

TEST REPORT

For Bluetooth-EDR

Report No..... : CHTW26065085

Project No : SHT2605034702W

FCC ID : 2ASNS58F

Applicant's name : Shenzhen Retevis Technology Co., Ltd.

Address..... : 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China

Product Name : Two Way Radio

Trade Mark..... : RETEVIS

Model No..... : RB58F

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C § 15.247**

Date of receipt of test sample..... : 2026/5/19

Date of testing..... : 2026/6/15 - 2026/6/23

Date of issue..... : 2026/6/23

Result..... : **PASS**



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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address..... : Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China

Test Report Form No. : R0066

Test Report Form(s) Originator : Shenzhen Huatongwei International Inspection Co., Ltd.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2026-06-23	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247 (c)	PASS	Caspar Chen
5.2	AC Conducted Emission	15.207	N/A	-
5.3	Peak Output Power	15.247 (b)(1)	PASS	Caspar Chen
5.4	20 dB Bandwidth	15.247 (a)(1)	PASS	Caspar Chen
5.5	99% Occupied Bandwidth	-	PASS ^{*1}	Caspar Chen
5.6	Carrier Frequency Separation	15.247 (a)(1)	PASS	Caspar Chen
5.7	Hopping Channel Number	15.247 (a)(1)	PASS	Caspar Chen
5.8	Dwell Time	15.247 (a)(1)	PASS	Caspar Chen
5.9	Duty Cycle Correction Factor	-	PASS ^{*1}	Caspar Chen
5.10	Pseudorandom Frequency Hopping Sequence	15.247(b)(4)	PASS	Caspar Chen
5.11	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Caspar Chen
5.12	Radiated Band Edge Emission	15.205/15.209	PASS	Junxu Lin
5.13	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Junxu Lin

Note:

- The measurement uncertainty is not included in the test result.
- ^{*1}: No requirement on standard, only report these test data.
- N/A: Not applicable

3. SUMMARY

3.1. Client Information

Applicant:	Shenzhen Retevis Technology Co., Ltd.
Address:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Retevis Technology Co., Ltd.
Address:	7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China

3.2. Product Description

Main unit information:	
Product Name:	Two Way Radio
Trade Mark:	RETEVIS
Model No.:	RB58F
Listed Model(s):	-
Power supply:	DC 3.7V from battery
Hardware version:	1.0.0
Software version:	2.0.0
Accessory unit information:	
Battery information:	Model:BL58 1800mAh 3.7V 6.66Wh

3.3. Radio Specification Description

Bluetooth version:	V5.1
Support function:	BR&EDR
Modulation:	GFSK, $\pi/4$ DQPSK
Operation frequency:	2402MHz~2480MHz
Channel number:	79
Channel separation:	1MHz
Antenna type:	PCB Antenna
Antenna gain:	4.21dBi

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

Channel	Frequency (MHz)
00	2402
01	2403
⋮	⋮
39	2441
⋮	⋮
77	2479
78	2480

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates and recorded the RF output power in the clause 5.3

Note:

- 1) The manufacturer declare that the maximum power value of the product is set as a default value in the enter test mode software.
- 2) All the test data for each data rate were verified, found π /4DQPSK Modulation which is worse case mode

4.3. Test mode

For RF test items:			
The engineering test program was provided and enabled to make EUT continuous transmitting.			
Test Item	Modulation / Data Rate		
	GFSK 1Mbps	π /4DQPSK 2Mbps	8DPSK 3Mbps
Conducted test item	✓	✓	-
Radiated test item	-	✓	-
Remark:			
– For radiated test item, the worst mode data rate 2Mbps was reported only, because this data rate has the highest RF output power at preliminary tests. – The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.			

4.4. Test sample information

Test item	HTW sample no.
RF Conducted test items	Refer to the description in the appendix report
RF Radiated test items	YPHT26050347002
EMI test items	-

Note:

RF Conducted test items: Peak Output Power, 20 dB Bandwidth, 99% Occupied Bandwidth, Carrier Frequency Separation, Hopping Channel Number, Dwell Time, Duty Cycle Correction Factor, Pseudorandom Frequency Hopping Sequence, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.5. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.6. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.7. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.8. Equipment Used during the Test

● RF Test Software					
Used	Test Item	Software Name	Manufacturer	Equipment No.	Version
●	RF Conducted	JS1120-3 RF Test Software	Tonscend	-	V3.6.21
●	Radiated Spurious Emission	EMC32	R&S	HTWER012	V10.60.20
●	Radiated Spurious Emission	E3	AUDIX	HTWER006	V6.110407a

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2025/8/19	2026/8/18
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2026/3/13	2027/3/12
●	OSP	R&S	HTWE0243	OSP120	101317	2025/8/19	2026/8/18
●	10dB Attenuator	R&S	HTWE0250-01	10dB Attenuator-1	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-02	10dB Attenuator-2	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-03	10dB Attenuator-3	N/A	2025/8/22	2026/8/21
●	10dB Attenuator	R&S	HTWE0250-04	10dB Attenuator-4	N/A	2025/8/22	2026/8/21
●	30dB Attenuator	R&S	HTWE0250-05	30dB Attenuator-5	N/A	2025/8/22	2026/8/21

● Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Climate chamber	ESPEC	HTWS0715	GPL-2	N/A	2026/6/5	2027/6/4

● Radiated emission- 9kHz~30MHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2026/3/24	2029/3/23
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2025/8/6	2026/8/5
●	Loop Antenna	R&S	HTWE0546	HFH2-Z2E	101073	2024/4/8	2027/4/7

● Radiated emission- 30MHz~1GHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2026/3/24	2029/3/23
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2025/8/6	2026/8/5
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2025/12/16	2028/12/15
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	/	2026/5/12	2027/5/11
●	CMAD	SCHWARZBECK	HTWE0537	CMAD1614	1614-530	2025/8/4	2026/8/3

● Radiated emission- Above 1GHz

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Full-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11122	2026/3/19	2029/3/18
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2025/8/6	2026/8/5
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2026/1/23	2029/1/22
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0551	SCU18F	100855	2026/5/12	2027/5/11

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

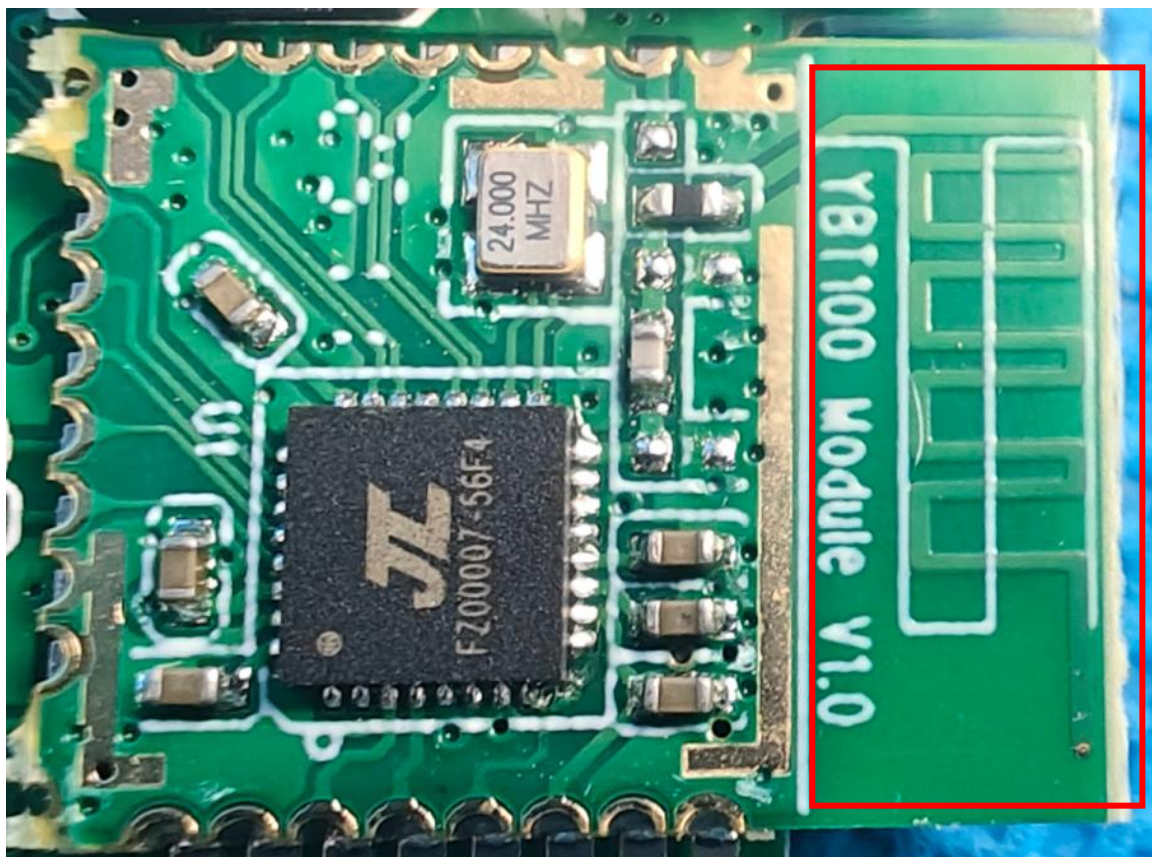
FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

TEST RESULT

☒ Passed ☐ Not Applicable

The antenna type is a PCB antenna, Refer to the below antenna photo.



5.2. AC Conducted Emission

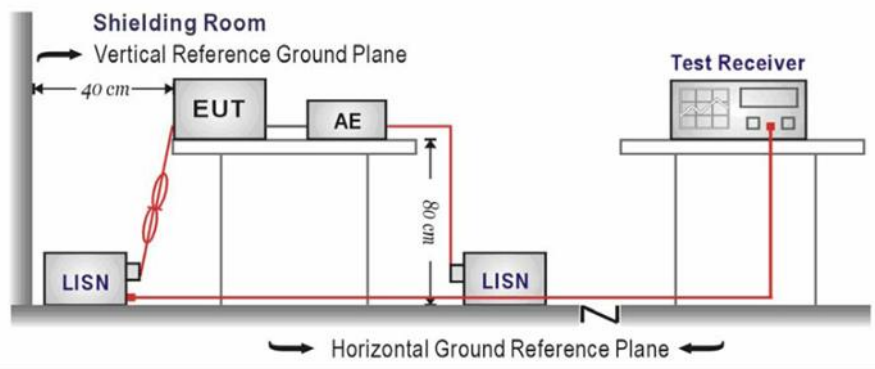
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☐ Passed ☒ Not Applicable

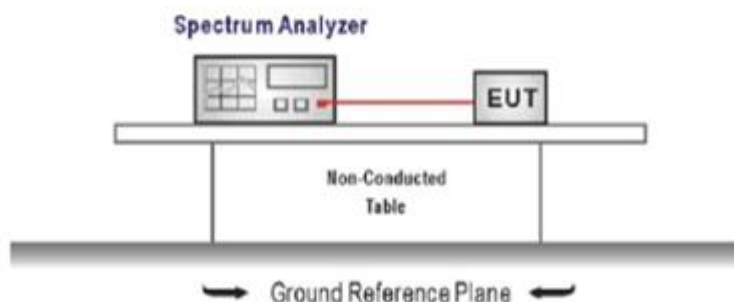
5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1):

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the pathloss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ the 20 dB bandwidth of the emission being measured, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

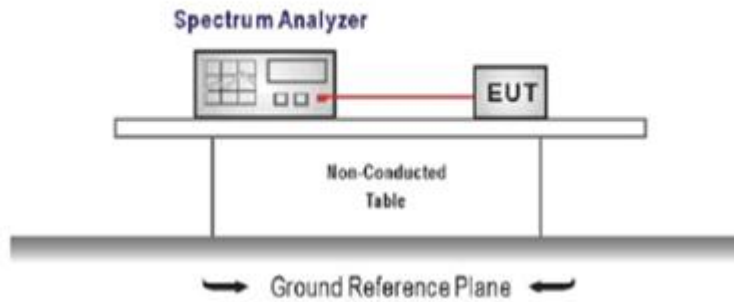
Refer to the appendix report

5.4. 20 dB Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel
RBW $\geq$ 1% of the 20 dB bandwidth, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

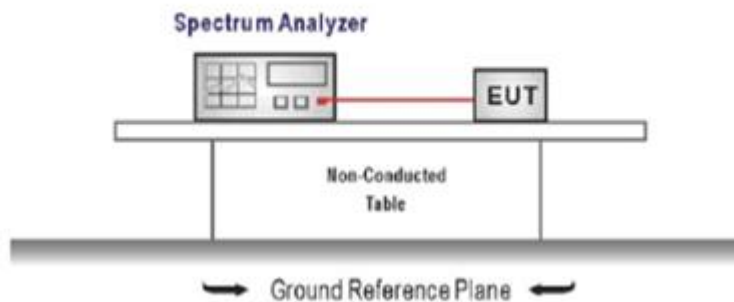
Refer to the appendix report

5.5. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times \text{OBW}$
RBW = 1%~5%OBW
VBW $\geq 3 \times \text{RBW}$
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

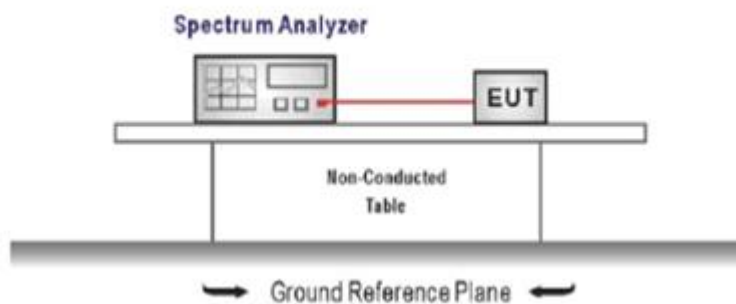
5.6. Carrier Frequencies Separation

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = wide enough to capture the peaks of two adjacent channels
RBW $\geq$ 1% of the span, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

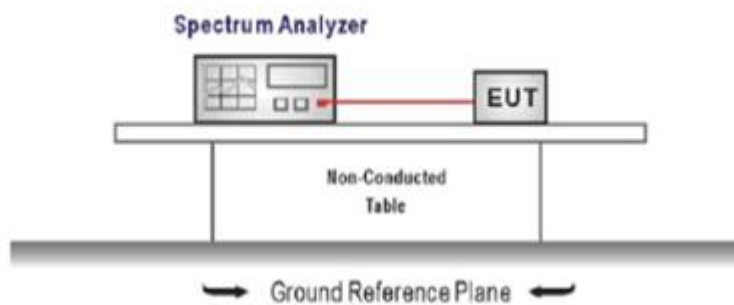
5.7. Hopping Channel Number

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1):

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

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = the frequency band of operation
RBW $\geq$ 1% of the span, VBW $\geq$ RBW
Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

