

CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

DJI RC Plus 2

MODEL NUMBER: TKPL2

REPORT NUMBER: 4790917103-3-RF-2

ISSUE DATE: June 22, 2024

FCC ID:SS3-TKPL22310

Prepared for

SZ DJI TECHNOLOGY CO.,LTD.

**Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street,
Nanshan District, Shenzhen**

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	June 22, 2024	Initial Issue	

Summary of Test Results

Test Item	Clause	Limit/Requirement	Result
Antenna Requirement	N/A	FCC 15.203	Pass
AC Power Line Conducted Emission	ANSI C63.10-2013 Clause 6.2	FCC Part 15.207	Pass
Conducted Output Power	ANSI C63.10-2013 Clause 7.8.5	FCC 15.247 (b) (1)	Pass
20 dB Bandwidth and 99% Occupied Bandwidth	ANSI C63.10-2013 Clause 6.9.2	FCC 15.247 (a) (1)	Pass
Carrier Hopping Channel Separation	ANSI C63.10-2013 Clause 7.8.2	FCC 15.247 (a) (1)	Pass
Number of Hopping Frequency	ANSI C63.10-2013 Clause 7.8.3	15.247 (a) (1) III	Pass
Time of Occupancy (Dwell Time)	ANSI C63.10-2013 Clause 7.8.4	15.247 (a) (1) III	Pass
Conducted Bandedge and Spurious Emission	ANSI C63.10-2013 Clause 6.10.4 & Clause 7.8.8	FCC 15.247 (d)	Pass
Radiated Band edge and Spurious Emission	ANSI C63.10-2013 Clause 6.3 & 6.5 & 6.6	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
Duty Cycle	ANSI C63.10-2013, Clause 11.6	None; for reporting purposes only.	Pass

*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 <CFR 47 FCC PART 15 SUBPART C> when <Simple Acceptance> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: SZ DJI TECHNOLOGY CO.,LTD.
 Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen

Manufacturer Information

Company Name: SZ DJI TECHNOLOGY CO.,LTD.
 Address: Lobby of T2, DJI Sky City, No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen

EUT Information

EUT Name: DJI RC Plus 2
 Model: TKPL2
 Sample Received Date: April 26, 2024
 Sample Status: Normal
 Sample ID: 7160783
 Date of Tested: April 26, 2024 to June 22, 2024

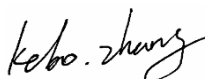
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	Pass

Prepared By:



Fanny Huang
 Engineer Project Associate

Checked By:



Kebo Zhang
 Senior Project Engineer

Approved By:



Stephen Guo
 Operations Manager

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART C, KDB 558074 D01 15.247 Meas Guidance v05r02, 414788 D01 Radiated Test Site v01r01, CFR 47 FCC Part 2, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>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.</p> <p>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</p> <p>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.</p> <p>VCCI (Registration No.: G-20192, C-20153, T-20155 and R-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 D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p>
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of 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.

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)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 26 GHz)	5.78 dB (1 GHz ~ 18 GHz)
	5.23 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.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	DJI RC Plus 2
Model	TKPL2

Frequency Range:	2402 MHz to 2480 MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Type of Modulation:	GFSK, $\Pi/4$ DQPSK, 8DPSK
Normal Test Voltage:	DC 7.2 V

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]	3.06	7.62
8DPSK	2402 ~ 2480	0-78[79]	2.41	6.97

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
π/4-DQPSK	2-DH1	54
	2-DH3	367
	2-DH5	679
8DPSK	3-DH1	83
	3-DH3	552
	3-DH5	1021

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 Worst Case Power Setting Parameter under 2400 ~ 2483.5MHz Band				
Test Software		QRCT		
Modulation Type	Transmit Antenna Number	Test Software setting value		
		CH 00	CH 39	CH 78
GFSK	2	8	8	8
8DPSK	2	8	8	8

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
2	2402-2480	Dipole	4.56

Test Mode	Transmit and Receive Mode	Description
GFSK	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 2 can be used as transmitting/receiving antenna.
8DPSK	<input checked="" type="checkbox"/> 1TX, 1RX	Antenna 2 can be used as transmitting/receiving antenna.
Note: 1. Only SRD 2.4G & WIFI 5G & BT and SRD 5G & WIFI 2.4G & BT can transmit simultaneously. (declare by manufacturer)		

The EUT has 6 separate antennas which correspond to 6 separate antenna ports, core ANT 0, core ANT 1, core ANT 2, core ANT 3, core ANT 4, core ANT 5 correspond to antenna 0, antenna 1, antenna 2, antenna 3, antenna 4, antenna 5 respectively. Antenna 2 and antenna 3 support WIFI 2.4G and WIFI 5G and antenna 2 also support BT. Antenna 0,1,4,5 support SRD. For SRD, the EUT support 1TX4RX and 2TX4RX mode. 1TX4RX and 2TX4RX have the same power setting, so only the worst data for 2TX4RX mode were recorded in the report. For 2T4R mode, antenna 0 and antenna 1/ antenna 0 and antenna 5/ antenna 4 and antenna 1/ antenna 4 and antenna 5 used as transmit antennas and all the 4 antennas can use as receive antennas, all the transmit combination(ANT0 and ANT1 / ANT0 and ANT5 / ANT4 and ANT1 / ANT4 and ANT5) had been tested, but only the worst data was recorded in the report.

5.7. SUPPORT UNITS FOR SYSTEM TEST

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	Lenovo	E42-80	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	Type C	Unshielded	1.0	/

ACCESSORIES

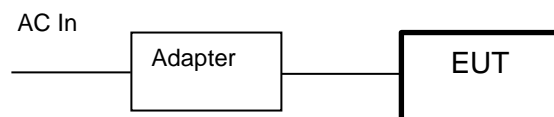
Item	Accessory	Brand Name	Model Name	Description
1	Adapter	/	PD-30CN	Input: AC 100 ~ 240 V, 50/60 Hz Output: DC 5 V, 3 A

TEST SETUP

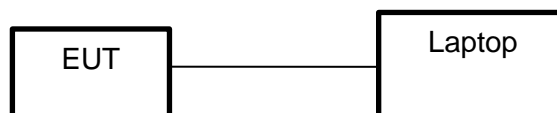
The EUT can work in engineering mode with a software through a laptop.

SETUP DIAGRAM FOR TESTS

For Conducted Emission Test for AC Power Port Test:



For other tests:



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	Mar.25,2024	Mar.24,2025
Vector Signal Generator	R&S	SMBV100A	261637	Oct.12, 2023	Oct.11, 2024
Signal Generator	R&S	SMB100A	178553	Oct.12, 2023	Oct.11, 2024
Signal Analyzer	R&S	FSV40	101118	Oct.12, 2023	Oct.11, 2024
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
Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
Wireless Connectivity Tester	R&S	CMW270	1201.0002N75-102	Sep.25, 2023	Sep.24, 2024
PXA Signal Analyzer	Keysight	N9030A	MY55410512	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5182B	MY56200284	Oct.12, 2023	Oct.11, 2024
MXG Vector Signal Generator	Keysight	N5172B	MY56200301	Oct.12, 2023	Oct.11, 2024
DC power supply	Keysight	E3642A	MY55159130	Oct.12, 2023	Oct.11, 2024
Temperature & Humidity Chamber	SANMOOD	SG-80-CC-2	2088	Oct.12, 2023	Oct.11, 2024
Attenuator	Aglient	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024
RF Control Unit	Tonscend	JS0806-2	23B80620666	Mar.25,2024	Mar.24,2025
Software					
Description	Manufacturer	Name		Version	
Tonsend SRD Test System	Tonsend	JS1120-3 RF Test System		V3.2.22	

Conducted Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
EMI Test Receiver	R&S	ESR3	101961	Oct.13, 2023	Oct.12, 2024
Two-Line V-Network	R&S	ENV216	101983	Oct.13, 2023	Oct.12, 2024
Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Oct.13, 2023	Oct.12, 2024
Software					
Description			Manufacturer	Name	Version
Test Software for Conducted Emissions			Farad	EZ-EMC	Ver. UL-3A1

Radiated Emissions					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
Horn Antenna	TDK	HRN-0118	130940	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
Preamplifier	TDK	PA-02-3	TRS-308-00002	Oct.12, 2023	Oct.11, 2024
Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
Preamplifier	TDK	PA-02-001-3000	TRS-302-00050	Oct.12, 2023	Oct.11, 2024
High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Oct.12, 2023	Oct.11, 2024
Software					
Description			Manufacturer	Name	Version
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	Oct.21, 2023	Oct.20, 2024
Barometer	Yiyi	Baro	N/A	Oct.19, 2023	Oct.18, 2024
Attenuator	Agilent	8495B	2814a12853	Oct.12, 2023	Oct.11, 2024

7. ANTENNA PORT TEST RESULTS

7.1. CONDUCTED OUTPUT POWER

LIMITS

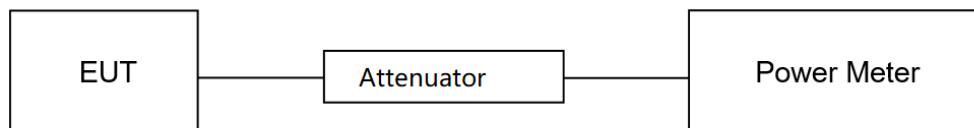
CFR 47 FCC Part15 (15.247), Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (b) (1)	Peak Conducted Output Power	Hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel: 1 watt or 30 dBm; Hopping channel carrier frequencies 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	25.0°C	Relative Humidity	61.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix C

7.2. 20 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1)	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

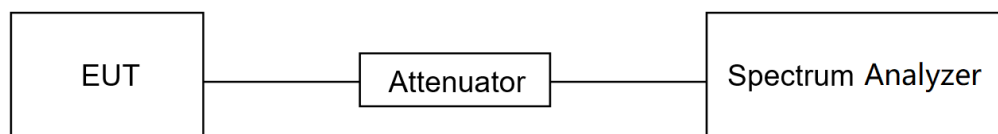
Refer to ANSI C63.10-2013 clause 6.9.2.

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	Approximately 2 to 3 times the 20dB bandwidth
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



TEST ENVIRONMENT

Temperature	25.3°C	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V 60 Hz

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

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

7.3. CARRIER HOPPING CHANNEL SEPARATION

LIMITS

CFR 47 FCC Part15 (15.247)			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1)	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 C63.10-2013 clause 7.8.2.

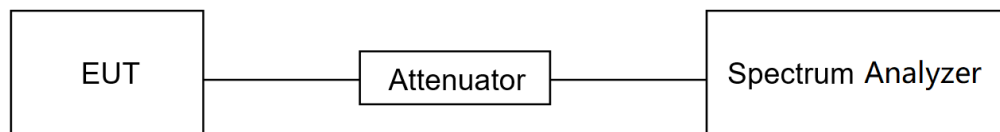
Connect the EUT to the spectrum analyzer and use the following settings:

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	\geq RBW
Trace	Max hold
Sweep time	Auto couple

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



TEST ENVIRONMENT

Temperature	25.0°C	Relative Humidity	61.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix D

7.4. NUMBER OF HOPPING FREQUENCY

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
CFR 47 15.247 (a) (1) III	Number of Hopping Frequency	at least 15 hopping channels

TEST PROCEDURE

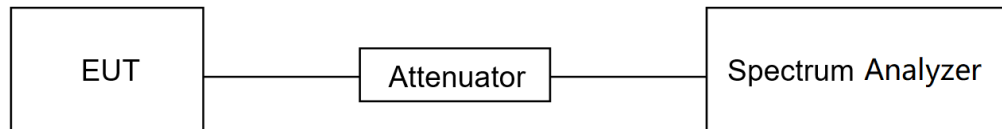
Refer to ANSI C63.10-2013 clause 7.8.3.

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	Auto couple

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



TEST ENVIRONMENT

Temperature	25.0°C	Relative Humidity	61.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix F

7.5. TIME OF OCCUPANCY (DWELL TIME)

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
CFR 47 15.247 (a) (1) III	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 C63.10-2013 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	1 MHz
VBW	≥RBW
Span	Zero span, centered on a hopping channel
Trace	Max hold
Sweep time	As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel

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: $\text{Burst Width} * (1600/2) * 31.6 / (\text{channel number})$

DH3/3DH3 Dwell Time: $\text{Burst Width} * (1600/4) * 31.6 / (\text{channel number})$

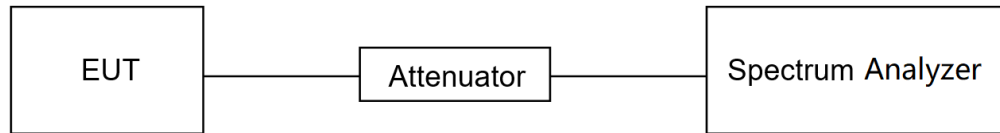
DH5/3DH5 Dwell Time: $\text{Burst Width} * (1600/6) * 31.6 / (\text{channel number})$

For AFHSS Mode (20 Channel):

DH1/3DH1 Dwell Time: $\text{Burst Width} * (800/2) * 8 / (\text{channel number})$

DH3/3DH3 Dwell Time: $\text{Burst Width} * (800/4) * 8 / (\text{channel number})$

DH5/3DH5 Dwell Time: $\text{Burst Width} * (800/6) * 8 / (\text{channel number})$

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.0°C	Relative Humidity	61.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix E

7.6. CONDUCTED BANDEdge AND SPURIOUS EMISSION

LIMITS

CFR 47 FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	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 C63.10-2013 clause 7.8.6 and 7.8.8.

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

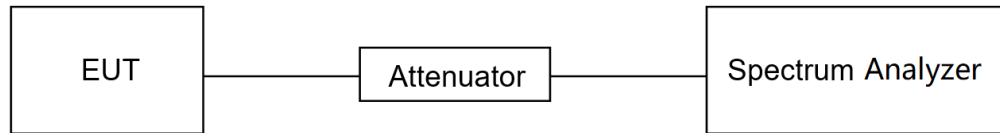
Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

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	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
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

TEST SETUP**TEST ENVIRONMENT**

Temperature	25.0°C	Relative Humidity	61.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

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

7.7. DUTY CYCLE

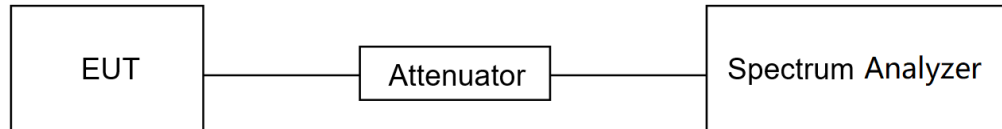
LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Refer to ANSI C63.10-2013 Zero – Span Spectrum Analyzer method.

TEST SETUP



TEST ENVIRONMENT

Temperature	25.0°C	Relative Humidity	61.1%
Atmosphere Pressure	101kPa	Test Voltage	DC 7.2 V

TEST DATE / ENGINEER

Test Date	May 13, 2024	Test By	Johnson Liu
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TEST RESULTS

Please refer to section "Test Data" - Appendix I

8. RADIATED TEST RESULTS

LIMITS

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

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

FCC Restricted bands of operation refer to FCC §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: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

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 C63.10-2013 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.

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 C63.10-2013 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.

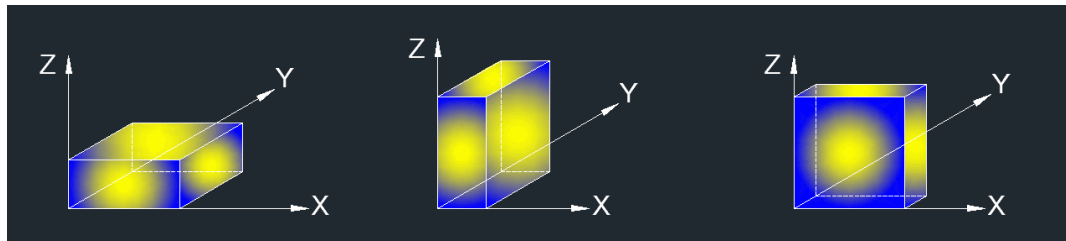
Above 1 GHz

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 C63.10-2013 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.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

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.

For Radiate Spurious Emission (3 GHz ~ 18 GHz):

Note:

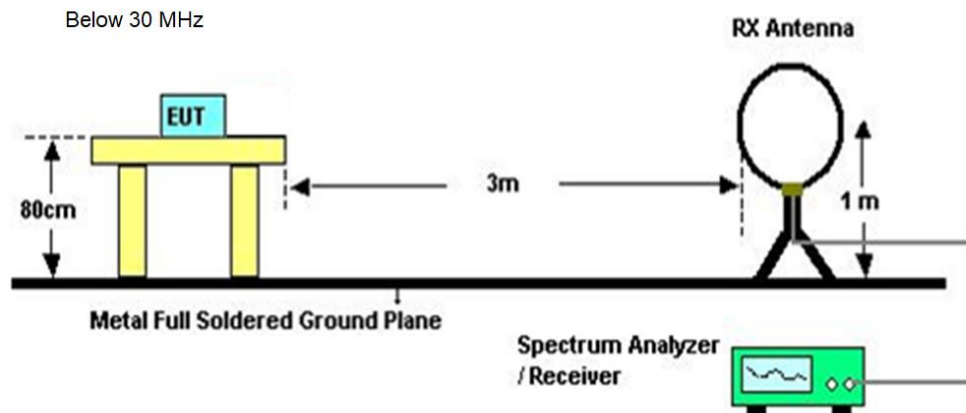
1. Peak Result = Reading Level + Correct Factor.
2. If the peak values are less than the average limit of 54 dBuV/m, the average result is deemed to comply with average limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/T_{on}$, where: T_{on} is the transmitting duration.
5. For the transmitting duration, 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):

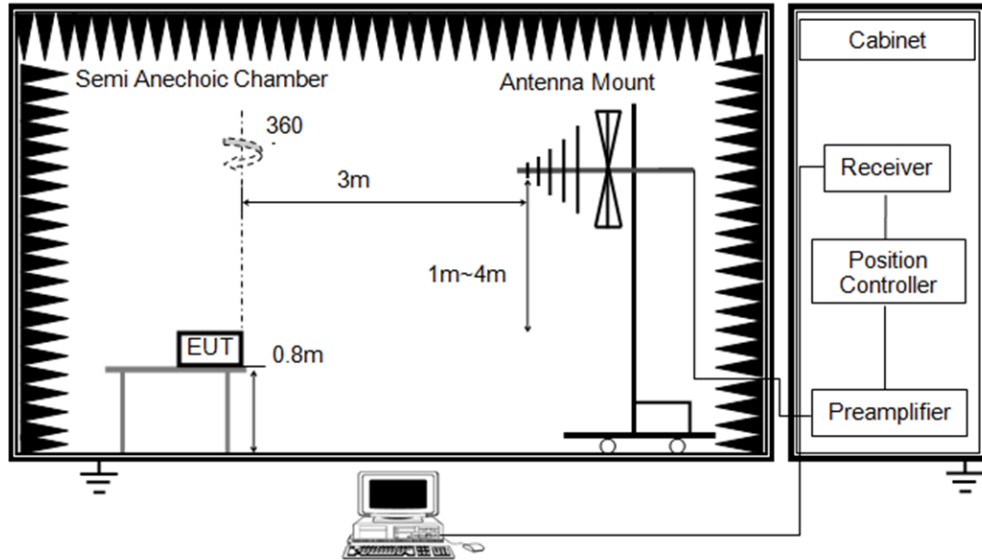
Note:

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.

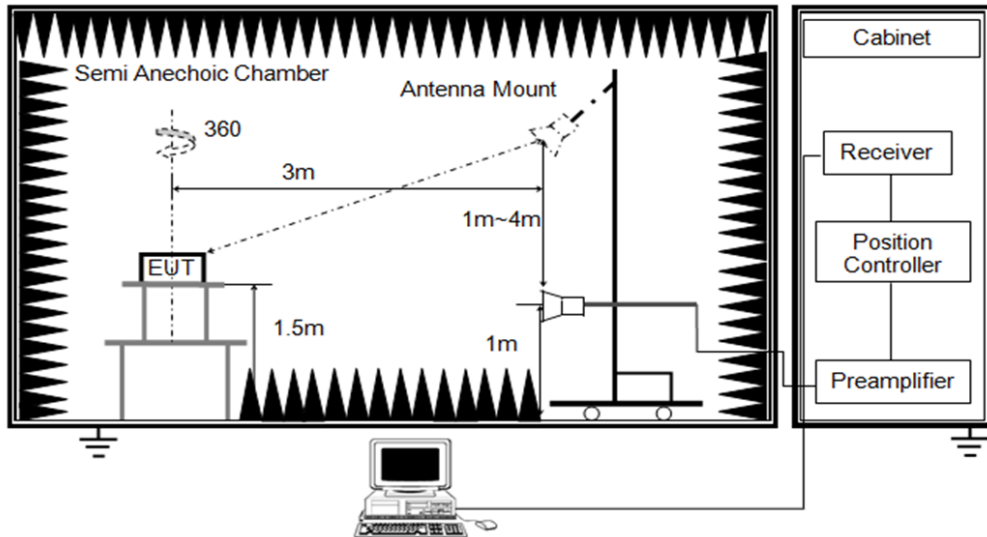
TEST SETUP



Below 1 GHz and above 30 MHz



Above 1 GHz



TEST ENVIRONMENT

Temperature	21.4°C	Relative Humidity	62.1%
Atmosphere Pressure	101kPa	Test Voltage	

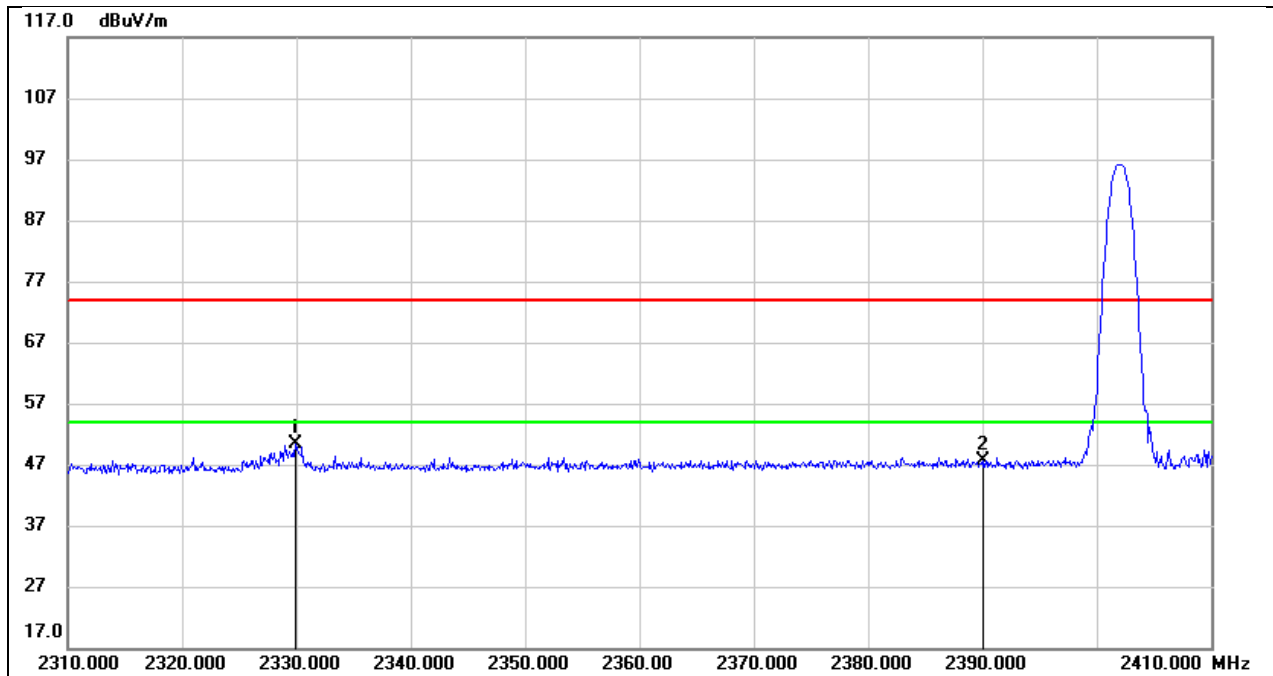
TEST DATE / ENGINEER

Test Date	June 18, 2024	Test By	Mason Wang
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TEST RESULTS

