FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 Issue 4

TEST REPORT

For

MOONDROP Pudding ANC TWS Earphones; HATSUNE MIKU X MOONDROP MirageReal-Time Adaptive Active Noise Cancellation·Hi-Fi TWS

MODEL NUMBER: MD-TWS-056

REPORT NUMBER: 4792219658-1-RF-1

ISSUE DATE: June 9, 2026

FCC ID: 2AY45-MD-TWS-056-L
IC: 30336-MDTWS056

Prepared for

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 9, 2026	Initial Issue	

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Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC 15.203 RSS-GEN Clause 6.8	Pass (NOTE 2)
AC Power Line Conducted Emission	ANSI C63.10-2020 Clause 6.2	FCC Part 15.207	N/A
Conducted Output Power	ANSI C63.10-2020 Clause 7.8.5	FCC 15.247 (b) (1) RSS-247 Clause 6.2.3.2	Pass
20 dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2020 Clause 6.9.2 & 6.9.3	FCC 15.247 (a) (1) RSS-247 Clause 6.2.3.1 (a) RSS-Gen Clause 6.7	Pass
Carrier Hopping Channel Separation	ANSI C63.10-2020 Clause 7.8.2	FCC 15.247 (a) (1) RSS-247 Clause 6.2.3.1 (a)	Pass
Number of Hopping Frequency	ANSI C63.10-2020 Clause 7.8.3	15.247 (a) (1) III RSS-247 Clause 6.2.3.1 (b)	Pass
Time of Occupancy (Dwell Time)	ANSI C63.10-2020 Clause 7.8.4	15.247 (a) (1) III RSS-247 Clause 6.2.3.1 (b)	Pass
Conducted Bandedge and Spurious Emission	ANSI C63.10-2020 Clause 6.10.4 & Clause 7.8.7	FCC 15.247 (d) RSS-247 Clause 6.6	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2020 Clause 6.4 & 6.5 & 6.6 & 7.8.8	FCC 15.247 (d) FCC 15.209 FCC 15.205 RSS-247 Clause 6.6 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10	Pass
Duty Cycle	ANSI C63.10-2020, Clause 11.6	None; for reporting purposes only.	Pass

Note:
1. N/A: In this whole report not applicable.
2. For FCC & ISED, this report is also performed according to ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 standards.

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
*The measurement result for the sample received is <Pass> according to <FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 Issue 4> when <Simple Acceptance> decision rule is applied. Decision rule for statement of conformity: The measurement uncertainty is not taken into account for statement of conformity.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	Chengdu shuiyueyu technology Co.,Ltd
Address:	4F, Building 2, No.606, Haike Road West Haixia Technology Industry Park, Wenjiang District, Chengdu, China

Manufacturer Information

Company Name:	Chengdu shuiyueyu technology Co.,Ltd
Address:	4F, Building 2, No.606, Haike Road West Haixia Technology Industry Park, Wenjiang District, Chengdu, China

EUT Information

EUT Name:	MOONDROP Pudding ANC TWS Earphones; HATSUNE MIKU X MOONDROP MirageReal-Time Adaptive Active Noise Cancellation·Hi-Fi TWS
Model:	MD-TWS-056
Sample Received Date:	April 23, 2026
Sample Status:	Normal
Sample ID:	9671140
Date of Tested:	April 24, 2026 to June 8, 2026

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47 CFR PART 15 SUBPART C **ISED RSS-247 Issue 4**	**Pass**

Prepared By:

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Daniel Zhang

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Checked By:

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Kebo Zhang

Operations Leader

Approved By:

Stephen Guo

Stephen Guo

Operations Manager

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2. TEST METHODOLOGY

All tests were performed in accordance with the standard FCC 47 CFR PART 15 SUBPART C ISED RSS-247 Issue 4, KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, FCC 47 CFR Part 2, ANSI C63.10-2020, ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	**A2LA (Certificate No.: 4102.01)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. **FCC (FCC Designation No.: CN1187)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. **ISED (Company No.: 21320)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. **VCCI (Registration No.: C-20202, G-20240, R-20248 and T-20202)** UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202

Note 1:
All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, China.

Note 2:
The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd.
Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3:
For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

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4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	4.36 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.47 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.65 dB (1 GHz ~ 18 GHz)
	4.73 dB (18 GHz ~ 26 GHz)
Duty Cycle	±0.028%
20dB Emission Bandwidth and 99% Occupied Bandwidth	±0.0196%
Carrier Frequency Separation	±1.9%
Maximum Conducted Output Power	±0.743 dB
Number of Hopping Channel	±1.9%
Time of Occupancy	±0.028%
Conducted Band-edge Compliance	±1.328 dB
Conducted Unwanted Emissions In Non-restricted Frequency Bands	±0.746 dB (9 kHz ~ 1 GHz)
	±1.328dB (1 GHz ~ 26 GHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

Remark: For Radiated Emission measurements (200 MHz - 18 GHz), the EUT support table is made of Expanded Polystyrene (EPS). This material is characterized by a low dielectric constant, as recognized in CISPR 16-1-4, to minimize its influence on field strength measurements. This influence has been considered in the uncertainty budget.

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name A	MOONDROP Pudding ANC TWS Earphones
EUT Name B	HATSUNE MIKU X MOONDROP MirageReal-Time Adaptive Active Noise Cancellation·Hi-Fi TWS
EUT Name difference	Only the exterior color is different, everything else is the same.
Model	MD-TWS-056
Earphone side:	Left

Frequency Range:	2402 MHz to 2480 MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, Π/4DQPSK, 8DPSK
Normal Test Voltage:	DC 3.7V

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5.2. CHANNEL LIST

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/

5.3. MAXIMUM POWER

Test Mode	Frequency (MHz)	Channel Number	Maximum Peak Output Power (dBm)	Maximum EIRP (dBm)
GFSK	2402 ~ 2480	0-78[79]	2.21	4.91
8DPSK	2402 ~ 2480	0-78[79]	2.84	5.54

Note:
1. Maximum peak output power = measured value + cable loss (provided by UL) + cable loss (provided by UL or client)
2. Maximum EIRP = maximum peak output power + antenna gain

Test Mode	Frequency (MHz)	Channel Number	Maximum AVG Output Power (dBm)	Maximum EIRP (dBm)
GFSK	2402 ~ 2480	0-78[79]	0.47	3.17
8DPSK	2402 ~ 2480	0-78[79]	-0.74	1.96

Note:
1. Maximum AVG output power = measured value + cable loss (provided by UL) + cable loss (provided by UL or client)
2. Maximum EIRP = maximum peak output power + antenna gain

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5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
GFSK-DH5	CH 00(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz
8DPSK-3DH5	CH 00(Low Channel), CH 39(MID Channel), CH 78(High Channel)	2402 MHz, 2441 MHz, 2480 MHz
GFSK-DH5	Hopping	
8DPSK-3DH5	Hopping	

PACKET TYPE CONFIGURATION

Test Mode	Packet Type	Setting (Packet Length)
GFSK	DH1	27
	DH3	183
	DH5	339
∏/4-DQPSK	2-DH1	54
	2-DH3	367
	2-DH5	679
8DPSK	3-DH1	83
	3-DH3	552
	3-DH5	1021

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5.5. THE WORSE CASE POWER SETTING PARAMETER

WORST-CASE CONFIGURATIONS

Bluetooth Mode	Modulation Technology	Modulation Type	Data Rate (Mbps)
BR	FHSS	GFSK	1Mbit/s
EDR	FHSS	8DPSK	3Mbit/s

Note: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates.

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		FCC_assist1.0.4		
Modulation Type	Transmit Antenna Number	Test Software setting value		
		CH 00	CH 39	CH 78
GFSK	1	10	10	10
8DPSK	1	10	10	10

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2402-2480	Ceramic Antenna	2.7

Note: The antenna gain is provided by client.

Test Mode	Transmit and Receive Mode	Description
GFSK	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
8DPSK	☒1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
Note: 1.BT&BLE can't transmit simultaneously. (declared by client)		

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5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remark
1	Charging box	MOONDROP	MD-TWS-056	Provided by client

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
/	/	/	/	/	/

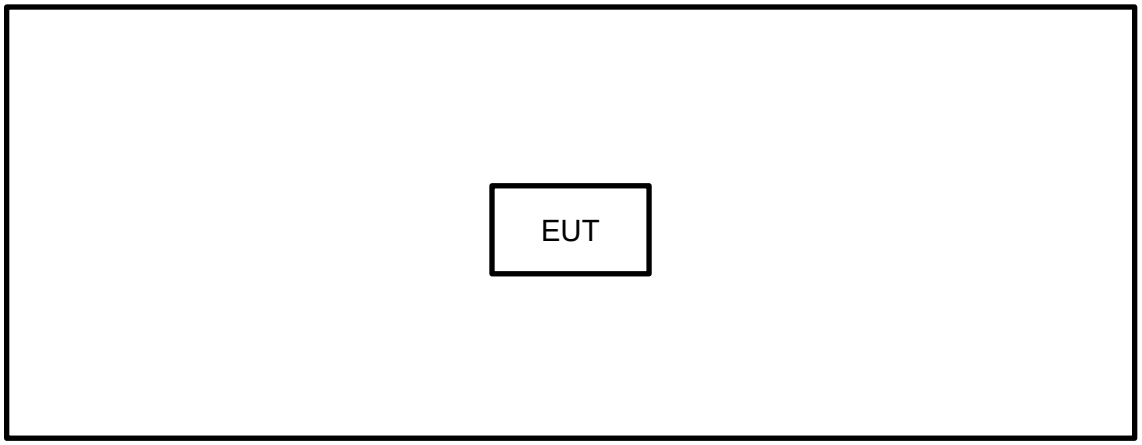
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through the charging box and can transmit constantly without the charging box.

SETUP DIAGRAM FOR TESTS



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6. MEASURING EQUIPMENT AND SOFTWARE USED

R&S TS 8997 Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Power sensor, Power Meter	R&S	OSP120	100921	Dec.26,2025	Dec.25,2026
Vector Signal Generator	R&S	SMBV100A	261637	Sep.12, 2025	Sep.11, 2026
Signal Generator	R&S	SMB100A	178553	Sep.12, 2025	Sep.11, 2026
Signal Analyzer	R&S	FSV40	101118	Sep.12, 2025	Sep.11, 2026

Software			
Description	Manufacturer	Name	Version
For R&S TS 8997 Test System	Rohde & Schwarz	EMC 32	10.60.10

Tonsend RF Test System					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.12, 2025	Sep.11, 2026
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Sep.12, 2025	Sep.11, 2026
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Sep.12, 2025	Sep.11, 2026
DC power supply	TSSTAKASAGO	ZX-400L	409150160137	Sep.12, 2025	Sep.11, 2026
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Sep.12, 2025	Sep.11, 2026
Attenuator	Aglient	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026
RF Control Unit	Tonscend	JS0806-2	23B80620666	Dec.26,2025	Dec.25,2026

Software			
Description	Manufacturer	Name	Version
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System	V3.2.22

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Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Sep.12, 2025	Sep.11, 2026
Two-Line V-Network	R&S	ENV216	101983	Sep.12, 2025	Sep.11, 2026
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Sep.12, 2025	Sep.11, 2026
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions(Below 1G)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Sep.12, 2025	Sep.11, 2026
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	June 28, 2024	June.27 2027
Preamplifier	HP	8447D	2944A09099	Sep.12, 2025	Sep.11, 2026
Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08, 2027
Software					
Description			Manufacturer	Name	Version
Test Software for Radiated Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions(Above 1G)					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Signal Analyzer	R&S	FSV40	101117	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-001-3000	TRS-302-00051	Sep.12, 2025	Sep.11, 2026
Horn Antenna	ETS-Lindgren	3117	00213191	Jan.29,2026	Jan.28,2029
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep.12, 2025	Sep.11, 2026
High Gain Horn Antenna	Schwarzbeck	BBHA-9170	697	Jun. 30, 2024	Jun. 29, 2027
Preamplifier	TDK	PA-02-2	TRS-307-00002	Sep.12, 2025	Sep.11, 2026
Preamplifier	TDK	PA-02-3	TRS-308-00002	Sep.12, 2025	Sep.11, 2026
Highpass Filter	Wainwright	WHKX10-2700-3000-1800-40SS	24	Sep.12, 2025	Sep.11, 2026

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Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Sep.12, 2025	Sep.11, 2026

Software			
Description	Manufacturer	Name	Version
Test Software for Radiated Emission	Tonscend	JS32-RE	5.0.0
Test Software for Radiated Emissions	Farad	EZ-EMC	Ver. UL-3A1

Other Instrument					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Temperature humidity probe	OMEGA	ITHX-SD-5	18470007	Sep.16, 2025	Sep.15, 2026
Barometer	Yiyi	Baro	N/A	Sep.19, 2025	Sep.18, 2026
Attenuator	Agilent	8495B	2814a12853	Sep.12, 2025	Sep.11, 2026

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7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

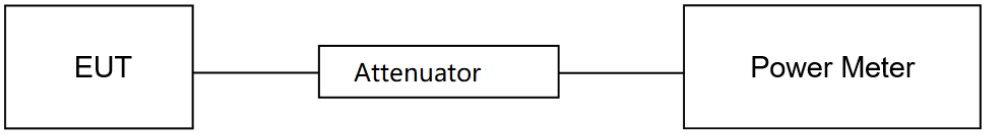
LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247 (b) (1) ISED RSS-247 Clause 6.2.3.2	Peak Conducted Output Power	Hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel: 1 watt or 30 dBm; Hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel: 125 mW or 21 dBm	2400-2483.5

TEST PROCEDURE

Connect the EUT to a low loss RF cable from the antenna port to the power sensor (video bandwidth is greater than the occupied bandwidth).
Measure peak emission level, the indicated level is the peak output power, after any corrections for external attenuators and cables.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix C

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7.2. 20 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247 (a) (1) RSS-247 Clause 6.2.3.1 (a)	20 dB Bandwidth	None; for reporting purposes only.	2400-2483.5
ISED RSS-Gen Clause 6.7	99 % Occupied Bandwidth	None; for reporting purposes only.	2400-2483.5

TEST PROCEDURE

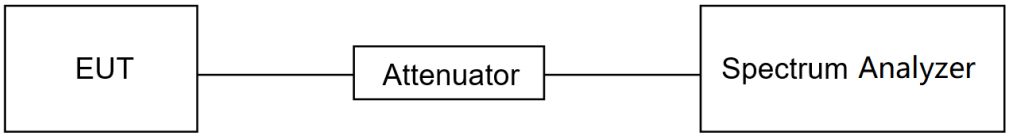
Refer to ANSI C63.10-2020 clause 6.9.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 20 dB Bandwidth: 1 % to 5 % of the 20 dB bandwidth For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 20 dB Bandwidth: approximately 3×RBW For 99 % Occupied Bandwidth: ≥ 3×RBW
Span	Between 2 times and 5.0 times the OBW
Trace	Max hold
Sweep	Auto couple

a) Use the occupied bandwidth function of the instrument, allow the trace to stabilize and report the measured 99 % occupied bandwidth and 20 dB Bandwidth.

TEST SETUP



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TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix A&B

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7.3. CARRIER HOPPING CHANNEL SEPARATION

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4			
Section	Test Item	Limit	Frequency Range (MHz)
FCC 47 CFR 15.247 (a) (1) ISED RSS-247 Clause 6.2.3.1 (a)	Carrier Frequency Separation	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.	2400-2483.5

TEST PROCEDURE

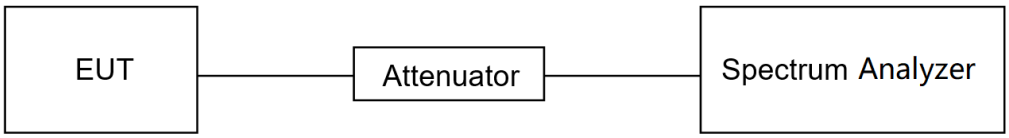
Refer to ANSI C63.10-2020 clause 7.8.2.

Connect the EUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Span	wide enough to capture the peaks of two adjacent channels
Detector	Peak
RBW	Start with the RBW set to approximately 30 % of the channel spacing; adjust as necessary to best identify the center of each individual channel.
VBW	≥RBW
Trace	Max hold
Sweep time	No faster than coupled (auto) time

Allow the trace to stabilize and use the marker-delta function to determine the separation between the peaks of the adjacent channels.
Compliance of an EUT with the appropriate regulatory limit shall be determined.

TEST SETUP



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TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix D

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7.4. NUMBER OF HOPPING FREQUENCY

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4		
Section	Test Item	Limit
FCC 47 CFR 15.247 (a) (1) III ISED RSS-247 Clause 6.2.3.1 (b)	Number of Hopping Frequency	at least 15 hopping channels

TEST PROCEDURE

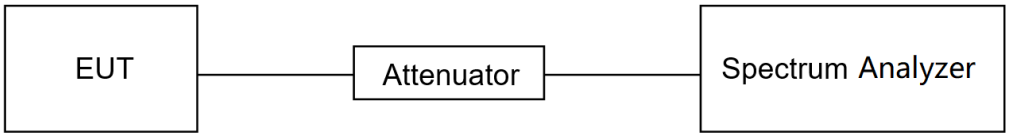
Refer to ANSI C63.10-2020 clause 7.8.3.

Connect the EUT to the spectrum Analyzer and use the following settings:

Detector	Peak
RBW	To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW	≥RBW
Span	The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
Trace	Max hold
Sweep time	No faster than coupled (auto) time

Set EUT to transmit maximum output power and switch on frequency hopping function. then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer, count the quantity of peaks to get the number of hopping channels.

TEST SETUP



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TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix F

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7.5. TIME OF OCCUPANCY (DWELL TIME)

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4		
Section	Test Item	Limit
FCC 47 CFR 15.247 (a) (1) III ISED RSS-247 Clause 6.2.3.1 (b)	Time of Occupancy (Dwell Time)	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds, multiplied by the number of hopping channels employed.

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 7.8.4.

Connect the EUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	⩽ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected transmission time per hop
VBW	≥RBW
Span	Zero span, centered on a hopping channel
Trace	Clear-write, single sweep
Sweep time	Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = 1/hopping rate) should achieve this

Use the marker-delta function to determine the transmit time per hop (Burst Width). If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

For FHSS Mode (79 Channel):
DH1/3DH1 Dwell Time: Burst Width * (1600/2) * 31.6 / (channel number)
DH3/3DH3 Dwell Time: Burst Width * (1600/4) * 31.6 / (channel number)
DH5/3DH5 Dwell Time: Burst Width * (1600/6) * 31.6 / (channel number)

For AFHSS Mode (20 Channel):
DH1/3DH1 Dwell Time: Burst Width * (800/2) * 8 / (channel number)
DH3/3DH3 Dwell Time: Burst Width * (800/4) * 8 / (channel number)
DH5/3DH5 Dwell Time: Burst Width * (800/6) * 8 / (channel number)

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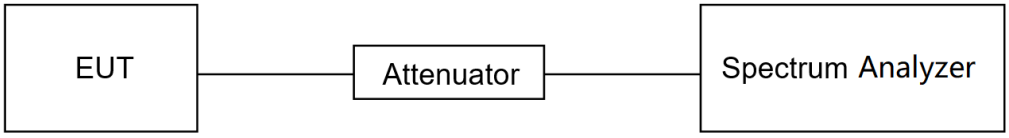
TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix E

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7.6. CONDUCTED BANDEDGE AND SPURIOUS EMISSION

LIMITS

FCC 47 CFR Part15 (15.247) Subpart C ISED RSS-247 ISSUE 4		
Section	Test Item	Limit
FCC 47 CFR §15.247 (d) ISED RSS-247 6.6	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Refer to ANSI C63.10-2020 clause 7.8.7.

Connect the EUT to the spectrum analyzer and use the following settings for reference level measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
Span	1.5 x 20dB bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level.

Change the settings for emission level measurement:

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100 kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum PSD level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum

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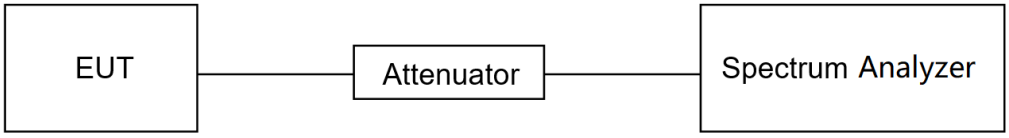
TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix G&H

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7.7. DUTY CYCLE

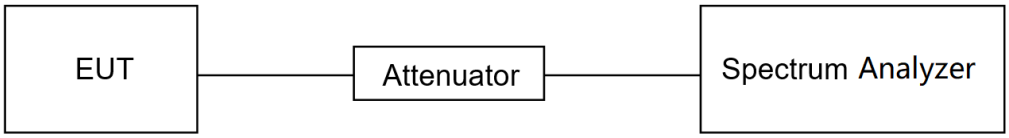
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2020 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.1℃	Relative Humidity	60.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	May 13, 2026	Test By	Burt Hu

TEST RESULTS

Please refer to section "Test Data" - Appendix I

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8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC 47 CFR §15.205 and §15.209.

