



FCC 47 CFR PART 15 SUBPART C 15.247 TEST REPORT

FOR

UFO Lamp

Model : WH1, WH2, WH3

Issued to

**Wantai Lighting Co., Ltd.
NO. 37, SHANXI 5TH ST., NORTH DIST., TAICHUNG CITY 404038,
TAIWAN(R.O.C.)**

Issued by

WH Technology Corp.



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1. General Information

Applicant : Wantai Lighting Co., Ltd.
Address : NO. 37, SHANXI 5TH ST., NORTH DIST., TAICHUNG CITY
404038, TAIWAN(R.O.C.)
Manufacturer : Wantai Lighting Co., Ltd.
Address : NO. 37, SHANXI 5TH ST., NORTH DIST., TAICHUNG CITY
404038, TAIWAN(R.O.C.)
EUT : UFO Lamp
Model Name : WH1
Series Model(s): : WH2, WH3
Model difference : The only difference between the models is their
appearance; all other internal components, including the
circuit board structure and circuitry, are identical.

Is here with confirmed to comply with the requirements set out in the FCC Rules and Regulations Part 15 Subpart C and the measurement procedures were according to ANSI C63.10-2020. The said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

FCC part 15 subpart C

Receipt Date : 04/23/2026

Final Test Date : 08/03/2026

Tested By:

Reviewed by:

Aug. 04, 2026
Date


Bing Zhang / Project Engineer

Aug. 04, 2026
Date


Bell Wei / Manager
Designation Number: TW2954
Test Firm Registration Number: 749714



2. Report of Measurements and Examinations

2.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.203	Antenna Requirement	Pass
15.207	Conducted Emission	Pass
15.209	Radiated Emission	Pass
15.247(a)(1)	Channel Carrier Frequencies Separation	Pass
15.247(a)(1)	20dB Bandwidth Measurement	Pass
15.247(a)(1)	Dwell Time	Pass
15.247(a)(1)(III)	Number of Hopping Channels	Pass
15.247(b)	Peak Output Power Measurement Data	Pass
15.247(d)	Band Edges Measurement Data	Pass



3. Test Configuration of Equipment under Test

3.1 Description of the Tested Samples

EUT Name : UFO Lamp

Model Number : WH1

Series Model(s): : WH2, WH3

FCC ID : 2BV8DWANTAIWHN

Receipt Date : 04/23/2026

EUT Power Rating : DC 5V/DC 3.7V

Operate Frequency : Refer to the channel list as described below
(2402 ~ 2480 MHz)

Modulation Technique : GFSK, $\pi/4$ -DQPSK, 8DPSK

Number of Channels : 79

Channel Spacing : 1 MHz

Operating Mode : ☐ Simplex ☒ Duplex

Antenna Type : PCB Antenna

Antenna Gain : -0.58 dBi



3.2 Carrier Frequency of Channels

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	---	---

3.3 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10-2020.
- The complete test system included Notebook and EUT for RF test.
- An executive "FCC_assist_1.0.2.2"(Power setting:6) under WIN10 was executed to keep transmitting and receiving data via Wireless.
- The following test modes were performed for test:
 - GFSK: CH00: 2402MHz, CH39: 2441MHz, CH78: 2480MHz
 - $\pi/4$ -DQPSK: CH00: 2402MHz, CH39: 2441MHz, CH78: 2480MHz
 - 8DPSK: CH 00: 2402MHz, CH 39: 2441MHz, CH 78: 2480MHz.



3.4 Test Methodology & General Test Procedures

All testing as described bellowed were performed in accordance with ANSI C63.10-2020 and FCC CFR 47 Part 15 Subpart C.

Conducted Emissions

The EUT is placed on a wood table, which is at 0.8 m above ground plane acceding to clause 15.207 and requirements of ANSI C63.10-2020. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz are using CISPR Quasi-Peak / Average detectors.

Radiated Emissions

The EUT is a placed on a turn table, which is 0.8 m above ground plane. The turntable was rotated through 360 degrees to determine the position of maximum emission level. The EUT is placed at 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

- 1) Putting the EUT on the platform and turning on the EUT (on/off button on the bottom of the EUT).
- 2) Setting test channel described as "Channel setting and operating condition", and testing channel by channel.
- 3) For the spurious emission test based on ANSI(2020), at the frequency where below 1GHz used quasi-peak detector mode; where above 1GHz used the peak and average detector mode. IF the peak value may be under average limit, the average mode will not be performed.



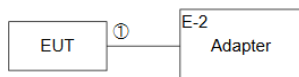
3.5 Measurement Uncertainty

Measurement Item	Uncertainty
Radiated emission	$\pm 4.11\text{dB}$
Peak Output Power (Conducted)	$\pm 1.38\text{dB}$
Peak Output Power (Radiated)	$\pm 1.70\text{dB}$
Power Spectral Density	$\pm 1.39\text{dB}$
Radiated emission (3m)	$\pm 4.11\text{dB}$
Radiated emission (10m)	$\pm 3.89\text{dB}$

3.6 Description of the Support Equipments

Setup Diagram

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Support Equipment

The WH1 has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

OUTSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord/ LAN Cable
②	RF cable	N/A	N/A	N/A	N/A	Unshielded 0.2m	N/A
E-1	Notebook	20SL	LR0DA6TH	R33B65	Lenovo	N/A	Unshielded 1.8m
E-2	Adapter	P1214C	NA	R35188	UKKO	N/A	N/A
INSIDE SUPPORT EQUIPMENT							
No.	Equipment	Model	Serial No.	FCC ID/ BSMI ID	Trade name	Data Cable	Power Cord
①	Type-C Cable	XYX-C- CC60-1M	N/A	N/A	XYX	Shielded 1m	N/A



-
- Note:** (1) All the above equipment /cable were placed in worse case position to maximize emission signals during emission test.
- (2) Grounding was in accordance with the manufacturer's requirement and conditions for the intended use.



4. Test and Measurement Equipment

4.1 Calibration

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

4.2 Equipment

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other required standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective.

**TABLELIST OF TEST AND MEASUREMENT EQUIPMENT**

Conducted emission					
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date	Remark
EMI Test Receiver	PMM	9010F	190ZW40510	2027/01/11	1 Year
Two-Line V-Network	R&S	NNB-2/16z	98062	2027/04/13	1 Year
Test Cable	N/A	N/A	WH-CON03	2027/04/06	1 Year
Measurement Software	AUDIX	e3	230427 wh,V9	N/A	N/A
Radiated emission Below 1 GHz					
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date	Remark
Bilog antenna	Schwarzbeck	VULB 9168	01712	2026/09/10	1 Year
LOOP Antenna	COM-POWER	AL-130	17117	2027/04/27	1 Year
Pre-amplifier	EMCI	EMC9135	980334	2027/03/27	1 Year
Cable	EMCI	N male on end of both sides (EMI4)	30m	2027/04/06	1 Year
Receiver	R&S	ESVS30	826006/002	2027/03/11	1 Year
Spectrum Analyzer	R&S	FSP7	830180/009	2027/03/16	1 Year
Measurement Software	AUDIX	e3	V6.101222a	N/A	N/A
Radiated emission Above 1 GHz					
Instrument	Manufacturer	Model No.	Serial No.	Cali Due Date	Remark
Horn antenna	ETS LINDGREN	3117	00114397	2026/10/02	1 Year
Horn antenna	com-power	AH-826	81000	2026/10/06	1 Year
Horn antenna	Schwarzbeck	BBHA9170	#687	2026/07/01	1 Year
Pre-amplifier	EMCI	EMC051845	980108	2026/06/19	1 Year
Pre-amplifier	MITEQ	JS4-18002600-30-5A	808329	2026/09/18	1 Year
Pre-amplifier	EMC INSTRUMENT	EMC264035SE	980288	2026/06/19	1 Year
RF CABLE	SUCOFLEX	104PEA	33957/4PEA	2026/09/18	1 Year
RF CABLE	AGILENT	EMC102-KM-KM-3000	160101	2026/09/18	1 Year
RF CABLE	AGILENT	EMC102-KM-KM-600	160102	2026/09/18	1 Year
Spectrum Analyzer	R&S	FSP7	830180/009	2027/03/16	1 Year
Spectrum Analyzer	AGILENT	N9010A	MY51280195	2027/03/16	1 Year
Spectrum Analyzer	ADVANTEST	R3182	150900201	2027/03/16	1 Year
Measurement Software	AUDIX	e3	V6.101222a	N/A	N/A

***CALIBRATION INTERVAL OF INSTRUMENTS LISTED ABOVE IS ONE YEAR.**



5. Antenna Requirements

5.1 Standard Applicable

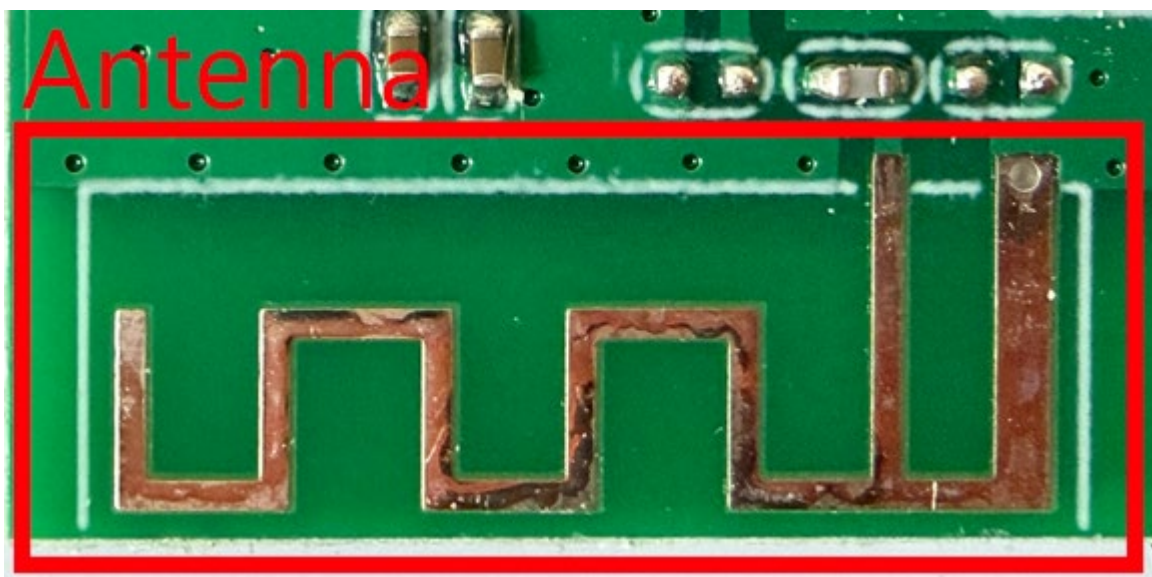
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.2 Antenna Construction and Directional Gain

Antenna Type: PCB Antenna

Antenna Gain: -0.58 dBi





6. Test of Conducted Emission

6.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2020 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66 – 56*	56 – 46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

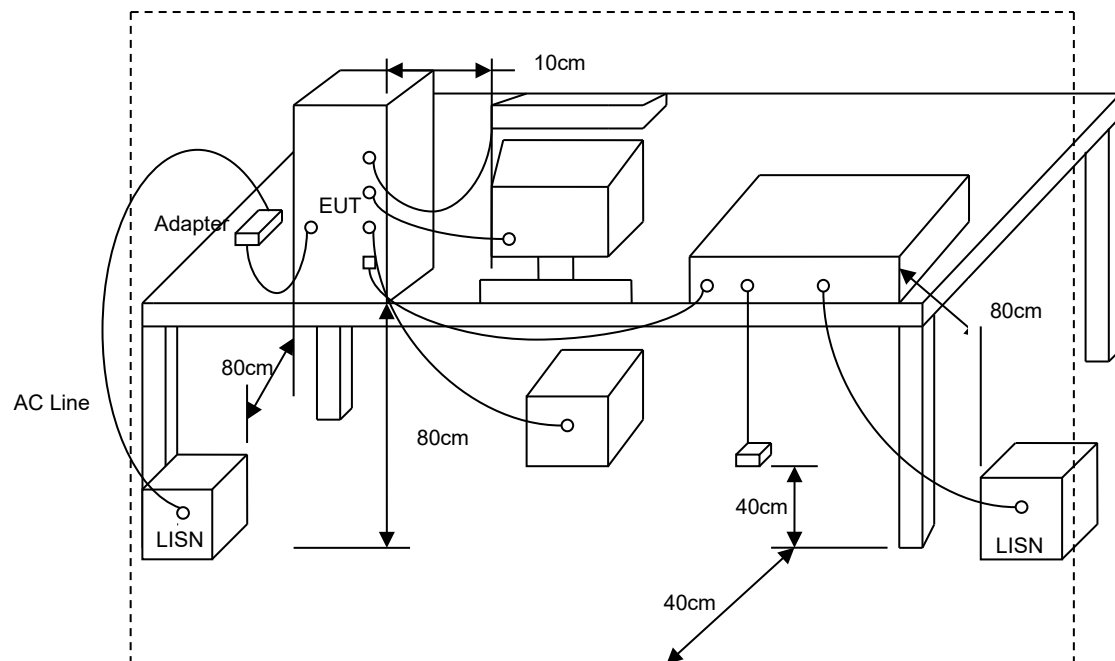
*Decreases with the logarithm of the frequency.

6.2 Test Procedures

- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system and using CISPR Quasi-Peak / Average detectors and Specified Bandwidth with Maximum Hold Mode.
- RBW=9kHz. VBW=30kHz.



