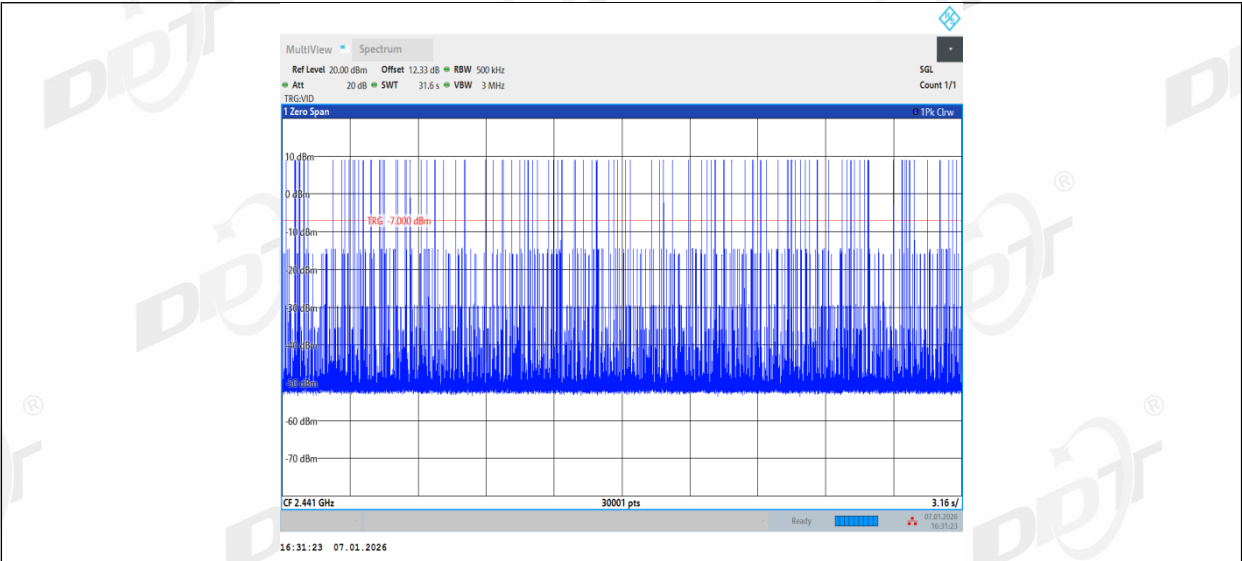
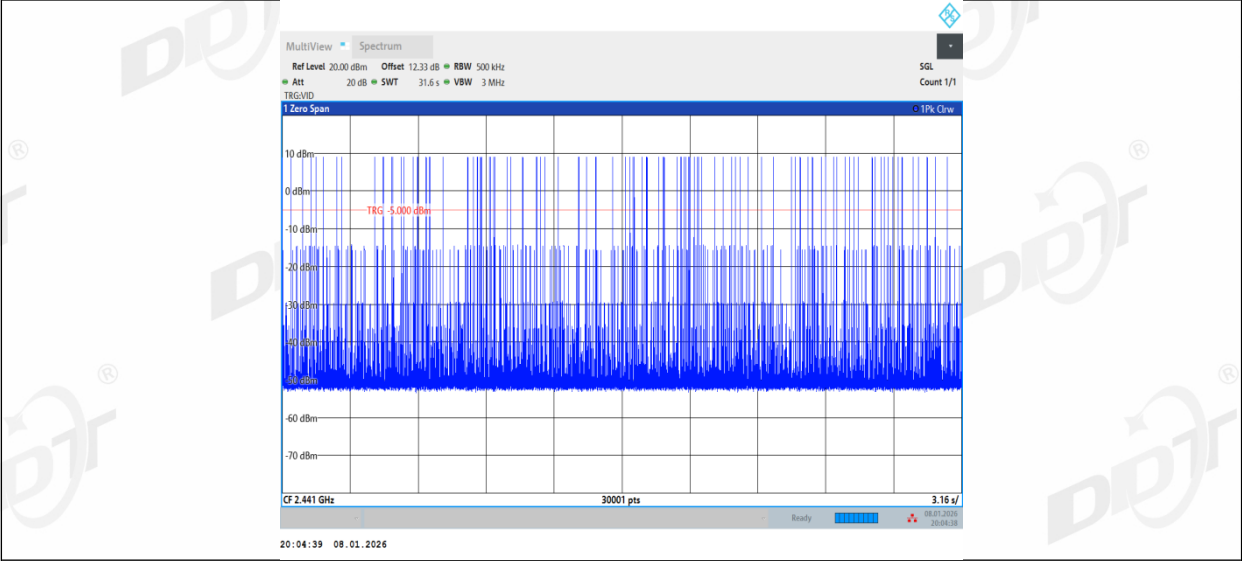
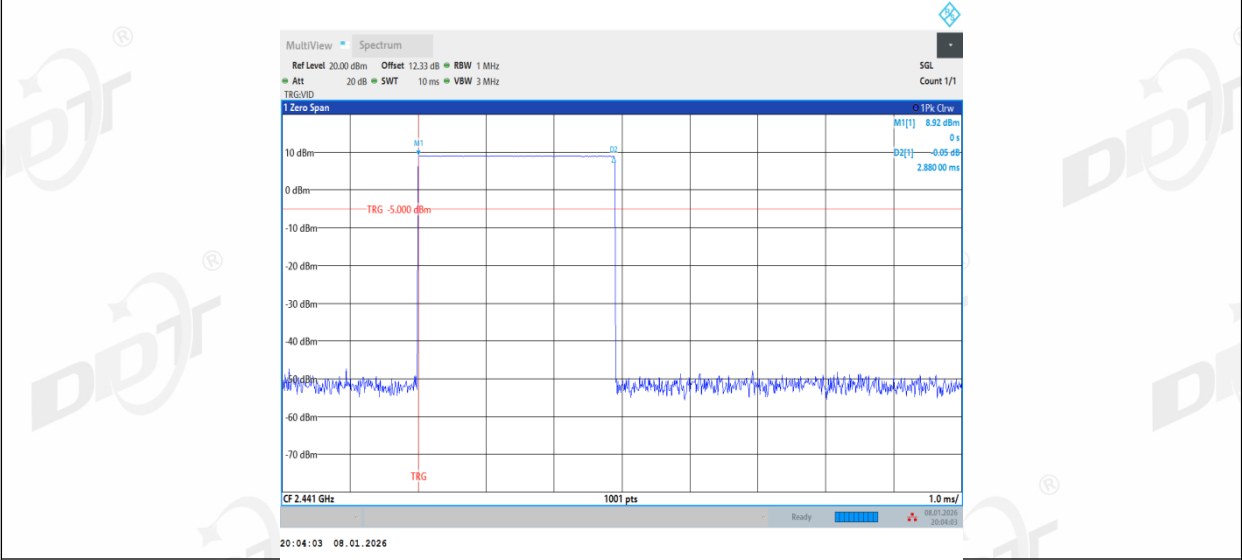
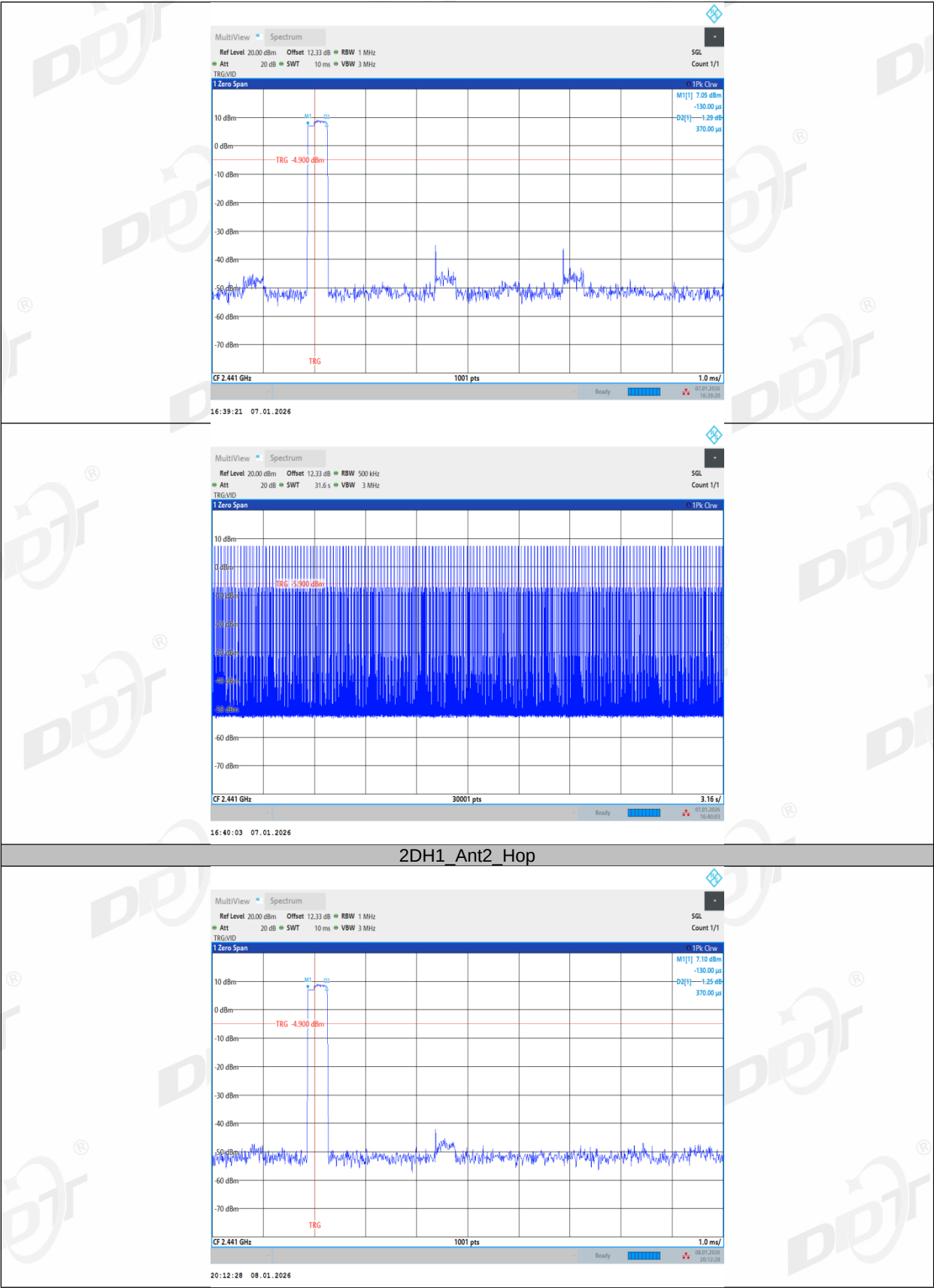


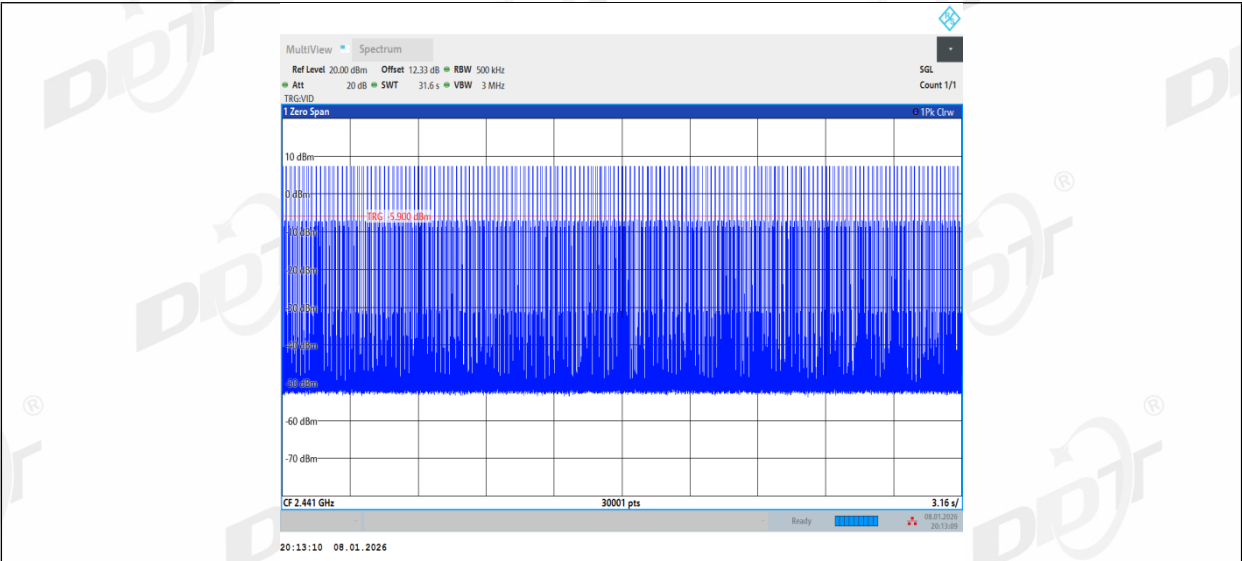


DH5_Ant2_Hop

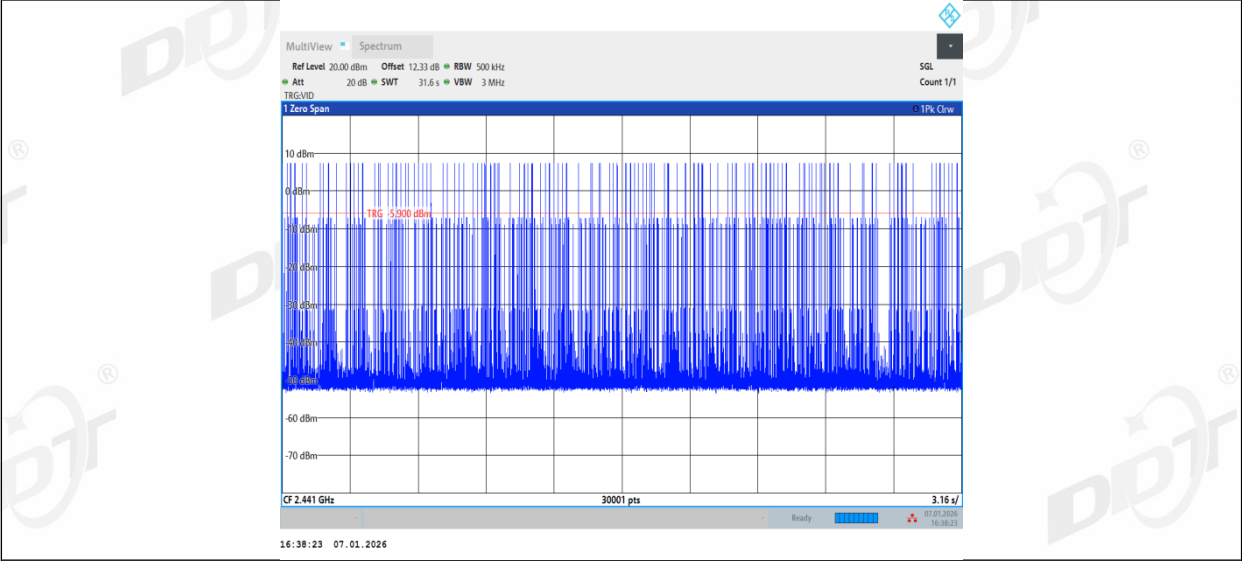
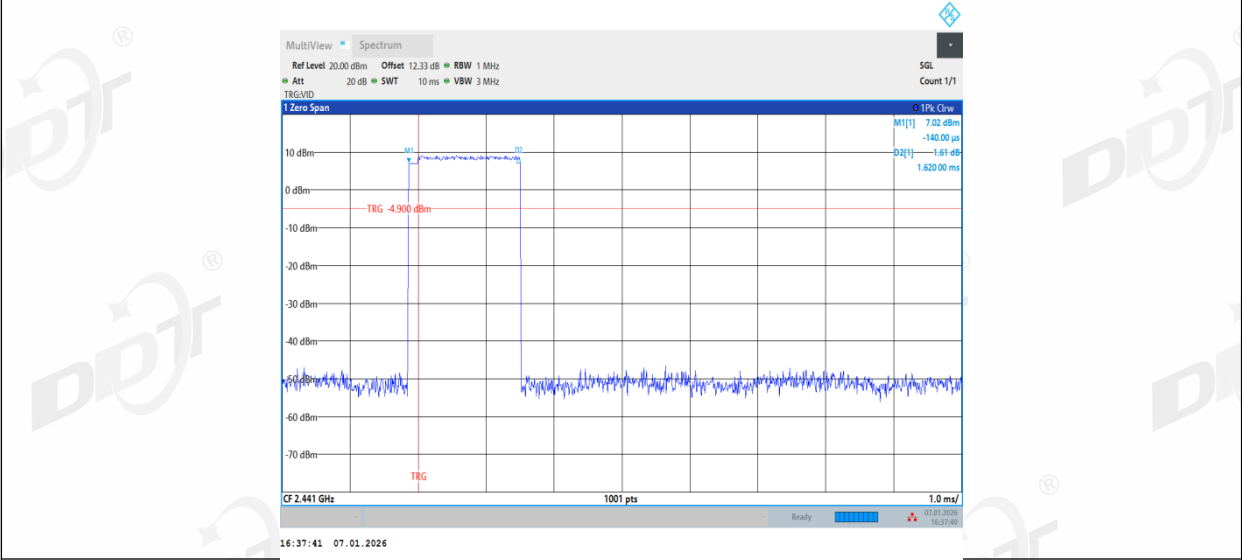