Please refer to ISED RSS-GEN Clause 8.9 and Clause 8.10.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz-1 GHz)

Emissions radiated outside of the specified frequency bands above 30 MHz			
Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m	
		Quasi-Peak	
30 - 88	100	40	
88 - 216	150	43.5	
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
		74	54

FCC Emissions radiated outside of the specified frequency bands below 30 MHz		
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	**Magnetic field strength (H-Field) (µA/m)**	**Measurement distance (m)**
9 - 490 kHz[Note 1]	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands[Note 1]		
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 – 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 – 8500	
108 – 138		

Note 1: Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC 47 CFR §15.205 (a):

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
[1]0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	([2])
13.36-13.41			

Note: [1]Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
[2]Above 38.6c

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TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyzer

RBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
VBW	200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.4.

2. The EUT was arranged to its worst case and then 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. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.

5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. 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 and average detector and reported.

7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

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Below 1 GHz and above 30 MHz

The setting of the spectrum analyzer

RBW	120 kHz
VBW	300 kHz
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.5.

2. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

3. The EUT was placed on a turntable with 80 cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. 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.

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Above 1 GHz

The setting of the spectrum analyzer

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2020 clause 6.6.

2. 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. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

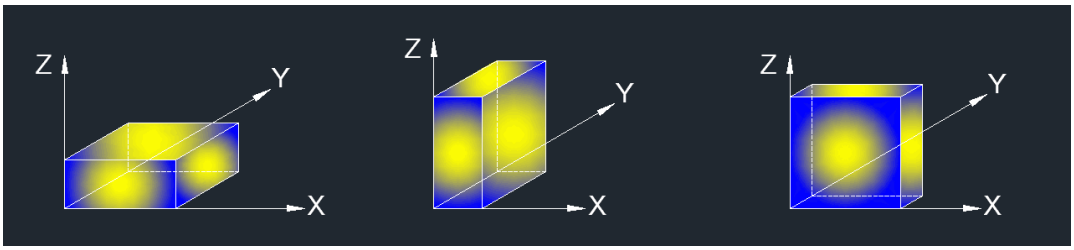
3. The EUT was placed on a turntable with 1.5 m above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.

5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.

6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.7. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

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For Restricted Bandedge:
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. PK=Peak: Peak detector.
4. AV=Average: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.7.
6. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
7. Both horizontal and vertical have been tested, only the worst data was recorded in the report.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (9 kHz ~ 30 MHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. All modes have been tested, but only the worst data was recorded in the report.
5. dBuA/m= dBuV/m- 20Log10[120π] = dBuV/m- 51.5

For Radiate Spurious Emission (30 MHz ~ 1 GHz):
Note:
1. Result Level = Read Level + Correct Factor.
2. If the peak values are less than the QP limit, the QP result is deemed to comply with QP limit.
3. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious Emission (1 GHz ~ 3 GHz):
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.7.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

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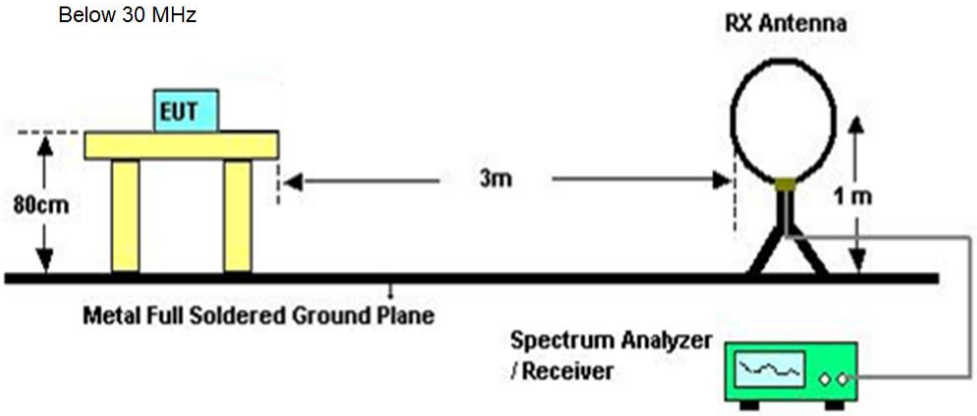
For Radiate Spurious Emission (3 GHz ~ 18 GHz):
Note:
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.7.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. All modes have been tested, but only the worst data was recorded in the report.

For Radiate Spurious emission (18 GHz ~ 26 GHz):
Note:
1. Measurement = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. All modes have been tested, but only the worst data was recorded in the report.

TEST SETUP



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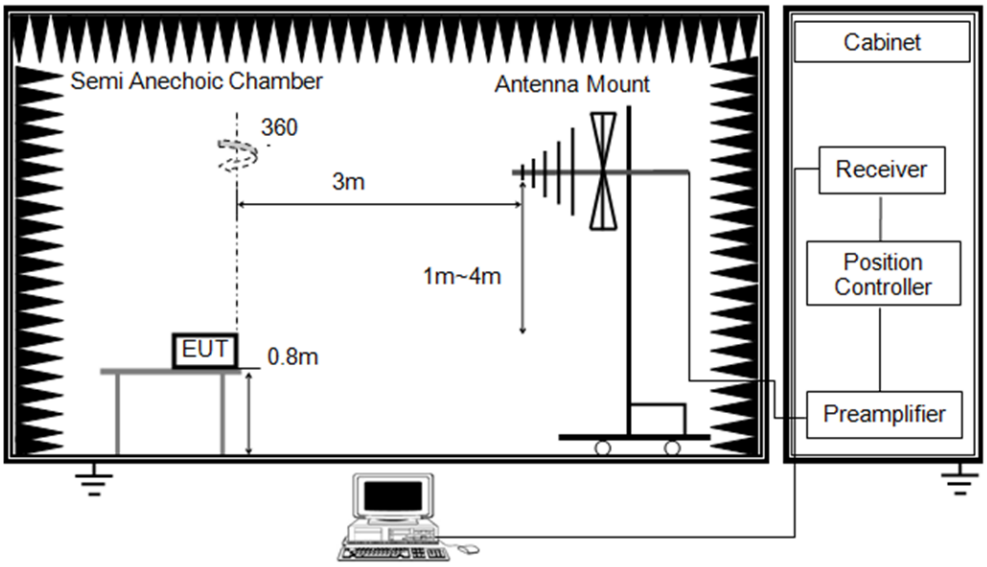
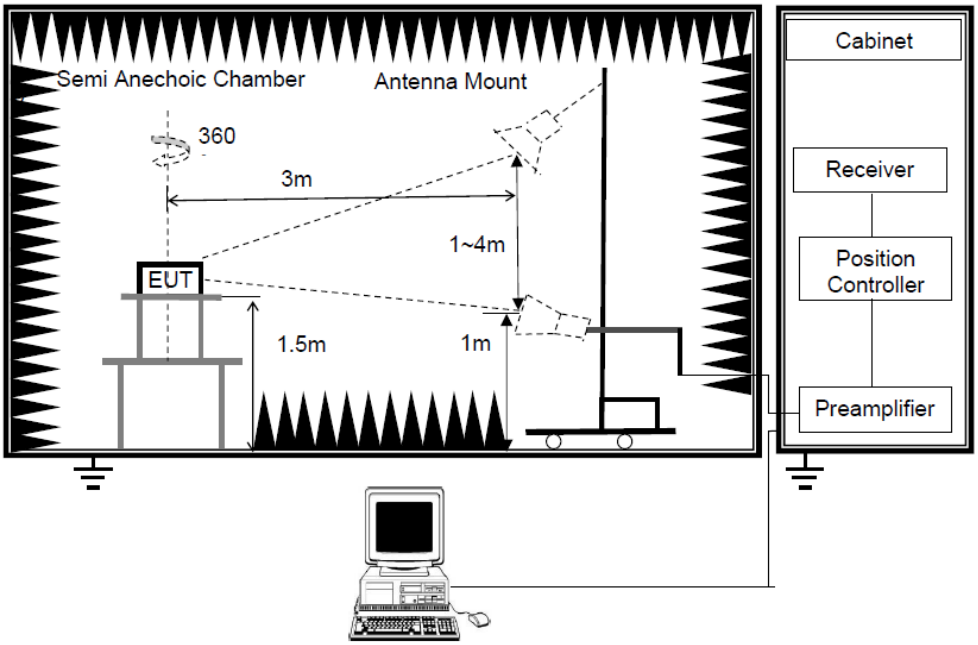
Below 1 GHz and above 30 MHz



Above 1GHz



TEST ENVIRONMENT

Temperature	23.1℃	Relative Humidity	52%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.7V

TEST DATE / ENGINEER

Test Date	June 3, 2026	Test By	Leslie Xie

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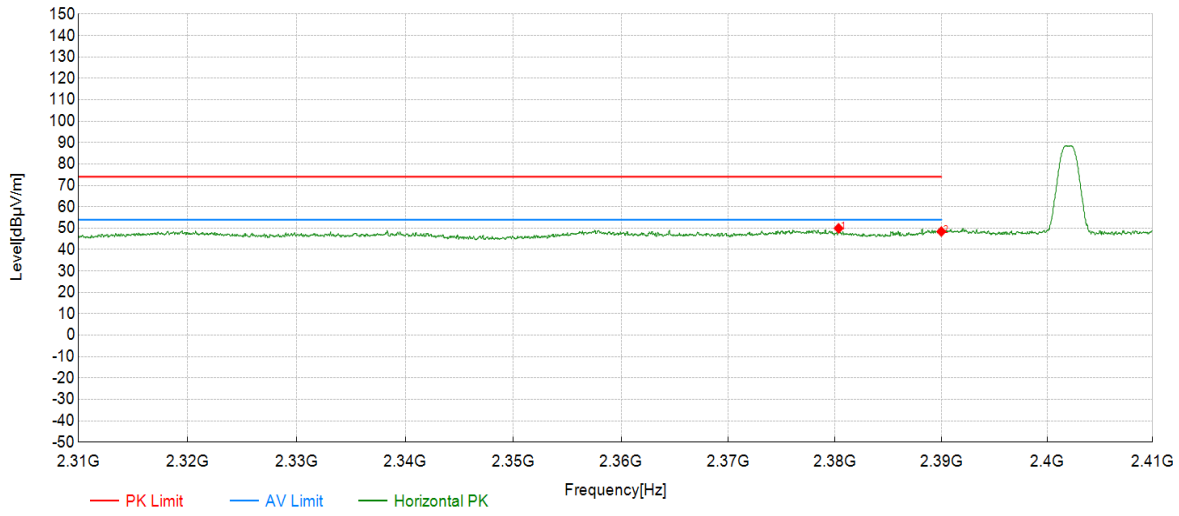
TEST RESULTS