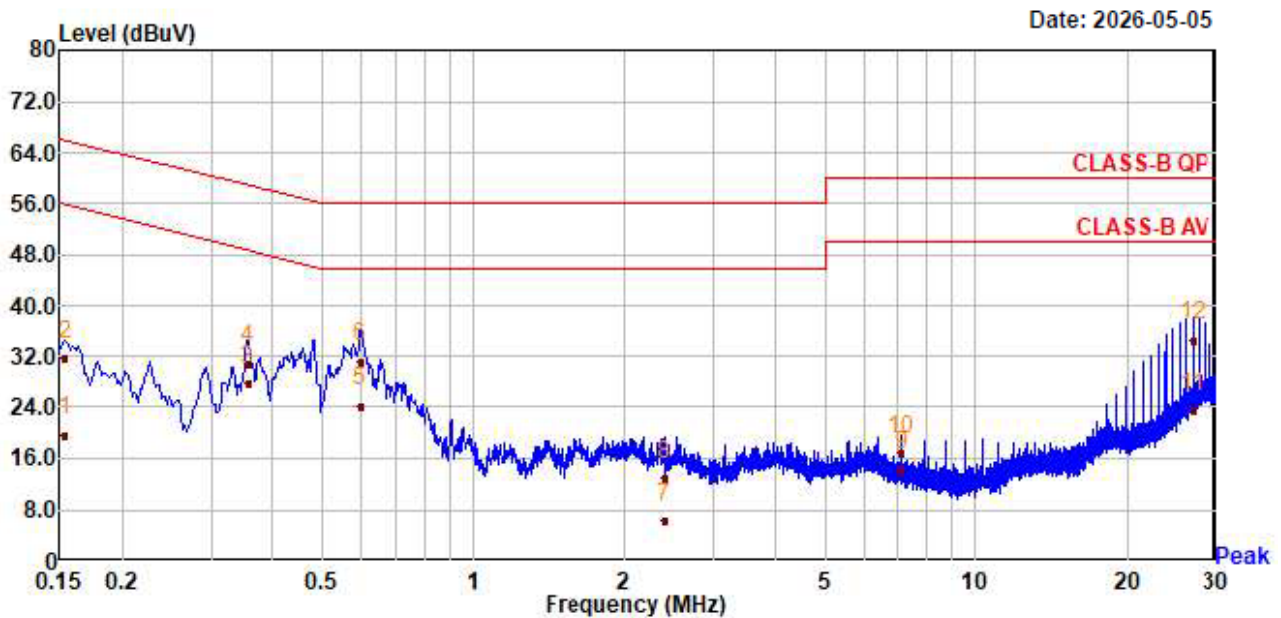
6.3 Typical Test Setup





6.4 Test Result and Data

Power	: DC 5V	Pol/Phase	: LINE
Temperature	: 23.7 °C	Humidity	: 57 %



Result	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.15	19.61	0.14	19.75	55.78	-36.03	Average
2	0.15	31.44	0.14	31.58	65.78	-34.20	QP
3 @	0.35	27.61	0.16	27.77	48.86	-21.09	Average
4	0.35	30.76	0.16	30.92	58.86	-27.94	QP
5	0.60	24.04	0.17	24.21	46.00	-21.79	Average
6	0.60	31.02	0.17	31.19	56.00	-24.81	QP
7	2.40	6.03	0.23	6.26	46.00	-39.74	Average
8	2.40	12.71	0.23	12.94	56.00	-43.06	QP
9	7.13	13.93	0.33	14.26	50.00	-35.74	Average
10	7.13	16.51	0.33	16.84	60.00	-43.16	QP
11	26.92	22.96	0.57	23.53	50.00	-26.47	Average
12	26.92	33.97	0.57	34.54	60.00	-25.46	QP

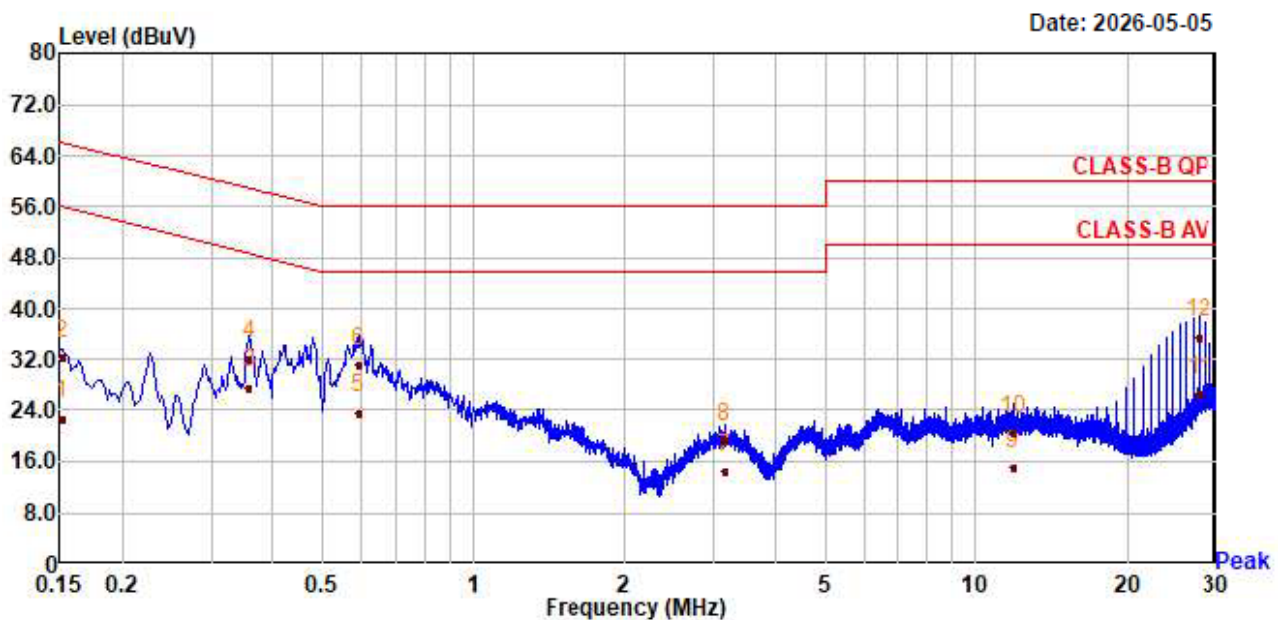
Remark: Over Limit = Level – Limit

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Power	: DC 5V	Pol/Phase	: NEUTRL
Temperature	: 23.7 °C	Humidity	: 57 %



Result	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.15	22.60	0.13	22.73	55.89	-33.16	Average
2	0.15	32.15	0.13	32.28	65.89	-33.61	QP
3 @	0.36	27.34	0.15	27.49	48.81	-21.32	Average
4	0.36	31.90	0.15	32.05	58.81	-26.76	QP
5	0.59	23.45	0.15	23.60	46.00	-22.40	Average
6	0.59	30.83	0.15	30.98	56.00	-25.02	QP
7	3.17	14.19	0.24	14.43	46.00	-31.57	Average
8	3.17	18.97	0.24	19.21	56.00	-36.79	QP
9	11.88	14.63	0.39	15.02	50.00	-34.98	Average
10	11.88	20.13	0.39	20.52	60.00	-39.48	QP
11	27.72	25.96	0.55	26.51	50.00	-23.49	Average
12	27.72	34.91	0.55	35.46	60.00	-24.54	QP

Remark: Over Limit = Level – Limit

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



7. Test of Radiated Emission

7.1 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/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
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3



7.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.
- j. Use the following spectrum analyzer settings:

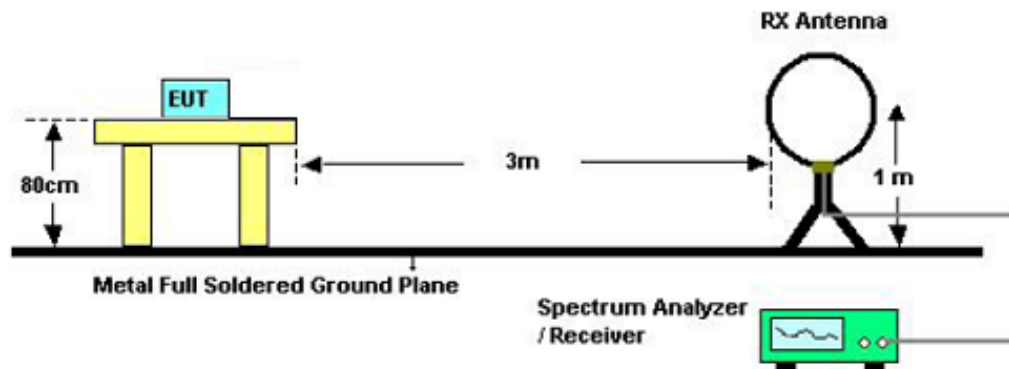
Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

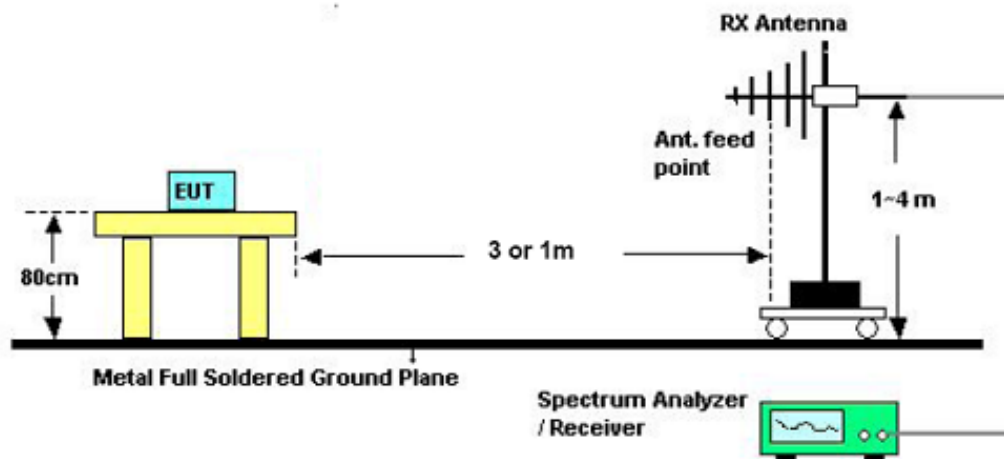


7.3 Typical Test Setup

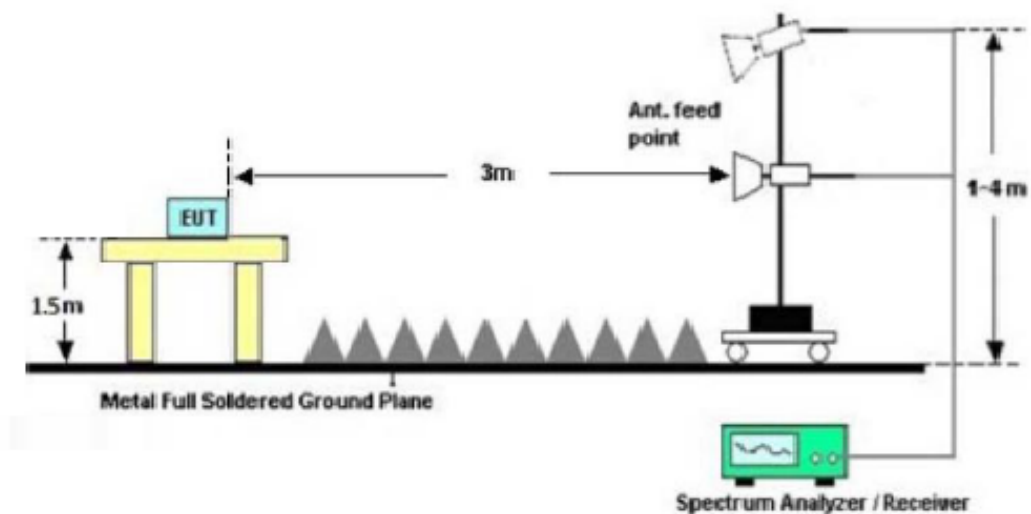
For radiated emissions below 30MHz



For radiated emissions above 30MHz



For radiated emissions above 1GHz





7.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

7.5 Test Result and Data (worst emissions found)

Power	:	DC 3.7V	Test Date	:	2026/05/19
Temperature	:	28 °C	Humidity	:	68 %

GFSK Channel 0						Fundamental Frequency: 2402 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4804.00	H	53.65	-9.24	44.41	Peak	74	54	-29.59
---	H	---	---	---	Ave	74	54	---
4804.00	V	53.71	-9.24	44.47	Peak	74	54	-29.53
---	V	---	---	---	Ave	74	54	---

GFSK Channel 39						Fundamental Frequency: 2441 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4882.00	H	53.73	-9.14	44.59	Peak	74	54	-29.41
---	H	---	---	---	Ave	74	54	---
4882.00	V	53.77	-9.14	44.63	Peak	74	54	-29.37
---	V	---	---	---	Ave	74	54	---

GFSK Channel 78						Fundamental Frequency: 2480 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4960.00	H	53.04	-8.98	44.06	Peak	74	54	-29.94
---	H	---	---	---	Ave	74	54	---
4960.00	V	53.11	-8.98	44.13	Peak	74	54	-29.87
---	V	---	---	---	Ave	74	54	---



Power	:	DC 3.7V	Test Date	:	2026/05/19
Temperature	:	28 °C	Humidity	:	68 %

$\pi/4$ -DQPSK Channel 0						Fundamental Frequency: 2402 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4804.00	H	54.26	-9.24	45.02	Peak	74	54	-28.98
---	H	---	---	---	Ave	74	54	---
4804.00	V	54.32	-9.24	45.08	Peak	74	54	-28.92
---	V	---	---	---	Ave	74	54	---

$\pi/4$ -DQPSK Channel 39						Fundamental Frequency: 2441 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4882.00	H	54.25	-9.14	45.11	Peak	74	54	-28.89
---	H	---	---	---	Ave	74	54	---
4882.00	V	54.31	-9.14	45.17	Peak	74	54	-28.83
---	V	---	---	---	Ave	74	54	---

$\pi/4$ -DQPSK Channel 78						Fundamental Frequency: 2480 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4960.00	H	54.27	-8.98	45.29	Peak	74	54	-28.71
---	H	---	---	---	Ave	74	54	---
4960.00	V	54.32	-8.98	45.34	Peak	74	54	-28.66
---	V	---	---	---	Ave	74	54	---



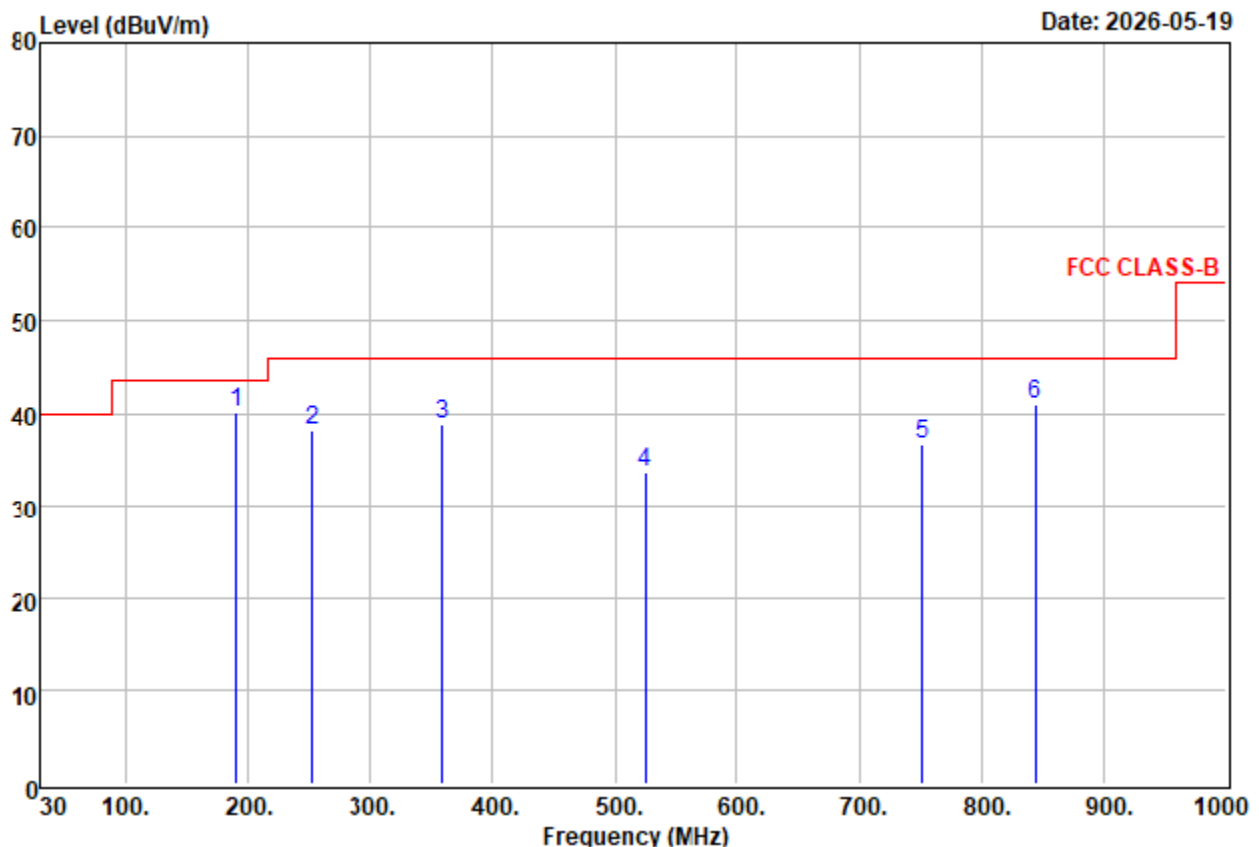
Power	:	DC 3.7V	Test Date	:	2026/05/19
Temperature	:	28 °C	Humidity	:	68 %