2DH1_Ant1_Hop

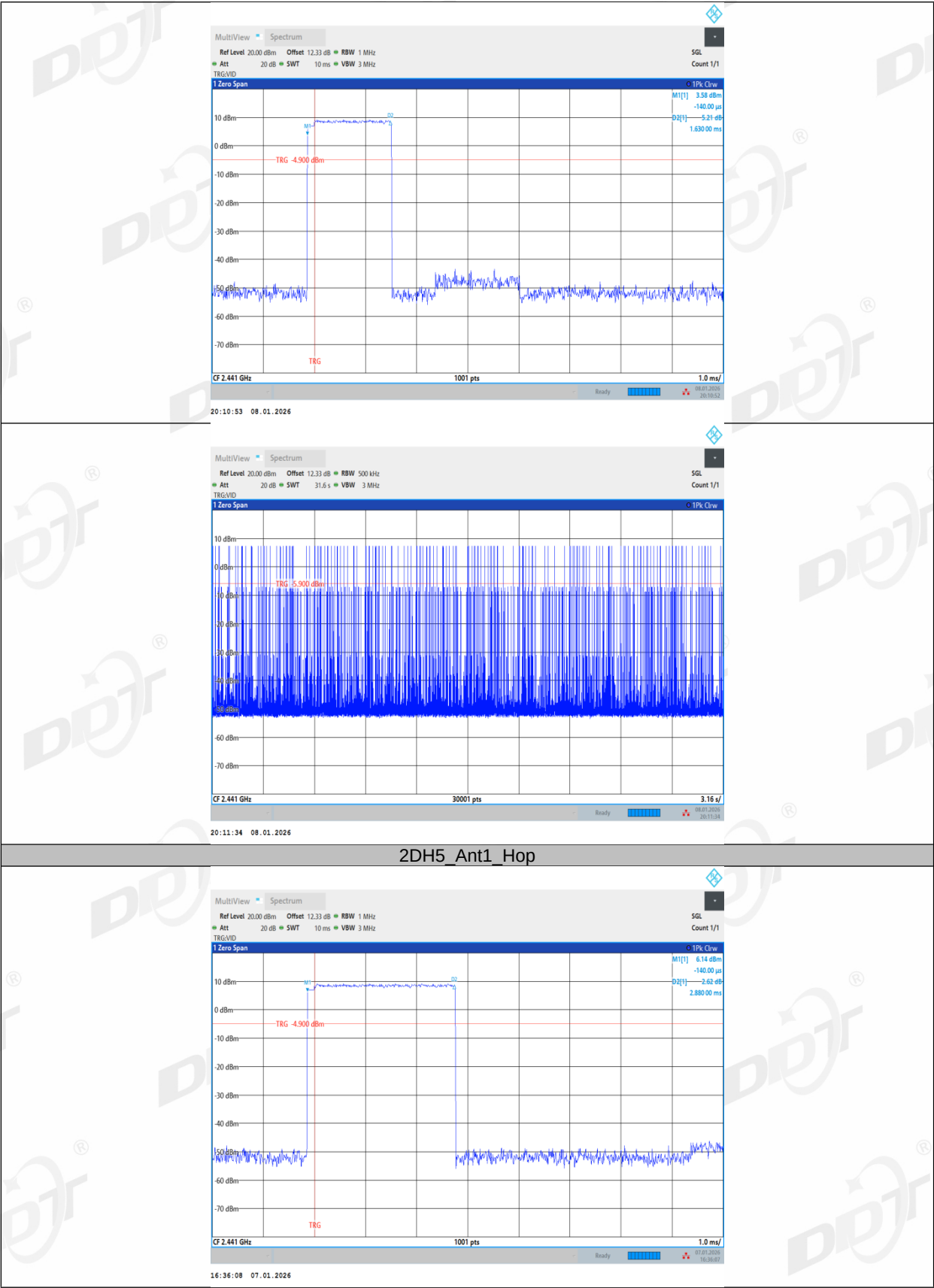


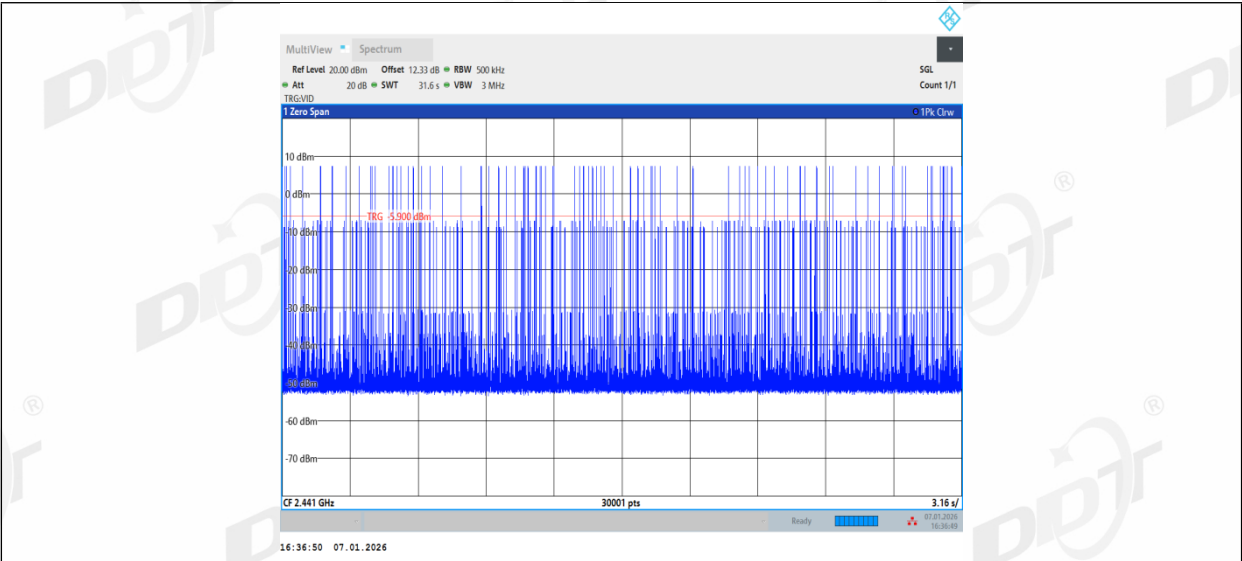


2DH3_Ant1_Hop

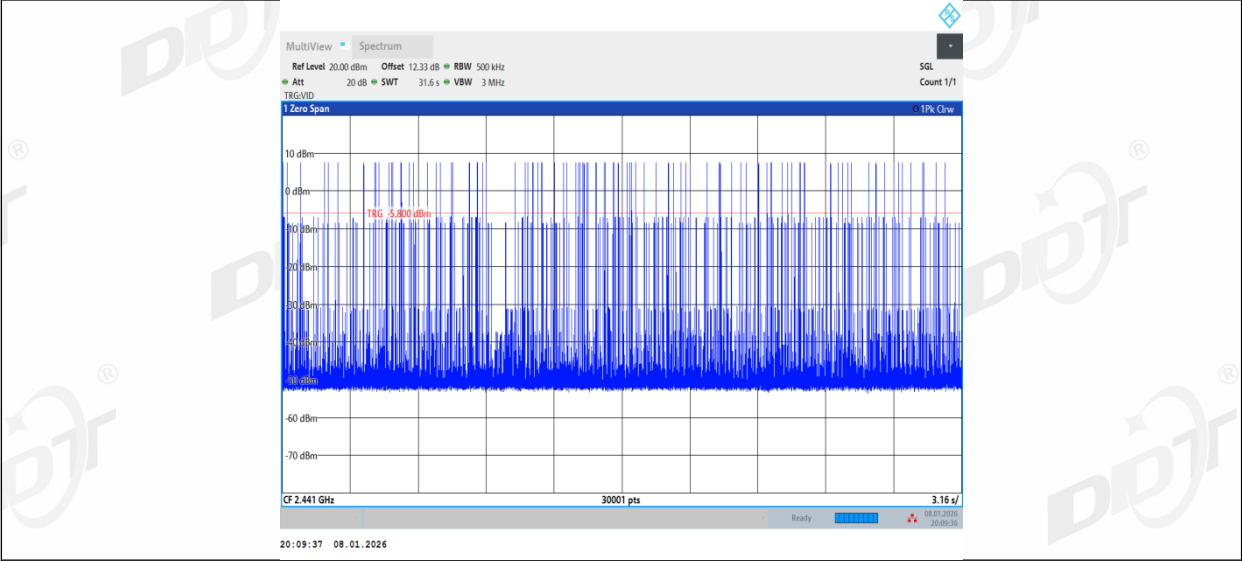
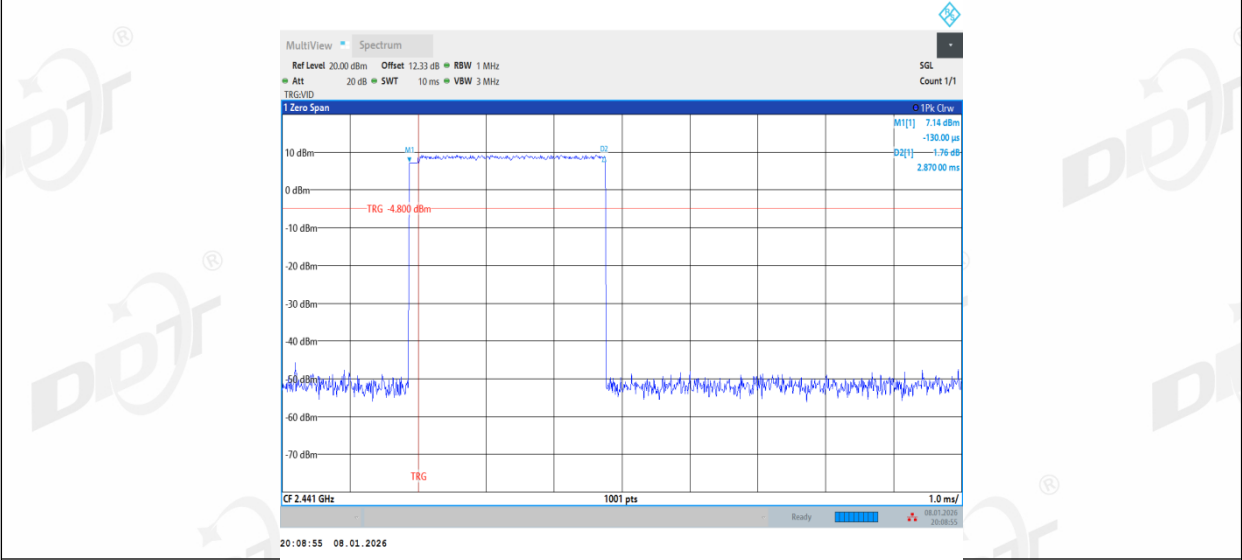