8.1. RESTRICTED BANDEDGE

TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2402
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2380.34	41.39	49.95	8.56	74.00	24.05	PK	Horizontal	PASS
2	2390.00	39.73	48.43	8.70	74.00	25.57	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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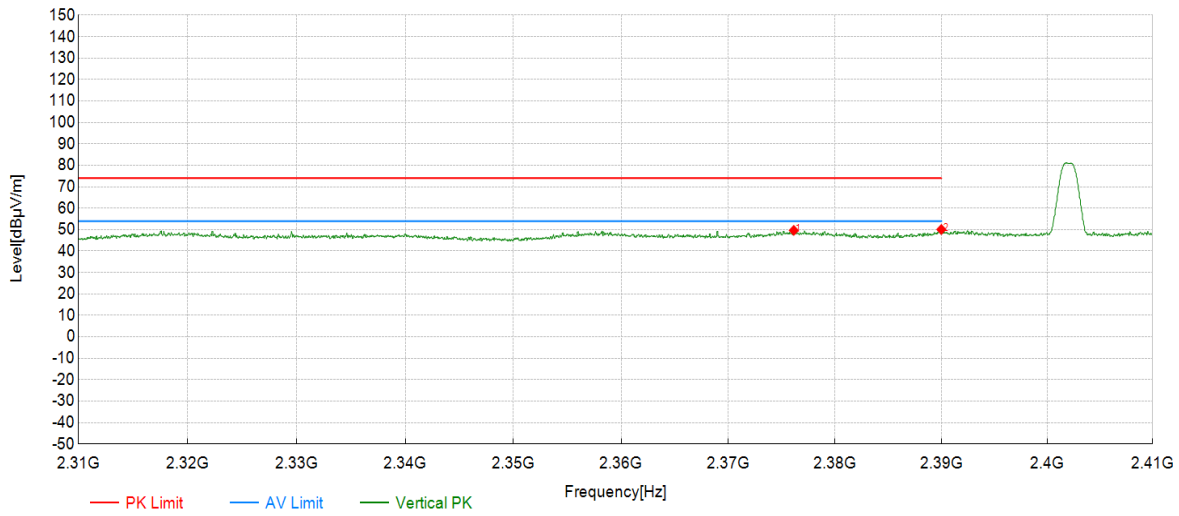
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2402
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2376.13	41.14	49.65	8.51	74.00	24.35	PK	Vertical	PASS
2	2390.00	41.37	50.07	8.70	74.00	23.93	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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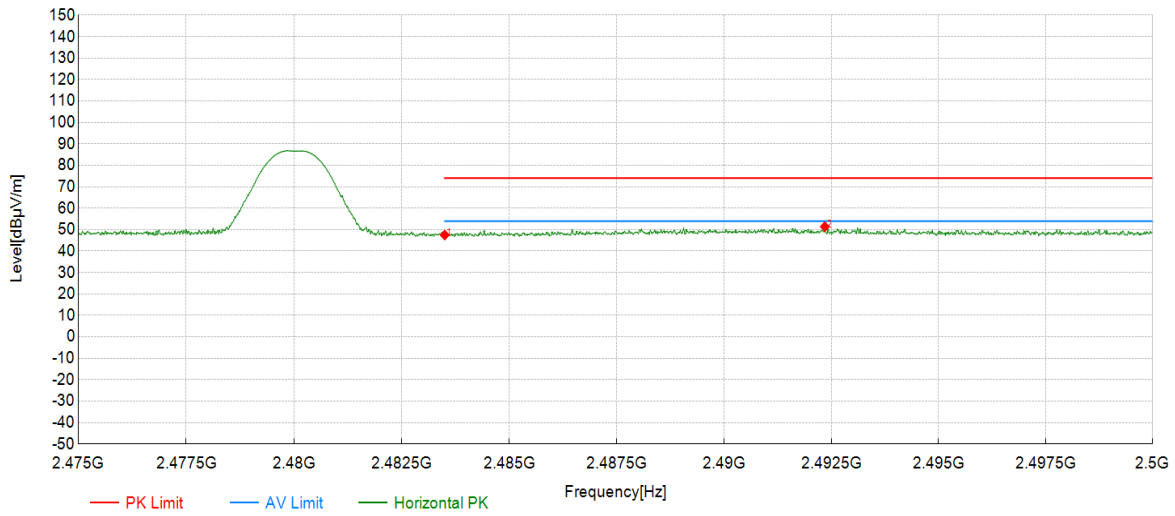
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2480
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	37.50	47.49	9.99	74.00	26.51	PK	Horizontal	PASS
2	2492.35	41.28	51.39	10.11	74.00	22.61	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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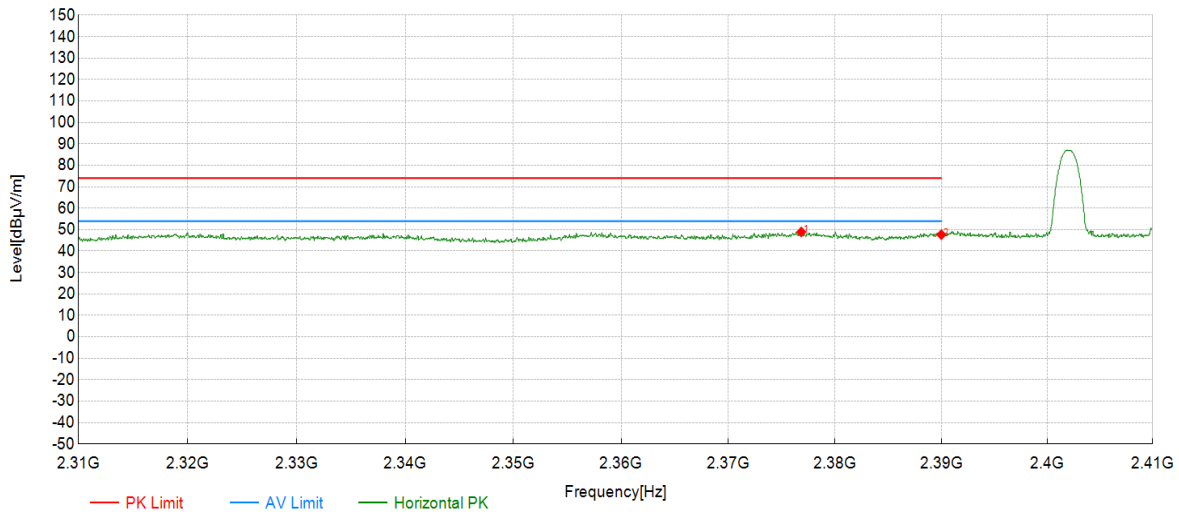
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2402
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2376.83	40.41	48.93	8.52	74.00	25.07	PK	Horizontal	PASS
2	2390.00	38.94	47.64	8.70	74.00	26.36	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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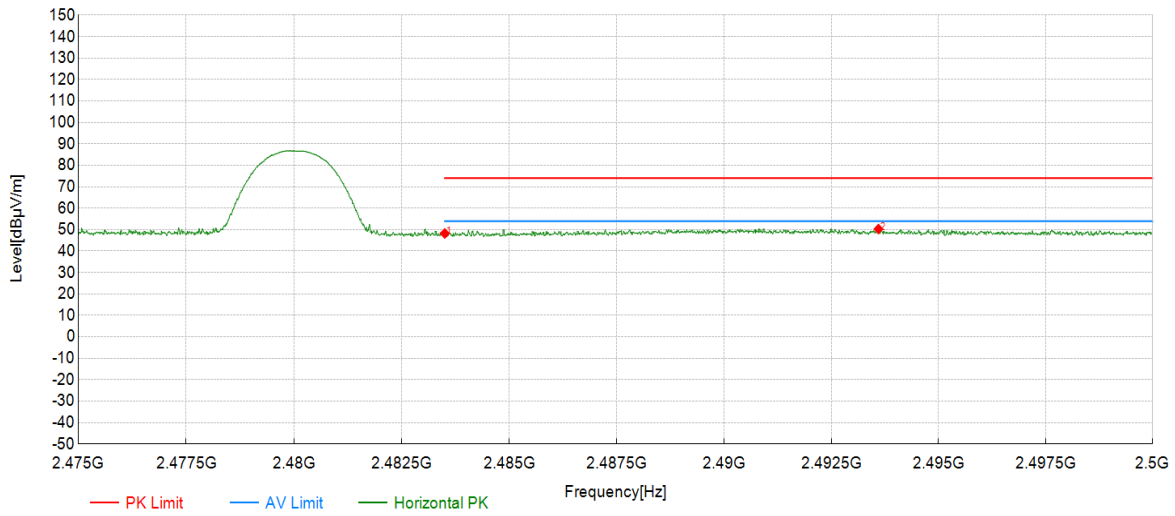
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2480
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	2483.50	38.23	48.22	9.99	74.00	25.78	PK	Horizontal	PASS
2	2493.60	40.16	50.29	10.13	74.00	23.71	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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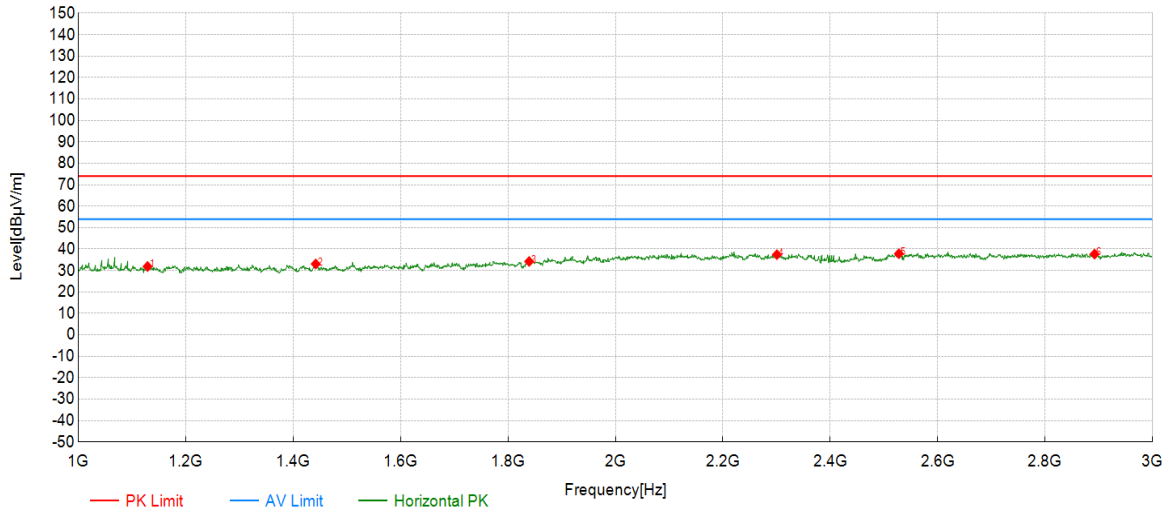
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2402
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1129.06	56.60	31.87	-24.73	74.00	42.13	PK	Horizontal	PASS
2	1442.22	57.67	33.06	-24.61	74.00	40.94	PK	Horizontal	PASS
3	1839.42	56.07	34.22	-21.85	74.00	39.78	PK	Horizontal	PASS
4	2300.65	57.06	37.39	-19.67	74.00	36.61	PK	Horizontal	PASS
5	2527.76	57.43	37.85	-19.58	74.00	36.15	PK	Horizontal	PASS
6	2891.95	56.72	37.65	-19.07	74.00	36.35	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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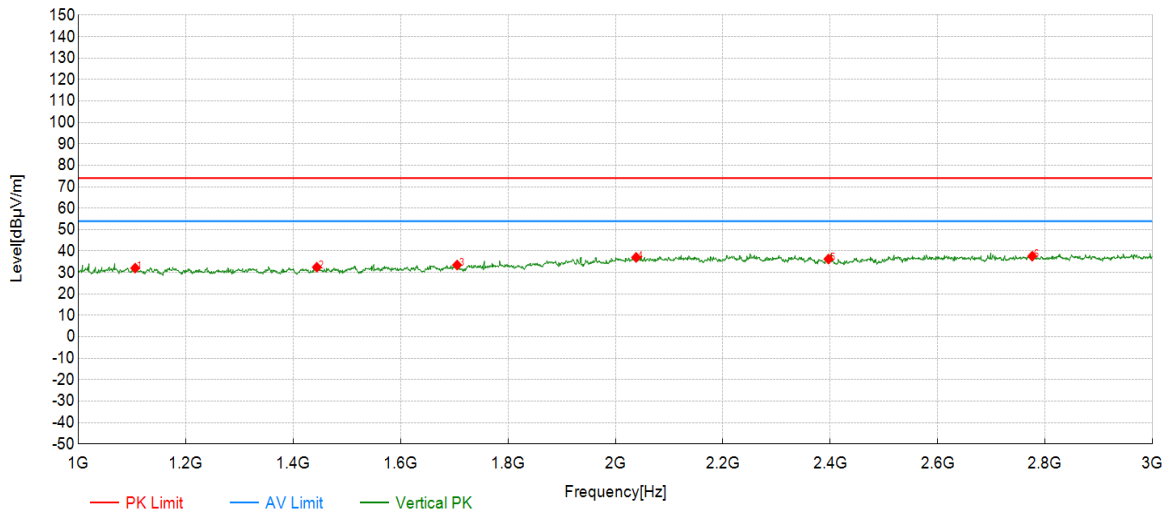
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2402
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1106.05	56.84	32.06	-24.78	74.00	41.94	PK	Vertical	PASS
2	1444.22	57.09	32.48	-24.61	74.00	41.52	PK	Vertical	PASS
3	1705.35	56.51	33.50	-23.01	74.00	40.50	PK	Vertical	PASS
4	2038.52	57.08	37.04	-20.04	74.00	36.96	PK	Vertical	PASS
5	2396.70	55.91	36.28	-19.63	74.00	37.72	PK	Vertical	PASS
6	2775.89	56.78	37.61	-19.17	74.00	36.39	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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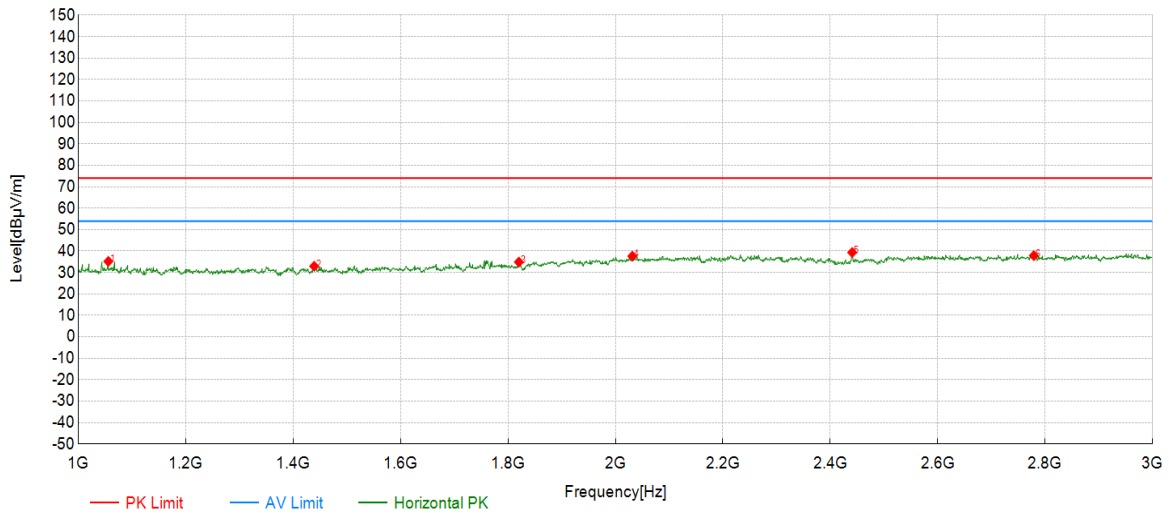
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2441
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1056.03	60.08	35.20	-24.88	74.00	38.80	PK	Horizontal	PASS
2	1439.22	57.55	32.93	-24.62	74.00	41.07	PK	Horizontal	PASS
3	1820.41	56.94	34.89	-22.05	74.00	39.11	PK	Horizontal	PASS
4	2031.52	57.66	37.62	-20.04	74.00	36.38	PK	Horizontal	PASS
5	2441.00	58.97	39.34	-19.63	/	/	PK	Horizontal	Fundamental
6	2778.89	57.05	37.88	-19.17	74.00	36.12	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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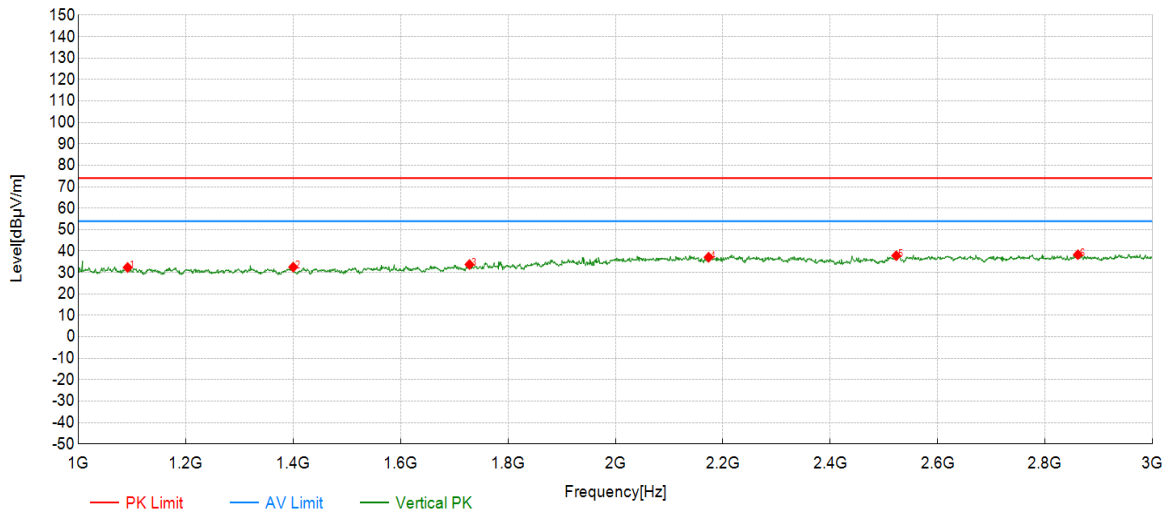
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2441
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1092.05	57.14	32.35	-24.79	74.00	41.65	PK	Vertical	PASS
2	1400.20	57.16	32.53	-24.63	74.00	41.47	PK	Vertical	PASS
3	1728.36	56.57	33.74	-22.83	74.00	40.26	PK	Vertical	PASS
4	2173.59	56.89	37.12	-19.77	74.00	36.88	PK	Vertical	PASS
5	2522.76	57.42	37.84	-19.58	74.00	36.16	PK	Vertical	PASS
6	2860.93	57.42	38.33	-19.09	74.00	35.67	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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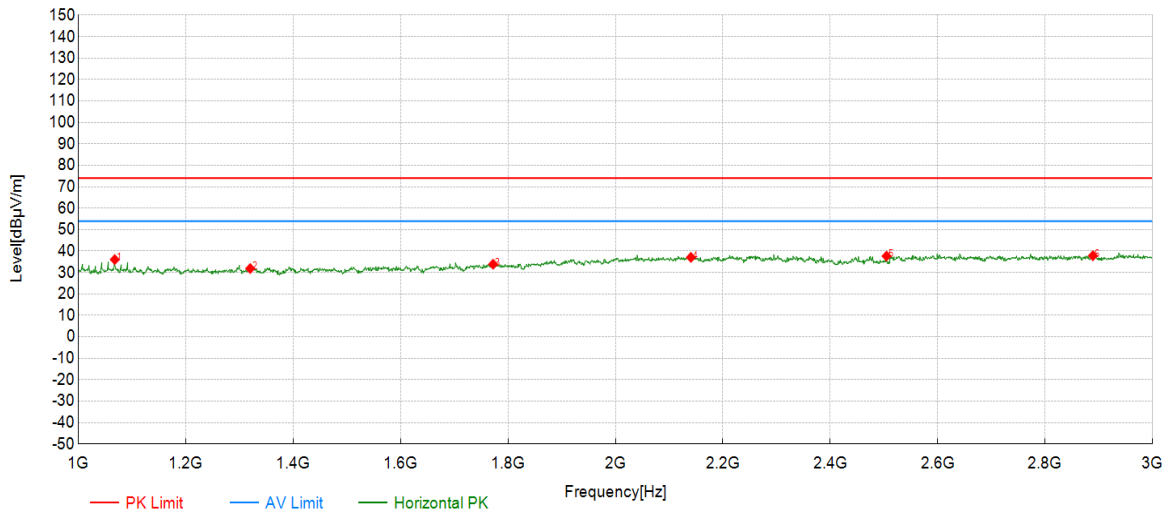
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2480
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1068.03	60.90	36.05	-24.85	74.00	37.95	PK	Horizontal	PASS
2	1320.16	56.49	31.87	-24.62	74.00	42.13	PK	Horizontal	PASS
3	1772.39	56.35	33.87	-22.48	74.00	40.13	PK	Horizontal	PASS
4	2140.57	56.92	37.08	-19.84	74.00	36.92	PK	Horizontal	PASS
5	2504.75	57.28	37.67	-19.61	74.00	36.33	PK	Horizontal	PASS
6	2888.94	56.90	37.83	-19.07	74.00	36.17	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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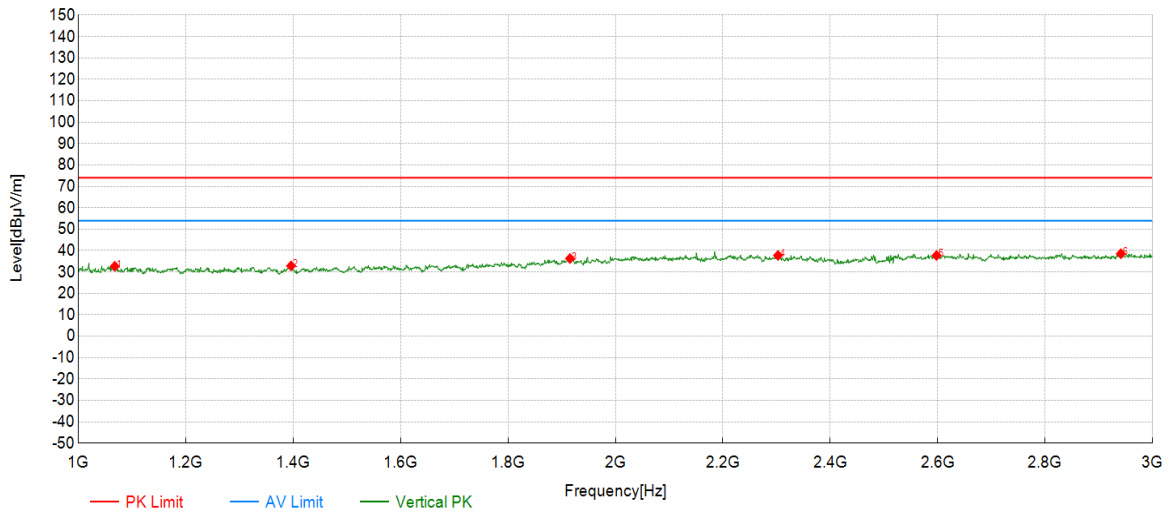
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2480
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	1068.03	57.51	32.66	-24.85	74.00	41.34	PK	Vertical	PASS
2	1396.20	57.50	32.87	-24.63	74.00	41.13	PK	Vertical	PASS
3	1915.46	57.33	36.31	-21.02	74.00	37.69	PK	Vertical	PASS
4	2302.65	57.41	37.74	-19.67	74.00	36.26	PK	Vertical	PASS
5	2597.80	57.19	37.72	-19.47	74.00	36.28	PK	Vertical	PASS
6	2940.97	57.58	38.54	-19.04	74.00	35.46	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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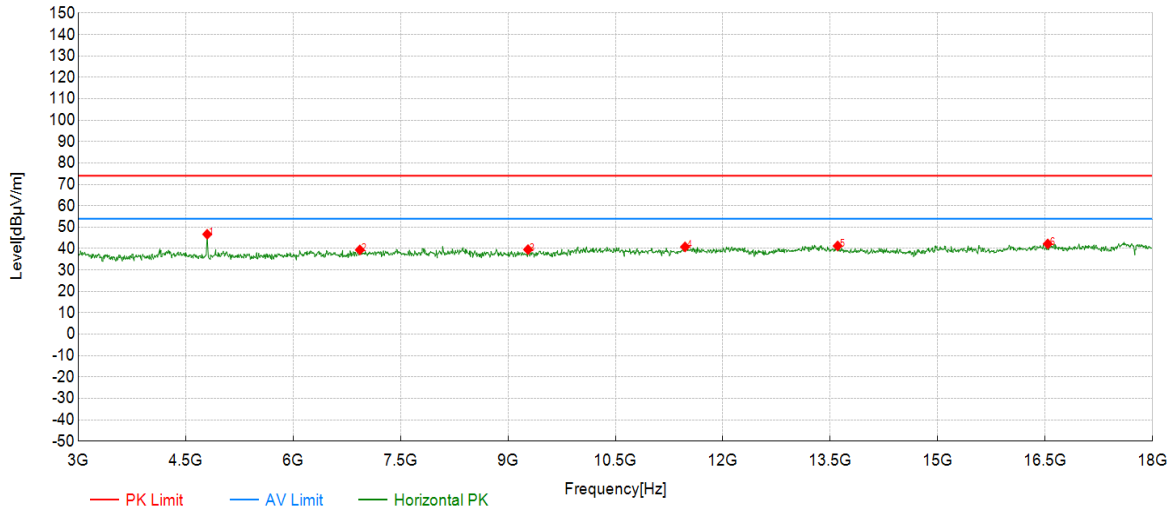
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2402
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4800.90	65.29	46.69	-18.60	74.00	27.31	PK	Horizontal	PASS
2	6931.97	54.51	39.39	-15.12	74.00	34.61	PK	Horizontal	PASS
3	9280.64	51.18	39.54	-11.64	74.00	34.46	PK	Horizontal	PASS
4	11471.74	49.63	40.80	-8.83	74.00	33.20	PK	Horizontal	PASS
5	13602.80	53.68	41.26	-12.42	74.00	32.74	PK	Horizontal	PASS
6	16536.77	49.91	42.20	-7.71	74.00	31.80	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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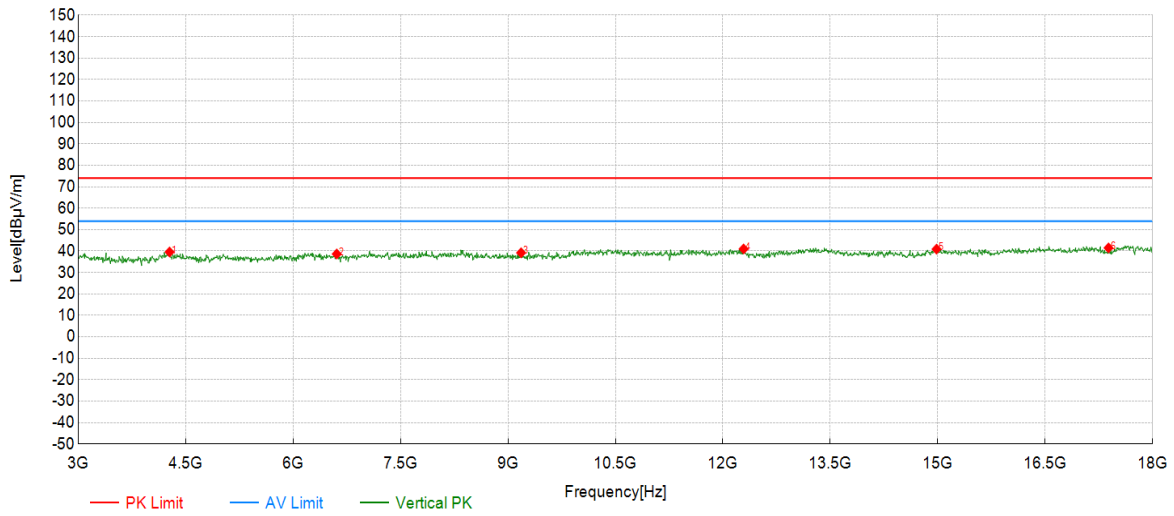
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2402
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4275.64	57.24	39.56	-17.68	74.00	34.44	PK	Vertical	PASS
2	6609.30	54.76	38.64	-16.12	74.00	35.36	PK	Vertical	PASS
3	9183.09	51.14	39.20	-11.94	74.00	34.80	PK	Vertical	PASS
4	12289.64	51.31	40.98	-10.33	74.00	33.02	PK	Vertical	PASS
5	14983.49	50.21	40.91	-9.30	74.00	33.09	PK	Vertical	PASS
6	17384.69	49.28	41.49	-7.79	74.00	32.51	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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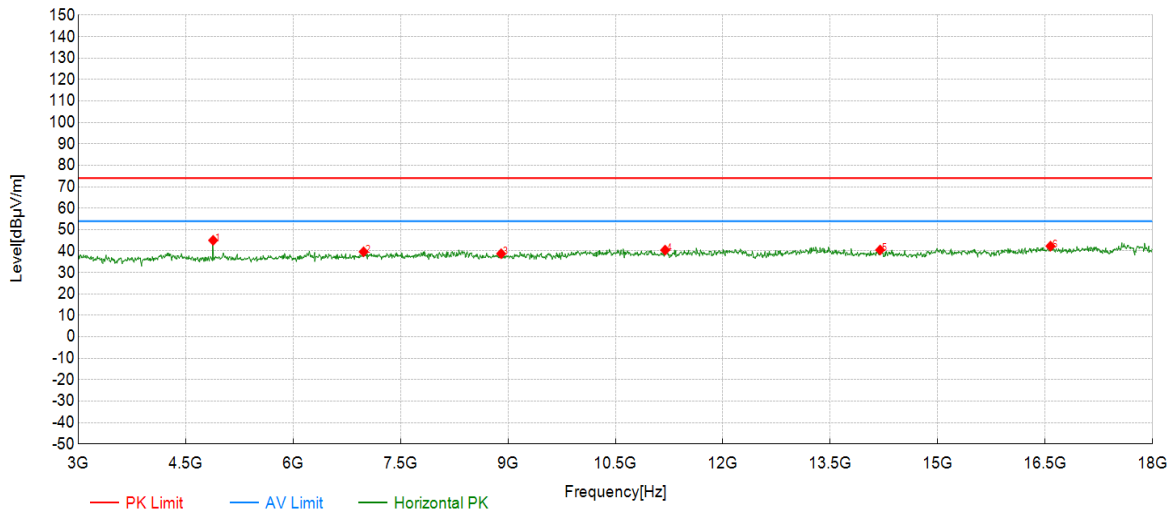
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2441
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4883.44	63.16	45.01	-18.15	74.00	28.99	PK	Horizontal	PASS
2	6984.49	54.56	39.67	-14.89	74.00	34.33	PK	Horizontal	PASS
3	8905.45	51.53	38.78	-12.75	74.00	35.22	PK	Horizontal	PASS
4	11194.10	49.10	40.45	-8.65	74.00	33.55	PK	Horizontal	PASS
5	14195.60	51.09	40.51	-10.58	74.00	33.49	PK	Horizontal	PASS
6	16574.29	49.91	42.29	-7.62	74.00	31.71	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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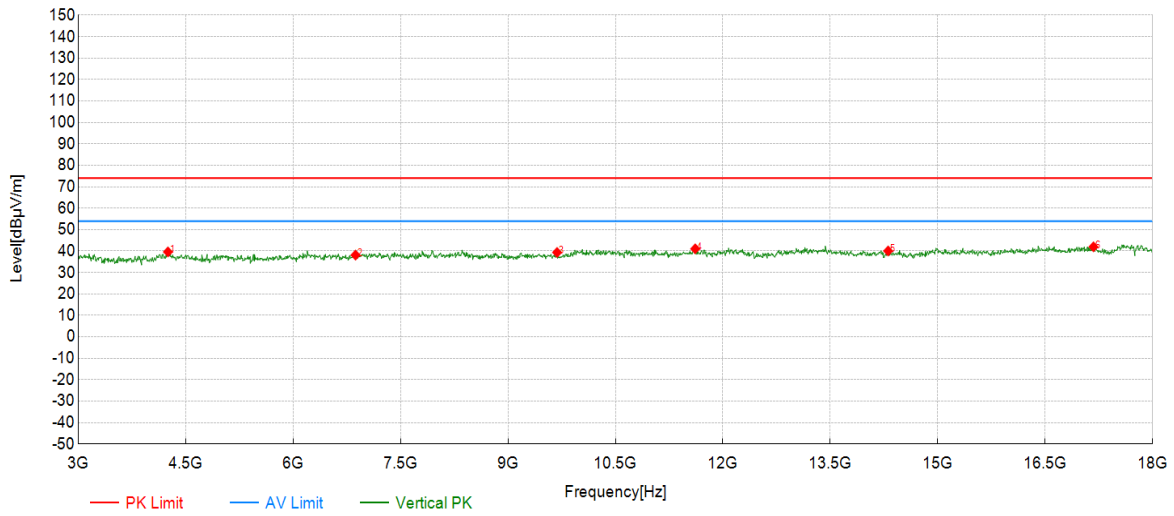
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2441
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4253.13	57.24	39.61	-17.63	74.00	34.39	PK	Vertical	PASS
2	6871.94	53.52	38.14	-15.38	74.00	35.86	PK	Vertical	PASS
3	9685.84	51.54	39.37	-12.17	74.00	34.63	PK	Vertical	PASS
4	11614.31	49.77	41.07	-8.70	74.00	32.93	PK	Vertical	PASS
5	14308.15	50.97	40.06	-10.91	74.00	33.94	PK	Vertical	PASS
6	17174.59	48.93	41.98	-6.95	74.00	32.02	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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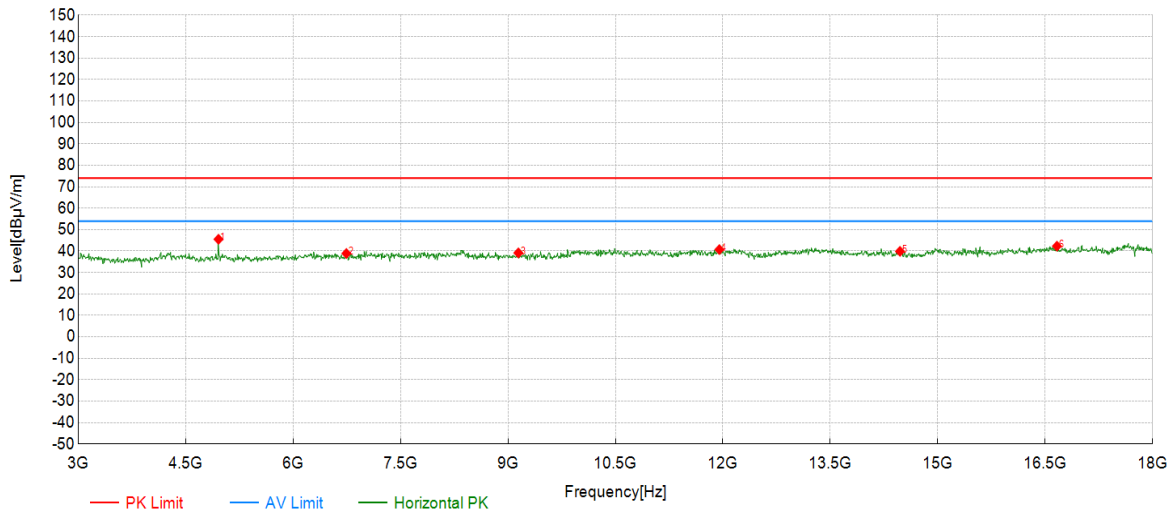
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2480
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4958.48	63.26	45.52	-17.74	74.00	28.48	PK	Horizontal	PASS
2	6744.37	54.70	38.89	-15.81	74.00	35.11	PK	Horizontal	PASS
3	9145.57	51.30	39.15	-12.15	74.00	34.85	PK	Horizontal	PASS
4	11951.98	50.47	40.70	-9.77	74.00	33.30	PK	Horizontal	PASS
5	14473.24	50.85	39.87	-10.98	74.00	34.13	PK	Horizontal	PASS
6	16664.33	49.95	42.29	-7.66	74.00	31.71	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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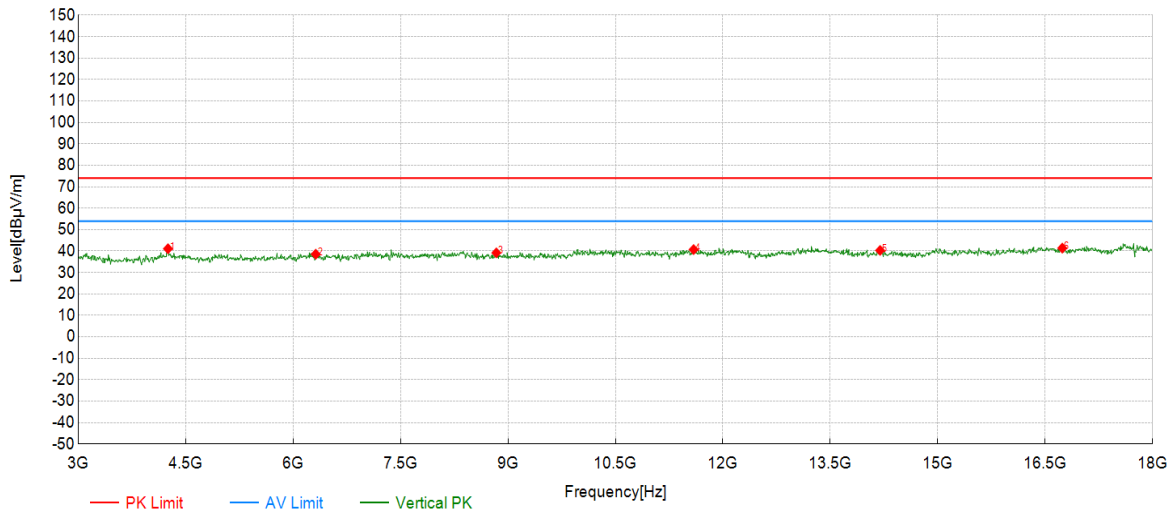
TX Radiated Test Result