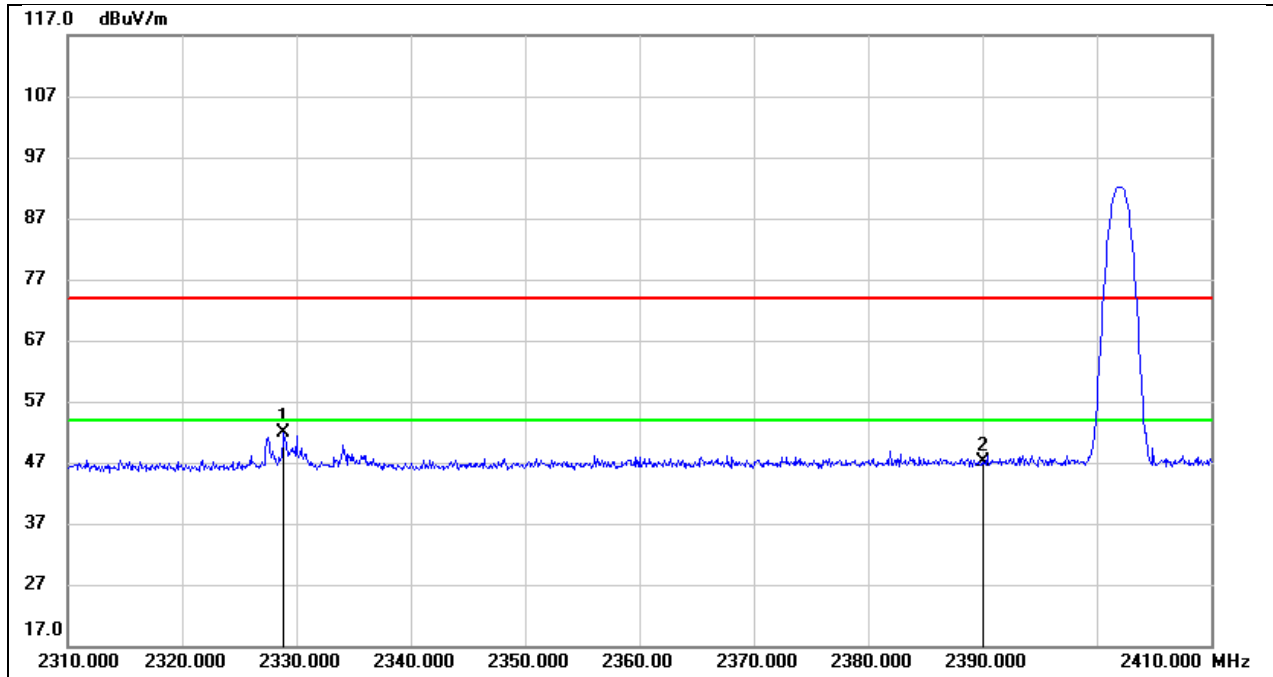
8.1. RESTRICTED BANDEDGE

Test Mode:	GFSK PK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



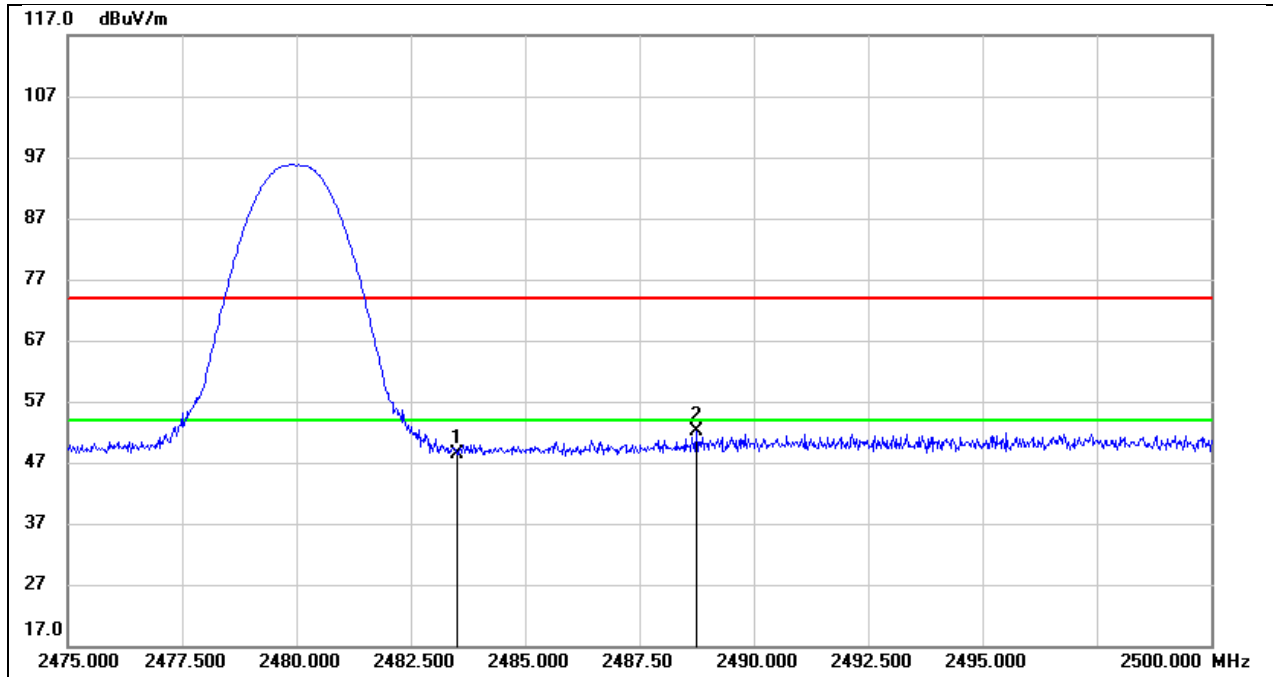
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2329.900	17.78	32.60	50.38	74.00	-23.62	peak
2	2390.000	14.70	32.92	47.62	74.00	-26.38	peak

Test Mode:	GFSK PK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 7.2 V



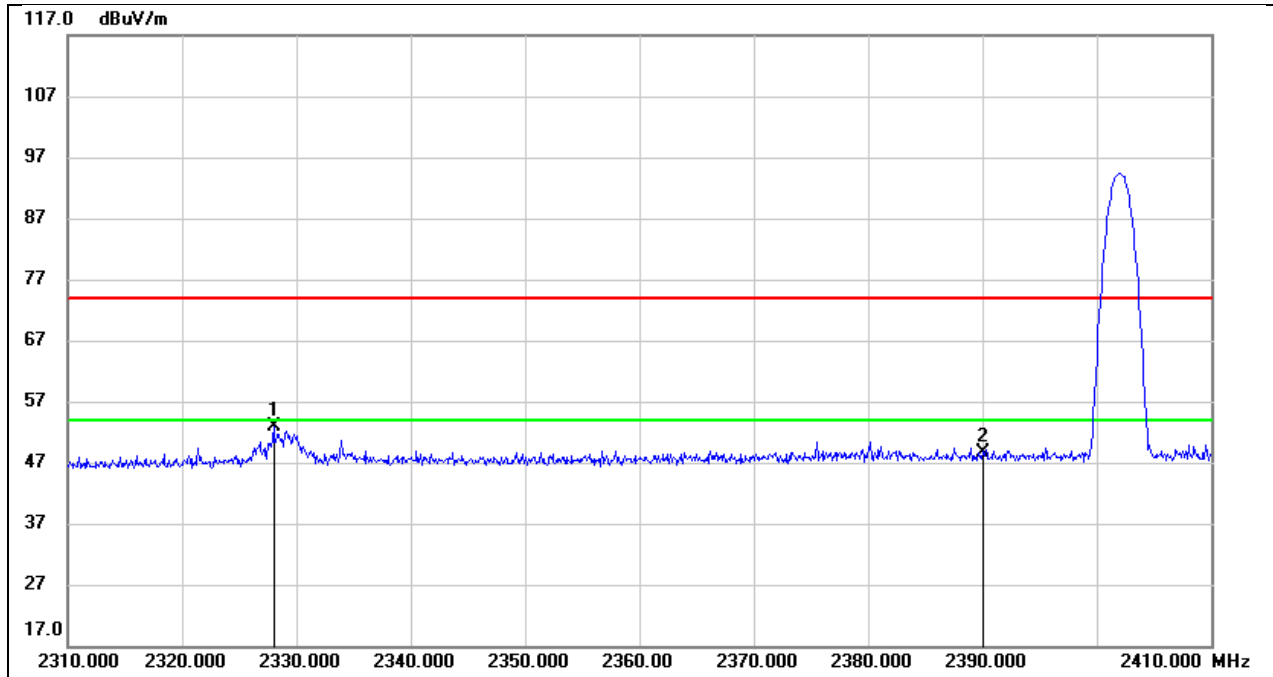
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2328.900	19.20	32.59	51.79	74.00	-22.21	peak
2	2390.000	14.09	32.92	47.01	74.00	-26.99	peak

Test Mode:	GFSK PK	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



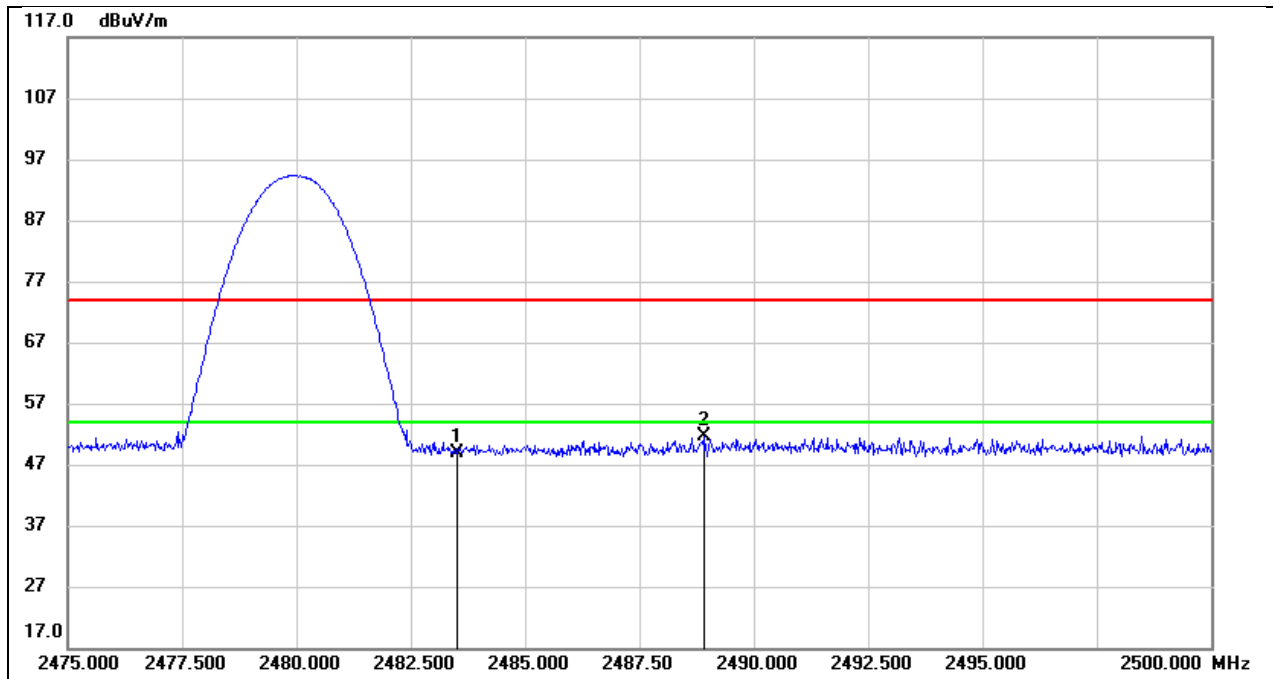
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	15.42	32.94	48.36	74.00	-25.64	peak
2	2488.750	19.15	32.93	52.08	74.00	-21.92	peak

Test Mode:	8DPSK PK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2328.000	20.39	32.58	52.97	74.00	-21.03	peak
2	2390.000	15.67	32.92	48.59	74.00	-25.41	peak

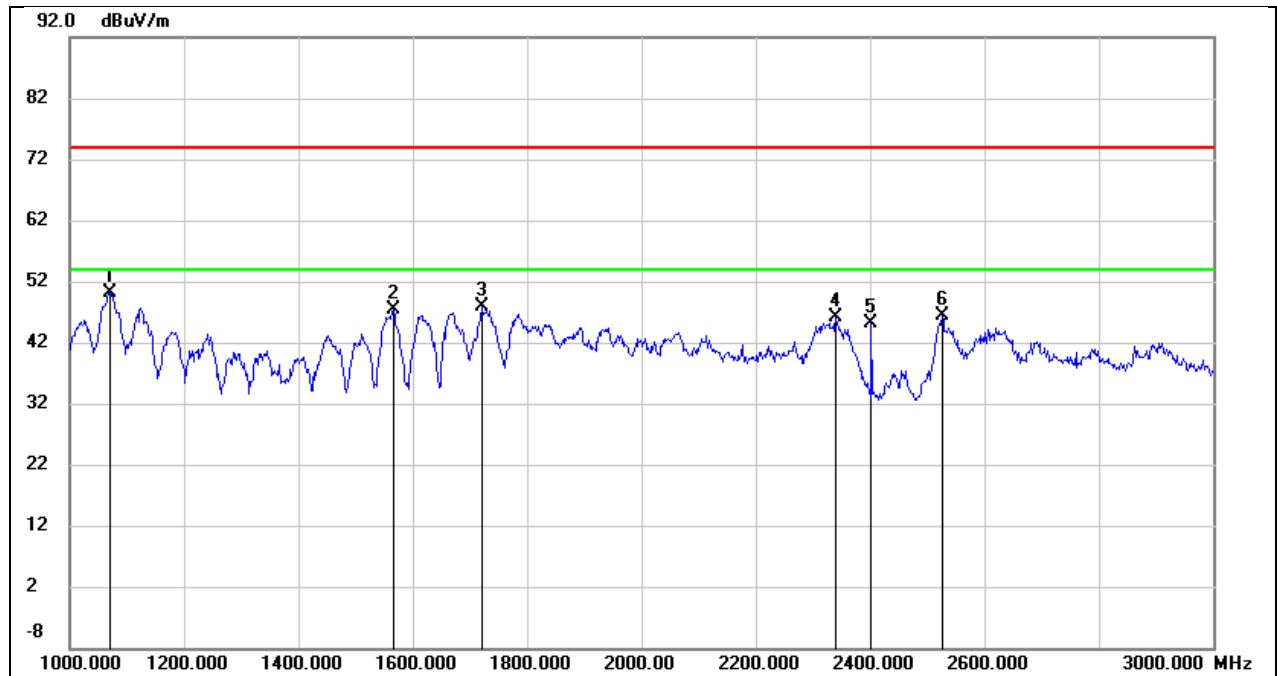
Test Mode:	8DPSK PK	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2483.500	16.05	32.94	48.99	74.00	-25.01	peak
2	2488.900	18.72	32.93	51.65	74.00	-22.35	peak

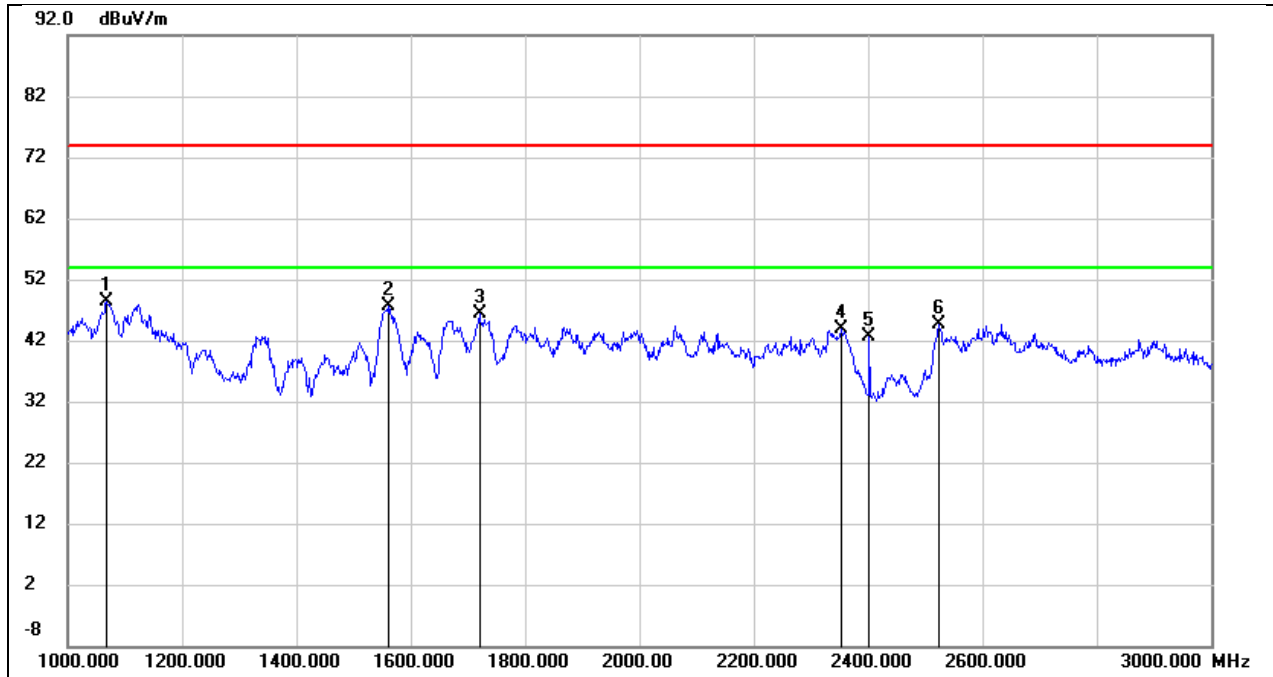
8.2. SPURIOUS EMISSIONS(1 GHZ~3 GHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



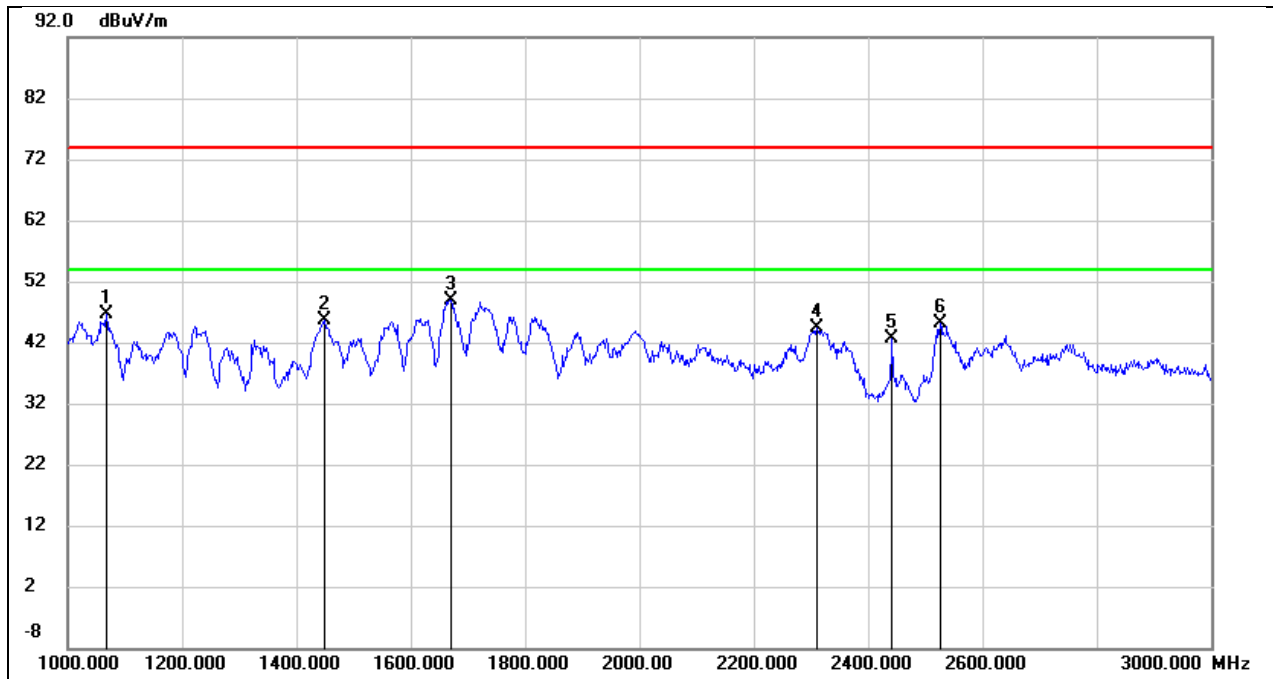
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1070.000	63.91	-13.79	50.12	74.00	-23.88	peak
2	1566.000	58.73	-11.36	47.37	74.00	-26.63	peak
3	1720.000	58.58	-10.61	47.97	74.00	-26.03	peak
4	2340.000	53.87	-7.85	46.02	74.00	-27.98	peak
5	2402.000	52.43	-7.40	45.03	/	/	fundamental
6	2526.000	53.81	-7.54	46.27	74.00	-27.73	peak

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 7.2 V



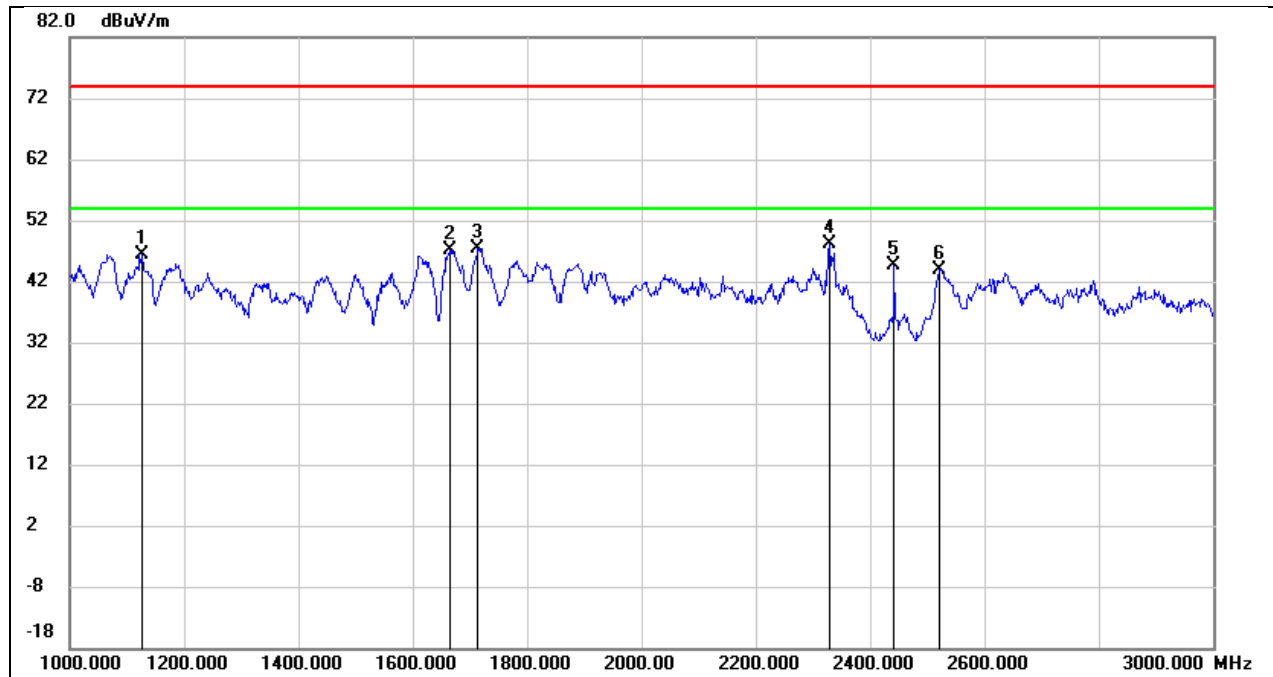
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1068.000	62.26	-13.81	48.45	74.00	-25.55	peak
2	1562.000	59.05	-11.39	47.66	74.00	-26.34	peak
3	1720.000	56.90	-10.61	46.29	74.00	-27.71	peak
4	2352.000	51.70	-7.75	43.95	74.00	-30.05	peak
5	2402.000	50.12	-7.40	42.72	/	/	fundamental
6	2524.000	52.06	-7.54	44.52	74.00	-29.48	peak

Test Mode:	GFSK	Frequency(MHz):	2441
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