2DH3_Ant2_Hop

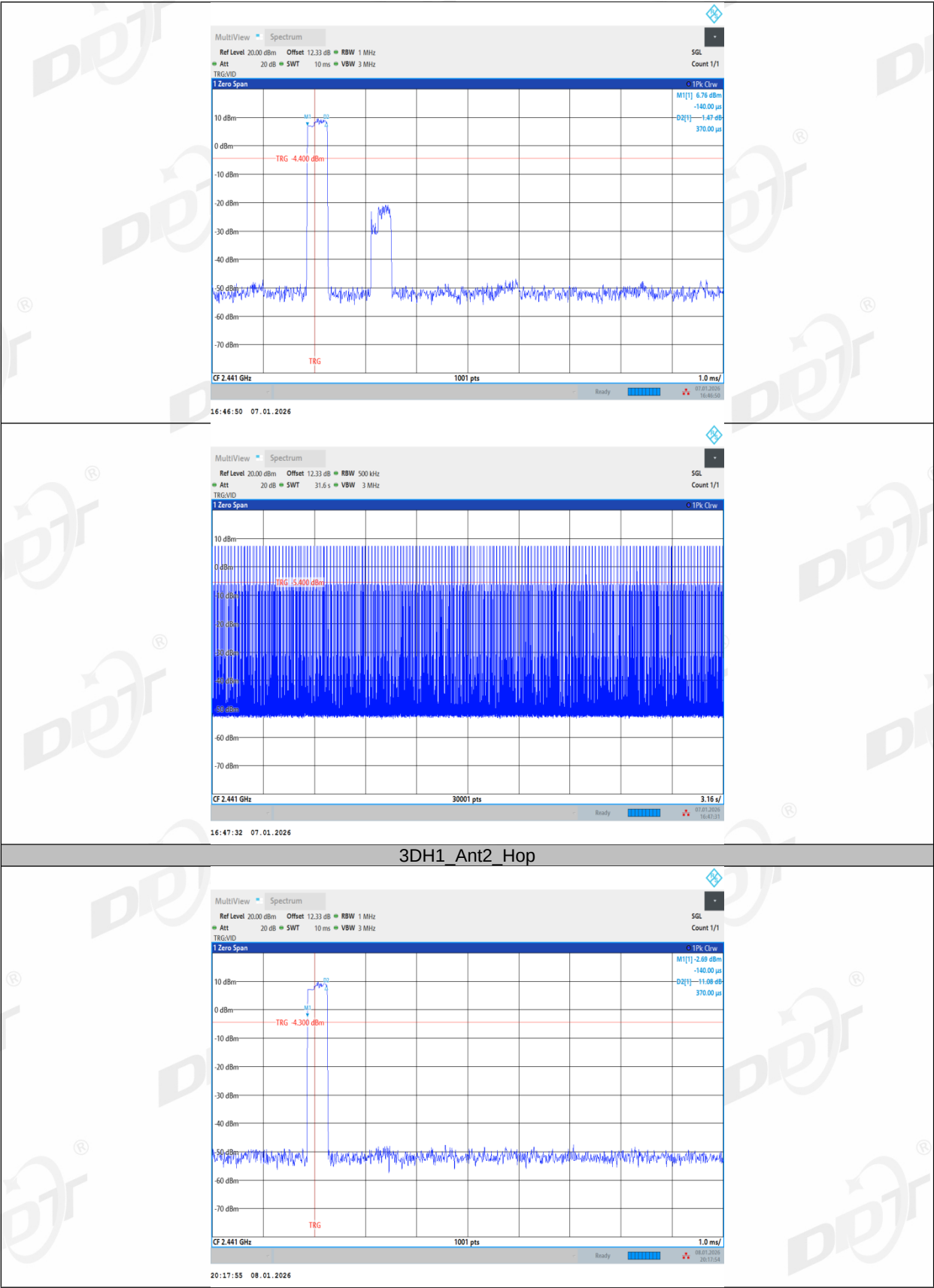


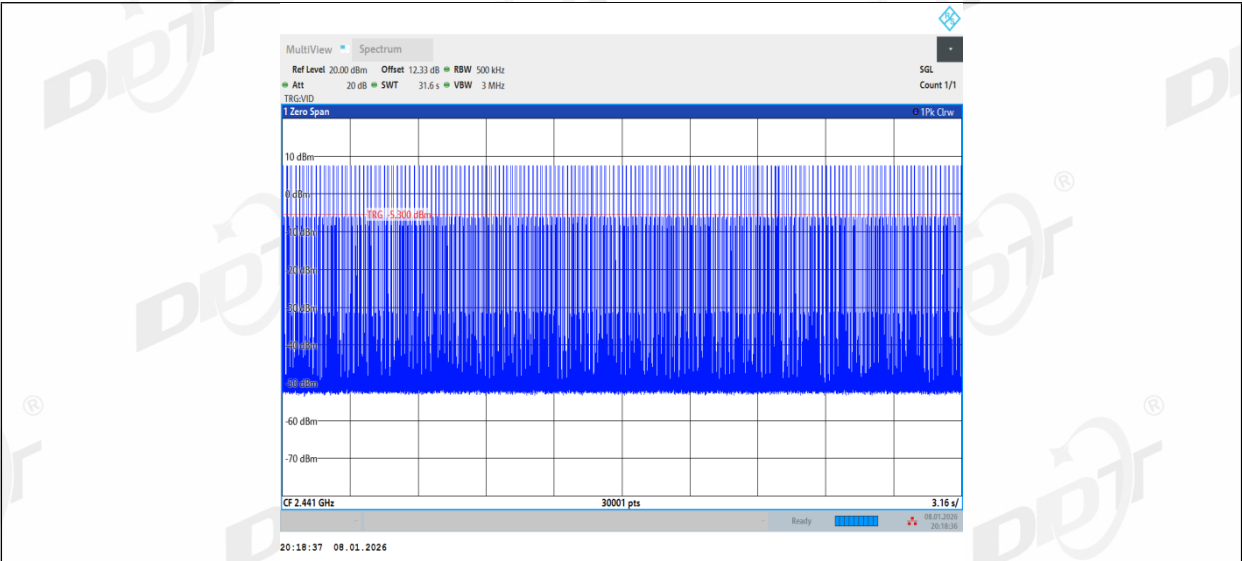


2DH5_Ant2_Hop

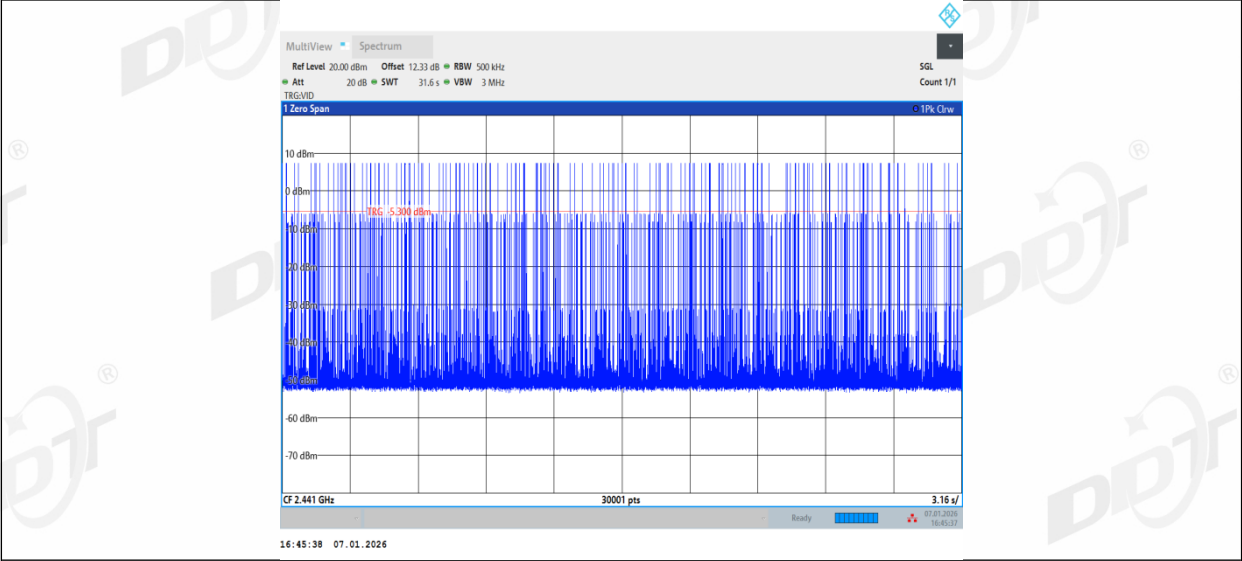
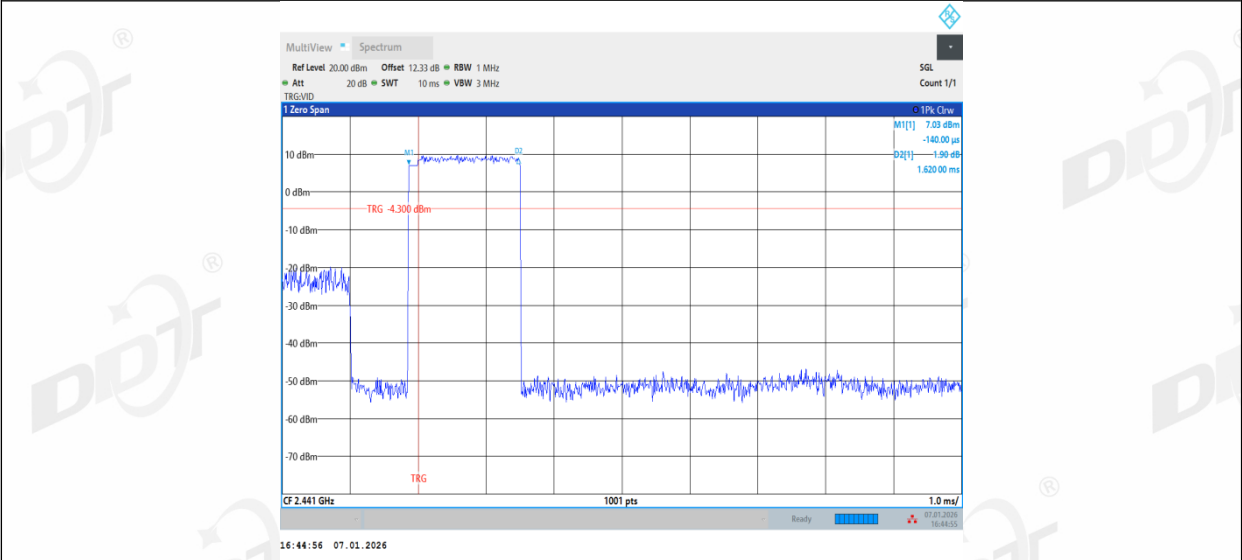


3DH1_Ant1_Hop

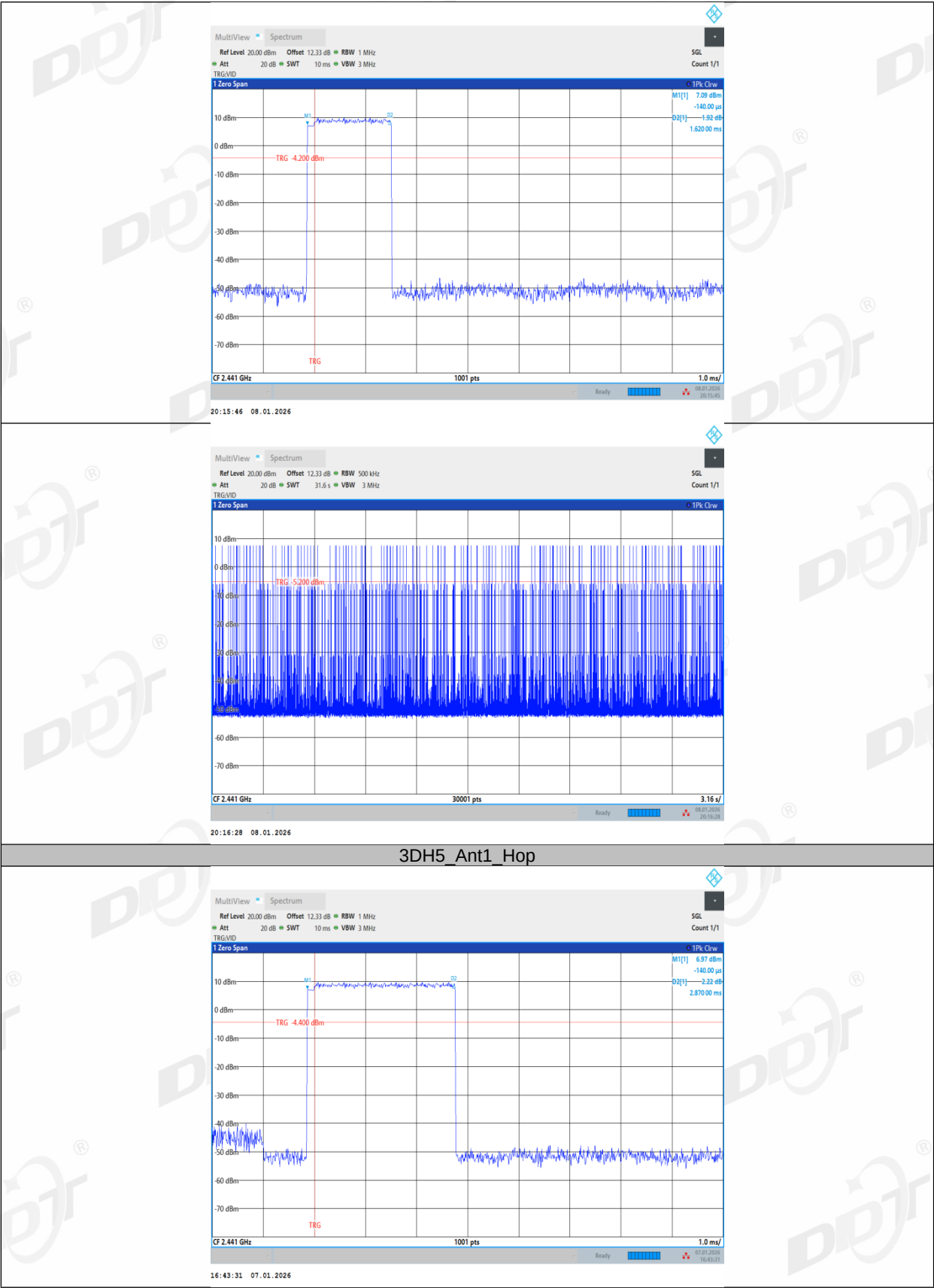


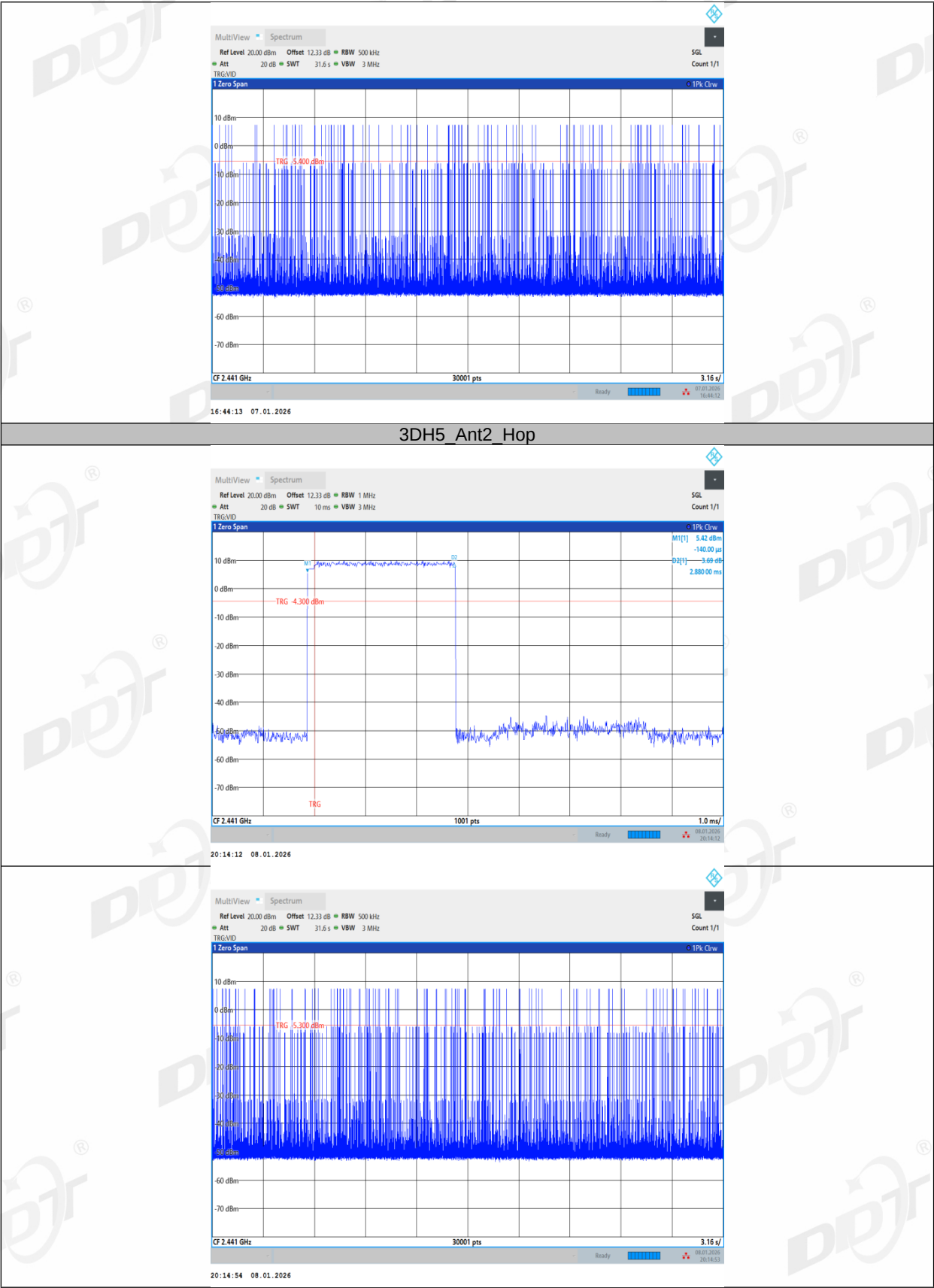


3DH3_Ant1_Hop



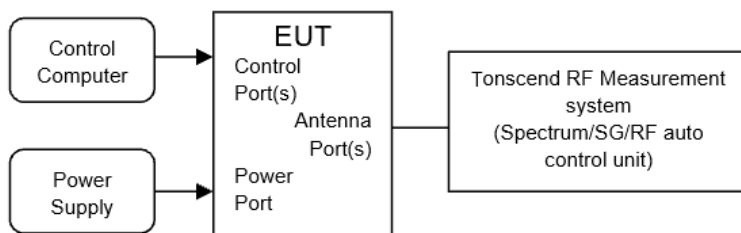
3DH3_Ant2_Hop





9. Number of Hopping Channel

9.1. Block diagram of test setup



9.2. Limits

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

9.3. Test procedure

- (1) The test according to ANSI C63.10 clause 7.8.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results.
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously.
- (4) Use the following spectrum analyzer settings for the maximum peak output power measurement:

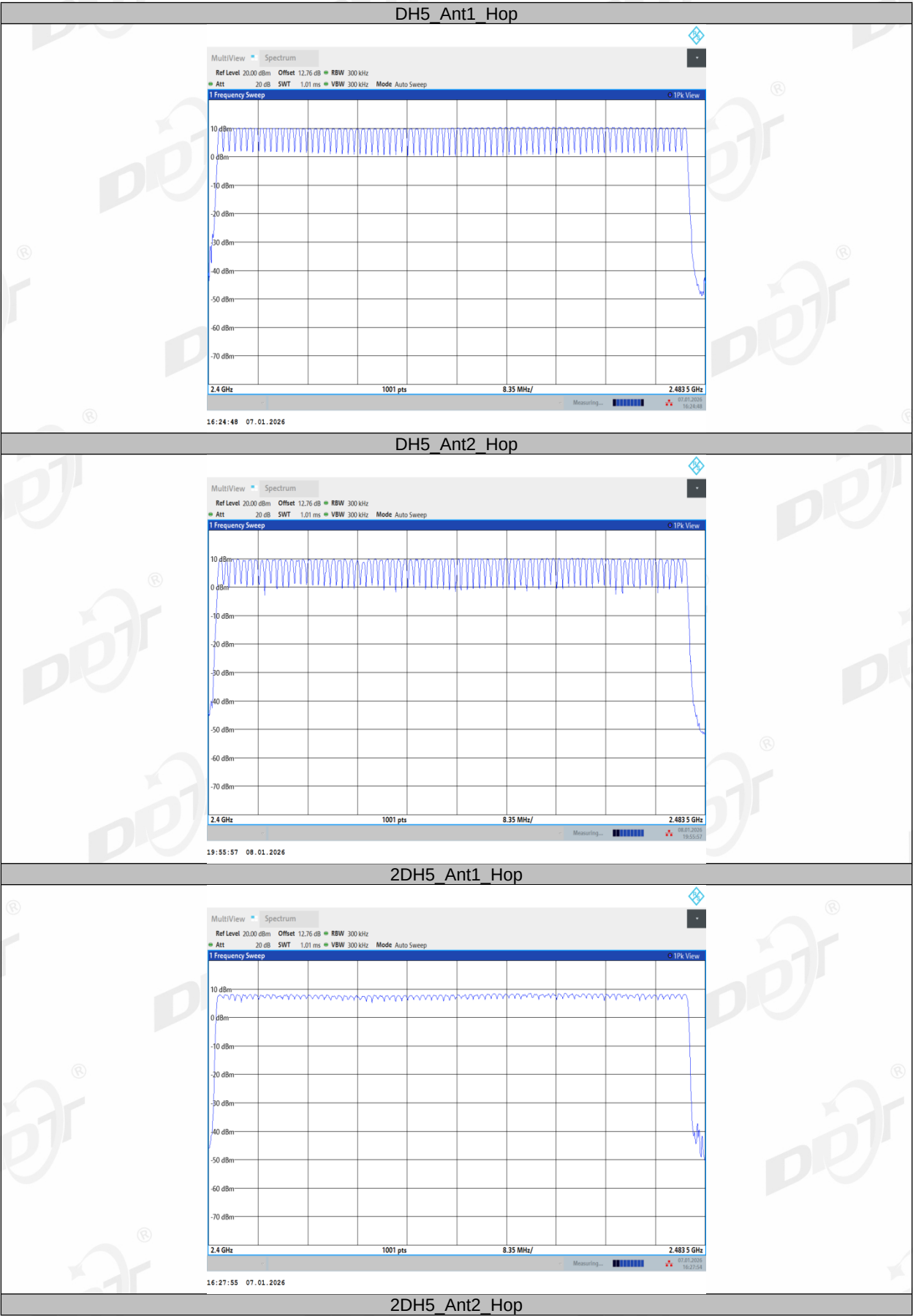
RBW:	RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
VBW:	VBW $\geq$ RBW.
Span:	The frequency band of operation
Detector Mode:	Peak
Sweep time:	Auto
Trace mode:	Max hold
- (5) Measure the hopping number and record the results in the report.
- (6) Measure and record the results in the report.