8DPSK Channel 0						Fundamental Frequency: 2402 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4804.00	H	54.13	-9.24	44.89	Peak	74	54	-29.11
---	H	---	---	---	Ave	74	54	---
4804.00	V	54.19	-9.24	44.95	Peak	74	54	-29.05
---	V	---	---	---	Ave	74	54	---
8DPSK Channel 39						Fundamental Frequency: 2441 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4882.00	H	54.41	-9.14	45.27	Peak	74	54	-28.73
---	H	---	---	---	Ave	74	54	---
4882.00	V	54.46	-9.14	45.32	Peak	74	54	-28.68
---	V	---	---	---	Ave	74	54	---
8DPSK Channel 78						Fundamental Frequency: 2480 MHz		
Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result (dBuV/m)	Remark	Limit (dBuV/m)		Margin (dB)
						Peak	Ave	
4960.00	H	54.34	-8.98	45.36	Peak	74	54	-28.64
---	H	---	---	---	Ave	74	54	---
4960.00	V	54.39	-8.98	45.41	Peak	74	54	-28.59
---	V	---	---	---	Ave	74	54	---



7.6 Test Result and Data (below 1GHz)

Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: GFSK: CH39		

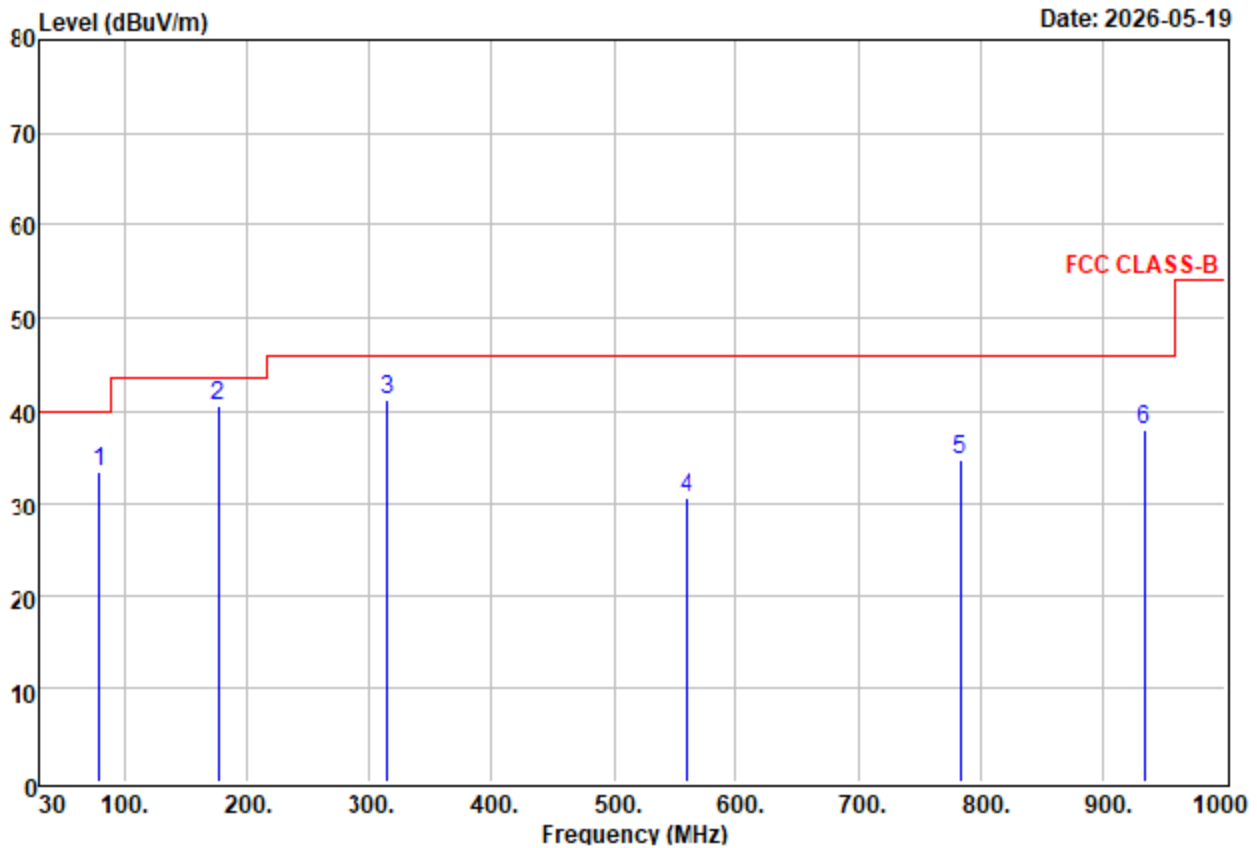


Remarks : 1.Result-Read Value|Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	189.890	56.43	-16.41	40.02	43.50	-3.48	QP
2	251.420	52.96	-14.80	38.16	46.00	-7.84	QP
3	359.560	50.51	-11.67	38.84	46.00	-7.16	QP
4	524.540	41.46	-7.69	33.77	46.00	-12.23	QP
5	751.100	39.35	-2.67	36.68	46.00	-9.32	QP
6	844.760	41.83	-0.94	40.89	46.00	-5.11	QP



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: GFSK: CH39		

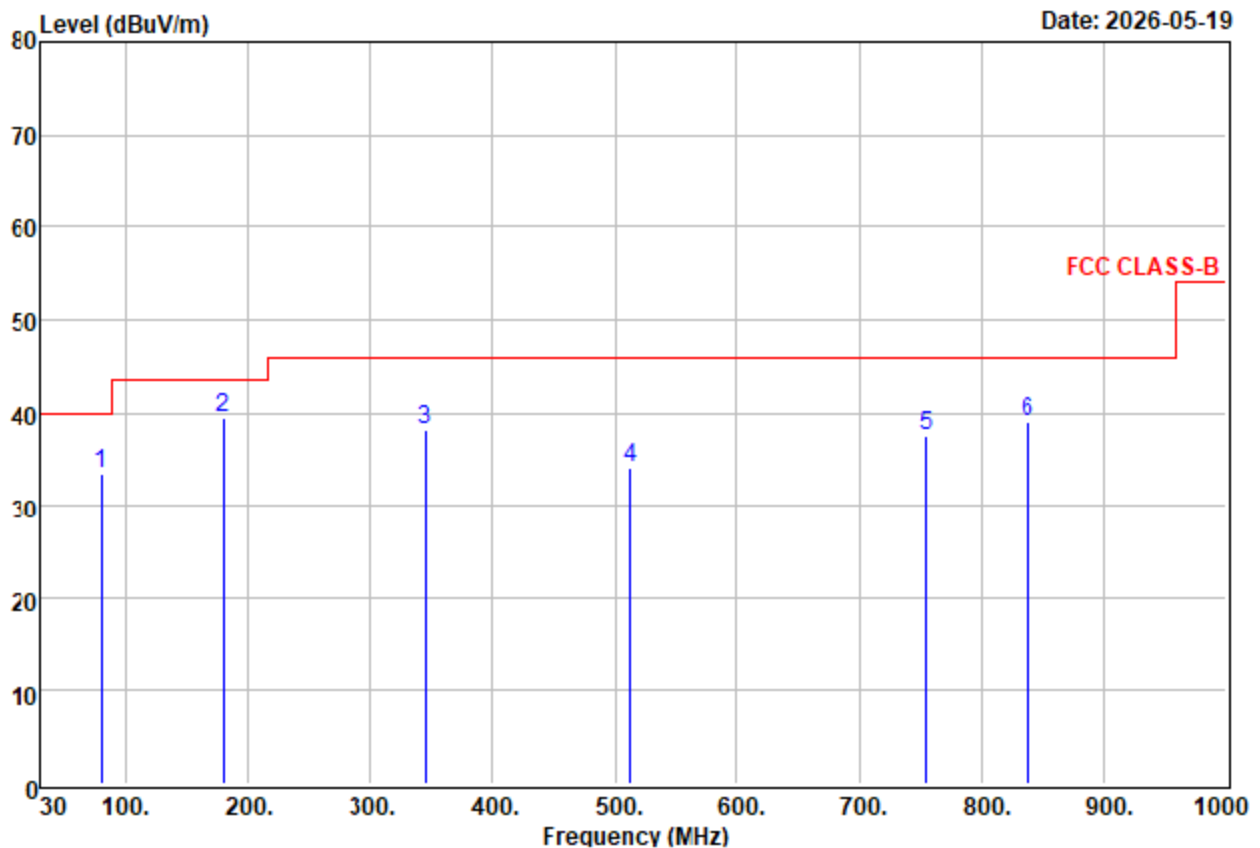


Remarks : 1.Result-Read Value×Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	78.860	53.52	-19.97	33.55	40.00	-6.45	QP
2	@ 176.290	55.73	-15.25	40.48	43.50	-3.02	QP
3	315.040	53.90	-12.72	41.18	46.00	-4.82	QP
4	559.150	37.34	-6.72	30.62	46.00	-15.38	QP
5	783.400	37.10	-2.41	34.69	46.00	-11.31	QP
6	934.340	37.58	0.48	38.06	46.00	-7.94	QP



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: $\pi/4$ -DQPSK: CH78		

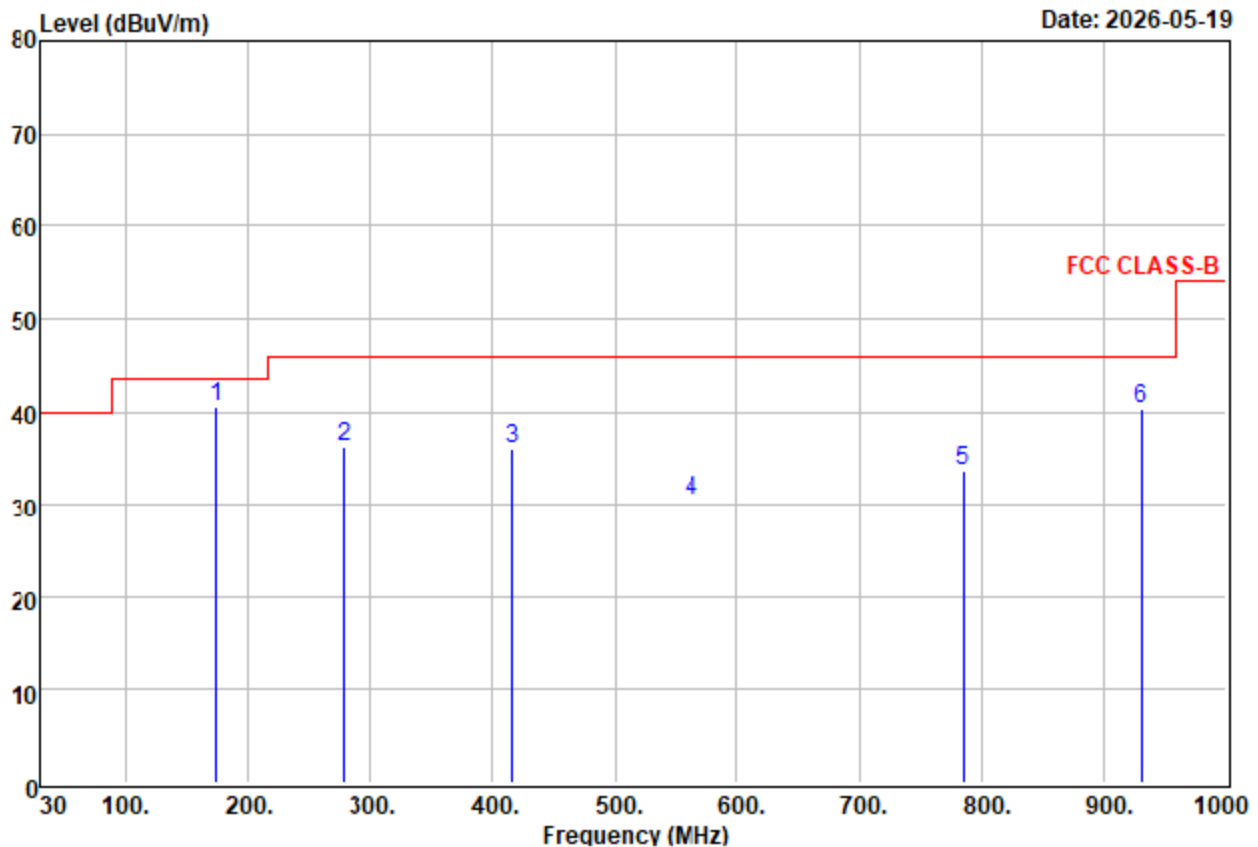


Remarks : 1.Result=Read Value÷Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Freq	Read Level	Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	80.440	53.78	-20.34	33.44	40.00	-6.56	QP
2 @	178.960	54.97	-15.56	39.41	43.50	-4.09	QP
3	345.700	50.26	-12.00	38.26	46.00	-7.74	QP
4	511.980	42.03	-7.91	34.12	46.00	-11.88	QP
5	754.380	40.08	-2.49	37.59	46.00	-8.41	QP
6	838.220	40.27	-1.26	39.01	46.00	-6.99	QP