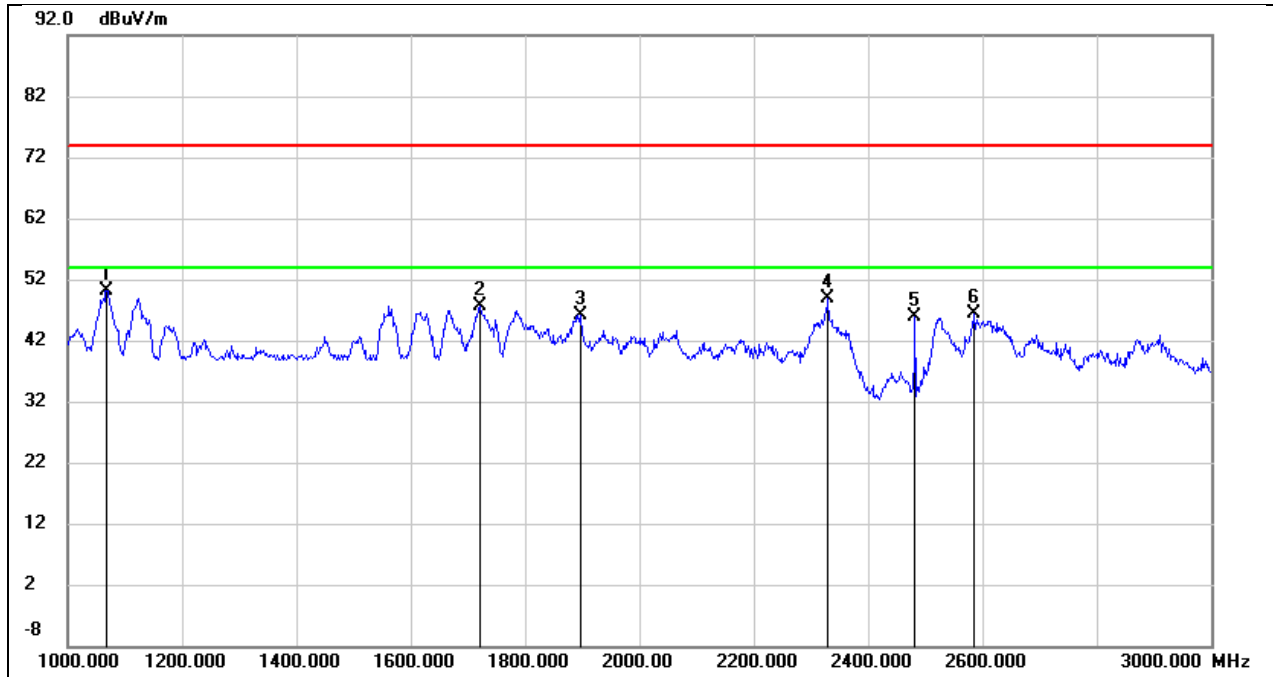
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1068.000	60.50	-13.81	46.69	74.00	-27.31	peak
2	1450.000	57.58	-12.07	45.51	74.00	-28.49	peak
3	1670.000	59.78	-10.84	48.94	74.00	-25.06	peak
4	2310.000	52.44	-8.06	44.38	74.00	-29.62	peak
5	2441.000	49.99	-7.44	42.55	/	/	fundamental
6	2526.000	52.60	-7.54	45.06	74.00	-28.94	peak

Test Mode:	GFSK	Frequency(MHz):	2441
Polarity:	Vertical	Test Voltage:	DC 7.2 V



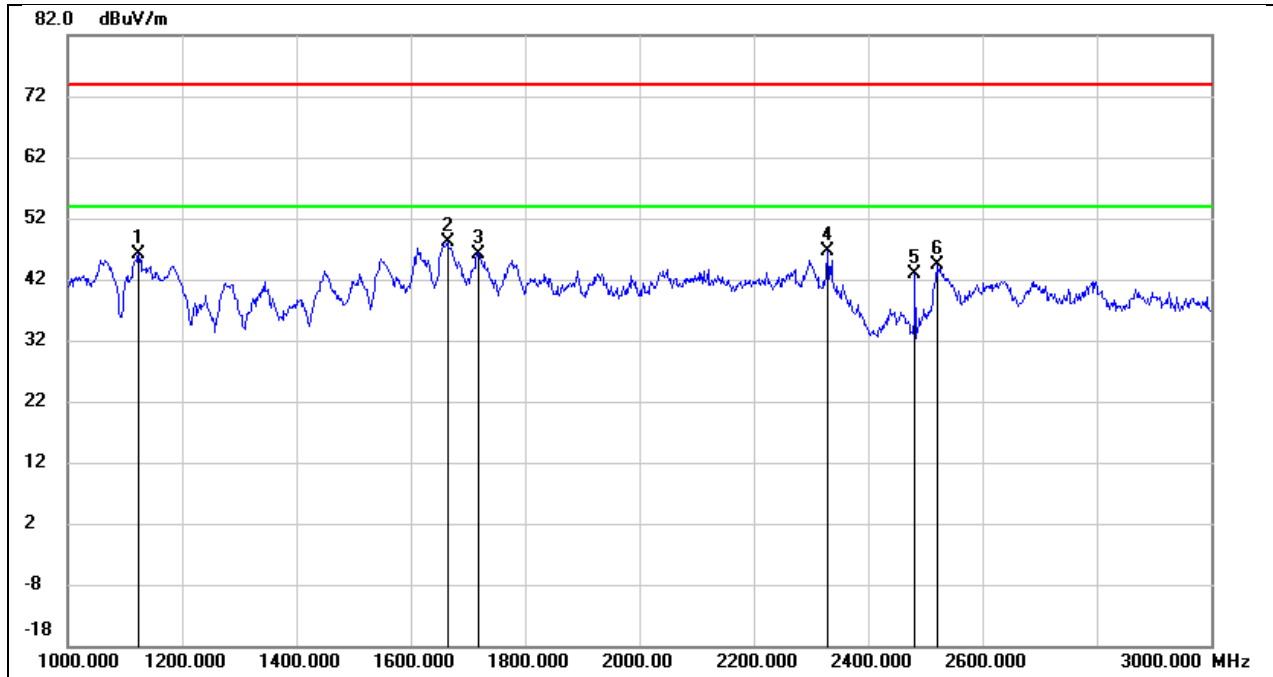
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1126.000	59.61	-13.29	46.32	74.00	-27.68	peak
2	1666.000	57.99	-10.86	47.13	74.00	-26.87	peak
3	1714.000	58.08	-10.64	47.44	74.00	-26.56	peak
4	2330.000	56.07	-7.92	48.15	74.00	-25.85	peak
5	2441.000	52.10	-7.44	44.66	/	/	fundamental
6	2522.000	51.50	-7.53	43.97	74.00	-30.03	peak

Test Mode:	GFSK	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1068.000	64.04	-13.81	50.23	74.00	-23.77	peak
2	1720.000	58.29	-10.61	47.68	74.00	-26.32	peak
3	1896.000	56.38	-10.18	46.20	74.00	-27.80	peak
4	2330.000	56.73	-7.92	48.81	74.00	-25.19	peak
5	2480.000	53.41	-7.47	45.94	/	/	fundamental
6	2586.000	54.12	-7.66	46.46	74.00	-27.54	peak

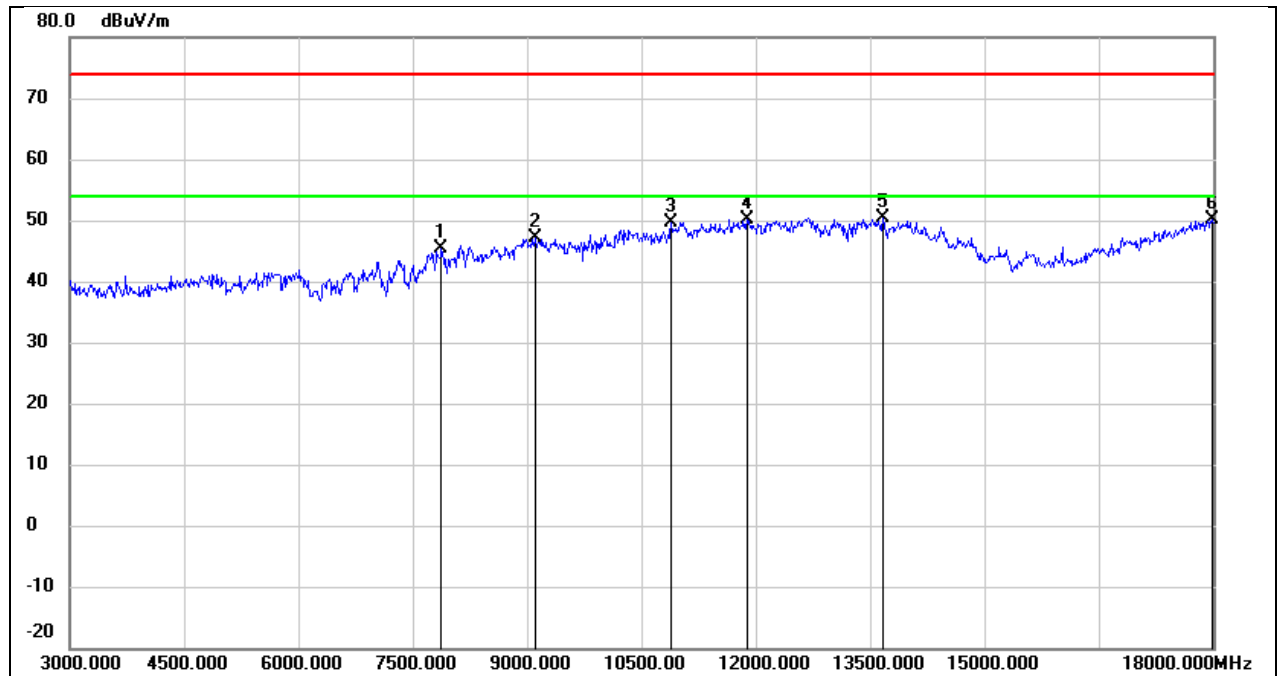
Test Mode:	GFSK	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1124.000	59.33	-13.31	46.02	74.00	-27.98	peak
2	1664.000	59.02	-10.88	48.14	74.00	-25.86	peak
3	1718.000	56.87	-10.62	46.25	74.00	-27.75	peak
4	2330.000	54.59	-7.92	46.67	74.00	-27.33	peak
5	2480.000	50.29	-7.47	42.82	/	/	fundamental
6	2520.000	51.99	-7.54	44.45	74.00	-29.55	peak

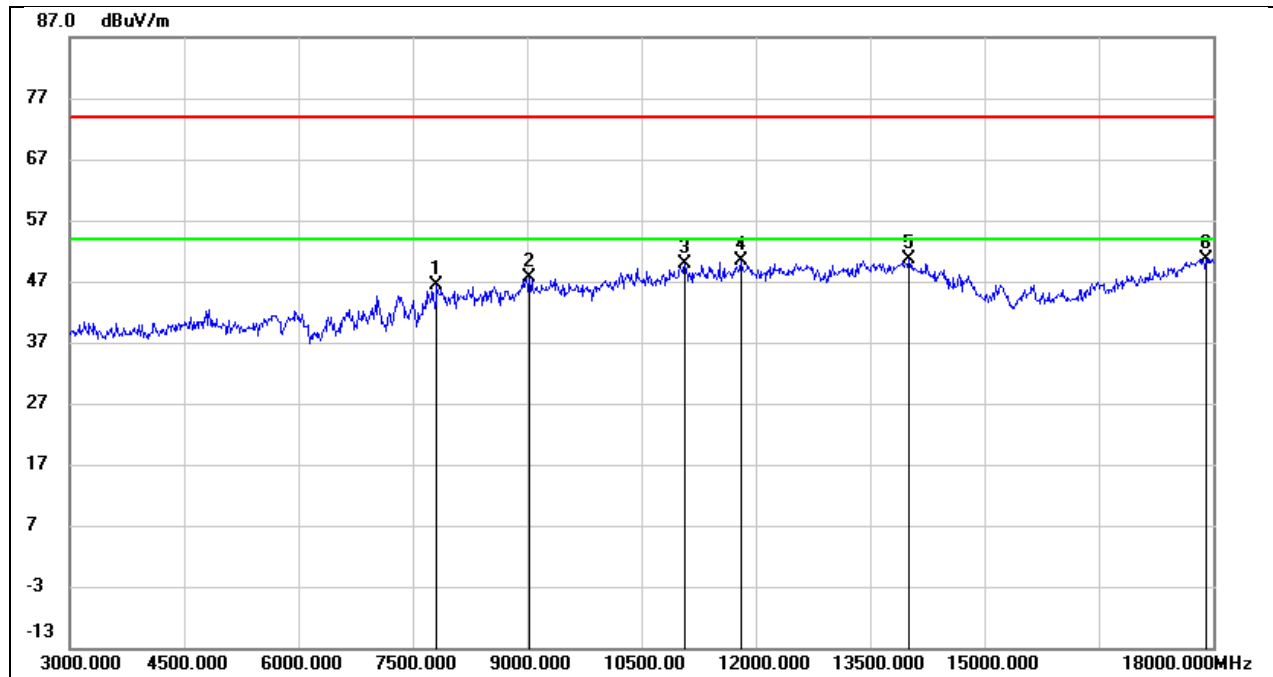
8.3. SPURIOUS EMISSIONS(3 GHZ~18 GHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



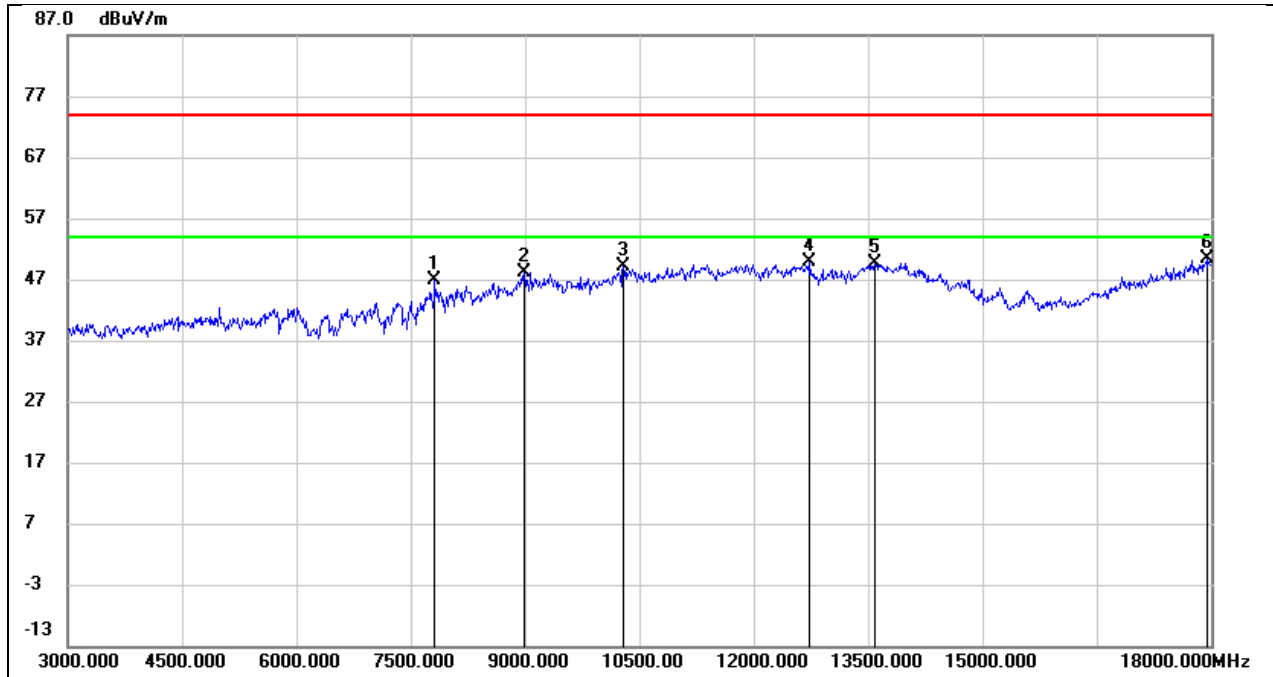
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7875.000	38.08	7.33	45.41	74.00	-28.59	peak
2	9105.000	36.65	10.57	47.22	74.00	-26.78	peak
3	10890.000	35.27	14.39	49.66	74.00	-24.34	peak
4	11880.000	32.07	17.97	50.04	74.00	-23.96	peak
5	13665.000	28.31	21.98	50.29	74.00	-23.71	peak
6	17985.000	23.35	26.77	50.12	74.00	-23.88	peak

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 7.2 V



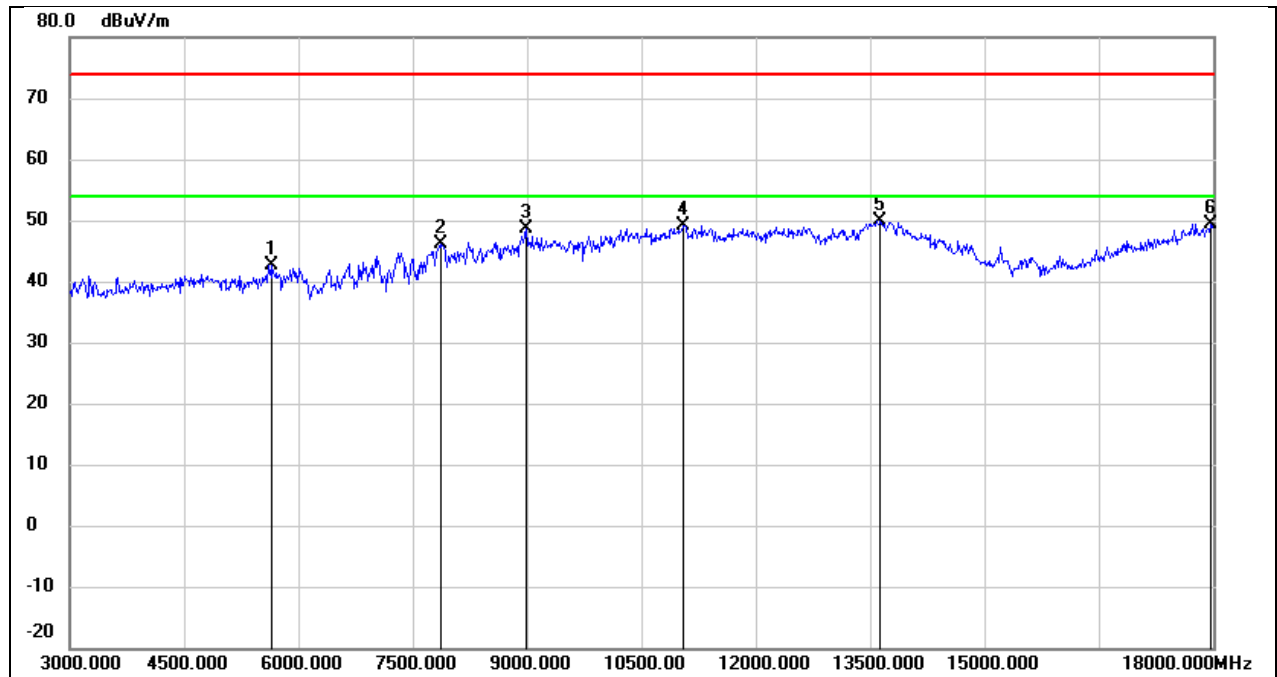
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7815.000	38.90	7.50	46.40	74.00	-27.60	peak
2	9030.000	36.68	11.00	47.68	74.00	-26.32	peak
3	11070.000	34.70	15.08	49.78	74.00	-24.22	peak
4	11805.000	32.73	17.65	50.38	74.00	-23.62	peak
5	14010.000	28.02	22.73	50.75	74.00	-23.25	peak
6	17910.000	24.23	26.50	50.73	74.00	-23.27	peak

Test Mode:	GFSK	Frequency(MHz):	2441
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



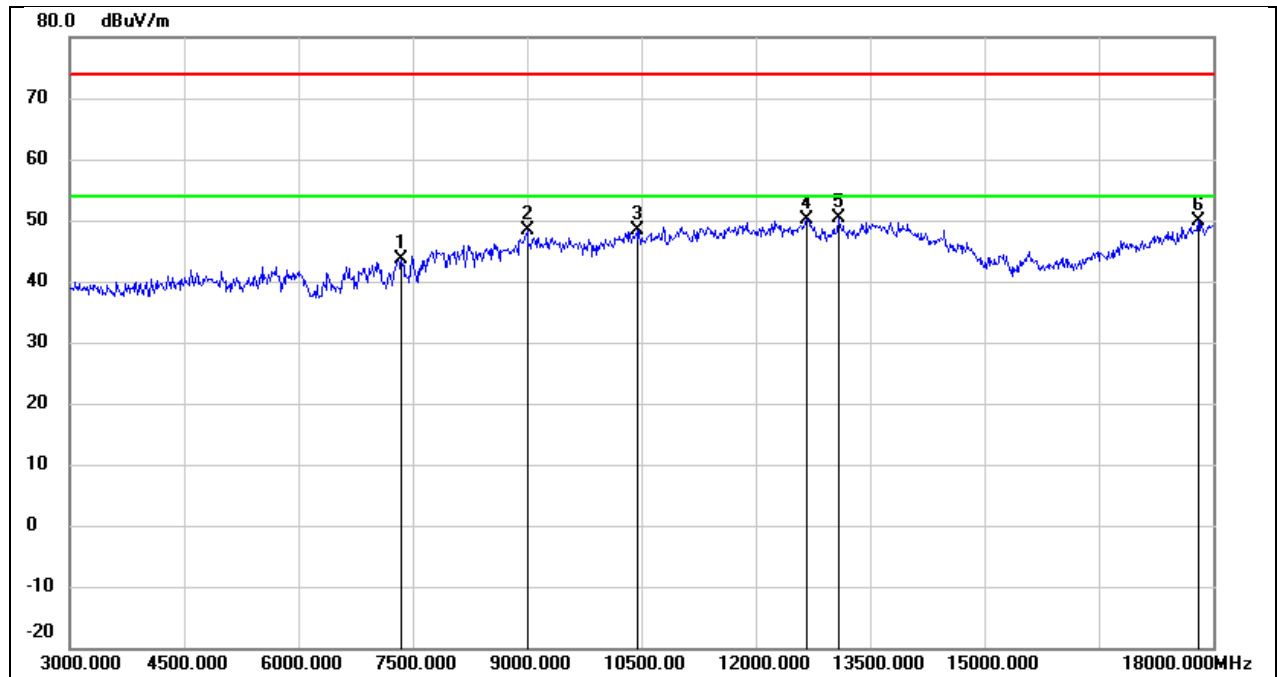
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7815.000	39.37	7.50	46.87	74.00	-27.13	peak
2	8985.000	37.24	10.97	48.21	74.00	-25.79	peak
3	10290.000	36.18	12.93	49.11	74.00	-24.89	peak
4	12735.000	31.12	18.77	49.89	74.00	-24.11	peak
5	13590.000	28.08	21.66	49.74	74.00	-24.26	peak
6	17940.000	23.84	26.61	50.45	74.00	-23.55	peak

Test Mode:	GFSK	Frequency(MHz):	2441
Polarity:	Vertical	Test Voltage:	DC 7.2 V



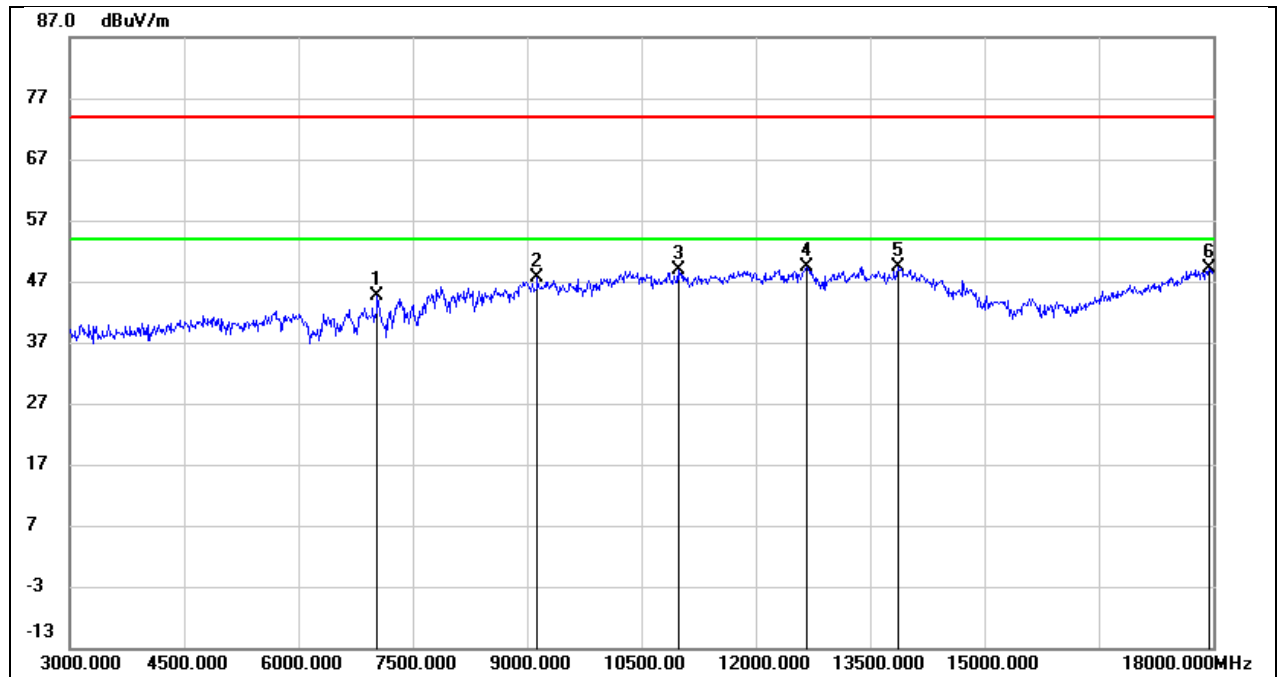
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5655.000	40.02	2.67	42.69	74.00	-31.31	peak
2	7875.000	38.89	7.33	46.22	74.00	-27.78	peak
3	8985.000	37.54	10.97	48.51	74.00	-25.49	peak
4	11055.000	34.15	15.04	49.19	74.00	-24.81	peak
5	13635.000	28.03	21.83	49.86	74.00	-24.14	peak
6	17970.000	22.75	26.72	49.47	74.00	-24.53	peak

