 µs 👄 V	BW 300 kHz	Mode Au	to FFT					
IPk Viet											
- 19					M1[	1]		2.40	-2.07 dE 18560 G	-m Hz	
10 dBm-				1	M2[	1]		-	50.08 dE	m	
0 dBm	-		2		1		<u> </u>	2,40	D QQQD G	12	
-10 dBm-									A	_	
-20 dBm-											
-20 08/1-	D1 -22.070	dBm								-	
-30 dBm-	-						8			-	
-40 dBm-			di aliana d						4	_	
~559/dBm~	M4	ann march	an manual sta	mum	North March Ne	Auchar	MB	dradia mar	12	-	
1 2 2 1 2											
-60 dBm-										1	
-70 dBm-		+								-1	
Start 2.3	5 GHz	8		691 pt	ts			Stop 1	2.405 GH	z	
Marker							6.102			1	
Type I M1	tef Trc	2.401856	GHz	Y-value -2.07 dBm	Functio	on	Func	tion Result		-	
M2	1	2.4	GHz GHz	-50.08 dBm -50.79 dBm							
	1			-48.79 dBm						_	
M3 M4	1	2.3574928	I GHz	-48.79 UBM	5						
M4	1 N.2022 03:51:3	4				2480					
Date: 21.JU Spectrr Ref Lev Att	N.2022 03:51:3 Im rel 20.00 dBm 30 dB	4 Offset 9.8	2DH5	5_Ant1_	High_2				[I		
Spectru Ref Lev Count 31	N.2022 03:51:3	4 Offset 9.8	2DH5	5_Ant1_	High_2				[		
Date: 21.JU Spectrr Ref Lev Att	N.2022 03:51:3	4 Offset 9.8	2DH5	5_Ant1_	High_2	ito FFT			-1.21 dE		
Spectru Ref Lev Count 31	V.2022 03:51:3 rel 20.00 dBm 30 dE v	4 Offset 9.8	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
Spectru Ref Let Att Count 31 I PF Vier	N.2022 03:51:3	4 Offset 9.8	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G	m Hz	
Spectru Ref Lev • Att • OdBm 0 dBm	V.2022 03:51:3 rel 20.00 dBm 30 dE v	4 Offset 9.8	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
Spectru Ref Lev • Att Count 31 • 1Pk View 10 dBm -10 dBm	N.2022 03:51:3	4 Offset 9.8	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
Spectru Ref Lev • Att • OdBm 0 dBm	N.2022 03:51:3	4 • Offset 9.8 • SWT 94	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
Spectru Ref Lev • Att Count 31 • 1Pk View 10 dBm -10 dBm	N.2022 03:51:3	4 • Offset 9.8 • SWT 94	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
■	N.2022 03:51:3	4 • Offset 9.8 • SWT 94	2DH5	5_Ant1_	High_2 Mode Au	ito FFT		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
	N 2022 03:51:3	4 0 Offset 9.6 5 SWT 94 0 dBm	2DH5	5_Ant1_	High_2 Mode_Au 	1] 1]		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
	N 2022 03:51:3	4 • Offset 9.8 • SWT 94	2DH5	5_Ant1_	High_2 Mode_Au 	1] 1]		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
	N 2022 03:51:3	4 0 Offset 9.6 5 SWT 94 0 dBm	2DH5	5_Ant1_	High_2 Mode_Au 	1] 1]		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
	N 2022 03:51:3	4 0 Offset 9.6 5 SWT 94 0 dBm	2DH5	5_Ant1_	High_2 Mode_Au 	1] 1]		2.4	-1.21 dE 79900 G 51.71 dE	m Hz	
	N 2022 03:51:3	4 0 Offset 9.6 5 SWT 94 0 dBm	2DH5	5_Ant1	High_2 Mode Au M1[ 	1] 1]		2.4 - 2.4	-1.21 dE 79900 G 51.71 dE 83500 G	m 12 12	
	N 2022 03:51:3	4 0 Offset 9.6 5 SWT 94 0 dBm	2DH5	5_Ant1_	High_2 Mode Au M1[ 	1] 1]		2.4 - 2.4	-1.21 dE 79900 G 51.71 dE	m 12 12	
	N 2022 03:51:3	4 1 Offset 9.6 5 SWT 94 dBm dBm x-volue	2DH5	5_Ant1_ BW 100 kHz BW 300 kHz BW 300 kHz BW 300 kHz G91 pt Y-value	High_2 Mode Au M1[ M2[	to FFT 1] 1]		2.4 - 2.4	- 1.21 dE 79900 G 51.71 dE 83500 G	m 12 12	
	v 2022 03:51:3 rel 20:00 dBm v v M1 D1 -21:210 01 -21:210 7 GHz	4 1 Offset 9.8 5 SWT 94 dBm dBm 245555000000000000000000000000000000000	2DH5 30 dB е R .8 µs е V	5_Ant1_ IBW 100 KHZ /BW 300 K	High_2 Mode Au M1[ M2[ M2[ M2[ M2[ M2[ M2[ M2[ M2[ M2[ M2	to FFT 1] 1]		2.4 2.4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- 1.21 dE 79900 G 51.71 dE 83500 G	m 12 12	
	N 2022 03:51:3	4 0 Offset 9, 5 WT 94 dBm 4 4 4 4 4 4 4 4 5 WT 94 4 5 4 5 4 5 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	2DH5	5_Ant1_ BW 100 kHz BW 300 kHz BW 300 kHz BW 300 kHz G91 pt Y-value	High_2 Mode_Au M1[ M2[ M2[ M2[ M2[ M2[ M2[ M2[ M2[ M2[ M2	to FFT 1] 1]		2.4 2.4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	- 1.21 dE 79900 G 51.71 dE 83500 G	m 12 12	







				3DH	5_Ant1	Low 2	2402				
	Spectrun	n								ſ	
	Att Count 300	I 20.00 dBn 30 dE /300			RBW 100 kHz VBW 300 kHz		uto FFT				_
•	1Pk View				1 1	MI	[1]			-1.51 d	Bm
	10 dBm						[1]		2.40	18560 C 50.71 di 00000 C	Hz Bm
c	0 dBm					1			2,70	M.	
