Shenzhen Huaxia Testing Technology Co., Ltd.



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

 Telephone:
 +86-755-26648640

 Fax:
 +86-755-26648637

 Website:
 www.cqa-cert.com

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

Test Report

Report No. : Applicant:	CQASZ20220300437E-01 Shenzhen Inateck Technology Co., Ltd.		
Address of Applicant:	Rm. 2507, Bldg. 11, TianAn Cloud Park, Bantian Street, Longgang District, Shenzhen		
Equipment Under Test (EUT):		
Product:	Scanner		
Model No.:	BCST-43		
Test Model No.:	BCST-43		
Brand Name:	Inateck		
FCC ID:	2A2T9-BCST43		
Standards:	47 CFR Part 15, Subpart C		
Date of Receipt:	2022-03-24		
Date of Test:	2022-03-24 to 2022-04-22		
Date of Issue:	2022-05-25		
Test Result :	PASS*		

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

lewis ZhOU (Lewis Zhou) Tested By: K. Liao Reviewed By: (KLiao) 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
CQASZ20220300437E-01	Rev.01	Initial report	2022-05-25



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



3 Contents

1 VERSION	2
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	
4.2 GENERAL DESCRIPTION OF EUT	
4.3 Additional Instructions	
4.4 Test Environment	
4.5 DESCRIPTION OF SUPPORT UNITS	
4.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY	
4.7 TEST LOCATION	
4.8 TEST FACILITY	
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	
4.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
4.11 Equipment List	
5 TEST RESULTS AND MEASUREMENT DATA	
5.1 ANTENNA REQUIREMENT	
5.2 Conducted Emissions	
5.3 CONDUCTED PEAK OUTPUT POWER	
5.4 20DB Occupy Bandwidth	
5.5 CARRIER FREQUENCIES SEPARATION	
5.6 HOPPING CHANNEL NUMBER	
5.7 DWELL TIME	
5.8 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
5.9 Spurious RF Conducted Emissions	
5.10 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM	
5.11 RADIATED SPURIOUS EMISSION & RESTRICTED BANDS	
5.11.1 Radiated Emission below 1GHz	
5.11.2 Transmitter Emission above 1GHz	
6 PHOTOGRAPHS - EUT TEST SETUP	
6.1 RADIATED EMISSION	81
6.2 CONDUCTED EMISSION	
7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	83



4 General Information

4.1 Client Information

Applicant:	Shenzhen Inateck Technology Co., Ltd.		
Address of Applicant:	Rm. 2507, Bldg. 11, TianAn Cloud Park, Bantian Street, Longgang District, Shenzhen		
Manufacturer:	Shenzhen Lixin Technology Co., Ltd.		
Address of Manufacturer:	Tongyi Industrial Park, No. 351, Jihua Road, Longgang District, Shenzhe China		
Factory:	Shenzhen Lixin Technology Co., Ltd.		
Address of Factory:	Tongyi Industrial Park, No. 351, Jihua Road, Longgang District, Shenzhen, China		

4.2 General Description of EUT

Product Name:	Scanner
Model No.:	BCST-43
Test Model No.:	BCST-43
Trade Mark:	Inateck
Software Version:	V0.0.4
Hardware Version:	V2.0
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:	FCC_assist_1.0.2.2
Antenna Type:	Spring antenna
Antenna Gain:	1dBi
Power Supply:	Li-ion battery: DC 3.7V 1200mAh, 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:

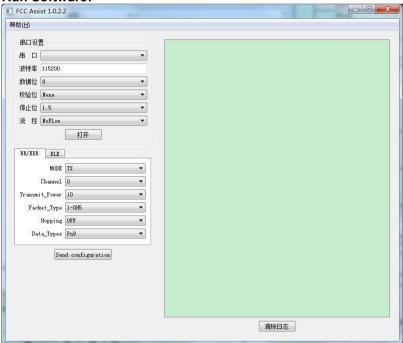
Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz



4.3 Additional Instructions

EUT Test Software 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	owest frequency, the middle frequency and	I the highest frequency keep		
transmitting of the EUT.		1		
Mode	Channel Frequency(MHz)			
	СНО	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:





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
Adapter	MI	1	1	CQA



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 ⁻⁸
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

Toot Fauinmont	Manufacturar	Madal No	Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2021/9/10	2022/9/9
Spectrum analyzer	R&S	FSU26	CQA-038	2021/9/10	2022/9/9
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2021/9/10	2022/9/9
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2021/9/10	2022/9/9
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	2021/9/10	2022/9/9
Coaxial Cable					
(Below 1GHz)	CQA	N/A	C020	2021/9/10	2022/9/9
Antenna Connector	CQA	RFC-01	CQA-080	2021/9/10	2022/9/9
RF					
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/9/10	2022/9/9
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2021/9/10	2022/9/9
EMI Test Receiver	R&S	ESPI3	CQA-013	2021/9/10	2022/9/9
LISN	R&S	ENV216	CQA-003	2021/9/10	2022/9/9
Coaxial cable	CQA	N/A	CQA-C009	2021/9/10	2022/9/9

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)
15.203 requirement:	
An intentional radiator shall	be designed to ensure that no antenna other than that furnished by the
	sed with the device. The use of a permanently attached antenna or of an
	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
electrical connector is prohib	
•	neu.
15.247(b) (4) requirement:	s limit an active in normany (b) of this continuin is based on the use of
	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
power from the intentional ra	idiator shall be reduced below the stated values in paragraphs (b)(1),
(b)(2), and (b)(3) of this sect	ion, as appropriate, by the amount in dB that the directional gain of the
antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is Spring ante	enna. The best case gain of the antenna is 1 dBi.





5.2 Conducted Emissions

 Conducted Emissio	5115		
Test Requirement:	47 CFR Part 15C Section 15.2	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 logarithn	n of the frequency.	
Test Procedure:	 The mains terminal disturbation of the EUT was connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Liexceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal grade on the tell shall be 0.4 m for the EUT shall be 0.4 m for the EUT shall be 0.4 m for the EUT and associated ergonal terms and all of the grade on the closest points the EUT and associated ergonal terms and all of the in ANSI C63.10: 2013 on control on top of the grade on the terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in ANSI C63.10: 2013 on control on terms and all of the in	b AC power source thro etwork) which provides bles of all other units of SN 2, which was bonde he way as the LISN 1 for et outlet strip was used ISN provided the rating ced upon a non-metalling of floor-standing ar round reference plane, th a vertical ground ref from the vertical ground plane was bonded to the 1 was placed 0.8 m from to a ground reference und reference plane. The of the LISN 1 and the quipment was at least of the mission, the relative terface cables must be	bugh a LISN 1 (Line a $30\Omega/50\mu$ H + 5Ω linear 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 was erence plane. The rear d reference plane. The rear d reference plane. The e horizontal ground om the boundary of the e plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. re positions of
Test Setup:	Shielding Room	AE <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u> <u>B</u>	Test Receiver

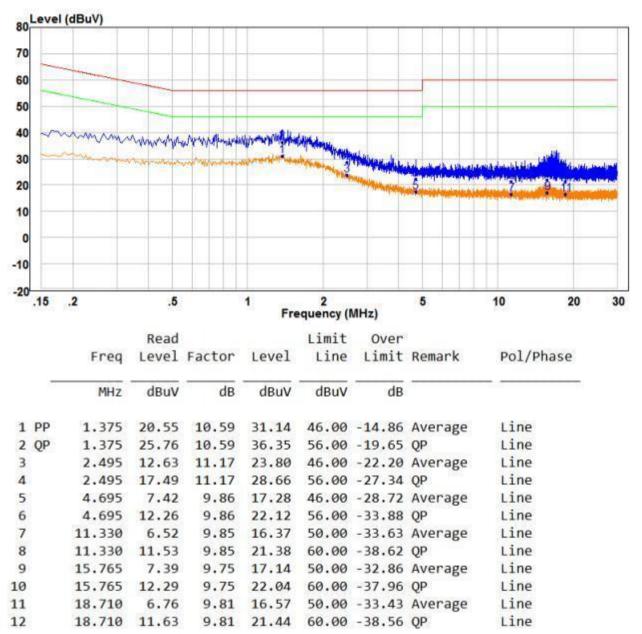


Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of
	data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in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



Measurement Data

Live line:

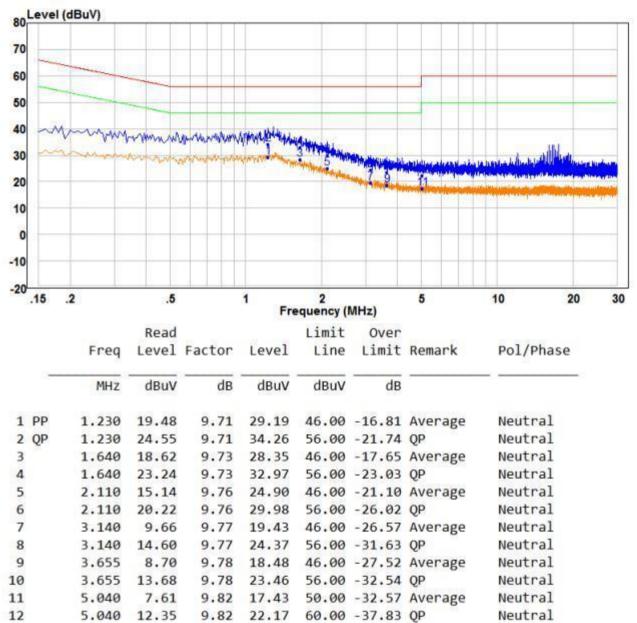


Remark:

- 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.



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 F.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	1.8	21.00	Pass			
Middle	1.77	21.00	Pass			
Highest	1.61	21.00	Pass			
	π/4DQPSK m	ode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	1.66	21.00	Pass			
Middle	1.54	21.00	Pass			
Highest	1.52	21.00	Pass			
	8DPSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	1.66	21.00	Pass			
Middle	1.62	21.00	Pass			
Highest	1.57	21.00	Pass			



Test plot as follows:

			DH5_Ant				
Spectru	m			_		ſ	
Ref Lev	el 30.00 dBm C	Offset 9.84 dB 🖷	RBW 3 MHz				<u> </u>
Att Count 10	40 dB S	SWT 1.3 µs 🖷	BW 10 MHz	Mode Auto FFT			
1Pk View							
				M1[1]		1.80 dE 2.40172030 G	
20 dBm-					T - T	2.40172030 G	12
10 dBm							
			M1				
0 dBm-							-
-10 dBm-							
-10 dBm-							
-20 dBm—							
-30 dBm—							-
-40 dBm—			8				-
-50 dBm-							
-50 uBm							
-60 dBm			-				-
CF 2.402	GHz		1001 p	te		Span 8.0 MH	
Date: 22.APF	R.2022 05:20:28						<u>z</u>
	7.2022 05:20:28		DH5_Ant				_
Spectru Ref Lev	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441			z ,
Spectru Ref Lev	R 2022 05:20:28	Offset 9.80 dB	DH5_Ant				_
Spectru Ref Lev	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		[
Spectru Ref Lev Att Count 10	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441		1.77 dE	
Spectru Ref Lev Att Count 10	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT	+ +	[
Spectru Ref Lev Att Count 10 IPk View 20 dBm-	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 IPk View	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 IPk View 20 dBm-	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm— -10 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 IPk View 20 dBm- 10 dBm- 0 dBm-	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev ▲ Att Count 10 ● IPk View 20 dBm— 10 dBm— 0 dBm— -10 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm— -10 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev ▲ Att Count 10 ● IPk View 20 dBm— 10 dBm— 0 dBm— -10 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm— -10 dBm— -20 dBm— -30 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm— -10 dBm— -20 dBm— -30 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm— -10 dBm— -20 dBm— -30 dBm— -40 dBm— -50 dBm—	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 IPk View 20 dBm 10 dBm -20 dBm -30 dBm -40 dBm	R.2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT		1.77 dE	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm 10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm	R 2022 05:20:28	Offset 9.80 dB	DH5_Ant'	1_2441 Mode Auto FFT M1[1]		1.77 de 2.44075220 ci	
Spectru Ref Lev Att Count 10 1Pk View 20 dBm— 10 dBm— -10 dBm— -20 dBm— -30 dBm— -40 dBm— -50 dBm—	R 2022 05:20:28	Offset 9.80 dB	DH5_Ant	1_2441 Mode Auto FFT M1[1]		1.77 dE	