Project Information			
Test Mode	GFSK	Frequency	2480
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4253.13	58.72	41.09	-17.63	74.00	32.91	PK	Vertical	PASS
2	6316.66	54.84	38.55	-16.29	74.00	35.45	PK	Vertical	PASS
3	8837.92	51.79	39.18	-12.61	74.00	34.82	PK	Vertical	PASS
4	11591.80	49.29	40.69	-8.60	74.00	33.31	PK	Vertical	PASS
5	14195.60	50.90	40.32	-10.58	74.00	33.68	PK	Vertical	PASS
6	16739.37	49.18	41.39	-7.79	74.00	32.61	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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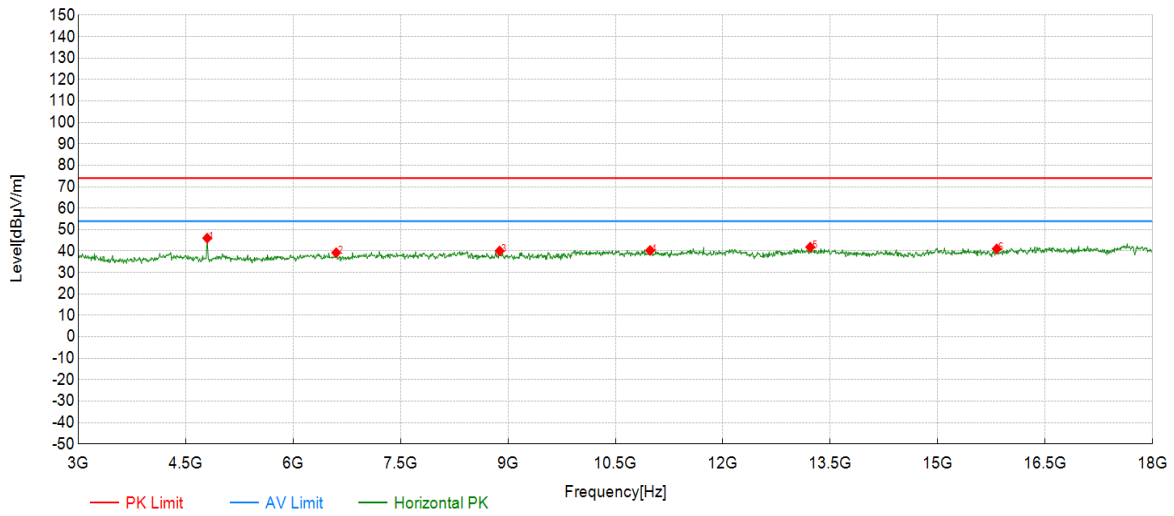
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2402
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4800.90	64.64	46.04	-18.60	74.00	27.96	PK	Horizontal	PASS
2	6601.80	55.39	39.26	-16.13	74.00	34.74	PK	Horizontal	PASS
3	8882.94	52.76	40.05	-12.71	74.00	33.95	PK	Horizontal	PASS
4	10983.99	49.20	40.30	-8.90	74.00	33.70	PK	Horizontal	PASS
5	13220.11	52.73	41.85	-10.88	74.00	32.15	PK	Horizontal	PASS
6	15823.91	50.78	41.03	-9.75	74.00	32.97	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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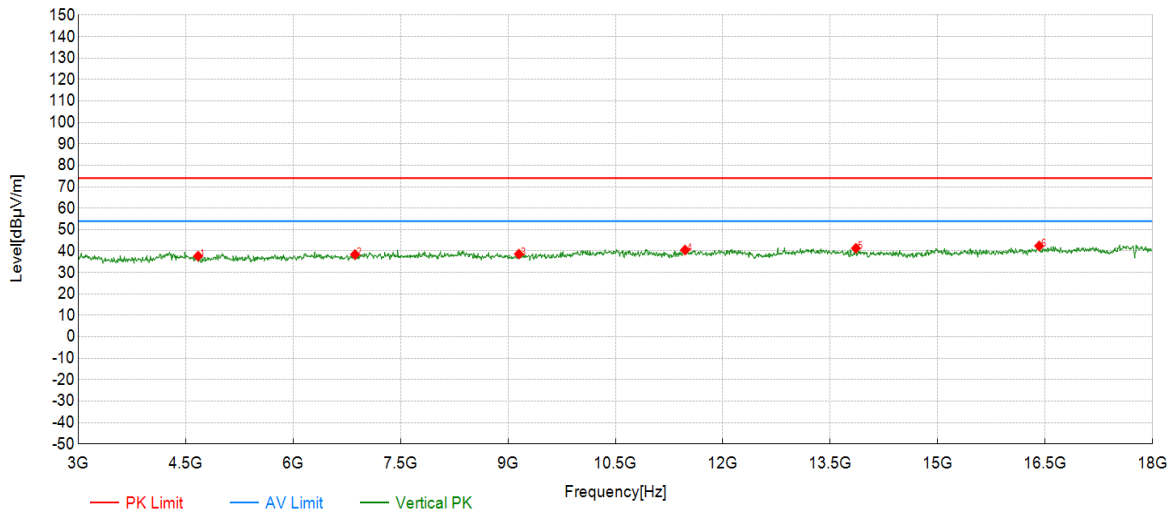
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2402
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4673.34	56.11	37.67	-18.44	74.00	36.33	PK	Vertical	PASS
2	6864.43	53.80	38.39	-15.41	74.00	35.61	PK	Vertical	PASS
3	9153.08	50.71	38.60	-12.11	74.00	35.40	PK	Vertical	PASS
4	11471.74	49.33	40.50	-8.83	74.00	33.50	PK	Vertical	PASS
5	13857.93	53.47	41.32	-12.15	74.00	32.68	PK	Vertical	PASS
6	16416.71	50.47	42.41	-8.06	74.00	31.59	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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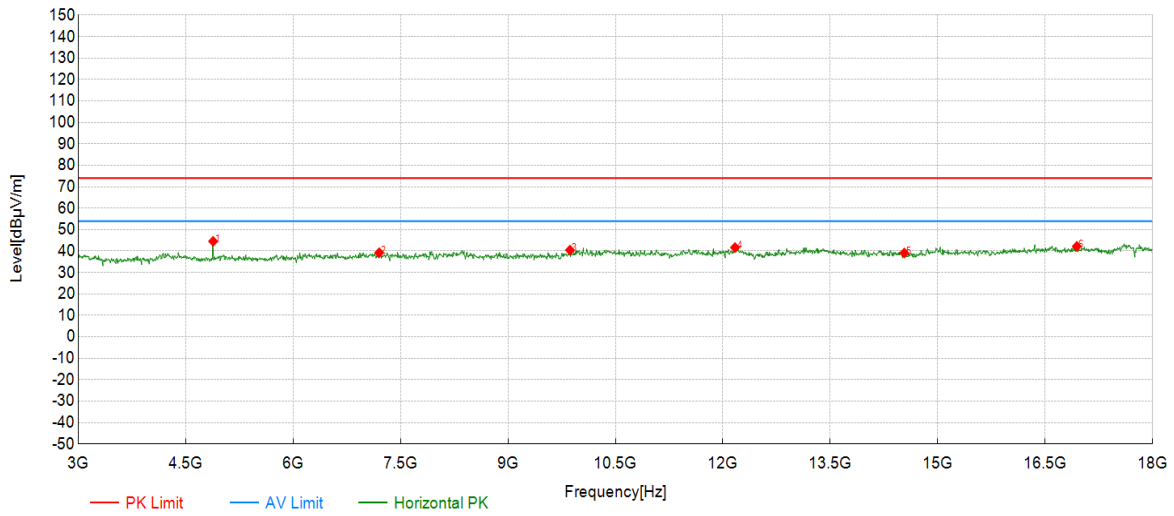
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2441
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4883.44	62.68	44.53	-18.15	74.00	29.47	PK	Horizontal	PASS
2	7202.10	54.48	39.24	-15.24	74.00	34.76	PK	Horizontal	PASS
3	9865.93	52.01	40.45	-11.56	74.00	33.55	PK	Horizontal	PASS
4	12169.58	51.40	41.67	-9.73	74.00	32.33	PK	Horizontal	PASS
5	14533.27	49.93	39.12	-10.81	74.00	34.88	PK	Horizontal	PASS
6	16941.97	49.69	42.20	-7.49	74.00	31.80	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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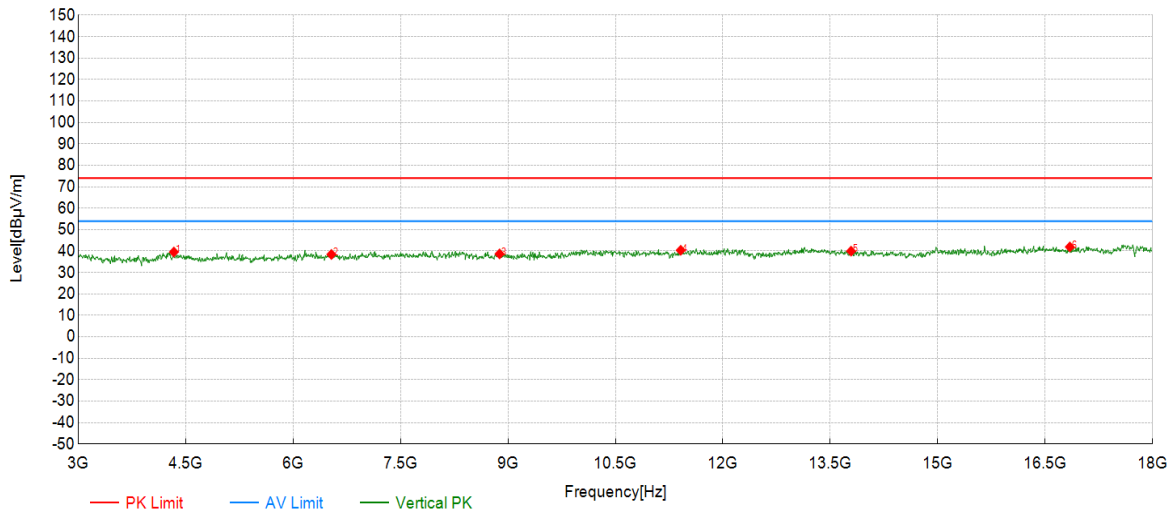
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2441
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4335.67	57.38	39.57	-17.81	74.00	34.43	PK	Vertical	PASS
2	6534.27	54.61	38.44	-16.17	74.00	35.56	PK	Vertical	PASS
3	8882.94	51.38	38.67	-12.71	74.00	35.33	PK	Vertical	PASS
4	11411.71	49.35	40.37	-8.98	74.00	33.63	PK	Vertical	PASS
5	13790.40	52.31	39.97	-12.34	74.00	34.03	PK	Vertical	PASS
6	16844.42	49.69	41.93	-7.76	74.00	32.07	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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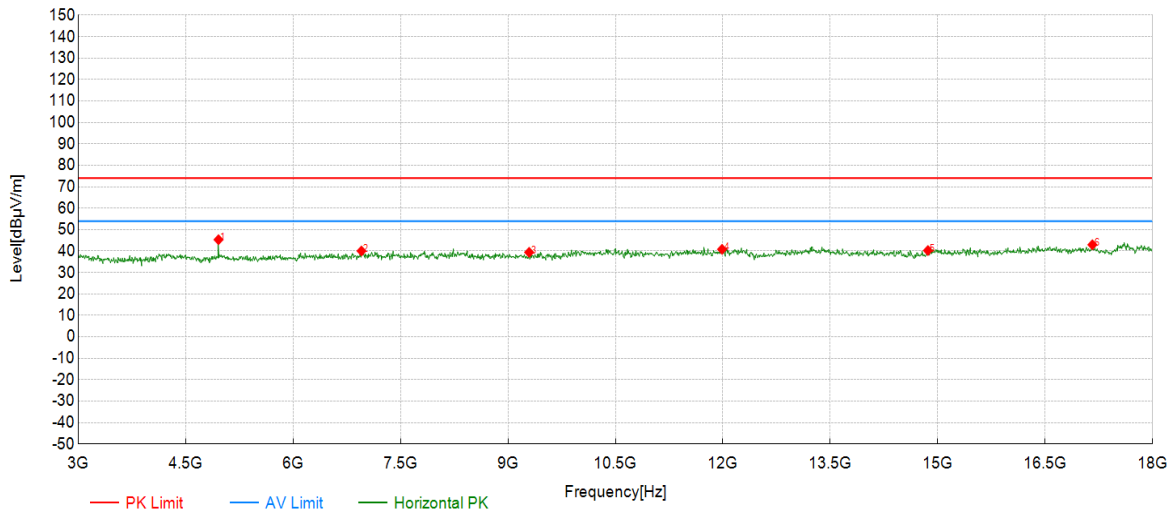
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2480
Bandwidth	\	Polarity	H
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4958.48	63.05	45.31	-17.74	74.00	28.69	PK	Horizontal	PASS
2	6954.48	55.07	40.05	-15.02	74.00	33.95	PK	Horizontal	PASS
3	9295.65	51.02	39.42	-11.60	74.00	34.58	PK	Horizontal	PASS
4	11989.49	50.46	40.82	-9.64	74.00	33.18	PK	Horizontal	PASS
5	14863.43	50.01	40.26	-9.75	74.00	33.74	PK	Horizontal	PASS
6	17159.58	49.94	42.96	-6.98	74.00	31.04	PK	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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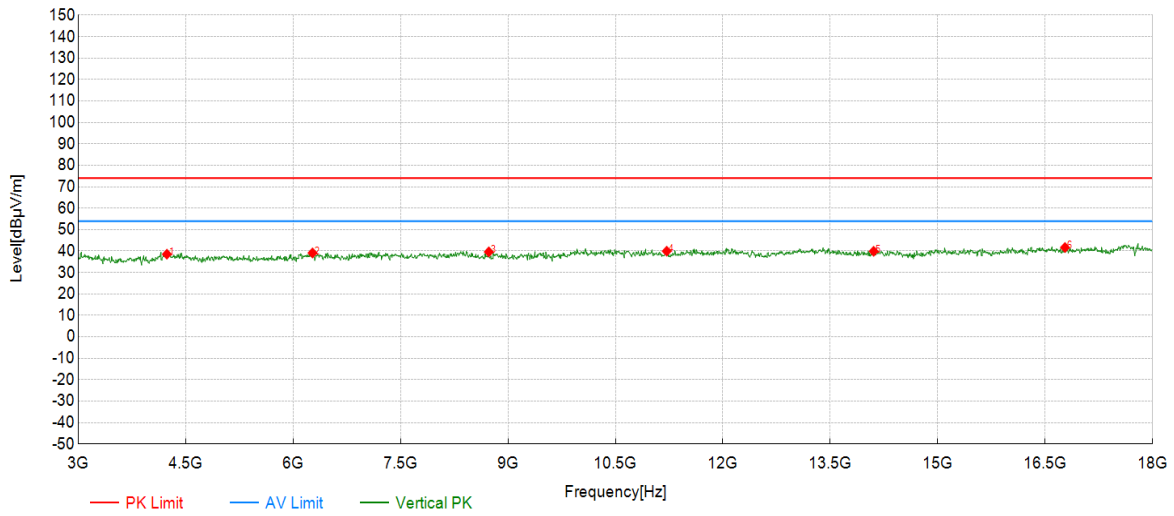
TX Radiated Test Result