-	-10 dBm									$\square$	-
-	-20 dBm	D1 -21.510	dBm								
-	-30 dBm										_
	-40 dBm			-							_
	-50.dBm	te to build	M4		mound		In an and a	MB	month day	12/1	a.
	-60 dBm	horadala	Warne	and a same	al norre ward	and the second	and the second	and the second	- mayne		
-	-70 dBm			1							
	Start 2.35	GHz		1	691	pts			Stop 2	2.405 GF	Ηz
	larker Type Re		X-value	e	Y-value	Funct	ion	Func	tion Result		
-	M1 M2	1	2	56 GHz 2.4 GHz	-1.51 dBr -50.71 dBr	n					
	M3	1	2.	39 GHz	-52.44 dBr	n					
			2.36139	86 GHz	-48,93 dBr						
Da	M4	1	2.36139	86 GHz	-48.93 dBr	n					
3	M4 ate: 21.JUN: Spectrun Ref Leve Att	1 2022 03:58:3 n l 20.00 dBn 30 dF	13 n Offset 9	3DH: 9.80 dB •	-48.93 der 5_Ant1_ RBW 100 kH2 VBW 300 kH2	_High_				[	
(3	M4 ate: 21.JUN. Spectrum Ref Leve	1 2022 03:58:3 n l 20.00 dBn 30 dF	13 n Offset 9	3DH: 9.80 dB •	5_Ant1_	_High	uto FFT				
(*   	M4 ate: 21.JUN Spectrum Ref Leve Att Count 300 1Pk View	1 2022 03:58:3 n l 20.00 dBn 30 dF	13 n Offset 9	3DH: 9.80 dB •	5_Ant1_	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di	Bm iHz
د ۱ ۱	M4 ate: 21.JUN. Spectrum Ref Leve Att Count 300 91Pk View 10 dBm-	1 2022 03:58:3 n l 20.00 dBn 30 dF	13 n Offset 9	3DH: 9.80 dB •	5_Ant1_	_High <sup>2</sup> Mode A M1	uto FFT		2.4	-0.34 d	Bm iHz Bm
्र । । ।	M4 ste: 21.JUN. Spectrum Ref Leve Att Count 300 )1Pk View 10 dBm	1 2022 03:58:3 n 1 20.00 dBn 30 db	13 n Offset 9	3DH: 9.80 dB •	5_Ant1_	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di 51.21 di	Bm iHz Bm
3 - -	M4 ate: 21.JUN: Spectrum Ref Leve Att Count 300 91Pk View 10 dBm	1 2022 03:58:3 n 1 20.00 dBn 30 db	13 n Offset 9	3DH: 9.80 dB •	5_Ant1_	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di 51.21 di	Bm iHz Bm
3 - -	M4 ste: 21.JUN. Spectrum Ref Leve Att Count 300 )1Pk View 10 dBm	1 2022 03:58:3 n 1 20.00 dBn 30 db	n Offset s	3DH: 9.80 dB •	5_Ant1_	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di 51.21 di	Bm iHz Bm
- - -	M4 ate: 21.JUN: Spectrum Ref Leve Att Count 300 91Pk View 10 dBm	1 2022 03:58:3 1 20.00 dBm 30 df //300	n Offset s	3DH: 9.80 dB •	5_Ant1_	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di 51.21 di	Bm iHz Bm
2 - - -	M4 ate: 21.JUN. Spectrum Ref Leve Att Count 300 1Pk View 10 dBm	1 2022 03:58:3 1 20.00 dBm 30 df //300	n Offset s	3DH: 9.80 dB •	5_Ant1_ RBW 100 kHz VBW 300 kHz	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di 51.21 di	Bm iHz Bm
2 2 2 - - -	M4 ate: 21.JUN: Spectrum Ref Leve Att Count 300 91Pk View 10 dBm	1 2022 03:58:3 1 20.00 dBm 30 df //300	n Offset s	3DH: 9.80 dB •	5_Ant1_ RBW 100 kHz VBW 300 kHz	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 di 51.21 di	Bm iHz Bm iHz
( )   	M4           ate: 21.JUN.           Spectrum           Ref Leve           Att           Count 300           1Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 2022 03:58:3 n l 20.00 dBn /300 M1 01 -20.340	n Offset s	3DH: 9.80 dB • 94.8 µs •	5_Ant1_ RBW 100 kHz VBW 300 kHz	_High <sup>2</sup> Mode A M1	uto FFT [1]	and the second se	2.4	-0.34 di 79780 d 51.21 di 83500 d	Bm iHz Bm iHz
	M4           ate: 21.JUN.           Spectrum           Ref Leve           Att           Count 300           PIPk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm	1 2022 03:58:3 n l 20.00 dBn /300 M1 01 -20.340	n Offset s	3DH: 9.80 dB • 94.8 µs •	5_Ant1_ RBW 100 kHz VBW 300 kHz	_High <sup>2</sup> Mode A M1	uto FFT [1]	and the second se	2.4	-0.34 di 79780 d 51.21 di 83500 d	Bm iHz Bm iHz
	M4           ate: 21.JUN.           Spectrum           Ref Leve           Att           Count 300           1Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 2022 03:58:3 n l 20.00 dBn /300 M1 01 -20.340	n Offset s	3DH: 9.80 dB • 94.8 µs •	5_Ant1_ RBW 100 kHz VBW 300 kHz	_High <sup>2</sup> Mode A M1	uto FFT [1]		2.4	-0.34 di 79780 d 51.21 di 83500 d	Bm iHz Bm iHz