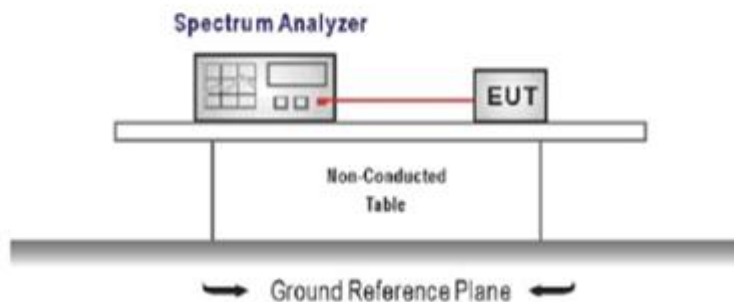
Refer to the appendix report

5.8. Dwell Time

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep = as necessary to capture the entire dwell time per hopping channel,
Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

TEST MODE

Refer to the clause 4.3

TEST RESULTS

☒ Passed ☐ Not Applicable

TEST DATA

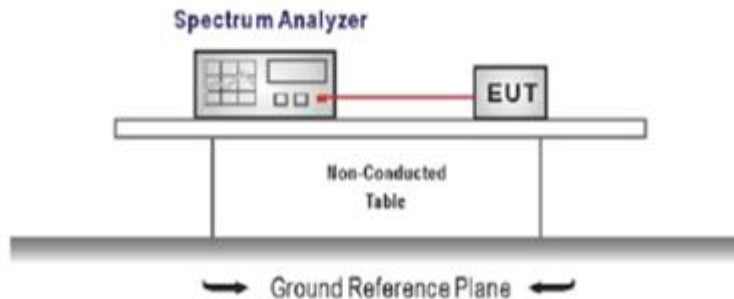
Refer to the appendix report

5.9. Duty Cycle Correction Factor (DCCF)

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span = zero span, centered on a hopping channel, RBW= 1 MHz, VBW $\geq$ RBW
Sweep = as necessary to capture the entire dwell time per hopping channel,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.3

TEST DATA

Refer to the appendix report

5.10. Pseudorandom Frequency Hopping Sequence

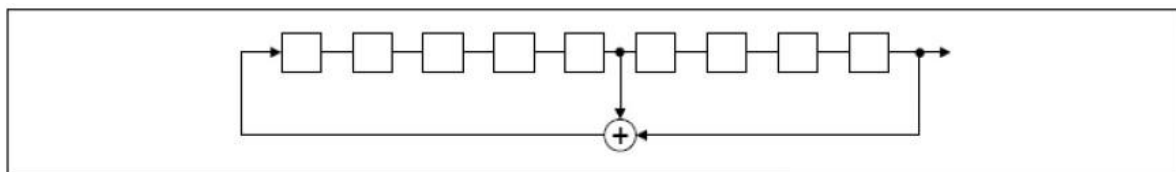
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

TEST RESULTS

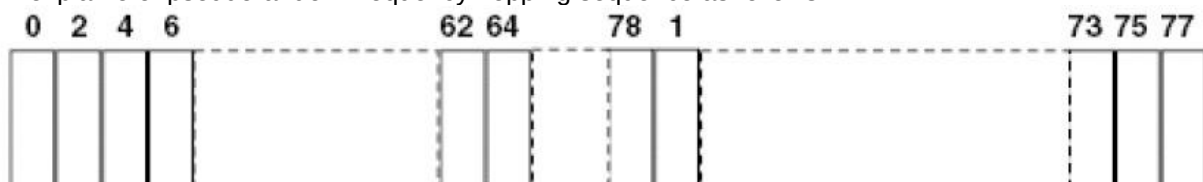
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones, for example: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

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

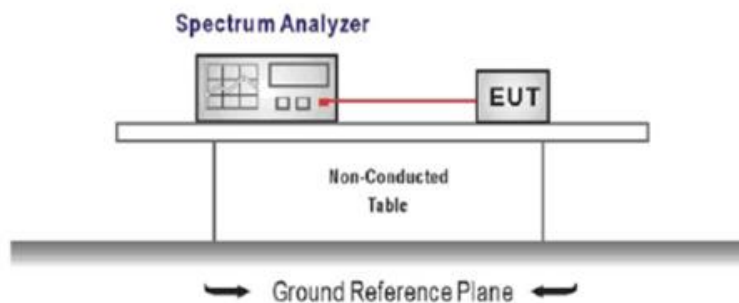
The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.

5.11. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): 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.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Emission level measurement
 Set the center frequency and span to encompass frequency range to be measured
 $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
 Detector = peak, Sweep time = auto couple, Trace mode = max hold
 Allow trace to fully stabilize
 Use the peak marker function to determine the maximum amplitude level.
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

TEST DATA

Refer to the appendix report

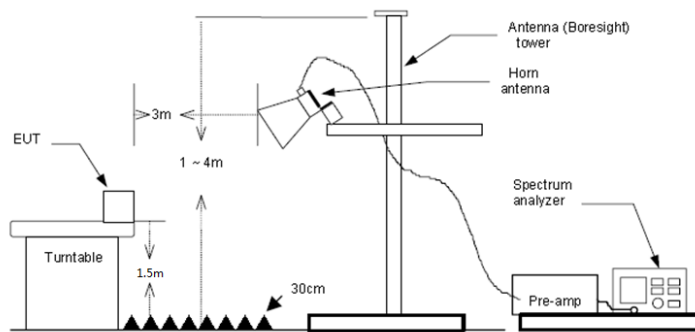
5.12. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement: use duty cycle correction factor method (DCCF)
 Averager level = Peak level + DCCF

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ Passed ☐ Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Test channel:		CH00			Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	42.97	28.48	4.11	41.00	10.00	44.56	74.00	-29.44	Peak
2	2377.68	48.51	28.34	4.17	41.00	10.00	50.02	74.00	-23.98	Peak
3	2390.03	45.72	28.32	4.19	41.00	10.00	47.23	74.00	-26.77	Peak

Test channel:		CH00			Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	44.73	28.48	4.11	41.00	10.00	46.32	74.00	-27.68	Peak
2	2390.03	43.15	28.32	4.19	41.00	10.00	44.66	74.00	-29.34	Peak

Test channel:		CH78			Polarity			Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	43.31	28.20	4.27	41.00	10.00	44.78	74.00	-29.22	Peak
2	2500.00	45.52	28.20	4.28	41.00	10.00	47.00	74.00	-27.00	Peak

Test channel:		CH78			Polarity			Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.50	44.30	28.20	4.27	41.00	10.00	45.77	74.00	-28.23	Peak
2	2500.00	44.72	28.20	4.28	41.00	10.00	46.20	74.00	-27.80	Peak

5.13. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

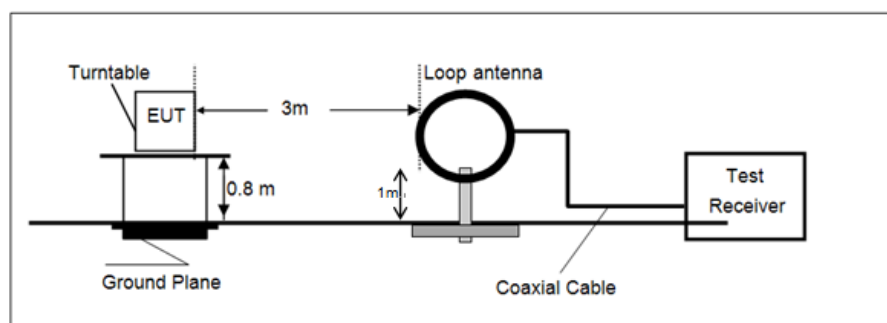
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

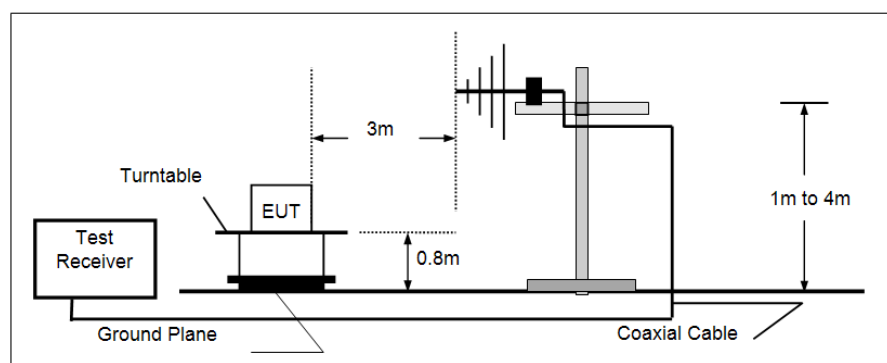
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

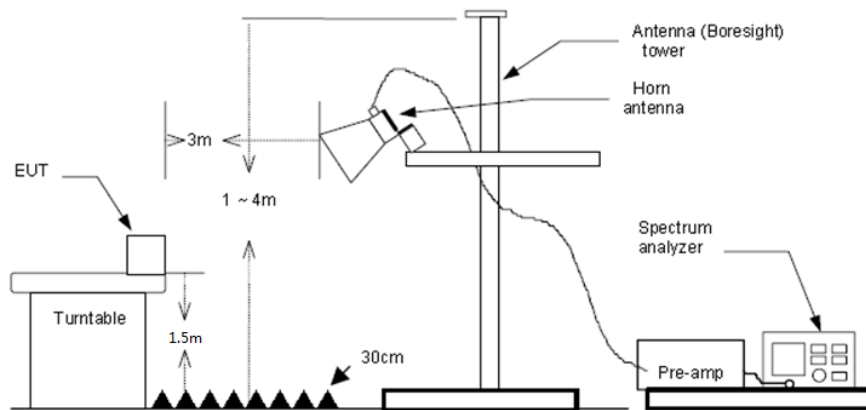
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10.
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement: use duty cycle correction factor method (DCCF)

Averager level = Peak level + DCCF

TEST MODE

Refer to the clause 4.3

TEST RESULT

☒ **Passed** ☐ **Not Applicable**

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH78 which it was worst case, so only show the worst case's data on this report.

Polarization:

Horizontal



Final Data List

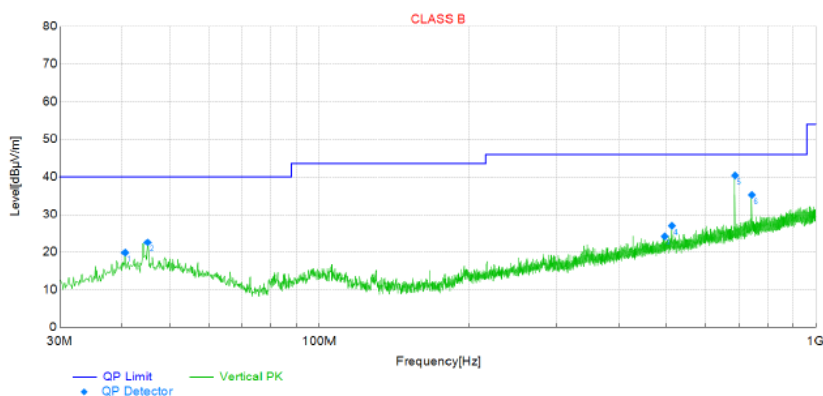
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol
1	45.6413	-8.41	26.06	17.65	40.00	22.35	100	131	Horizontal
2	427.4575	-3.57	27.32	23.75	46.00	22.25	100	85	Horizontal
3	513.0600	-1.71	30.02	28.31	46.00	17.69	100	85	Horizontal
4	687.5388	2.16	32.07	34.23	46.00	11.77	100	179	Horizontal
5	742.5863	3.62	30.43	34.05	46.00	11.95	100	4	Horizontal
6	931.1300	6.91	24.43	31.34	46.00	14.66	100	9	Horizontal

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

Polarization:

Vertical



Final Data List

NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Pol
1	40.6700	-9.40	29.24	19.84	40.00	20.16	100	4	Vertical
2	45.1563	-8.52	31.11	22.59	40.00	17.41	100	165	Vertical
3	495.7213	-2.05	26.28	24.23	46.00	21.77	100	87	Vertical
4	513.0600	-1.71	28.69	26.98	46.00	19.02	100	133	Vertical
5	687.5388	2.16	38.2	40.36	46.00	5.64	100	67	Vertical
6	742.5863	3.62	31.53	35.15	46.00	10.85	100	22	Vertical

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

For 1 GHz ~ 25 GHz

Test channel		CH00			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	51.96	29.09	4.67	40.81	44.91	74.00	-29.09	Peak
2	6001.77	40.71	33.40	7.27	39.12	42.26	74.00	-31.74	Peak
3	9611.66	42.49	38.72	8.80	40.60	49.41	74.00	-24.59	Peak
4	11486.41	38.90	40.70	9.29	40.02	48.87	74.00	-25.13	Peak

Test channel		CH00			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	51.02	29.09	4.67	40.81	43.97	74.00	-30.03	Peak
2	3993.90	49.81	30.39	5.58	40.41	45.37	74.00	-28.63	Peak
3	9611.66	43.61	38.72	8.80	40.60	50.53	74.00	-23.47	Peak
4	11515.68	39.17	40.68	9.33	40.02	49.16	74.00	-24.84	Peak

Test channel		CH39			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	52.39	29.09	4.67	40.81	45.34	74.00	-28.66	Peak
2	3480.97	47.32	29.42	5.08	40.76	41.06	74.00	-32.94	Peak
3	8527.85	41.57	37.20	8.57	39.36	47.98	74.00	-26.02	Peak
4	11515.68	40.26	40.68	9.33	40.02	50.25	74.00	-23.75	Peak

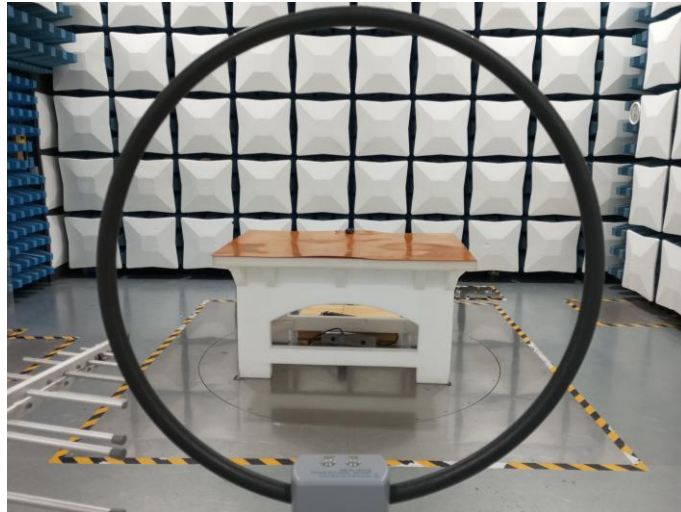
Test channel		CH39			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3003.17	51.43	29.11	4.67	40.81	44.40	74.00	-29.60	Peak
2	3993.90	56.19	30.39	5.58	40.41	51.75	74.00	-22.25	Peak
3	9759.59	43.25	39.02	8.80	40.60	50.47	74.00	-23.53	Peak
4	11545.04	39.63	40.65	9.37	40.06	49.59	74.00	-24.41	Peak