Test Mode:	GFSK	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



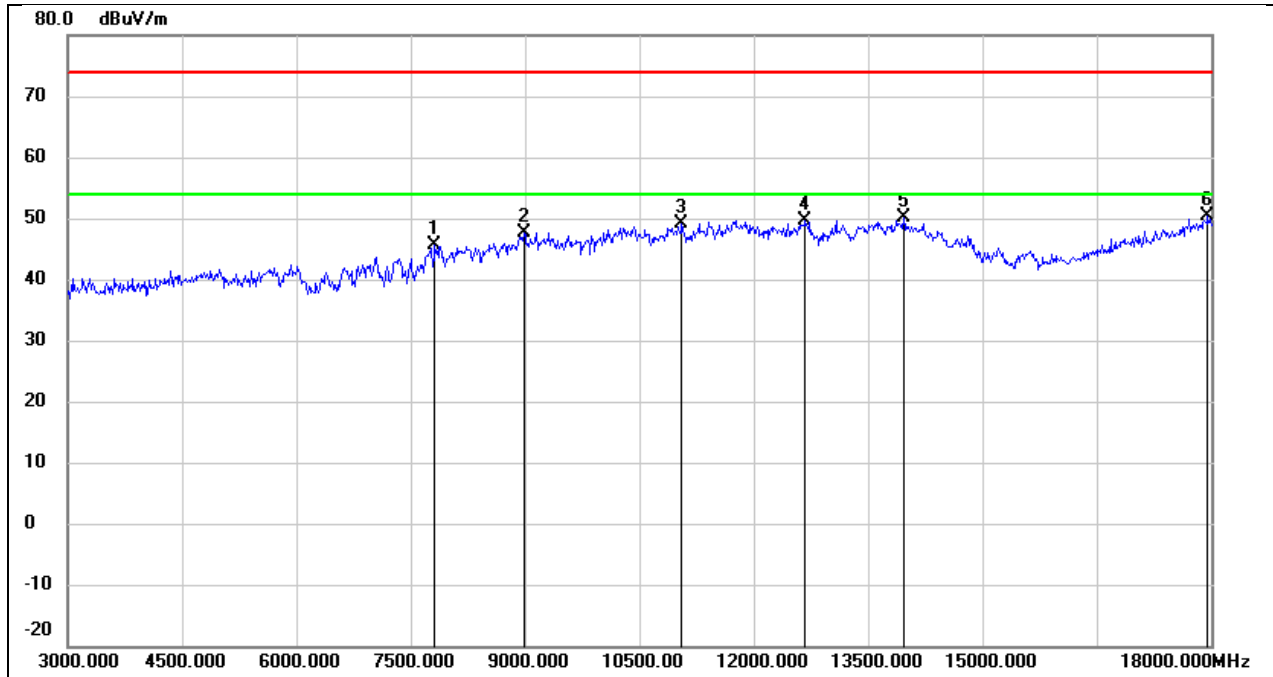
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7350.000	36.39	7.17	43.56	74.00	-30.44	peak
2	9000.000	37.14	11.17	48.31	74.00	-25.69	peak
3	10440.000	34.71	13.56	48.27	74.00	-25.73	peak
4	12675.000	31.68	18.54	50.22	74.00	-23.78	peak
5	13080.000	30.93	19.50	50.43	74.00	-23.57	peak
6	17805.000	23.86	26.11	49.97	74.00	-24.03	peak

Test Mode:	GFSK	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 7.2 V



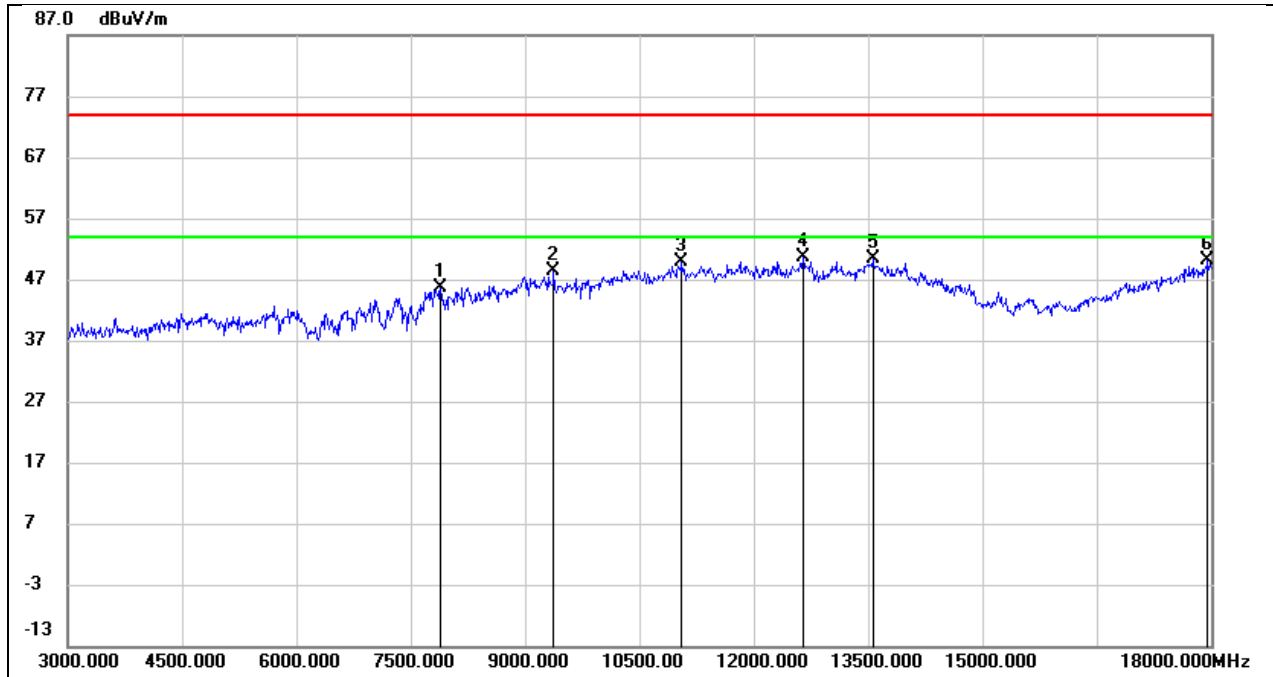
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	37.42	7.28	44.70	74.00	-29.30	peak
2	9135.000	37.23	10.39	47.62	74.00	-26.38	peak
3	10980.000	34.09	14.82	48.91	74.00	-25.09	peak
4	12660.000	30.82	18.49	49.31	74.00	-24.69	peak
5	13860.000	26.78	22.68	49.46	74.00	-24.54	peak
6	17940.000	22.57	26.61	49.18	74.00	-24.82	peak

Test Mode:	8DPSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



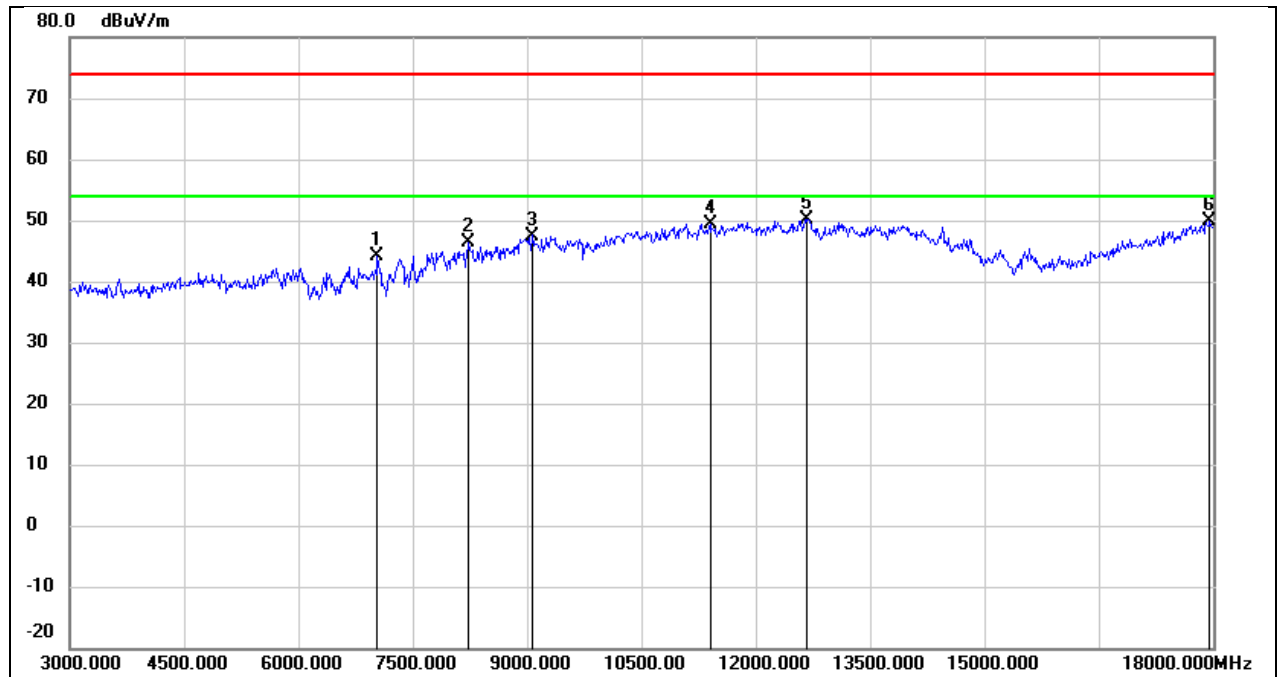
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7815.000	38.09	7.50	45.59	74.00	-28.41	peak
2	8985.000	36.71	10.97	47.68	74.00	-26.32	peak
3	11055.000	34.13	15.04	49.17	74.00	-24.83	peak
4	12675.000	31.06	18.54	49.60	74.00	-24.40	peak
5	13965.000	27.42	22.74	50.16	74.00	-23.84	peak
6	17955.000	23.61	26.66	50.27	74.00	-23.73	peak

Test Mode:	8DPSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 7.2 V



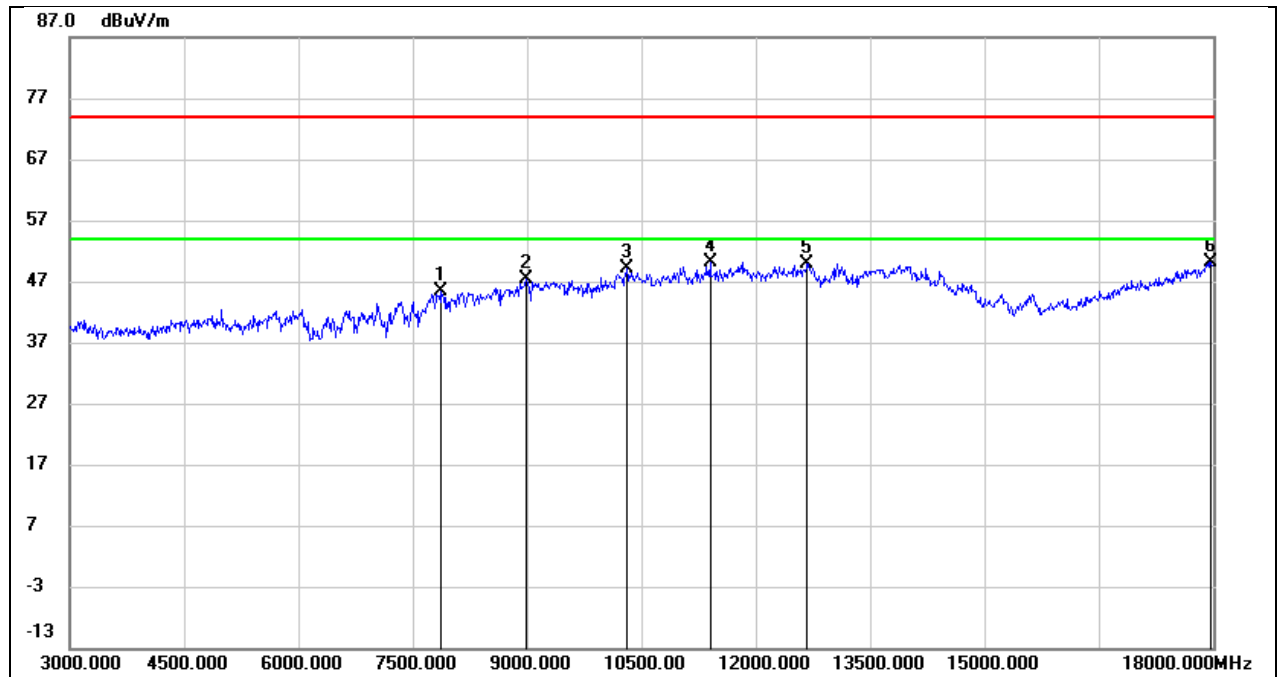
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7890.000	38.41	7.29	45.70	74.00	-28.30	peak
2	9375.000	37.91	10.40	48.31	74.00	-25.69	peak
3	11055.000	34.95	15.04	49.99	74.00	-24.01	peak
4	12645.000	32.25	18.44	50.69	74.00	-23.31	peak
5	13560.000	28.66	21.67	50.33	74.00	-23.67	peak
6	17955.000	23.46	26.66	50.12	74.00	-23.88	peak

Test Mode:	8DPSK	Frequency(MHz):	2441
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



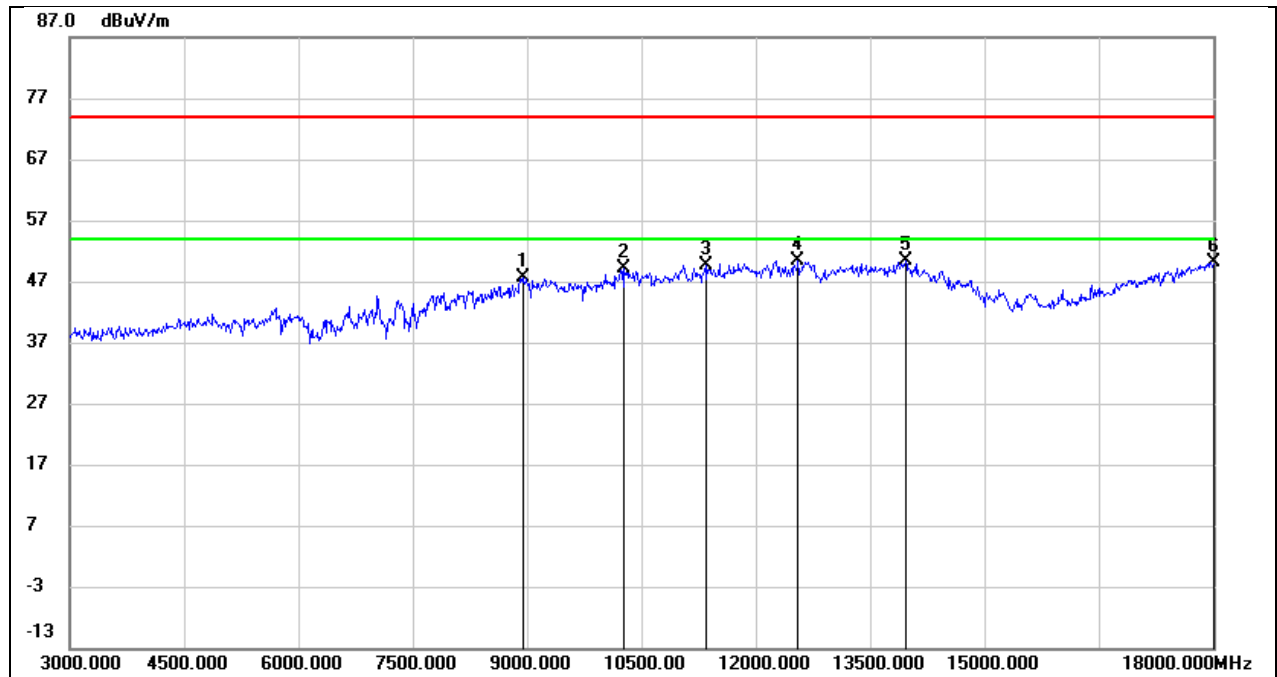
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7035.000	36.75	7.28	44.03	74.00	-29.97	peak
2	8235.000	37.72	8.70	46.42	74.00	-27.58	peak
3	9075.000	36.76	10.74	47.50	74.00	-26.50	peak
4	11400.000	32.96	16.54	49.50	74.00	-24.50	peak
5	12660.000	31.70	18.49	50.19	74.00	-23.81	peak
6	17955.000	23.24	26.66	49.90	74.00	-24.10	peak

Test Mode:	8DPSK	Frequency(MHz):	2441
Polarity:	Vertical	Test Voltage:	DC 7.2 V



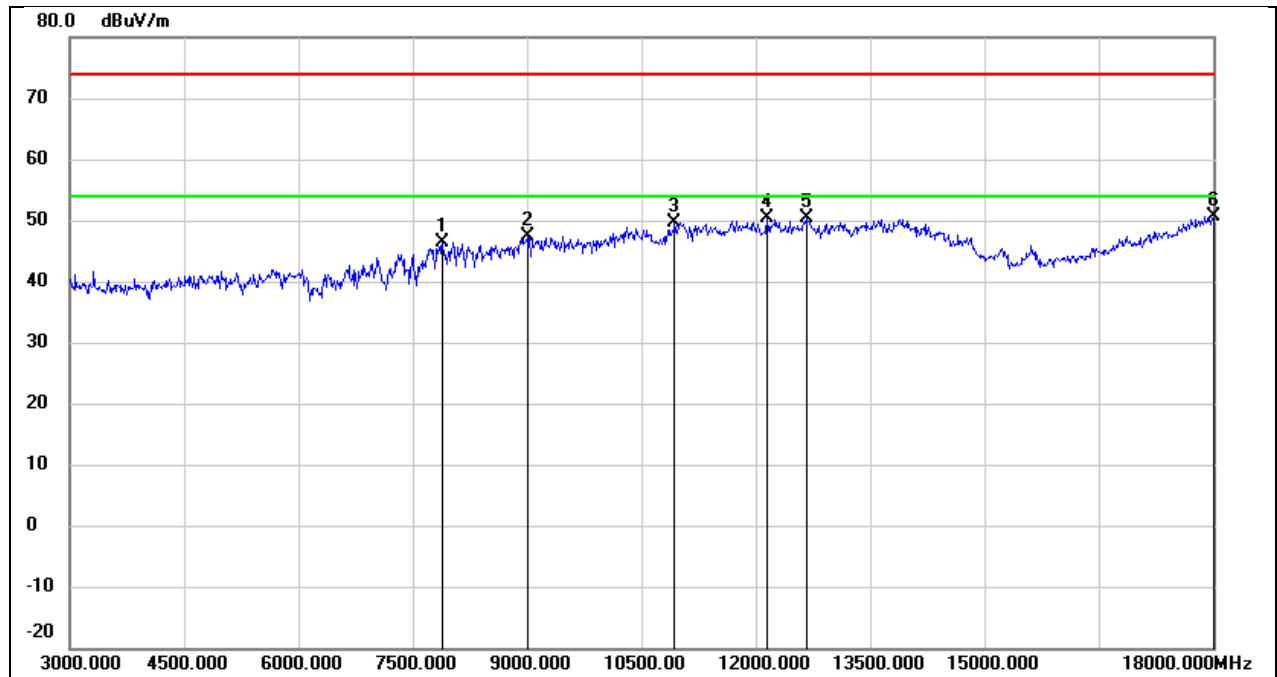
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7875.000	38.14	7.33	45.47	74.00	-28.53	peak
2	8985.000	36.52	10.97	47.49	74.00	-26.51	peak
3	10305.000	36.08	13.00	49.08	74.00	-24.92	peak
4	11400.000	33.61	16.54	50.15	74.00	-23.85	peak
5	12675.000	31.42	18.54	49.96	74.00	-24.04	peak
6	17970.000	23.48	26.72	50.20	74.00	-23.80	peak

Test Mode:	8DPSK	Frequency(MHz):	2480
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8955.000	36.95	10.56	47.51	74.00	-26.49	peak
2	10275.000	36.30	12.84	49.14	74.00	-24.86	peak
3	11340.000	33.45	16.19	49.64	74.00	-24.36	peak
4	12555.000	31.99	18.39	50.38	74.00	-23.62	peak
5	13965.000	27.67	22.74	50.41	74.00	-23.59	peak
6	18000.000	23.30	26.83	50.13	74.00	-23.87	peak

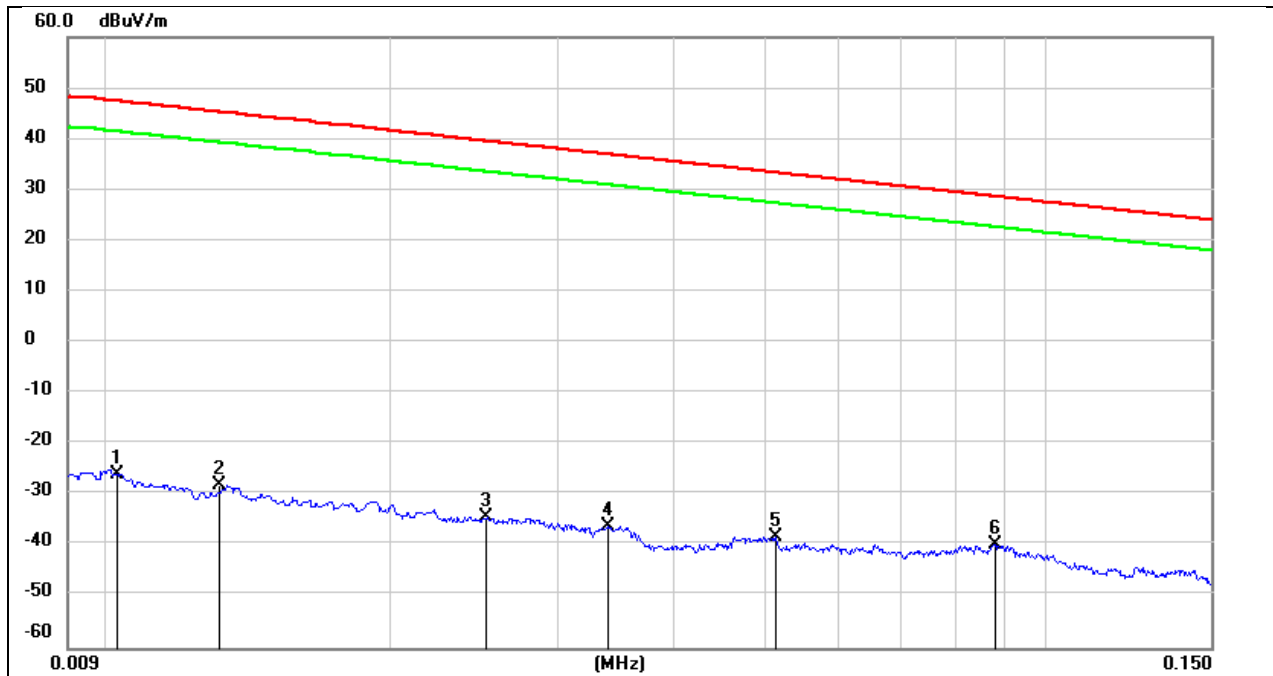
Test Mode:	8DPSK	Frequency(MHz):	2480
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7890.000	39.15	7.29	46.44	74.00	-27.56	peak
2	9000.000	36.19	11.17	47.36	74.00	-26.64	peak
3	10935.000	34.94	14.60	49.54	74.00	-24.46	peak
4	12150.000	32.06	18.37	50.43	74.00	-23.57	peak
5	12675.000	31.77	18.54	50.31	74.00	-23.69	peak
6	18000.000	23.86	26.83	50.69	74.00	-23.31	peak