	M4           ate: 21.JUN.           Ref Leve           Att           Count 300           PIPk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -60 dBm           -70 dBm           -70 dBm           Start 2.47	1 2022 03:58:3 202 03:58:3 1 2022 03:58:3 1 2022 03:58:3 1 1 2022 03:58:3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	n Offset s	3DH: 9.80 dB • 94.8 µs •	5_Ant1_ RBW 100 kHz VBW 300 kHz	_High 2 Mode A M11 M2	uto FFT [1]		2.4 - 2.4	-0.34 di 79780 d 51.21 di 83500 d	Bm Hz Bm Hz
	M4           ate: 21.JUN.           Spectrum           Ref Leve           Att           Count 300           1Pk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm           -70 dBm           -70 dBm           -80 dBm           -70 dBm           -70 dBm           -70 dBm           -70 dBm	1 2022 03:56:3 1 20.00 dBn 30 df /300 M1 01 -20.340 M2 M2 M2 GHz	a Offset : a SWT : dBm	3DH:	5 Ant1 RBW 100 HHz VBW 300 Hz 100 H	High Mode A M1 M2	uto FFT		2.4 - 2.4 - 	-0.34 dd 79780 C 51.21 dd 83500 C	Bm Hz Bm Hz
	M4           ate: 21.JUN.           Spectrum           Ref Leve           Att           Count 300           IPk View           10 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 gli@maxwe           -60 dBm           -70 dBm           70 dBm           Start 2.47           Type Re           M1	1 2022 03:58:3 2022 03:58:3 2022 03:58:3 2022 03:58:3 202 202 202 202 202 202 202 202 202 20	Gen X-value 2.479	3DH: 9.80 dB • 94.8 µs • 94.8 µs •	5_Ant1_ RBW 100 HHz vBW 300 HHz 300 HHz M4 M4 691 	High Main Main Main Main Main Main Main Main	uto FFT		2.4 - 2.4	-0.34 dd 79780 C 51.21 dd 83500 C	Bm Hz Bm Hz
	M4           ate: 21.JUN.           Spectrum           Ref Leve           Att           Count 300           D dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -70 dBm           -70 dBm           Start 2.47           Tarker           Type   Re	1 2022 03:56:3 a 1 2022 03:56:3 a 1 20:00 dBn 3:0 d 3:0 d 3:0 d 3:0 d 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 n Offset 5 3 SWT 5 dBm vd	3DH: 9.80 dB • 94.8 µs • 94.8	5_Ant1_ RBW 100 kHz VBW 300 kHz ANT ANT ANT ANT ANT ANT ANT ANT	High Mode A M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	uto FFT		2.4 - 2.4 - 	-0.34 dd 79780 C 51.21 dd 83500 C	Bm Hz Bm Hz



Spectrum         The full 20.00 dbm         Offset 9.04 db = RBW 100 Hz         Made Auto FFT           Court 300/200         9.07 fs.8 µ.8 × VBW 300 Hz         Made Auto FFT           0 dbm         1.49 dbm         1.49 dbm           10 dbm         1.249 dbm         1.249 dbm           0 dbm         1.249 dbm         1.249 dbm           0 dbm         1.249 dbm         1.249 dbm           0 dbm         1.249 dbm         1.249 dbm           -0 dbm         1.240 dbm         1.249 dbm           -0 dbm         1.21.490 dbm         1.21.490 dbm           -0 dbm         1.21.491 dbm         1.21.490 dbm           -0 dbm         1.21.491 dbm         1.21.49 dbm           -0 dbm         1.21.491			3	DH5	Ant1 Lov	v_Hop_24	02		
Ref Level 20.01 dim         Offset 0.84 dit = RBW 100 kitz         Nade Auto FFT           Court 300/300         BWT 75.8 µs = VBW 300 kitz         Made Auto FFT           Court 300/300         BBT         MI[1]         2.40 B550 GHz           0 dim         MI[1]         2.40 B550 GHz         51.13 dim           -10 dim         MI[1]         2.40 B550 GHz         51.13 dim           -20 dim         0 -21.490 dim         MI[1]         2.40 B55 GHz           -30 dim         MI[1]         2.40 B55 GHz         62           -30 dim         MI[1]         2.40 B55 GHz         62           -40 dim         MI[1]         2.40 B55 GHz         62           -60 dim         MI[1]         2.40 B55 GHz         62           -60 dim         MI[1]         2.40 B55 GHz         69 Jits           -70 dim         MI[1]         2.40 B55 GHz         69 Jits           Narker         Type Ref Trc         Y-value         Function Result           MI         1         2.30 GHz         -51.13 dim	Spec	trum		_					
Count 300/300              •••••••••••••••••••••••••	Ref L	Level 20.00 d							(4