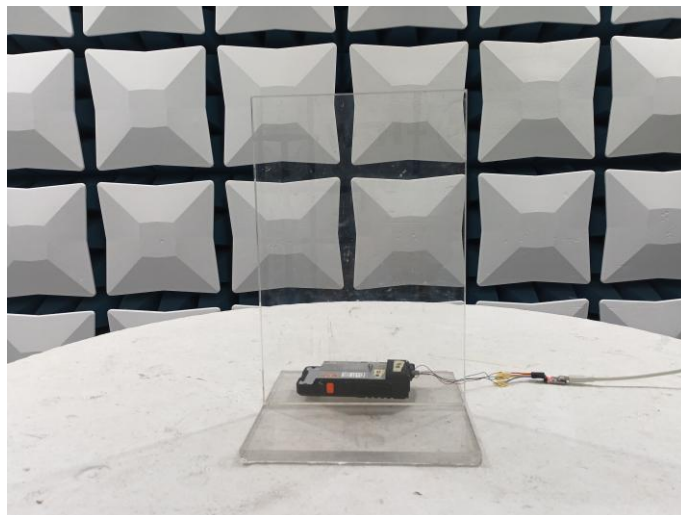
Test channel		CH78			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	51.83	29.09	4.67	40.81	44.78	74.00	-29.22	Peak
2	3993.90	47.46	30.39	5.58	40.41	43.02	74.00	-30.98	Peak
3	9935.05	42.27	39.20	8.80	40.60	49.67	74.00	-24.33	Peak
4	11603.96	39.86	40.59	9.47	40.15	49.77	74.00	-24.23	Peak

Test channel		CH78			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2995.54	49.91	29.09	4.67	40.81	42.86	74.00	-31.14	Peak
2	4958.68	42.90	32.32	6.34	39.96	41.60	74.00	-32.40	Peak
3	8571.38	41.60	37.24	8.57	39.46	47.95	74.00	-26.05	Peak
4	11515.68	39.47	40.68	9.33	40.02	49.46	74.00	-24.54	Peak

6. TEST SETUP PHOTOS

Radiated Emission





7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTW26065084

8. APPENDIX REPORT

APPENDIX REPORT

Project No.	SHT2605034702W	Radio Specification	Bluetooth EDR
Test sample No.	YPHT26050347002	Model No.	RB58F
Start test date	2026-06-23	Finish date	2026-06-23
Temperature	23.8℃	Humidity	42%
Test Engineer		Auditor	

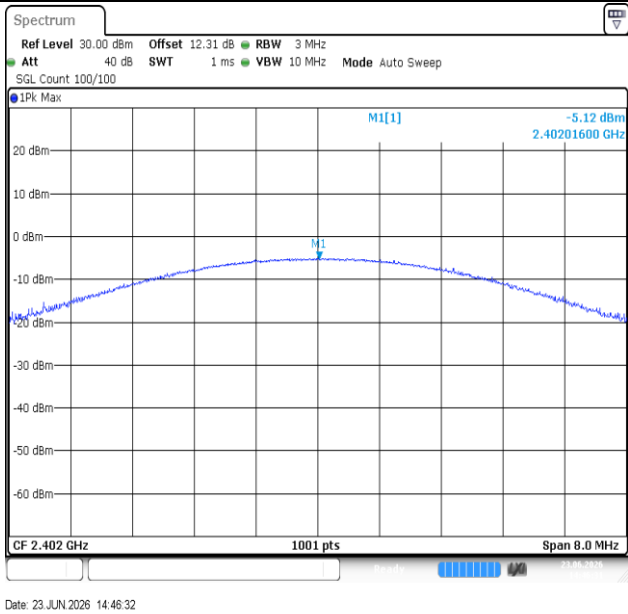
Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	20dB Bandwidth	PASS
C	99% Occupied Bandwidth	PASS
D	Carrier Frequency Separation	PASS
E	Hopping Channel Number	PASS
F	Dwell Time	PASS
G	Duty Cycle Correction Factor (DCCF)	PASS
H	Band edge and Spurious Emission(Conducted)	PASS

Appendix A: Peak Output Power

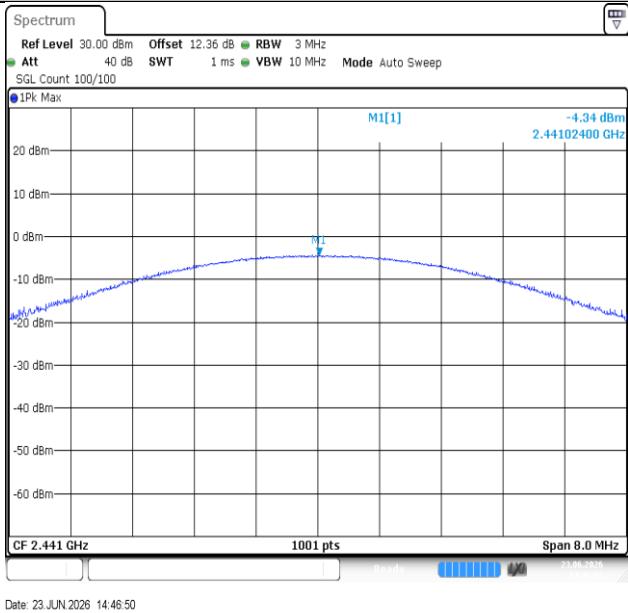
Test Result Peak

Test Mode	Frequency[MHz]	Peak Output Power[dBm]	Limit[dBm]	Verdict
DH5	2402	-5.12	≤30	PASS
DH5	2441	-4.34	≤30	PASS
DH5	2480	-4.47	≤30	PASS
2DH5	2402	-4.54	≤20.97	PASS
2DH5	2441	-3.89	≤20.97	PASS
2DH5	2480	-3.86	≤20.97	PASS

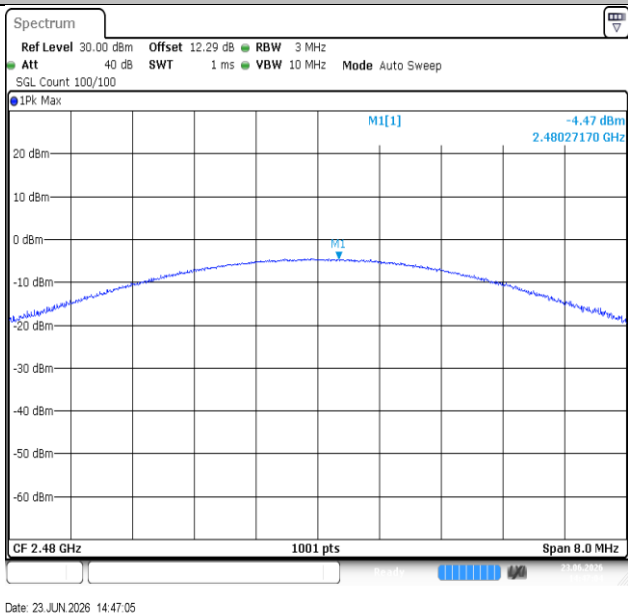
Test Graphs



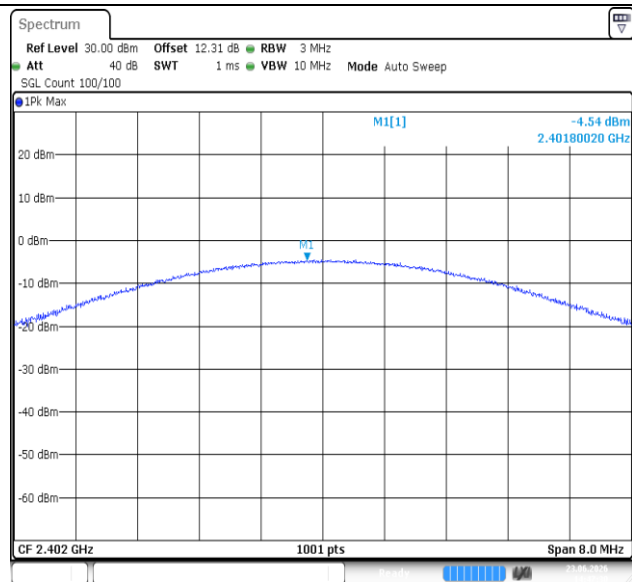
DH5-2402-PASS



DH5-2441-PASS

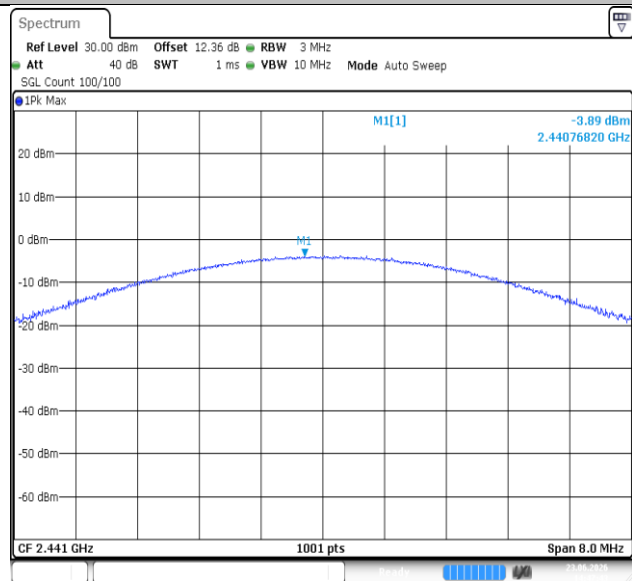


DH5-2480-PASS



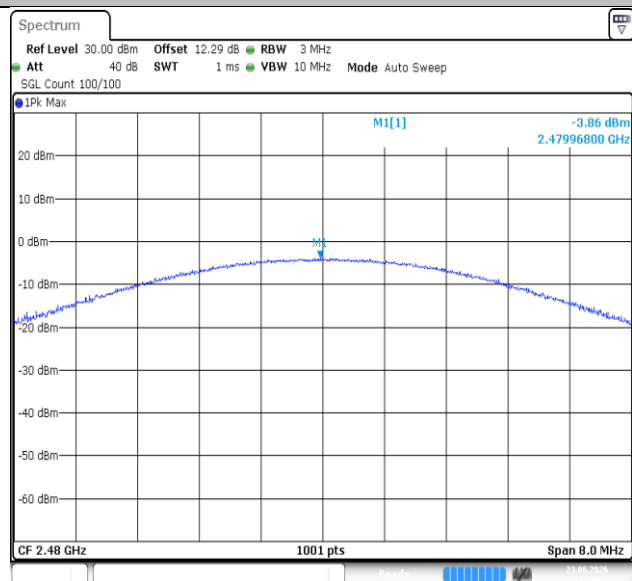
Date: 23 JUN 2026 14:47:31

2DH5-2402-PASS



Date: 23 JUN 2026 14:47:44

2DH5-2441-PASS



Date: 23 JUN 2026 14:47:57

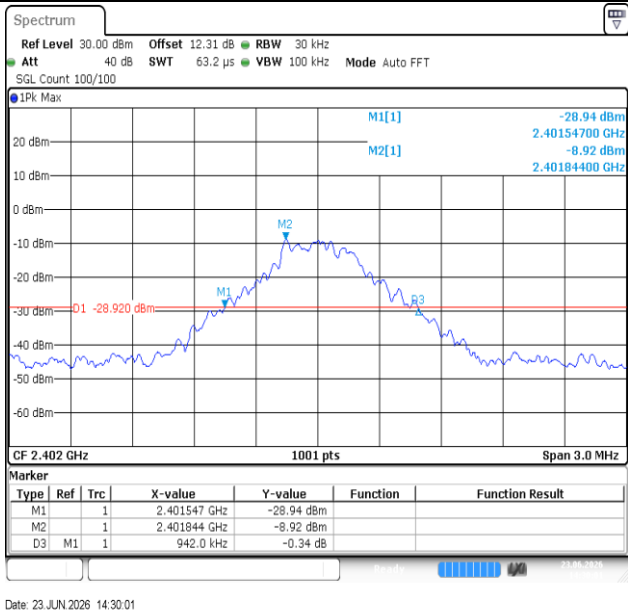
2DH5-2480-PASS

Appendix B: 20dB Bandwidth

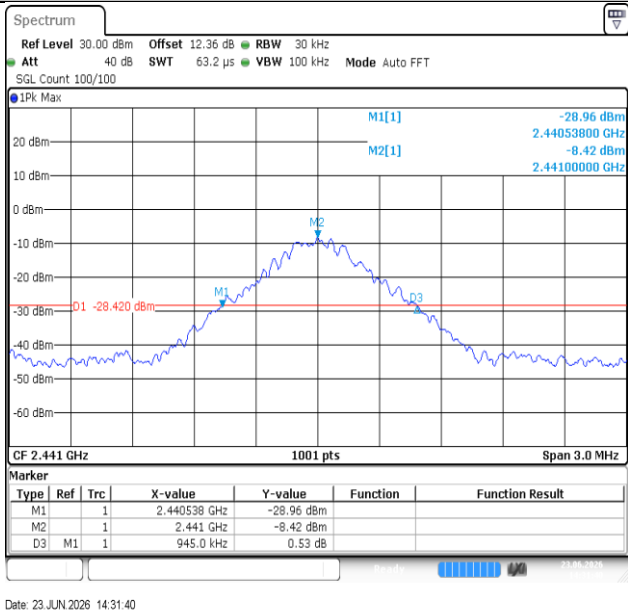
Test Result

TestMode	Frequency[MHz]	20db Bandwidth [MHz]	Limit[MHz]	Verdict
DH5	2402	0.94	---	---
DH5	2441	0.95	---	---
DH5	2480	0.95	---	---
2DH5	2402	1.29	---	---
2DH5	2441	1.29	---	---
2DH5	2480	1.35	---	---