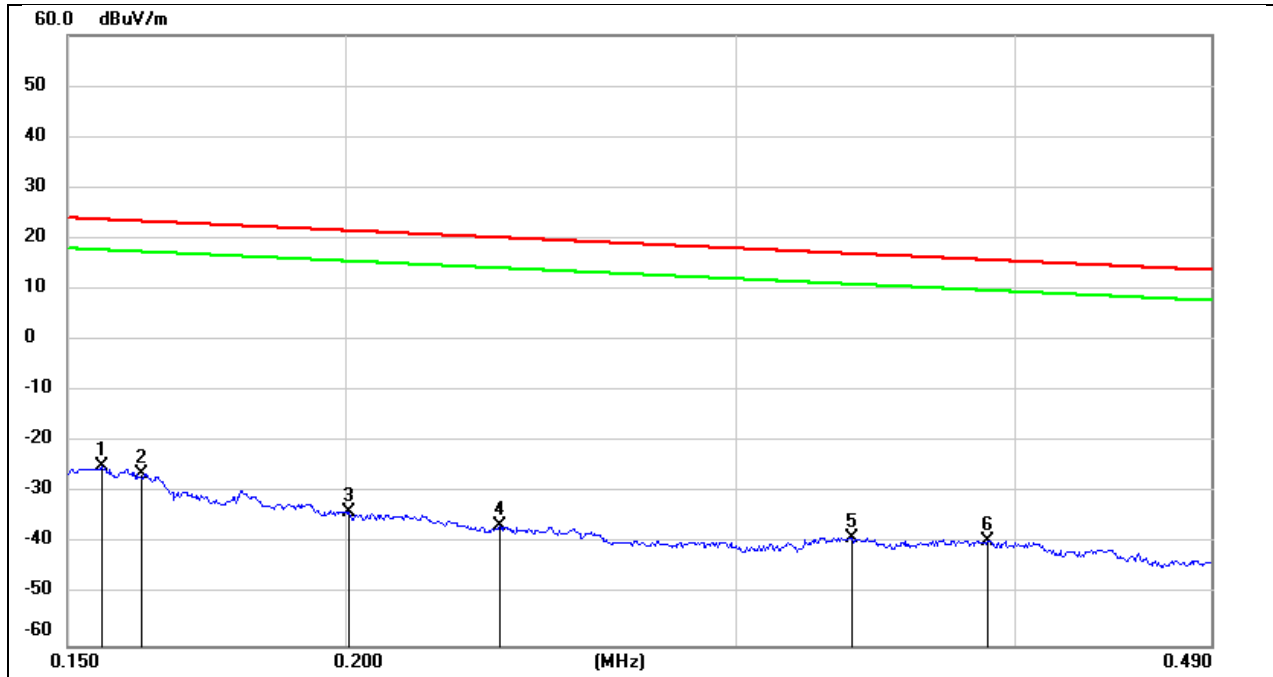
8.4. SPURIOUS EMISSIONS(9 KHZ~30 MHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



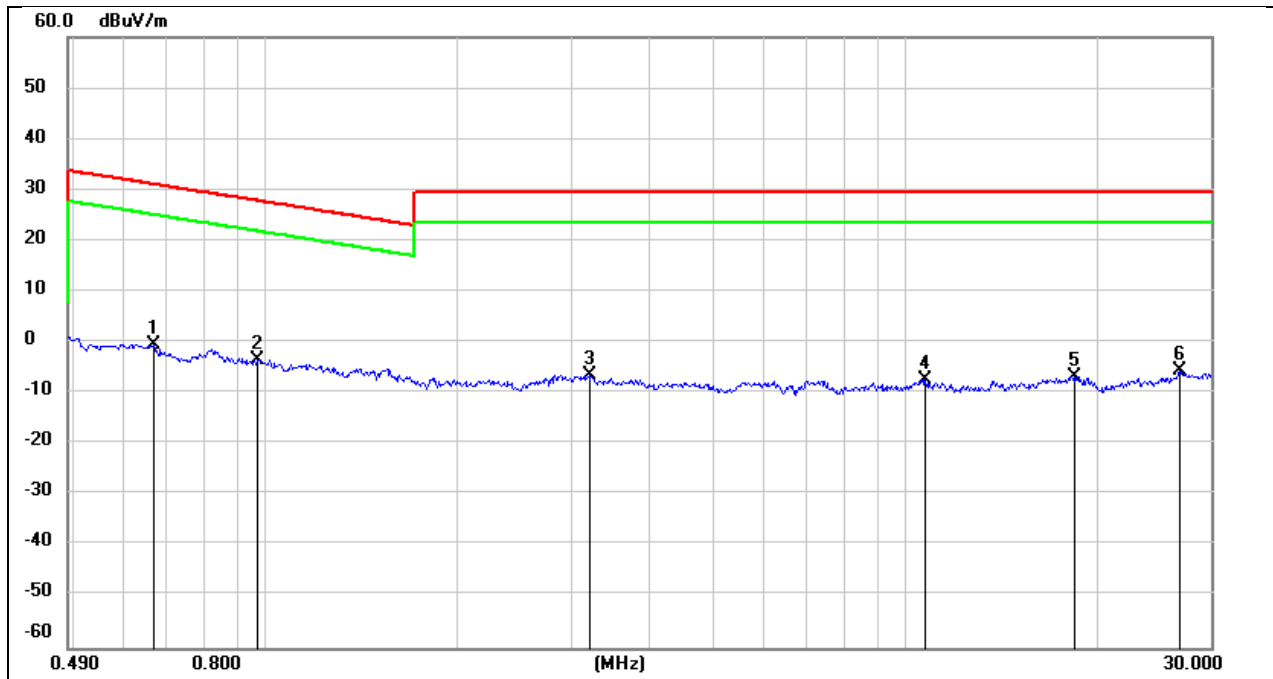
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.0102	75.55	-101.40	-25.85	47.43	-73.28	peak
2	0.0131	73.45	-101.38	-27.93	45.25	-73.18	peak
3	0.0252	66.88	-101.37	-34.49	39.57	-74.06	peak
4	0.0340	65.25	-101.41	-36.16	36.97	-73.13	peak
5	0.0514	63.18	-101.48	-38.30	33.38	-71.68	peak
6	0.0882	62.09	-101.70	-39.61	28.69	-68.30	peak

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.1554	76.77	-101.65	-24.88	23.77	-48.65	peak
2	0.1621	75.42	-101.65	-26.23	23.41	-49.64	peak
3	0.2006	67.92	-101.72	-33.80	21.55	-55.35	peak
4	0.2346	65.35	-101.77	-36.42	20.19	-56.61	peak
5	0.3379	63.19	-101.90	-38.71	17.03	-55.74	peak
6	0.3890	62.46	-101.95	-39.49	15.80	-55.29	peak

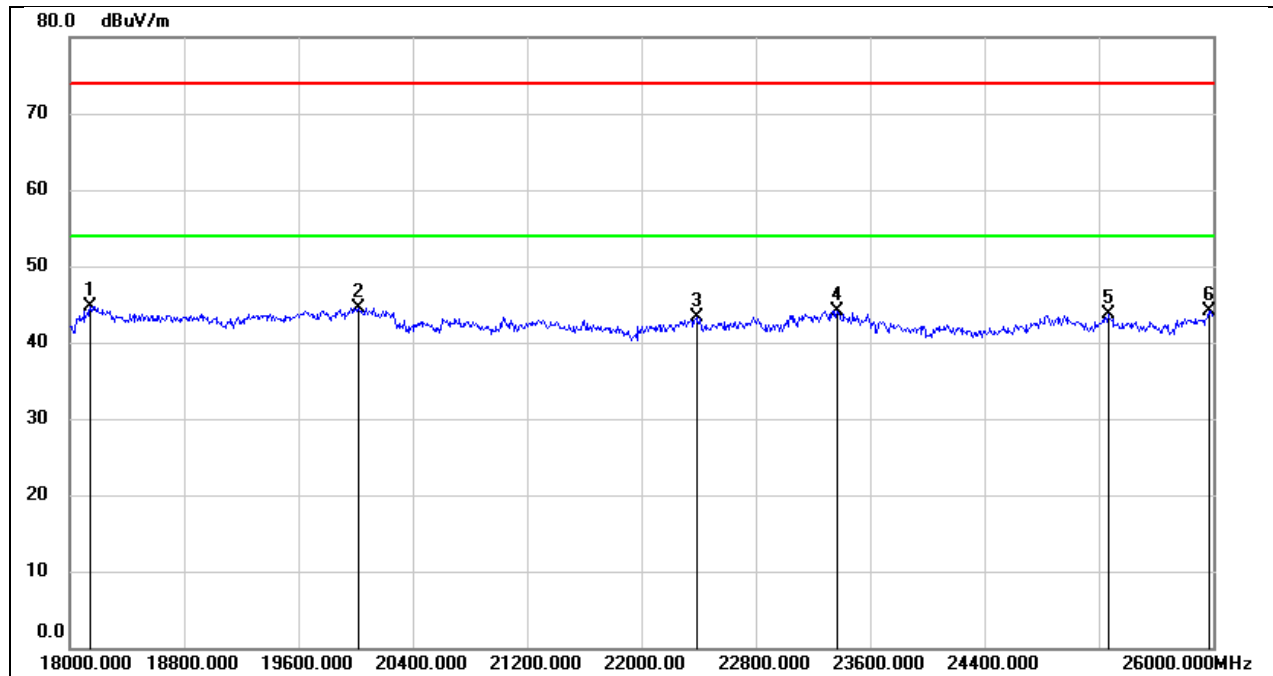
Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.6671	61.75	-62.10	-0.35	31.12	-31.47	peak
2	0.9700	58.80	-62.25	-3.45	27.87	-31.32	peak
3	3.2048	55.02	-61.53	-6.51	29.54	-36.05	peak
4	10.7299	53.48	-60.83	-7.35	29.54	-36.89	peak
5	18.4314	54.29	-60.89	-6.60	29.54	-36.14	peak
6	26.8424	54.72	-60.27	-5.55	29.54	-35.09	peak

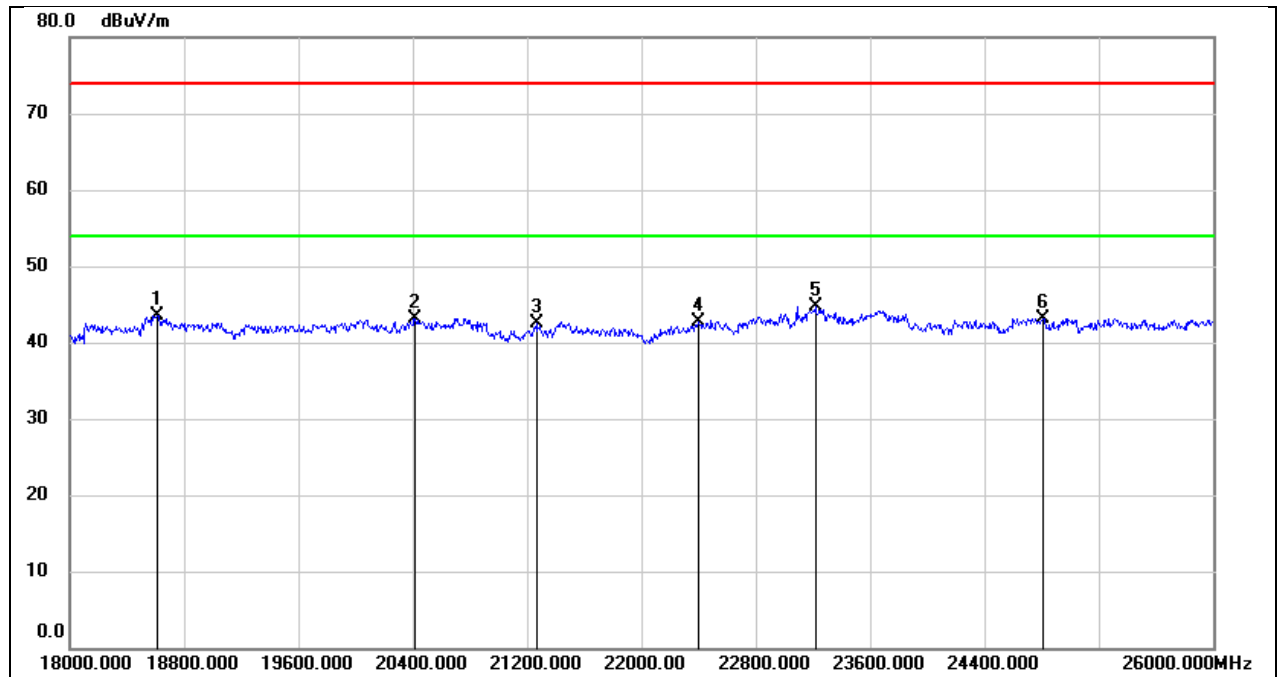
8.5. SPURIOUS EMISSIONS(18 GHZ~26 GHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18144.000	50.27	-5.48	44.79	74.00	-29.21	peak
2	20016.000	50.06	-5.47	44.59	74.00	-29.41	peak
3	22384.000	47.44	-4.04	43.40	74.00	-30.60	peak
4	23368.000	47.45	-3.26	44.19	74.00	-29.81	peak
5	25264.000	45.37	-1.67	43.70	74.00	-30.30	peak
6	25968.000	45.13	-1.00	44.13	74.00	-29.87	peak

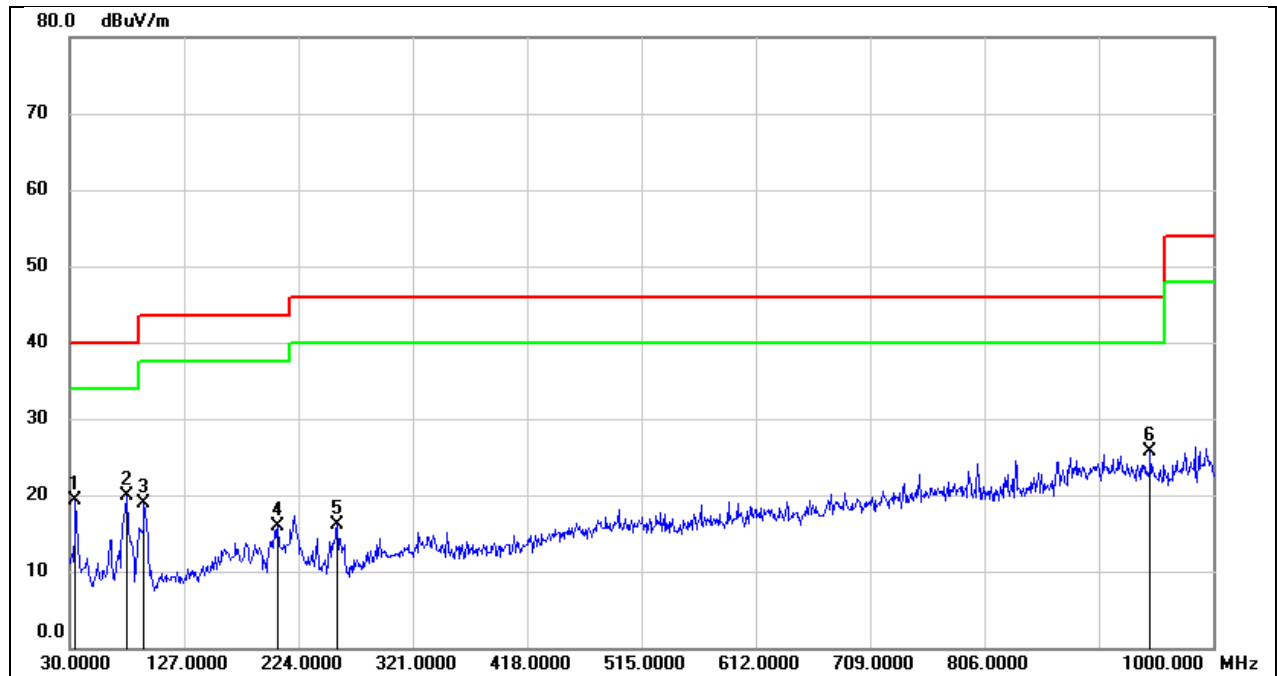
Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18616.000	48.89	-5.34	43.55	74.00	-30.45	peak
2	20416.000	48.63	-5.45	43.18	74.00	-30.82	peak
3	21264.000	47.35	-4.76	42.59	74.00	-31.41	peak
4	22400.000	46.68	-4.02	42.66	74.00	-31.34	peak
5	23216.000	48.01	-3.38	44.63	74.00	-29.37	peak
6	24808.000	45.43	-2.27	43.16	74.00	-30.84	peak

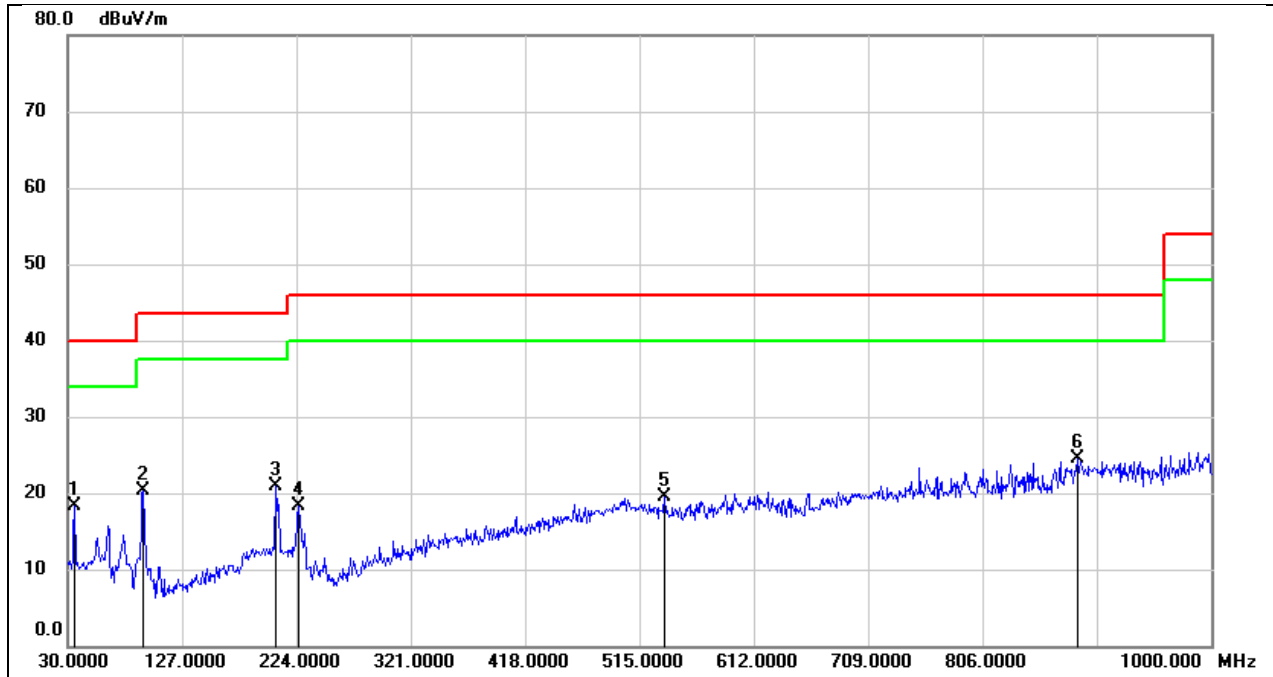
8.6. SPURIOUS EMISSIONS(30 MHZ~1 GHZ)

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Horizontal	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	34.8500	33.35	-14.14	19.21	40.00	-20.79	QP
2	78.5000	36.11	-16.19	19.92	40.00	-20.08	QP
3	93.0500	35.83	-17.01	18.82	43.50	-24.68	QP
4	206.5399	28.40	-12.41	15.99	43.50	-27.51	QP
5	256.9800	30.45	-14.36	16.09	46.00	-29.91	QP
6	946.6500	27.45	-1.79	25.66	46.00	-20.34	QP

Test Mode:	GFSK	Frequency(MHz):	2402
Polarity:	Vertical	Test Voltage:	DC 7.2 V



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	35.8200	32.66	-14.30	18.36	40.00	-21.64	QP
2	94.0199	37.28	-16.95	20.33	43.50	-23.17	QP
3	206.5399	33.41	-12.41	21.00	43.50	-22.50	QP
4	225.9400	31.58	-13.34	18.24	46.00	-27.76	QP
5	536.3400	27.16	-7.60	19.56	46.00	-26.44	QP
6	886.5100	26.15	-1.69	24.46	46.00	-21.54	QP

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

10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

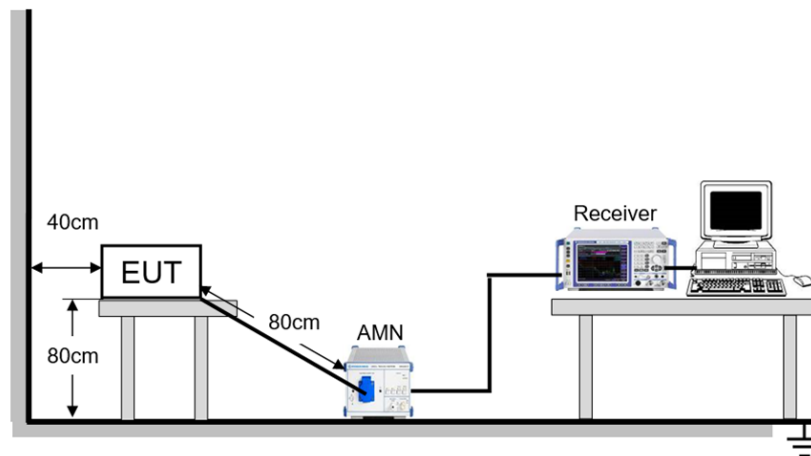
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



TEST ENVIRONMENT

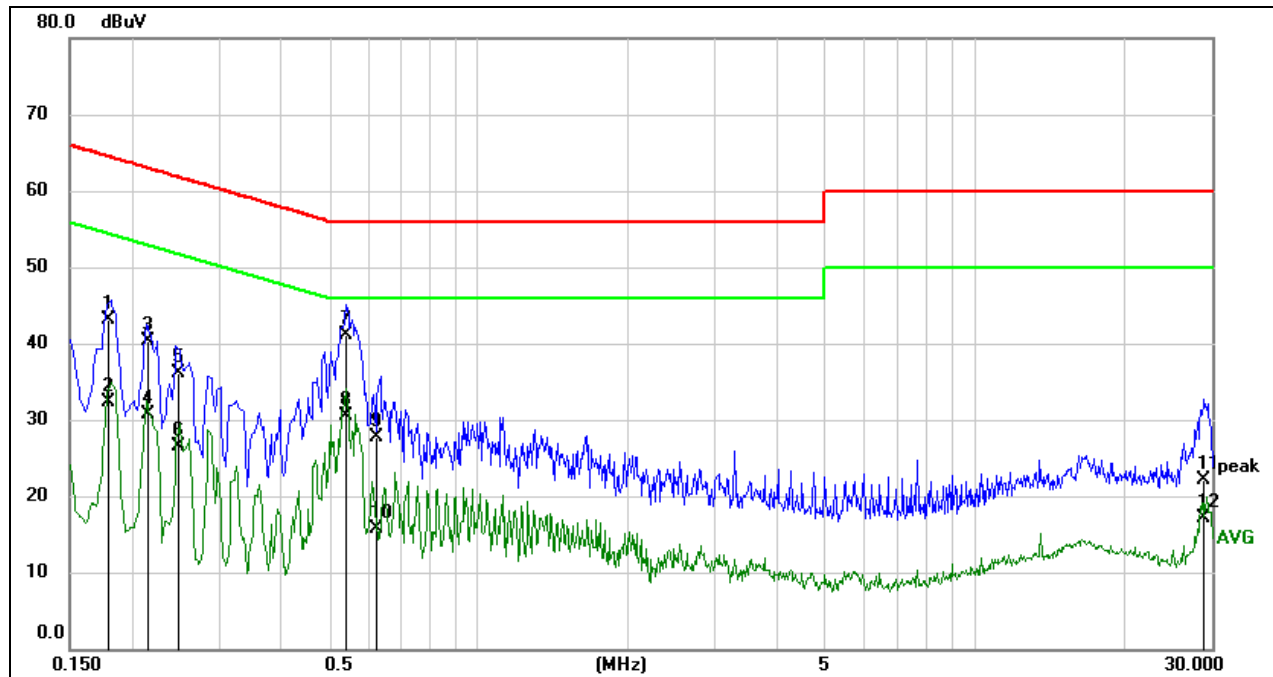
Temperature	25.3°C	Relative Humidity	61.3%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