Bit Pk View         MI[1]         -1.49 dim           10 dim         MI[1]         2.401850 dHz           0 dim         MI[1]         2.4000000 GHz           0 dim         MI[1]         2.4000000 GHz           -0 dim         MI[1]         4.40           -0 dim         MI[1]         2.4000000 GHz           -0 dim         MI[1]         2.4000000 GHz           -0 dim         MI[1]         2.4000 GHz           -0 dim         MI[1]         2.4000000 GHz           -0 dim         MI[1]         2.4000000 GHz           -0 dim         MI[1]         2.4000000 GHz           Mil         1         2.4000000 GHz           Mil         1         2.4000000 GHz           MI[1]         2.4000000 GHz         HI[1]           MI[1]         2.4000000 GHz           Mil         1         2.4000000 GHz           MI[1]         2.4000000 GHz         HI[1]           MI[1]         2.40000000 GHz         HI[1]           MI[1]         2.4000000 GHz			dB SWT 7	75.8 μs 👄 ۱	VBW 300 kHz	Mode Auto FFT			
10 dbm         2.401850 dbm           0 dbm         2.400009 GHz           -10 dbm         2.400009 GHz           -20 dbm         01 21.490 dbm           -30 dbm         01 21.490 dbm           -40 dbm         01 21.490 dbm           -30 dbm         01 21.490 dbm           -40 dbm         01 21.490 dbm           -50 dbm         01 21.490 dbm           -70 dbm         01 21.490 dbm           -70 dbm         01 2.490 dbm           Mail 1 2.40186 GH214.140 dbm         10 2.40186 GH214.140 dbm           Mail 1 2.40186 GH214.140 dbm         10 dbm           Mail 1 2.40186 GH214.140 dbm         10 2.40186 GH214.140 dbm           Mail 1 2.40186 GH214.140 dbm         10 dbm           Mail 1 2.40186 GH214.140 dbm         10 dbm           Mail 1 2.40186 GH214.140 dbm         10 2.40186 GH214.140 dbm									
JJ dem       M2[1]      5.1.3 dem         0 dem       2.400000       2.400000         -10 dem       -2.40000       -2.40000         -20 dem       -2.40000       -2.40000         -20 dem       -2.40000       -2.40000         -20 dem       -2.40000       -2.40000         -20 dem       -2.4000       -2.4000         -20 dem       -2.4012       -5.1.600m         Marker       -1.490 dem       -1.490 dem         M2 1       2.401256 GHz       -1.410 dem         Date: 21.UN 2022 0414:10       -2.4012       -5.1.60 dem         M2 (2.000         Spectrum       -2.40125         Ref Level 2.000 dem       Offset 9.80 de RBW 100 k/z         -2.1.1 N 2022 0414:10       -2.472800 GHz         0 dem       -2.427800 GHz         -30 dem	. 18					M1[1]			
0 dBm -10 dBm -20 dBm -01 -21.490 dBm -30 dBm -40 dBm -40 dBm -40 dBm -70 d	10 dBn	n				M2[1]		-5	51.13 dBm
-20 dBm       01 -21.400 dBm       01 -21.400 dBm         -30 dBm       -01 -21.400 dBm       01 -21.400 dBm         -30 dBm       -01 -21.400 dBm       01 -21.400 dBm         -60 dBm       -01 -21.400 dBm       01 -21.400 dBm         -60 dBm       -01 -21.400 dBm       01 -21.400 dBm         -70 dBm       -01 -21.400 dBm       01 -21.400 dBm         -70 dBm       -01 -21.400 dBm       Function Function Result         M1       1       2.4056 GHz       -1.400 dBm         M1       2.402.4012       -51.13 dBm       10 -20.300 GHz         M41       2.303 GHz       -51.66 dBm       -50.65 dBm         M41       2.303 GHz       -47.61.66 dBm       -50.65 dBm         M41       1       2.303 GHz       -51.66 dBm         M41       1       2.303 GHz       -51.66 dBm         M41       1       2.303 GHz       -51.66 dBm         M41       1       2.303 GHz       -50.66 dBm         M21       -2.303 GHz       -50.61 GB       -50.72 GBm         M21       -30.300 GHz       M111       -0.330 GBm         M41       -01 -20.350 dBm       -20.350 dBm       -21.14 dBm         -30 dBm       -10 -20.350 dBm       -	0 dBm-					1	1	2,400	JULIU GH2
-30 dBm -40 dBm -41 2.40 185 GHz -51.33 dBm -41 2.40 185 GHz -1.49 dBm -47.81 dBm -47.	-10 dB	m	-						Arwy
-30 dBm -40 dBm -41 2.40 185 GHz -51.33 dBm -41 2.40 185 GHz -1.49 dBm -47.81 dBm -47.									1
-40 dBm		01 -21.4	190 dBm		8		-		1
Signed decared record are considered and an analysis of the second are second and the second are second are second and the second are second a	-30 dB	m	3	-	C 0		8		