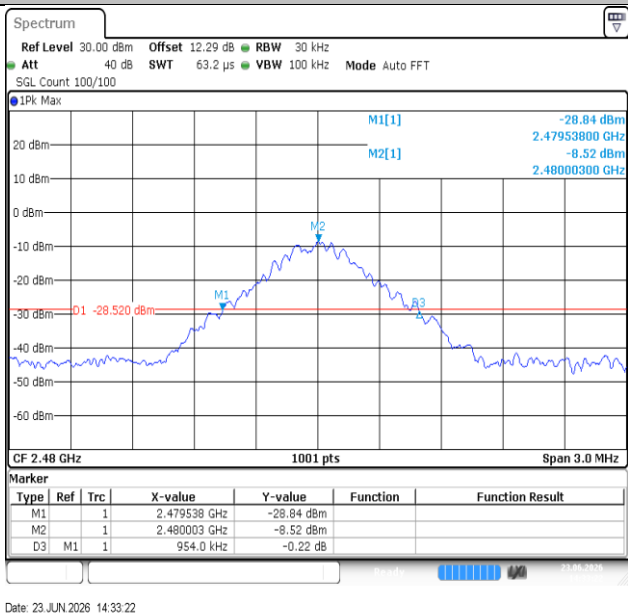
Test Graphs



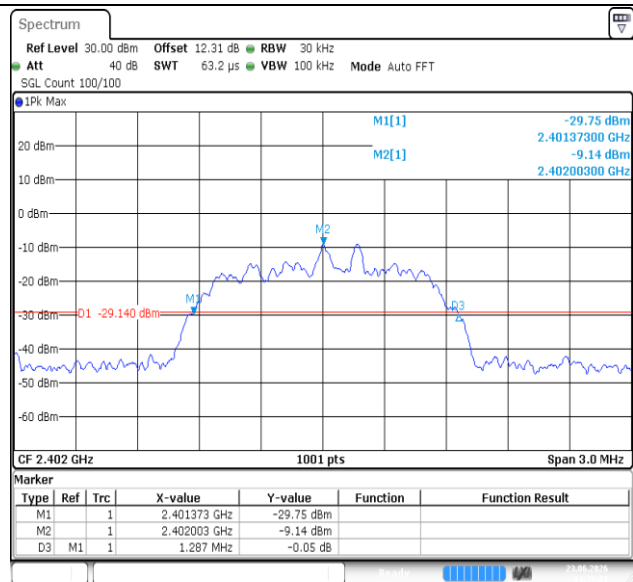
DH5-2402



DH5-2441

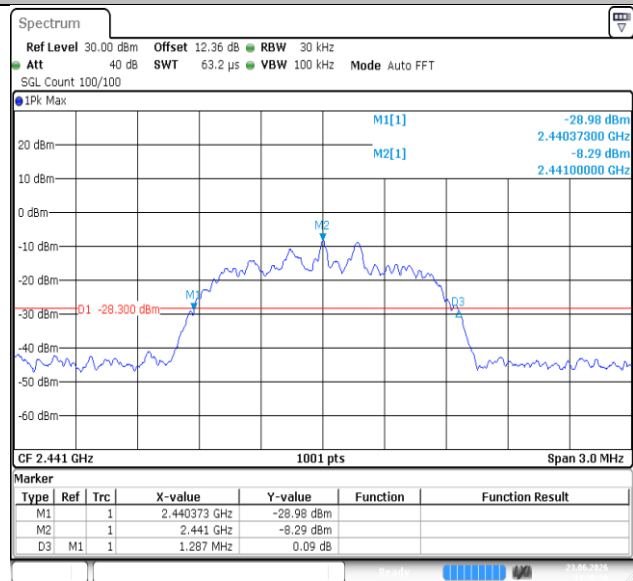


DH5-2480



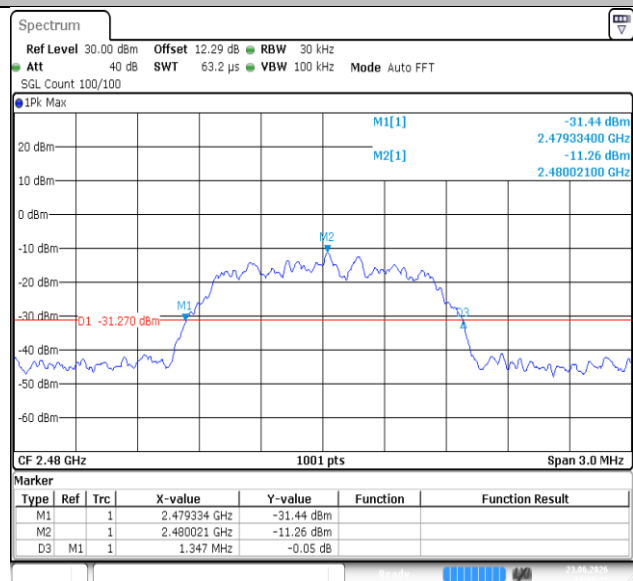
Date: 23 JUN 2026 14:35:01

2DH5-2402



Date: 23 JUN 2026 14:36:31

2DH5-2441



Date: 23 JUN 2026 14:37:43

2DH5-2480

Appendix C: 99% Occupied Bandwidth

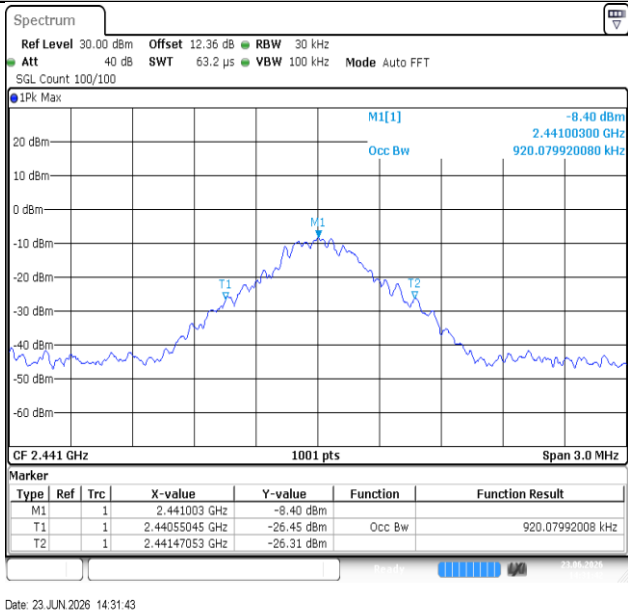
Test Result

TestMode	Frequency[MHz]	99% Occupied Bandwidth [MHz]	Limit[MHz]	Verdict
DH5	2402	0.88711	---	---
DH5	2441	0.92008	---	---
DH5	2480	0.90509	---	---
2DH5	2402	1.2408	---	---
2DH5	2441	1.1898	---	---
2DH5	2480	1.2048	---	---

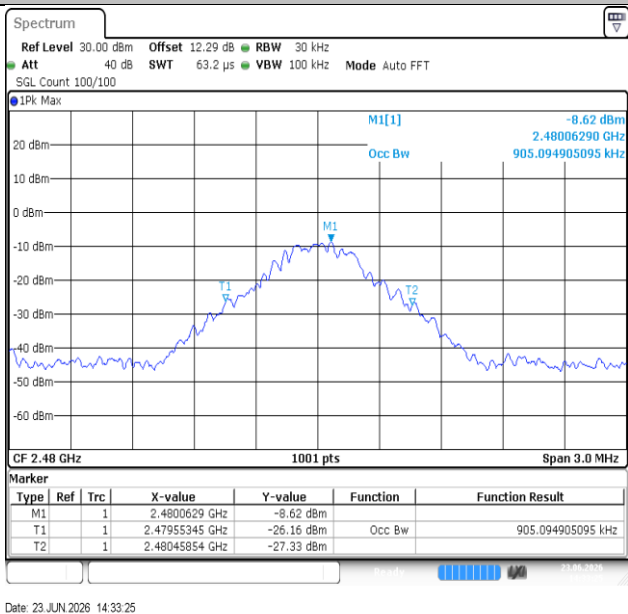
Test Graphs



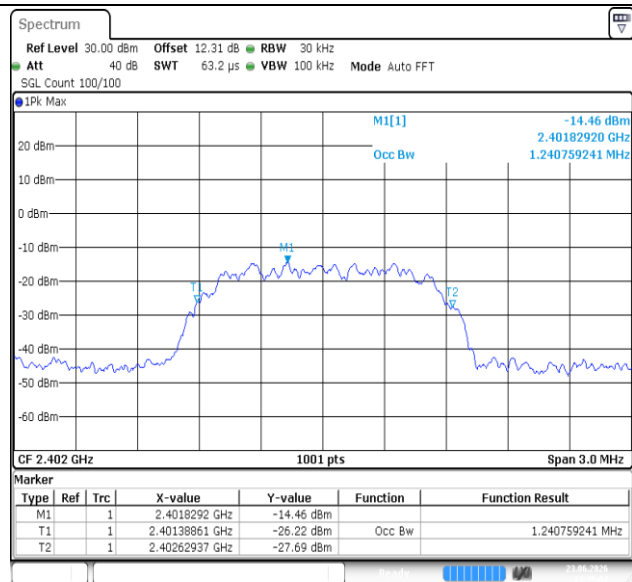
DH5-2402



DH5-2441

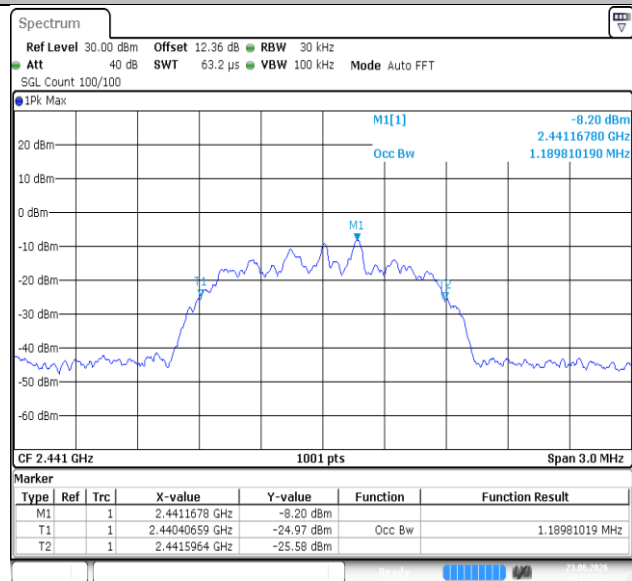


DH5-2480



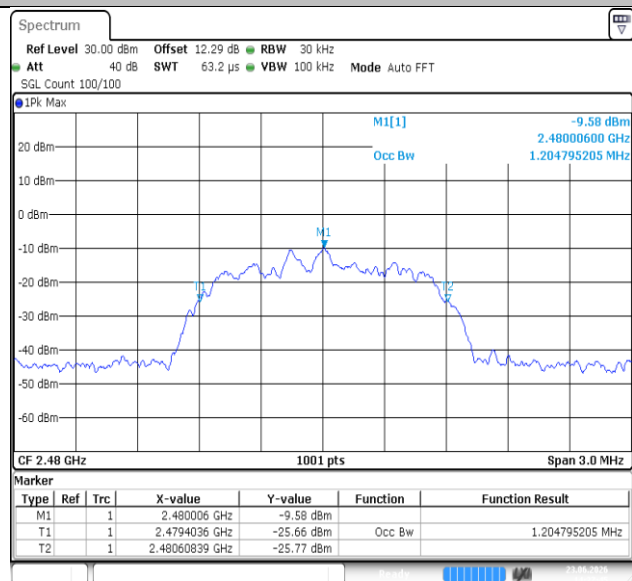
Date: 23 JUN 2026 14:35:04

2DH5-2402



Date: 23 JUN 2026 14:36:33

2DH5-2441



Date: 23 JUN 2026 14:37:45

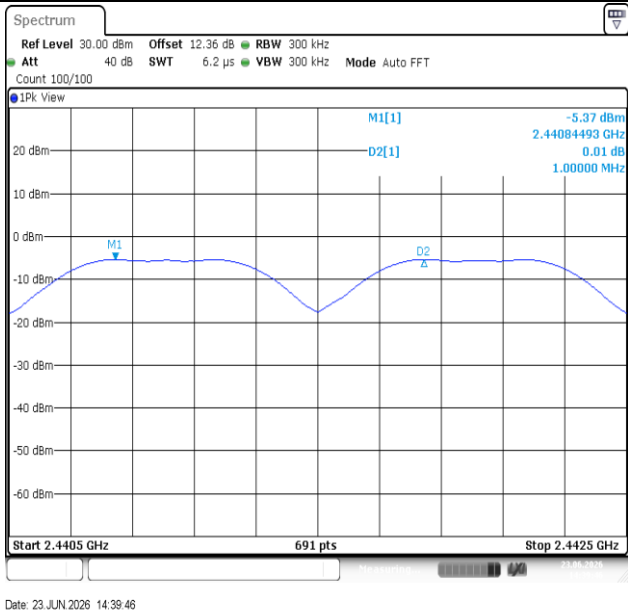
2DH5-2480

Appendix D: Carrier Frequency Separation

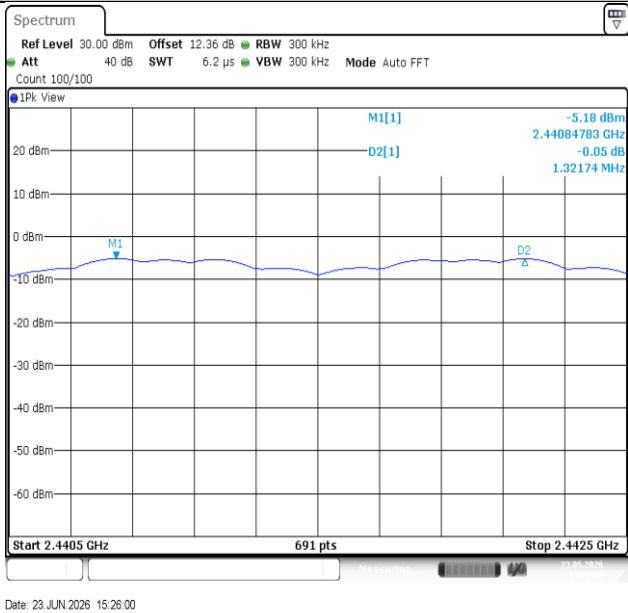
Test Result

TestMode	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Hop	1	≥0.950	PASS
2DH5	Hop	1.322	≥0.900	PASS

Test Graphs



DH5-Hop-PASS



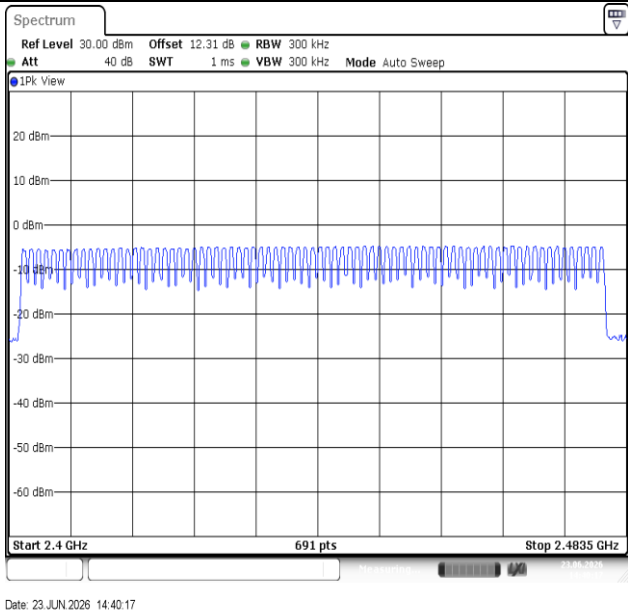
2DH5-Hop-PASS

Appendix E: Hopping Channel Number

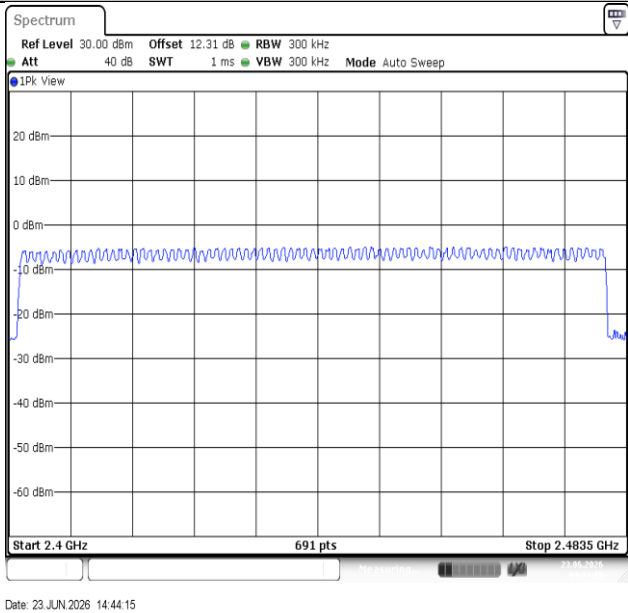
Test Result

TestMode	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Hop	79	≥15	PASS
2DH5	Hop	79	≥15	PASS