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: $\pi/4$ -DQPSK: CH78		

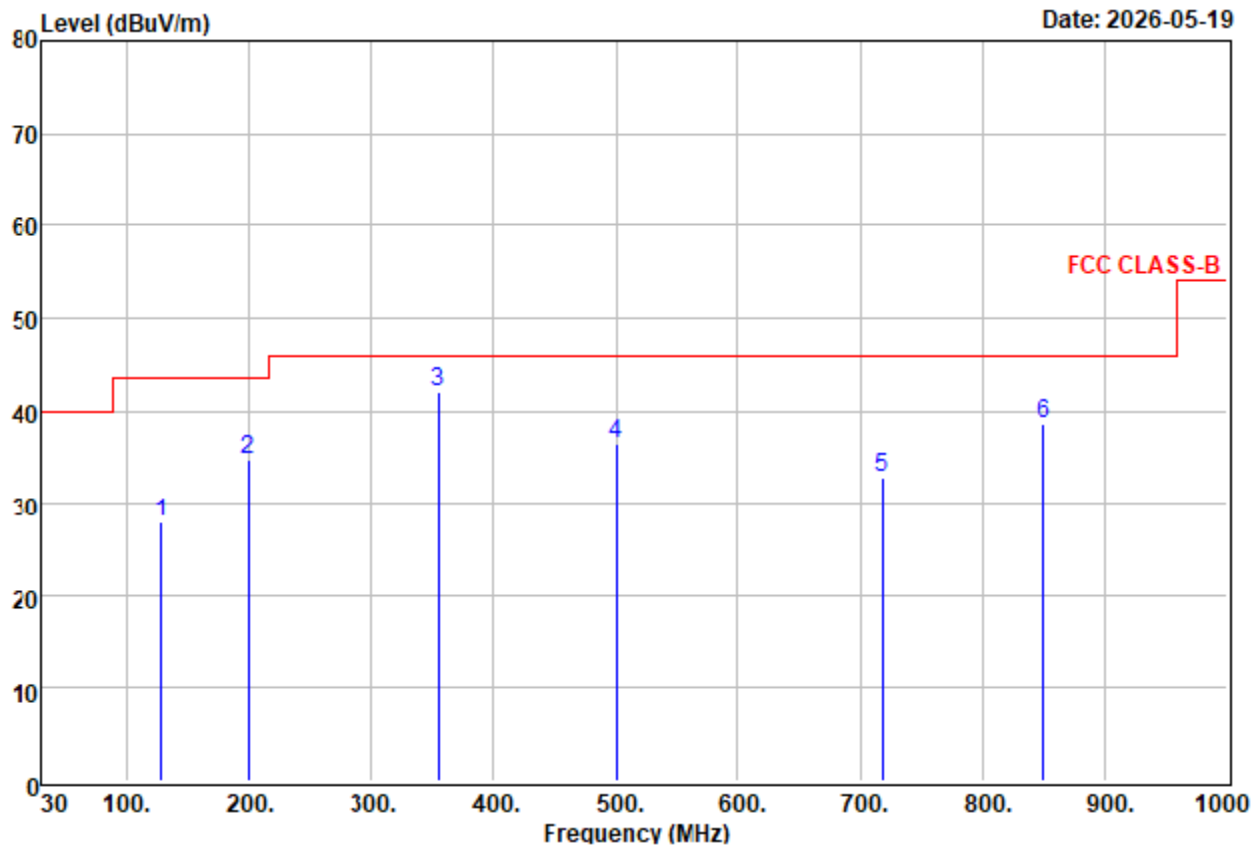


Remarks : 1.Result=Read Value÷Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	173.850	55.58	-14.99	40.59	43.50	-2.91 QP
2	277.830	50.17	-13.82	36.35	46.00	-9.65 QP
3	416.130	46.20	-10.14	36.06	46.00	-9.94 QP
4	562.760	37.14	-6.61	30.53	46.00	-15.47 QP
5	784.900	36.05	-2.37	33.68	46.00	-12.32 QP
6	931.430	39.85	0.47	40.32	46.00	-5.68 QP



Power	: DC 3.7V	Pol/Phase	: HORIZONTAL
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: 8DPSK: CH78		

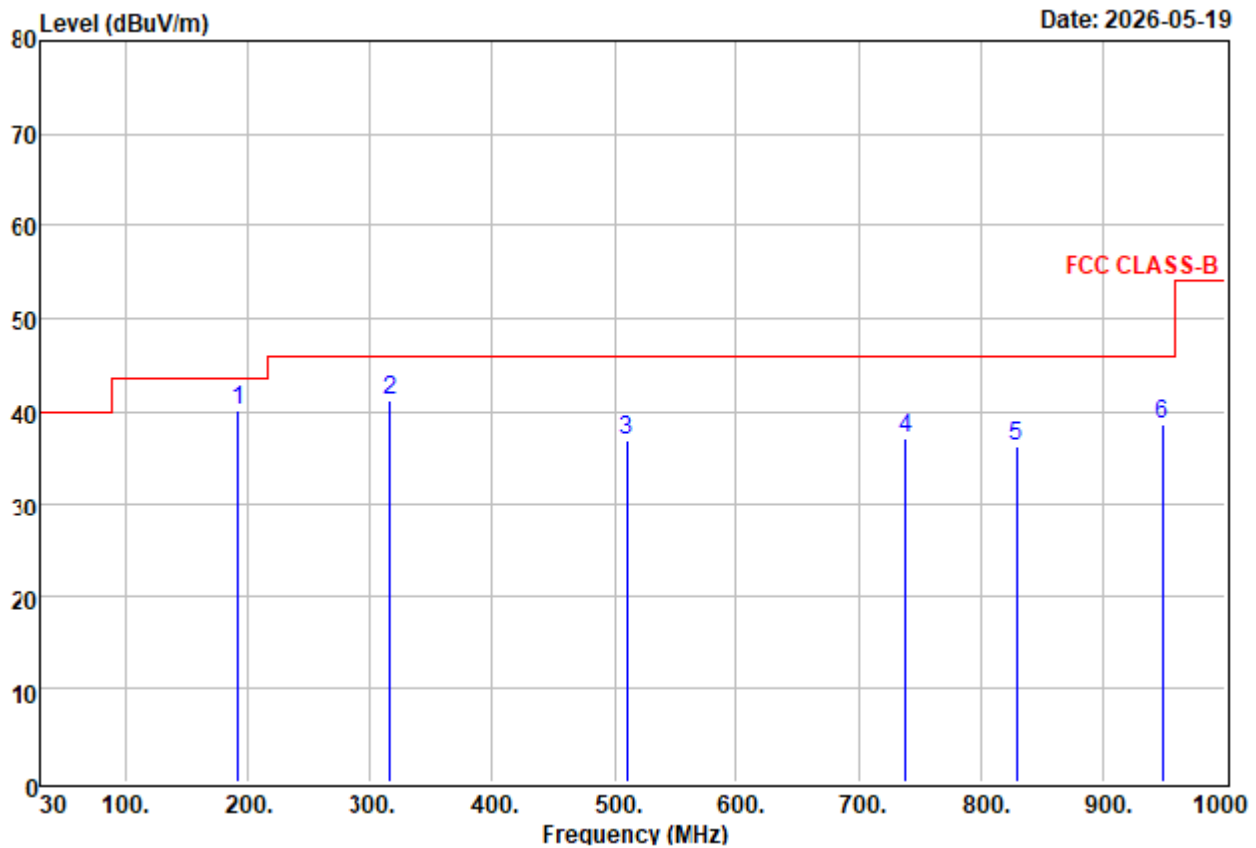


Remarks : 1.Result-Read Value+Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

	Freq	Read Level	Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	127.790	44.92	-16.95	27.97	43.50	-15.53	QP
2	198.800	51.56	-16.78	34.78	43.50	-8.72	QP
3 @	354.800	53.82	-11.87	41.95	46.00	-4.05	QP
4	499.780	44.92	-8.45	36.47	46.00	-9.53	QP
5	718.300	36.41	-3.66	32.75	46.00	-13.25	QP
6	850.570	39.51	-0.89	38.62	46.00	-7.38	QP



Power	: DC 3.7V	Pol/Phase	: VERTICAL
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: 8DPSK: CH78		



Remarks : 1.Result-Read Value|Factor
: 2.Factor=Antenna Factor-Cable loss-
: Amplifier Factor

		Read			Limit	Over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 @	191.770	56.67	-16.56	40.11	43.50	-3.39	QP
2	317.050	53.87	-12.68	41.19	46.00	-4.81	QP
3	509.560	44.80	-7.95	36.85	46.00	-9.15	QP
4	738.420	40.35	-3.25	37.10	46.00	-8.90	QP
5	829.110	37.97	-1.69	36.28	46.00	-9.72	QP
6	948.910	38.02	0.57	38.59	46.00	-7.41	QP



8. 20dB Bandwidth Measurement Data

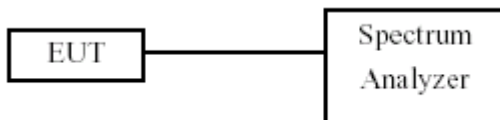
8.1 Test Limit

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

8.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.
- The 20 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20 dB.

8.3 Test Setup Layout



8.4 Test Result and Data

Test Date: 2026.05.18

Temperature: 24°C

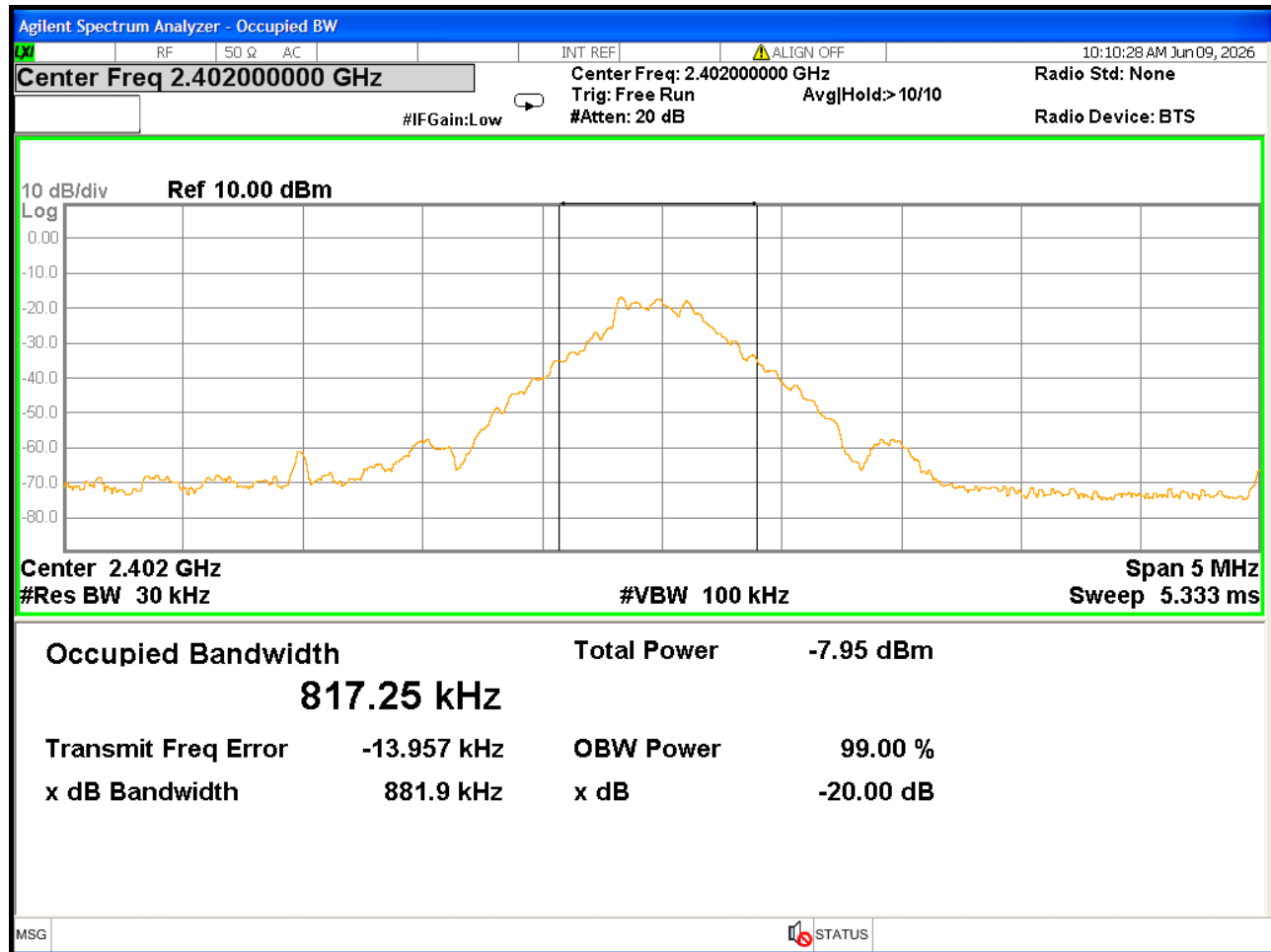
Atmospheric pressure: 1012 hPa

Humidity: 51%

Modulation Standard	Channel	Frequency (MHz)	20dB Bandwidth (kHz)
GFSK (1Mbps)	00	2402	881.9
	39	2441	882.0
	78	2480	880.7
$\pi/4$ -DQPSK (2Mbps)	00	2402	1260
	39	2441	1257
	78	2480	1261
8DPSK (3Mbps)	00	2402	1226
	39	2441	1226
	78	2480	1224