SQL480 pc plane provide and the construction of the constructio	-40 dB	m		-		Md			-
Stort 2.35 GHz         Stop 2.405 GHz           Marker         Yype Ref Trc         X-value         Function         Function Result           Mil         1         2.40 GHz         691 pts         Stop 2.405 GHz           Marker         Yype Ref Trc         X-value         Function         Function Result           Mil         1         2.40 Hz         -51.36 dbm         Get High Hop 2480           Date: 21 JUN 2022 04:14:10         Spectrum         C         Att 30 db SWT 94.8 µs w VBW 300 kHz         Mode Auto FFT           Count 300/300         Offset 9.80 db w RBW 100 kHz         Mode Auto FFT         Count 300/300         -51.14 dbm           0 dbm         Mil         N2(1)         -0.35 dbm         -0.35 dbm         -0.35 dbm           0 dbm         Mil         N2(1)         -0.35 dbm         -0.35 dbm         -0.35 dbm           0 dbm         Mil         Mil         N2(1)         -0.35 dbm         -0.35 dbm           0 dbm         Mil         Mil         N2(1)         -0.35 dbm         -0.35 dbm           0 dbm         Mil         N2(1)         -0.35 dbm         -0.35 dbm         -0.35 dbm           0 dbm         Mil         N2(1)         -0.35 dbm         -0.35 dbm         -0.35 dbm	x-50-d8	man and and	and the as when the	No. A o B But B ?	The second late	and the manhand and have	M3	at at much Mak	12
-70 d8m       691 pts       Stop 2.405 GHz         Marker       Type       Ref       Trc       X-value       -1.49 d8m       Function       Function Result         Mil       1       2.401866 GHz       -1.49 d8m       Function       Function Result         Mil       1       2.401866 GHz       -1.49 d8m       Function       Function Result         Mil       1       2.39 GHz       -51.66 d8m       Function       Function Result         Mil       1       2.39 GHz       -51.66 d8m       Function       Function Result         Marker       30 d8       Offset 9.80 d8       RBW 100 KHz       Att       30 d8       Spectrum         Ref Level 20.00 d8m       Offset 9.80 d8       RBW 100 KHz       Marker       Marker       -51.14 d8m         10 d8m       Mil       Mil       Mil       2.498300 GHz       -51.14 d8m         0 d8m       Mil       Mil       Mil       2.498300 GHz       -51.14 d8m         0 d8m       Mil       Mil       Mil       Mil       -51.14 d8m       -51.14 d8m         0 d8m       Mil       Mil       Mil       Mil       -61.91 d9m       -61.91 d9m         0 d8m       Mil       Mil       Mil			4.44		1		and the second		
Start 2.35 GHz         691 pts         Stop 2.405 GHz           Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.4 GHz         -1.49 dBm	-6U dB	m							
Marker         Yupe         Ref         Tro.         X-volue         Y-volue         Function         Function Result           M1         1         2.4 GHz         -1.49 dem	-70 dB	m	-						
Marker         Yupe         Ref         Tro.         X-volue         Y-volue         Function         Function Result           M1         1         2.4 GHz         -1.49 dem	St aut	2.25.0112			601 ptc	2	-	Stop 0	405 0115
M1       1       2.401856 GHz      1.49 dBm         M3       1       2.39 GHz       -51.66 dBm         M4       1       2.3857101 GHz       -47.81 dBm         Date: 21, JLN 2022 04:14:10       3DH5_Ant1_High_Hop_2480       The second secon					091 hts			Stup 2	.403 GHZ
M2         1         2.4 GHz         -51.13 dBm           M4         1         2.3857101 GHz         -51.66 dBm           M4         1         2.3857101 GHz         -47.81 dBm           Date: 21.J.N 2022 04:14:10           Spectrum           Colspan="2">Colspan="2"         Colspan="2"	Type	Ref Trc	X-value		Y-value	Function	Funct	tion Result	2