Project Information			
Test Mode	8DPSK	Frequency	2480
Bandwidth	\	Polarity	V
Environment	Temp: 23.1℃; Humi:52%	Test Date	2026-06-03
Note		Engineer	Leslie Xie

Test Graph



PEAK Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity	Verdict
1	4238.12	56.13	38.55	-17.58	74.00	35.45	PK	Vertical	PASS
2	6271.64	55.38	39.12	-16.26	74.00	34.88	PK	Vertical	PASS
3	8732.87	52.50	39.64	-12.86	74.00	34.36	PK	Vertical	PASS
4	11216.61	48.63	39.97	-8.66	74.00	34.03	PK	Vertical	PASS
5	14105.55	50.98	39.89	-11.09	74.00	34.11	PK	Vertical	PASS
6	16776.89	49.52	41.68	-7.84	74.00	32.32	PK	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

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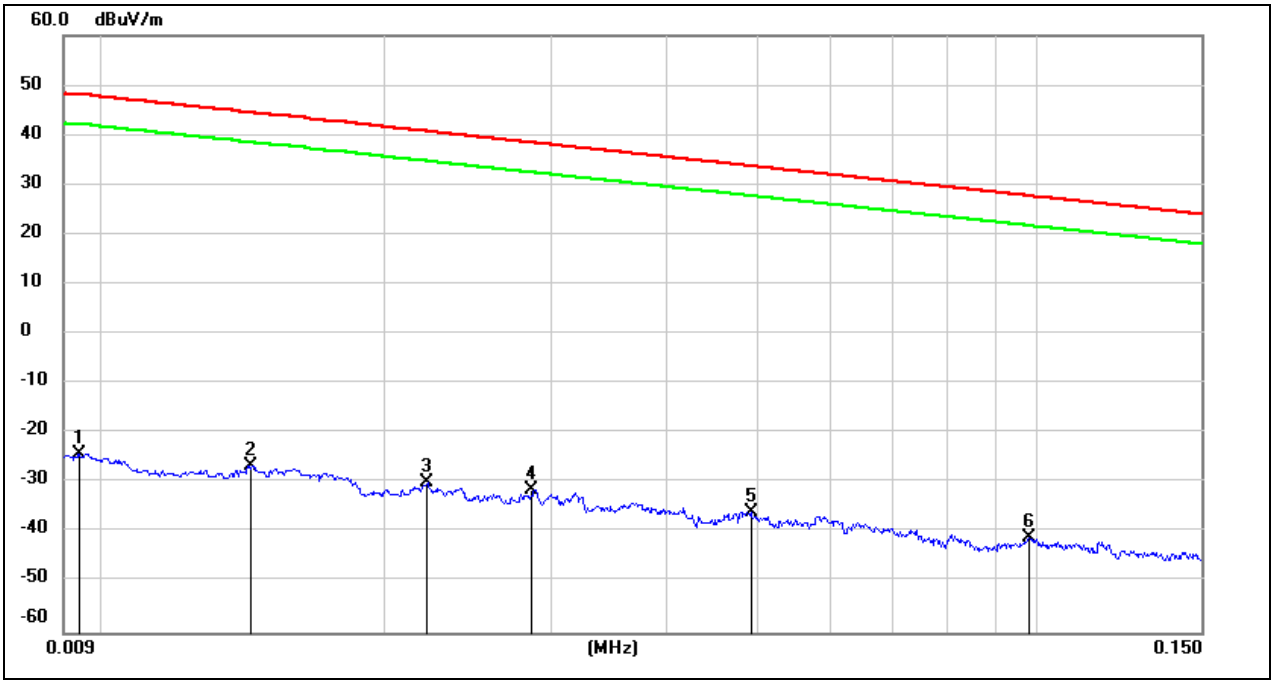
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0094	77.16	-101.35	-24.19	48.05	-75.69	-3.45	-72.24	peak
2	0.0143	74.87	-101.38	-26.51	44.49	-78.01	-7.01	-71.00	peak
3	0.0221	71.63	-101.35	-29.72	40.71	-81.22	-10.79	-70.43	peak
4	0.0286	69.96	-101.38	-31.42	38.47	-82.92	-13.03	-69.89	peak
5	0.0492	65.55	-101.47	-35.92	33.76	-87.42	-17.74	-69.68	peak
6	0.0981	60.77	-101.78	-41.01	27.77	-92.51	-23.73	-68.78	peak

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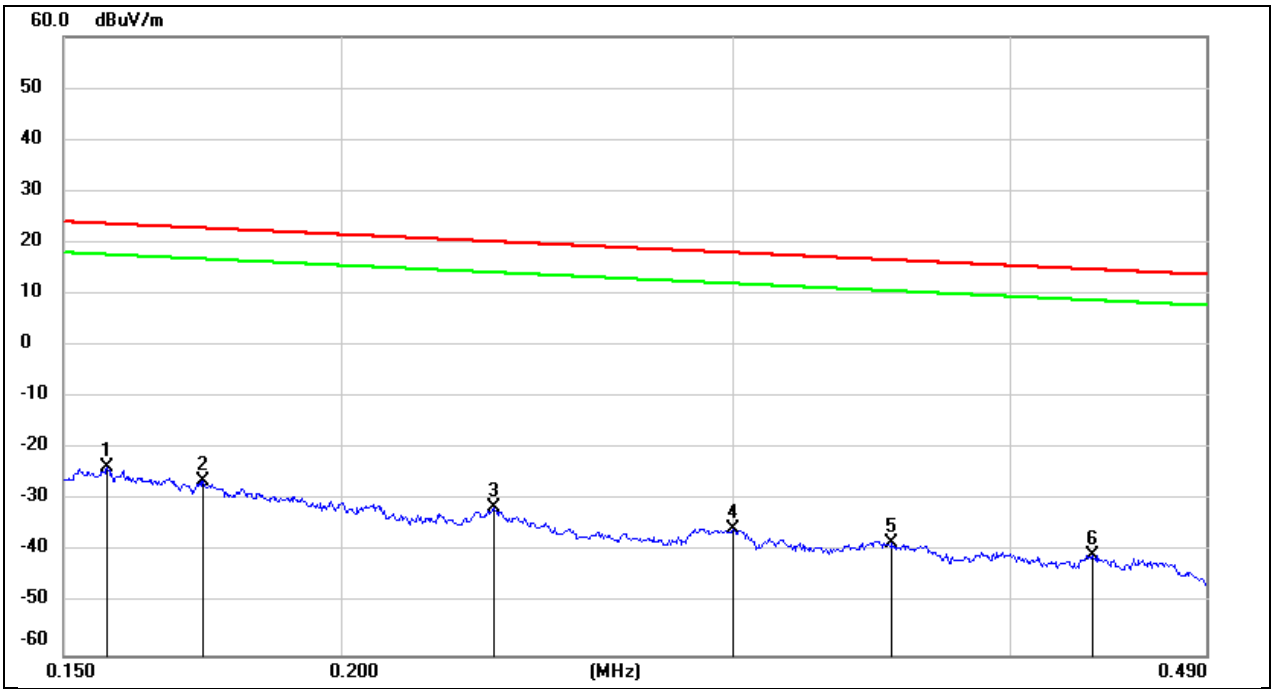
Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1569	77.97	-101.65	-23.68	23.69	-75.18	-27.81	-47.37	peak
2	0.1733	75.42	-101.67	-26.25	22.83	-77.75	-28.67	-49.08	peak
3	0.2343	70.30	-101.77	-31.47	20.21	-82.97	-31.29	-51.68	peak
4	0.3003	66.38	-101.85	-35.47	18.05	-86.97	-33.45	-53.52	peak
5	0.3537	63.81	-101.91	-38.10	16.63	-89.60	-34.87	-54.73	peak
6	0.4359	61.29	-101.99	-40.70	14.81	-92.20	-36.69	-55.51	peak

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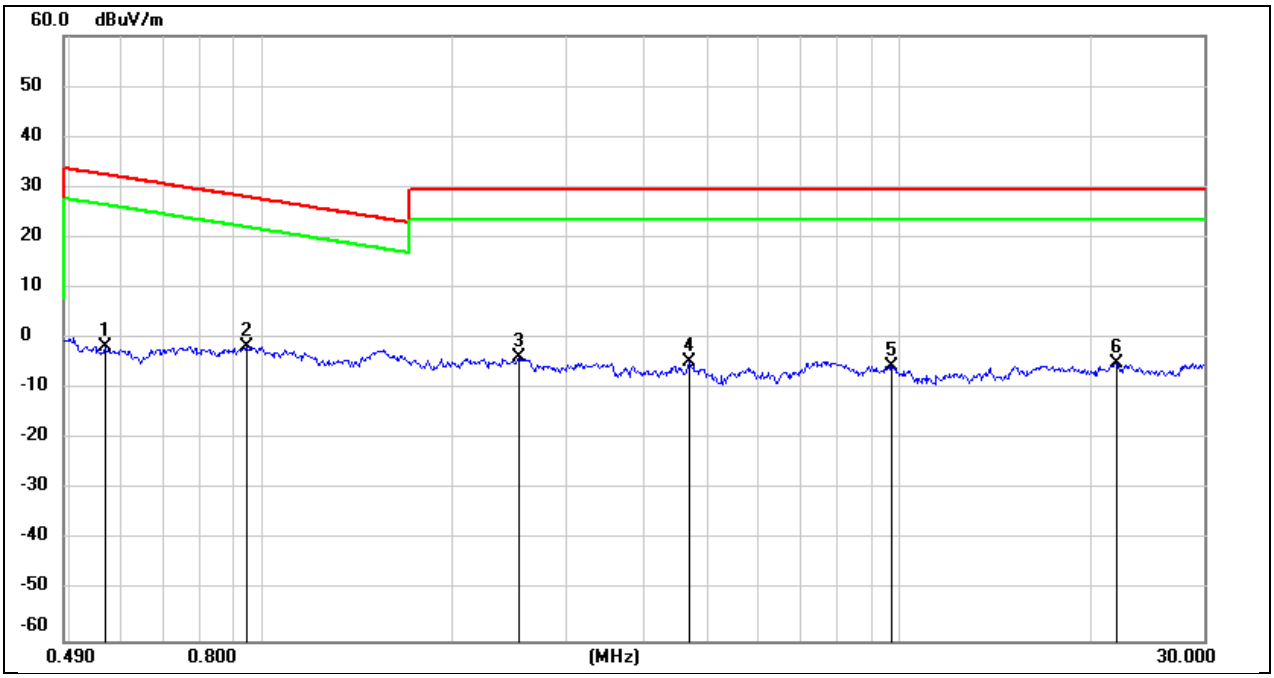
Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency	Reading	Correct	Result	Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.5682	60.37	-62.07	-1.70	32.51	-53.20	-18.99	-34.21	peak
2	0.9465	60.60	-62.23	-1.63	28.08	-53.13	-23.42	-29.71	peak
3	2.5301	57.82	-61.69	-3.87	29.54	-55.37	-21.96	-33.41	peak
4	4.6905	56.82	-61.44	-4.62	29.54	-56.12	-21.96	-34.16	peak
5	9.7263	55.44	-60.84	-5.40	29.54	-56.90	-21.96	-34.94	peak
6	21.9143	55.72	-60.69	-4.97	29.54	-56.47	-21.96	-34.51	peak

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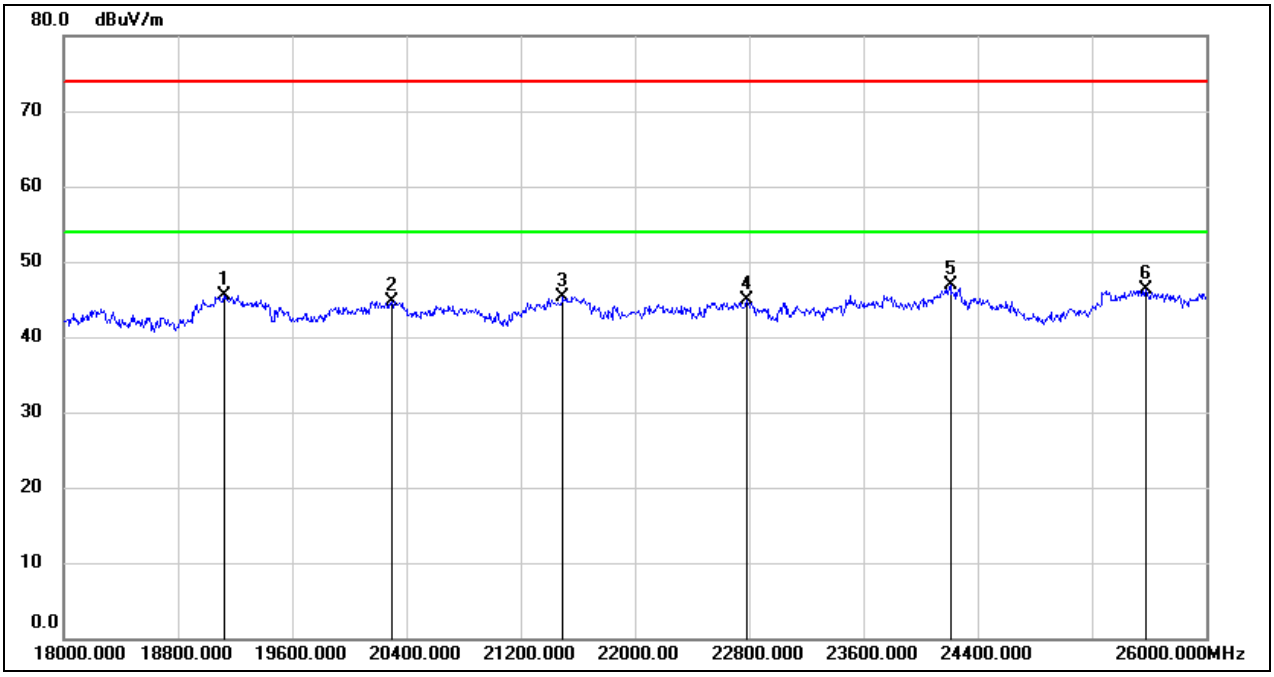
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	19120.000	50.80	-5.38	45.42	74.00	-28.58	peak
2	20296.000	50.26	-5.56	44.70	74.00	-29.30	peak
3	21496.000	50.02	-4.69	45.33	74.00	-28.67	peak
4	22784.000	48.48	-3.65	44.83	74.00	-29.17	peak
5	24208.000	49.71	-2.81	46.90	74.00	-27.10	peak
6	25576.000	47.68	-1.43	46.25	74.00	-27.75	peak

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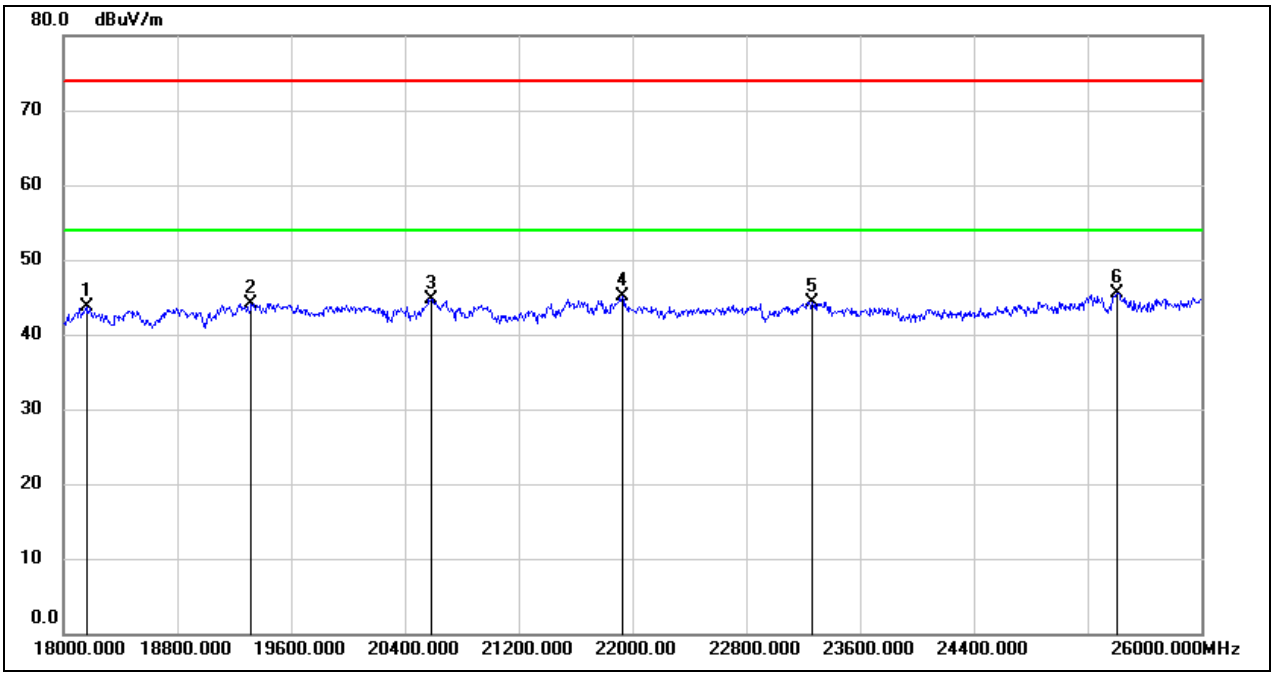
Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18160.000	49.11	-5.49	43.62	74.00	-30.38	peak
2	19320.000	49.73	-5.56	44.17	74.00	-29.83	peak
3	20584.000	50.00	-5.27	44.73	74.00	-29.27	peak
4	21928.000	49.55	-4.43	45.12	74.00	-28.88	peak
5	23264.000	47.76	-3.36	44.40	74.00	-29.60	peak
6	25408.000	47.28	-1.73	45.55	74.00	-28.45	peak