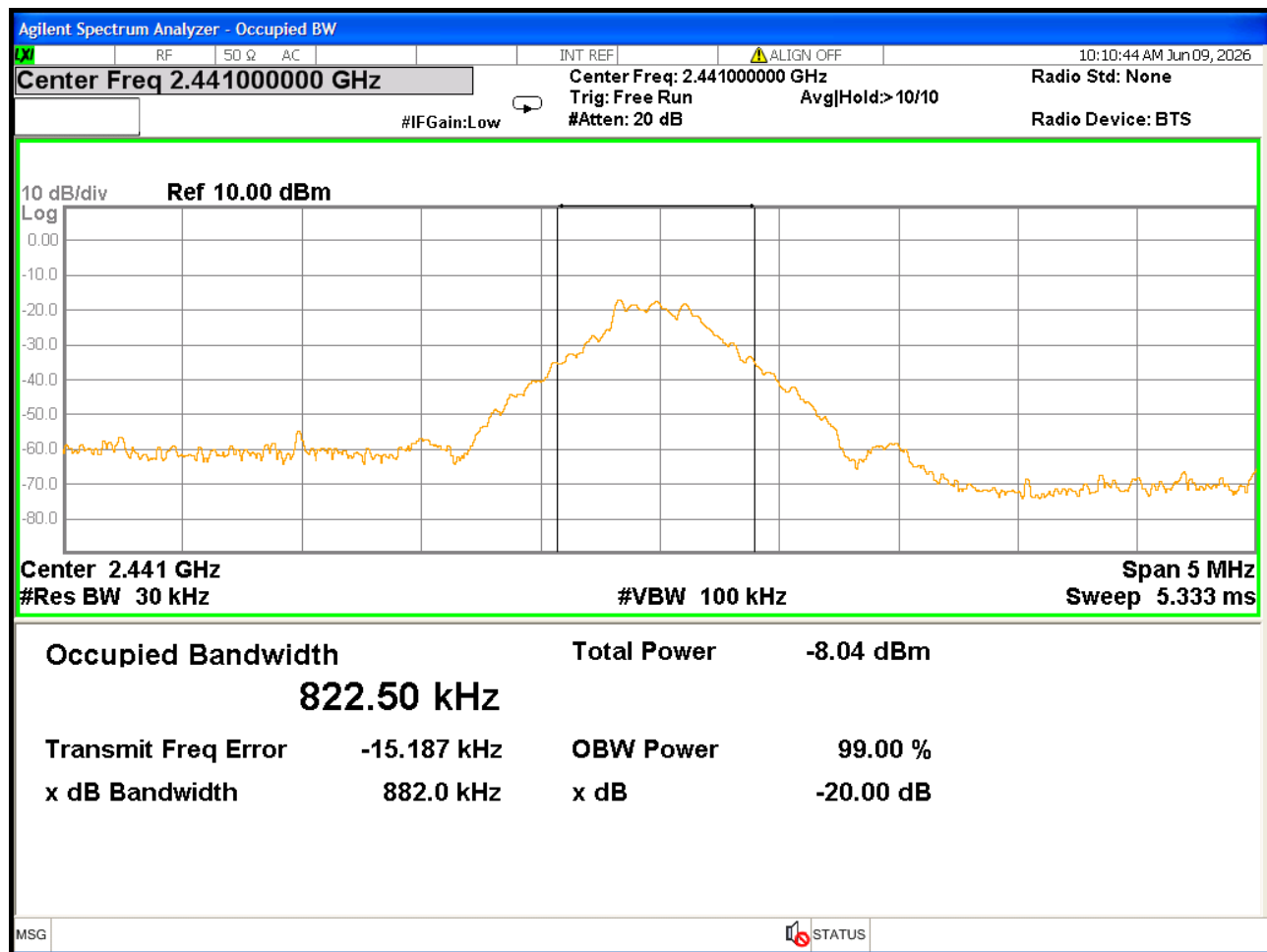


GFSK (1Mbps) Channel: 00



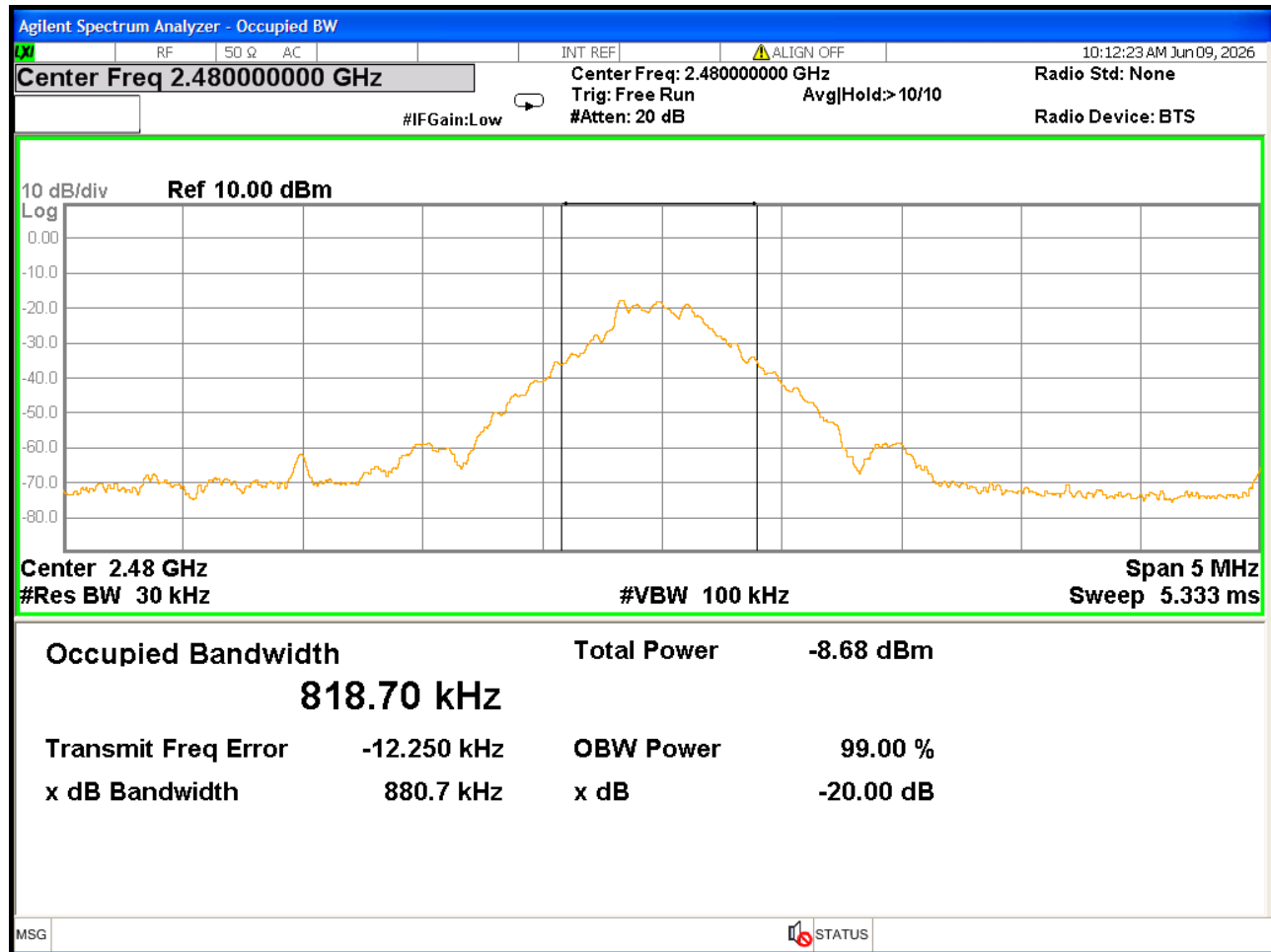


GFSK (1Mbps) Channel: 39



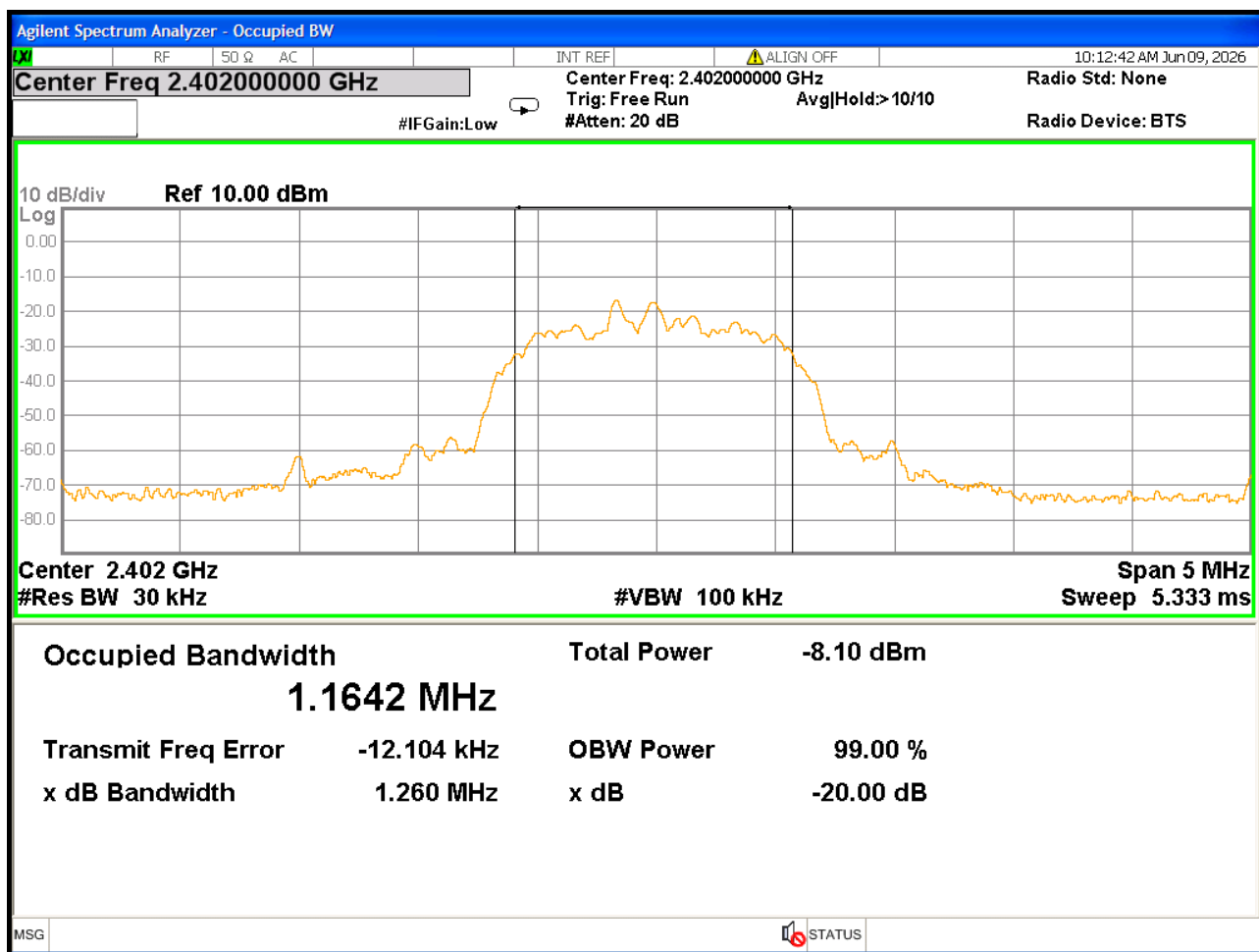


GFSK (1Mbps) Channel: 78



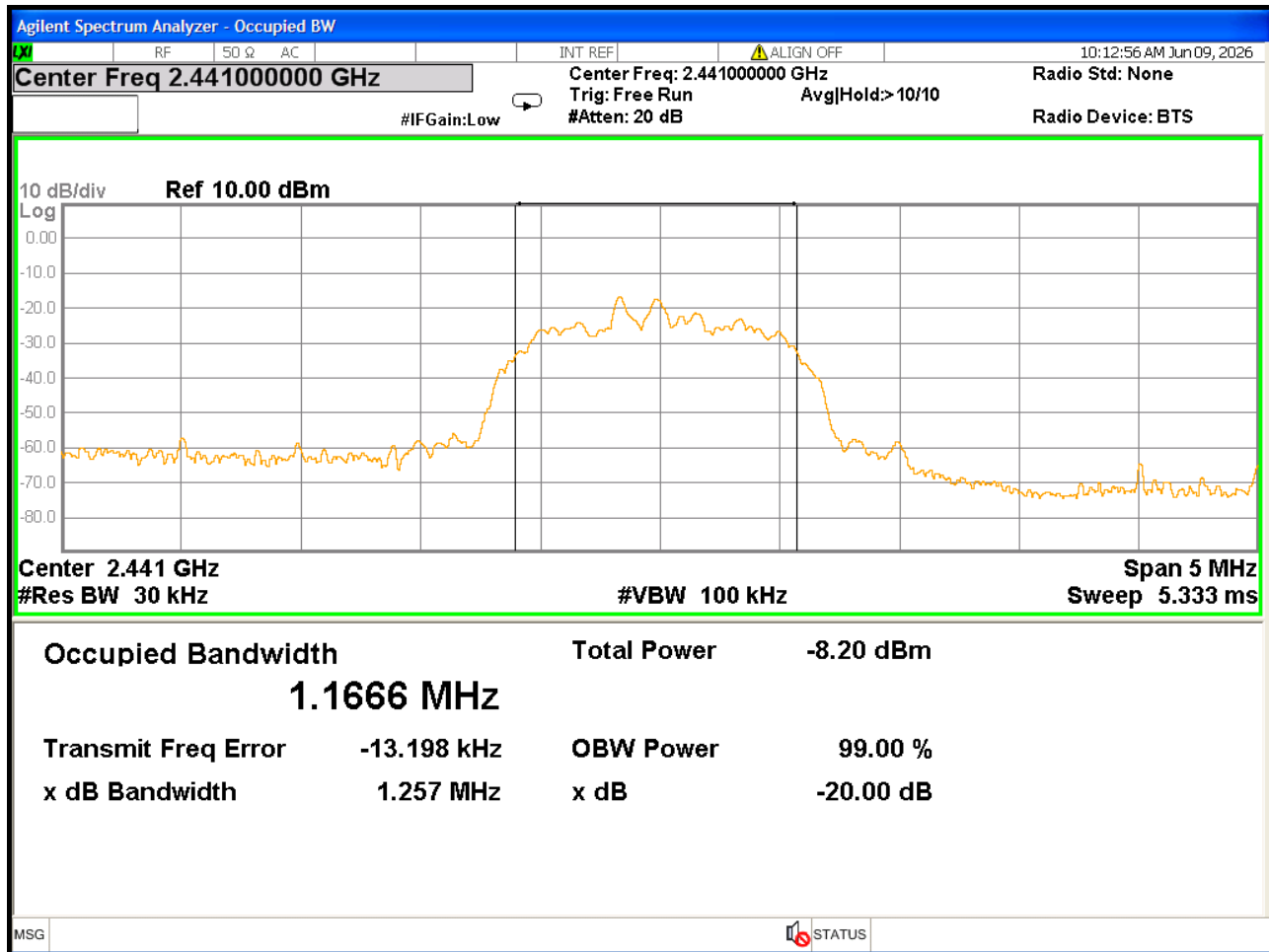


$\pi/4$ -DQPSK (2Mbps) Channel: 00



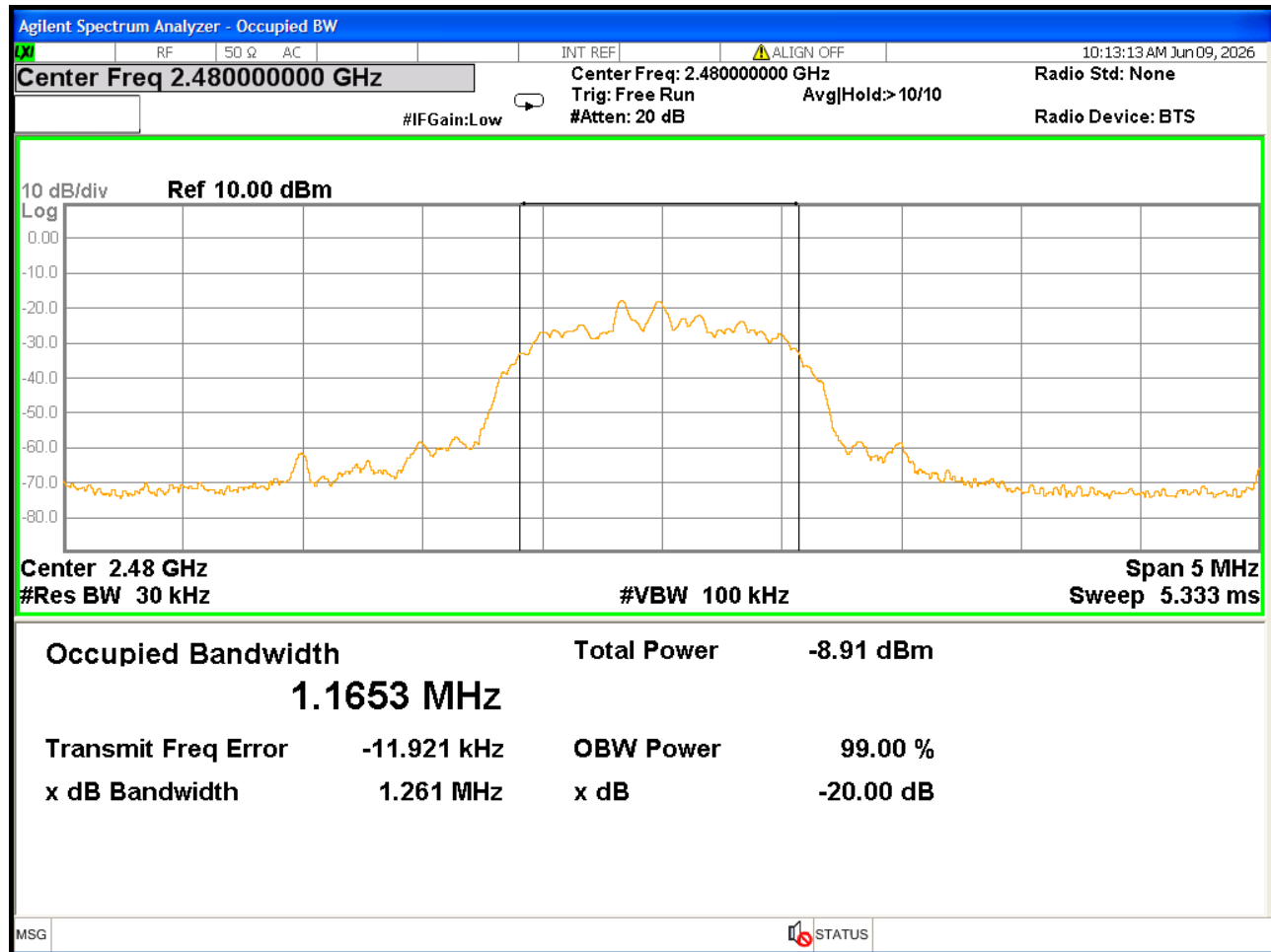


$\pi/4$ -DQPSK (2Mbps) Channel: 39



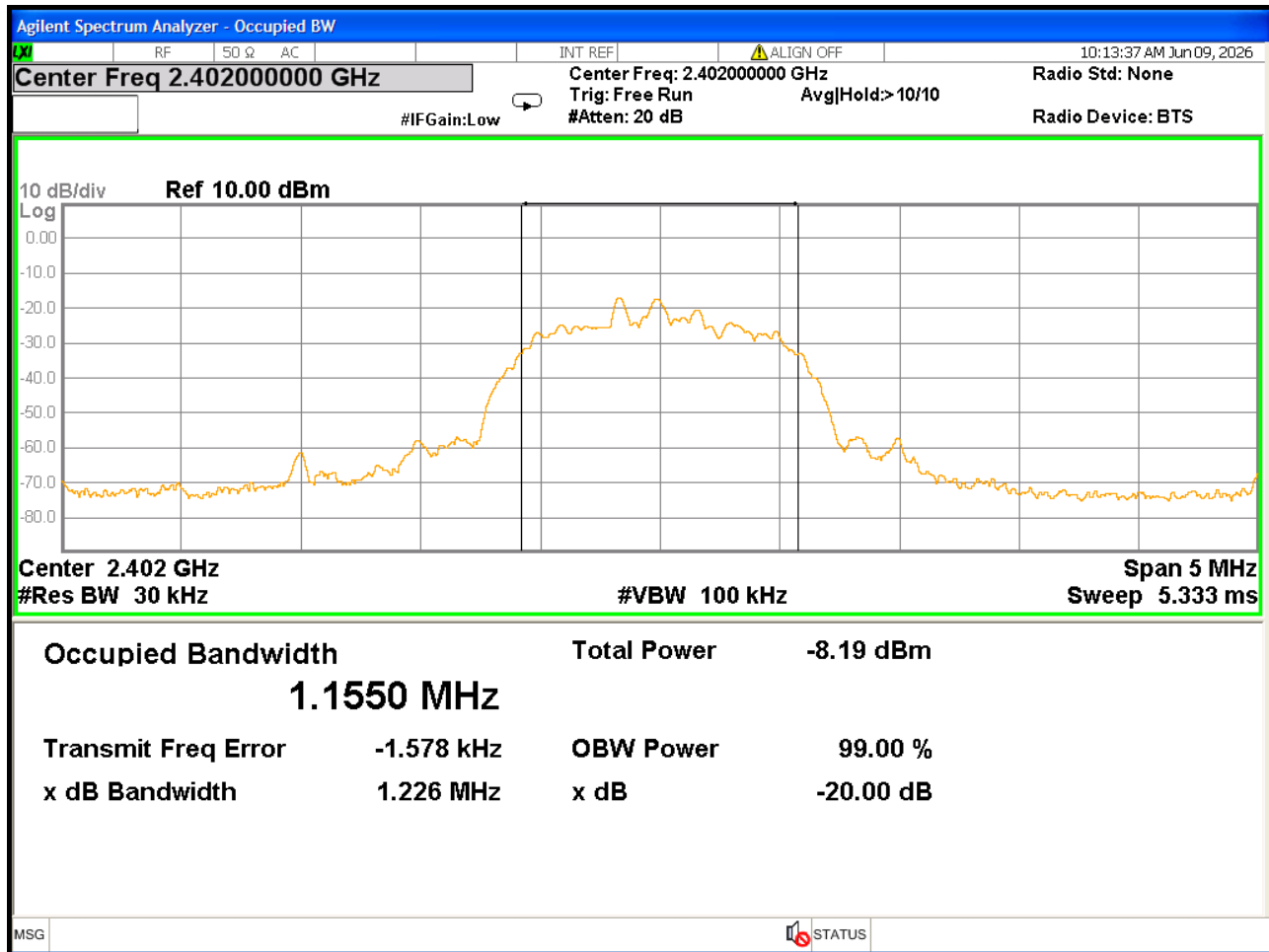


$\pi/4$ -DQPSK (2Mbps) Channel: 78



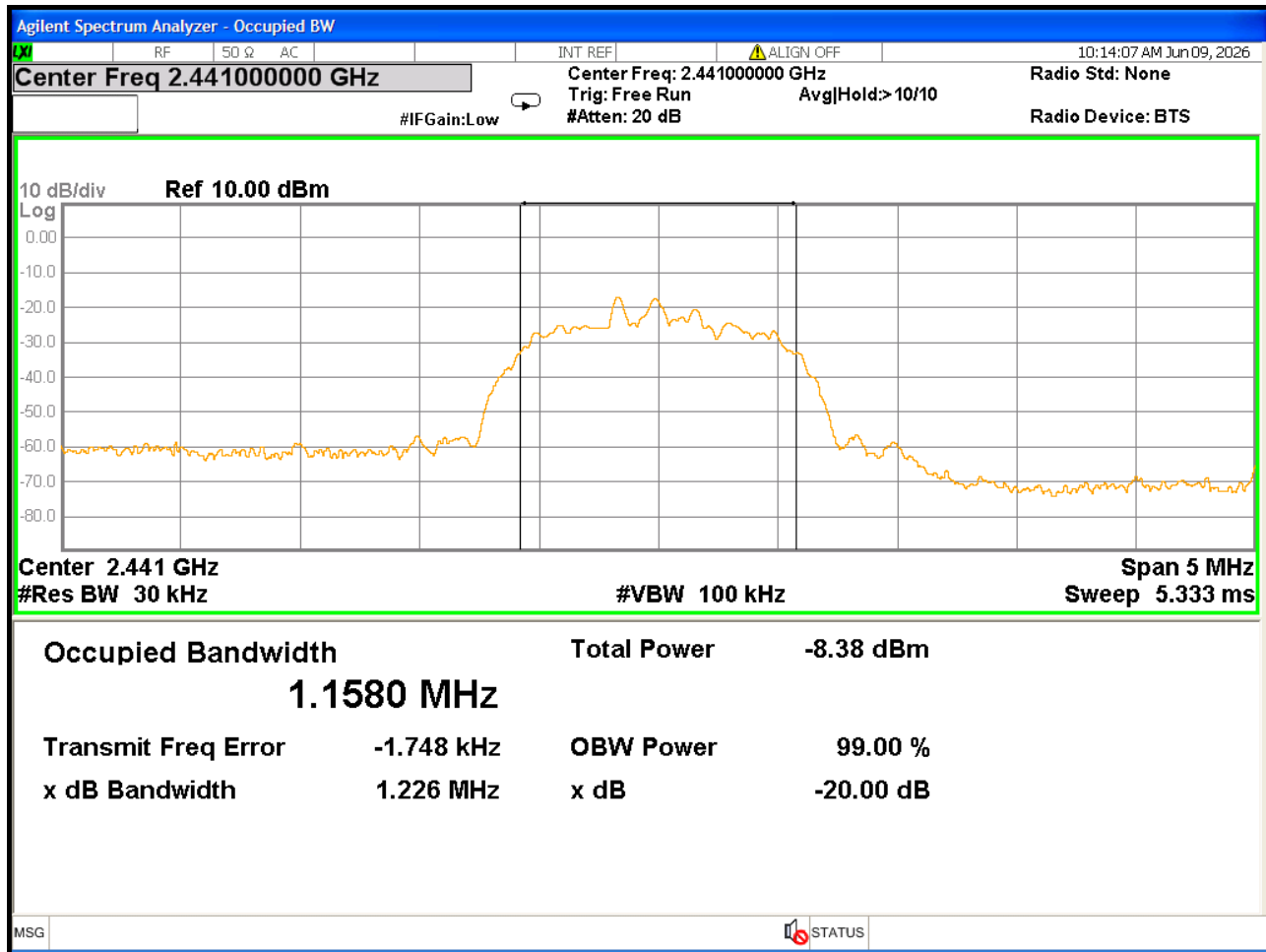