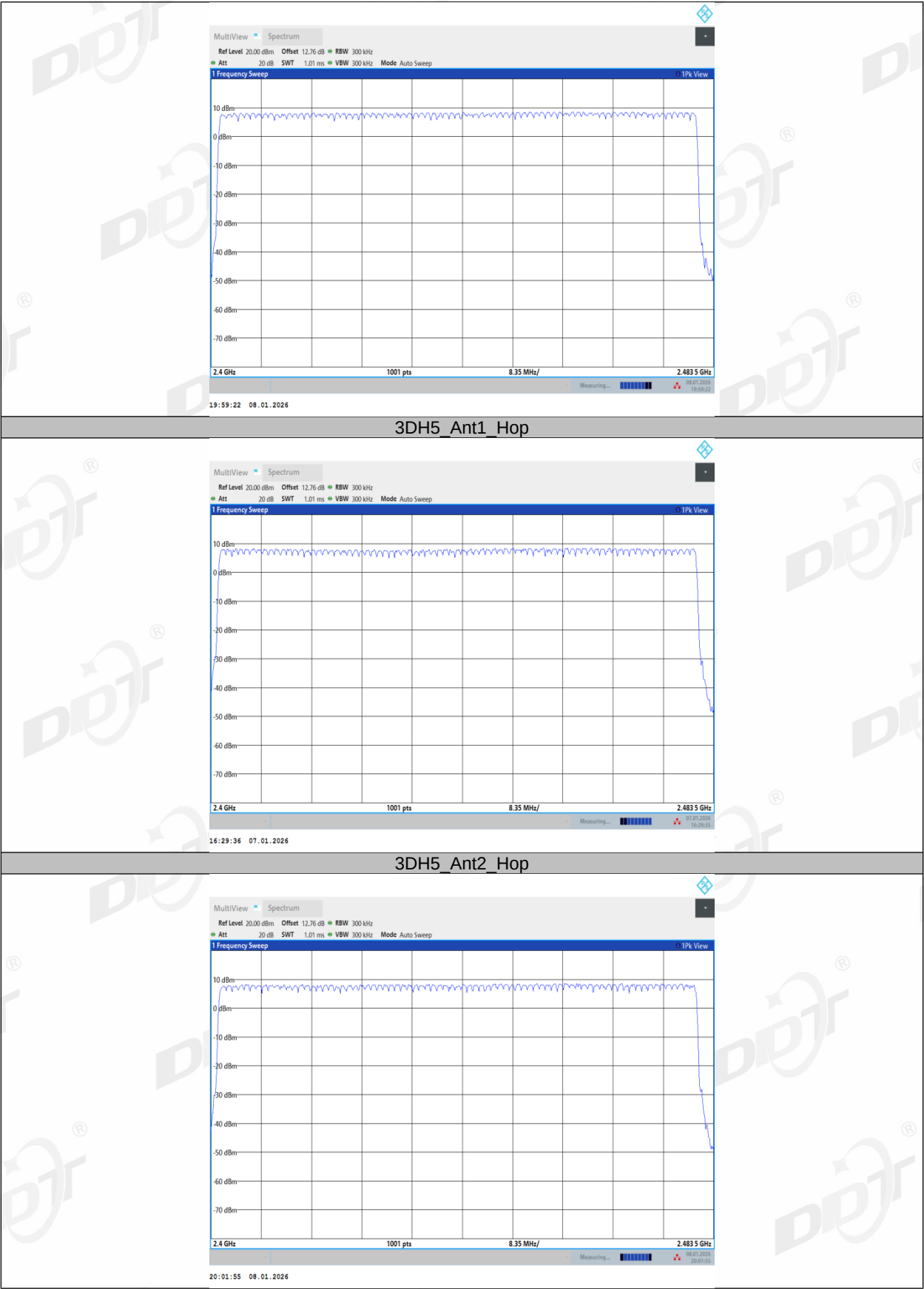
9.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-26.5℃,37.1-45.2%RH	Test Date:	2026.01.07-2026.01.16
Test Power Supply:	Battery	Sample Number:	S25103113-004

Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
	Ant2	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
	Ant2	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS
	Ant2	Hop	79	≥15	PASS

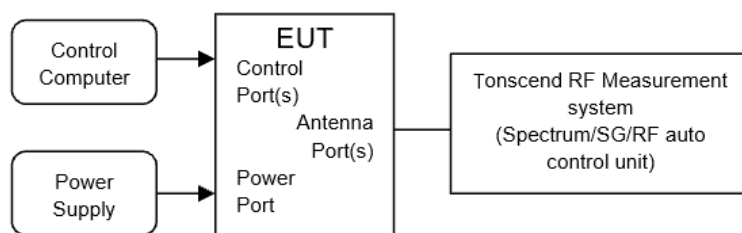
9.5. Test graphs





10. Band Edge Compliance (Conducted Method)

10.1. Block diagram of test setup



10.2. Limit

All restriction band should comply with 15.209, other emission should be at least 20dB below the fundamental.

10.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
- (2) Establish a reference level by using the following procedure:

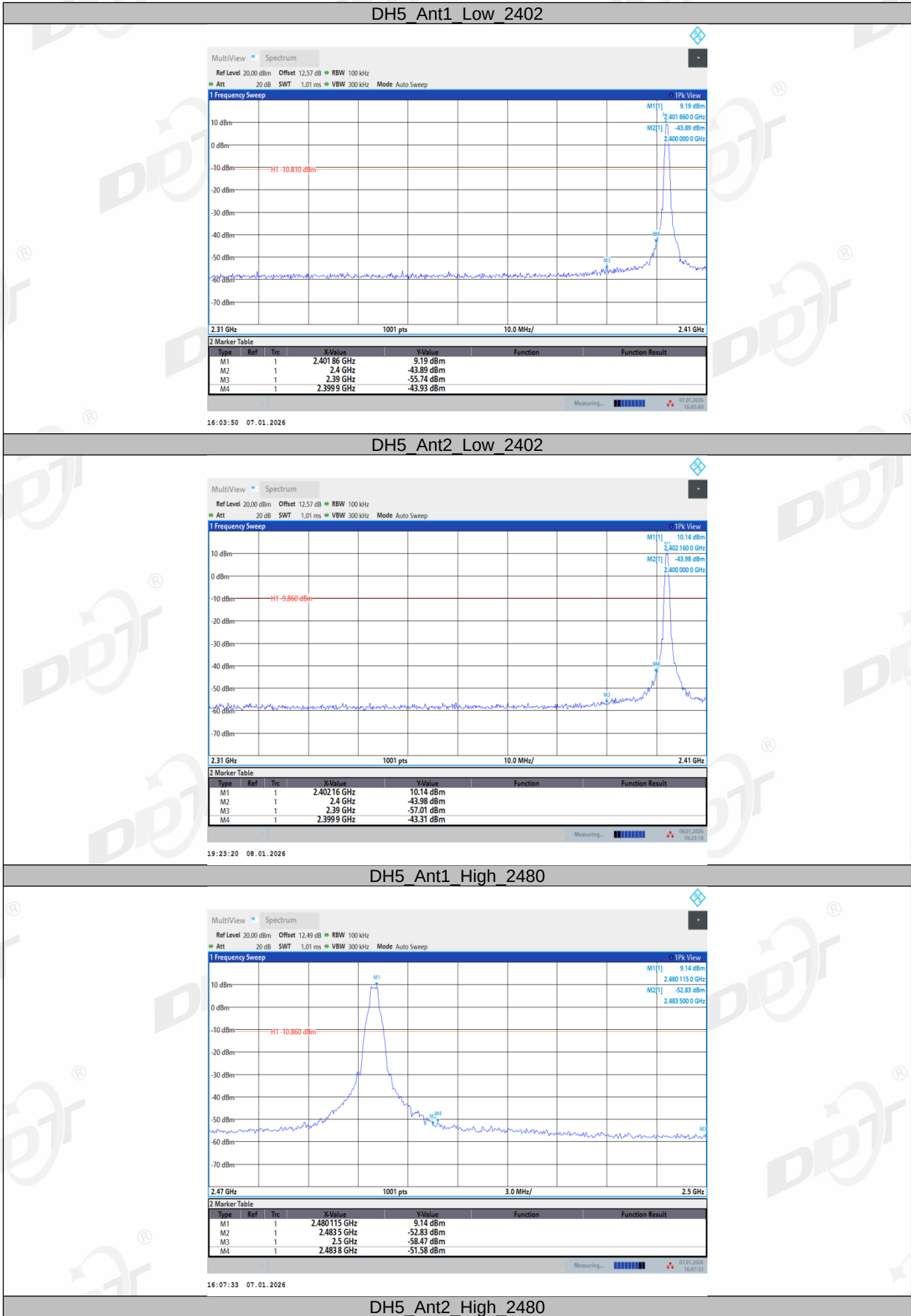
RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
- (4) Then mark the maximum amplitude of all unwanted emissions outside of the authorized frequency band.

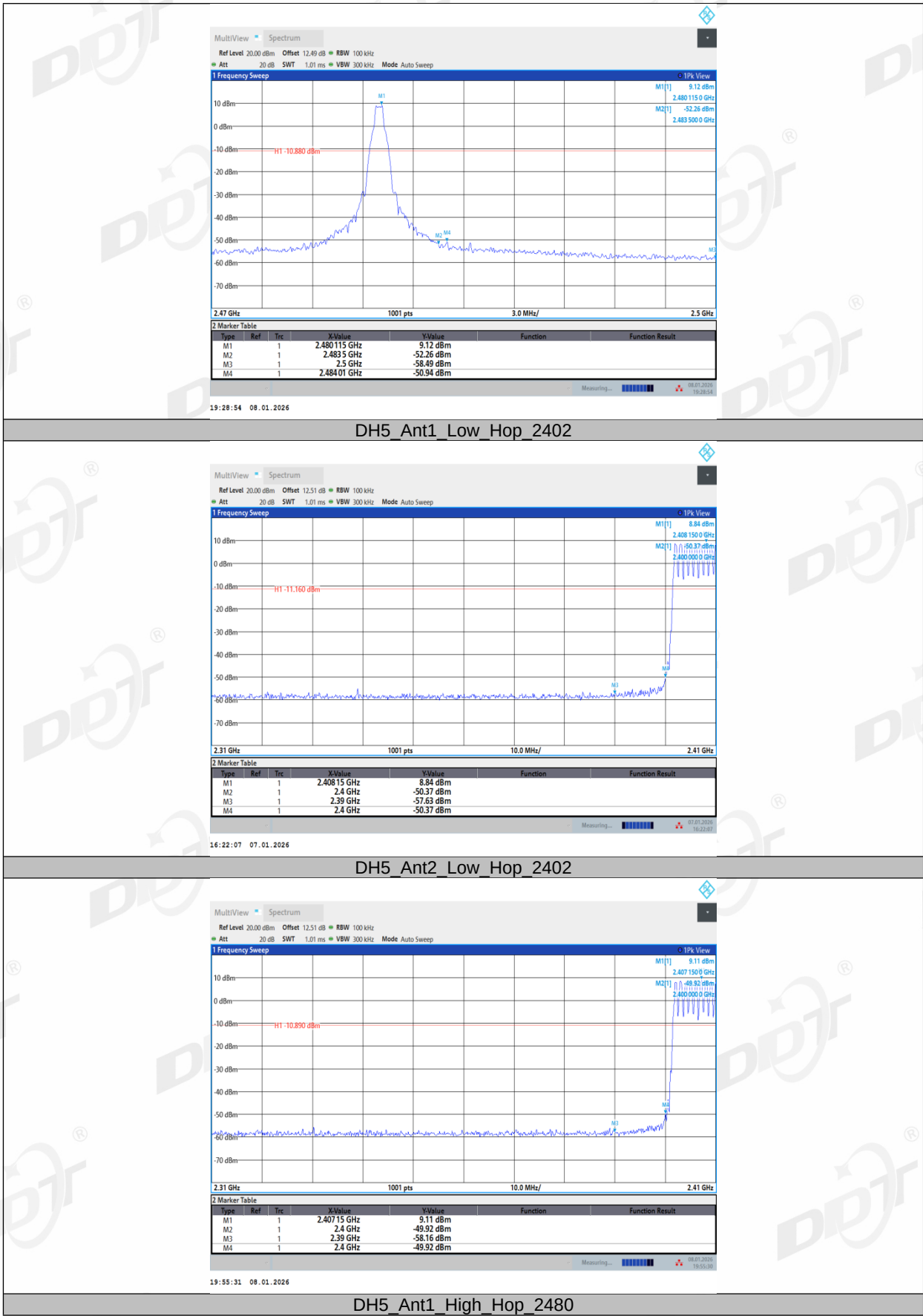
10.4. Test result

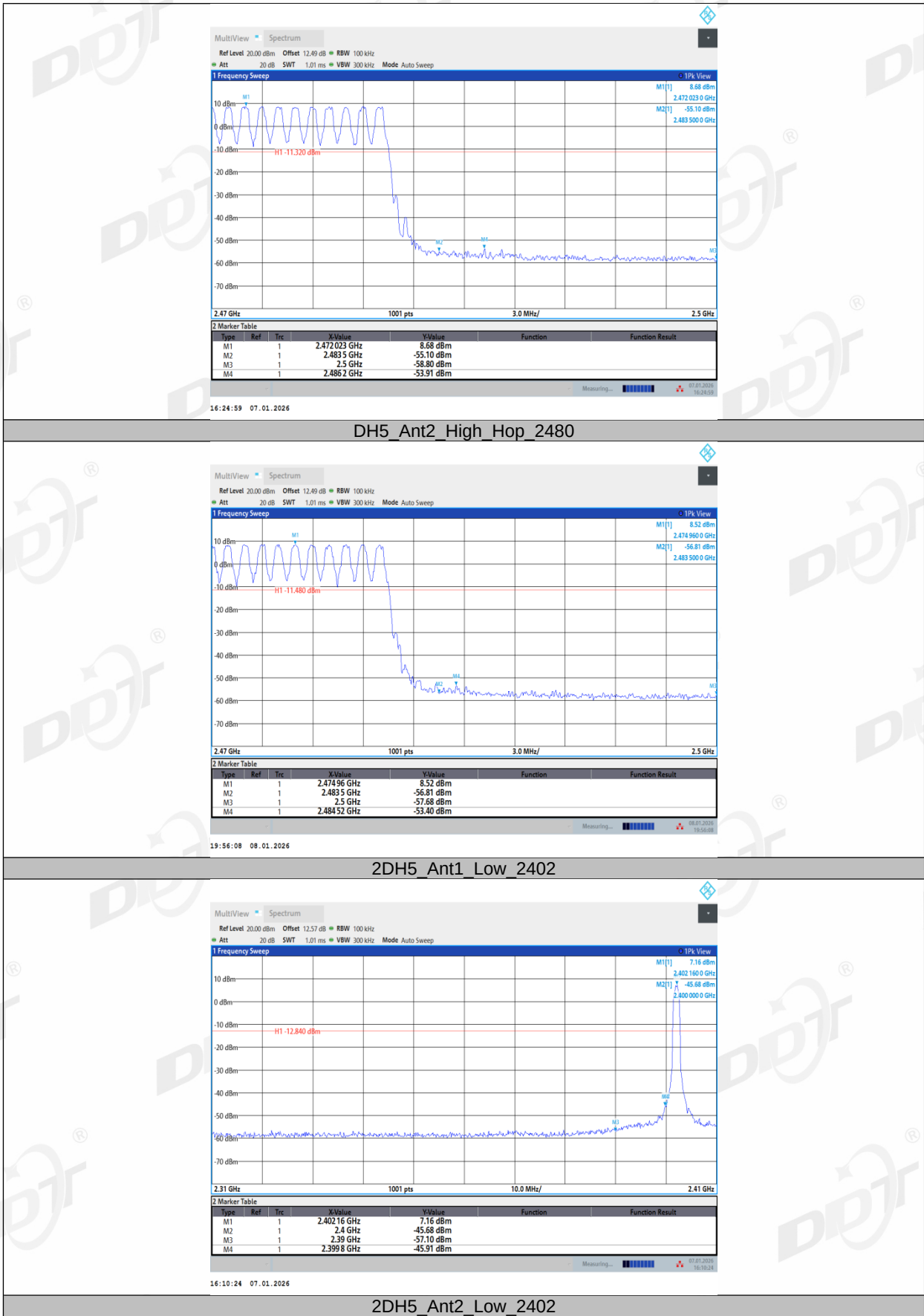
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-26.5℃,37.1-45.2%RH	Test Date:	2026.01.07-2026.01.16
Test Power Supply:	Battery	Sample Number:	S25103113-004