Test Graphs



DH5-Hop-PASS



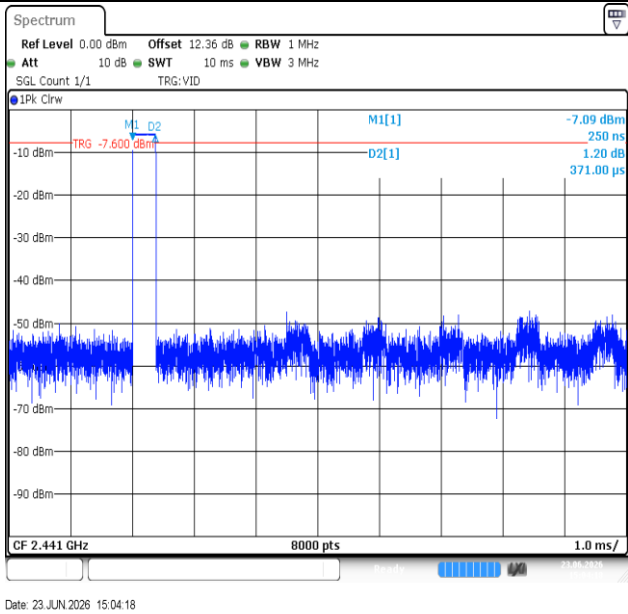
2DH5-Hop-PASS

Appendix F: Dwell Time

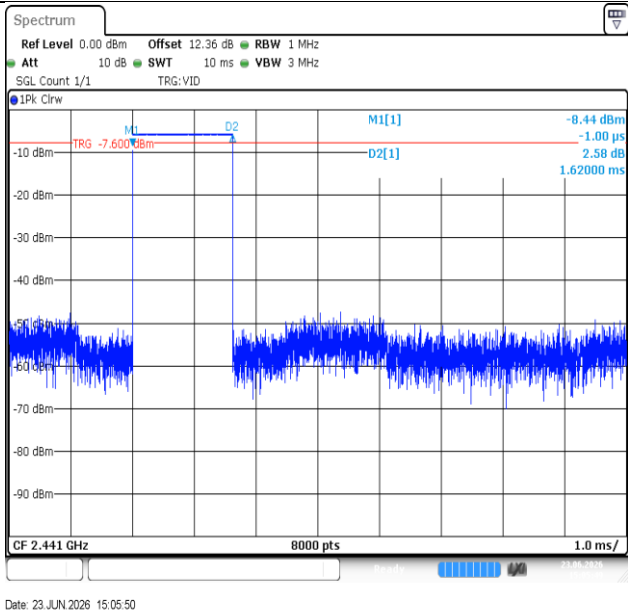
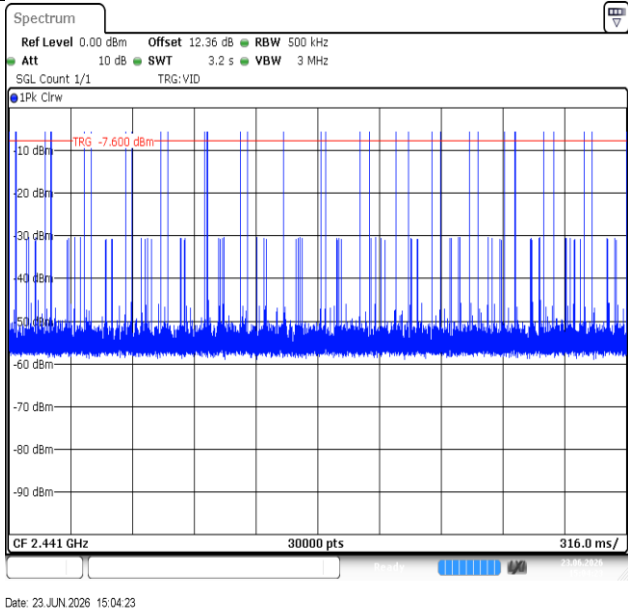
Test Result

TestMode	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Hop	0.371	320	0.119	≤0.4	PASS
DH3	Hop	1.620	170	0.275	≤0.4	PASS
DH5	Hop	2.860	110	0.315	≤0.4	PASS
2DH1	Hop	0.383	330	0.126	≤0.4	PASS
2DH3	Hop	1.626	210	0.341	≤0.4	PASS
2DH5	Hop	2.867	100	0.287	≤0.4	PASS

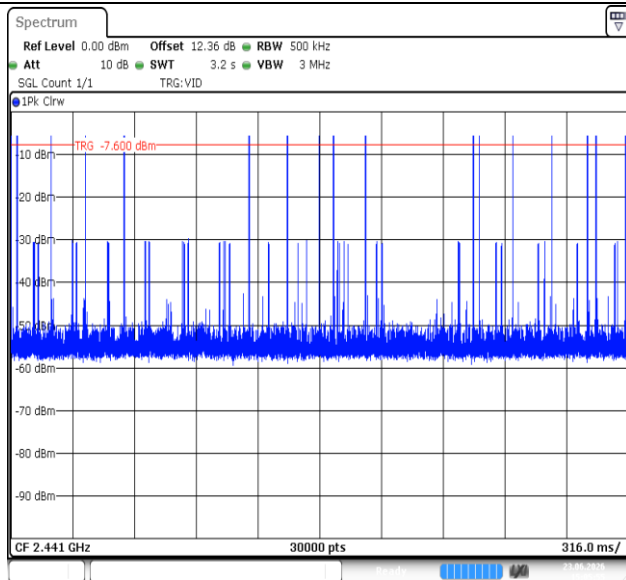
Test Graphs



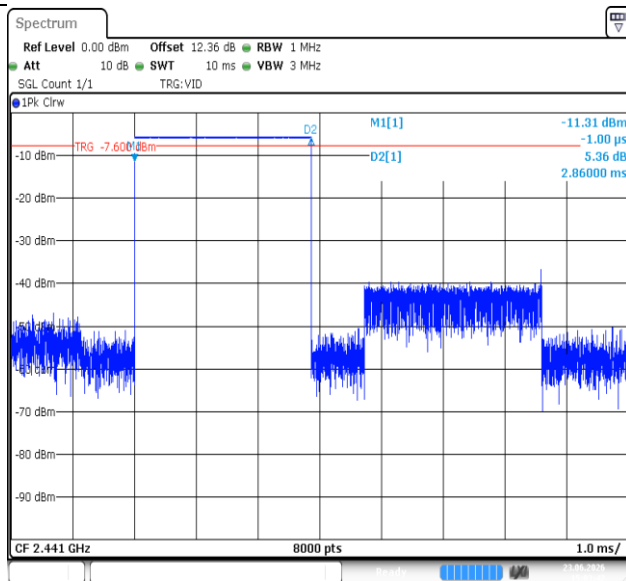
DH1-Hop-PASS



DH3-Hop-PASS

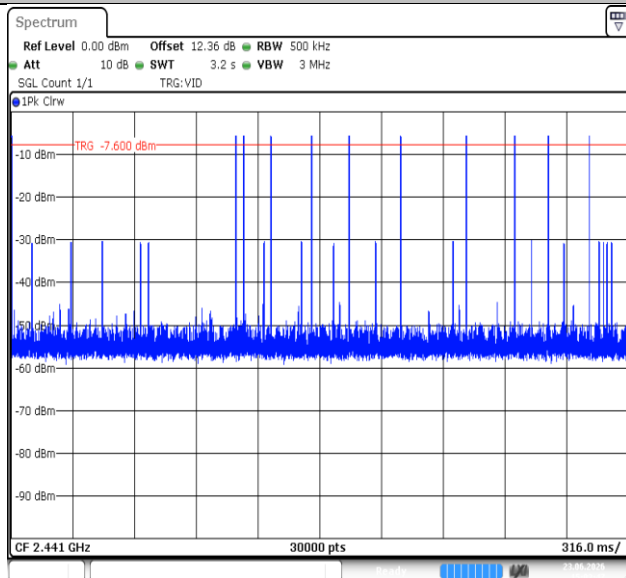


Date: 23 JUN 2026 15:05:55

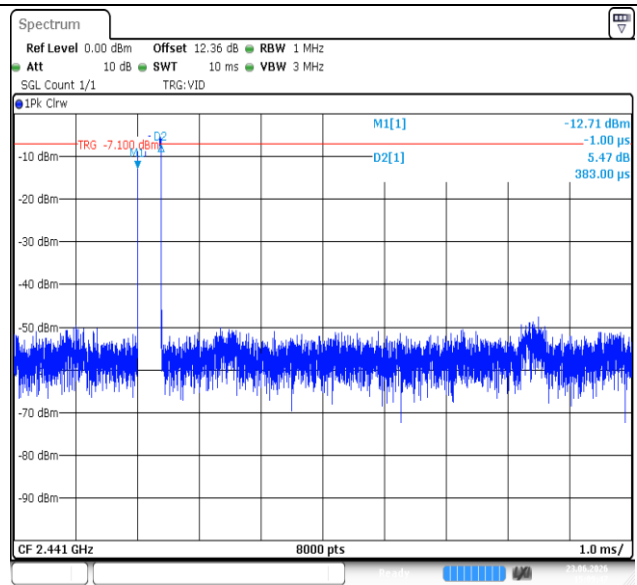


Date: 23 JUN 2026 15:03:42

DH5-Hop-PASS

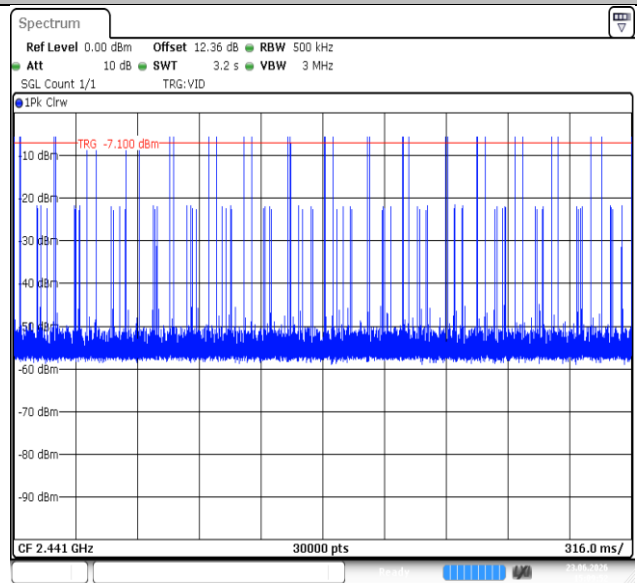


Date: 23 JUN 2026 15:03:47

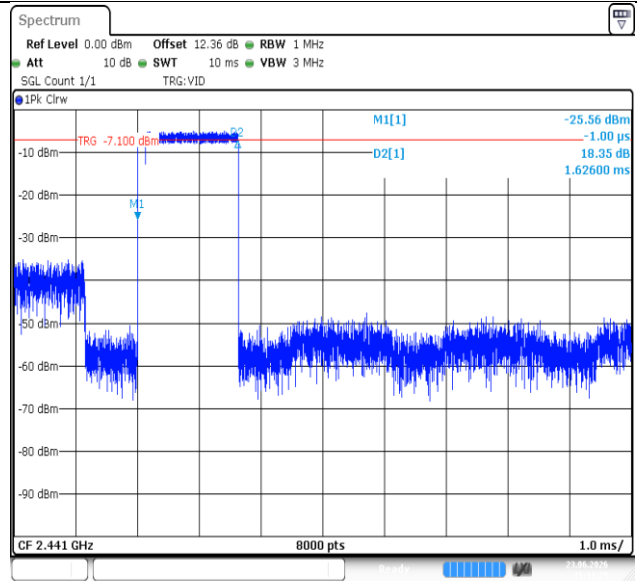


Date: 23 JUN 2026 15:09:47

2DH1-Hop-PASS

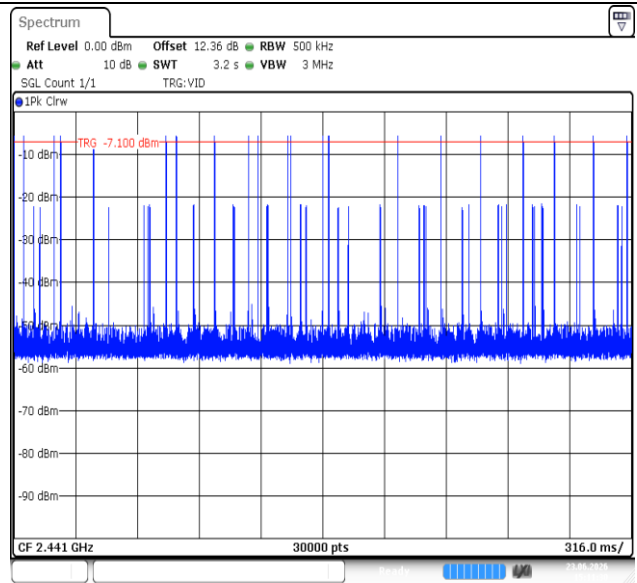


Date: 23 JUN 2026 15:09:52

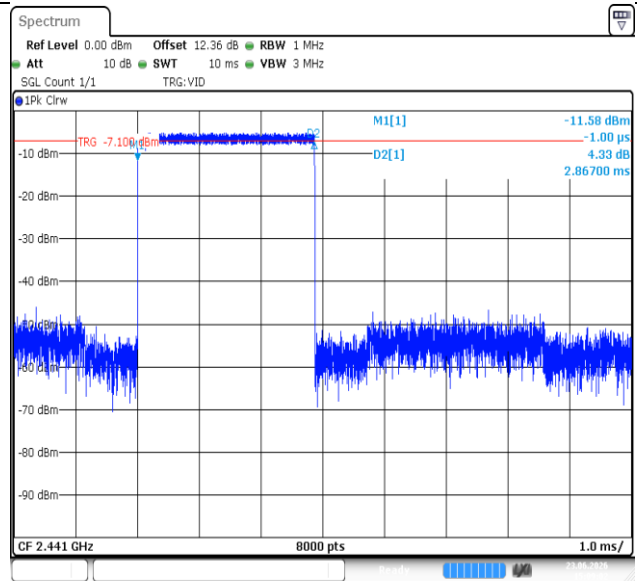


Date: 23 JUN 2026 15:11:25

2DH3-Hop-PASS

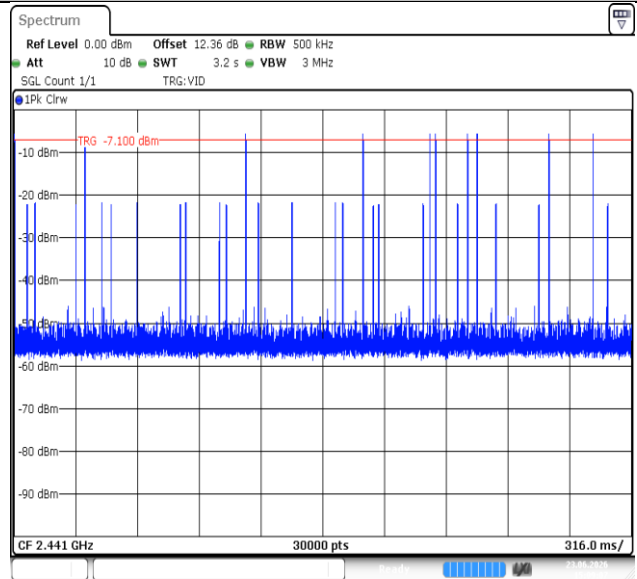


Date: 23 JUN 2026 15:11:31



Date: 23 JUN 2026 15:09:03

2DH5-Hop-PASS



Date: 23 JUN 2026 15:09:08

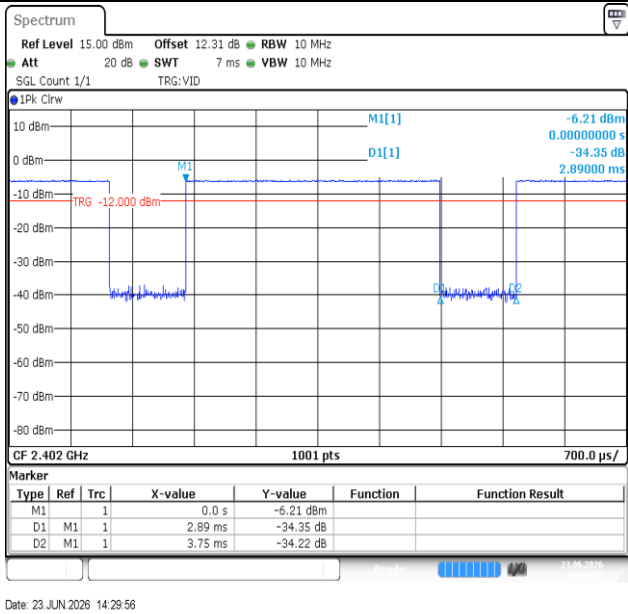
Appendix G: Duty Cycle Correction Factor (DCCF)