TEST DATE / ENGINEER

Test Date	June 22, 2024	Test By	Denny Huang
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TEST RESULTS

Test Mode:	GFSK	Frequency(MHz):	2402
Line:	Neutral		



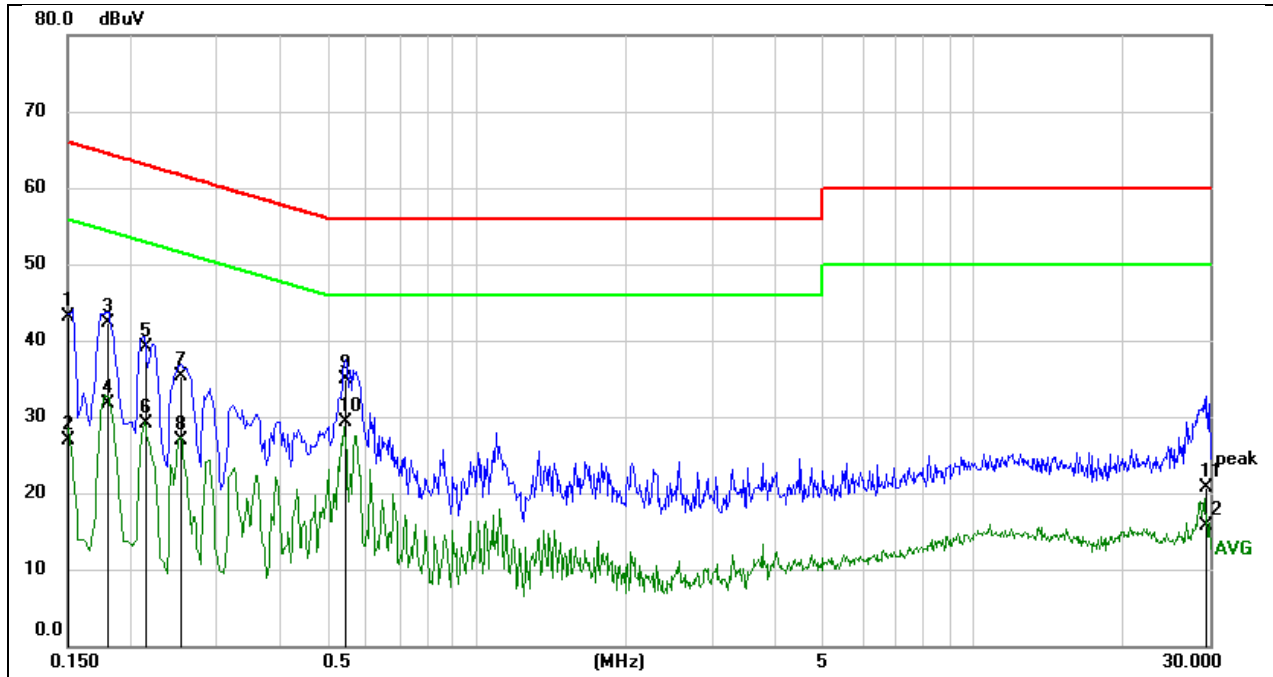
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1791	32.77	10.28	43.05	64.53	-21.48	QP
2	0.1791	22.07	10.28	32.35	54.53	-22.18	AVG
3	0.2160	30.15	10.24	40.39	62.97	-22.58	QP
4	0.2160	20.40	10.24	30.64	52.97	-22.33	AVG
5	0.2482	25.96	10.24	36.20	61.82	-25.62	QP
6	0.2482	16.27	10.24	26.51	51.82	-25.31	AVG
7	0.5454	30.82	10.24	41.06	56.00	-14.94	QP
8	0.5454	20.17	10.24	30.41	46.00	-15.59	AVG
9	0.6237	17.56	10.24	27.80	56.00	-28.20	QP
10	0.6237	5.42	10.24	15.66	46.00	-30.34	AVG
11	29.1090	11.20	10.84	22.04	60.00	-37.96	QP
12	29.1090	6.36	10.84	17.20	50.00	-32.80	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

Test Mode:	GFSK	Frequency(MHz):	2402
Line:	Line		



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1507	32.86	10.24	43.10	65.96	-22.86	QP
2	0.1507	16.62	10.24	26.86	55.96	-29.10	AVG
3	0.1798	32.21	10.18	42.39	64.49	-22.10	QP
4	0.1798	21.59	10.18	31.77	54.49	-22.72	AVG
5	0.2160	28.96	10.13	39.09	62.97	-23.88	QP
6	0.2160	19.00	10.13	29.13	52.97	-23.84	AVG
7	0.2524	25.18	10.12	35.30	61.68	-26.38	QP
8	0.2524	16.72	10.12	26.84	51.68	-24.84	AVG
9	0.5421	24.85	10.04	34.89	56.00	-21.11	QP
10	0.5421	19.18	10.04	29.22	46.00	-16.78	AVG
11	29.4792	9.58	11.13	20.71	60.00	-39.29	QP
12	29.4792	4.66	11.13	15.79	50.00	-34.21	AVG

Note:

1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

11. TEST DATA

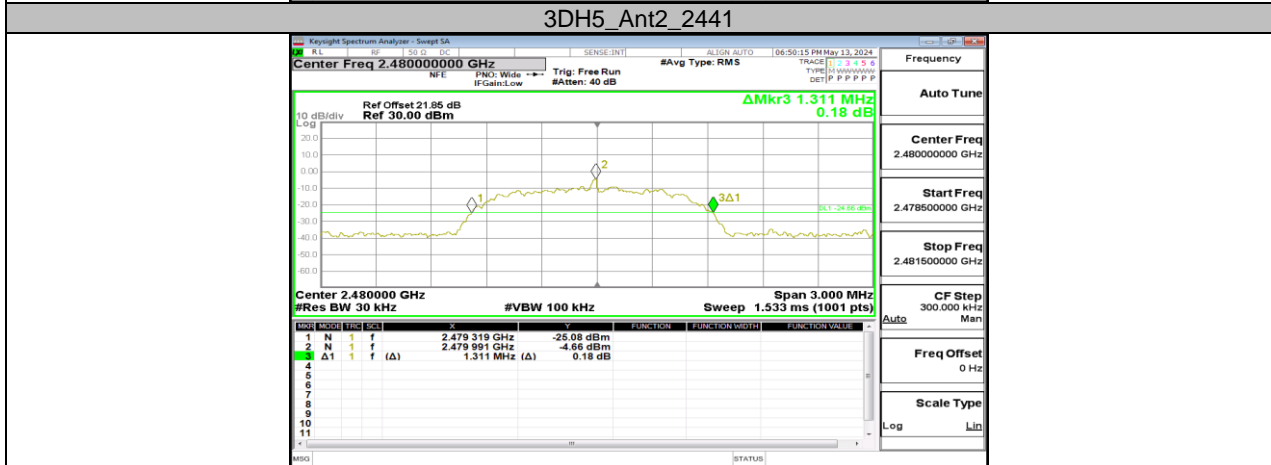
11.1. APPENDIX A: 20DB EMISSION BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant2	2402	0.924	2401.511	2402.435
		2441	0.948	2440.502	2441.450
		2480	0.945	2479.505	2480.450
3DH5	Ant2	2402	1.287	2401.322	2402.609
		2441	1.308	2440.319	2441.627
		2480	1.311	2479.319	2480.630

11.1.2. Test Graphs





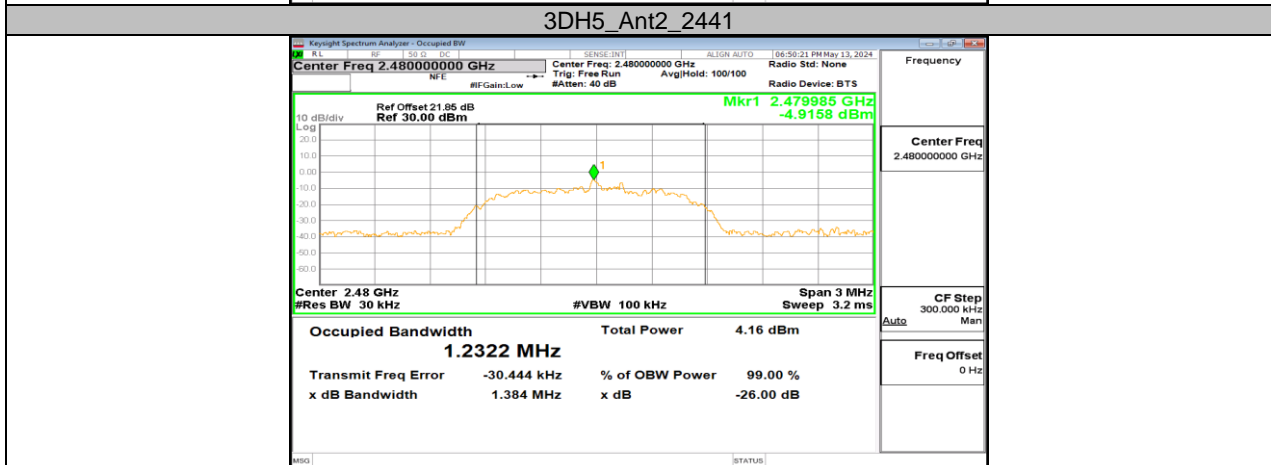
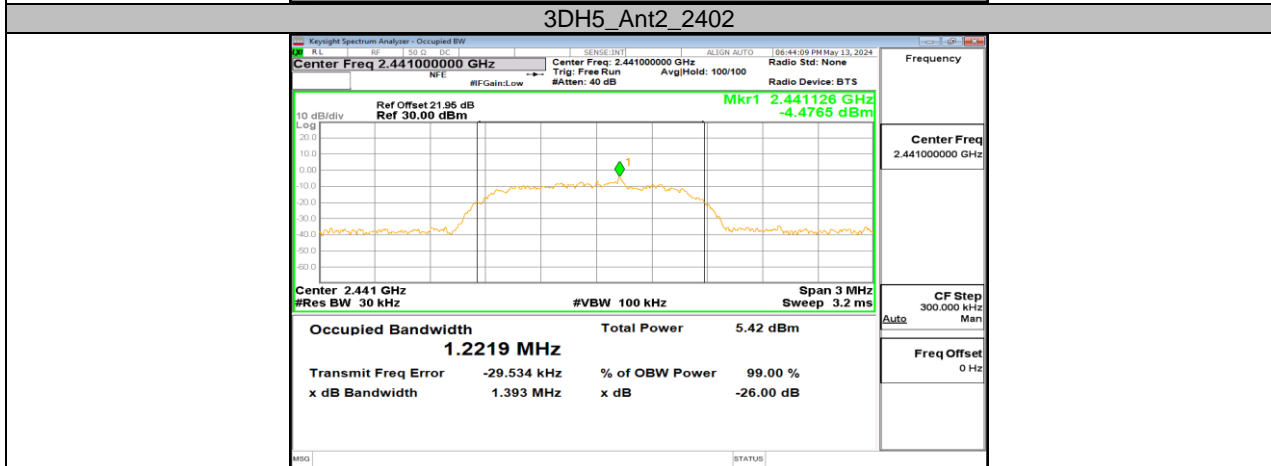
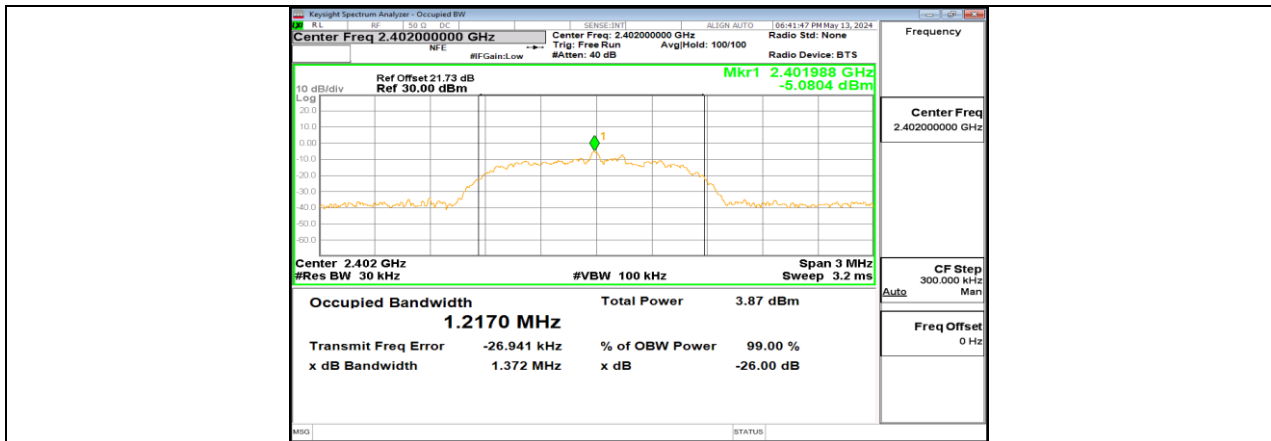
11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant2	2402	0.88965	2401.5280	2402.4177
		2441	0.87663	2440.5310	2441.4076
		2480	0.89544	2479.5223	2480.4177
3DH5	Ant2	2402	1.2170	2401.3646	2402.5816
		2441	1.2219	2440.3595	2441.5814
		2480	1.2322	2479.3535	2480.5857

11.2.2. Test Graphs





11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

11.3.1. Test Result

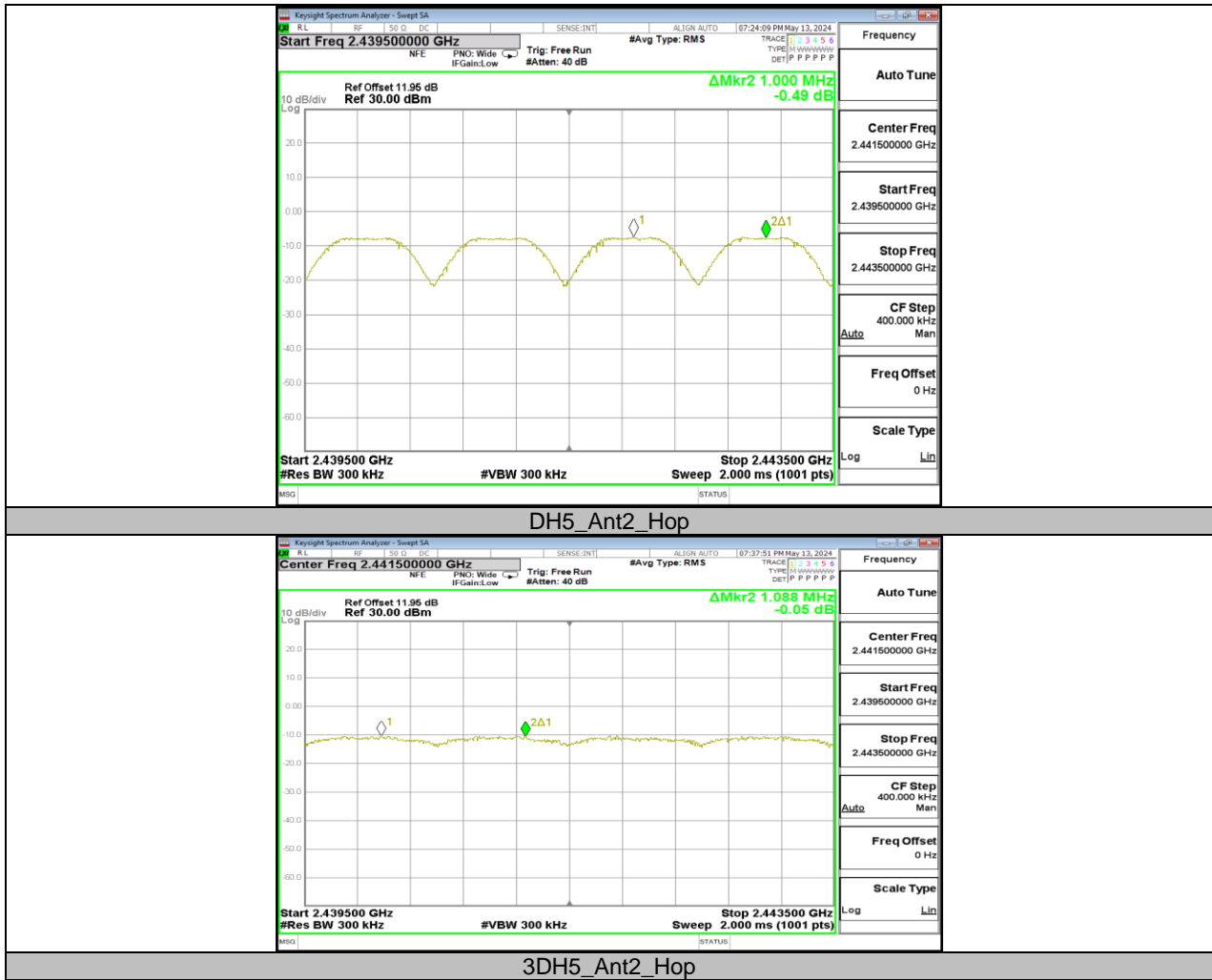
Test Mode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant2	2402	1.34	≤20.97	PASS
		2441	3.06	≤20.97	PASS
		2480	2.53	≤20.97	PASS
3DH5	Ant2	2402	0.65	≤20.97	PASS
		2441	2.41	≤20.97	PASS
		2480	0.87	≤20.97	PASS

11.4. APPENDIX D: CARRIER FREQUENCY SEPARATION

11.4.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant2	Hop	1.000	≥ 0.948	PASS
3DH5	Ant2	Hop	1.088	≥ 0.874	PASS

11.4.2. Test Graphs

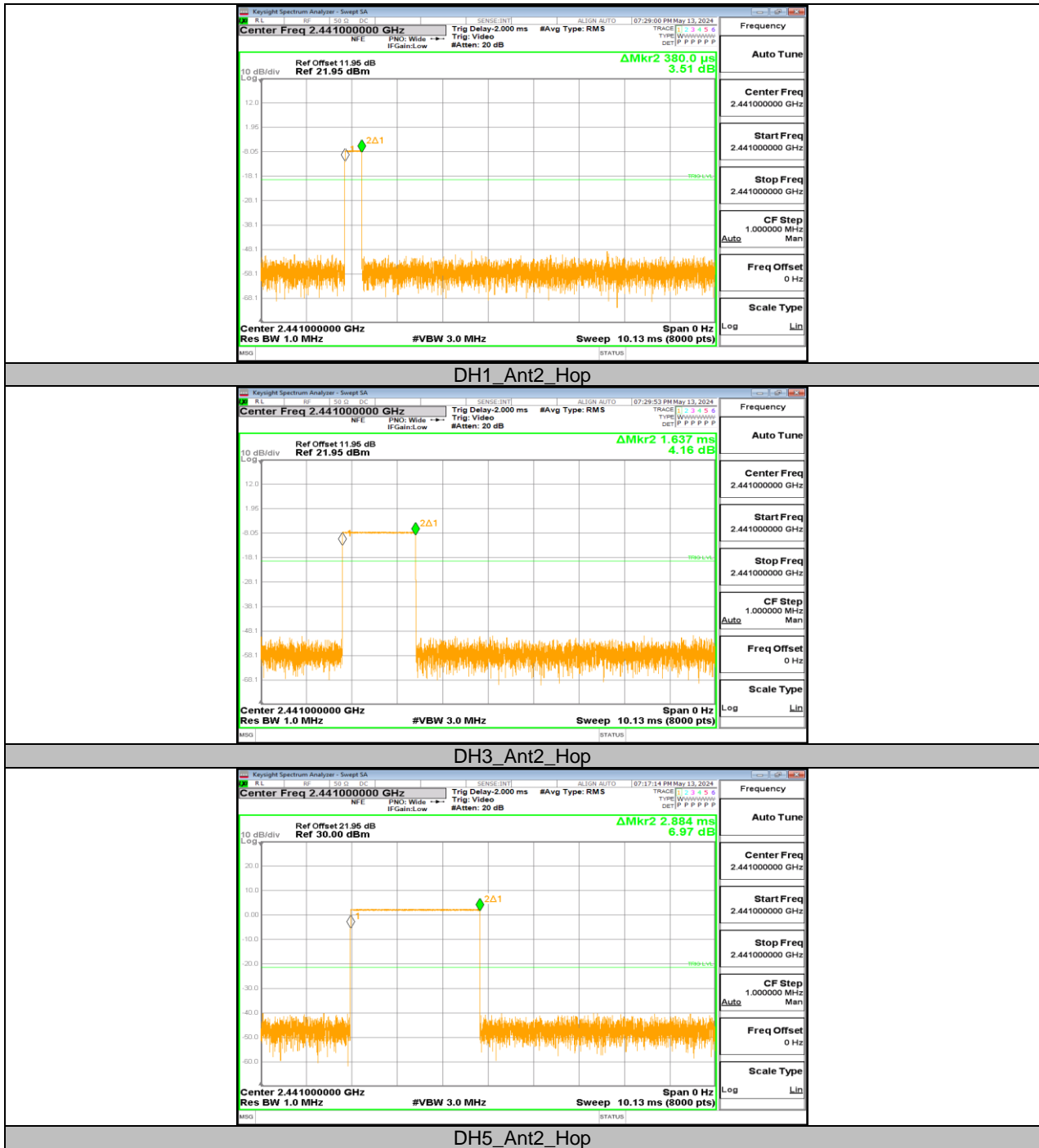


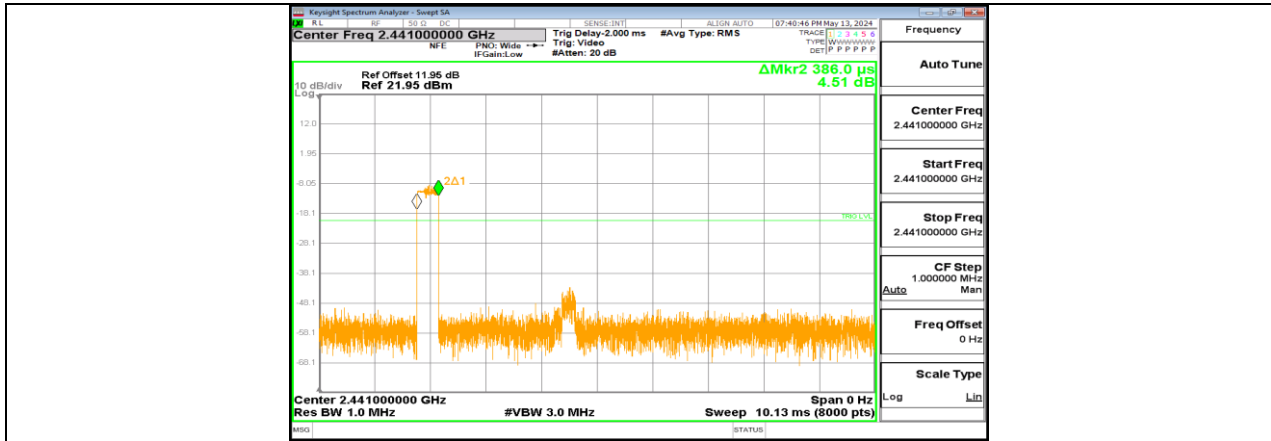
11.5. APPENDIX E: TIME OF OCCUPANCY
11.5.1. Test Result

FHSS Mode						
Test Mode	Antenna	Channel	BurstWidth [ms]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.38	0.122	≤0.4	PASS
DH3	Ant2	Hop	1.637	0.262	≤0.4	PASS
DH5	Ant2	Hop	2.884	0.308	≤0.4	PASS
3DH1	Ant2	Hop	0.386	0.124	≤0.4	PASS
3DH3	Ant2	Hop	1.637	0.262	≤0.4	PASS
3DH5	Ant2	Hop	2.888	0.308	≤0.4	PASS