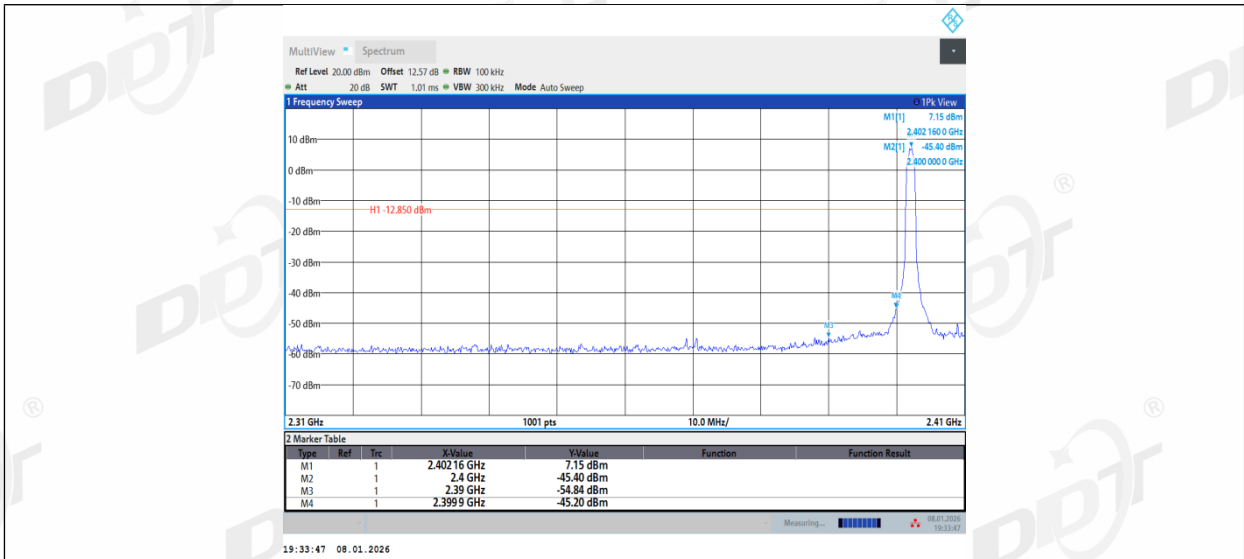
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2480	Pass
	Hopping on	Pass