M4         1         2.3857101 GHz         -47.81 dBm           Date: 21.JLN 2022 04:14:10           Spectrum           Ref Level 20.00 dBm         Offset 9.80 dB         RBW 100 kHz           Att         30 dB         SWT 94.8 µs         VBW 300 kHz           Mode Auto FFT           Count 300/300           M1[1]         -0.35 dBm           10 dBm         M12[1]         -31.14 dBm           0 dBm         M12[1]         -31.14 dBm           -20. dBm         01 -20.350 dBm           -30 dBm         M12           -40 dBm         M2           -70 dBm         Stort 2.47 GHz           50 dBm         Function Function Result           7/1 Pipe         Ref To 2.47585 GHz           -70 dBm         Stort 2.47 GHz           51 Lt dBm         M2           M2         1           247585 GHz         -0.35 dBm           -70 dBm         Stort 2.47585 GHz           M2         1	M2	2 1	2	.4 GHz	-51.13 dBm				
Date: 21.JJN 2022 04:14:10         Spectrum         Ref Level 20.00 dBm       Offset 9.80 db @ RBW 100 kHz         Mode Auto FFT         Count 300/300         @ IPk View       M1[1]       -0.35 dBm         0 dBm       M2[1]       -51.14 dBm         0 dBm       M2[1]       -51.14 dBm         -20.dBm       01 -20.350 dBm       -0.35 dBm         -30 dBm       M2       M4         -50 dBm       -0.35 dBm       -0.35 dBm         -30 dBm       -0.35 dBm       -0.35 dBm         -70 dBm       -0.35 dBm       -0.35 dBm         Marker       -0.35 dBm       -0.35 dBm         M2       1       2.47585 GHz       -0.35 dBm									
3DH5_Ant1_High_Hop_2480           Spectrum           Ref Level 20.00 dBm Offset 9.80 dB @ RBW 100 kHz           Att 30 dB SWT 94.8 µs @ VBW 300 kHz           Mode Auto FFT           Count 300/300           PIR View           MI101           0.350 dBm           0 dBm           MI2(1)           -0.350 dBm           -									
Spectrum         Image: Constraint of the second secon	Late: 21.	.JUN.2022 04:1-	4:10						
Spectrum         Image: Constraint of the second secon									
Ref Level 20.00 dBm         Offset 9.80 dB         RBW 100 kHz           Att         30 dB         SWT         94.8 µs         VBW 300 kHz         Mode Auto FFT           Count 300/300         ● IPk View         M1[1]         -0.35 dBm         -0.35 dBm           10 dBm         M1[1]         -9.35 dBm         -9.114 dBm         M1[1]         -9.350 dBm           0 dBm         M1         M2[1]         -51.14 dBm         -30.350 dBm         -30 dBm         -40 dBm         -50 dBm				DH5_/	Ant'i_Higi	n_нор_24	-80		
Att         30 dB         SWT         94.8 µs         VBW         300 kHz         Mode Auto FFT           Count 300/300         Image: Start 200/300		trum							(
Count 300/300 <ul> <li>Pik View</li> <li>M1[1]</li> <li>-0.35 dBm</li> <li>2.475850 dHz</li> <li>M2[1]</li> <li>-5.1.14 dBm</li> </ul> 0 dBm         M2[1]         -5.1.14 dBm           -20 dBm         01 -20.350 dBm         -24.493500 GHz           -20 dBm         01 -20.350 dBm         -20.48 m         -20.48 m           -30 dBm         -30 dBm         -30 dBm         -30 dBm           -40 dBm         -40 dBm         -40 dBm         -40 dBm         -40 dBm           -50 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -50 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -70 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -70 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -70 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           -70 dBm         -50 dBm         -50 dBm         -50 dBm         -50 dBm           M2         1         2.47585 GHz         -0.35 dBm         -0.35 dBm           M2         1         2.4935 GHz         -50.36 dBm         -50.36 dBm	19470								
MI[1]         -0.35 dBm           10 dbm         2.475850 GHz           0 dbm         -51.14 dbm           0 dbm         2.493500 GHz           MI         2.493500 GHz           -20 dBm         -1 -20.350 dBm           -30 dBm         -20.350 dBm           -40 dBm         -40 dBm           -50 dBm         -90 dBm           -70 dBm         -91 pts           Stort 2.47 GHz         691 pts           Stort 2.47 GHz         691 pts           Marker         -0.35 dBm           MI         1         2.47585 GHz           MI <t< td=""><th>Ref L</th><td>Level 20.00 d</td><td>IBm Offset 9 dB SWT 9</td><td>9.80 dB 👄 I</td><td>RBW 100 kHz VBW 300 kHz</td><td>Mode Auto FET</td><td></td><td></td><td></td></t<>	Ref L	Level 20.00 d	IBm Offset 9 dB SWT 9	9.80 dB 👄 I	RBW 100 kHz VBW 300 kHz	Mode Auto FET			