AFHSS Mode						
Test Mode	Antenna	Channel	BurstWidth [ms]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.38	0.061	≤0.4	PASS
DH3	Ant2	Hop	1.637	0.131	≤0.4	PASS
DH5	Ant2	Hop	2.884	0.154	≤0.4	PASS
3DH1	Ant2	Hop	0.386	0.062	≤0.4	PASS
3DH3	Ant2	Hop	1.637	0.131	≤0.4	PASS
3DH5	Ant2	Hop	2.888	0.154	≤0.4	PASS

11.5.2. Test Graphs

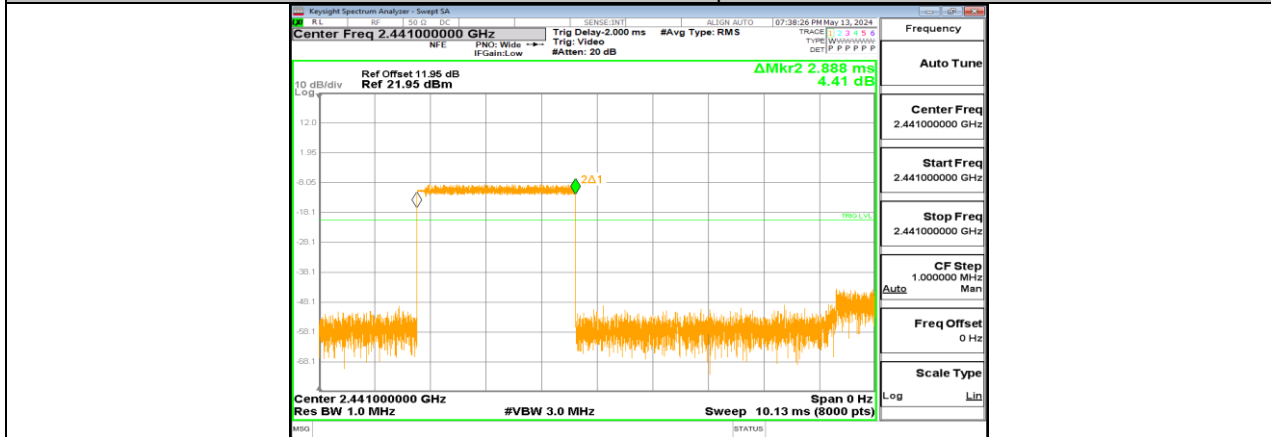




3DH1_Ant2_Hop



3DH3_Ant2_Hop



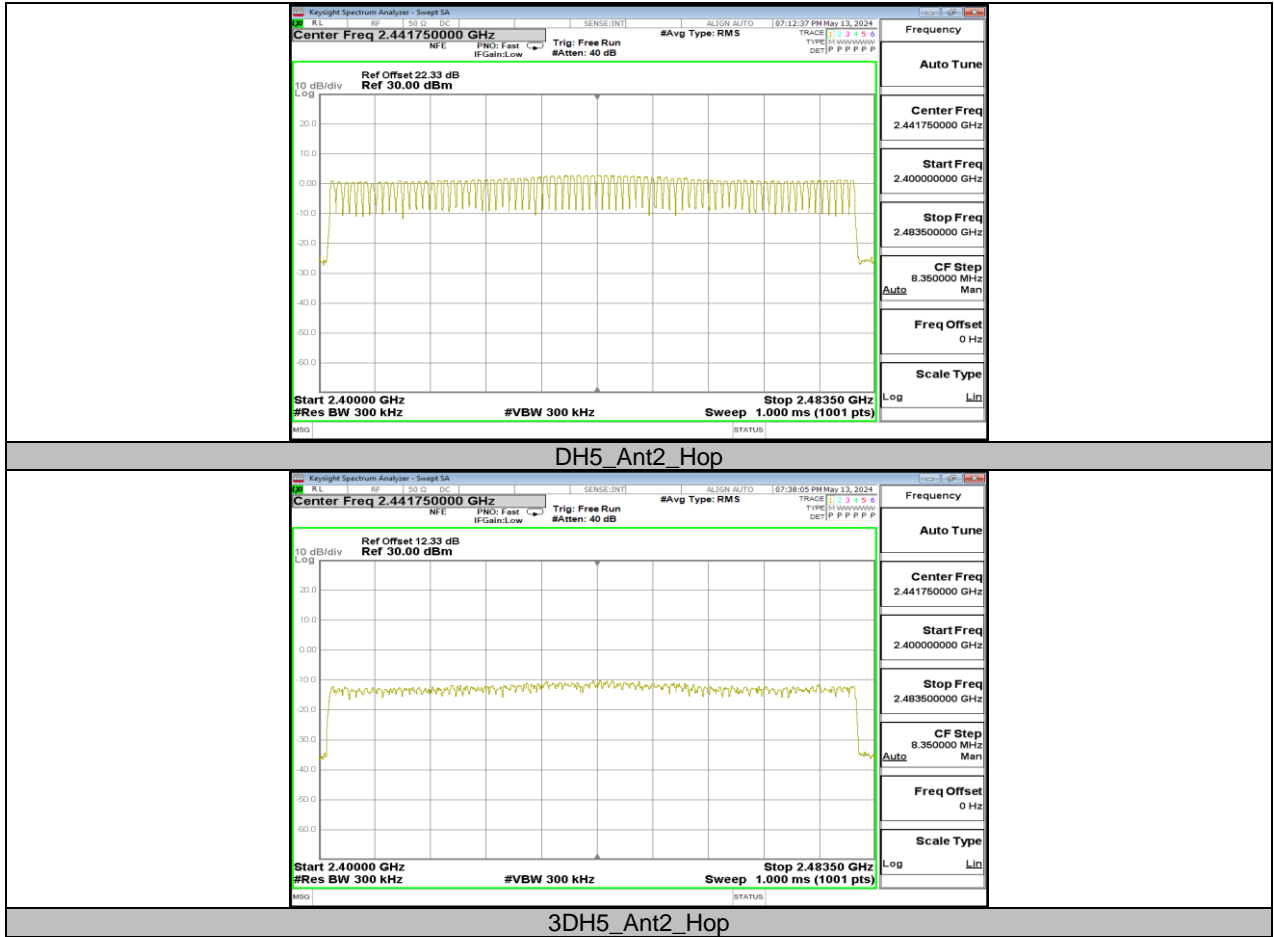
3DH5_Ant2_Hop

11.6. APPENDIX F: NUMBER OF HOPPING CHANNELS

11.6.1. Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant2	Hop	79	≥ 15	PASS
3DH5	Ant2	Hop	79	≥ 15	PASS

11.6.2. Test Graphs



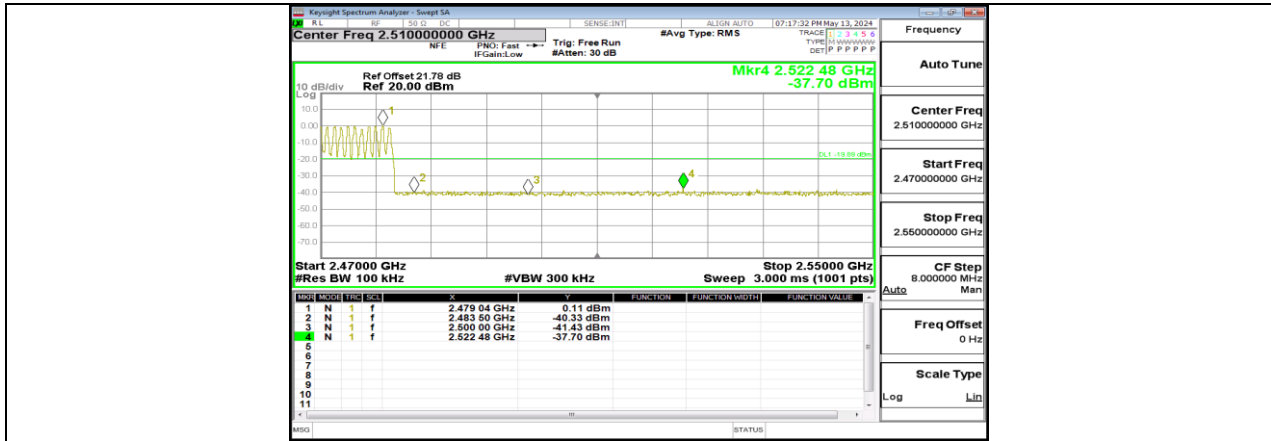
11.7. APPENDIX G: BAND EDGE MEASUREMENTS

11.7.1. Test Result

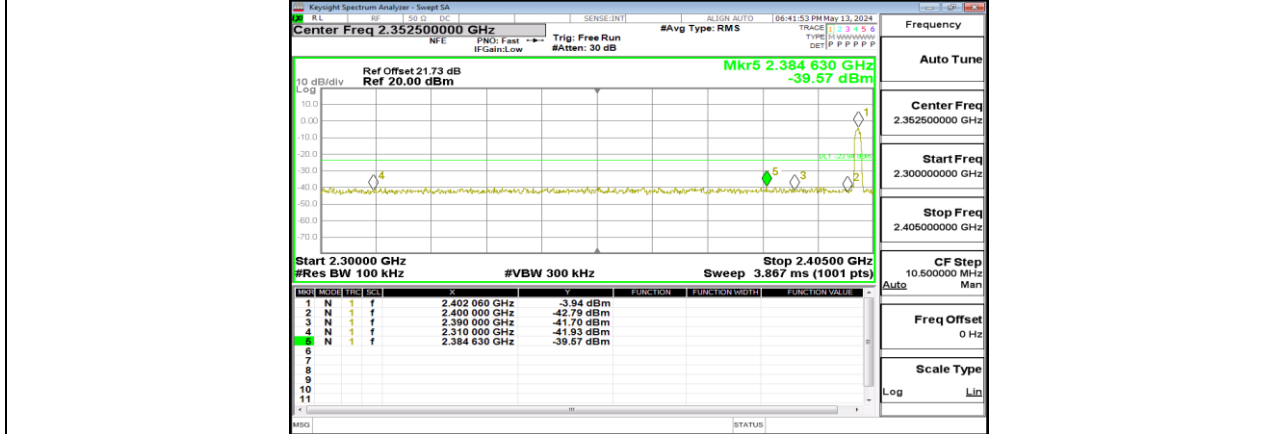
Test Mode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant2	Low	2402	-0.11	-39.05	≤-20.11	PASS
		High	2480	-0.24	-38.84	≤-20.24	PASS
		Low	Hop_2402	0.52	-37.82	≤-19.48	PASS
		High	Hop_2480	0.11	-37.7	≤-19.89	PASS
3DH5	Ant2	Low	2402	-3.94	-39.57	≤-23.94	PASS
		High	2480	-3.44	-39.01	≤-23.44	PASS
		Low	Hop_2402	-14.76	-47.67	≤-34.76	PASS
		High	Hop_2480	-13.21	-48.08	≤-33.21	PASS

11.7.2. Test Graphs

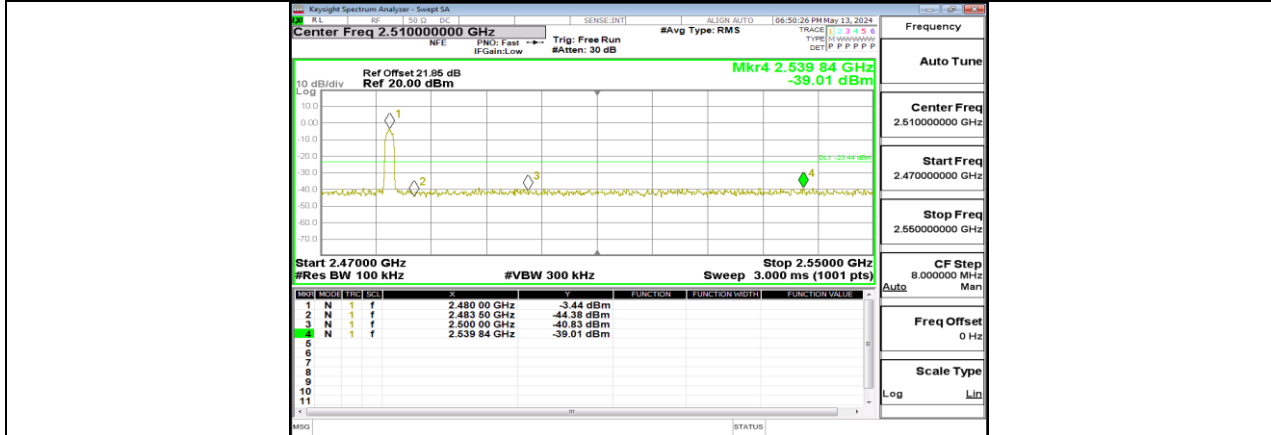




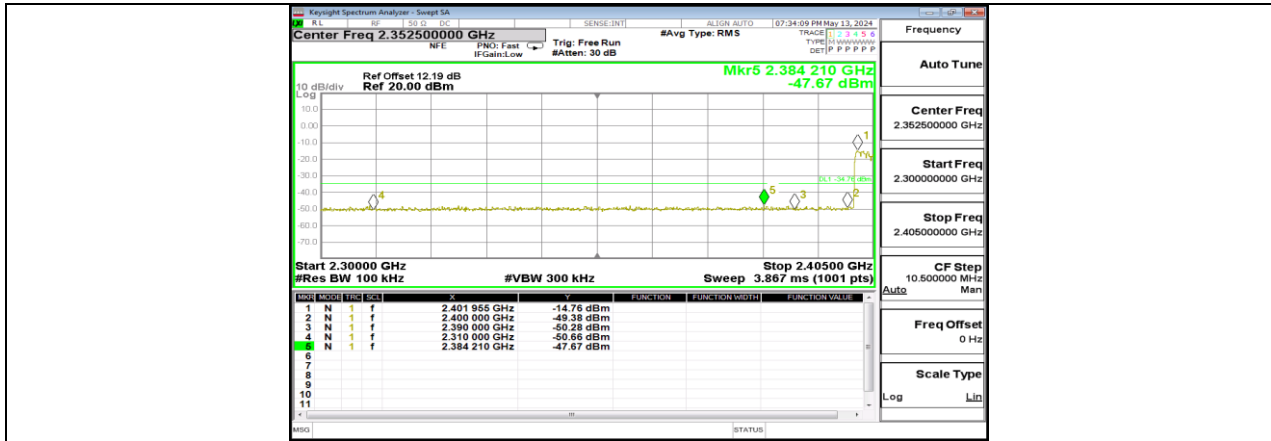
DH5_Ant2_High_Hop_2480



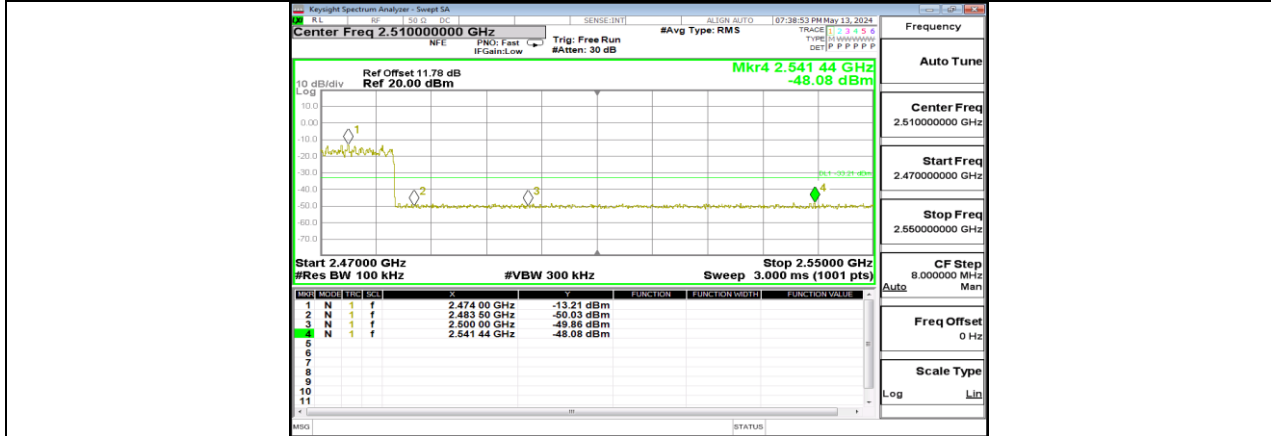
3DH5_Ant2_Low_2402



3DH5_Ant2_High_2480



3DH5_Ant2_Low_Hop_2402



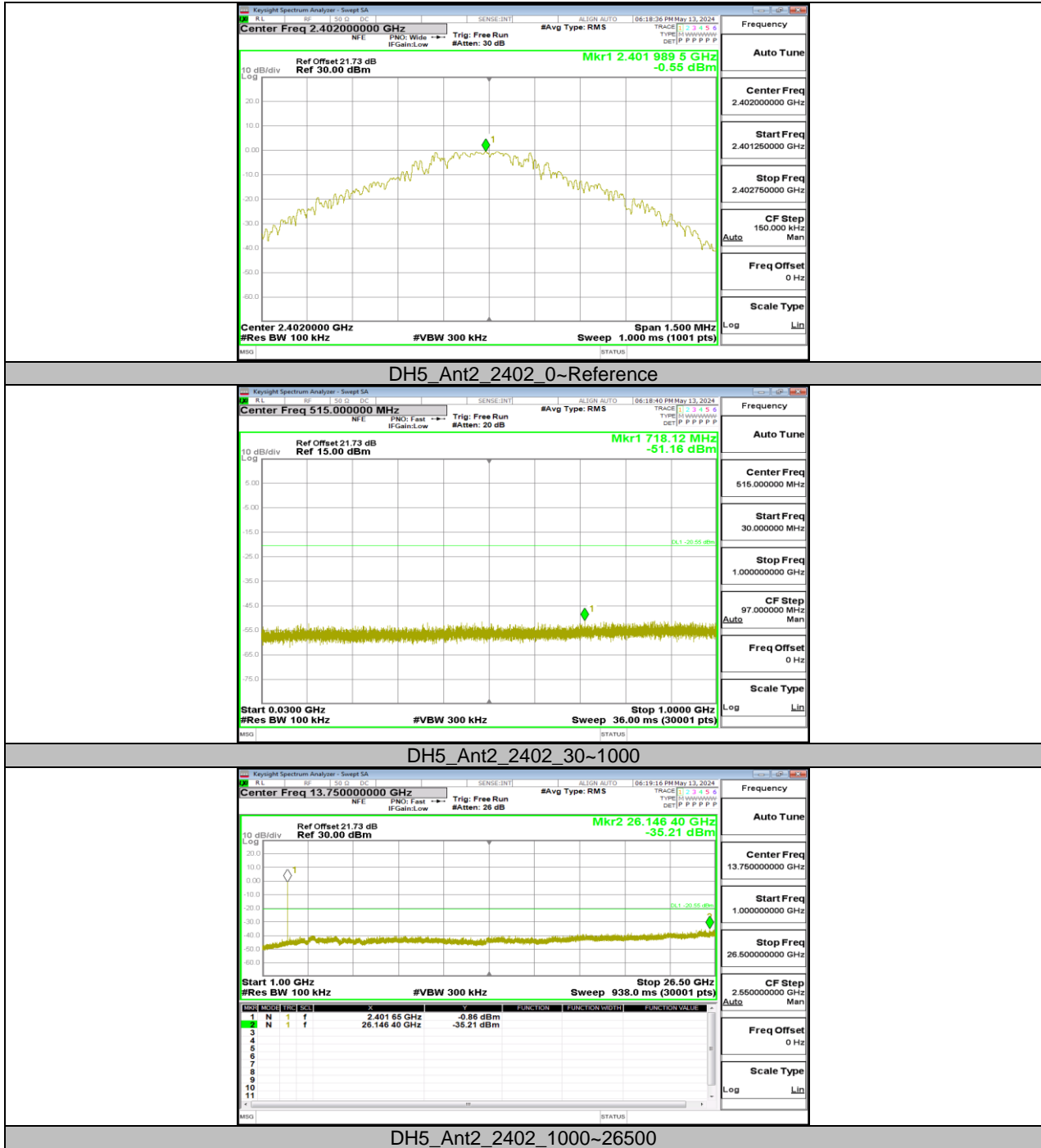
3DH5_Ant2_High_Hop_2480

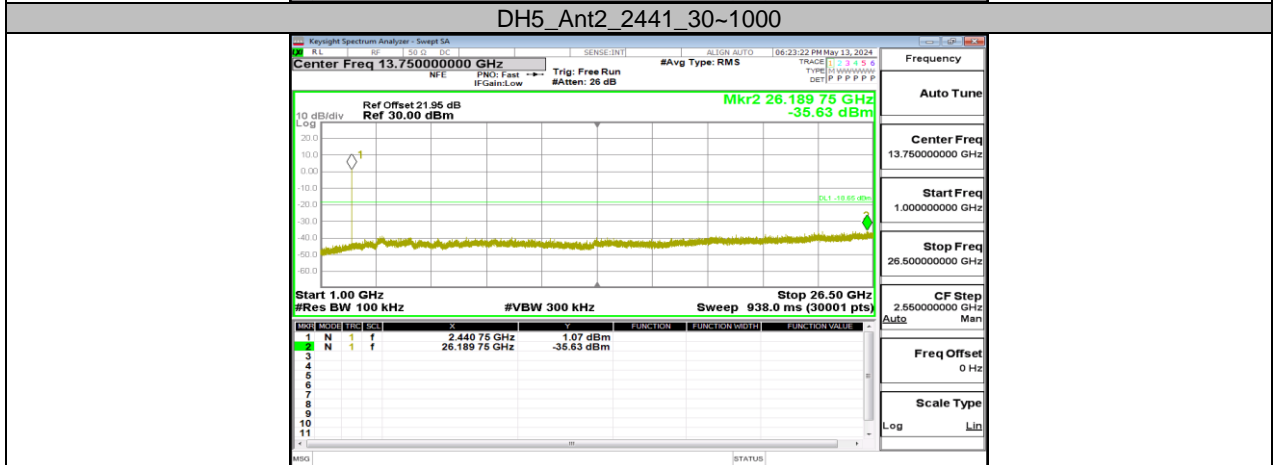
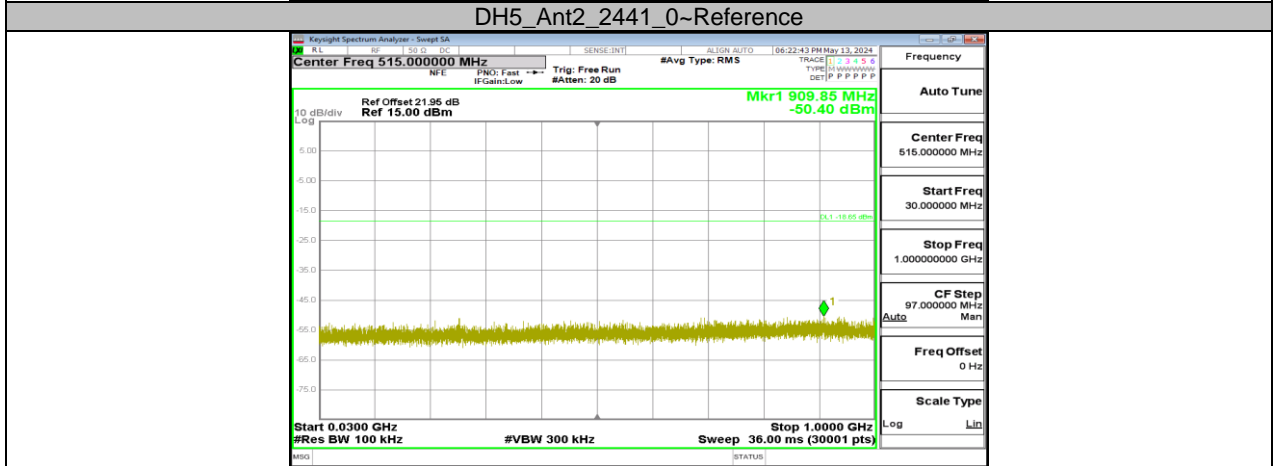
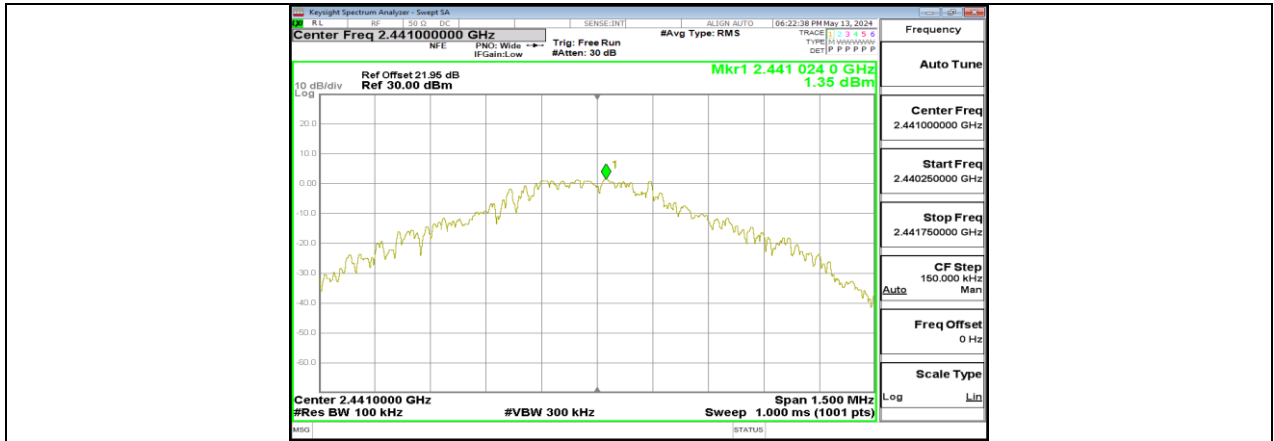
11.8. APPENDIX H: CONDUCTED SPURIOUS EMISSION