		nt1_2480		
		11(1_2400	(777)	
Spectrum				
	Offset: 9.80 dB 👄 RBW: 3 М SWT: 1.3 µs 🖷 VBW: 10 М	HZ HZ Mode Auto FFT		
Count 100/100	en e	Anna an		
●1Pk View		M1[1]	1.61 dBm	
			2.47971230 GHz	
20 dBm-				
10 dBm				
TO UBIL	MI			
0 dBm-	MI			
-10 dBm		-		
-20 dBm	8 6			
-30 dBm				
-50 ubin				
-40 dBm				
-50 dBm				
-60 dBm	81	N		
CF 2.48 GHz	10	01 pts	Span 8.0 MHz	
Date: 22.APR.2022 05:21:51				
Spectrum	2DH5_4	Ant1_2402	(m)	
Att 40 dB	2DH5_4 Offset 9.84 dB • RBW 3 M SWT 1.3 µs • VBW 10 M	Hz		
Ref Level 30.00 dBm	Offset 9.84 dB 👄 RBW 3 M	Hz		
Ref Level 30.00 dBm Att 40 dB Count 100/100	Offset 9.84 dB 👄 RBW 3 M	Hz	1.66 dBm	
Ref Level 30.00 dBm Att 40 dB Count 100/100 1Pk View	Offset 9.84 dB 👄 RBW 3 M	Hz Hz Mode Auto FFT		
Ref Level 30.00 dBm Att 40 dB Count 100/100	Offset 9.84 dB 👄 RBW 3 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30.00 dBm Att 40 dB Count 100/100 1Pk View	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 1Pk View 20 dBm 10 dBm	Offset 9.84 dB 👄 RBW 3 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30.00 dBm Att 40 dB Count 100/100 IPk View 20 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30.00 dBm Att 40 dB Count 100/100 • 1Pk View 20 dBm 10 dBm 0 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 1Pk View 20 dBm 10 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30.00 dBm Att 40 dB Count 100/100 • 1Pk View 20 dBm 10 dBm 0 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • IPk View 20 dBm 10 dBm 0 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • IPk View 20 dBm 10 dBm 0 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • 1Pk View 20 dBm 10 dBm 0 dBm -30 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 PIk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • 1Pk View 20 dBm 10 dBm 0 dBm -30 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 PIk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Offset 9.84 d8 ● RBW 3 M SWT 1.3 µs ● VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • IPk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	Offset 9.84 dB RBW 3 M SWT 1.3 µs VBW 10 M	H2 H2 Mode Auto FFT	1.66 dBm 2.40160840 GHz	
Ref Level 30,00 dBm Att 40 dB Count 100/100 • 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm -40 dBm -50 dBm	Offset 9.84 dB RBW 3 M SWT 1.3 µs VBW 10 M	Hz Hz Mode Auto FFT	1.66 dBm	



	2DH5_Ar	nt1 2441		
Spectrum				
	ffset 9.80 dB 👄 RBW 3 MHz WT 1.3 µs 👄 VBW 10 MHz	Mode Auto FFT		
Count 100/100		Hode Addorff		
●1Pk View				
		M1[1]	1.54 dBm 2.4406 4840 GHz	
20 dBm-			211100101010	
10 dBm				
	M1			
0 dBm-			and a second	
-10 dBm		k		
-20 dBm		8 8		
470 000007148				
-30 dBm				
-40 dBm		e		
50.40				
-50 dBm		N		
-60 dBm				
-60 dBm				
CF 2.441 GHz	1001	pts	Span 8.0 MHz	
Date: 22.APR 2022 04:43:30				
	2DH5_Ar	nt1_2480		
Spectrum	2DH5_Ar	nt1_2480		
Ref Level 30.00 dBm Of	ffset 9.80 dB 🖷 RBW 3 MHz	1		
Ref Level 30.00 dBm Of Att 40 dB St		1		
Ref Level 30.00 dBm Of	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT		
Ref Level 30.00 dBm Of Att 40 dB SY Count 100/100	ffset 9.80 dB 🖷 RBW 3 MHz	1	1.52 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 P1Pk View	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT		
Ref Level 30.00 dBm Of Att 40 dB SY Count 100/100	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB S1 Count 100/100 S1 @1Pk View 20 dBm 20 dBm 20 dBm 20 dBm	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 P1Pk View	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB S1 Count 100/100 S1 @1Pk View 20 dBm 20 dBm 20 dBm 20 dBm	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB S1 Count 100/100 10 dBm 10 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB S1 Count 100/100 10 dBm 10 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB S1 Count 100/100 10 10 20 dBm 10 dBm 10 dBm 0 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB S1 Count 100/100 10 10 20 dBm 10 dBm 10 dBm 0 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB St Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -0 dBm -10 dBm -20 dBm -20 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB S1 Count 100/100 10 Bm 20 dBm 0 dBm 10 dBm 0 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 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 -0 dBm -20 dBm -30 dBm -30 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB St Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm -0 dBm -10 dBm -20 dBm -20 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB St Count 100/100 1Pk View 20 10 dBm 0 dBm 10 dBm - - -10 dBm - - -20 dBm - - -40 dBm - -	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 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 -0 dBm -20 dBm -30 dBm -30 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB St Count 100/100 10 dBm 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm -0 dBm -0 dBm -30 dBm -30 dBm -50 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm Oi Att 40 dB St Count 100/100 1Pk View 20 10 dBm 0 dBm 10 dBm - - -10 dBm - - -20 dBm - - -40 dBm - -	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB St Count 100/100 10 dBm 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm -0 dBm -0 dBm -30 dBm -30 dBm -50 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB St Count 100/100 10 dBm 10 dBm 10 dBm 0 dBm 10 dBm -10 dBm -0 dBm -0 dBm -30 dBm -30 dBm -50 dBm	ffset 9.80 d8 е RBW 3 MH3 MT 1.3 µs е VBW 10 MH2	Mode Auto FFT	1.52 dBm	
Ref Level 30.00 dBm OI Att 40 dB St Count 100/100 10 10 10 dBm 0 0 10 dBm 0 0 -10 dBm -0 0 -30 dBm -0 -0 -50 dBm -60 dBm -60 dBm	Ifset 9.80 dB RBW 3 MHz 1.3 µs VBW 10 MHz M1 M1	Mode Auto FFT	1.52 dBm 2.47966430 GHz	



	3DH5_Ant1_2402		
Consisterum			
Ref Level 30.00 dBm Offset	t 9.84 dB 👄 RBW 3 MHz		
Att 40 dB SWT	1.3 µs - VBW 10 MHz Mode Auto F	FT	
Count 100/100 Pk View			
	M1[1]	1.66 dBm	
20 dBm-		2.40163240 GHz	
20 0011			
10 dBm-			
	M1		
0 dBm			
-10 dBm			
-20 dBm			
20 40.0			
-30 dBm			
-40 dBm			
-50 dBm			
So dom			
-60 dBm			
CF 2.402 GHz	1001 pts	Span 8.0 MHz	
Date: 22.APR 2022 04:46:08			
Spectrum	3DH5_Ant1_2441		
RefLevel 30.00 dBm Offsel	3DH5_Ant1_2441 1.9 µS • VBW 10 MHz Mode Auto F	FT (
Ref Level 30.00 dBm Offset	t 9.80 dB ● RBW 3 MHz 1.3 μs ● VBW 10 MHz Mode Auto f	FFT	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	t 9.80 dB e RBW 3 MHz	FFT	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	t 9.80 dB ● RBW 3 MHz 1.3 μs ● VBW 10 MHz Mode Auto f	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 Image: Count 100/100 Image: Count 100/100 IPR View Image: Count 100/100 Image: Count 100/100 20 dBm Image: Count 100/100 Image: Count 100/100	t 9.80 dB ● RBW 3 MHz 1.3 μs ● VBW 10 MHz Mode Auto f	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 1Pk View	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 100 100 1Pk View 20 dBm 10 dBm	t 9.80 dB ● RBW 3 MHz 1.3 μs ● VBW 10 MHz Mode Auto f	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 Image: Count 100/100 Image: Count 100/100 IPR View Image: Count 100/100 Image: Count 100/100 20 dBm Image: Count 100/100 Image: Count 100/100	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 100 100 1Pk View 20 dBm 10 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 db SWT Count 100/100 1Pk View 10 1Pk View 20 dBm 10 dBm 10 dBm 0 dBm 10 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 1Pk View 1Pk View 20 dBm 10 dBm 0 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 910 dBm 10 dBm -20 dBm -20 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 db SWT Count 100/100 1Pk View 10 1Pk View 20 dBm 10 dBm 10 dBm 0 dBm 10 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 910 dBm 10 dBm -20 dBm -20 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 ds SWT Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm 0 dBm -20 dBm -30 dBm -30 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 ds SWT Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm 0 dBm -20 dBm -30 dBm -30 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 db SWT Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm 0 dBm -10 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 db SWT Count 100/100 1Pk View 10 1Pk View 10 dBm 10 dBm 10 dBm -0 dBm -20 dBm -30 dBm -40 dBm -40 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	
Ref Level 30.00 dBm Offset Att 40 db SWT Count 100/100 1Pk View 10 1Pk View 10 dBm 10 dBm 10 dBm 0 10 dBm -10 dBm	1.3 µs • VBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto 1 M1[1] M1 M1 M1	2,44066430 GHz	
Ref Level 30.00 dBm Offset Att 40 db SWT Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm 0 dBm -10 dBm	t 9.80 d8 • RBW 3 MH2 1.3 µs • VBW 10 MH2 Mode Auto f М1[1]	FFT 1.62 dBm	



3DH5_Ant1_2480
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
P1Pk View M1[1] 1.57 dBm 2.48035160 GHz
10 d8m
0 dBm
-10 dbm
-30 dBm
-40 dBm-
-50 dBm
-b0 0bm



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 shannel	20dB Occupy Bandwidth (MHz)							
Test channel	GFSK	π/4DQPSK	8DPSK					
Lowest	0.972	1.302	1.230					
Middle	0.969	1.302	1.287					
Highest	0.969	1.302	1.302					



Test plot as follows:











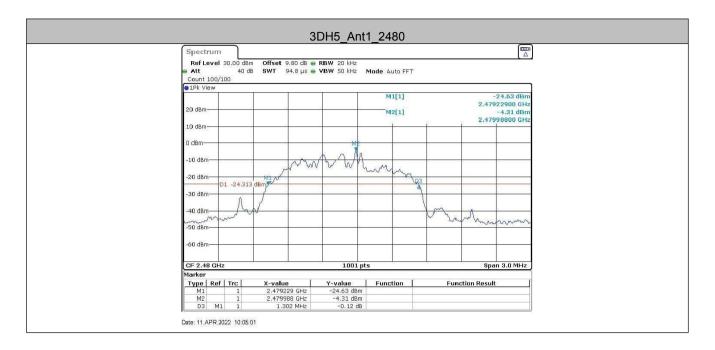














5.5 Carrier Frequencies Separation

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 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

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	0.794	≥0.648	PASS
2DH5	Ant1	Нор	1.02	≥0.868	PASS
3DH5	Ant1	Нор	1.003	≥0.868	PASS

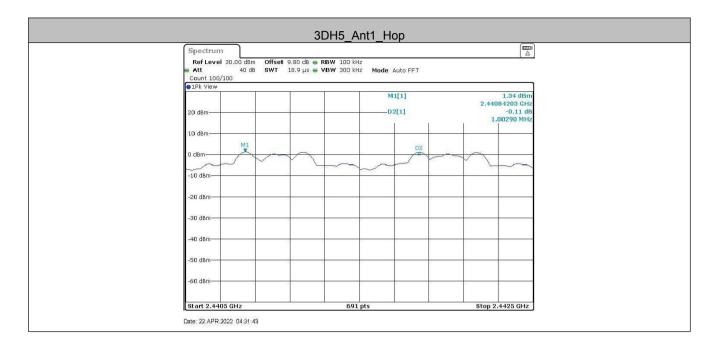
Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	0.972	≥0.648
π/4DQPSK	1.302	≥0.868
8DPSK	1.302	≥0.868



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:

	D	H5_Ant1_Hc	р			
Spectrum Ref Level 30.00 de	m Offset 9.84 dB 🖷 R	BW 100 kHz				
Att 40 IPk View			Auto FFT	7		
20 dBm	2 0		× •			
10 dBm						
י א פתי און המיד ות האות האות האות האות האות האות האות הא	hannaaaa <mark>a</mark> addaaaaa	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	I AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	7141716	<u>nhhainn</u>	1 MAA
-14 ga ^t h 1 1 1 1 1 1 1 1 1 		<u>, in the state of the state of</u>	<u>Univerie</u> r			NWW
-20 dBm						
-B0 dBm			6			
-40 dBm						and
-50 dBm						
9/00/2018/004						
-60 dBm						
Start 2.4 GHz	2000	691 pts			Stop 2.	4835 GHz
Date: 22.APR:2022 04:07	40					
	20	DH5_Ant1_H	ор			
Spectrum Ref Level 30.00 de	m Offset 9.84 dB 🖷 R	BW 100 kHz				
Att 40 Pk View			Auto FFT	x		
20 dBm	2 0 0		¢			
10 dBm						
° KRITUWWWWW	Valmanappanapp	MANANANANANA	TUTUT	nuall.	hatata/	tivial
-10 dBm		1	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	[DAMAAA]		
-20 dBm			8			
-30 dBm						
						Lun
40 dBm		-				
-40 dBm						
-50 dBm						
-50 dBm		691 pts			Stop 2.	4835 GHz