8DPSK (3Mbps) Channel: 00



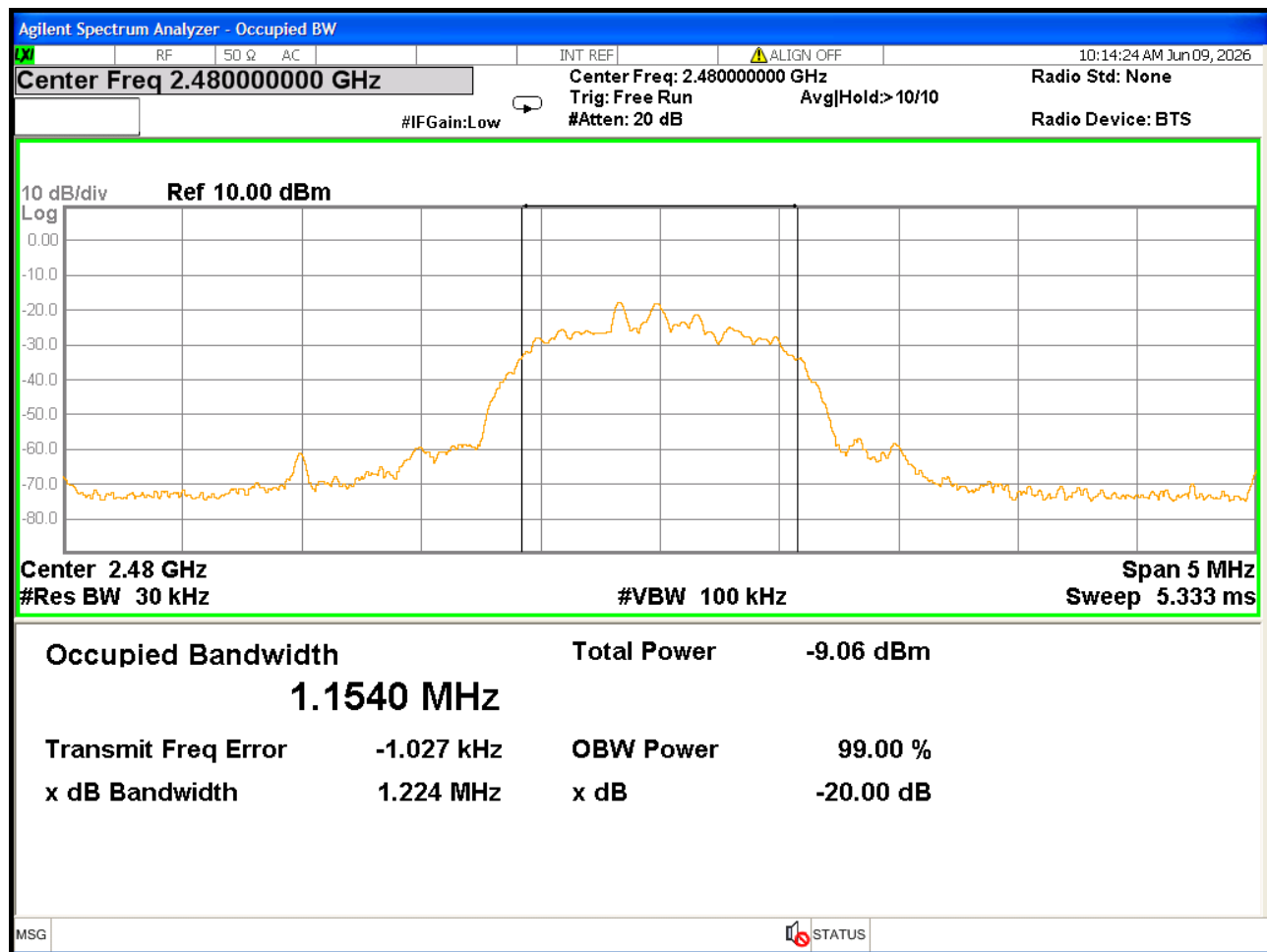


8DPSK (3Mbps) Channel: 39





8DPSK (3Mbps) Channel: 78





9. Frequencies Separation

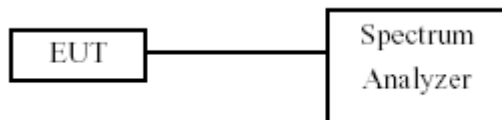
9.1 Test Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

9.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 30 kHz and VBW to 100 kHz.
- By using the MaxHold function record the separation of two adjacent channels.
- Measure the frequency difference of these two adjacent channels.