10 dsm         2.475850 GHz           M1         .51.14 dbm           0 dsm         .2483500 GHz           40 dsm         .2483500 GHz           -20.48m         01 -20.350 dbm           -30 dbm	Ref L Att Count	Level 20.00 d 30 t 300/300	IBm Offset 9 dB SWT 9	9.80 dB 👄 I 94.8 µs 👄 ۱	RBW 100 kHz VBW 300 kHz	Mode Auto FFT			
M1         2.483500 GHz           0 dBm         2.483500 GHz           -20.dBm         01 -20.350 dBm           -30 dBm         -30 dBm           -40 dBm         -40 dBm           -50 dBm         -50 dBm           -70 dBm	Ref L Att Count	Level 20.00 d 30 t 300/300	IBm Offset 9 dB SWT 9	9.80 dB 👄 I 94.8 µs 🖷 Y	RBW 100 kHz VBW 300 kHz				
0 dbm         -20.48m         01         -20.350 dBm           -30 dBm         -30 dBm         -30 dBm         -30 dBm           -40 dBm         -40 dBm         -40 dBm         -40 dBm           -50 dBm         -20.350 dBm         -30 dBm         -30 dBm           -50 dBm         -20.350 dBm         -30 dBm         -30 dBm           -50 dBm         -20.350 dBm         -20.350 dBm         -30 dBm           -70 dBm         -70 dBm         -91 pts         Stop 2.55 GHz           Marker         -70 dBm         -91 pts         Stop 2.55 GHz           Marker         -11         2.47585 GHz         -0.35 dBm           M2         1         2.4935 GHz         -51.14 dBm           M3         1         2.5 GHz         -50.30 dBm	Ref L Att Count	Level 20.00 d 30 t 300/300 /iew	IBm Offset 9 dB SWT 9	9.80 dB 🕳 I 94.8 µs 🖷 Y	RBW 100 kHz VBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz
-20-dBm 01 -20.350 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70 dB	Ref I Att Count 1Pk v 10 dBn	Level 20.00 d 30 t 300/300 view n M1	IBm Offset 9 dB SWT 9	9.80 dB 🕳 I 94.8 µs 🖷 Y	RBW 100 kHz VBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz 51.14 dBm
-30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70	Ref I Att Count 1Pk v 10 dBn 0 dBm	Level 20.00 d 30 t 300/300 //ew n 	IBm Offset 9 dB SWT 9	9.80 dB 🕳 I 94.8 µs 🖶 \	RBW 100 kHz VBW 300 kHz	M1[1]	1 1	2.47	-0.35 dBm 75850 GHz 51.14 dBm
-30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70	Ref I Att Count 1Pk v 10 dBn 0 dBm	Level 20.00 d 30 t 300/300 //ew n 	IBm Offset 9 dB SWT 9	9.80 dB 🕳 I	RBW 100 kHz VBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz 51.14 dBm
H0         H2         H4           -50 dBm         -50 dBm         -50 dBm           -60 dBm         -50 dBm         -50 dBm           -70 dBm         -50 dBm         -50 dBm           Marker         -50 dBm         -50 dBm           M1         1         2.47585 GHz         -0.35 dBm           M2         1         2.4935 GHz         -51.14 dBm           M3         1         2.5 GHz         -50.30 dBm	Ref L Att Count 1PK V 10 dBm V dBm V dBm	Level 20.00 d 30 t 300/300 view m M1	dB SWT 9	9.80 dB 🕳 I	RBW 100 kHz VBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz 51.14 dBm
-50 dBm	Ref L Att Count 10 dan 0 dBm- 10 dB -20 dB	Level 20,00 d 30 t 300/300 view M1 M1 M1 M1 -20.3	dB SWT 9	9,80 dB 🖌 1 94.8 µs 🖷 ۱	RBW 100 kHz YBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz 51.14 dBm
Start 2.47 GHz         691 pts         Start 2.55 GHz           Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.47585 GHz         -0.35 dBm         Marker           M2         1         2.4935 GHz         -51.14 dBm         Marker	Ref L Att Count 10 dan 0 dBm- 10 dB -20 dB	Level 20,00 d 30 t 300/300 view M1 M1 M1 M1 -20.3	dB SWT 9	8.80 dB ● I 944.8 µs ● V	RBW 100 kHz YBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz 51.14 dBm
-60 dBm -70	Ref L Att Count 10 dBn 0 dBm 0 dBm -20 dB -30 dB	Level 20,00 d 30 t 300/300 view M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1]		2.47	-0.35 dBm 75850 GHz 51.14 dBm