Spectrum								
Ref Level 30.		t 9.84 dB 👄						
 Att 1Pk View 	40 dB SWT	94.8 µs 🖷	VBW 300 KF	12 Mode A	uto FFT	17.		
20 dBm				8				
10.10								
10 dBm								
	MAAL HAANK	VIII III III III III III III III III II	NO AD AN AND	hillhihada	1. MANNAL LAN	ENDERDADIO	a katika kiti	11
-10 dBm	onnollovin-of	flonge (flog	allananandi	186.000000	Mannan Alha.	an working and	VON O D D D D D D D D D D D D D D D D D D	
-10 ubii								1000
-20 dBm				8				
-30 dBm								12
-40 dBm				-				hun
-50 dBm								
-60 dBm			8	6.	- <u>4</u>			
Start 2.4 GHz			691	pts		5	top 2.483	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
	Crowned Professioner Plane
	Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Tast Mardan	
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Limit:	0.4 Second
Test Results:	Pass



Measurement Data

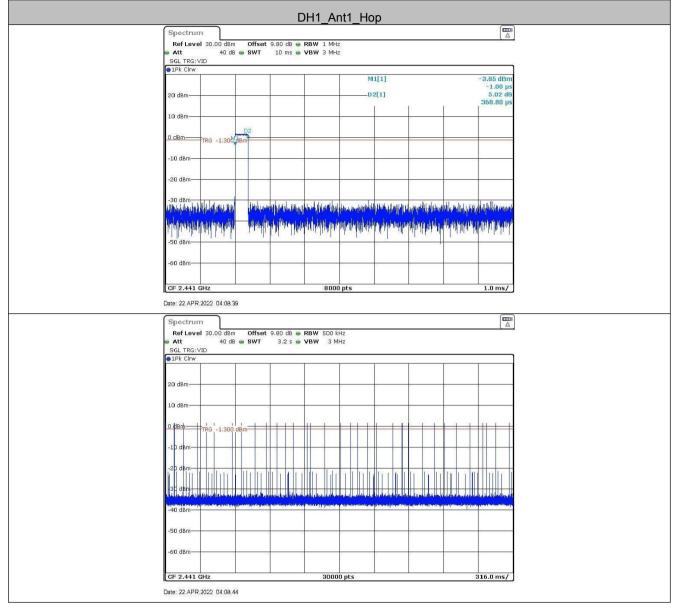
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Нор	1.61	160	0.257	≤0.4	PASS
DH5	Ant1	Нор	2.85	120	0.342	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.12	≤0.4	PASS
2DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
2DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS
3DH1	Ant1	Нор	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS

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:







				_							
				DH	13_Ai	nt1_Ho	ор			(mr)	
Spectrun Ref Leve	n I 30.00 dBn	Offset	9.80 dB	e RB	W 1 MH	z					
Att SGL TRG: \	40 df		10 ms								
●1Pk Clrw	1			_							
							41[1]			-8.50 dBm -1.00 µs	
20 dBm				2			02[1]		1	9.68 dB 1.60895 ms	
10 dBm				2							
			D2								
0 dBm-	TRG -1.300	dBm 1									
-10 dBm		<u> </u>		-			-		-		
-20 dBm											
20 0011											
-30 dBm-	hall a la dialistic				uliana	الايدا المعاد الله	الدربية الأربين	A MAR BURNER	القرواري إرواريا	adu. Jamiluar	
titler to see	indiation an deviat			rustrine an den	dala ada	na kini sak	at a sound at	and a subled	(ht manual d	in industry	
aluh lahihi mi	he willing and			lik se al i	k disk best i	Max rebuils 1	addin da ddadau	A. Data Mana	all in the second	adamilia Ma	
-50 dBm				0			00				
-60 dBm								8			
1											
CF 2.441 (GHz				800) pts				1.0 ms/	
Date: 22.APR	2022 04:11:4	9									
Spectrun	n										
Ref Leve Att	1 30.00 dBn 40 df	Offset	9.80 dB 3.2 s							dier di	
SGL TRG: V		-									
●1Pk Clrw							-	-	1		
20 dBm											
10 dBm				2		~	1	-	1		
0 dBm	TRG -1.300	dBm		-	11	1	-				
-10 dBm—											
-20 dBm	1 1 1	1			1 1		1 1.10	1 1	LT P	1. 1	
-80 dBm —											
a hautster wal	المقام والماري والمروا	a spinstin	La la la contra	-لي <mark>ليان</mark>	(light paper)	الموجود المراجع	Lost- Willingde	بالإيسار السيطي	المراسية والألبانية	all work of strengtheres	
	all same build and the same build	all to delay and set the	States States and	W HAT BOARD	ul sassi nda n	and the second secon	a manifestation of solution	an a georgeneration of	و يعدل الم الحد سار بعد الم	In succession of the second second	
-40 dBm								1	1		
-40 dBm				0			12				
				0						2	
-50 dBm	2112				9000	0 ptc		2		16.0 mc (
-50 dBm		5			3000	0 pts				316.0 ms/	





-		
	H5_Ant1_Hop	
Spectrum Ref Level 30.00 dBm Offset 9.80 dB • R	BW 1 MH2	
👄 Att 🛛 40 dB 👄 SWT 10 ms 👄 V		
SGL TRG: VID IPk Clrw		
	M1[1]	-21.30 dBm -2.25 μs
20 dBm-	D2[1]	22.53 dB 2.85036 ms
10 dBm		2.00000 1113
	D2	
0 dBm TRG -1.400 dBm		
-10 dBm		
M1		
-20 dBm		
-30 dBm		
a formation of the base of the loss while the provide of the loss of the second s	Development of the second second	and the produced and the produced
the a first of the state of the	a state of a state of a state of the state o	a de se a la calenda a de la calenda posta de la
-50 dBm	3 2 2 4 2 1	
-60 dBm		
CF 2.441 GHz	8000 pts	1.0 ms/
Date: 22.APR:2022_04:07:53		
Spectrum		
Ref Level 30.00 dBm Offset 9.80 dB 🖷 R		(\)
■ Att 40 dB ■ SWT 3.2 s ■ V SGL TRG: VID	BW 3 MHz	
IPk Clrw		
20 dBm		
10 dBm		
	e 195 9	10 11 12
0 dBm		
-10 dBm		
-20 dBm		
	وراجيا باقر والمروية أولا والمروانين فرواليا والسروانية فروانية	و اردادها و بال و الرور و الارور و بوار و و و
-50 dBm		
-60 dBm		
CF 2.441 GHz	30000 pts	316.0 ms/





			21	א נער	nt1_Ho	n		
Sp	ectrum		21			μ		
Ri Ai	ef Level 30.00	dBm Offset O dB e SWT						[Δ
	Pk Clrw	T	1					
					M1[-3.78 dBn -1.00 μ
20 (dBm-		-		D2[1]		2.20 df 376.30 µ
10 (dBm							
<u>o di</u>	IBM-TRG -1	400 dBm						
-10) dBm		-					
-20) dBm							
		il de Hauberar	u dalla sectore h	eleskil bundelije be	and a Minister	a the lateral where	addured and div	before the self bould
1. And	napalinyatinya	Tanh Albertali	aliyati yatira	Hit norther	is is Hyperia	a a pathapani	-topologican dama	Markilling and Linna
-50	dBm					1	-	
-60) dBm				6		8	j.
CF	2.441 GHz			8000	pts			1.0 ms/
Date:	22.APR.2022 04	:21:05						
Sp	ectrum							
Ri A	efLevel 30.00	dBm Offset 0 dB e SWT		RBW 500 kH VBW 3 MH				
SG	SL TRG: VID Pk Clrw							
● TH	-k Cirw		1					
20 (dBm		-					
10.	dBm							
<u>0 d</u>	Briter TRG -1	400 dBm						
-10) dBm		9 2 8 · · · A · · A					
Lton		հոր իրի	1 III III	IT THE		r Í Ír	a ha h h h	
	/ u=n	999 - 1997 -						
-30) dan	وعاد والمغاذ والمعادة	مايان ورو مداولا	a a shull yay a baddu d	ومود معالياته الدا	L. M. MAN & M. M. MAN	المالية والمحالية والمحالية	والمتلوقة والمتراجع والمراجع
-40	dBm	Janua (Astronoportury 1	and the second	and the second secon		AUDIL JANESSER	and the second of the local desired of the local desired of the local desired of the local desired of the local	a provinsi p
-50) dBm							
-60) dBm						8	
CF	2.441 GHz	1		30000	pts			316.0 ms/
Date:	22.APR.2022 04	:21:11						

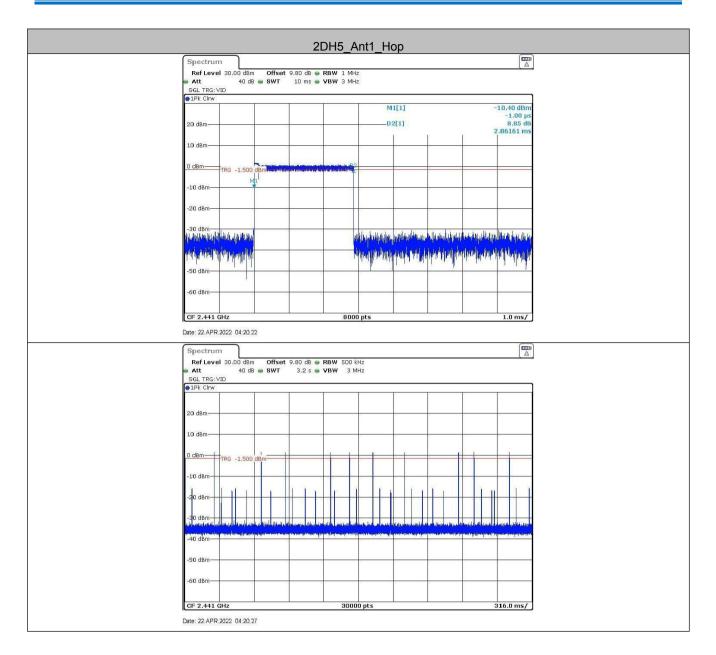




		0011	0 0			
(Con a share		2DH	3_Ant1_H	ор		
Spectrun Ref Leve	30.00 dBm Offset 9.	80 dB 🖷 RBW	1 MHz			
SGL TRG: V	40 dB 👄 SWT					
IPk Cirw						
				1[1]	-	12.80 dBm -1.00 μs
20 dBm		2	D	2[1]	1	11.62 dB .62145 ms
10 dBm				8 8		
<u>0 dBm</u>	TRG -1.400 dBm	and B2				
-10 dBm	MI					
	Ť.					
-20 dBm				-		
-30,dBm						
A state of a second state of the second state	1 al good by pr	mitphilitis		h philipping	الغدوانان واسلم العدورية المالة	rideputition
nin nin pitaini i	and she all		Histophics (Market	NT WARPHARM	Had Date in Million Mark	WHICH PLANTING
-50 dBm	la ca a		are of Lora	10 11	a lott and so	
-60 dBm		-	10	8		
CF 2.441 0	u.,		8000 pts			1.0 ms/
Date: 22.APR.			0000 pcs			1.0 11157
	_					
Spectrun						
Ref Leve Att	30.00 dBm Offset 9. 40 dB SWT	80 dB 👄 RBW 3.2 s 👄 VBW				
SGL TRG: V	D					
				-		
20 dBm					-	
10 dBm		2	~			
0 dBm	TRG -1.400 dBm					
	100 -13400 UDII					
-10 dBm						
fa f						
-10 dBm						
Ľa. ľ						
-20 dBm						
-20 dBm						
-20 dBm -30 dBm						(* gyserionje go e
-bo #Bm -bo #Bm -yo diba -40 dBm						
-20 dBm						
-20 dBm			30000 pts			16.0 ms/