10.5. Test graphs

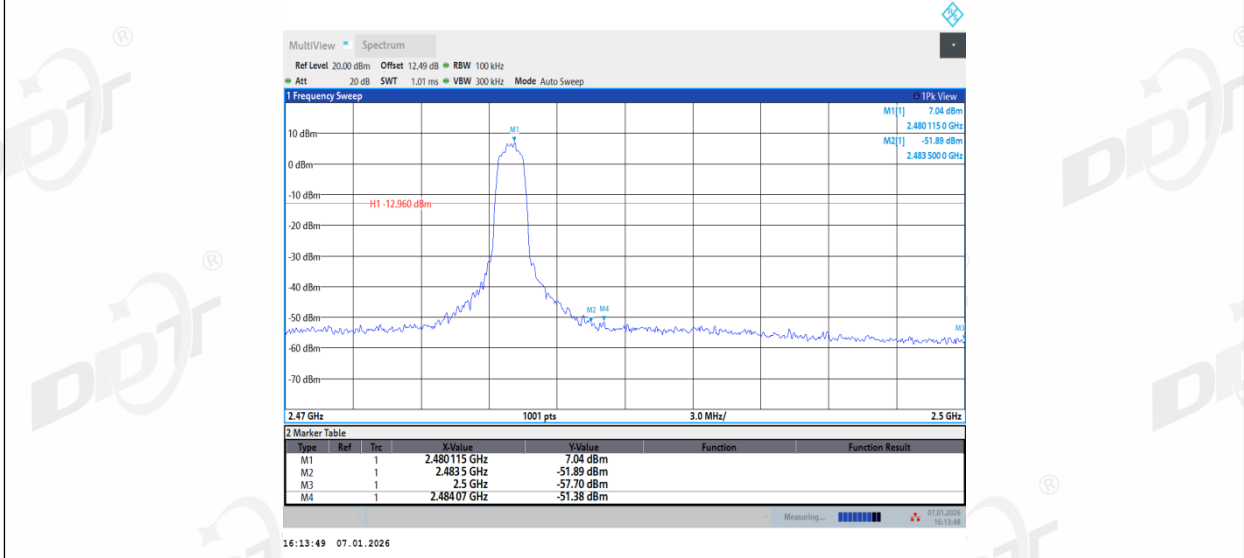




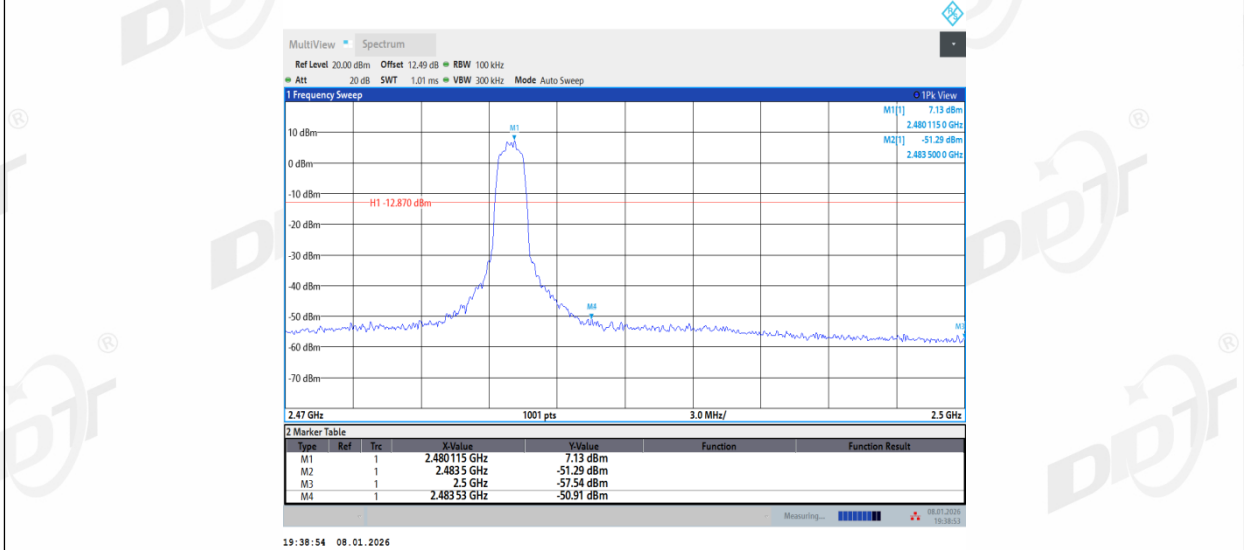




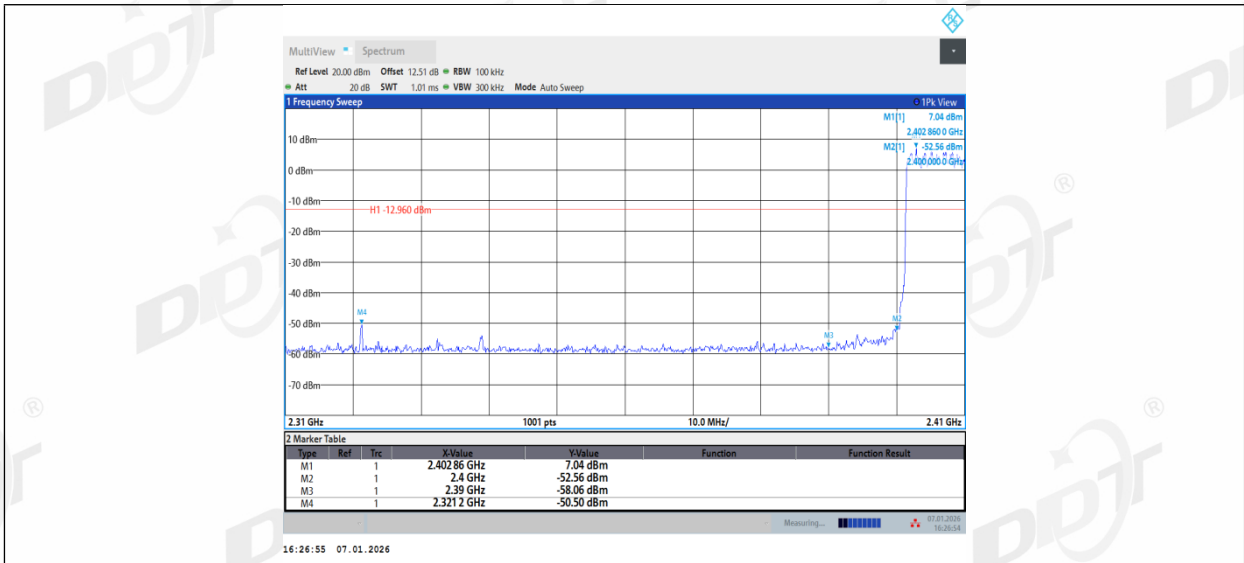
2DH5_Ant1_High_2480



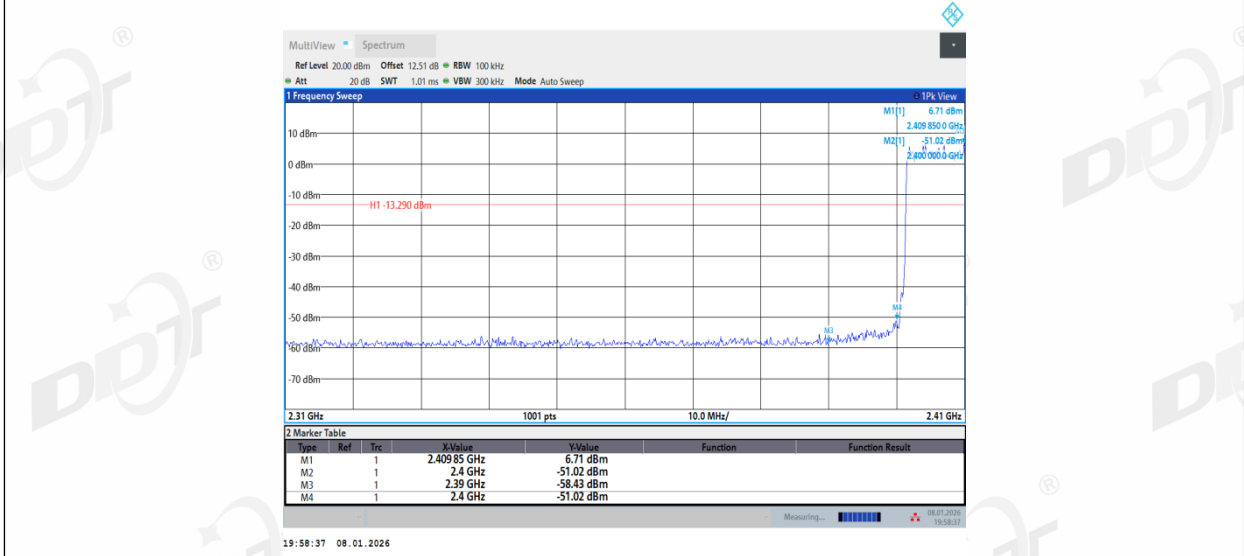
2DH5_Ant2_High_2480



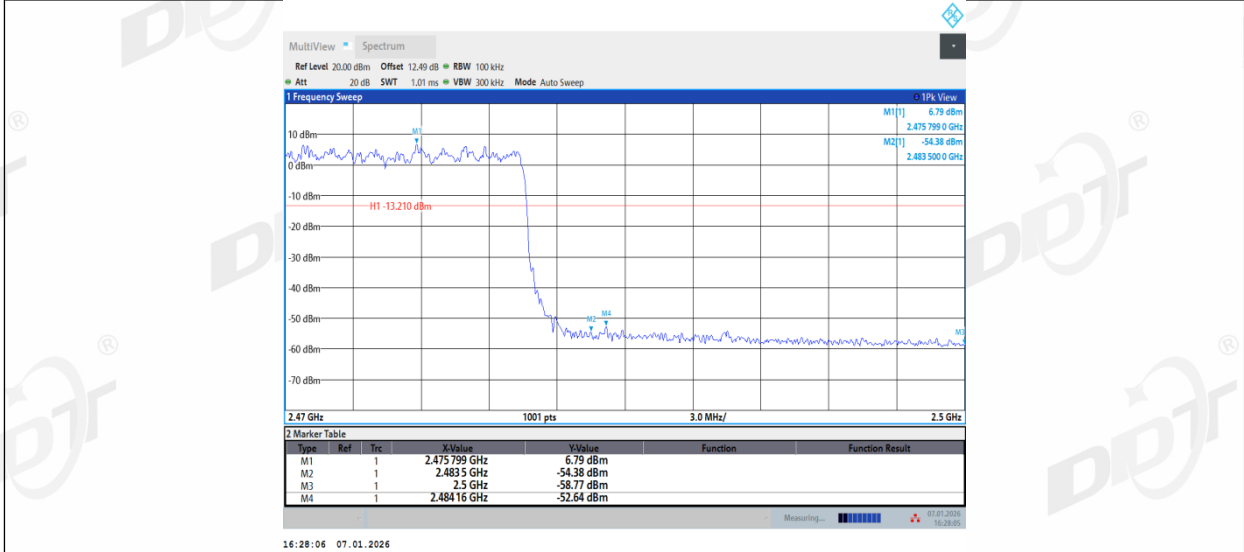
2DH5_Ant1_Low_Hop_2402



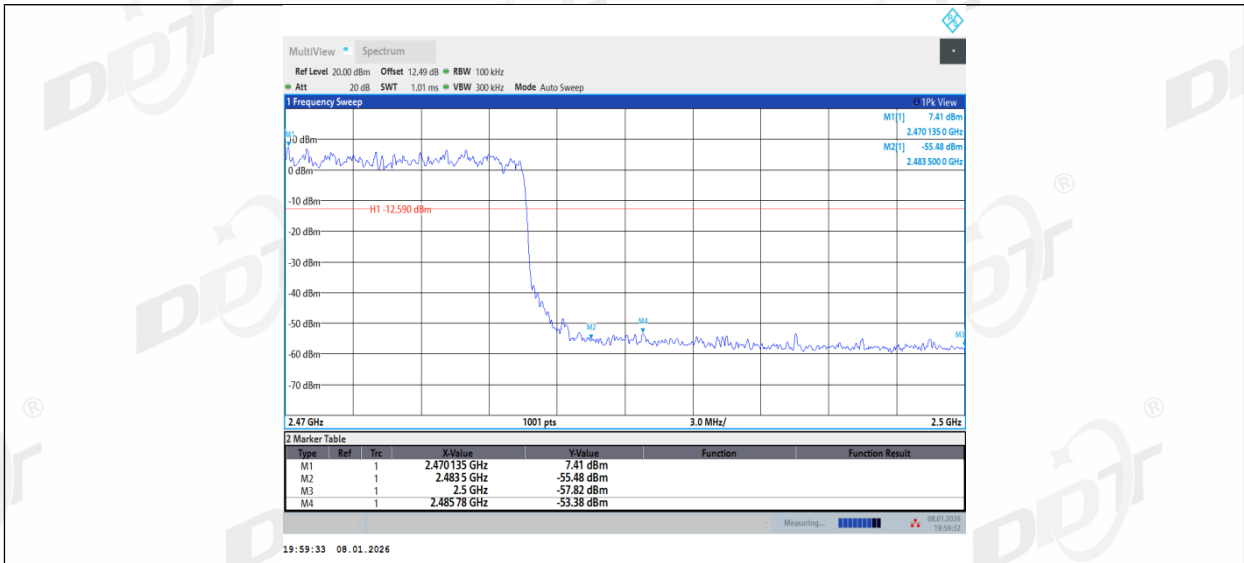
2DH5_Ant2_Low_Hop_2402



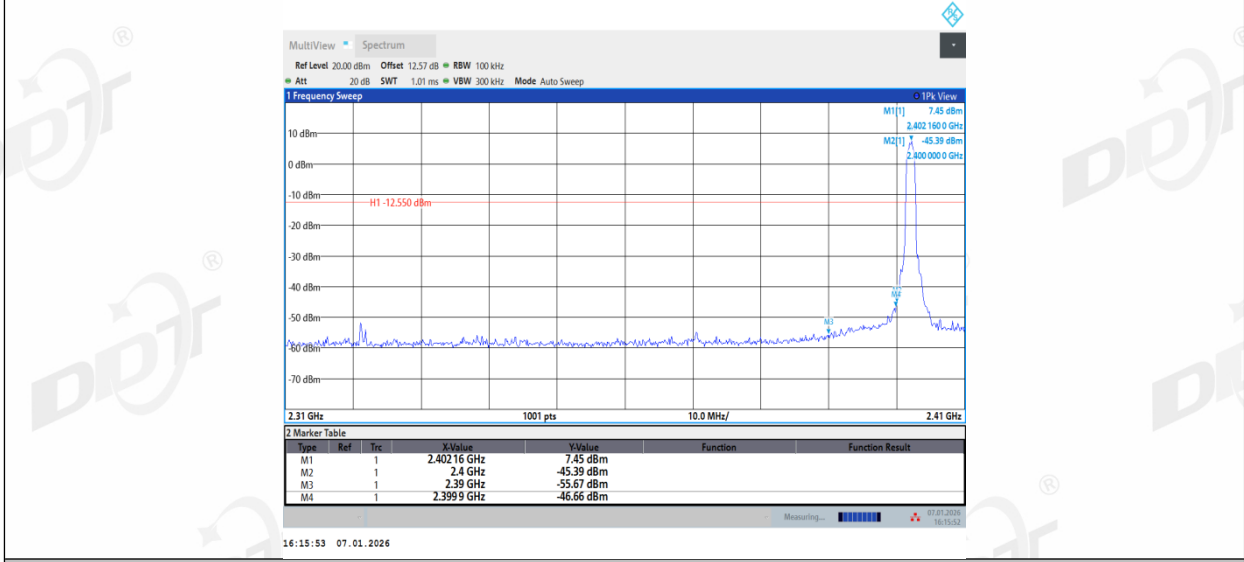
2DH5_Ant1_High_Hop_2480



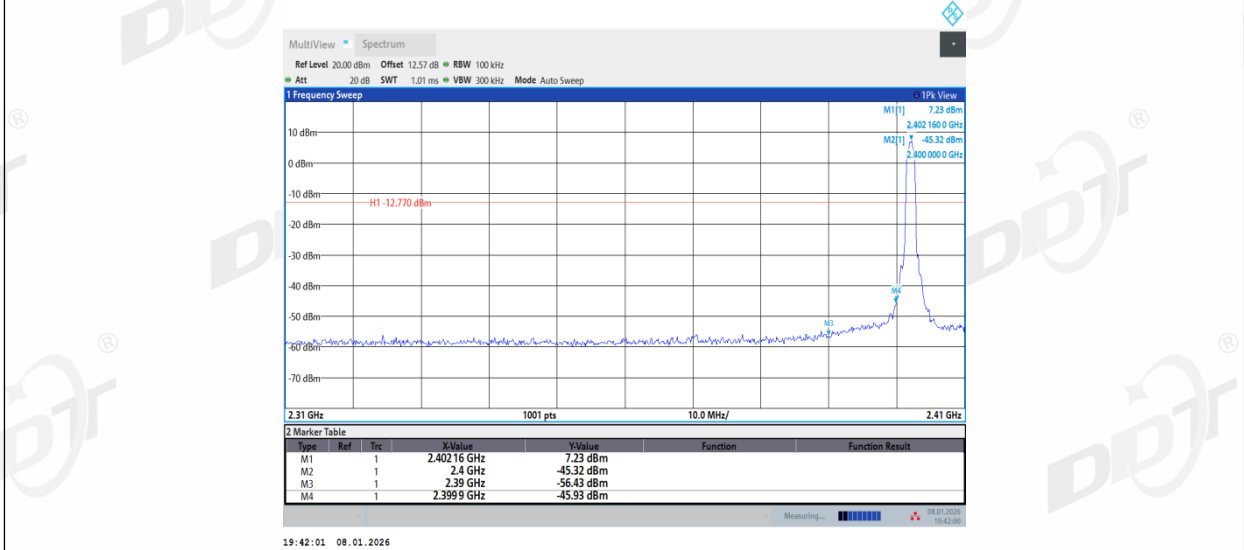
2DH5_Ant2_High_Hop_2480



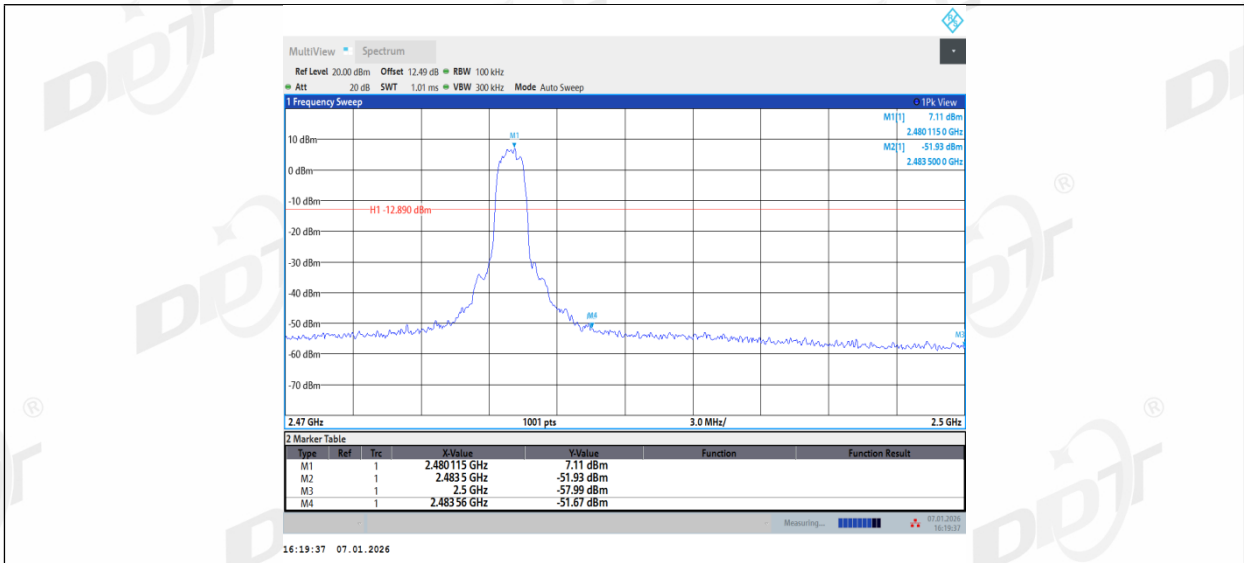
3DH5_Ant1_Low_2402



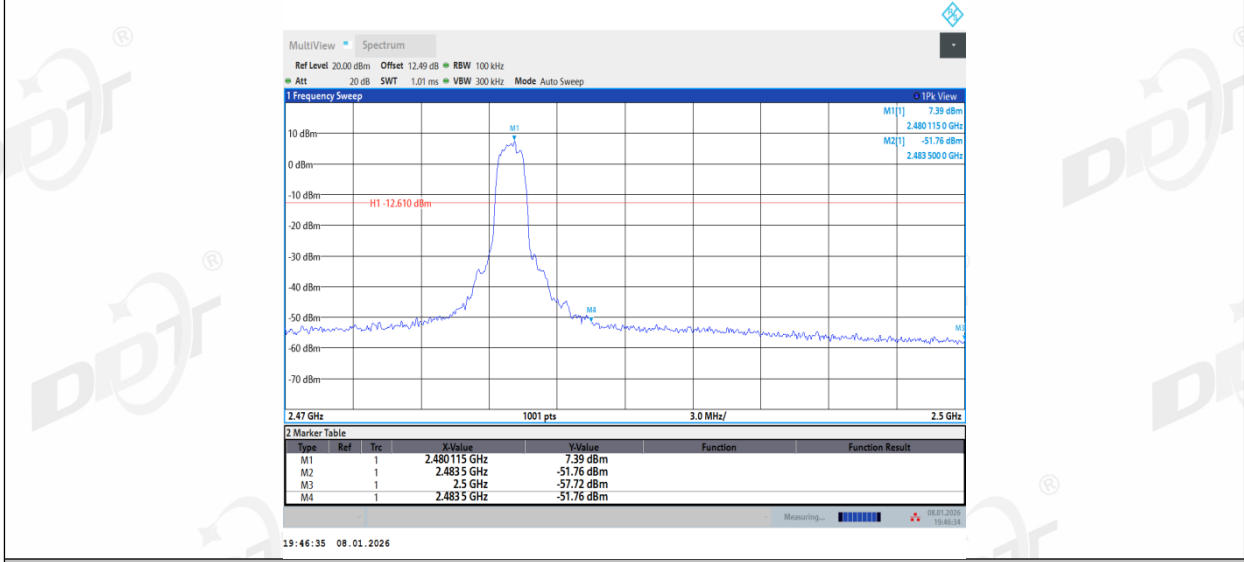
3DH5_Ant2_Low_2402



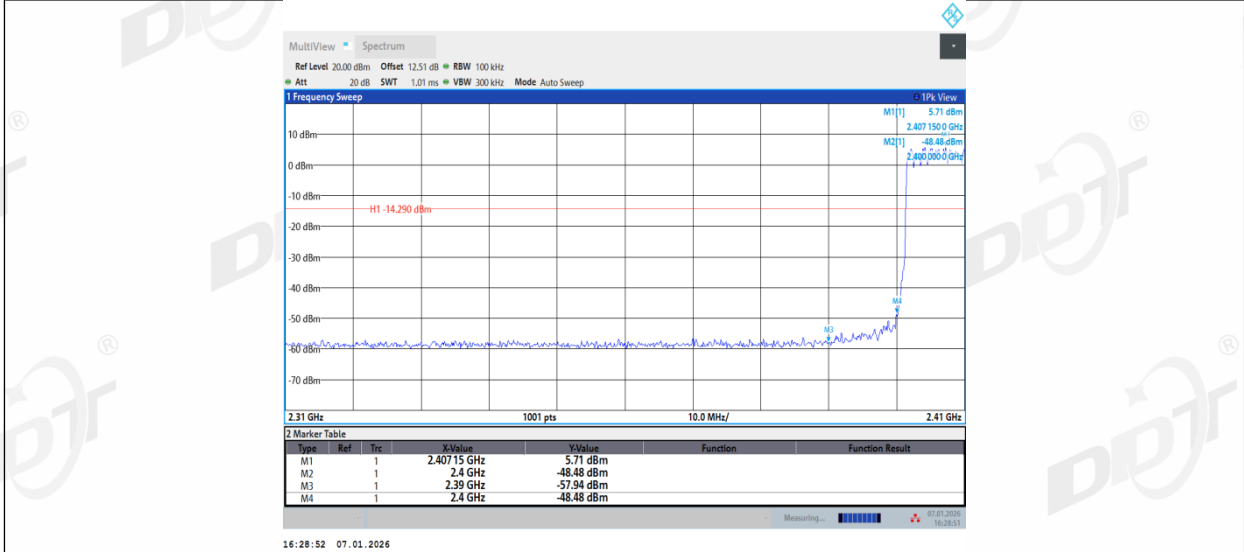
3DH5_Ant1_High_2480



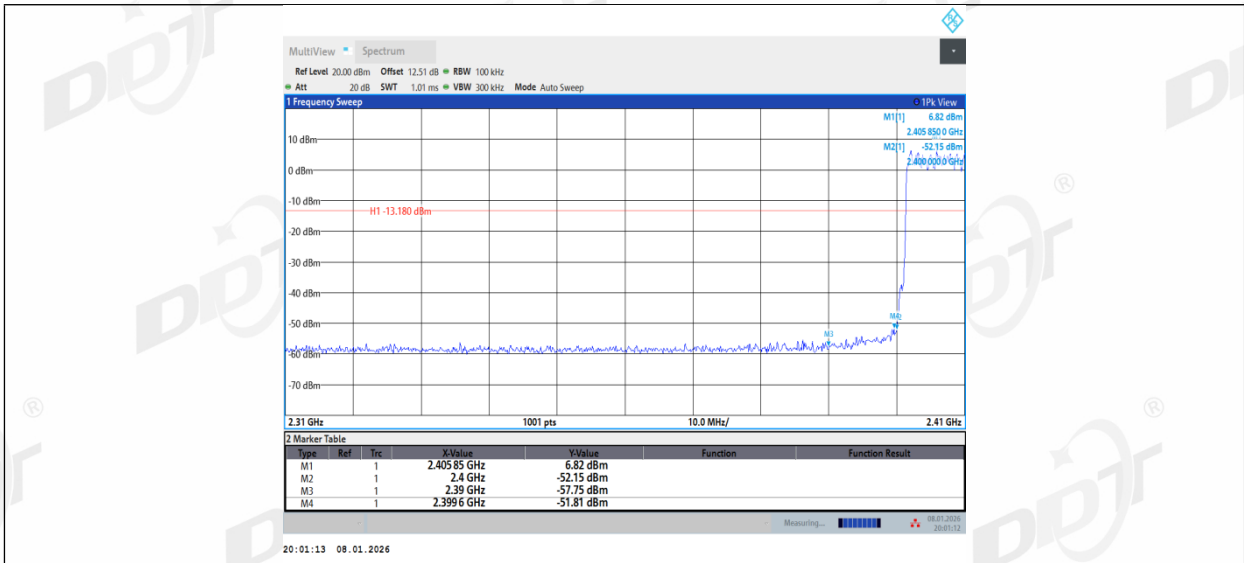
3DH5_Ant2_High_2480



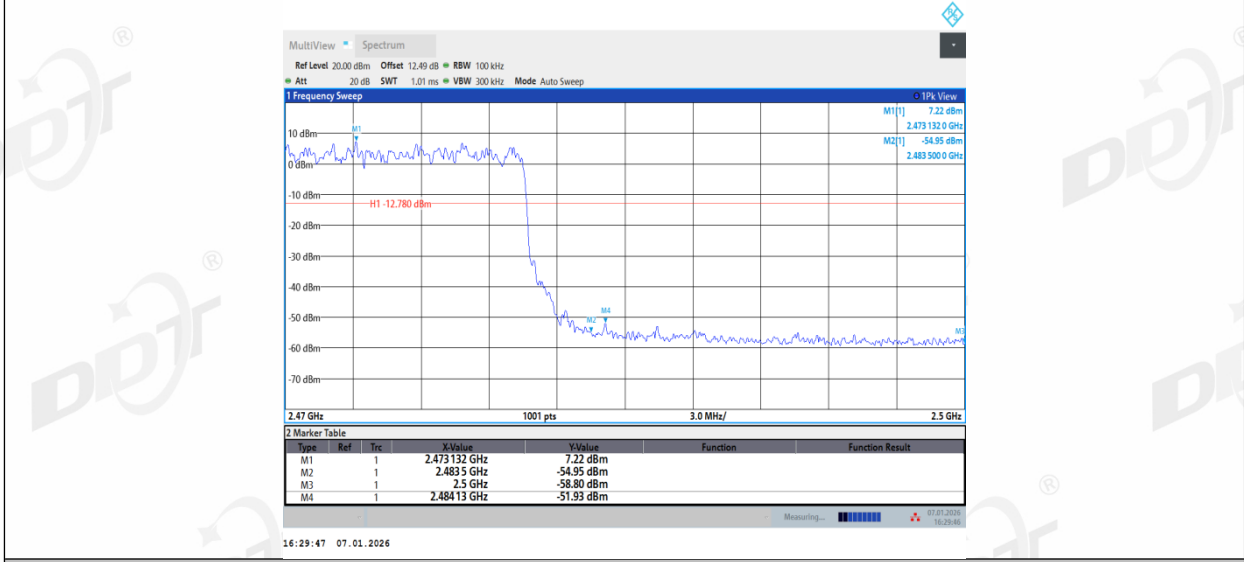
3DH5_Ant1_Low_Hop_2402



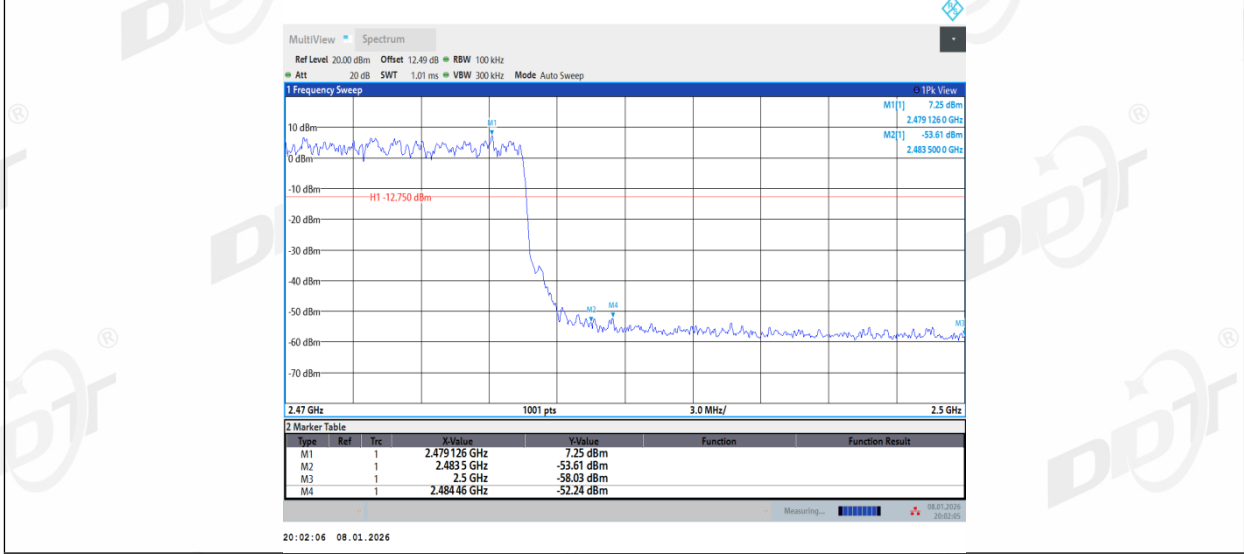
3DH5_Ant2_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

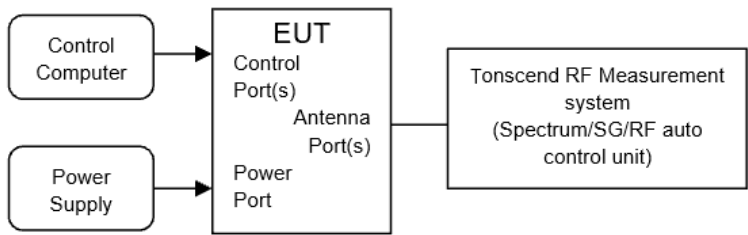


3DH5_Ant2_High_Hop_2480



11. RF Conducted Spurious Emissions