Stort 2.47 GHz         691 pts         Stop 2.55 GHz           Marker         Yuge         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.47585 GHz         -0.35 dBm         -0.35 dBm         -0.35 dBm           M2         1         2.4935 GHz         -51.14 dBm         -0.35 dBm         -0.35 dBm	Ref L Att Count 10 dBn 0 dBm 40 dB -20 dB -30 dB	Level 20,00 d 30 1 300/300 View M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1] M2[1]		2.47	-0.35 dBm 5850 GHz 33500 GHz 33500 GHz
Start 2.47 GHz         691 pts         Stop 2.55 GHz           Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.47585 GHz         -0.35 dBm         -0.35 dBm         -0.35 dBm           M2         1         2.4935 GHz         -51.14 dBm         -0.35 dBm         -0.35 dBm	Ref L ▲ Att Count ■ 1Pk V 10 dBm 0 dBm 0 dBm -20 dB -30 dB -40 dB	Level 20.00 d 30 300/300 View M1 m 01 -20.3 m M1 m M1	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1] M2[1]		2.47	-0.35 dBm 5850 GHz 33500 GHz 33500 GHz
Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.47585 GHz         -0.35 dBm	Ref L ▲ Att Count ■ 1Pk V 10 dBm 0 dBm 0 dBm -20 dB -30 dB -40 dB	Level 20.00 d 30 300/300 View M1 m 01 -20.3 m M1 m M1	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1] M2[1]		2.47	-0.35 dBm 5850 GHz 33500 GHz 33500 GHz
Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.47585 GHz         -0.35 dBm	Ref L Att Count ■ 1Pk V 10 dBm 0 dBm -20 dB -30 dB -40 dB -50 dB	Level 20.00 30 30/300 view MI MI MI MI MI MI MI MI MI MI MI MI MI	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1] M2[1]		2.47	-0.35 dBm 5850 GHz 33500 GHz 33500 GHz
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.47585 GHz         -0.35 dBm	Ref L ▲ Att Count ■ 1Pk - V 10 dBm 0 dBm → 10 dB → 20 dB → 30 dB → 50 dB → 50 dB → 50 dB → 50 dB	Level 20.00 30 300/300 //ew m m m m m m m m m m m m m m m m m m m	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1] M2[1]		2.47 	-0.35 dBm 5850 GHz 31.14 dBm 33500 GHz
M1         1         2.47585 GHz         -0.35 dBm           M2         1         2.4935 GHz         -51.14 dBm           M3         1         2.5 GHz         -50.03 dBm	Ref I Att Count © 11Pk · V 10 dBm 0 dBm -20 dB -30 dB -40 dB -50 dB -70 dB Start :	Level 20.00 30 300/300 //ew MI MI MI MI MI MI MI MI MI MI	dB SWT 9	94.8 µs 🖷 ۱	VBW 300 kHz	M1[1] M2[1]		2.47 	-0.35 dBm 5850 GHz 31.14 dBm 33500 GHz
M3 1 2.5 GHz -50.03 dBm	Perf L Count ■ 1Pk V 10 dBm 0 dBm 0 dBm -20 dB -20 dB -30 dB -40 dB -50 dB -50 dB -50 dB -50 dB -50 dB -50 dB -50 dB	Level 20.00 30 30/300 //ew M1 m 01 -20.3 m M2 m 2.47 GHz r	de swr s	M3	VBW 300 kHz	M1[1] M2[1]		2.47 -2 2.44 	-0.35 dBm 5850 GHz 31.14 dBm 33500 GHz
	Ref L ■ Att Count ■ 1Pk V 10 dBm 0 dBm 0 dBm -20 dB -20 dB -30 dB -40 dB -50 dB -50 dB -50 dB -50 dB -70 dB Start : Marker Type 	Level 20.00 30 30 30 30 30 30 30 30 30	dB SWT 5	M3 orcef-polation 35 GHz	VBW 300 kHz	M1[1] M2[1]		2.47 -2 2.44 	-0.35 dBm 5850 GHz 31.14 dBm 33500 GHz
M4 1 2.503043 GHz -47.74 dBm	Ref I           Att           Count           10 dBm           0 dBm           0 dBm           -20 dB           -30 dB           -40 dB           -50 dB           -60 dB           -70 dB           Start           Marker           Type           M2	Level 20.00 30 300/300 view MI MI MI MI MI MI MI MI MI MI	dB SWT 5	M3 94.8 µs • 1 935 GH2 35 GH2 35 GH2	VBW 300 kHz	M1[1] M2[1]		2.47 -2 2.44 	-0.35 dBm 5850 GHz 31.14 dBm 33500 GHz
Date: 21.JUN.2022 04:18:30	Ref I         • Att         Count         • IPk. V         10 dBm         0 dBm         • 10 dB         -20 dB         -30 dB         -40 dB         -50 dB         -50 dB         -50 dB         -70 dB         Start :         Market         Market         • 10 dB	Level 20.00 30 300/300 view MI MI MI MI MI MI MI MI MI MI	dB SWT 5	M3 94.8 µs • 1 935 GH2 35 GH2 35 GH2	VBW 300 kHz	M1[1] M2[1]		2.47 -2 2.44 	-0.35 dBm 5850 GHz 31.14 dBm 33500 GHz



# 5.9 Spurious 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
Limit:	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.
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 $\pi$ /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Pass