	3DH1 Ant1 Hon	
Spectrum	3DH1_Ant1_Hop	
Ref Level 30.00 dBm	Offset 9.80 dB RBW 1 MHz SWT 10 ms VBW 3 MHz	
SGL TRG: VID		
●1Pk Cirw	M1[1]	-12.82 dBm
20 dBm-	D2[1]	-1.00 μs 11.40 dB
10 dBm		377.55 µs
0 dBm TRG -1.400 d	e 82 Brite	
-10 dBm1		
-20 dBm		
-30 dBm well, diput (Mitadai), mila di	الروسية والمادية والمتحد المتروفية والمتروية والمتركب والمتركب والمتروفية والمتروب المتروي والمراجع	letter process in the second the attention of the second in
Details and the second s	The shall be adore the other way in a fear this is a sufficient of the	direction particle Unit Direction Control and Alexandrian
-50 dBm	deneral contraction of the liter	and contract to a
-60 dBm		
-00 ubii		
CF 2.441 GHz	8000 pts	1.0 ms/
Date: 22.APR.2022 04:36:36		
Spectrum		
	Offset 9.80 dB • RBW 500 kHz • SWT 3.2 s • VBW 3 MHz	<u></u>
SGL TRG: VID		
20 dBm		
10 dBm		
<u>0 d8m</u> TRG - 1,400 d	Bm	
-10 dBm		
20.40-		
	A STA DE LE LA LA MARINE LA MARINE A MARINE A DIA MANA MANA MANA MANA MANA MANA MANA MA	
-40 dBm		a national second se
-50 dBm		
-60 dom		
-60 dBm		
-60 dBm CF 2.441 GHz	30000 pts	316.0 ms/

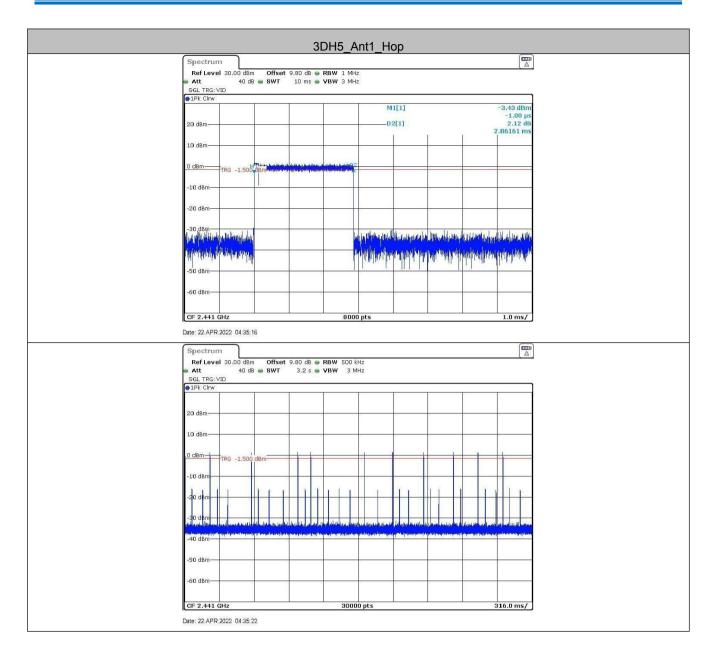




Spectrum	3DH3_Ant1_Hop	
Ref Level 30.00 dBm	Bm Offset 9.80 dB • RBW 1 MHz	
	dB • SWT 10 ms • VBW 3 MHz	
IPk Cirw		
	M1[1] -11.84 dBm -1.00 µs	
20 dBm	D2[1] 11.42 dB 1.61895 ms	
10 dBm		
0 dBm	In the second seco	
-10 dBm	MI	
-20 dBm		
-30 dBm		
and the desired and the other	in the second provide the second provides the second provide state of the second second second second second second	
	n and a state of the provided of the provided of the provided and the provided of the provided of the provided and the provided of	
-50 dBm	Late day a share one through the shift at a day of some shere of some	
-60 dBm		
CF 2.441 GHz	8000 pts 1.0 ms/	
Date: 22 APR 2022 04:38:4		
Spectrum		
Ref Level 30.00 dBm		
Att 40 dB SGL TRG: VID	am Offset 9.80 dB RBW 500 KHz dB SWT 3.2 s VBW 3 MHz	
Att 40 dB		
SGL TRG: VID 9 1Pk Clrw		
Att 40 dB SGL TRG: VID		
Att 40 dB SGL TRG: VID 9 1Pk Clrw		
• Att 40 db SGL TRG: VID • IPk Cirw 20 dBm	db SWT 3.2 s VBW 3 MH2	
● Att 40 de SGL TRG: VID ● IPk Cirw 20 d8m	db SWT 3.2 s VBW 3 MH2	
• Att 40 db SGL TRG: VID • IPk Cirw 20 dBm	db SWT 3.2 s VBW 3 MH2	
• Att 40 de SGL TRG: VID • IPK CIrw 20 dem 10 dem -10 dem -10 dem	db SWT 3.2 s VBW 3 MH2	
	db SWT 3.2 s VBW 3 MH2	
• Att 40 de SGL TRG: VID • IPK CIrw 20 dem- 10 dem- -10 dem- -10 dem-	db SWT 3.2 s VBW 3 MH2	
Att 40 de SGL TRG; VID ■ PF CIrw 20 dBm 10 dBm 10 dBm - 20 dBm 10 dBm 20 dBm 1.400 - 1.400 - 1.400 - 1.400 1.400		
• Att 40 db SGL TRG: VID • 1Pk Clrw 20 dBm 10 dBm 	db SWT 3.2 s VBW 3 MH2	
Att 40 de SGL TRG; VID ■ PF CIrw 20 dBm 10 dBm 10 dBm - 20 dBm 10 dBm 20 dBm 1.400 - 1.400 - 1.400 - 1.400 1.400		
• Att 40 db SGL TRG: VID • 1Pk Clrw 20 dBm 10 dBm -10 dBm -20 dBm -20 dBm -20 dBm -40 dBm -20 dBm -2		
Att 40 dB SGL TRG: VID SGL		
Att 40 dB SGL TRG VID 9 IPk CIrw 20 dBm 10 dBm 10 dBm 10 dBm -10 dBm 10 dBm -20 dBm 10 dBm -10 dBm 10 dBm -50 dBm -50 dBm -50 dBm -50 dBm		
Att 40 d8 SGL TRG; VID ■ IPK CIrw 20 d8m 10 d8m 0 d8m	db • SWT 3.2 s • VBW 3 MHZ	









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.: CQASZ20220300437E-01

Measurement Data

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	-4.23	-47.79	≤-24.23	PASS
		High	2480	-2.00	-46.57	≤-22	PASS
DH5	Ant1	Low	Hop_2402	-2.87	-47.62	≤-22.87	PASS
		High	Hop_2480	0.80	-47.37	≤-19.2	PASS
		Low	2402	-4.79	-46.95	≤-24.79	PASS
		High	2480	-2.06	-47.31	≤-22.06	PASS
2DH5	Ant1	Low	Hop_2402	0.81	-48.82	≤-19.19	PASS
		High	Hop 2480	-0.48	-47.9	≤-20.48	PASS
		Low	2402	-2.96	-38.11	≤-22.96	PASS
		High	2480	-0.66	-47.24	≤-20.66	PASS
3DH5	Ant1	Low	Hop 2402	-0.65	-48.31	≤-20.65	PASS
		High	Hop_2480	-0.21	-47.15	≤-20.21	PASS



Test plot as follows:

Spectrum Image: Construction Image: Construction <th< th=""><th>Spec</th><th>trum</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>ſ</th></th<>	Spec	trum										ſ		
Att 30 db SWT 75.8 µs VBW 300 kHz Node Auto FFT Count 30/200 Ink View M1[1] -4.23 dbm 10 dbm M2[1] -4.23 dbm 0 dbm M2[1] -4.23 dbm 0 dbm M2[1] -4.23 dbm 2.4000000 GHz M2[1] -5.0.24 dbm 0 dbm Int 24.230 dbm M2[1] -5.0.24 dbm 20 dbm Int 24.230 dbm M1 -5.0.24 dbm 30 dbm Int 24.230 dbm M3 M3 M4 40 dbm Int 24.230 dbm M3 M3 M3 M4 40 dbm Int 24.230 dbm G91 pts Stop 2.405 GHz M4 70 dbm Int 2.40015 GHz G91 pts Stop 2.405 GHz M4 11 2.40015 GHz G91 pts Stop 2.405 GHz M3 M4 Int 2.4001 GHz M3 Marker Type If Kef Trc Y-value Function Result M2 M2 Marker Int 2.40015 GHz H2.4000 GHz H2.4000 GHz <td< td=""><td>1000</td><td></td><td></td><td>m Offse</td><td>t 9.84 i</td><td>dB 🖷 R</td><td>RBW 100 kHz</td><td></td><td></td><td></td><td></td><td></td></td<>	1000			m Offse	t 9.84 i	dB 🖷 R	RBW 100 kHz							
IPk View Milili -4.23 dem 10 dem Milili 2.4020150 GHz -50.24 dem 0 dem Milili 2.4020150 GHz -50.24 dem -10 dem Milili 2.40200000 GHz -50.24 dem -10 dem Milili 2.40200000 GHz -50.24 dem -10 dem Milili 2.40200000 GHz -50.24 dem -10 dem Milili Milili Milili -50.24 dem -10 dem Milili -24.20 dem Milili -24.000000 GHz -10 dem Milili -24.20 dem Milili -24.00000 GHz Milili -24.02 dem Gel pts Milili Milili -24.00000 GHz Milili -20 dem -24.00000 GHz -4.22 dem -24.000000 GHz Milili -24.000000 GHz Marker -10 dem -24.0001 GHz -4.22 dem -24.000000 GHz -4.22 dem -24.000000 GHz -24.0000000 GHz -2	👄 Att		30 c						uto FFT					
ID MI[1] 4-32 dem 0 dem M2[1] 50.24 dem 0 dem 2.4020150 det/ 2.4020150 det/ -10 dem 2.4020150 det/ 2.402000 det/ -20 dem 2.4020150 det/ 2.402000 det/ -30 dem -40 dem -40 dem -40 dem -40 dem -40 dem -40 dem -40 dem -70 dem -70 dem -70 dem -70 dem -70 dem -70 dem -70 dem -70 dem -70 dem -70 dem M1 1 2.402015 det/ -70 dem -70 dem -70 dem M1 1 2.402015 det/ -70 dem -70 dem -70 dem M1 1 2.402015 det/ -70 dem -70 dem -70 dem M1 1 2.402015 det/ -70 dem -70 dem -70 dem M2 1 2.30 det/ -70 dem -70 dem -70 dem M2 1 2.30 det/ -70 dem -70 dem -70 dem 0 dem -11 2.400 det/ -70 dem -70 dem -70 a.60 m <td></td> <td></td> <td>300</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			300											
0 d8m N2[1] -50.24 d8m 0 d8m 2.4000000 d4z 10 d8m 2.4000000 d4z 20 d8m 1.40 d8m 20 d8m 1.40 d8m 40 d8m 1.41 d8m 60 d8m 1.2.4230 d8m 70 d8m 1.2.4001 d4m 40 d8m 1.2.4001 d4m 1.2.33 G4t2 691 pts Start 2.35 G4t2 691 pts Marker 1.2.4001 d4m M3 1 2.33 G4t2 M3 1 2.33 G4t2 M3 1 2.33 G4t2 M4 1 2.402 L50 L50 L4 M4 1 2.3778086 G4t2 M3 1 2.33 G4t2 M4 1 2.30 G4t2 M4 1 2.30 G4t2 M4 1 2.400 L10 L40 M3 1 2.30 G4t2 M4 1 2.400 d4m M4 1 2.400 d1m M4 1 2.400 d1m M4 1 2.400 d1m M4 1								M1	[1]		paces			
D dBm 2.4000000 GHz -10 dBm -0 -20 dBm -0 -30 dBm -0 -40 dBm -0 -50 dBm -0 -70 dBm -0 -11 2.402016 0Hz -42.23 dBm -70 dBm -0 M3 1 2.377896 0Hz -47.79 dBm -0 Date: 11 APR 2022 09:19.45 -0 DH5 Ant1_High_2480 Spectrum -1 Count 300/300 -1 0 dBm -1 10 dBm -1 10 dBm -2.000 dBm -10 dBm -2.000 dBm -10 dBm -2.000 dBm -10 dBm -2.4000 dHz -10 dBm -2.	10 dBr	m —		_				M2	[1]		2.4	+020150 (-50 24 d		
10 d8m 1 2 4 </td <td>0 d8m</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.4</td> <td>10000000</td>	0 d8m										2.4	10000000		
20 dBm 01 24.230 dBm 40 40 30 dBm 40 40 40 40 40 40 dBm 40 40 40 40 40 40 dBm 40 40 40 40 40 50 dBm 50 51 pts Stop 2.405 GHz 42 50 dBm 1 2.40015 GHz 4.23 dBm Function Function Result 41 Marker 1 2.40015 GHz -4.23 dBm 691 pts Stop 2.405 GHz Marker 1 2.40015 GHz -4.93 dBm 41 41 41 41 42.3 GHz -49.64 dBm 41 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5</td><td>Ă</td></td<>											5	Ă		
O1 24.230 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dBm -40 dBm -50 dBm -40 dBm -50 dBm -40 dBm -70 dBm -40 dBm -70 dBm -40 dBm -70 dBm -40 d2015 GHz -70 dBm -40 20215 GHz -41 1 2.4 GHz -50 24 dBm M3 1 -2.3778966 GHz -47.79 dBm M4 1 -2.3778966 GHz -47.79 dBm Date: 11 APR 2022 08-19.45 -50 24 dBm Dtfs Ant 1 -2.3778966 GHz -47.79 dBm -2.30 dBm -2.3778966 GHz -41.79 dBm -41.79 dBm -2.30 dBm -2.30 dBm -30 dB -41.95 WBW 300 KHz -41 -40 0 dBm -30 dBm -51.53 dBm -30 dBm -51.53	-10 dB	sm-												
30 dBm 40 dBm 40 dBm 40 dBm 50 dBm 40 dBm 50 dBm 50 dBm 70 dBm 50 dBm 11 2.402015 GHz 60 dBm 4.202015 GHz Marker Function Type Ref M2 1 2.402015 GHz 4.23 dBm M3 1 12 2.402015 GHz 4.41 1 2.33 GHz -60.24 dBm M4 1 2.3776986 GHz -47.79 dBm Date: 11 APR 2022 09:19:45 DH5_Ant1_High_2480 Spectrum Cm Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µS VBW 300 kHz 10 dBm M2[1] -51.03 dBm -51.03 dBm 10 dBm M2[1] -31.03 dBm -51.03 dBm 10 dBm M2[1] -51.55 dBm -51.55 dBm 20 dBm M2 M2[1] -51.55 dBm 30 dB M3 M3 M4 M4	-20 dB		N. 2000-00000	-						-		+		
40 dBm M3 M3 M3 50 dBm 50 dBm 691 pts Stop 2.405 GHz 50 dBm 691 pts Stop 2.405 GHz Narker Type [Ref Trc X-value - 40.79 dBm] Function Result M1 1 2.402015 GHz -4.23 dBm] Marker Type [Ref Trc X-value - 40.79 dBm] Function Result M2 1 2.4042 -50.24 dBm] M3 1 2.3976966 GHz -47.79 dBm] DDH5_Ant1_High_2480 Cm Cm Spectrum Cm Cm Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs WBW 300 kHz M2[1] 2.400010 GHz -51.63 dBm -51.63 dBm 10 dBm M1 2.400010 GHz -51.63 dBm 10 dBm M1 2.400010 GHz -51.63 dBm 2.00 dBm M1 2.400010 GHz -51.63 dBm 2.00 dBm M1 2.400010 GHz -51.63 dBm 2.00 dBm M1 2.4000 GHz -51.63 dBm 30 dBm M1	-20 da		01 -24,23	D dBm	-									
SQ dB/r M3 M3 M4 -00 dBm														
SDL dB/f Proceeding Proceedin	-40 dB	sm—					IV.	4		140				
66 dBm i </td <td></td> <td>un la</td> <td>mutor</td> <td>when the part</td> <td>anna.</td> <td>work</td> <td>1</td> <td>7</td> <td>wanter</td> <td>there who who</td> <td>ymander</td> <td>wit</td>		un la	mutor	when the part	anna.	work	1	7	wanter	there who who	ymander	wit		
To dBm Image: Stop 2.405 GHz Marker Function Result M1 1 2.402 GHz M3 1 2.99 GHz -4.23 dBm M3 1 2.99 GHz -4.24 dBm M3 1 2.99 GHz -4.9.64 dBm M4 1 2.3776986 GHz -47.79 dBm Date: 11.APR 2022 09.19.45 DH5_Ant1_High_2480 C Count 300/300 Spectrum Ref Level 20.00 dBm Offset 9.80 dB = RBW 100 kHz Att 30 dB SWT 94.8 µs = VBW 300 kHz M0de Auto FFT Count 300/300 ID dBm M1[1] -2.00 dBm 10 dBm M1[1] -2.00 dBm 10 dBm M1[1] -2.00 dBm 0 dBm M1[1] -2.00 dBm 10 dBm M1[1] -2.00 dBm 0 dBm M1[1] -2.00 dBm 0 dBm				- All				the side sizes in	25 N.					
Start 2.35 GHz 691 pts Stop 2.405 GHz Marker	-60 dB	aut												
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.4 GHz -50.24 dBm -4.23 dBm -5.16.3 dBm -5.16.3 dBm -5.16.3 dBm -5.16.3 dBm -4.20 dBm -4.20 dBm -4.20 dBm -4.20 dBm -4.23 dBm -4.23 dBm -4.23 dBm -4.23 dBm -4.20 dBm -5.16.3 dBm -5.1	-70 dB	m		-							-			
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.4 GHz -50.24 dBm -4.23 dBm -5.16.3 dBm -5.16.3 dBm -5.16.3 dBm -5.16.3 dBm -4.20 dBm -4.20 dBm -4.20 dBm -4.20 dBm -4.23 dBm -4.23 dBm -4.23 dBm -4.23 dBm -4.20 dBm -5.16.3 dBm -5.1		0.6-										0.477		
Type Ref Trc. X-value Y-value Function Function Result M1 1 2.402015 GHz -43.28 dm			iHz				691	ots			Stop	o 2.405 GI		
M1 1 2.4 G015 GHz -4.23 dBm M2 1 2.4 GHz -50.24 dBm M3 1 2.39 GHz -49.64 dBm M4 1 2.3778986 GHz -47.79 dBm DH5_Ant1_High_2480 Count 11 APR 2022 09.19.45 DH5_Ant1_High_2480 Count 300/300 PLY Idea M1[1] -2.00 dBm M1[1] -2.00 dBm 0 JBK VIEW M1[1] -2.00 dBm 0 dBm M1[1] -2.00 dBm -2.00 dBm M1[1] -2.00 dBm -2.00 dBm M1[1] -2.00 dBm -2.00 dBm -2.00 dBm -2.00 dBm -2.00 dBm	Туре	Ref	Trc	X-va	lue				on	Fur	nction Resu	ılt		
M3 1 2.39 GHz -49.64 dBm M4 1 2.3778986 GHz -47.79 dBm Date: 11.APR 2022 09.19.45 DH5_Ant1_High_2480 Tote: 11.APR 2022 09.19.45 DH5_Ant1_High_2480 OB OB OB OB OB OB OB M10 OB OB OB M11 OB OB OB OB OB OB OB OB OB <th <="" colspan="2" td=""><td>M</td><td>1</td><td>1</td><td>2.40</td><td>2015 GH</td><td>Hz Hz</td><td>-4.23 dBr -50.24 dBr</td><td>n</td><td></td><td></td><td></td><td></td></th>	<td>M</td> <td>1</td> <td>1</td> <td>2.40</td> <td>2015 GH</td> <td>Hz Hz</td> <td>-4.23 dBr -50.24 dBr</td> <td>n</td> <td></td> <td></td> <td></td> <td></td>		M	1	1	2.40	2015 GH	Hz Hz	-4.23 dBr -50.24 dBr	n				
DH5_Ant1_High_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 M1[1] -2.00 dBm -2.00 dBm 10 dBm M1 M2[1] -51.63 dBm -51.63 dBm -10 dBm M1 M2[1] -51.63 dBm -51.63 dBm -20 dBm M1 M2 -40 dBm -51.63 dBm </td <td>MB</td> <td>3</td> <td>1</td> <td></td> <td>2.39 Gł</td> <td>Hz</td> <td>-49.64 dBr</td> <td>n</td> <td></td> <td></td> <td></td> <td></td>	MB	3	1		2.39 Gł	Hz	-49.64 dBr	n						
DH5_Ant1_High_2480 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] -2.00 dBm M1[1] -2.00 dBm 10 dBm M1 M1[1] -2.00 dBm 10 dBm M1 M2[1] -51.63 dBm 20 dBm 01 -22.000 dBm M2[1] -51.63 dBm 30 dBm M2 M2[1] -51.63 dBm M4 -10 dBm M2 M2 M2 M4 M4 -20 dBm M2 -2.00 dBm M4 M4 M4 -10 dBm M2 -2.48001 GHz -2.00 dBm M4 -20 dBm M2 -2.00 dBm M4 M4 -20 dBm M2 -2.00 dBm M4 M4 -20 dBm -2.200 dBm M2 Stop 2.55 GHz Marker -2.00 dBm -2.00 dBm Function Result M2 M2 1 2.48001 GHz														
Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT Count 300/300 Int View M1[1] -2.00 dBm 2.480010 GHz 10 dBm M2[1] -51.63 dBm 2.480300 GHz 0 dBm M1 M2[1] -51.63 dBm 0 dBm 2.480300 GHz M2[1] -51.63 dBm -10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -70 dBm									480					
• IPk View M1[1] -2.00 dBm 10 dBm M1[1] -3.00 dBm 0 dBm M2[1] -3.1.63 dBm -10 dBm 2.48300 GHz -10 dBm 2.48300 GHz -20 dBm 1.2.48300 GHz -10 dBm -3.00 dBm -20 dBm -1.22.000 dBm -30 dBm -40 dBm -40 dBm -40 dBm -50 dBm -40 dBm -70 dBm -50 dBm -70 dBm -50 dBm 1 2.48001 GHz <	Date: 11	APR.2	022 09:19	45	[DH5	_Ant1_	High_2	480					
10 dBm M1[1] -2.00 dBm 10 dBm M1 2.480010 GHz -51.63 dBm 0 dBm M2[1] -51.63 dBm -2.483500 GHz -20 dBm -10 dBm -2.00 dBm -2.00 dBm -2.00 dBm -20 dBm -10 dBm -2.00 dBm -2.00 dBm -2.00 dBm -30 dBm -30 dBm -2.00 dBm -2.00 dBm -2.00 dBm -40 dBm -40 dBm -2.00 dBm -2.00 dBm -2.00 dBm -2.00 dBm -50 dBm -70 dBm -2.00 dBm -2.00 dBm -2.00 dBm -2.00 dBm -70 dBm -70 dBm -2.48001 GHz -2.00 dBm -2.55 GHz M1 1 2.48001 GHz -2.00 dBm -2.00 dBm M1 1 2.48001 GHz -2.00 dBm -2.55 GHz M1 1 2.48001 GHz -2.00 dBm -2.55 GHz M1 1 2.48001 GHz -2.00 dBm -2.55 GHz	Date: 11	APR.2	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2						
10 d8m 2.480010 GHz 0 d8m M1 0 d8m M2[1] -51.63 d8m -10 d8m 2.483500 GHz -10 d8m -10 d8m -20 d8m 01 -22.000 d8m -30 d8m -10 d8m -40 d8m -10 d8m -30 d8m -10 d8m -30 d8m -10 d8m -40 d8m -10 d8m -40 d8m -10 d8m -40 d8m -10 d8m -40 d8m -10 d8m -50 d8m -10 d8m -70 d8m -51.53 d8m <td>Date: 11</td> <td>APR.2 trum Level</td> <td>022 09:19 20.00 dB 30 c</td> <td>45 m Offse</td> <td>[t 9.80 (</td> <td>DH5<u>.</u> d8 ● R</td> <td>_Ant1_</td> <td>High_2</td> <td></td> <td></td> <td></td> <td></td>	Date: 11	APR.2 trum Level	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2						
M1 2.483500 GHz 10 dBm 2.483500 GHz -10 dBm 2.483500 GHz -20 dBm 01 -22.000 dBm -30 dBm -10 dBm -40 dBm -10 dBm -50 dBm -10 dBm -10 dBm -10 dBm -20 dBm -10 -22.000 dBm -30 dBm -10 dBm -50 dBm -10 -22.000 dBm -50 dBm -10 -22.000 dBm -70 dBm -10 -22.00 dBm -70 dBm -10 -22.00 dBm -70 dBm -10 -2.48001 GHz -2.48001 GHz -2.00 dBm Marker -2.48001 GHz Type Ref Trc X -value Y-value M1 1 -2.48001 GHz -2.00 dBm M3 1 -2.48001 GHz -2.00 dBm M3 1 -2.48001 GHz -51.63 dBm M3 1 -2.48001 GHz	Date: 11	APR.2 trum Level	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2	uto FFT			-2.00 d		
U dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -20 dBm -1.22.000 dBm -10 dBm -30 dBm -1.22.000 dBm -10 dBm -40 dBm -10 dBm -10 dBm -40 dBm -10 dBm -10 dBm -50 dBm -10 dBm -10 dBm -50 dBm -10 dBm -10 dBm -70 dBm -10 dBm -10 dBm Marker -70 dBm -70 dBm M1 1 -2.48001 GH2 -2.00 dBm M2 1 2.48001 GH2 -2.00 dBm M3 1 1.2.5 GH2 -51.63 dBm M3 1 1.2.5 GH2 -51.53 dBm	Date: 11	.APR.2 trum Level t 300/	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT		2	-2.00 d		
-20 dBm 1 -22.00 dBm -30 dBm -30 dBm -30 dBm -40 dBm -40 dBm -40 dBm -40 dBm -40 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm M1 1 2.48001 GHz -2.00 dBm M2 1 2.48001 GHz -51.63 dBm M3 1 1.2.5 GHz -551.53 dBm	Date: 11 Spec Ref Attack Date: 11 Spec Ref Date: 11 Date:	APR.2 trum Level t 300// View	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT			-2.00 d .480010 (-51.63 d		
-30 dBm -40 dBm -40 dBm -50 dBm -70	Date: 11 Spec Ref Attack Date: 11 Spec Ref Date: 11 Date:	APR.2 trum Level t 300// View	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT	1		-2.00 d .480010 (-51.63 d		
-30 dBm -40 dBm -40 dBm -50 dBm -70	Date: 11 Spec Ref I Attack Count ID dBr 0 dBm	APR.2	022 09:19 20.00 dB 30 c	45 m Offse	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT			-2.00 d .480010 (-51.63 d		
40 dBm M2 M3 M4 M4 s50 dBm M3 white the second seco	Date: 11 Date: 11 Spec Ref Att Count 10 dBr 0 dBm -10 dB	.APR.2	20.00 dB 300	45 m Offse B SWT	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT			-2.00 d .480010 (-51.63 d		
M2 M3 M3<	Date: 11 Date: 11 Specc Ref Att Countries 10 dBr -10 dB -20 dB	APR 2	20.00 dB 300	45 m Offse B SWT	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT			-2.00 d .480010 (-51.63 d		
Start 2.47 GHz 691 pts Stop 2.55 GHz Marker -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm Marker -70 dBm -70 dBm -70 dBm Marker -70 dBm -70 dBm -70 dBm M1 1 2.48001 GHz -2.00 dBm -7.00 dBm M1 1 2.48001 GHz -51.63 dBm -7.53 dBm M3 1 2.5 GHz -51.53 dBm -7.53 dBm	Date: 11 Date: 11 Specc Ref Att Countries 10 dBr -10 dB -20 dB	APR 2	20.00 dB 300	45 m Offse B SWT	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT			-2.00 d .480010 (-51.63 d		
-50 dBm -70 dBm <t< td=""><td>Date: 11 Specc Ref f Att Count 10 dBr 0 dBm -10 dB -20 dB -30 dB</td><td>APR 2</td><td>20.00 dB 300</td><td>45 m Offse B SWT</td><td>[t 9.80 (</td><td>DH5<u>.</u> d8 ● R</td><td>_Ant1_</td><td>High_2 Mode A</td><td>uto FFT</td><td></td><td></td><td>-2.00 d .480010 (-51.63 d</td></t<>	Date: 11 Specc Ref f Att Count 10 dBr 0 dBm -10 dB -20 dB -30 dB	APR 2	20.00 dB 300	45 m Offse B SWT	[t 9.80 (DH5 <u>.</u> d8 ● R	_Ant1_	High_2 Mode A	uto FFT			-2.00 d .480010 (-51.63 d		
-70 dBm Start 2.47 GHz 691 pts Stop 2.55 GHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.48001 GHz -2.00 dBm -2.00 dBm -31.63 dBm M3 1 2.4.835 GHz -51.63 dBm -51.55 dBm -51.63 dBm	Date: 11 Spec: Ref Att Count 10 dBr 10 dBr -10 dB -20 dB -30 dB -40 dB	APR 2	20.00 dB 30 c	45 m Offse B SWT	[t 9.80 (OH5 dB ● R µs ● V	Ant1_	High_2 Mode A	uto FFT	Me	2	-2.00 d .480010 (-51.63 d .483500 (
Start 2.47 GHz 691 pts Stop 2.55 GHz Marker Type [Ref Trc X-value Y-value Function Function Result M1 1 2.48001 GHz -2.00 dBm -2.00 dBm -3.153 dBm	Date: 11 Spec: Ref Att Count 10 dBr -10 dB -20 dB -30 dB -40 dB -40 dB	APR 2	20.00 dB 30 c	45 m Offse B SWT	[t 9.80 (OH5 dB ● R µs ● V	Ant1_	High_2 Mode A	uto FFT	M4 M4	2	-2.00 d .480010 (-51.63 d .483500 (
Start 2.47 GHz 691 pts Stop 2.55 GHz Marker Type [Ref Trc X-value Y-value Function Function Result M1 1 2.48001 GHz -2.00 dBm -2.00 dBm -3.153 dBm	Date: 11 Spec: Ref Att Count 10 dBr -10 dB -20 dB -30 dB -40 dB -40 dB	APR 2	20.00 dB 30 c	45 m Offse B SWT	[t 9.80 (OH5 dB ● R µs ● V	Ant1_	High_2 Mode A	uto FFT	M4 M44 M45	2	-2.00 d .480010 (-51.63 d .483500 (
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.48001 GHz -2.00 dBm	Date: 11 Spec: Ref • Att • OdBm • 10 dBm • 0 dBm	APR 2	20.00 dB 30 c	45 m Offse B SWT	[t 9.80 (OH5 dB ● R µs ● V	Ant1	High_2 Mode A	uto FFT	M4 M4	2	-2.00 d .480010 (-51.63 d .483500 (
Type Ref Trc X-value Y-value Function Function Result M1 1 2.48001 GHz -2.00 dBm	Date: 11 Spec: Ref • Att • OdBm • 10 dBm • 0 dBm	APR 2	20.00 dB 30 c	45 m Offse B SWT	[t 9.80 (OH5 dB ● R µs ● V	Ant1	High_2 Mode A	uto FFT	M4	2	-2.00 d .480010 (-51.63 d .483500 (
M1 1 2.48001 GHz -2.00 dBm M2 1 2.4835 GHz -51.63 dBm M3 1 2.5 GHz -51.55 dBm	Date: 11 Spec: Reft Count 10 dBr 10 dBr 10 dBr -10 dB -20 dB -30 dB -30 dB -40 dB -30 dB -40 dB -50 dB -70 dB Start	APR 2	M1	45 m Offse B SWT	[t 9.80 (OH5 dB ● R µs ● V	Ant1_	High_2 Mode A M1 M2	uto FFT	M4	2	-2.00 d .480010 (-51.63 d .483500 (
M3 1 2.5 GHz -51.55 dBm	Date: 11 Spec: Ref Att Count I D der 0 dBm -10 dB -20 dB -30 dB -40 dB -40 dB -40 dB -50 dB -70 dB Start Marke	APR 2	20.00 dB 30 c 30 c 30 c 30 c 30 c 30 c 30 c 30 c	45	E 9.80 94.8	OH5 dB ● R μs ● V	Ant1	High_2 Mode A M1 M2	(1) (1)	- Martill Concertion	2	-2.00 d .480010 (-51.63 d .483500 (
M4 1 2.527971 GHz -46.57 dBm	Date: 11 Spec: Ref Att Count 10 dBr -10 dB -20 dB -30 dB -30 dB -30 dB -40 dB -40 dB -50 dB -70 dB Stort Marke Type Marke	APR 2	20.00 dB 20.00 dB 30 c 30 c	45 m Offse B SWT 0 dBm 0 dBm X-va 2.4	Lue 8001 Gf	DH5 dB R R JS V M3 A M3 A M3 A M3 M3 M3 M3 M3 M3 M3 M3 M3 M3	Ant1	High_2 Mode A M1 M2	(1) (1)	- Martill Concertion	2	-2.00 d .480010 (-51.63 d .483500 (
	Date: 11 Spec: Ref Att Count I der 0 dBm -10 dB -20 dB -30 dB -40 dB -40 dB -40 dB -50 dB -70 dB Stort Markte Type	APR 2	M1 M22.000 dB 30 c M1 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	45 m Offse B SWT 0 dBm 0 dBm X-va 2.4	E \$ 9.80 94.8 9		Ant1_	High_2 Mode A M1 M2	(1) (1)	- Martill Concertion	2	-2.00 d .480010 (-51.63 d .483500 (