11.1. Block diagram of test setup



11.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

11.3. Test procedure

- (1) Connect EUT's antenna output to spectrum analyzer by RF cable.
 - (2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
 - (3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.
 - (4) Set the spectrum analyzer as follows:

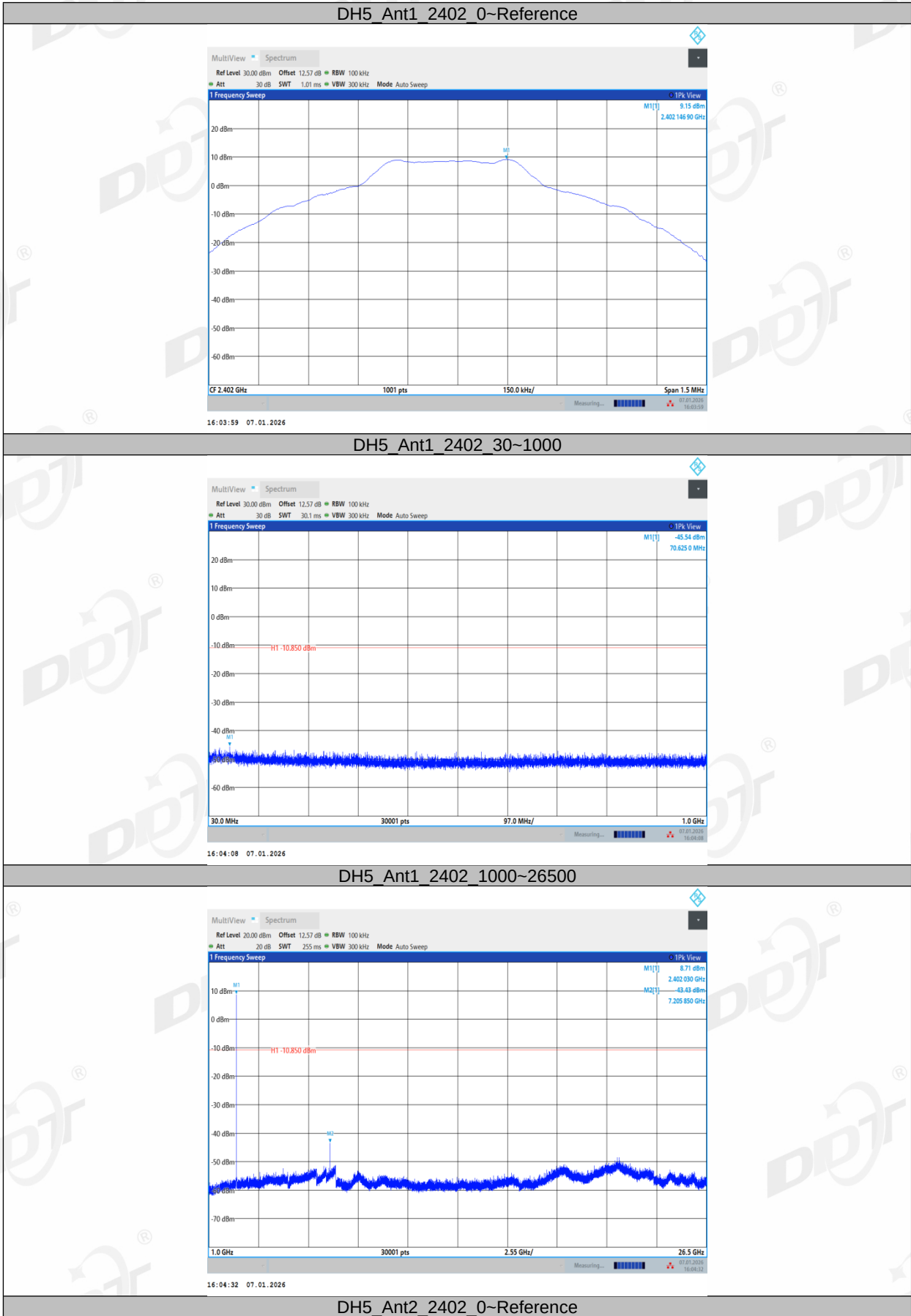
RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{Span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	Auto
Trace mode	Max hold
- Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

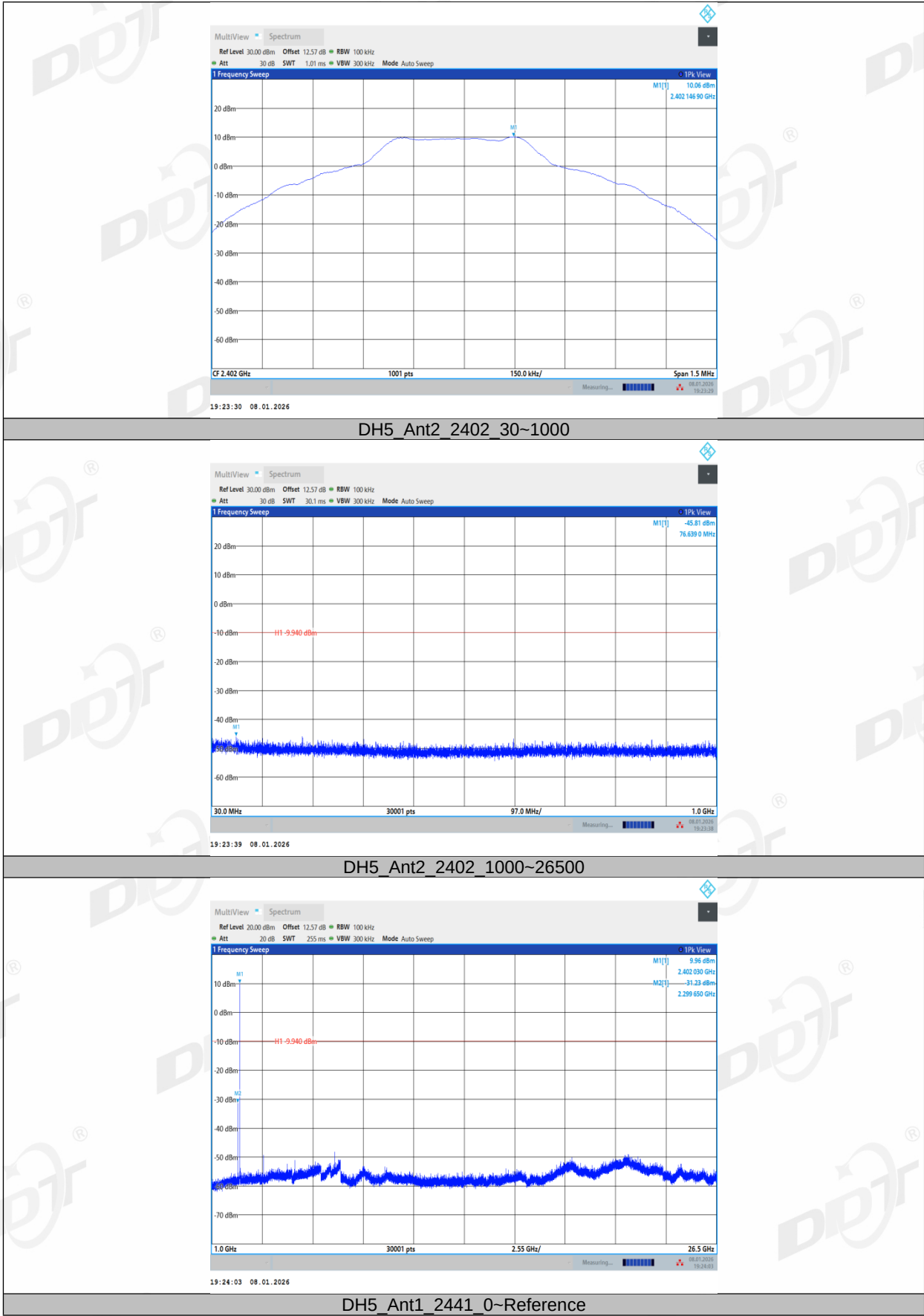
11.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.1-26.5℃,37.1-45.2%RH	Test Date:	2026.01.07-2026.01.16
Test Power Supply:	Battery	Sample Number:	S25103113-004

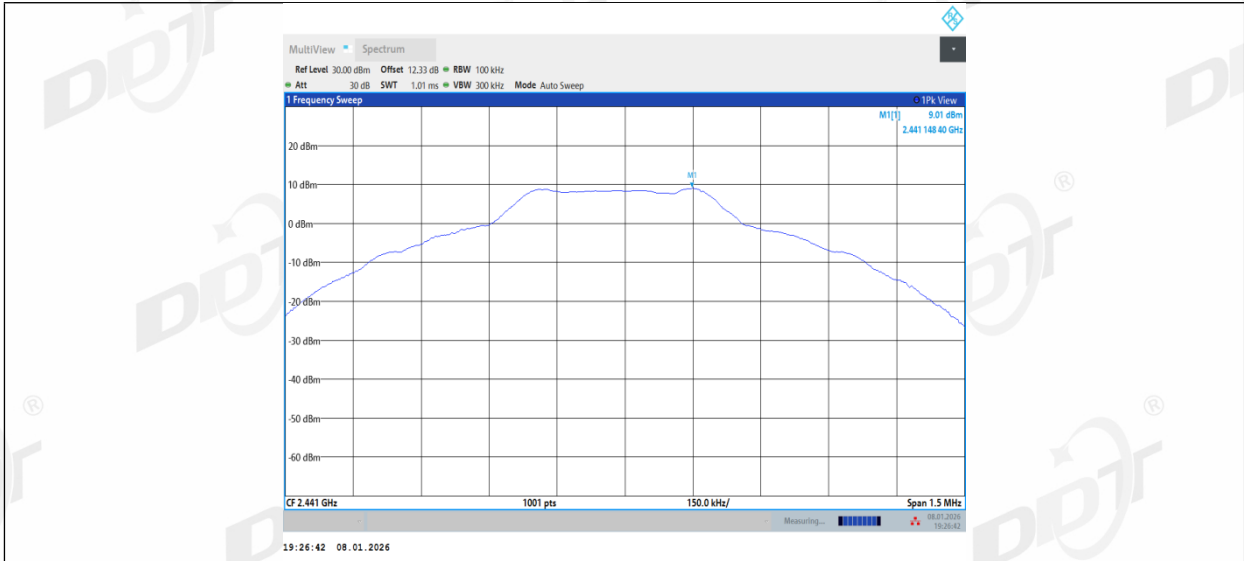
Mode	Freq. (MHz)	Verdict
GFSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
$\pi/4$ -DQPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass
8DPSK	Hopping off 2402	Pass
	Hopping off 2441	Pass
	Hopping off 2480	Pass