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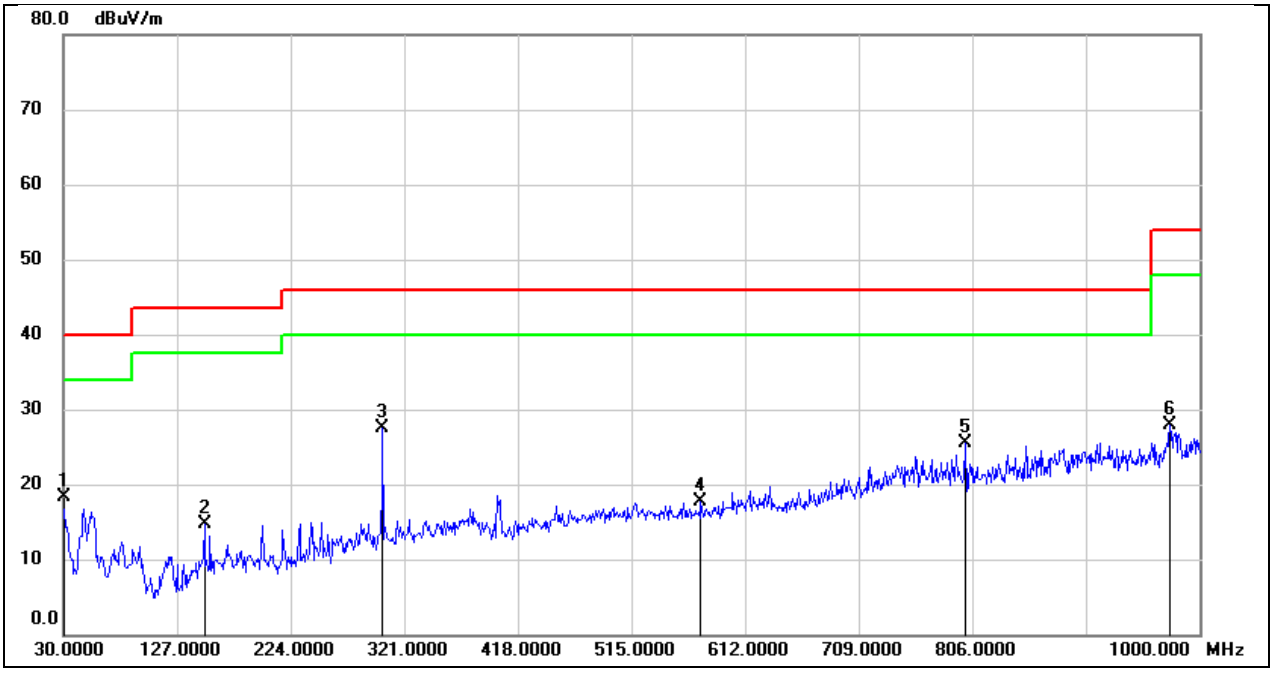
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.0000	32.74	-14.52	18.22	40.00	-21.78	peak
2	150.2800	27.75	-13.14	14.61	43.50	-28.89	peak
3	302.5700	38.49	-10.96	27.53	46.00	-18.47	peak
4	574.1700	23.68	-6.01	17.67	46.00	-28.33	peak
5	800.1800	27.82	-2.28	25.54	46.00	-20.46	peak
6	974.7800	28.94	-0.97	27.97	54.00	-26.03	peak

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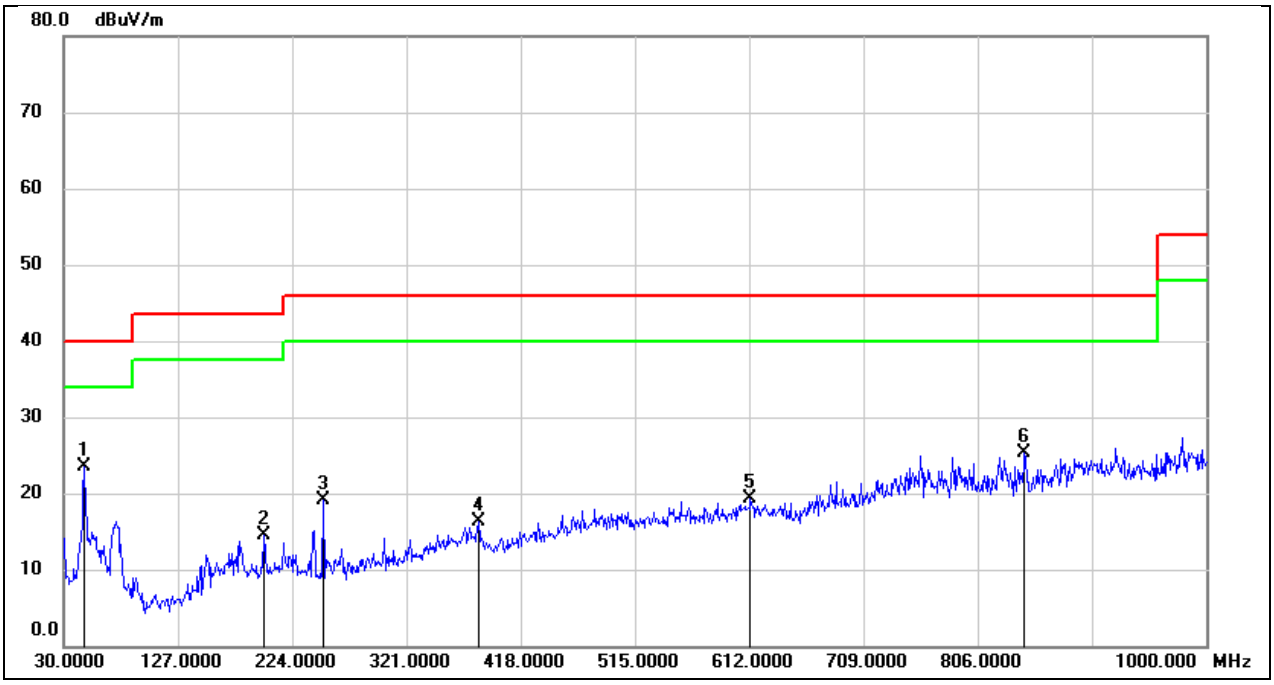
Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 3.7V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	47.4600	38.66	-15.21	23.45	40.00	-16.55	peak
2	199.7500	26.53	-11.95	14.58	43.50	-28.92	peak
3	250.1900	33.65	-14.60	19.05	46.00	-26.95	peak
4	382.1099	25.50	-9.23	16.27	46.00	-29.73	peak
5	612.9699	24.71	-5.46	19.25	46.00	-26.75	peak
6	845.7700	27.51	-2.19	25.32	46.00	-20.68	peak

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9. ANTENNA REQUIREMENT

REQUIREMENT

Please refer to FCC part 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 shall be considered sufficient to comply with the provisions of this section. 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.

Please refer to FCC part 15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DESCRIPTION

Pass

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10. TEST DATA

10.1. APPENDIX A: 20DB EMISSION BANDWIDTH

10.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.55	2402.50	PASS
		2441	0.95	2440.55	2441.50	PASS
		2480	0.95	2479.55	2480.50	PASS
3DH5	Ant1	2402	1.30	2401.36	2402.66	PASS
		2441	1.27	2440.37	2441.64	PASS
		2480	1.27	2479.37	2480.64	PASS

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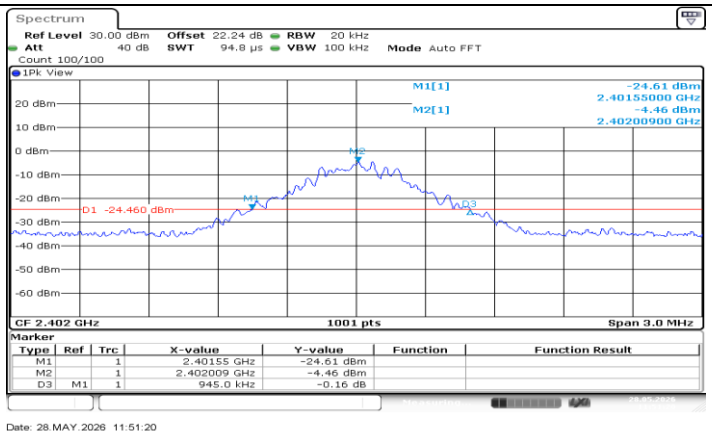
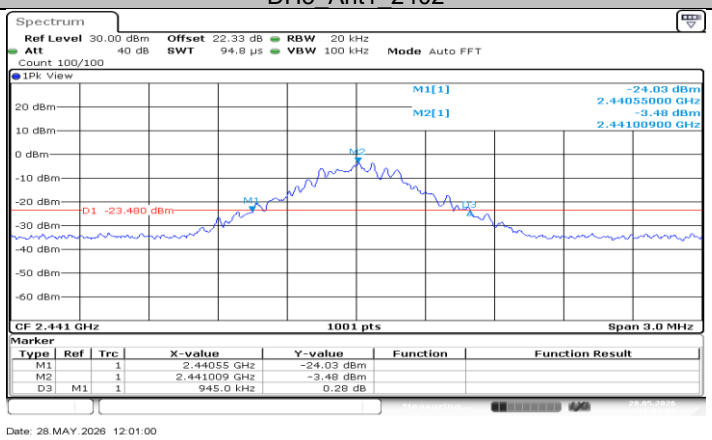
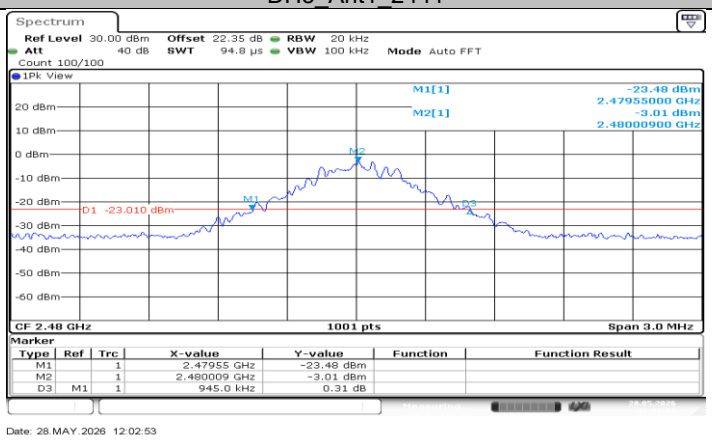
10.1.2. Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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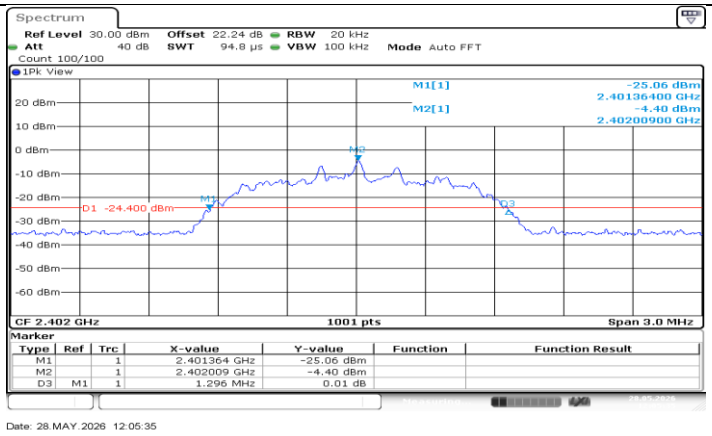
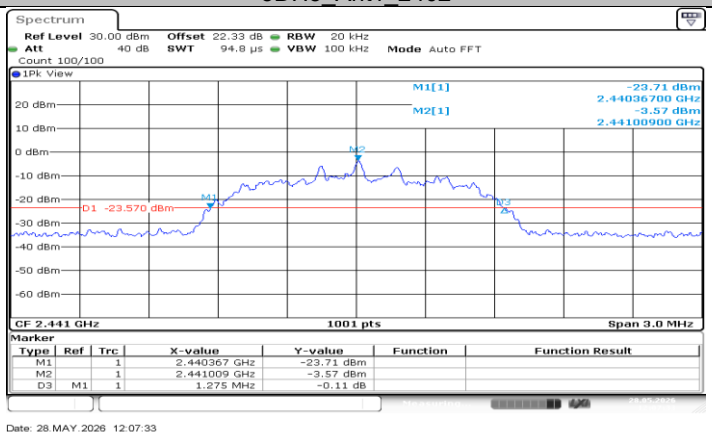
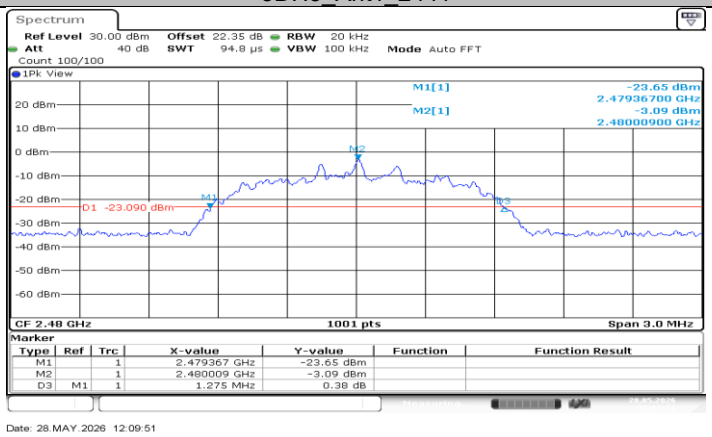


3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

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10.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

10.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
DH5	Ant1	2402	1.1239	2401.4515	2402.5754	PASS
		2441	1.0729	2440.4815	2441.5544	PASS
		2480	1.0460	2479.4875	2480.5335	PASS
3DH5	Ant1	2402	1.2977	2401.3586	2402.6563	PASS
		2441	1.2737	2440.3706	2441.6444	PASS
		2480	1.2617	2479.3796	2480.6414	PASS

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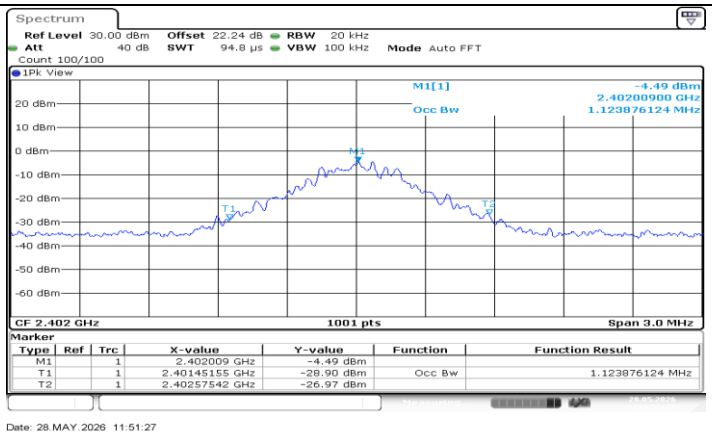
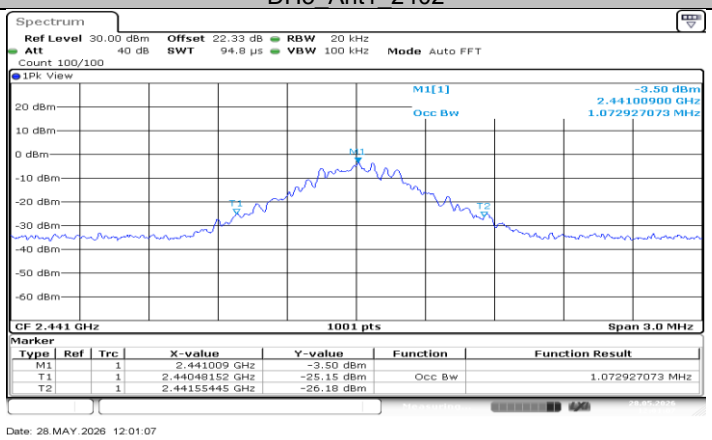
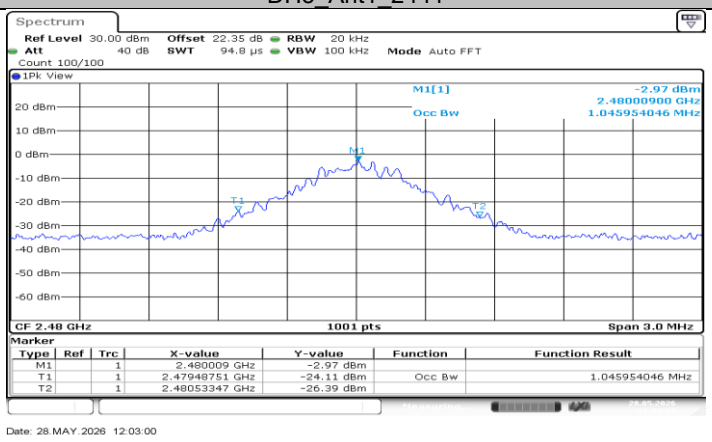
10.2.2. Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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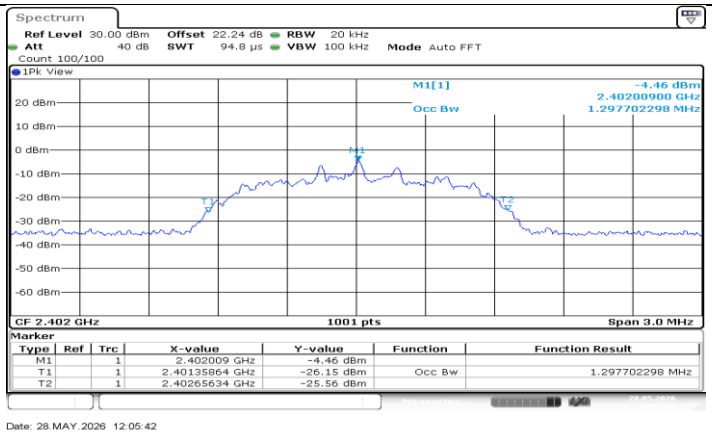
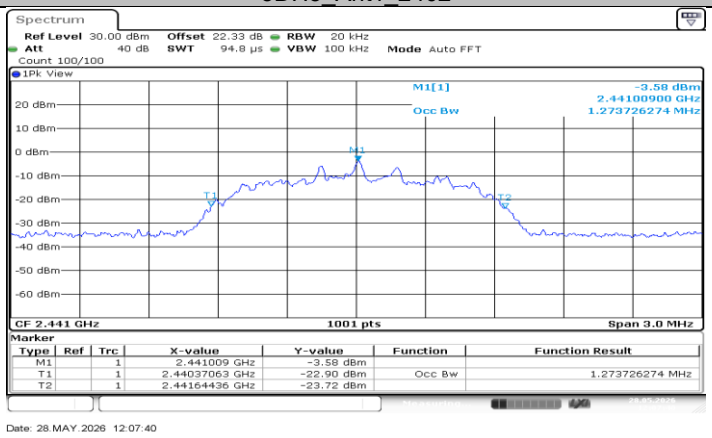
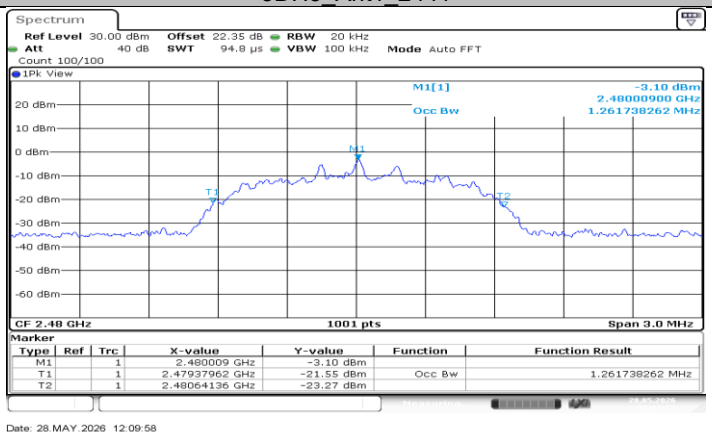


3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

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10.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

10.3.1. Peak Power Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.92	≤30	PASS
		2441	1.71	≤30	PASS
		2480	2.21	≤30	PASS
3DH5	Ant1	2402	1.63	≤21	PASS
		2441	2.29	≤21	PASS
		2480	2.84	≤21	PASS

10.3.2. Average Power Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.76	≤30	PASS
		2441	0.47	≤30	PASS
		2480	0.29	≤30	PASS
3DH5	Ant1	2402	-1.98	≤21	PASS
		2441	-0.74	≤21	PASS
		2480	-0.91	≤21	PASS

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10.4. APPENDIX D: CARRIER FREQUENCY SEPARATION

10.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.003	≥0.950	PASS
3DH5	Ant1	Hop	0.997	≥0.867	PASS