Test Result

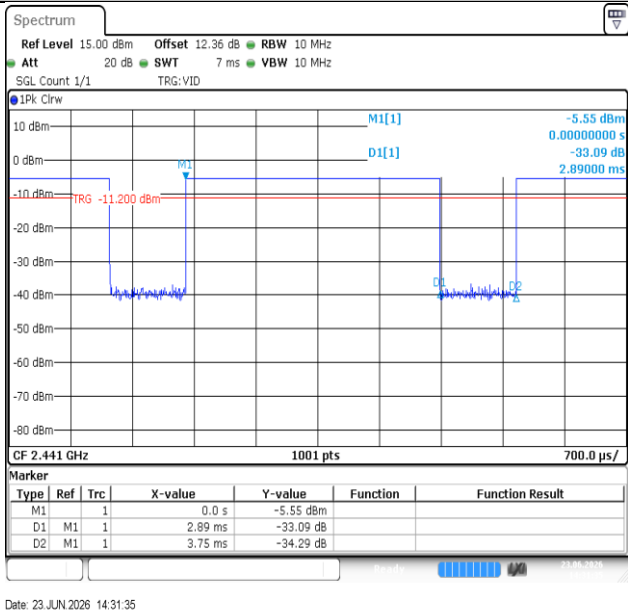
TestMode	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	DCCF [dB]
DH5	2402	2.89	3.75	77.07	1.13	-2.26
DH5	2441	2.89	3.75	77.07	1.13	-2.26
DH5	2480	2.88	3.75	76.80	1.15	-2.26
2DH5	2402	2.89	3.75	77.07	1.13	-2.29
2DH5	2441	2.88	3.75	76.80	1.15	-2.26
2DH5	2480	2.89	3.75	77.07	1.13	-2.29

$$\text{DCCF} = 20 * \text{Log}(\text{duty cycle}) = 20 * \text{Log}(T_{\text{on time}} / T_{\text{period}})$$

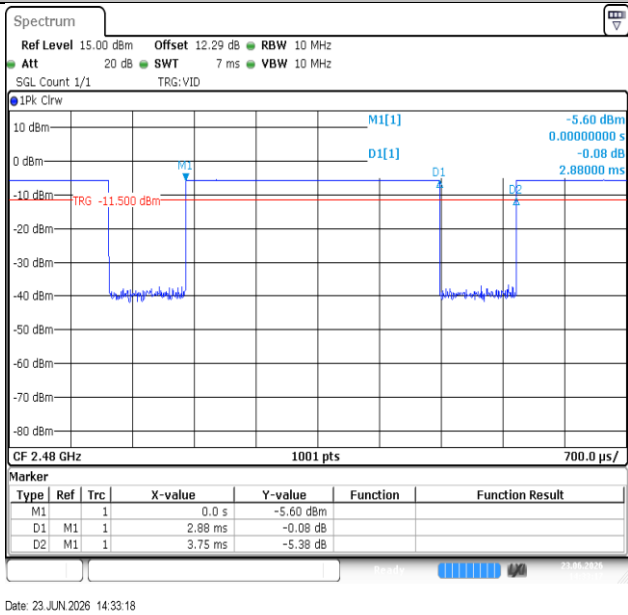
Test Graphs



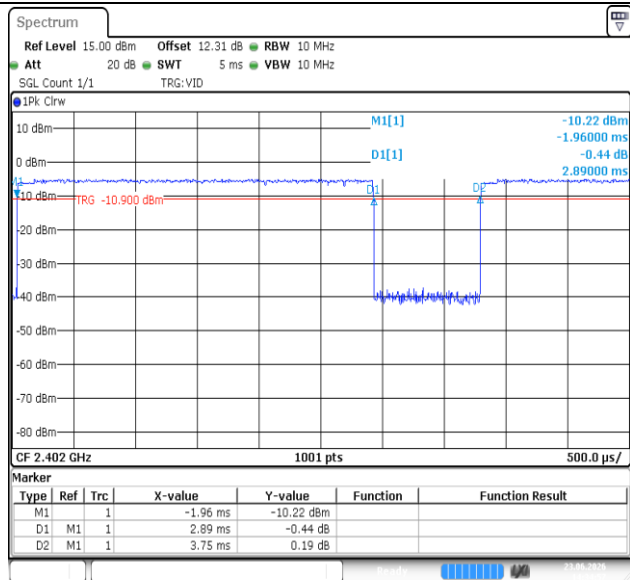
NTNV-DH5-2402



NTNV-DH5-2441

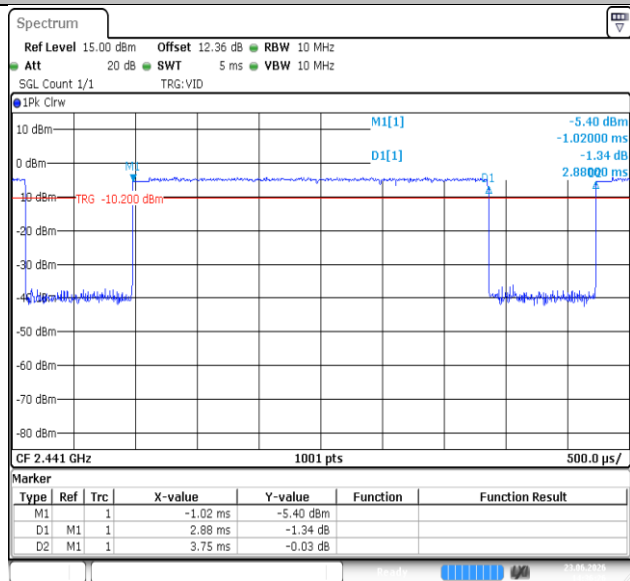


NTNV-DH5-2480



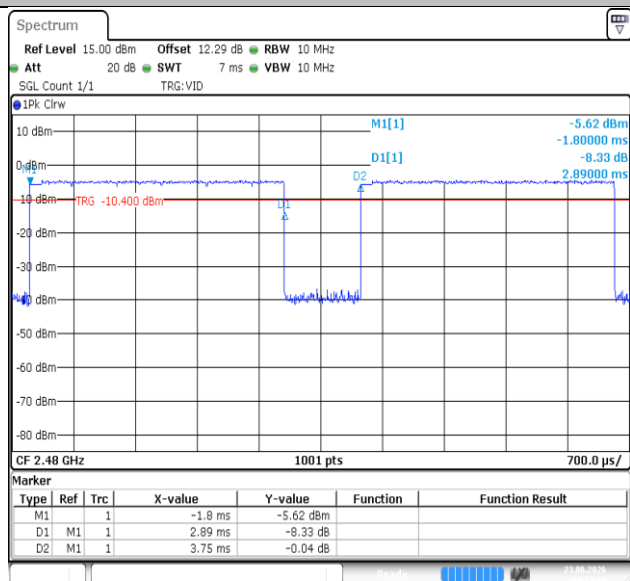
Date: 23 JUN 2026 14:34:57

NTNV-2DH5-2402



Date: 23 JUN 2026 14:36:26

NTNV-2DH5-2441

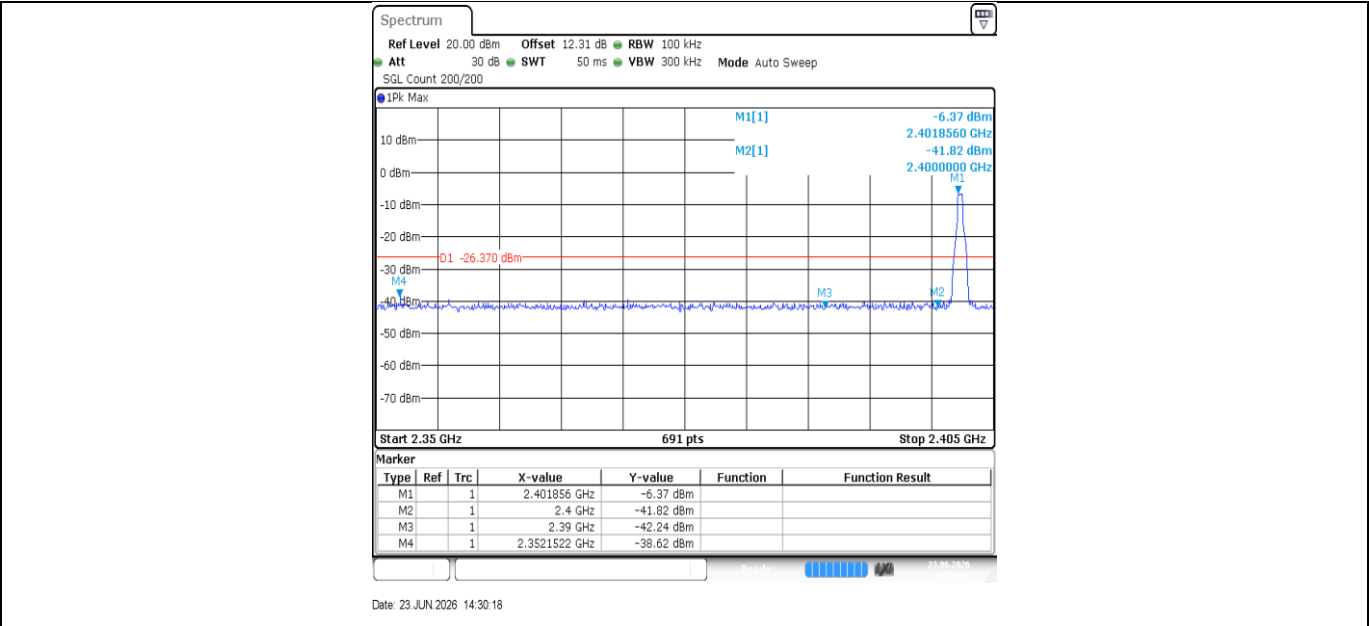


Date: 23 JUN 2026 14:37:38

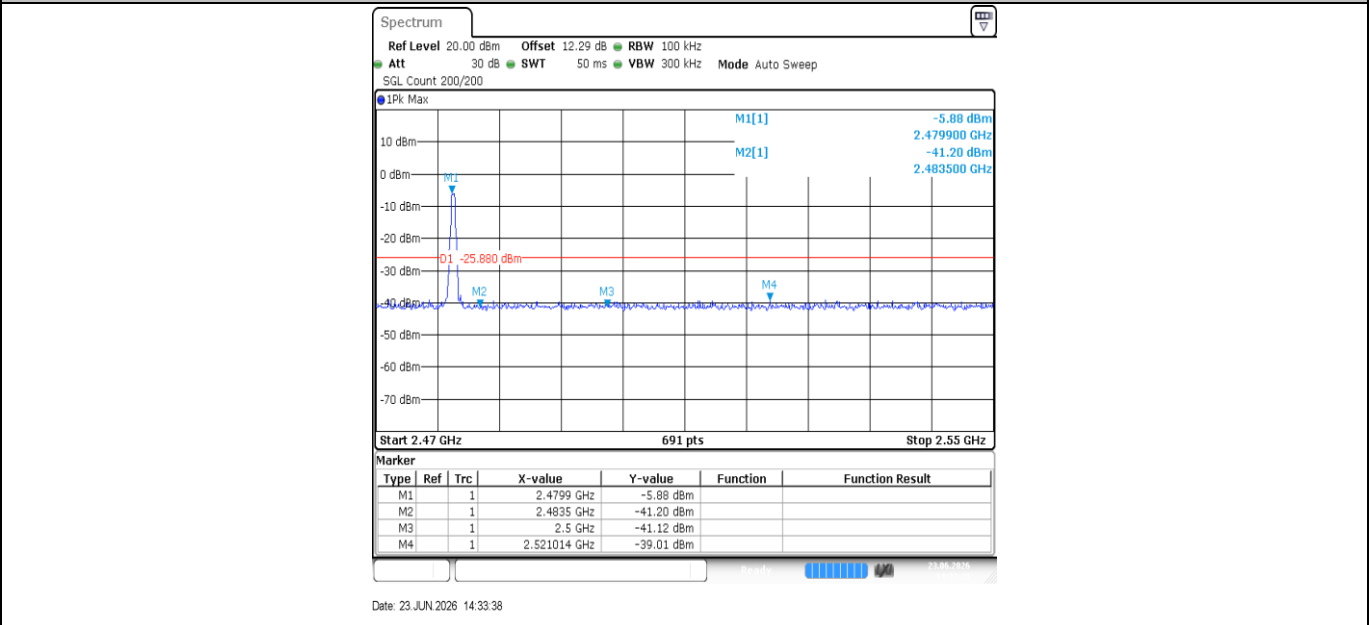
NTNV-2DH5-2480

Appendix H: Band edge and Spurious Emission(Conducted)