		DH5	Ant1 Low	/_Hop_240	2	
Spec	trum					
Ref	Level 20.00 dBm	Offset 9.84 dB	RBW 100 kHz			(A)
e Att	30 dB t 300/300	SWT 75.8 µs	VBW 300 kHz	Mode Auto FFT		
● 1Pk '						
				M1[1]		-2.87 dBm
10 dB	m			M2[1]		020150 GHz -49.37 dBm
0 dBm	-			an and Rubber	2.4	loooopg GHz
						000
-10 dE	Sm-					MM
-20 dB	D1 -22.870	dBm	_			1001
-30 dB						
-40 dE	M4				M3	12
,=5Q-d8	und the market warden	wohn when here	the most the	wwwwww	With mathematica	all I
-60 dB	Im-					
-70 dE	Sm-					
Other	2.35 GHz		691 pt:	c	Btor	2.405 GHz
Marke			091 pt:			
Туре	Ref Trc	X-value	Y-value	Function	Function Resu	ilt
M: M:	2 1	2.402015 GHz 2.4 GHz	-2.87 dBm -49.37 dBm			
	3 1	2.39 GHz	-50.66 dBm			
M	4 1	2.3539855 GHZ	-47.62 dBm			
M	4 1 .APR.2022 10:09:03		-47.62 dBm	n Hop 248	30	
M. M. Date: 11	.APR.2022 10:09:03	3	•	n_Hop_248	30	
Date: 11		3 DH5	•	n_Hop_248	30	
Date: 11	APR 2022 10:09:03	3 DH5 Offset 9.80 dB	_Ant1_High		30	
Date: 11	APR 2022 10:09:03	3 DH5 Offset 9.80 dB	Ant1_High		30	
M. M Date: 11 Spec Reft Coun	APR 2022 10:09:03	3 DH5 Offset 9.80 dB	Ant1_High			0.80 dBm
M. M Date: 11 Spec Reft Coun	APR 2022 10:09:03 trum Level 20.00 dBm 30 dB t 300/300 View m	3 DH5 Offset 9.80 dB	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm
M Date: 11 Spec Ref Att Coun IPk	APR.2022 10:09:03 trum Level 20,00 dBm 30 dB t 300/300 View	3 DH5 Offset 9.80 dB	Ant1_High	Mode Auto FFT	2	0.80 dBm
M Date: 11 Spec Ref Att Coun IPk	APR 2022 10:09:03 trum Level 20.00 dBm 30 dB t 300/300 View m	3 DH5 Offset 9.80 dB	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm
M. M. Date: 11 Spec Ref Att Coun • 1Pk: 10 dB • dam Att • dam	APR 2022 10:09:03 trum Level 20:00 dBm 30 dB 300/300 view	3 DH5 Offset 9.80 dB	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm
M. M. Date: 11 Spec Ref Att Coun • 1Pk: 10 dB • dam Att • dam	APR 2022 10:09:03 Etrum Level 20:00 dBm 30 dB t 300/300 view n M1 444444	3 Offset 9.80 dB SWT 94.8 µs	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm
Date: 11 Date: 11 Spect Ref Att Coun • IPK: 10 dBu 4 dam 4 dam 4 dam 4 dam 4 dam 4 dam 4 dam	APR 2022 10:09:02 trum Level 20:00 dBm 30 dB t 300/300 view n MI t -19:200	3 Offset 9.80 dB SWT 94.8 µs	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm
Date: 11 Date: 11 Date: 11 Cour PIP: 10 dB 9 dB 40 dB	APR 2022 10:09:02 trum Level 20:00 dBm 30 dB t 300/300 view n MI t -19:200	3 Offset 9.80 dB SWT 94.8 µs	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm
Date: 11 Date: 11 Spect Ref Att Coun • IPK: 10 dBu 4 dam 4 dam 4 dam 4 dam 4 dam 4 dam 4 dam	APR 2022 10:09:02 trum Level 20:00 dBm 30 dB 1:300/300 wiew M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	3 Offset 9.80 dB SWT 94.8 µs	Ant1_High	Mode Auto FFT M1[1]	2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M. M. Date: 11 Date: 11 Ref ■ Att Coun ● 1Pk: 10 de: 9 dem + Au 40 de -30 de -40 de	APR 2022 10:09:02 trum Level 20:00 d8m 30 d8 t 300/300 Wiew M1 M1 M1 M1 M1 M2 M2	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT M1[1] M2[1] 	2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M. Date: 11 Date: 11 Spect Ref • Att Coun ● 1Pk: 10 dex • dem • 40 de • 30 de • 40 de • 50 de	APR 2022 10:00:03 trum Level 20:00 d8m 1 300/300 view n M1 4 4 4 4 4 4 4 4 4 4 4 4 4	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT M1[1]	2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M. M. Date: 11 Date: 11 Ref ■ Att Coun ● 1Pk: 10 de: 9 dem + Au 40 de -30 de -40 de	APR 2022 10:00:03 trum Level 20:00 d8m 1 300/300 view n M1 4 4 4 4 4 4 4 4 4 4 4 4 4	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT M1[1] M2[1] 	2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M. Date: 11 Date: 11 Spect Ref • Att Coun ● 1Pk: 10 dex • dem • 40 de • 30 de • 40 de • 50 de	APR 2022 10:09:03	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT M1[1] M2[1] 	2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
Date: 11 Date: 11 Date: 11 O dat 0 date 0 dat 0 dat	APR 2022 10:09:03	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT M1[1] M2[1] 	2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
Date: 11 Date: 11 Date: 11 Date: 11 Coun • 1Pk: 10 dBi • dBm • dBm	APR 2022 10:09:03 trum Level 20:00 dBm 30 dB 3	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT	2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M. M. Date: 11 Date: 11 Spect Ref ■ Att Coun ● 1Pk: 10 dsi 9 dsm + 40 df - 30 dd - 40 df - 30 dd - 40 df - 50 df - 50 df - 70 df - 81 df	APR 2022 10:09:03 ttrum Level 20:00 d8m 30 d8 t 300/300 view M1 M1 M1 M2 M M2 M M2 M M2 M2 M2 M4 M2 M4 M2 M4	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M. M. Date: 11 Date: 11 Spect Ref ■ Att Coun ● 1Pk: 10 dsi 9 dsm + 40 df - 30 dd - 40 df - 30 dd - 40 df - 50 df - 50 df - 70 df - 81 df	APR 2022 10:00:02	3 Offset 9.80 dB SWT 94.8 µs dBm	Ant1_High	Mode Auto FFT	2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
M.M. Date: 11 Date: 11 Spect Ref 4tt Coun ● IPk- 10 dbs e dam - 20 db - 40 db - 40 db - 40 db - 50 db - 70 db -	APR 2022 10:00:02 trum Level 20:00 dBm 30 dB 30	3 Offset 9.80 dB SWT 94.8 µs dBm dBm x-value 2.48001 GHz 2.4805 GHz	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz
m. M. Date: 11 Date: 11 Spect Ref ■ Att Coun ● IPk: 10 dbl • dbm • dbm	APR 2022 10:00:03 trum Level 20:00 dbm 30 db t 300/300 View m M1 M2 m M1 M2 m M2 m M2 m M2 m M2 m M	3 Offset 9.80 dB SWT 94.8 µs dBm 	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1] M2[1]	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.80 dBm .480010 GHz -51.12 dBm .483500 GHz