9.3 Test Setup Layout



9.4 Test Result and Data

Test Date: 2026.05.18

Temperature: 24°C

Atmospheric pressure: 1012 hPa

Humidity: 51%

Modulation Type	Channel	Frequency (MHz)	Freq. Separation (MHz)	two-third of 20dB bandwidth(MHz)
GFSK	0	2402	1.000	0.5879
	39	2441	1.000	0.5880
	78	2480	1.000	0.5871
$\pi/4$ -DQPSK	0	2402	1.000	0.8400
	39	2441	1.000	0.8380
	78	2480	1.000	0.8407
8DPSK	0	2402	1.000	0.8173
	39	2441	0.998	0.8173
	78	2480	1.002	0.8160

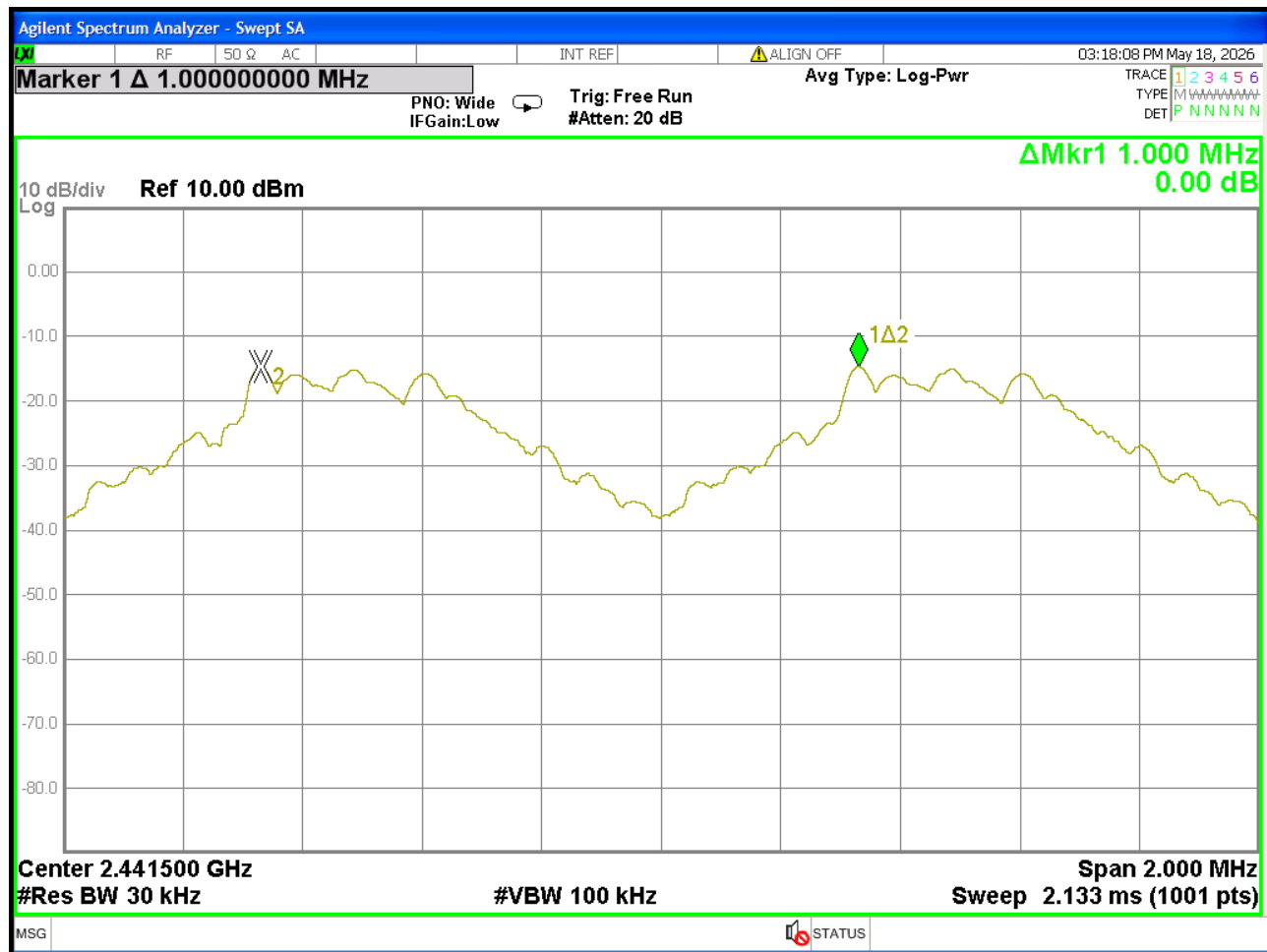


GFSK (1Mbps) Channel: 00





GFSK (1Mbps) Channel: 39



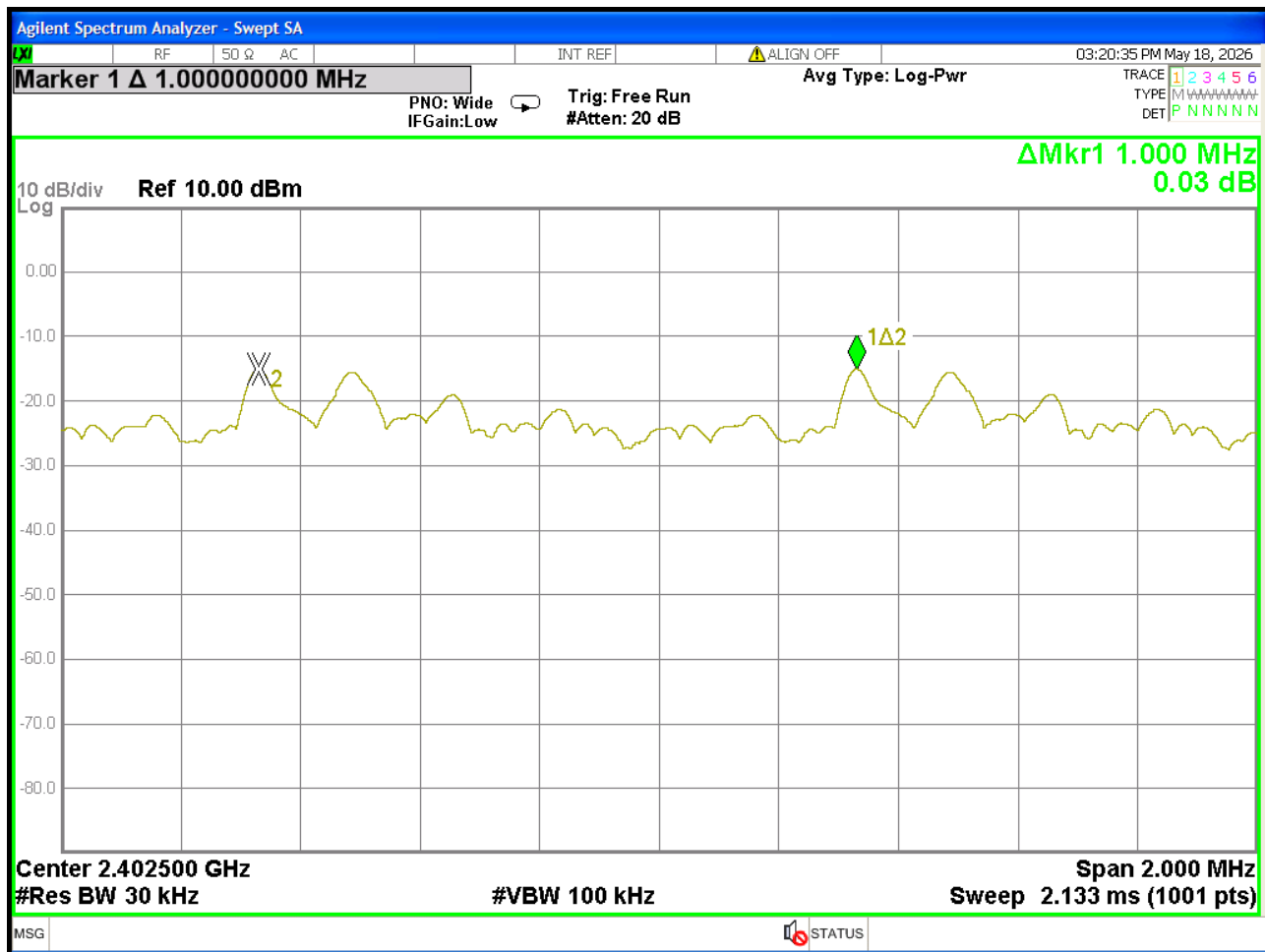


GFSK (1Mbps) Channel: 78



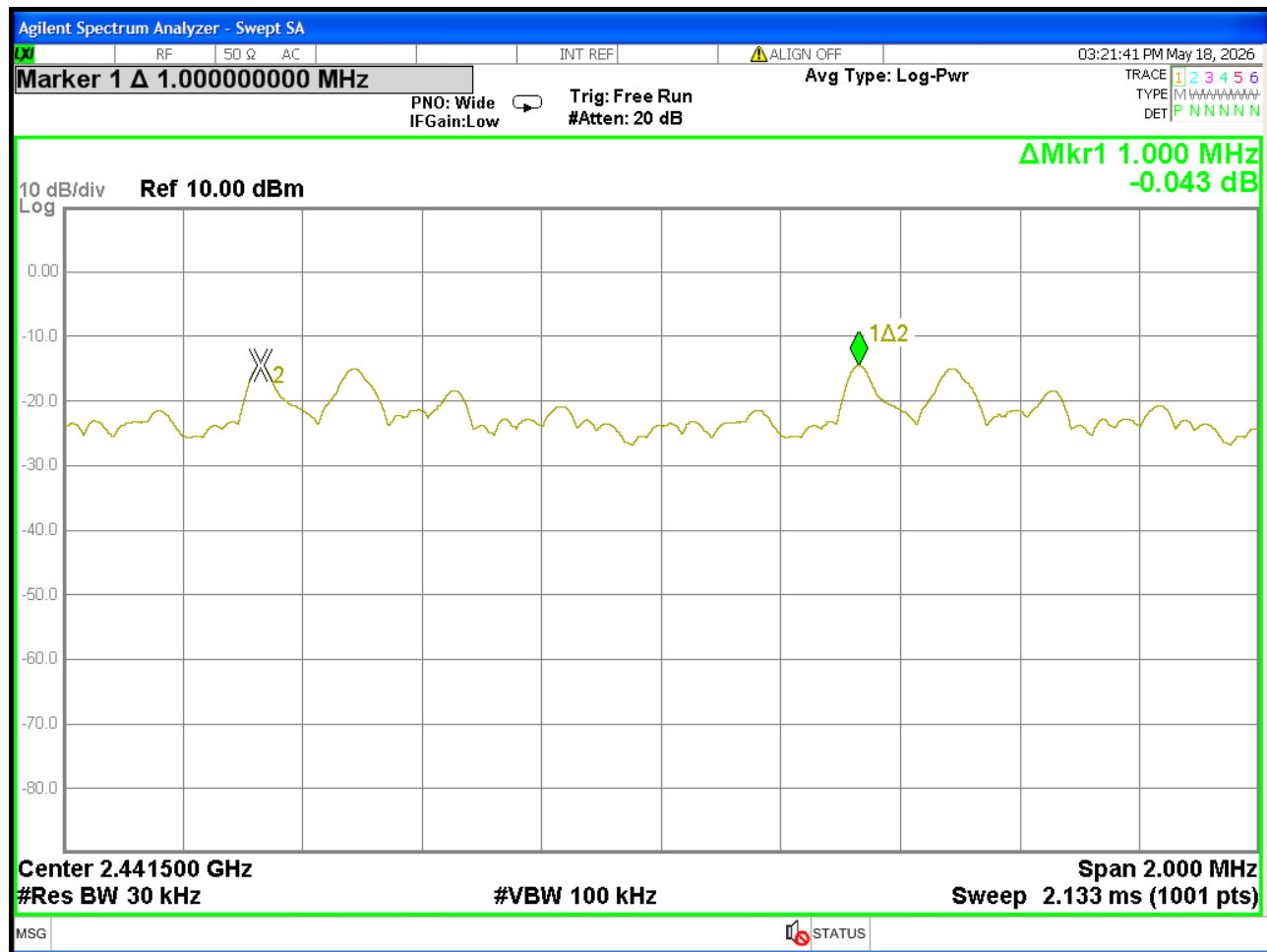


$\pi/4$ -DQPSK (2Mbps) Channel: 00





$\pi/4$ -DQPSK (2Mbps) Channel: 39



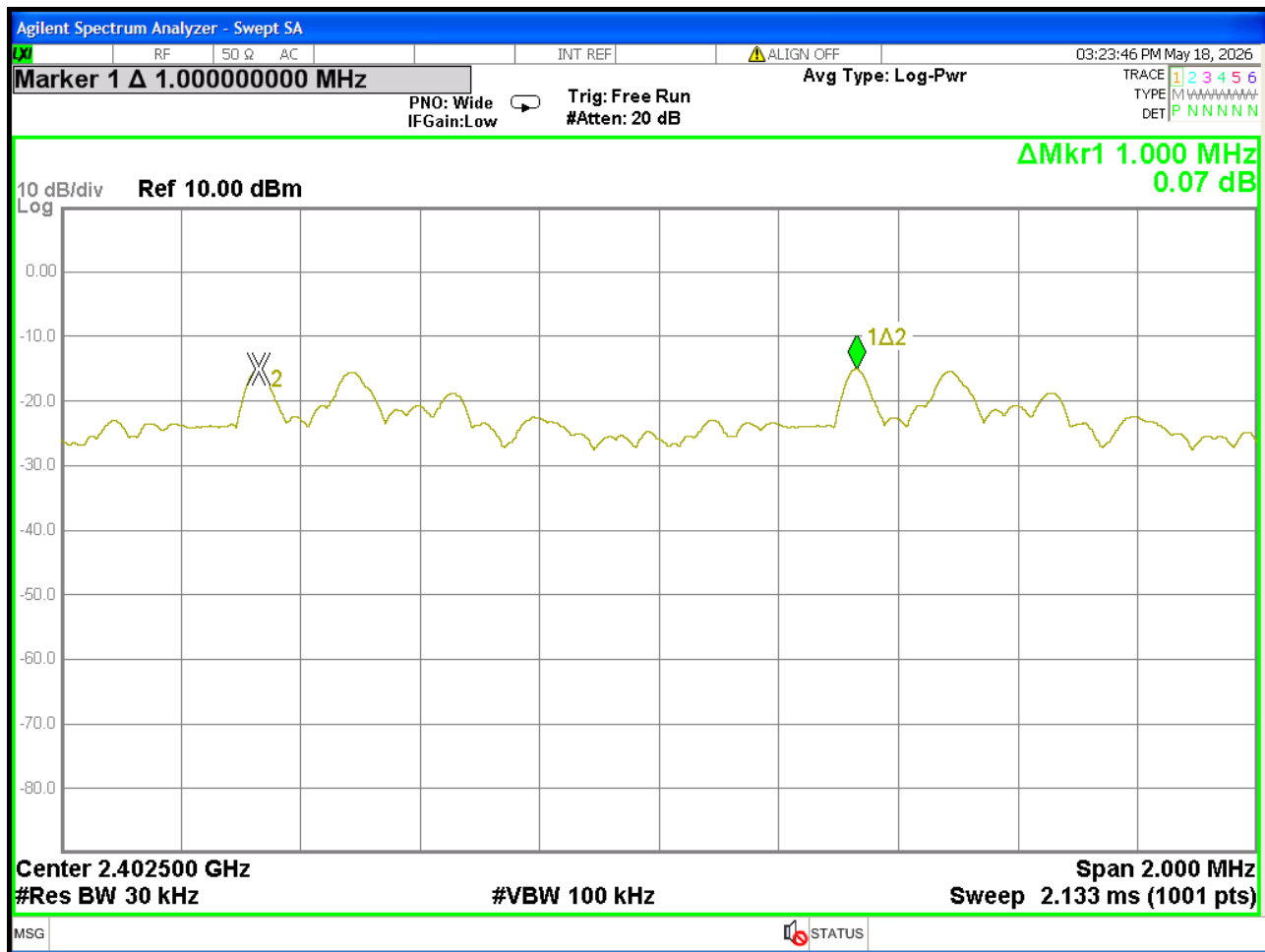


$\pi/4$ -DQPSK (2Mbps) Channel: 78



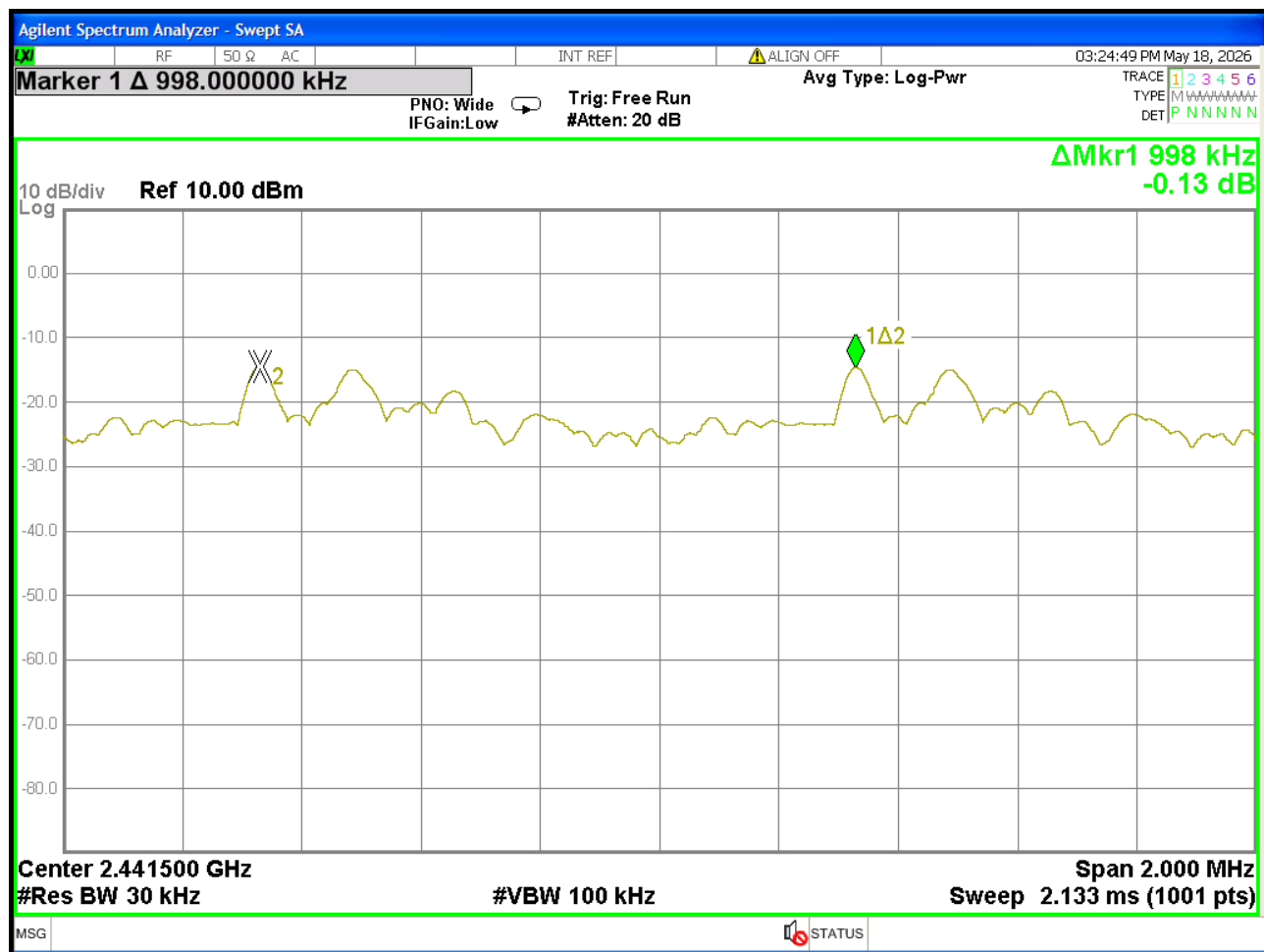


8DPSK (3Mbps) Channel: 00

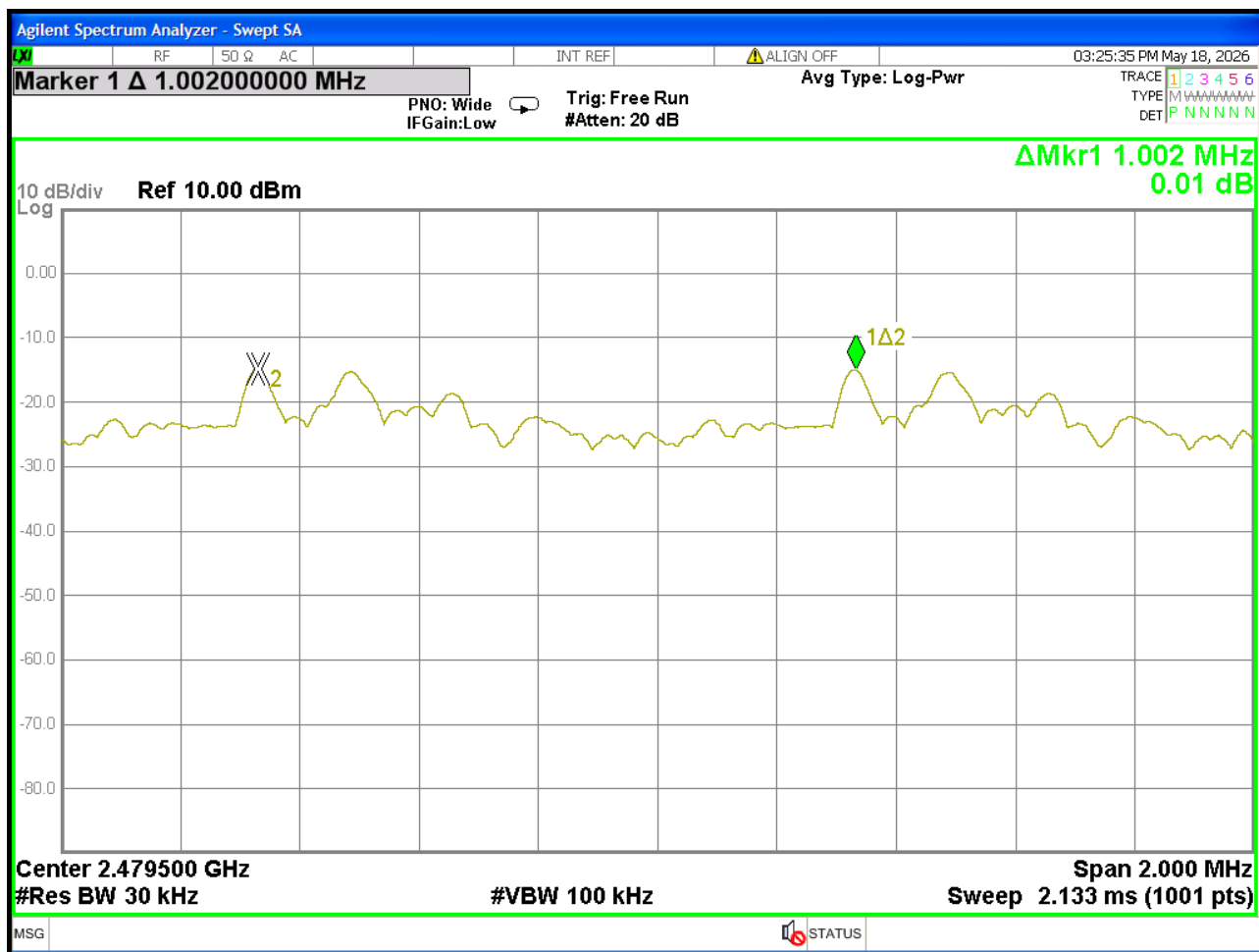




8DPSK (3Mbps) Channel: 39



8DPSK (3Mbps) Channel: 78





10. Dwell Time on each channel

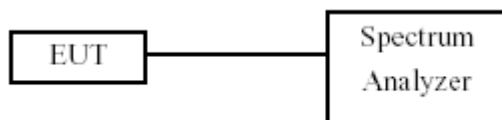
10.1 Test Limit

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.

10.2 Test Procedures

- a. The transmitter output was connected to the spectrum analyzer.
- b. Adjust the center frequency to measure frequency, then set zero span mode.
- c. Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.