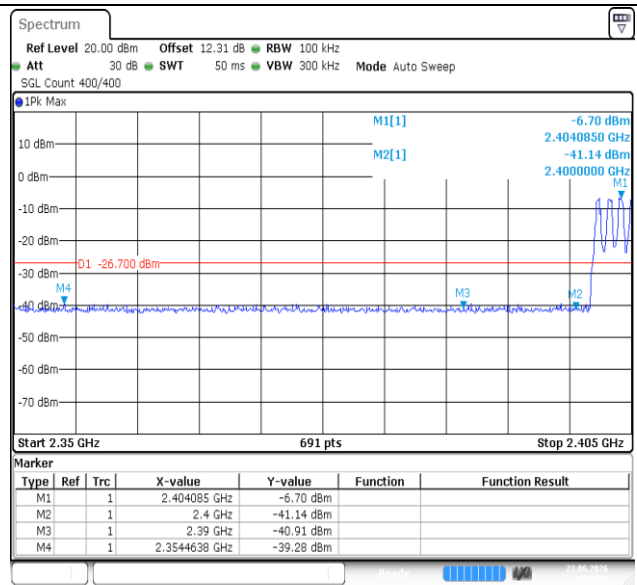
Test Graphs



DH5-2402-PASS

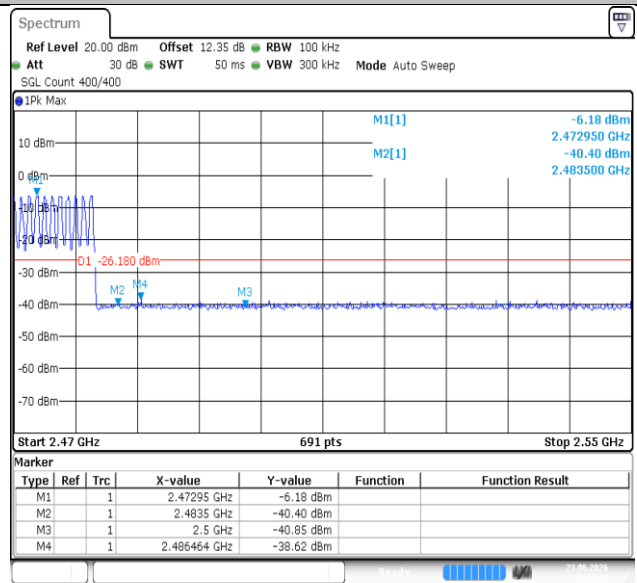


DH5-2480-PASS



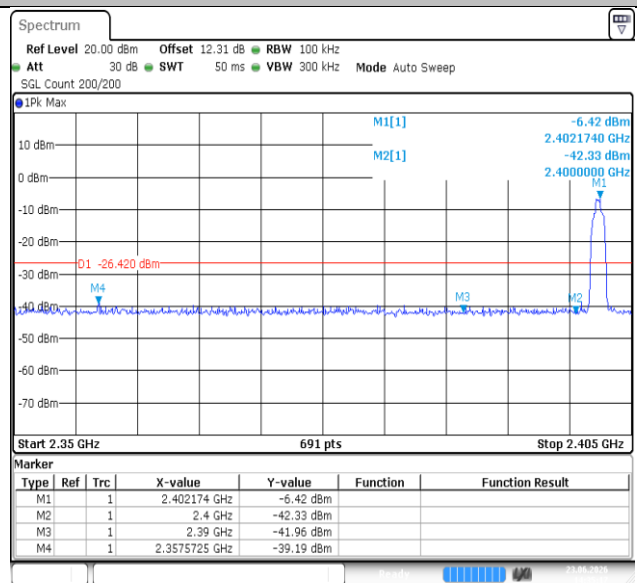
Date: 23 JUN 2026 15:03:27

DH5-Hop_2402-PASS



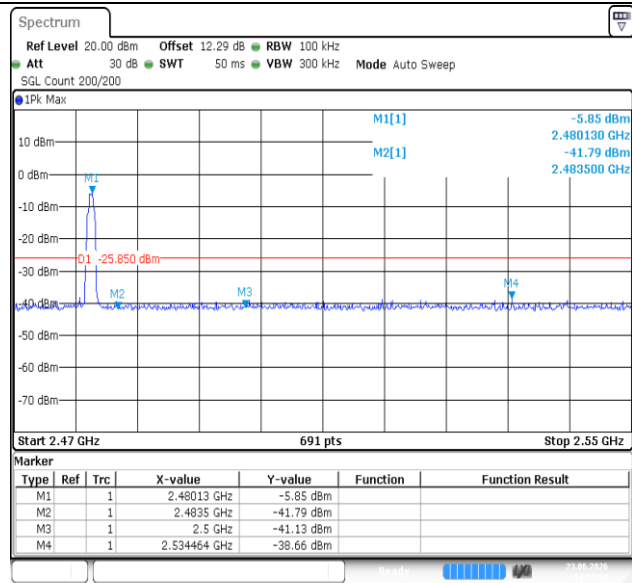
Date: 23 JUN 2026 15:06:58

DH5-Hop_2480-PASS



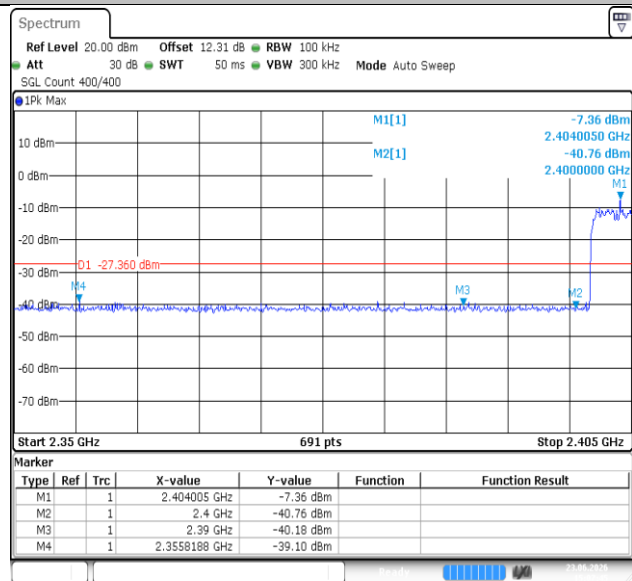
Date: 23 JUN 2026 14:35:17

2DH5-2402-PASS



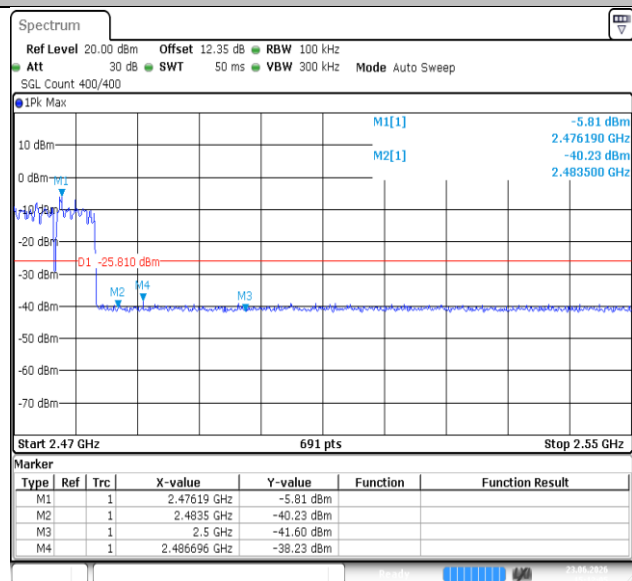
Date: 23 JUN 2026 14:37:59

2DH5-2480-PASS



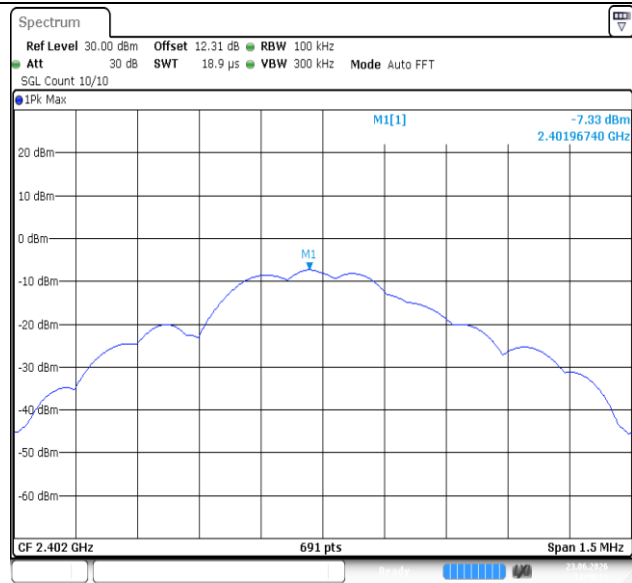
Date: 23 JUN 2026 15:07:45

2DH5-Hop_2402-PASS



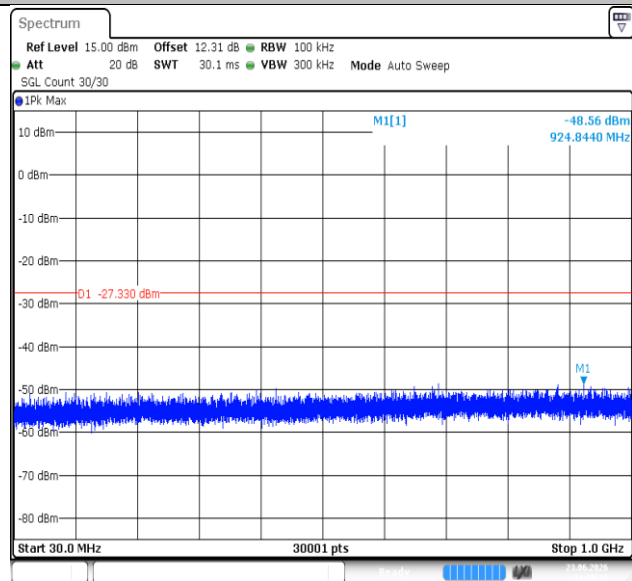
Date: 23 JUN 2026 15:12:05

2DH5-Hop_2480-PASS



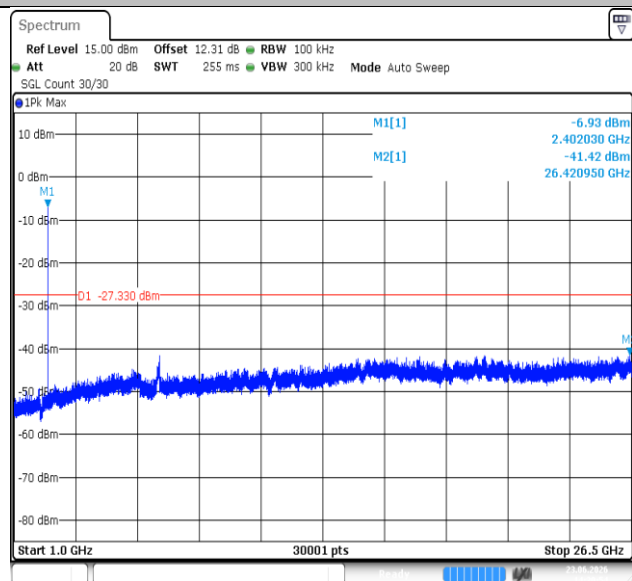
Date: 23 JUN 2026 14:30:21

DH5-2402-0~Reference-PASS



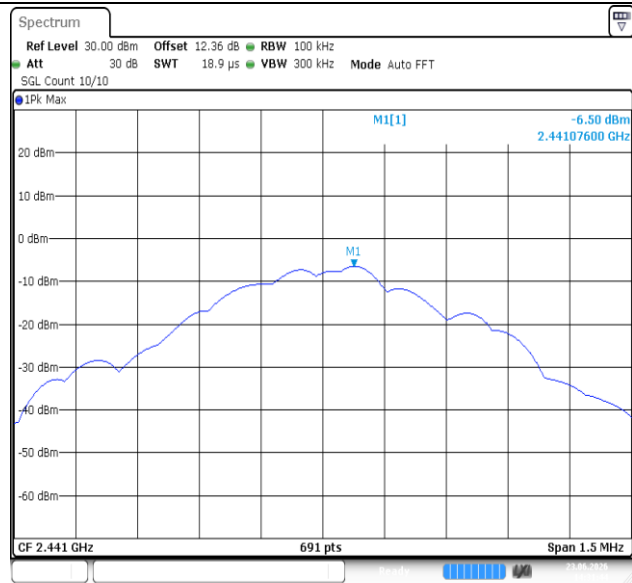
Date: 23 JUN 2026 14:30:26

DH5-2402-30~1000-PASS



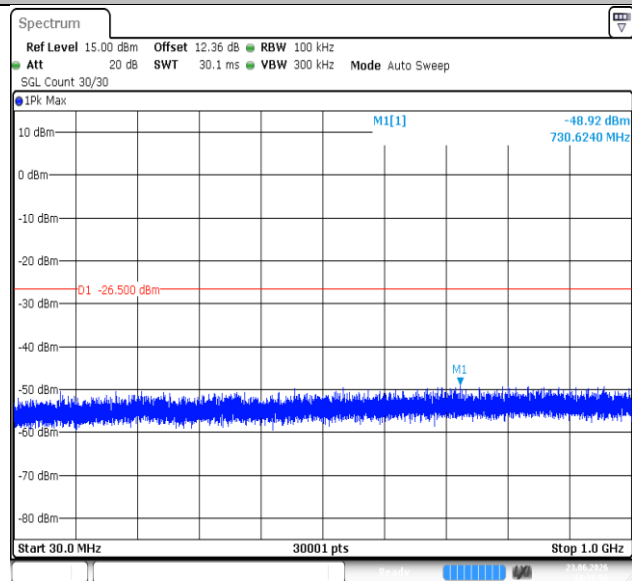
Date: 23 JUN 2026 14:30:54

DH5-2402-1000~26500-PASS



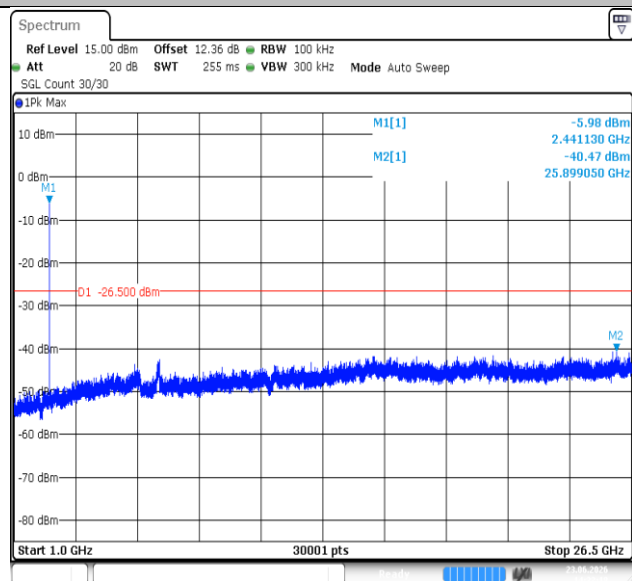
Date: 23 JUN 2026 14:31:45

DH5-2441-0~Reference-PASS



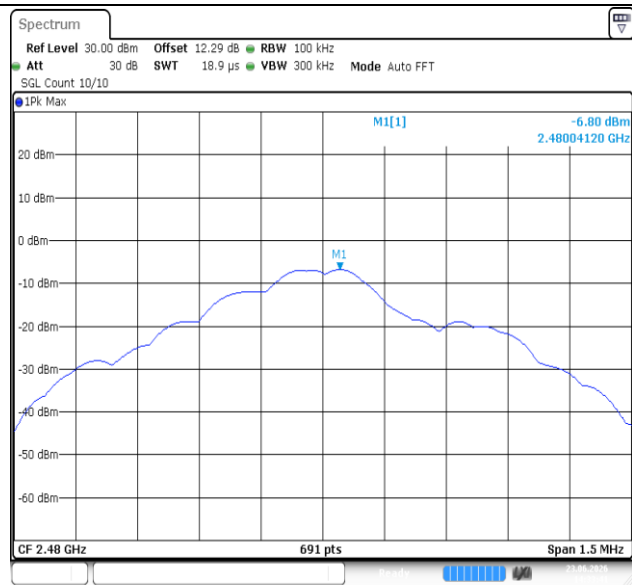
Date: 23 JUN 2026 14:31:51

DH5-2441-30~1000-PASS



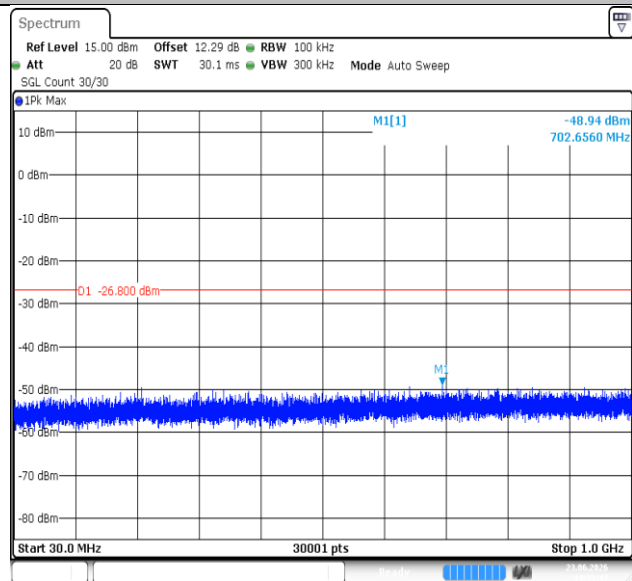