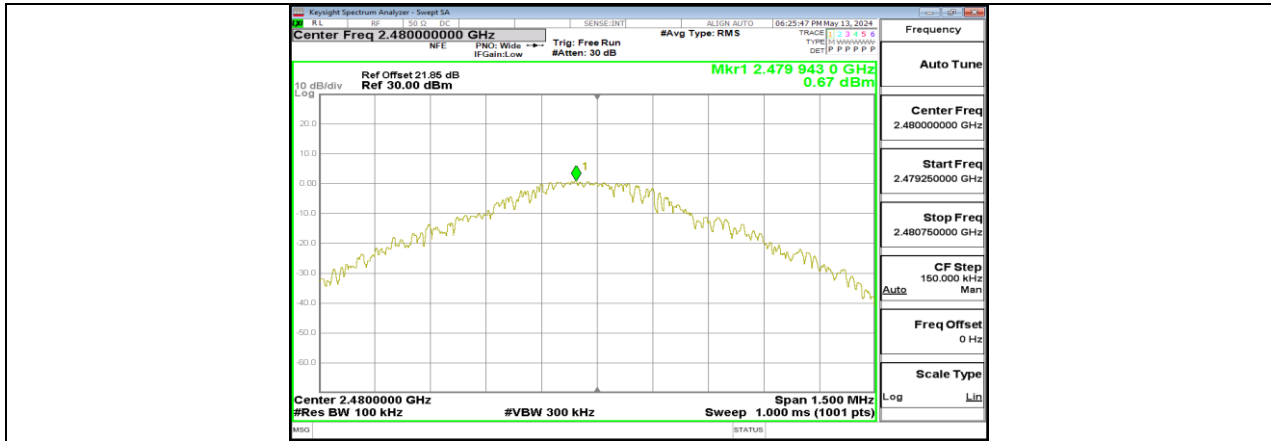
11.8.1. Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant2	2402	Reference	-0.55	---	PASS
			30~1000	-51.16	≤-20.55	PASS
			1000~26500	-35.21	≤-20.55	PASS
		2441	Reference	1.35	---	PASS
			30~1000	-50.4	≤-18.65	PASS
			1000~26500	-35.63	≤-18.65	PASS
		2480	Reference	0.67	---	PASS
			30~1000	-50.58	≤-19.33	PASS
			1000~26500	-35.11	≤-19.33	PASS
3DH5	Ant2	2402	Reference	-5.07	---	PASS
			30~1000	-50.97	≤-25.07	PASS
			1000~26500	-35.92	≤-25.07	PASS
		2441	Reference	-3.55	---	PASS
			30~1000	-50.83	≤-23.55	PASS
			1000~26500	-35.76	≤-23.55	PASS
		2480	Reference	-3.30	---	PASS
			30~1000	-50.28	≤-23.3	PASS
			1000~26500	-35.38	≤-23.3	PASS

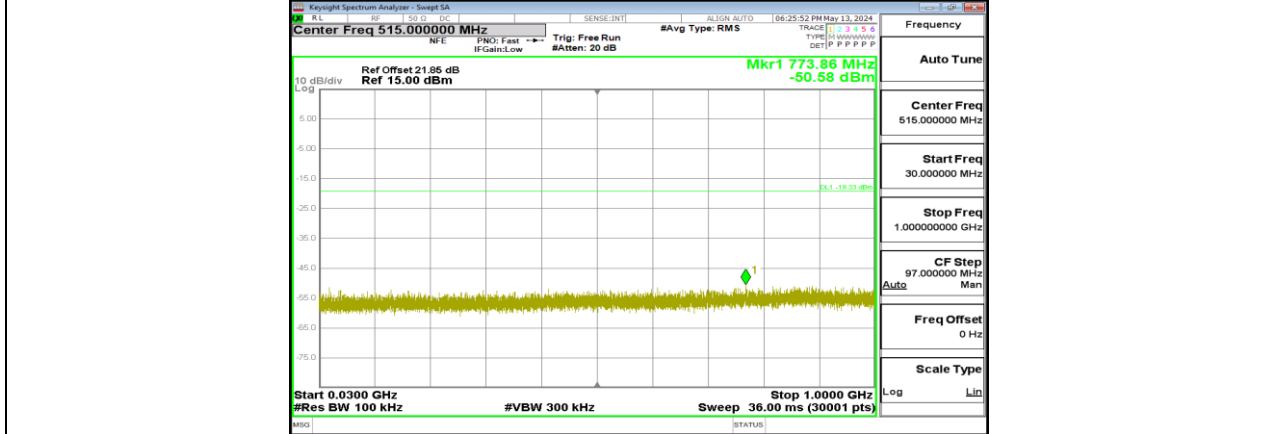
11.8.2. Test Graphs



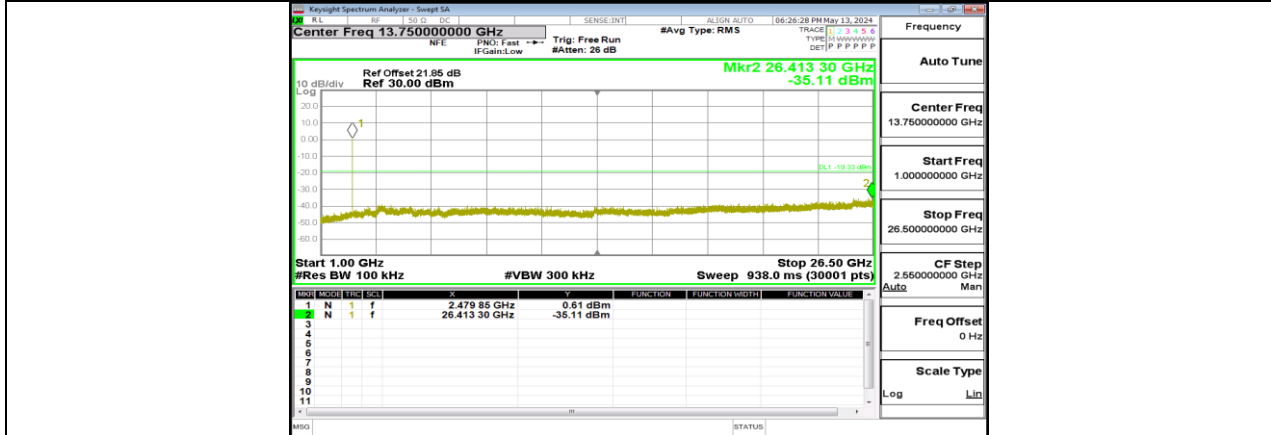




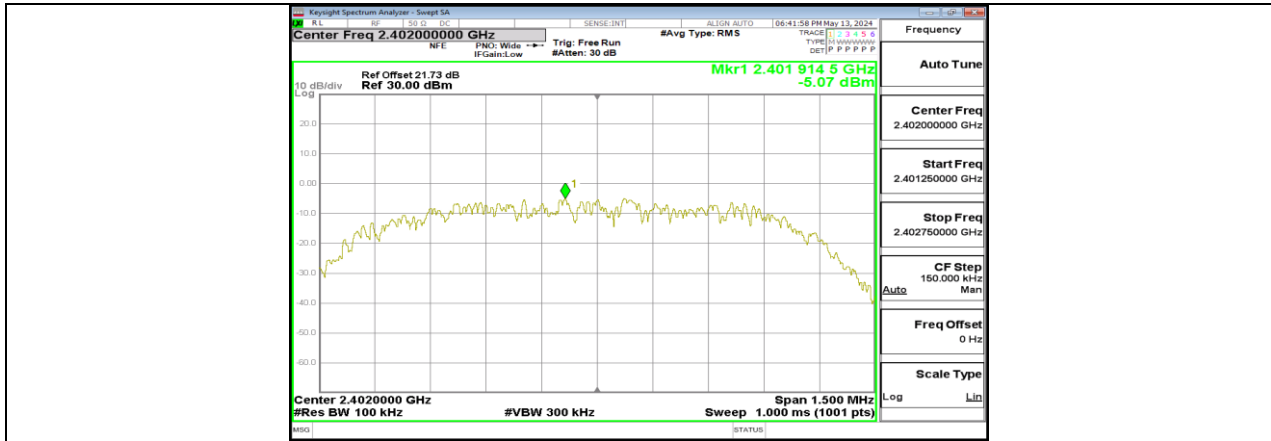
DH5_Ant2_2480_0-Reference



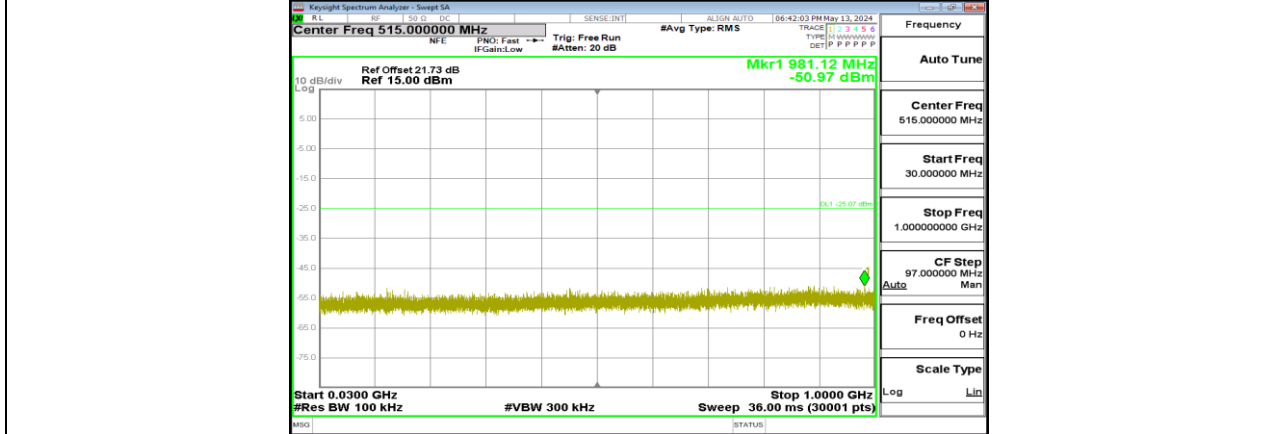
DH5_Ant2_2480_30-1000



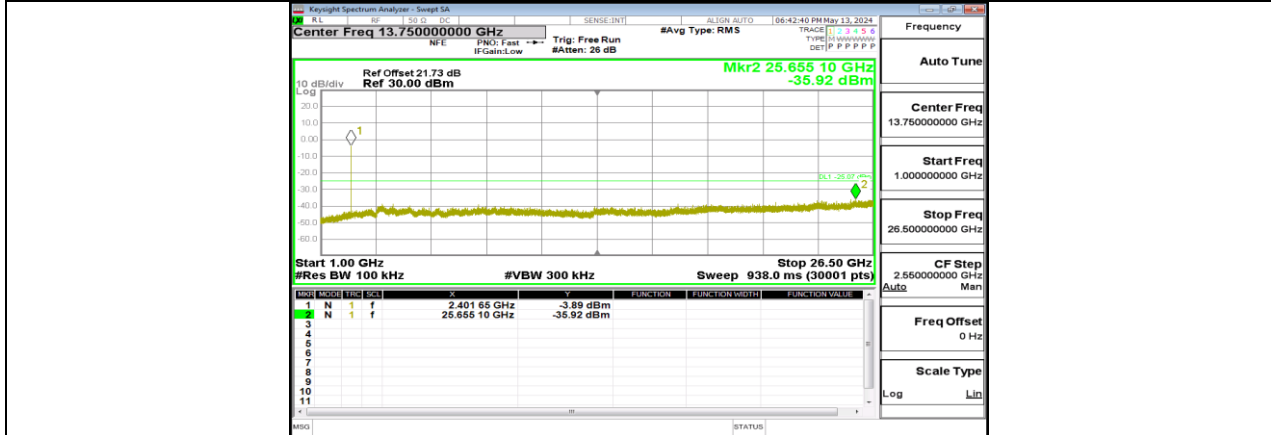
DH5_Ant2_2480_1000~26500



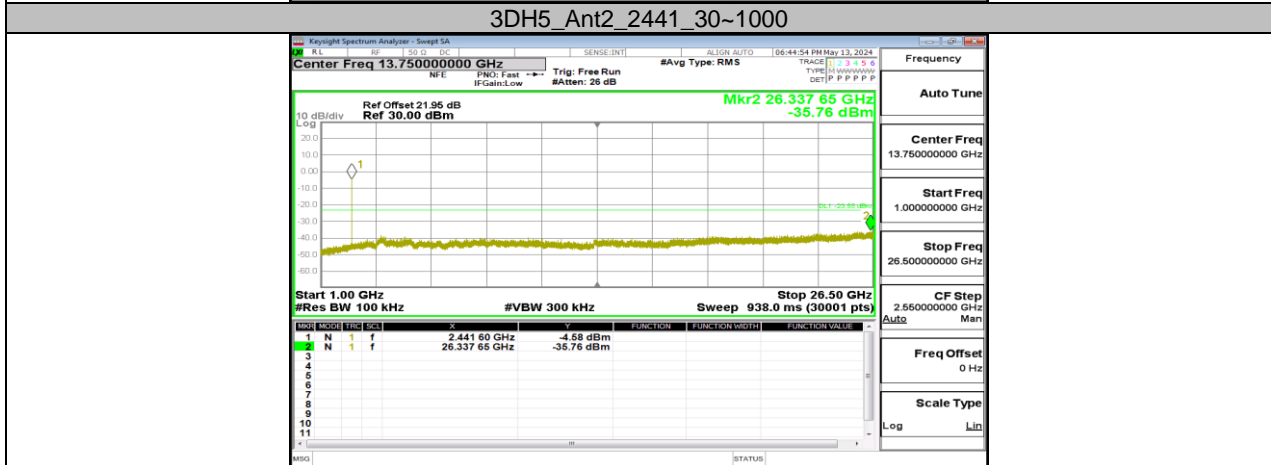
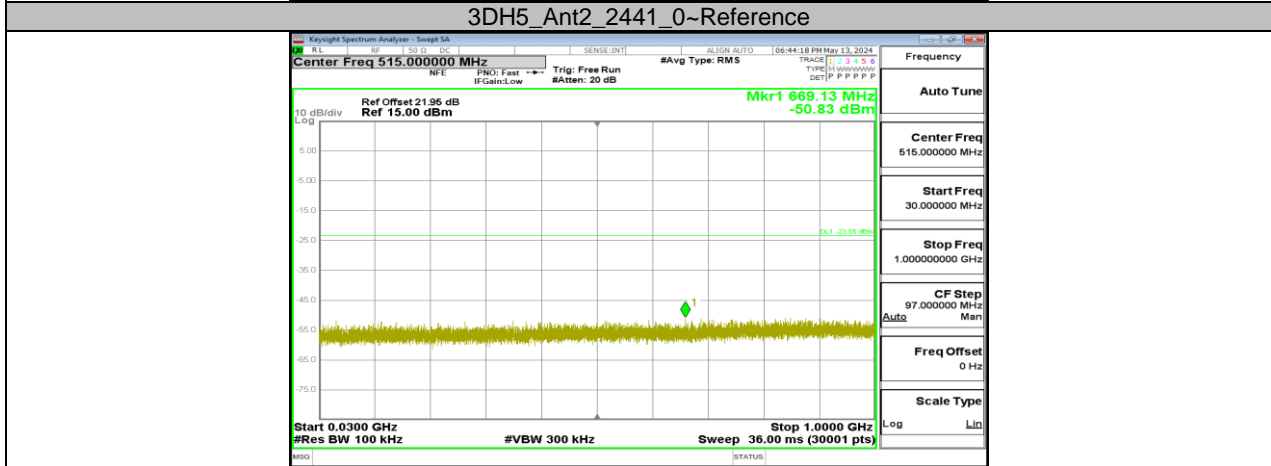
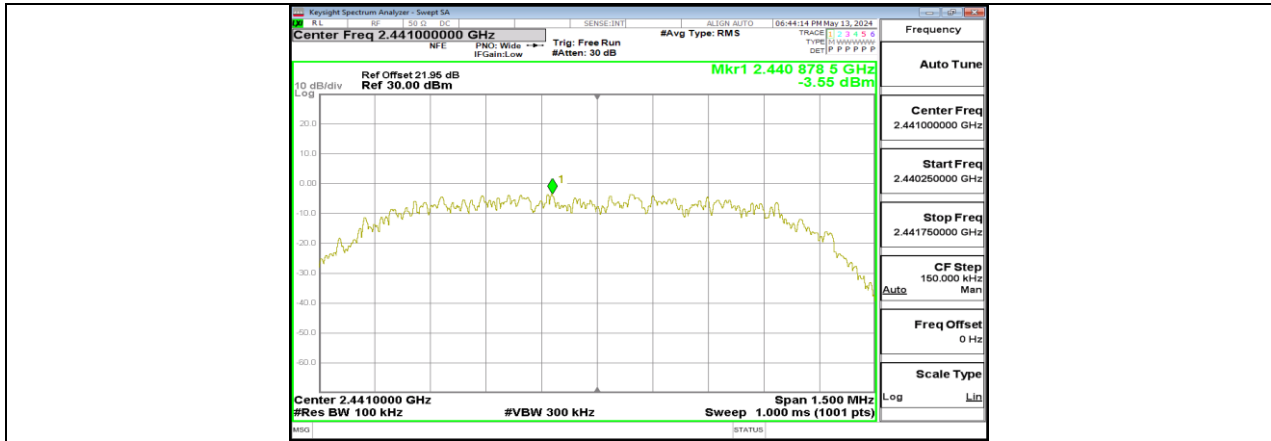
3DH5_Ant2_2402_0~Reference

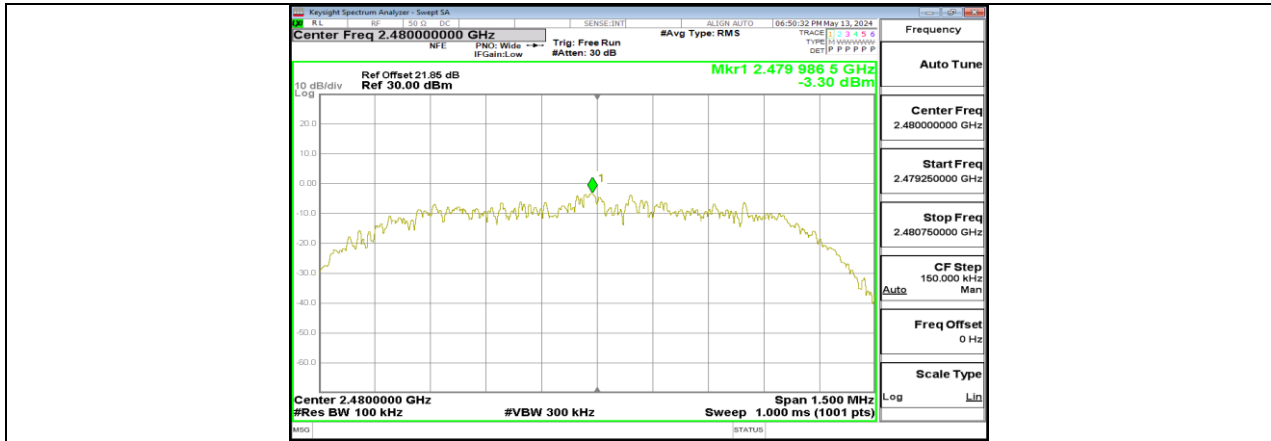


3DH5_Ant2_2402_30~1000

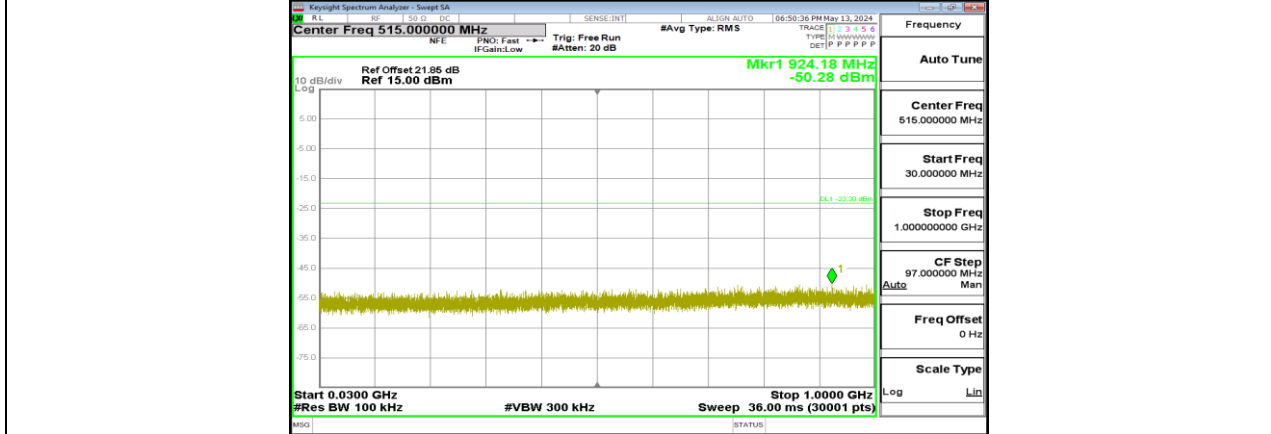


3DH5_Ant2_2402_1000~26500

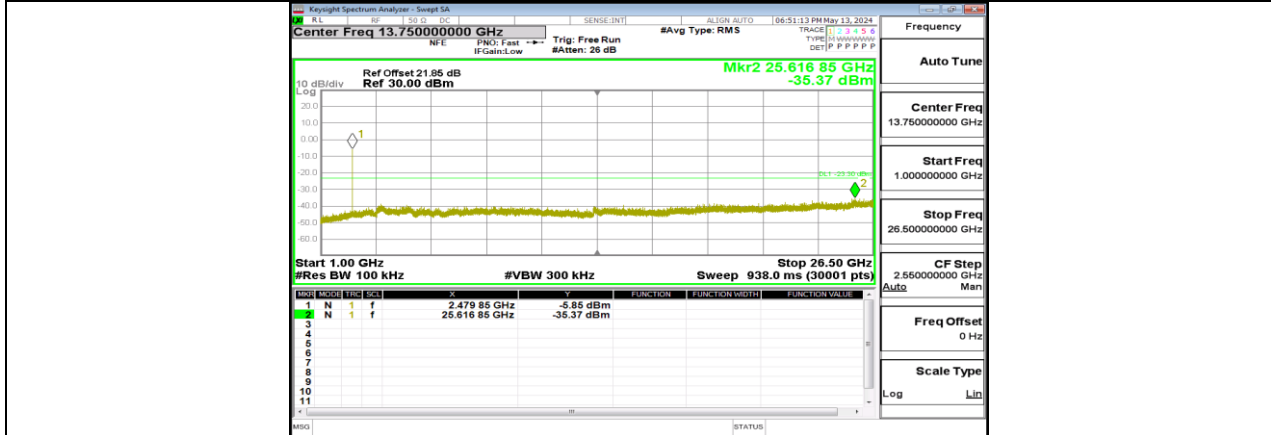




3DH5_Ant2_2480_0~Reference



3DH5_Ant2_2480_30~1000



3DH5_Ant2_2480_1000~26500

11.9. APPENDIX I: DUTY CYCLE

11.9.1. 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	2.88	3.74	0.7701	77.01	1.13	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.

11.9.2. Test Graphs



END OF REPORT