2DH5_Ant1_Low_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		
●1Pk View M1[1] -4.79 dBm		
10 dBm 2.4020150 GHz M2[1]51.07 dBm		
0 dBm		
-10 dBm		
-20 dBm		
-30 dBm-		
-40 dBm		
n52, 38 Marcon the fam for more and a stranger and the second state of the second stat		
-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 2.402015 GHz -4.79 dBm M2 1 2.4 GHz -51.07 dBm		
M3 1 2.39 GHz -49.98 dBm M4 1 2.3535072 GHz -46.95 dBm		
M4 1 2.35350/2 GHz ~46.95 dbm Date: 11 APR 2022 09:33.13		
Date: 11 APR 2022 09:33:13		
Date: 11.APR 2022 09.33.13 2DH5_Ant1_High_2480		
Date: 11 APR 2022 09.33.13 2DH5_Ant1_High_2480 Spectrum Ref Level 20.00 dBm Offset 9.80 dB @ RBW 100 kHz		
Date: 11.APR.2022 09:33.13 2DH5_Ant1_High_2480 Spectrum Ref Level 20.00 dBm Offset 9.80 dB R RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz		
Date: 11.APR.2022 09:33.13		
Date: 11.APR.2022 09:33.13		
Date: 11.APR.2022 09:33.13		
Date: 11.APR 2022 09:33.13 DDH5_Ant1_High_2480 Spectrum Ref Level 20.00 dbm Offset 9:60 db RBW 100 kHz Att 30 db SWT 94.8 µs e VBW 300 kHz Mode Auto FFT Count 300/300 @1Pk View MI[1] 10 dbm 0 dbm MI 2.479670 GHz 0 dbm		
Date: 11.APR.2022 09:33.13		
Date: 11.APR 2022 09:33.13 DDH5_Ant1_High_2480 Spectrum Ref Level 20.00 dbm Offset 9:60 db RBW 100 kHz Att 30 db SWT 94.8 µs e VBW 300 kHz Mode Auto FFT Count 300/300 @1Pk View MI[1] 10 dbm 0 dbm MI 2.479670 GHz 0 dbm		
Date: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 Spectrum Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspa		
Date: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 Spectrum Colspan="2">Colspan="2" Colspan="2">MI1(1) -2.06 dBm Colspan="2" MI1(1) -2.06 dBm Colspan="2" MI1(1) -2.06 dBm Colspan="2" Colspan="2" Colspan="2" Colspan="2" Colspan="2" O dBm <td< td=""><td></td></td<>		
Date: 11.APR.2022. 09:33.13 2DH5_Ant1_High_2480 Spectrum Spectrum Ref Level 20.00 dBm Offset 9:80 dB = RBW 100 kHz Att 300/300 Image: Plane Bar		
Date: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 Spectrum Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Note: Colspan="2">Miling: Colspan="2" Miling: Colspan="2">Colspan="2" Out: 300/300		
Date: 11.APR.2022. 09:33.13 2DH5_Ant1_High_2480 Spectrum Spectrum Ref Level 20.00 dBm Offset 9:80 dB = RBW 100 kHz Att 300/300 Image: Plane Bar		
Date: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 DETE: 11.APR.2022 09:33.13 Spectrum Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Note: Colspan="2">Miling: Colspan="2" Miling: Colspan="2">Colspan="2" Out: 300/300		
Date: 11.APR.2022. 09:33.13 2DH5_Ant1_High_2480 Spectrum Can : 30 db B RBW 100 kHz At : 30 db SWT 94.8 µs * VBW 300 kHz M1 D dBm D dBm		
Det: 11.4PR.2022 09.33.13 DET: 11.4PR.2022 09.33.13 DET: 11.4PR.2022 09.33.13 Spectrum Colspan="2">Colspan="2"Co		
Det: 11.4PR.2022 09:33.13 DET: 11.4PR.2022 09:33.13 DET: 11.4PR.2022 09:33.13 Spectrum Colspan="2">Colspan="2" Colspan="2" Colspan="2" OC dBm MI111 Colspan="2" Colspan="2" MI111 Colspan="2" Colspan="2" MI111 Colspan="2" O dBm MI111 Colspan="2" O dBm Colspan="2" O dBm <td co<="" td=""><td></td></td>	<td></td>	
Bet: 11.4PR.2022 09.33.L Spectrum Control offset 9.80 dB * RBW 100 kHz Ref Level 20,00 dBm Offset 9.80 dB * RBW 100 kHz Control 300/200 IPk View		
Det: 11.4PR.2022 09:33.13 DET: 11.4PR.2022 09:33.13 DET: 11.4PR.2022 09:33.13 Spectrum Colspan="2">Colspan="2" Colspan="2" Colspan="2" OC dBm MI111 Colspan="2" Colspan="2" MI111 Colspan="2" Colspan="2" MI111 Colspan="2" O dBm MI111 Colspan="2" O dBm Colspan="2" O dBm <td co<="" td=""><td></td></td>	<td></td>	



	2DH5_Ant1_Lov	v Hop 2402			
Spectrum					
1000 mg	et 9.84 dB 曼 RBW 100 kHz				
Att 30 dB SW		Mode Auto FFT			
Count 300/300 • 1Pk View					
		M1[1]		.81 dBm	
10 dBm		M2[1]		110 GHz .39 dBm	
0.40-		1112[1]	2.4000	000 GHz	
0 dBm	A			MV1/11	
-10 dBm				1.4 1.4 0	
-20 dBm D1 -19.190 dBm					
-30 dBm	3				
-40 dBm	M4			<u> </u>	
v5004BBQtopetanonoundly		Munderstranderstor	13 M2	N	
-60 dBm					
-70 dBm					
Start 2.35 GHz Marker	691 pts		Stop 2.	05 GHz	
M2 1 M3 1 M4 1 2.	2.4 GHz -50.39 dBm 2.39 GHz -50.49 dBm 369529 GHz -48.82 dBm				
Date: 22.APR.2022 04:14:42					
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm Offs Att 30 db SW Count 300/300	2DH5_Ant1_Hig et 9.80 d8 • RBW 100 kHz r 94.8 µs • VBW 300 kHz				
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SW	2DH5_Ant1_Hig	Mode Auto FFT			
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm Offs Att 30 db SW Count 300/300	2DH5_Ant1_Hig	Mode Auto FFT M1[1]	-(2.47	.48 dBm 990 GHz	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT	-(2.47(-51	.48 dBm	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT M1[1]	-(2.47(-51	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT M1[1]	-(2.47(-51	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT M1[1]	-(2.47(-51	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm Offs Att 30 db SW Count 300/300 IPk View 10 dbm -10 dbm -20 dbm 01 -20.480 dbm	2DH5_Ant1_Hig	Mode Auto FFT M1[1]	-(2.47(-51	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT M1[1]	-(2.47(-51	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm Offs Att 30 db SW Count 300/300 IPk View 10 dbm -10 dbm -20 dbm 01 -20.480 dbm	2DH5_Ant1_Hig	Mode Auto FFT M1[1] M2[1] M2[1]	-(2.47(-51	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT	-(2.47 -53 2.48	.48 dBm 990 GHz .82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT	-(2.47 -55 2.48	.48 dBm 990 GHz .82 dBm	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT	-(2.47 -53 2.48	.48 dBm 990 GHz .82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT	-(2.47 -53 2.48	.48 dBm 990 GHz .82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT		.48 dBm 990 GHz 82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig	Mode Auto FFT		.48 dBm 990 GHz .82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42	2DH5_Ant1_Hig et 9.80 d8 • RBW 100 kH2 94.8 µs • VBW 300 kH2 	Mode Auto FFT M1[1] M2[1] M4 M4 M4 M4		.48 dBm 990 GHz 82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm offs Att 30 db SW Count 300/300 Image: Count 300/300 Image: Count 300/300 In dbm June June D dbm June June In dbm June June Store June June In dbm June June June June June Store June June Store June June Store June June Store June June June Store June June June Store June June June	2DH5_Ant1_Hig et 9.80 d8 e RBW 100 kHz r 94.8 µs e VBW 300 kHz galaxy gal	Mode Auto FFT		.48 dBm 990 GHz 82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm Offs Att 30 db SW Count 300/300 Interview Interview Interview Interview Interview O dbm Organization Marker -20 dBm Interview Interview -30 dBm M2 Interview -50 dBm M2 Interview -60 dBm M2 Interview Interview Stort 2.47 GHz Marker Type [Ref Trc X - V M1 1 2	2DH5_Ant1_Hig set 9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz 94.8 µs • VBW 300 kHz 691 pts control (100 kHz) 691 pts control (100 kHz)	Mode Auto FFT M1[1] M2[1] M4 M4 M4 M4		.48 dBm 990 GHz 82 dBm 500 GHz	
Date: 22.APR 2022 04:14:42 Spectrum Ref Level 20.00 dbm Offs Att 30 db SW Count 300/300 Image: Count 300/300 Image: Count 300/300 In dbm Mill Image: Count 300/300 Image: Count 300/300 In dbm Mill Image: Count 300/300 Image: Count 300/300	2DH5_Ant1_Hig et 9.80 d8 e RBW 100 kHz r 94.8 µs e VBW 300 kHz galaxy gal	Mode Auto FFT M1[1] M2[1] M4 M4 M4 M4		.48 dBm 990 GHz 82 dBm 500 GHz	