Date: 23 JUN 2026 14:32:18

DH5-2441-1000~26500-PASS



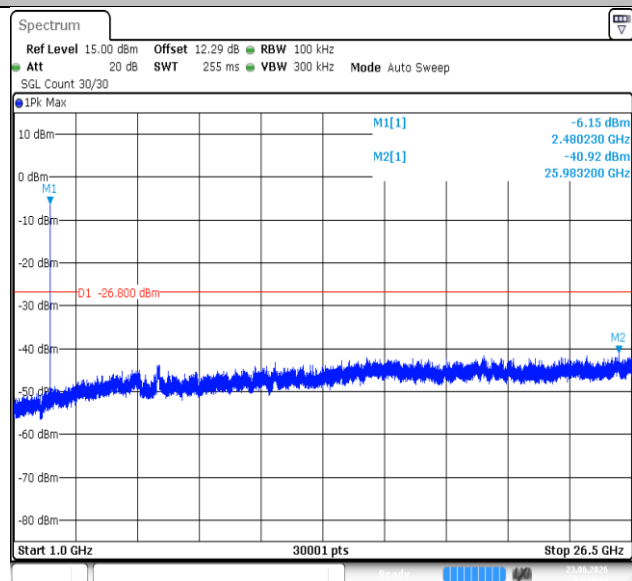
Date: 23 JUN 2026 14:33:41

DH5-2480-0~Reference-PASS



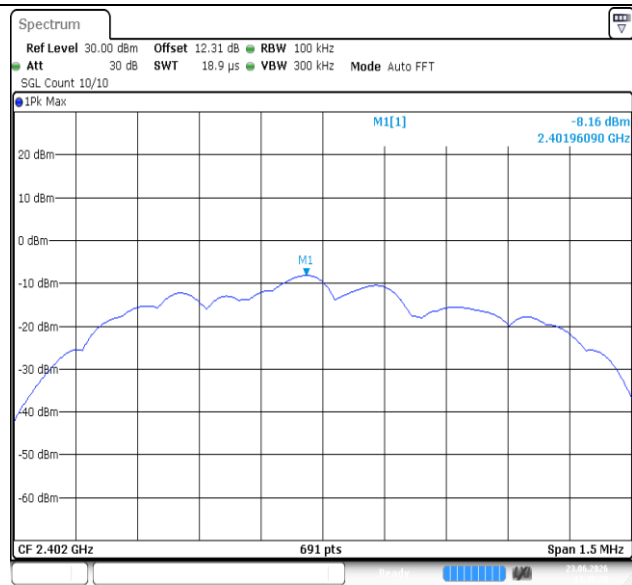
Date: 23 JUN 2026 14:33:47

DH5-2480-30~1000-PASS



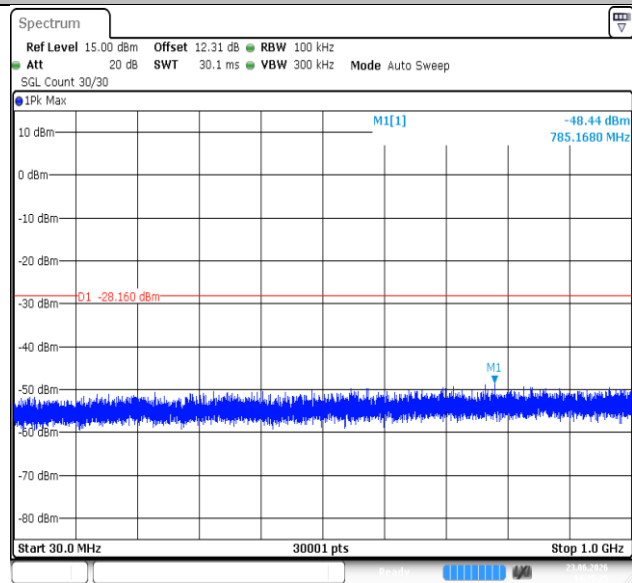
Date: 23 JUN 2026 14:34:14

DH5-2480-1000~26500-PASS



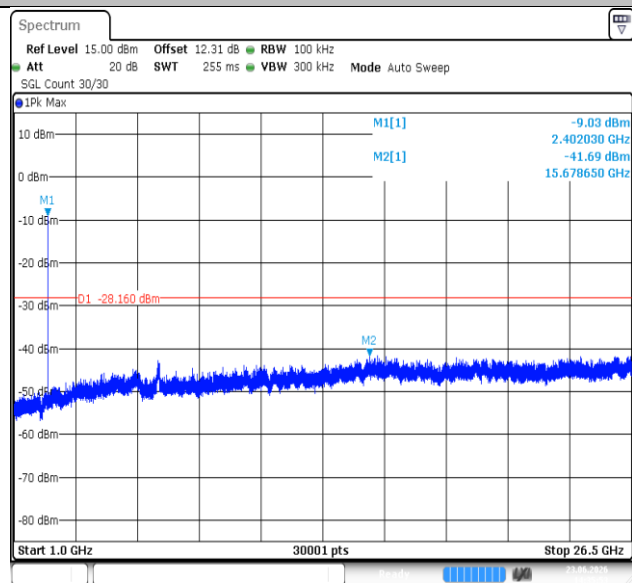
Date: 23 JUN 2026 14:35:20

2DH5-2402-0~Reference-PASS



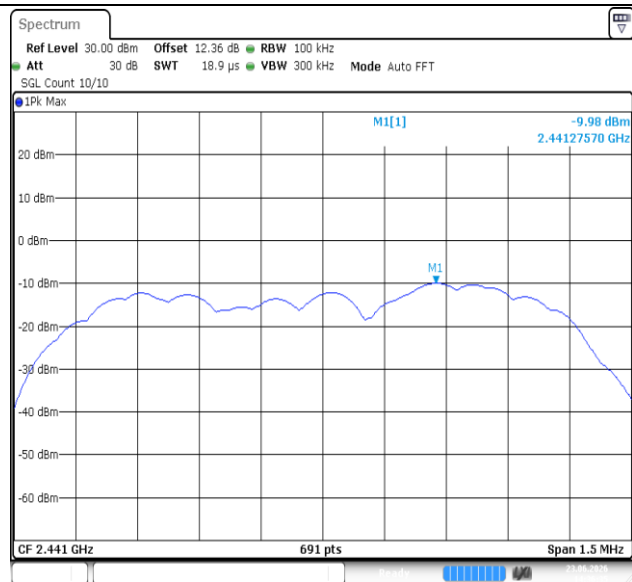
Date: 23 JUN 2026 14:35:26

2DH5-2402-30~1000-PASS



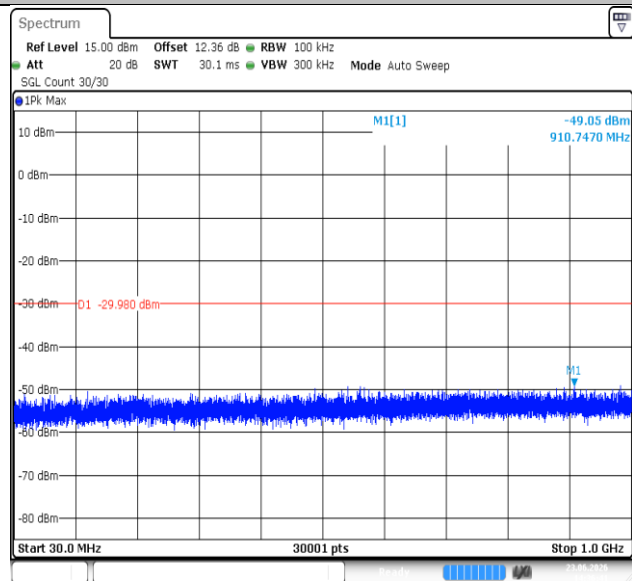
Date: 23 JUN 2026 14:35:53

2DH5-2402-1000~26500-PASS



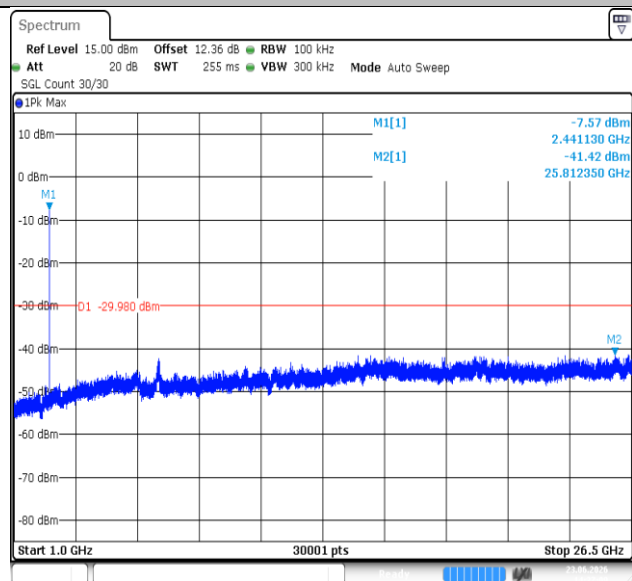
Date: 23 JUN 2026 14:36:36

2DH5-2441-0~Reference-PASS



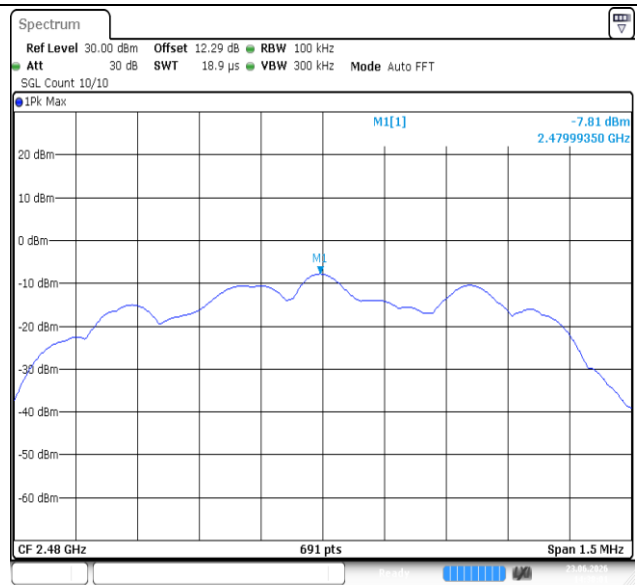
Date: 23 JUN 2026 14:36:41

2DH5-2441-30~1000-PASS



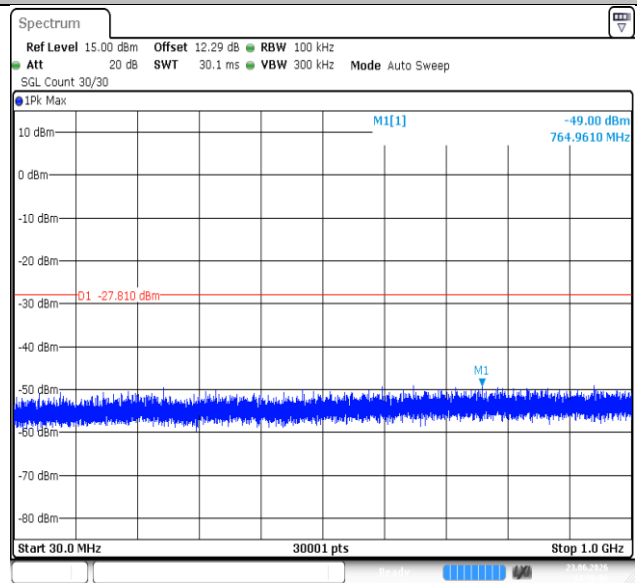
Date: 23 JUN 2026 14:37:09

2DH5-2441-1000~26500-PASS



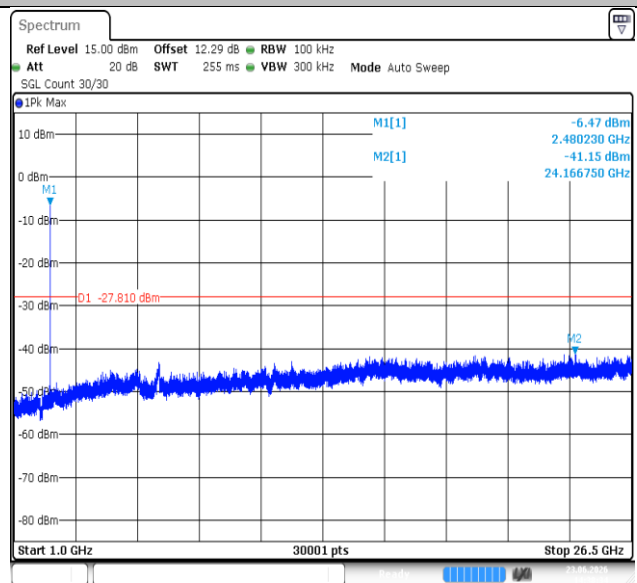
Date: 23 JUN 2026 14:38:02

2DH5-2480-0~Reference-PASS



Date: 23 JUN 2026 14:38:07

2DH5-2480-30~1000-PASS



Date: 23 JUN 2026 14:38:35

2DH5-2480-1000~26500-PASS

-----End of Report-----