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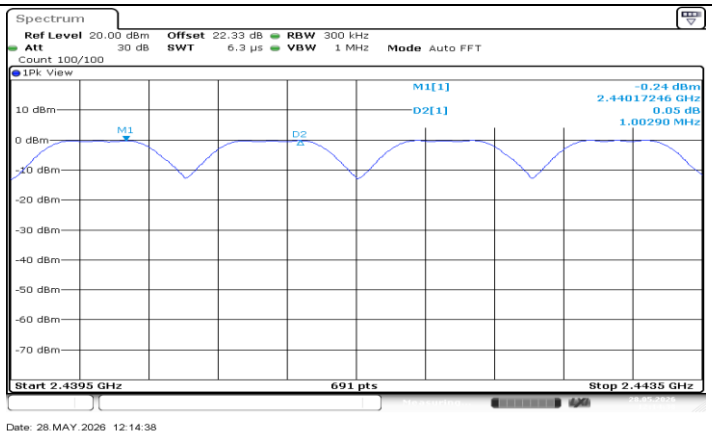
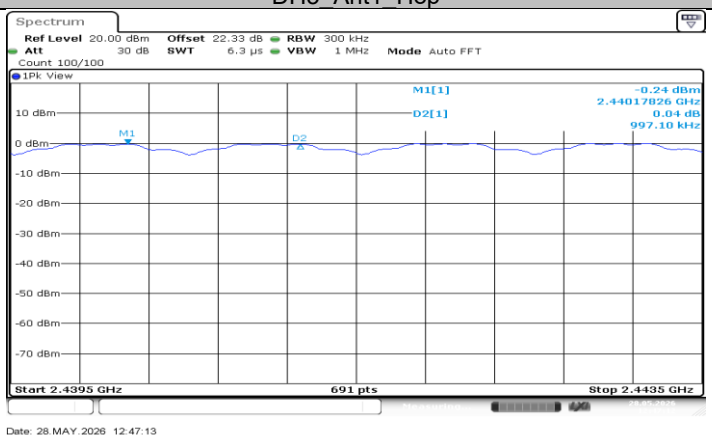
10.4.2. Test Graphs



DH5_Ant1_Hop



3DH5_Ant1_Hop

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10.5. APPENDIX E: TIME OF OCCUPANCY

10.5.1. Test Result

FHSS Mode						
Test Mode	Antenna	Channel	BurstWidth [ms]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.626	0.260	≤0.4	PASS
DH5	Ant1	Hop	2.868	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.389	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.631	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.874	0.307	≤0.4	PASS

AFHSS Mode						
Test Mode	Antenna	Channel	BurstWidth [ms]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	0.061	≤0.4	PASS
DH3	Ant1	Hop	1.626	0.130	≤0.4	PASS
DH5	Ant1	Hop	2.868	0.153	≤0.4	PASS
3DH1	Ant1	Hop	0.389	0.062	≤0.4	PASS
3DH3	Ant1	Hop	1.631	0.130	≤0.4	PASS
3DH5	Ant1	Hop	2.874	0.153	≤0.4	PASS

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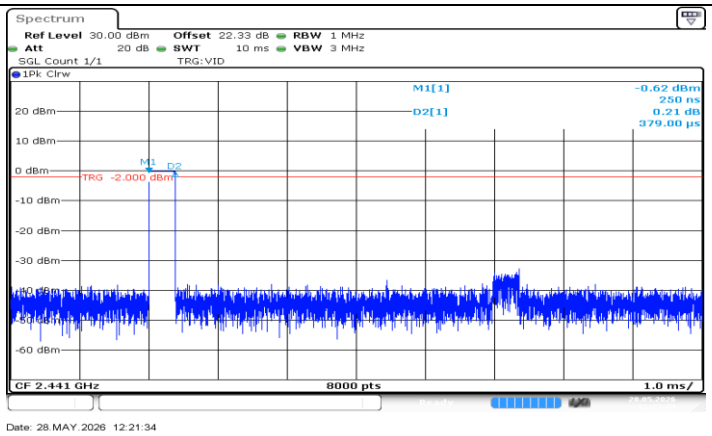
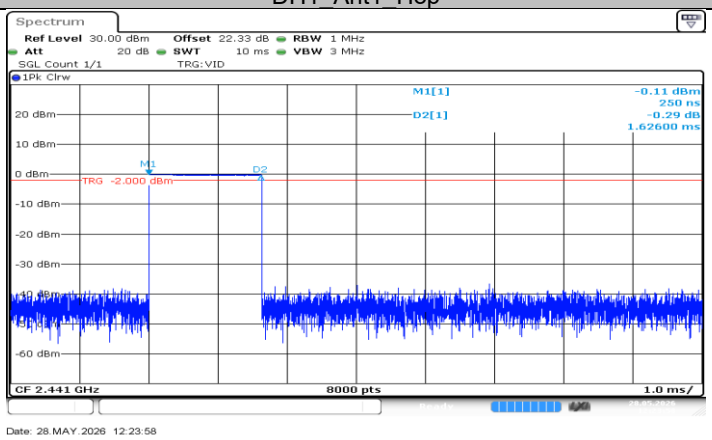
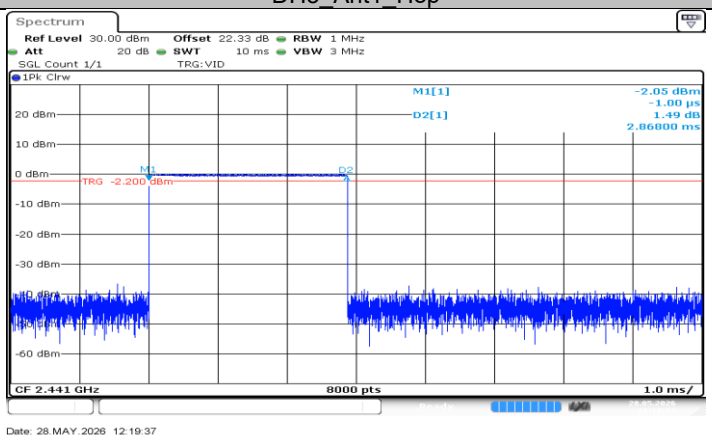
10.5.2. Test Graphs



DH1_Ant1_Hop



DH3_Ant1_Hop



DH5_Ant1_Hop

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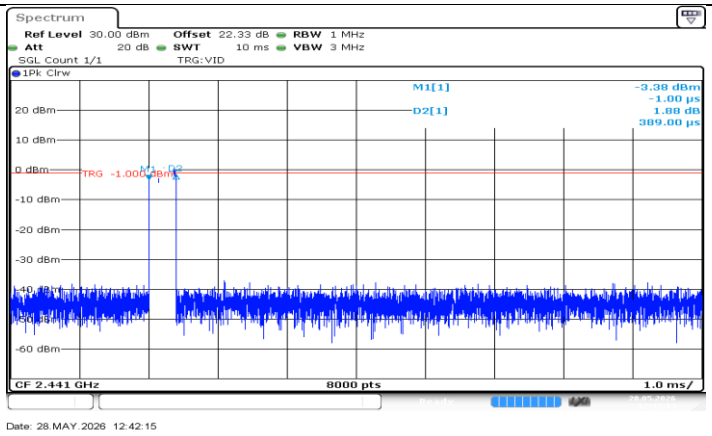
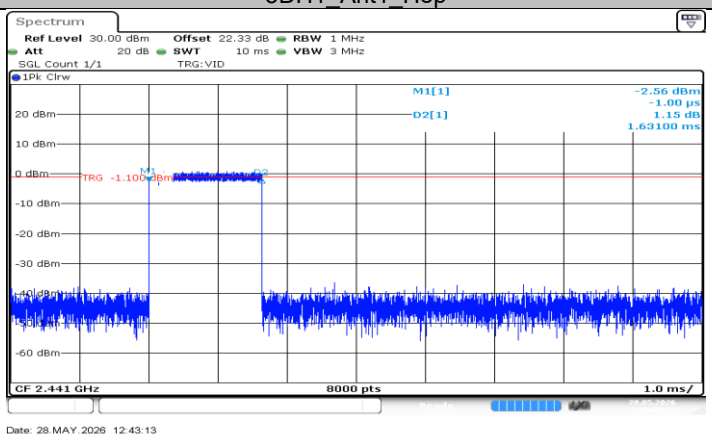
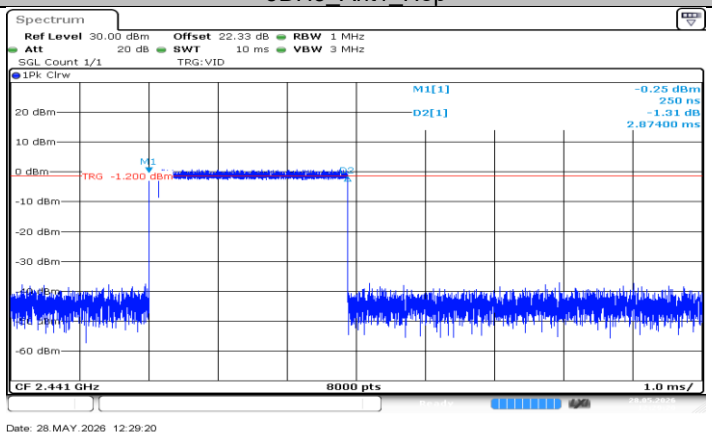


3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

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10.6. APPENDIX F: NUMBER OF HOPPING CHANNELS

10.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

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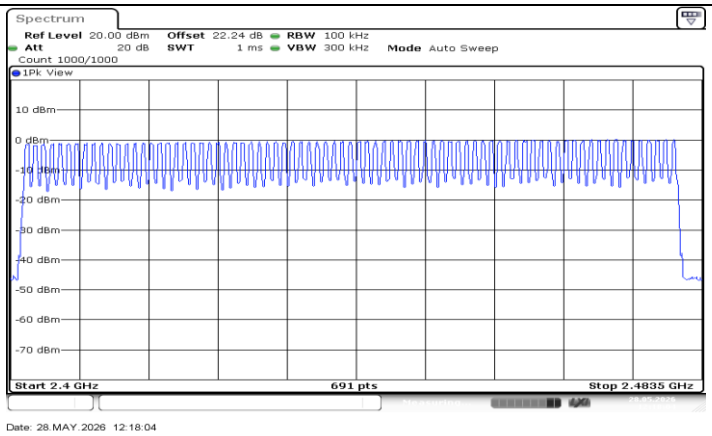
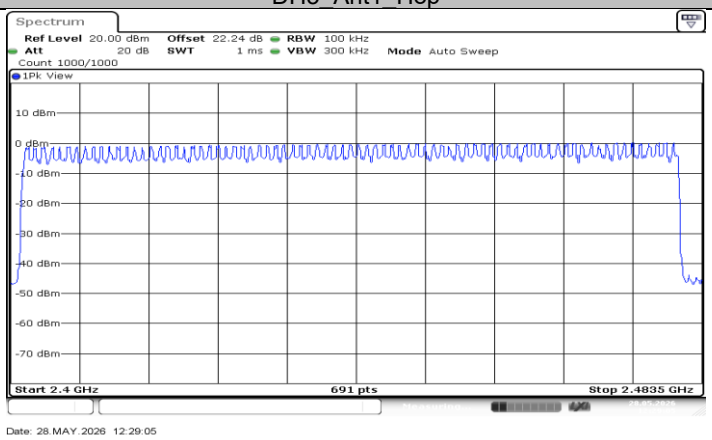
10.6.2. Test Graphs



DH5_Ant1_Hop



3DH5_Ant1_Hop

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10.7. APPENDIX G: BAND EDGE MEASUREMENTS

10.7.1. Test Result

Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.34	-35.94	≤-21.34	PASS
		High	2480	0.15	-34.71	≤-19.85	PASS
		Low	Hop_2402	-1.86	-36.58	≤-21.86	PASS
		High	Hop_2480	0.06	-35.25	≤-19.94	PASS
3DH5	Ant1	Low	2402	-1.35	-36.68	≤-21.35	PASS
		High	2480	0.16	-35.4	≤-19.84	PASS
		Low	Hop_2402	-1.73	-36.19	≤-21.73	PASS
		High	Hop_2480	0.15	-35.25	≤-19.85	PASS

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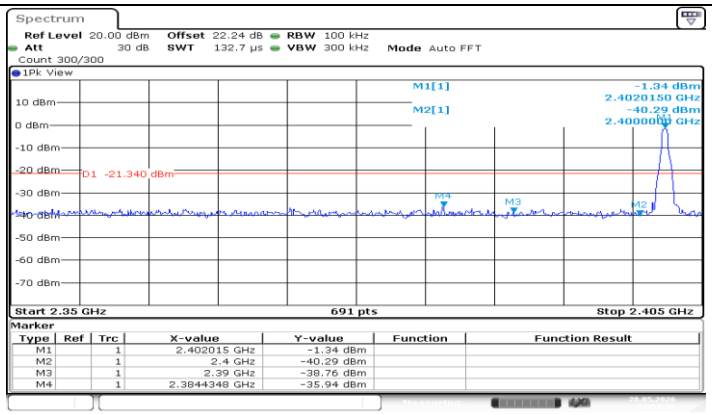
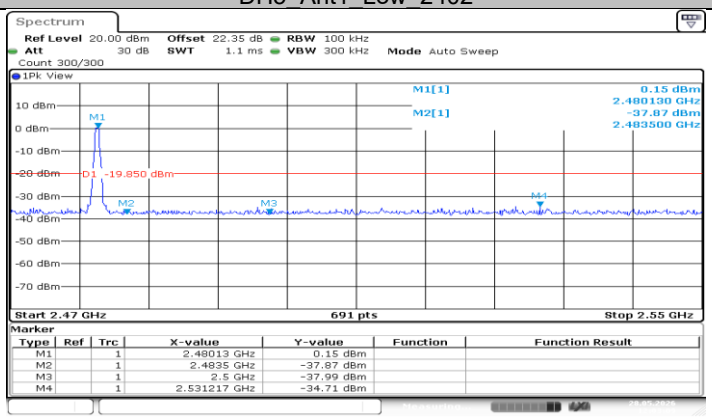
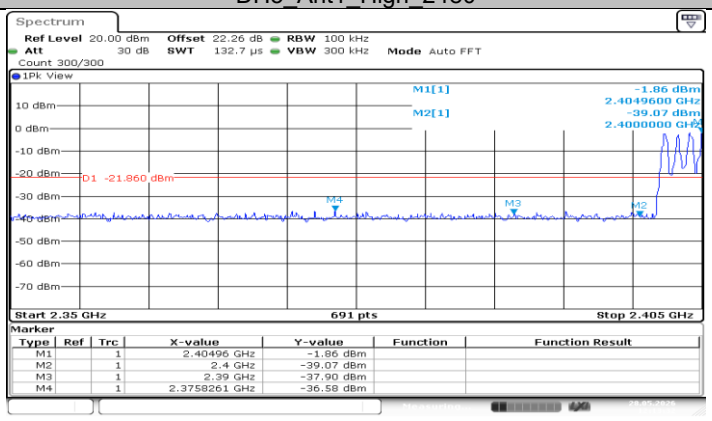
10.7.2. Test Graphs



DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

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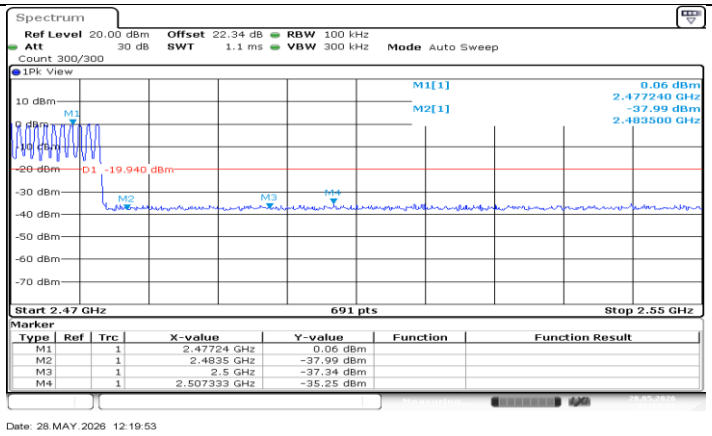
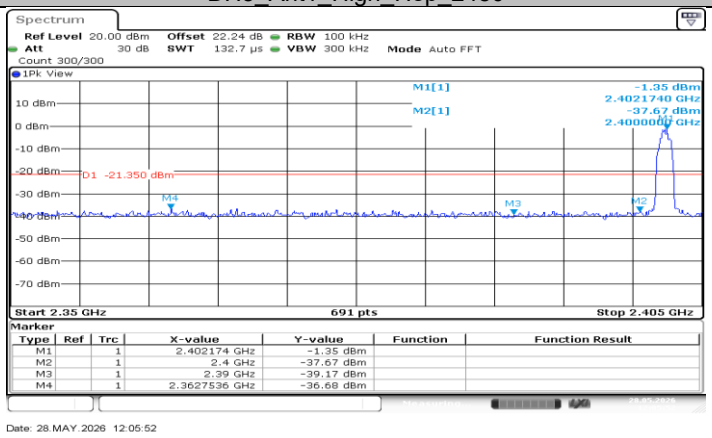
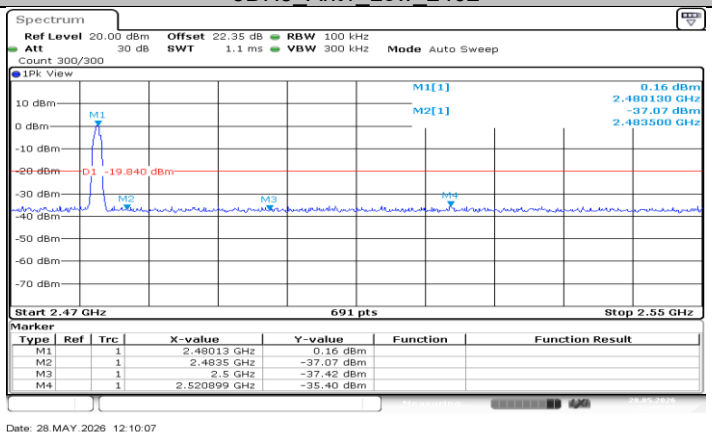


DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

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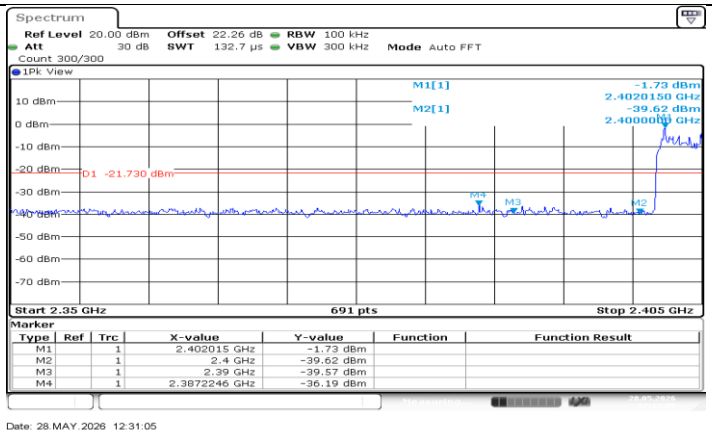
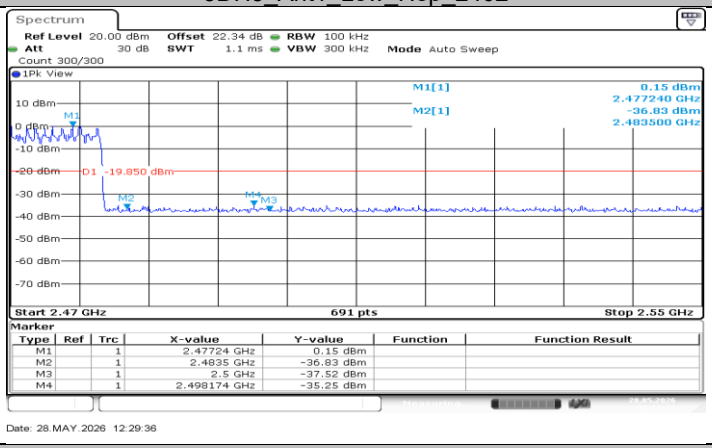


3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

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10.8. APPENDIX H: CONDUCTED SPURIOUS EMISSION

10.8.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.17	---	PASS
			30~1000	-44.77	≤-21.17	PASS
			1000~26500	-39.49	≤-21.17	PASS
		2441	Reference	-0.26	---	PASS
			30~1000	-45.29	≤-20.26	PASS
			1000~26500	-39.33	≤-20.26	PASS
		2480	Reference	0.20	---	PASS
			30~1000	-45.36	≤-19.8	PASS
			1000~26500	-39.82	≤-19.8	PASS
3DH5	Ant1	2402	Reference	-1.18	---	PASS
			30~1000	-45.11	≤-21.18	PASS
			1000~26500	-39.81	≤-21.18	PASS
		2441	Reference	-0.27	---	PASS
			30~1000	-45.1	≤-20.27	PASS
			1000~26500	-39.14	≤-20.27	PASS
		2480	Reference	0.13	---	PASS
			30~1000	-45.33	≤-19.87	PASS
			1000~26500	-40.13	≤-19.87	PASS