				3DH	5_Ant1_	_Low_2	2402				2	
ſ	Spectrun				21						-	
	Ref Leve Att	l 20.00 dBm 30 dB			RBW 100 kHz VBW 300 kHz		uto FFT					
	Count 300,	/300	s decentra la		annen de La referenze de la Fra						~	
	⊜1Pk View				1	M1	[1]			-2.96 dBn	1	
	10 dBm								2.40	16970 GH	z	
	2330 - 120002.064					M2	[1]		2.40	45.63 dBn 00000 GH:	z	
	0 dBm									h		
	-10 dBm				-					\wedge	-	
	-20 dBm										1	
		D1 -22.960	dBm								1	
	-30 dBm		33					1	0	14	1	
	-40 dBm			-							-	
	-51Q_dBath	when design	water option	mound		month	the work	M3	all anon	W Ly	N	
	-60 dBm						ANY NO. NO.	4				
											1	
	-70 dBm	-									1	
	Start 2.35	GHz			691 p	ots		0	Ston	2.405 GHz		
	Marker										1	
	Type Re M1	f Trc	2.4016	97 GHz	Y-value -2.96 dBm	Functi	on	Fun	ction Result		4	
	M2	1	2	.4 GHz	-45.63 dBm	n					1	
	M3	1	2.39989	39 GHz 36 GHz	-50.84 dBm -38.11 dBm						1	
	M4]	
II. C		2022 09:55:4			5_Ant1_		2480					
	ate: 11.APR. Spectrun	2022 09:55:4	6	3DH:	5_Ant1_	_High_:	2480			(III)]	
	Spectrun Ref Leve	2022 09:55:4	6 Offset 9	3DH(_High_;				(The second seco	1	
	Spectrun Ref Leve Att Count 300,	2022 09:55:4	6 Offset 9	3DH(5_Ant1_	_High_;				(THE		
	Spectrun Ref Leve	2022 09:55:4	6 Offset 9	3DH(5_Ant1_	_High_;	uto FFT			-0.66 dBn	1	
	Spectrun Ref Leve Att Count 300,	2022 09:55:4	6 Offset 9	3DH(5_Ant1_	High :	uto FFT			-0.66 dBn 79670 GH:	n z	
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm-	2022 09:55:4	6 Offset 9	3DH(5_Ant1_	High_	uto FFT		-	-0.66 dBn	n z	
	Spectrun Ref Leve Att Outn 300, 1Pk View 10 dBm	2022 09:55:4	6 Offset 9	3DH(5_Ant1_	High :	uto FFT		-	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm-	2022 09:55:4	6 Offset 9	3DH(5_Ant1_	High :	uto FFT		-	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att Outn 300, 1Pk View 10 dBm	2022 09:55:4	6 Offset S SWT S	3DH(5_Ant1_	High :	uto FFT		-	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att O dBm	2022 09:55:4 1 20:00 dBm 30 dB /300	6 Offset 9 SWT 9	3DH(5_Ant1_	High :	uto FFT		-	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm	2022 09:55:4 1 20:00 dBm 30 dB /300	6 Offset 9 SWT 9	3DH(5_Ant1_	High :	uto FFT		-	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att O dBm	2022 09:55:4 1 20:00 dBm 30 dB /300	6 Offset 9 SWT 9	3DH .80 dB • 1 .4.8 µs • 1	5_Ant1_ RBW 100 kHz VBW 300 kHz	High :	uto FFT		2.4	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm	2022 09:55:4	6 Offset 9 SWT 9	3DH(5_Ant1_ RBW 100 kHz VBW 300 kHz	High :	uto FFT		-	-0.66 dBn 79670 GH: 49.69 dBn	n z	
	Spectrun Ref Leve Att Count 300,0 IPk View 10 dBm -10 dBm -20.dBm -30 dBm -40 dBm	2022 09:55:4	6 Offset 9 SWT 9	3DH5	5_Ant1_ RBW 100 kHz VBW 300 kHz	High :	uto FFT [1] [1]	av Marmore	2.4	-0.66 dBn 79670 GH3 49.69 dBn 83500 GH2	n z	
	Spectrun Ref Leve Att Count 300, 1D dBm 0 dBm -10 dBm -20 dBm -40 dBm -50 dBm -60 dBm	2022 09:55:4	6 Offset 9 SWT 9	3DH5	5_Ant1_ RBW 100 kHz VBW 300 kHz	High :	uto FFT [1] [1]		2.4	-0.66 dBn 79670 GH3 49.69 dBn 83500 GH2	n z	
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2022 09:55:4	6 Offset S SWT S	3DH5	5_Ant1_ RBW 100 kHz VBW 300 kHz	High :	uto FFT [1] [1]	er Provenser (2.4	-0.66 dBn 79670 GH3 49.69 dBn 83500 GH2	n z	
	Ref Leve Att Count 300, 1Pk View 10 dBm -20.dBm -30 dBm -40 dBm 450 dBm -70 dBm	2022 09:55:4 1 20:00 dBm 30 dB 30 dB 7300 M1 1 -20.660 M2 Vm7	6 Offset S SWT S	3DH5	5_Ant1_ RBW 100 kHz VBW 300 kHz VBW 300 kHz VI4 VI4 VI4 VI4 VI4	High Mode A	uto FFT [1] [1]	ev Maximum (2.4	-0.66 dBn 79670 GH; 49.69 dBn 83500 GH;		
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm Start 2.47 Marker	2022 09:55.4	6 Offset : SWT : dBm	3DH 0.80 dB • 1 24.8 µs • 1 24.8 µs • 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5_Ant1_ RBW 100 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz Automation M4 W4 Automation G91 p	High :	uto FFT [1] [1]		2.4	-0.66 dBn 79670 GH 49.69 dBn 83500 GHz		
	Spectrun Ref Leve Att Count 300, 1Pk View 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -60 dBm -70 dBm -70 dBm	2022 09:55.4	6 Offset S SWT S dBm	3DH5	5_Ant1_ RBW 100 kHz VBW 300 kHz	High	uto FFT [1] [1]		2.4	-0.66 dBn 79670 GH 49.69 dBn 83500 GHz		
	Spectrum Ref Leve Att Count 300, IPk View 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm Start 2.47 Yarker Type M1	2022 09:55.4	6 Offset 5 SWT 5 dBm X-value 2.479 2.48	3DH:	5_Ant1_ RBW 100 kHz VBW 300 k	High Mode A M1 M2	uto FFT		2.4	-0.66 dBn 79670 GH 49.69 dBn 83500 GHz		
	Spectrun Ref Leve Att Count 300, 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -60 dBm -70 dBm -70 dBm Stort 2.47 Yarker Type Re	2022 09:55.4	6 Offset 5 SWT 5 dBm X-value 2.479 2.48	3DH 20.60 dB • 1 24.8 µs • 1 24.8 µs • 1 34.8 µs • 1 34.8 µs • 1 35.6 Hz 35.6 Hz 5.6 GHz	5_Ant1_ REW 100 kHz VBW 300 kHz VBW 300 kHz VBW 300 kHz Generation of the second	High : Mode Al M1 M2	uto FFT		2.4	-0.66 dBn 79670 GH 49.69 dBn 83500 GHz		



3DH5_Ant1_Low_Hop_	2402	
Spectrum		
Ref Level 20.00 dBm Offset 9.84 dB 🖷 RBW 100 kHz	ulto A	
● Att 30 dB SWT 75.8 µs ● VBW 300 kHz Mode Auto Count 300/300	FFT	
●1Pk View		
M1[1]	-0.65 dBm	
10 dBm	2.4049600 GHz -50.58 dBm	
0 dBm	2.4000000 GHZ	
o dan	ለትዋል	
-10 dBm-	proving .	
-20.dBm D1 -20.650 dBm		
-30 dBm		
-40 dBm		
M4	M3	
150,080 mar have been been by and your and the second when the second se	the survey was the stranger and the	
-60 dBm		
-70 dBm		
Start 2.35 GHz 691 pts	Stop 2.405 GHz	
Marker		
Type Ref Trc X-value Y-value Function M1 1 2.40496 GHz -0.65 dBm	Function Result	
M2 1 2.4 GHz -50.58 dBm		
M3 1 2.39 GHz -51.21 dBm		
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20	2480	
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_	2480	
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum	_2480	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24 20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB ® RBW 100 kHz Att 30 dB \$SWT 94.8 µs YBW 300 kHz Mode Auto		
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24.20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs YBW 300 kHz Mode Auto		
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 IPk View	-0.21 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs YBW 300 kHz Mode Auto Count 300/300 91Pk View M1[1] M1[1] M1[1]		
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 ID dBm M1 M2[1]	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 IPK View M1[1] 10 dBm M1[1] 0 dBm M1[1]		
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 ID dBm M1 M2[1]	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs YBW 300 kHz Mode Auto Count 300/300 IPK View M1[1] M2[1] M2[1] 0 dBm M1 M2[1] M2[1] M2[1]	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22 APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 IPK View M1[1] 10 dBm M1[1] 0 dBm M1[1]	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs YBW 300 kHz Mode Auto Count 300/300 IPK View M1[1] M2[1] M2[1] 0 dBm M1 M2[1] M2[1] M2[1]	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs YBW 300 kHz Mode Auto Count 300/300 I 0 dBm M1 M2[1] 0 dBm M1 M2[1] M2[1] 0 dBm 1.20.210 dBm	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 KHz Att 30 dB SWT 94.8 µs VBW 300 KHz Offset 9.80 dB RBW 100 KHz Att 30 dB SWT 94.8 µs VBW 300 KHz Mode Auto Offset 9.80 dB RBW 100 KHz Att 30 dB SWT 94.8 µs VBW 300 KHz Offset 9.80 dB RBW 300 KHz Mode Auto Count 300/300 MI101 MI2[1] Offset 9.80 dB RBW 300 KHz Mode Auto Of dBm MI2[1] Of dBm MI2[1] Of dBm MI2[1]	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB ® RBW 100 kHz Att 30 dB SWT 94.8 µs 9 VBW 300 kHz Mode Auto Count 300/300 I o dBm M1 M2[1] 0 dBm 01 -20.210 dBm M3 M4	-0.21 dBm 2.478050 GHz -51.74 dBm	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB ® RBW 100 kHz Att 30 dB SWT 94.8 µS 9 VBW 300 kHz Mode Auto Count 300/300 IPK View M1[1] 10 dBm M2[1] OdBm -20.210 dBm -30 dBm M2 M3 M3		
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 © 1Pk View M1[1] 10 dBm M12[1] 0 dBm M1 0 dBm M1 -20.210 dBm M4 -30 dBm M2 M4 -20.210 dBm M4 -20.210 dBm M4 -30 dBm -0.20.210 dBm		
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB ® RBW 100 kHz Att 30 dB SWT 94.8 µS 9 VBW 300 kHz Mode Auto Count 300/300 IPK View M1[1] 10 dBm M2[1] OdBm -20.210 dBm -30 dBm M2 M3 M3		
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB = RBW 100 kHz Auto 30 dB SWT 94.8 µs WBW 300 kHz Made Auto Count 300/300 I D dBm M2[1] 0 dBm M4 M4 M4 Spectrum M2[1] M2[1] 0 dBm M2[1] M2 M4 M4 M4 M3 M4 M2 M4 M4 Spectrum M4 <th cols<="" td=""><td>FFT -0.21 dBm 2.478050 GHz -1.74 dBm 2.483500 GHz 2.483500 GHz</td></th>	<td>FFT -0.21 dBm 2.478050 GHz -1.74 dBm 2.483500 GHz 2.483500 GHz</td>	FFT -0.21 dBm 2.478050 GHz -1.74 dBm 2.483500 GHz 2.483500 GHz
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 ●1PK View M1[1] 0 dBm M1 M2[1] 0 dBm 01 -20.210 dBm M4 -26 dBm 01 -20.210 dBm M4 -50 dBm M2 M4 M4 -50 dBm M2 M4 M4 -70 dBm M2 M4 M4		
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04.24.20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs YBW 300 kHz Mode Auto Count 300/300 ID dBm M1[1] 10 dBm M2[1] M2[1] 0 dBm M2 M3 M4 -30 dBm M2 M3 M4 -50 dBm M2 M3 M4 -70 dBm M2 691 pts Marker	FFT -0.21 dBm 2.47 6050 GHz -51.74 dBm 2.483500 GHz -31.74 dBm 2.483500 GHz -31.74 dBm 2.48350 GHz -31.74 dBm -31.74	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB ® RBW 100 kHz Att 30 dB SWT 94.8 µS 9 VBW 300 kHz Mode Auto Count 300/300 IPk View MI[1] D dBm MI[1] O dBm O dBm <th< td=""><td>FFT -0.21 dBm 2.478050 GHz -1.74 dBm 2.483500 GHz 2.483500 GHz</td></th<>	FFT -0.21 dBm 2.478050 GHz -1.74 dBm 2.483500 GHz 2.483500 GHz	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ 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 Count 300/300 IPK View MI[1] 0 dBm M2[1] 0 dBm M2[1] 0 dBm M2 -0.210 dBm M4 -0.21 dBm	FFT -0.21 dBm 2.47 6050 GHz -51.74 dBm 2.483500 GHz -31.74 dBm 2.483500 GHz -31.74 dBm 2.48350 GHz -31.74 dBm -31.74	
M4 1 2.3735145 GHz -48.31 dBm Date: 22.APR 2022 04:24:20 3DH5_Ant1_High_Hop_ Spectrum Ref Level 20.00 dBm Offset 9:80 dB ® RBW 100 kHz Att 30 dB SWT 94.8 µS 9 VBW 300 kHz Mode Auto Count 300/300 IPk View MI[1] D dBm MI[1] O dBm O dBm <th< td=""><td>FFT -0.21 dBm 2.47 6050 GHz -51.74 dBm 2.483500 GHz -31.74 dBm 2.483500 GHz -31.74 dBm 2.48350 GHz -31.74 dBm -31.74</td></th<>	FFT -0.21 dBm 2.47 6050 GHz -51.74 dBm 2.483500 GHz -31.74 dBm 2.483500 GHz -31.74 dBm 2.48350 GHz -31.74 dBm -31.74	



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
	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:	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.
Test Results:	Pass