11.5. Test graphs

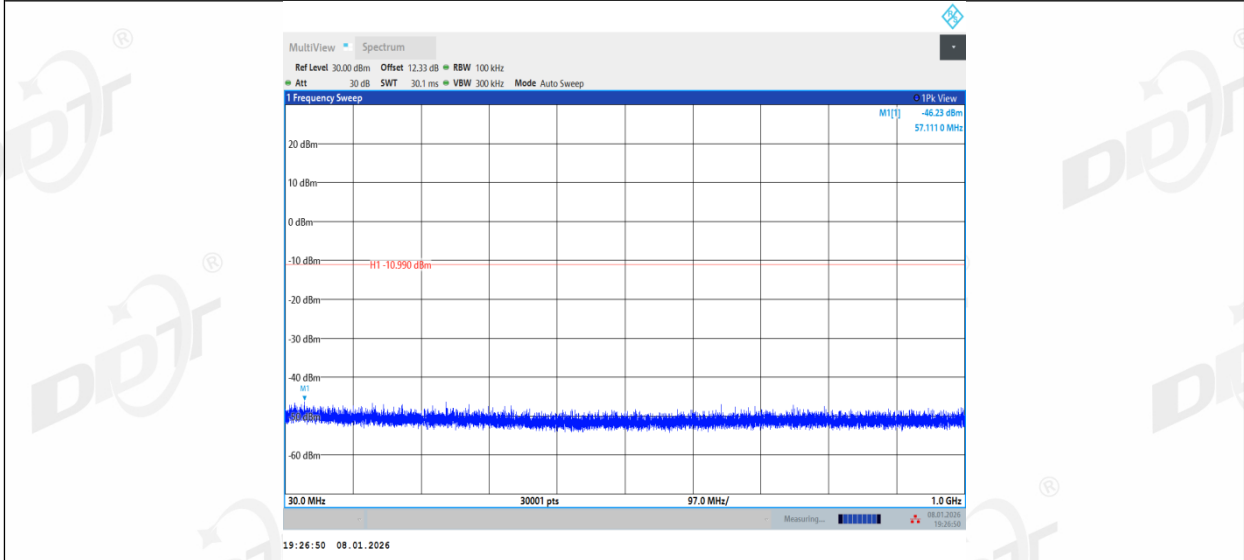




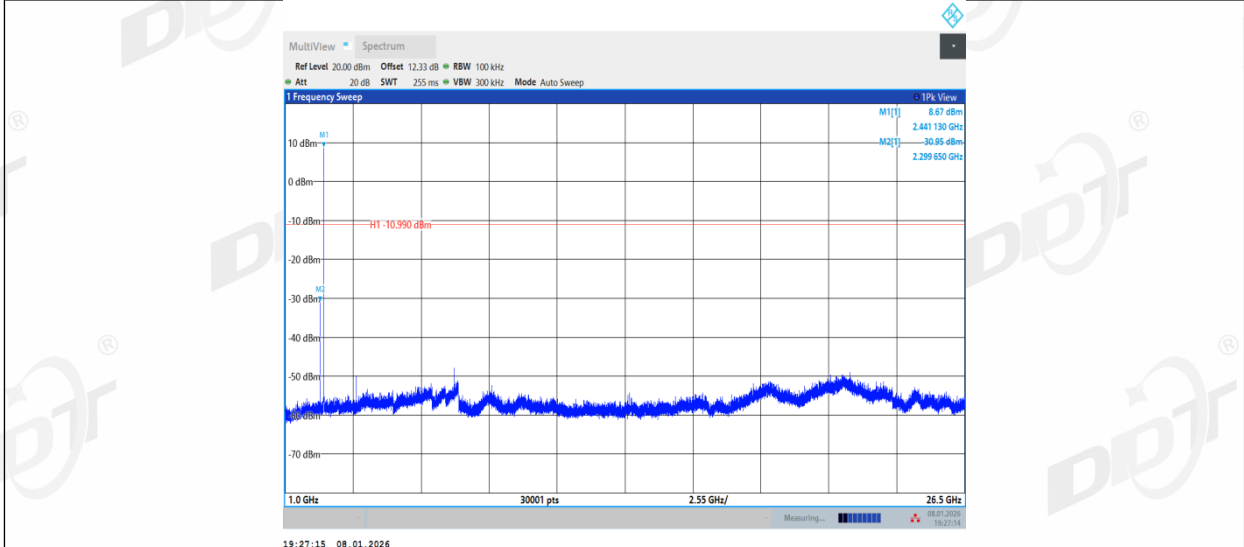




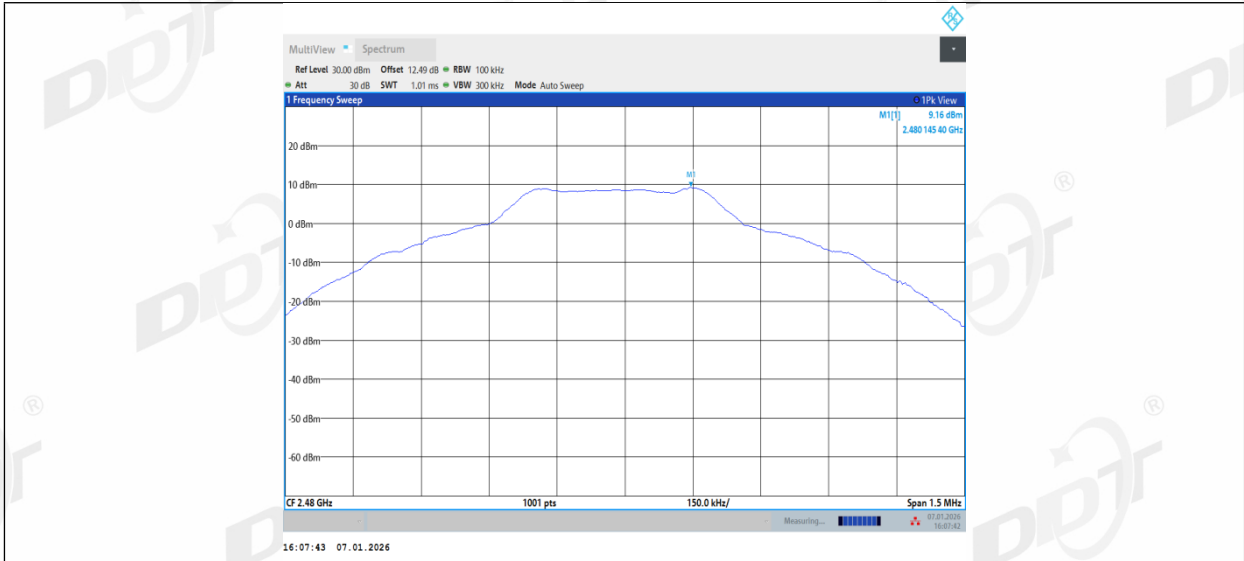
DH5_Ant2_2441_30~1000



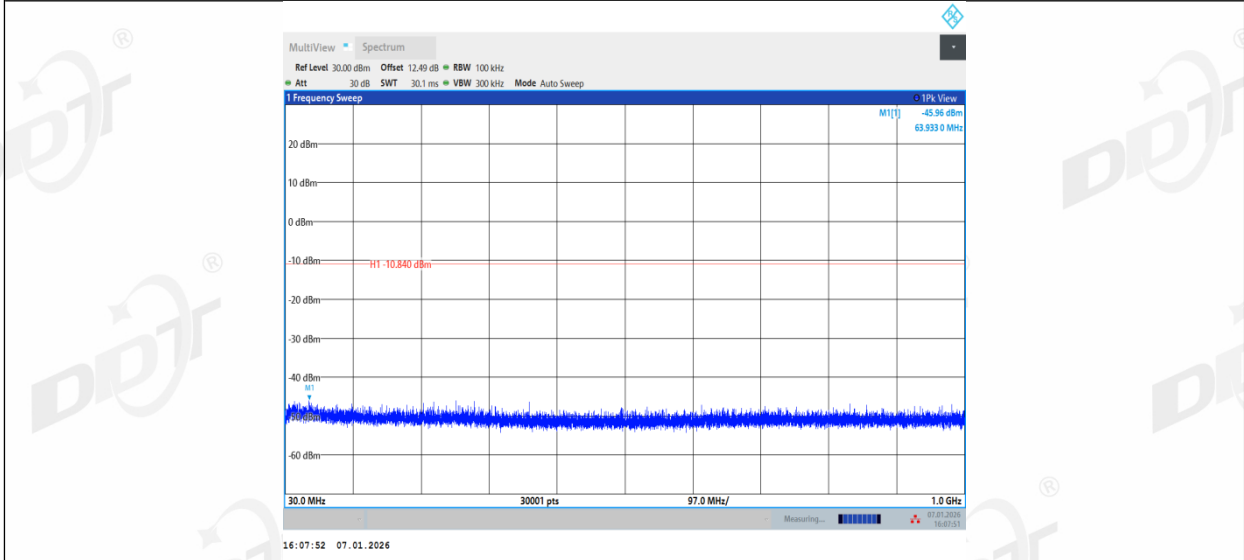
DH5_Ant2_2441_1000~26500



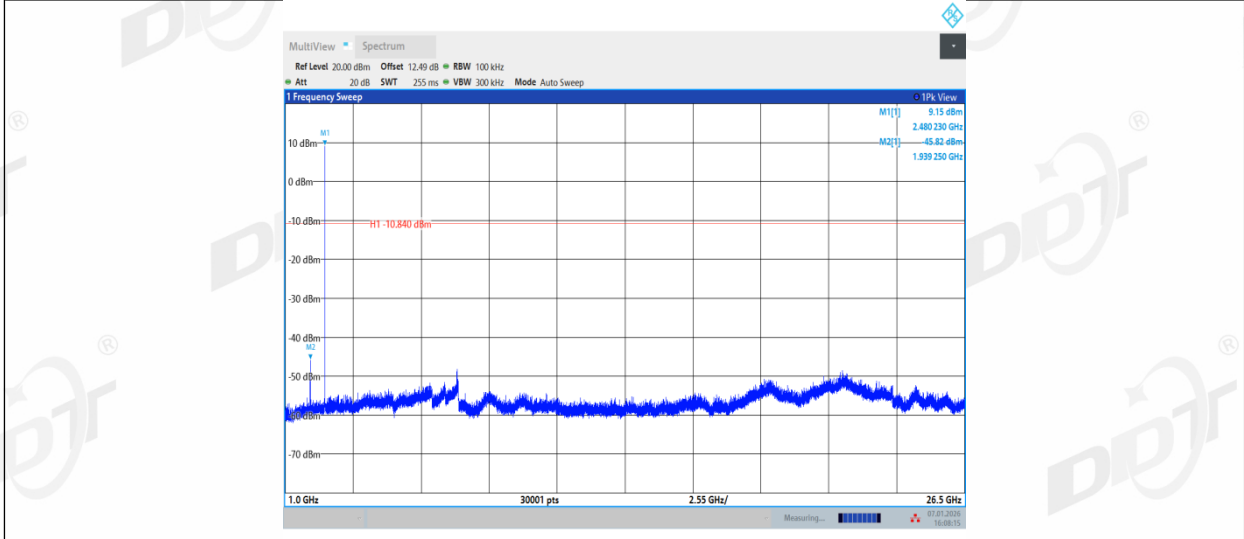
DH5_Ant1_2480_0~Reference



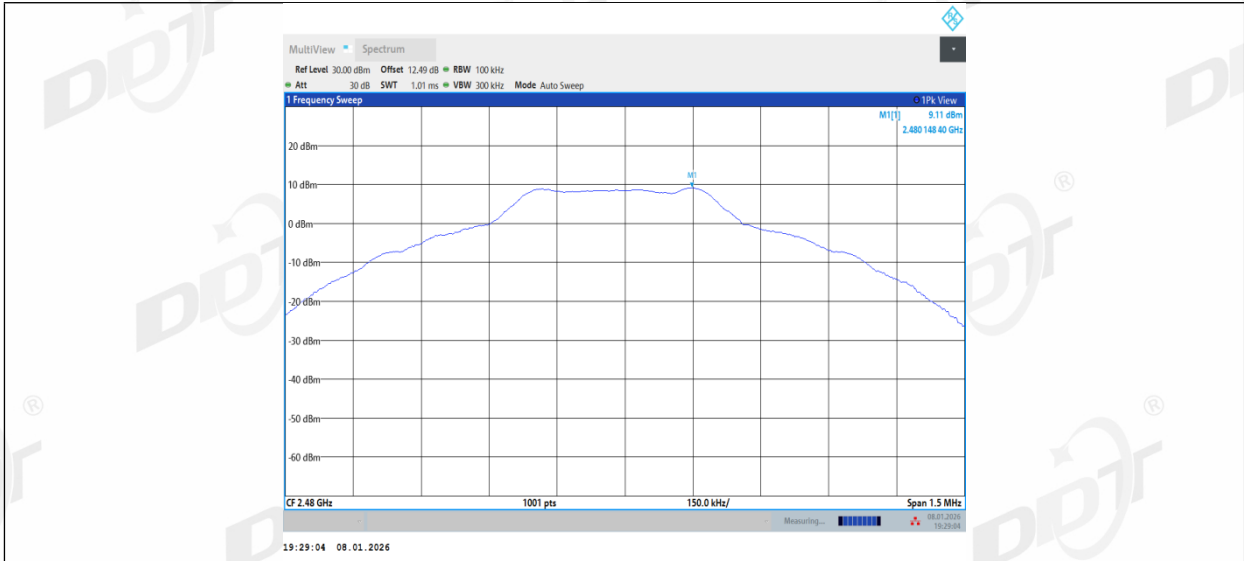
DH5_Ant1_2480_30~1000



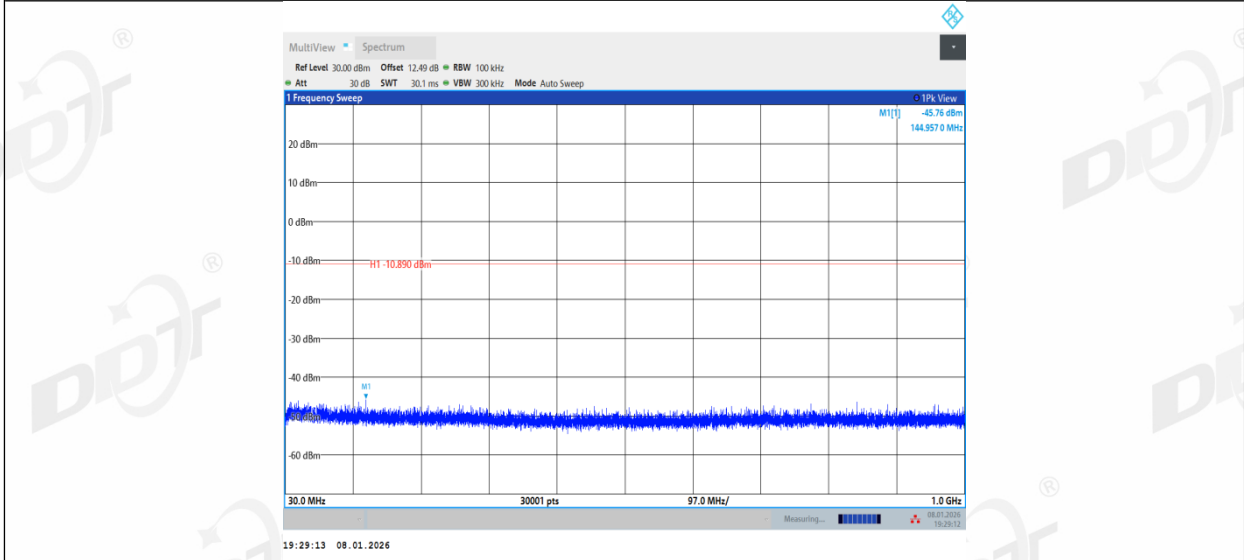
DH5_Ant1_2480_1000~26500



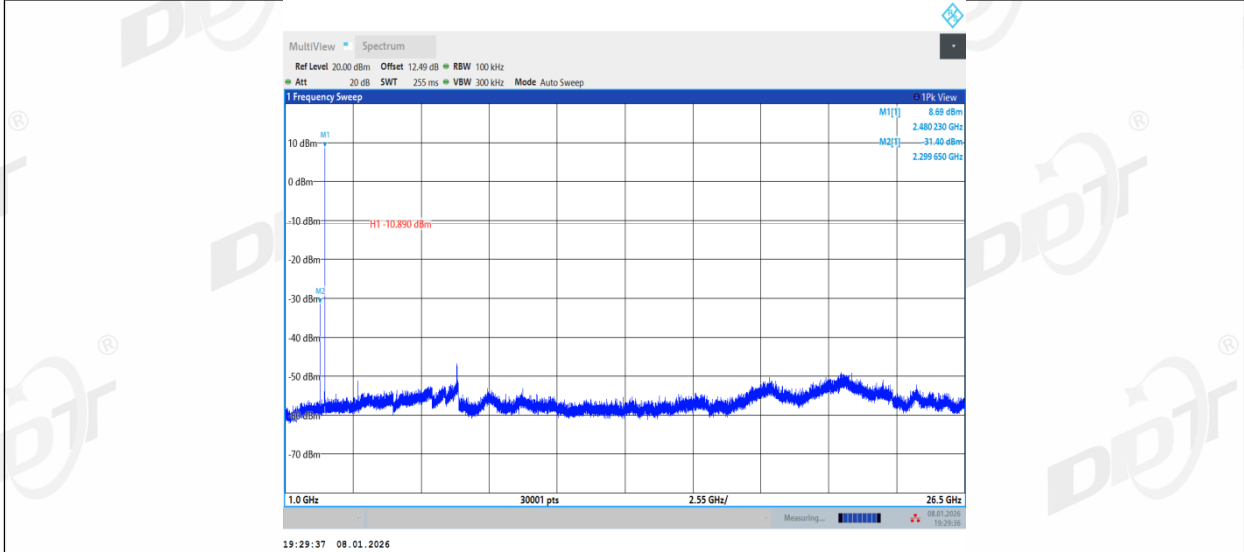
DH5_Ant2_2480_0~Reference



DH5_Ant2_2480_30~1000



DH5_Ant2_2480_1000~26500



2DH5_Ant1_2402_0~Reference