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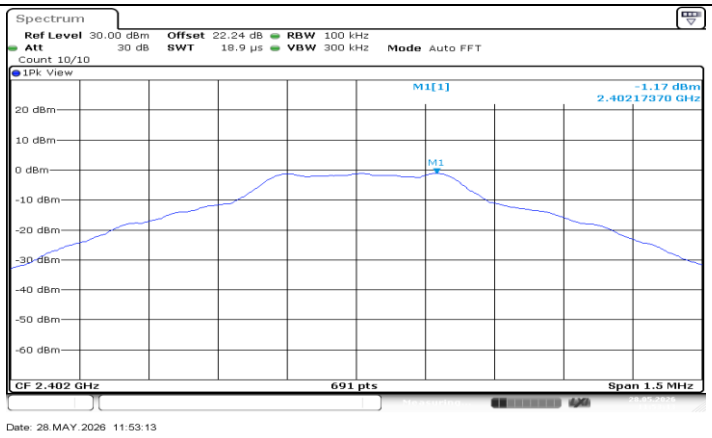
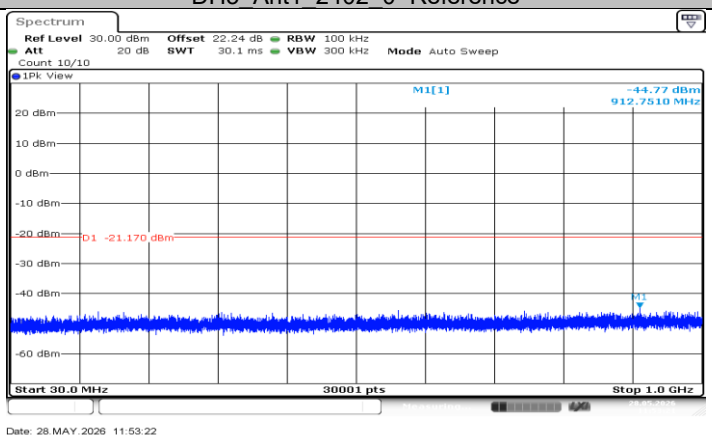
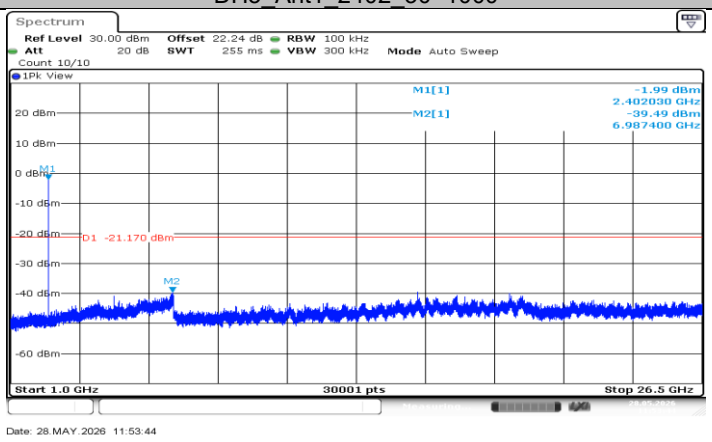
10.8.2. Test Graphs



DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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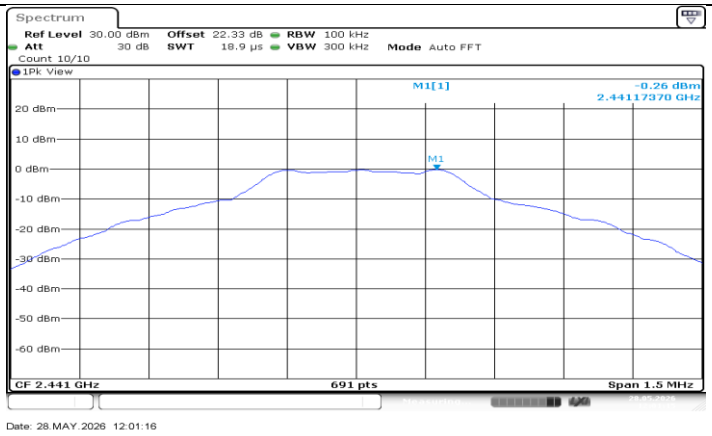
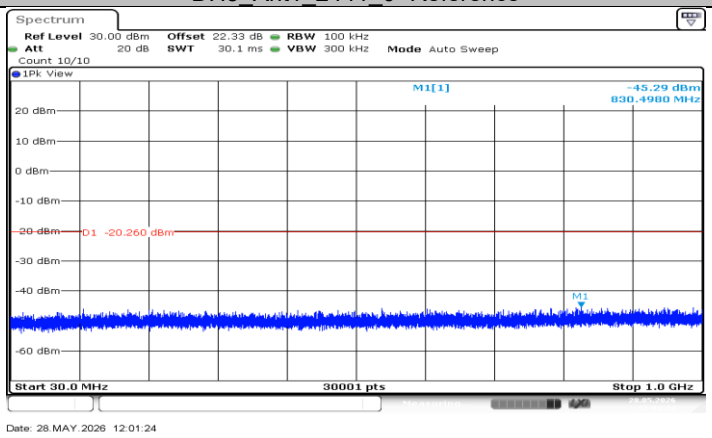
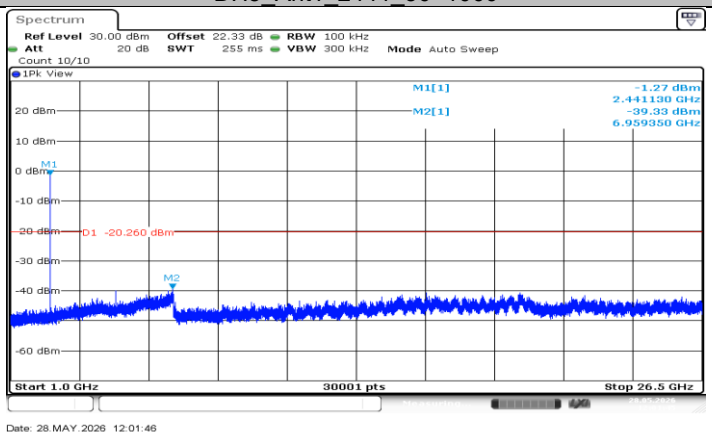


DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500

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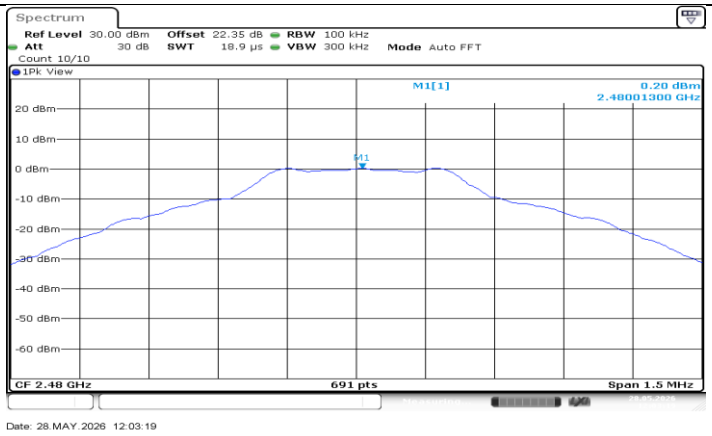

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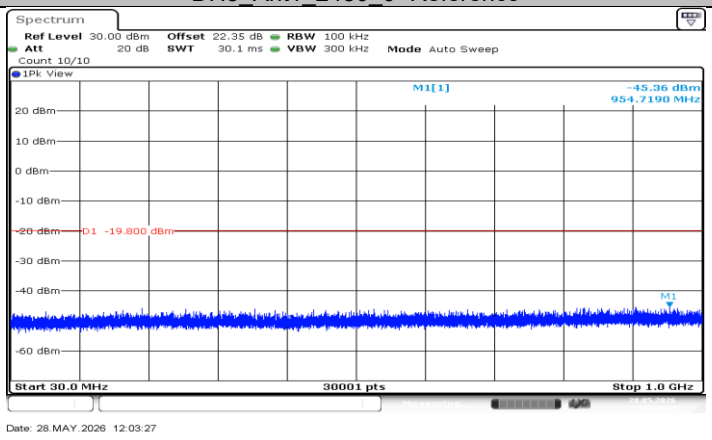

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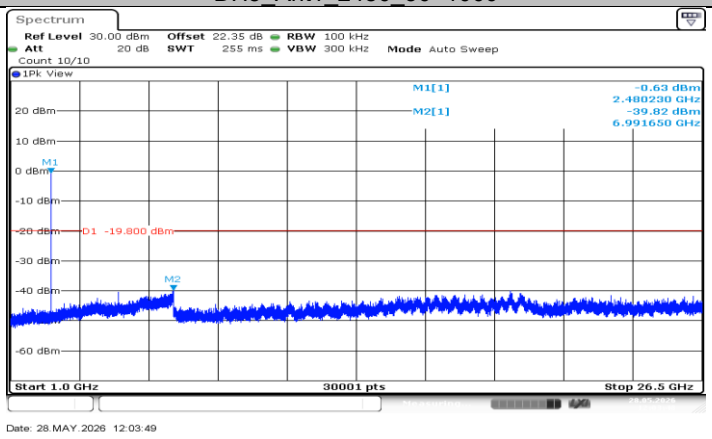

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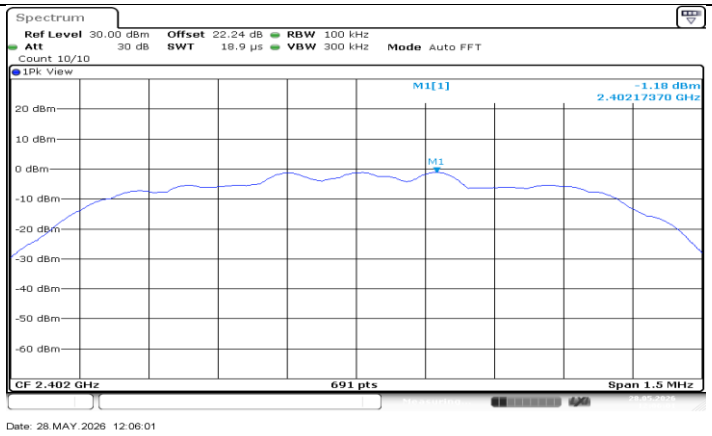

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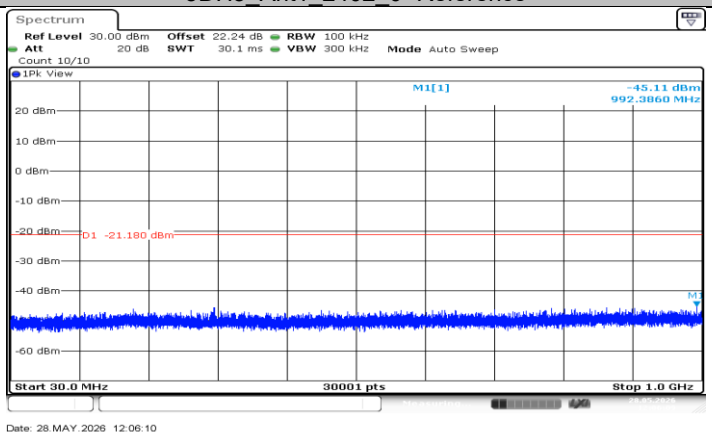

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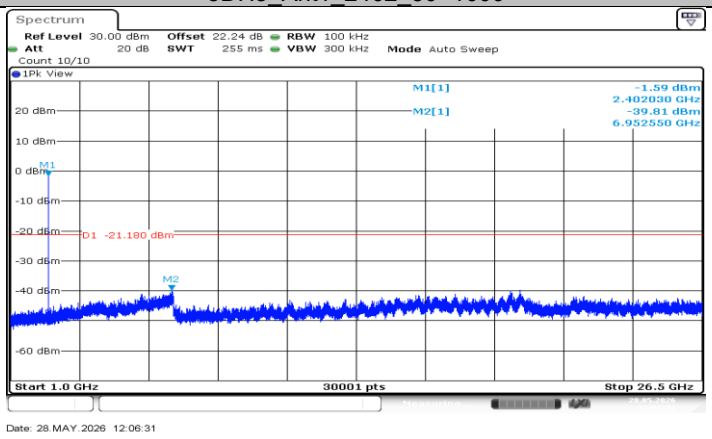

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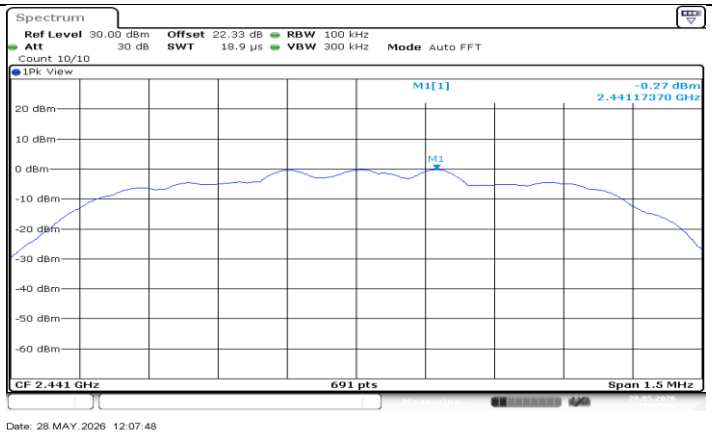

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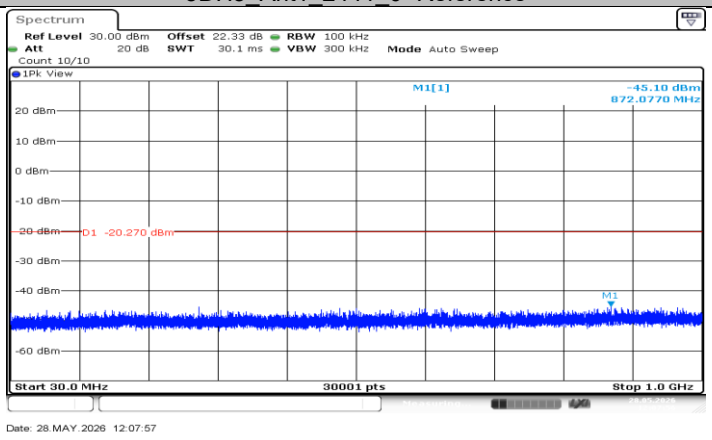

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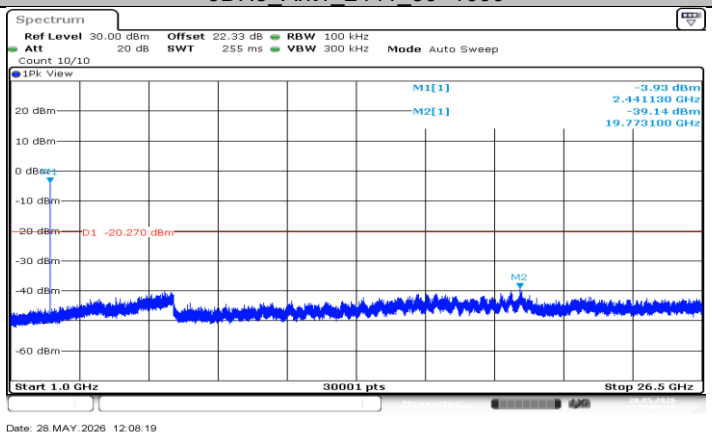

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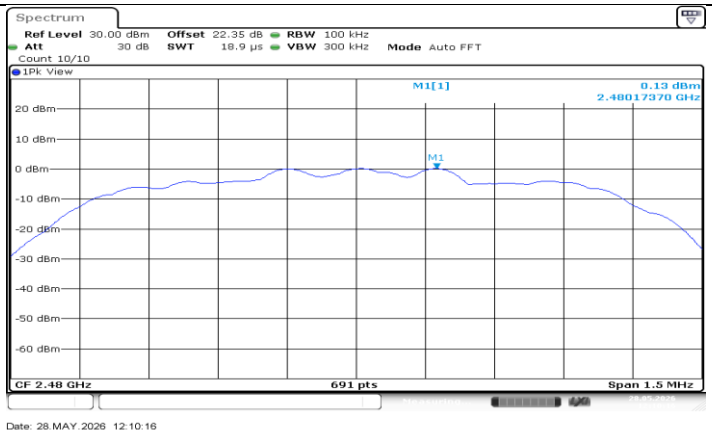

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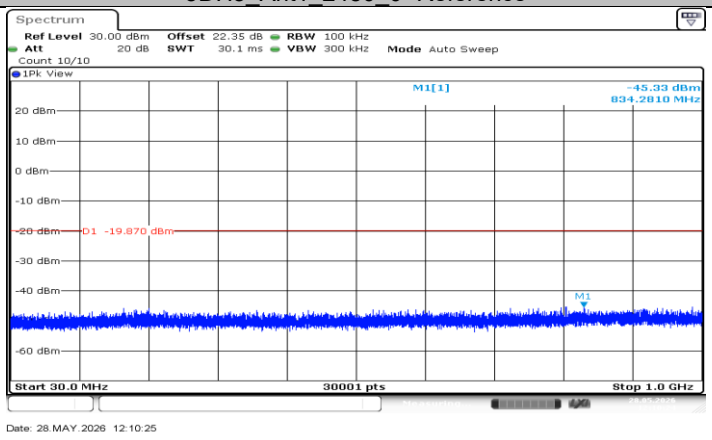

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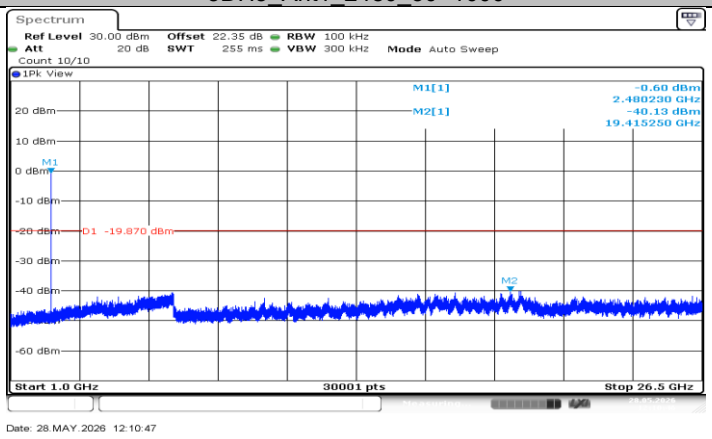

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10.9. APPENDIX I: DUTY CYCLE

10.9.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
DH5	2.88	3.74	0.7701	77.01	1.13	0.35	1
3DH5	2.89	3.74	0.7727	77.27	1.12	0.35	1

Note:
Duty Cycle Correction Factor=10log (1/x).
Where: x is Duty Cycle (Linear)
Where: T is On Time
If that calculated VBW is not available on the analyzer then the next higher value should be used.

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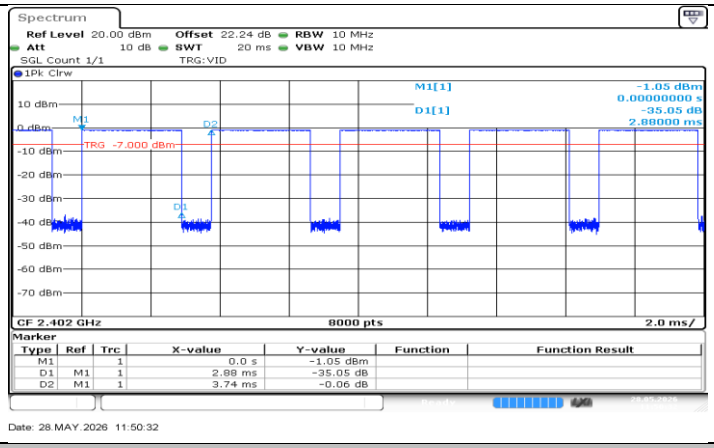
10.9.2. Test Graphs



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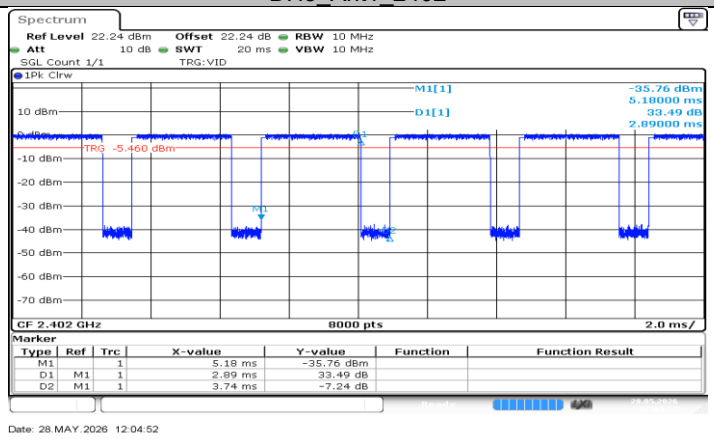

3DH5_Ant1_2402

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