- d. Measure the time duration of one transmission on the measured frequency.

10.3 Test Setup Layout



**10.4 Test Result and Data**

Test Date: 2026.05.18

Temperature: 24°C

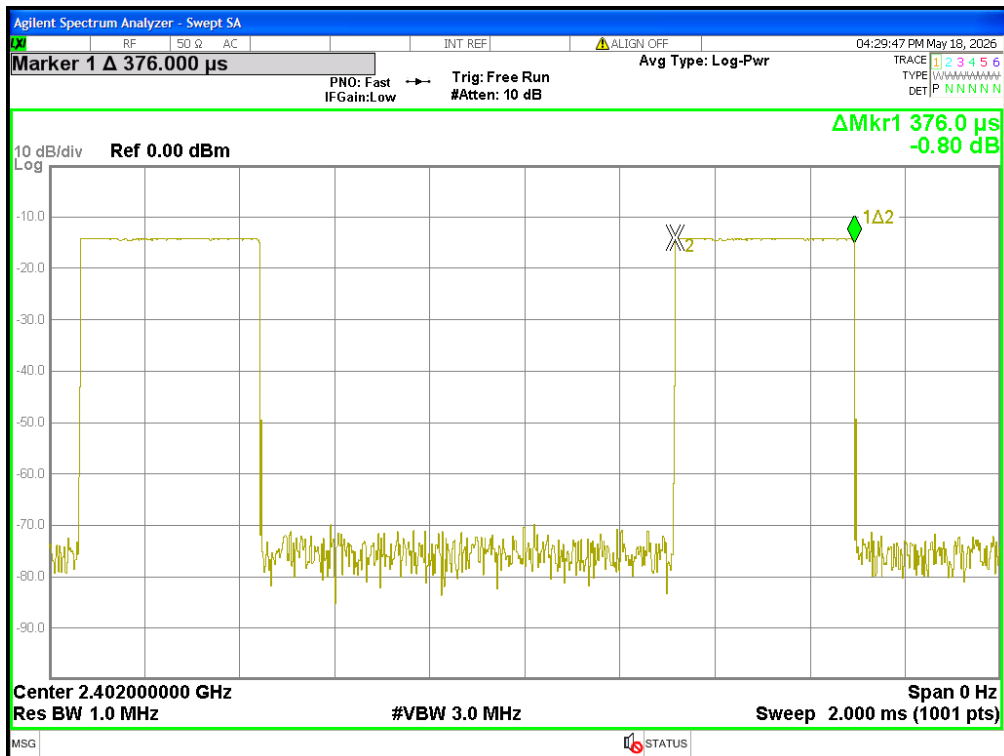
Atmospheric pressure: 1012 hPa

Humidity: 51%

Modulation Type	Channel	Frequency (MHz)	Pulse Duration (ms)	Number of Pulses (3.16s)	Number of transmission in 31.6s = Burst Count	Dwell Time (s)
GFSK DH1	0	2402	0.3760	32	320	0.120
	39	2441	0.3700	32	320	0.118
	78	2480	0.3740	32	320	0.120
GFSK DH3	0	2402	1.6300	17	170	0.277
	39	2441	1.6300	17	170	0.277
	78	2480	1.6300	17	170	0.277
GFSK DH5	0	2402	2.8800	11	110	0.317
	39	2441	2.8800	11	110	0.317
	78	2480	2.8800	12	120	0.346
$\pi/4$ -DQPSK 2DH1	0	2402	0.3840	32	320	0.123
	39	2441	0.3860	32	320	0.124
	78	2480	0.3860	32	320	0.124
$\pi/4$ -DQPSK 2DH3	0	2402	1.6350	16	160	0.262
	39	2441	1.6350	18	180	0.294
	78	2480	1.6400	17	170	0.279
$\pi/4$ -DQPSK 2DH5	0	2402	2.8880	13	130	0.375
	39	2441	2.8880	12	120	0.347
	78	2480	2.8880	12	120	0.347
8DPSK 3DH1	0	2402	0.3860	32	320	0.124
	39	2441	0.3860	32	320	0.124
	78	2480	0.3860	32	320	0.124
8DPSK 3DH3	0	2402	1.6350	14	140	0.229
	39	2441	1.6350	16	160	0.262
	78	2480	1.6350	18	180	0.294
8DPSK 3DH5	0	2402	2.8880	12	120	0.347
	39	2441	2.8880	13	130	0.375
	78	2480	2.8800	13	130	0.374

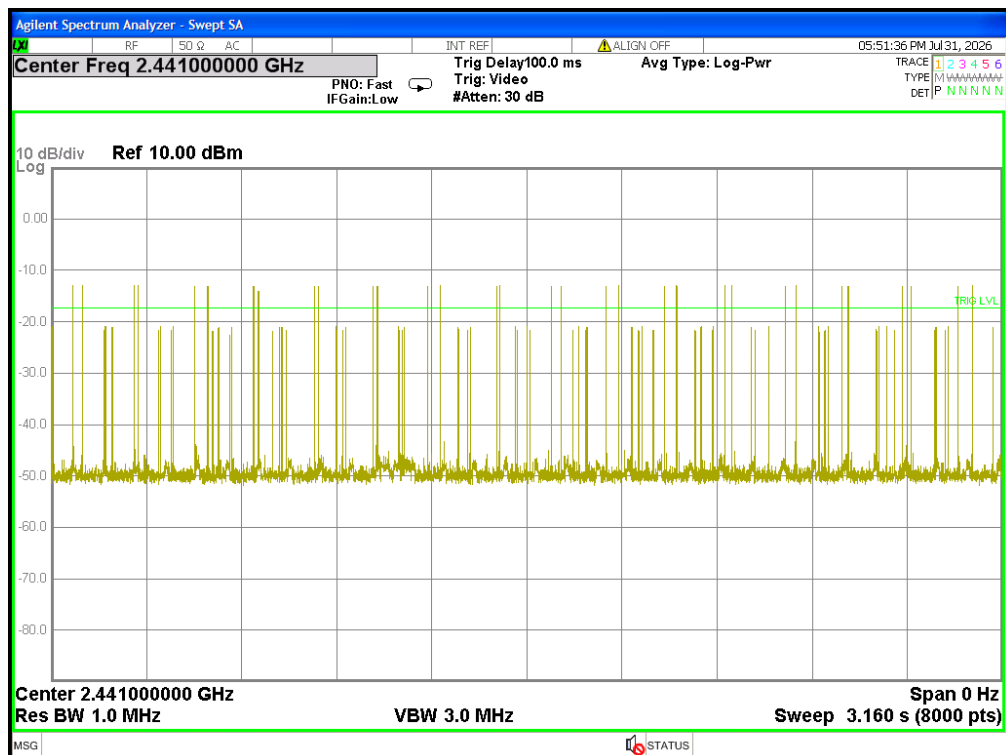
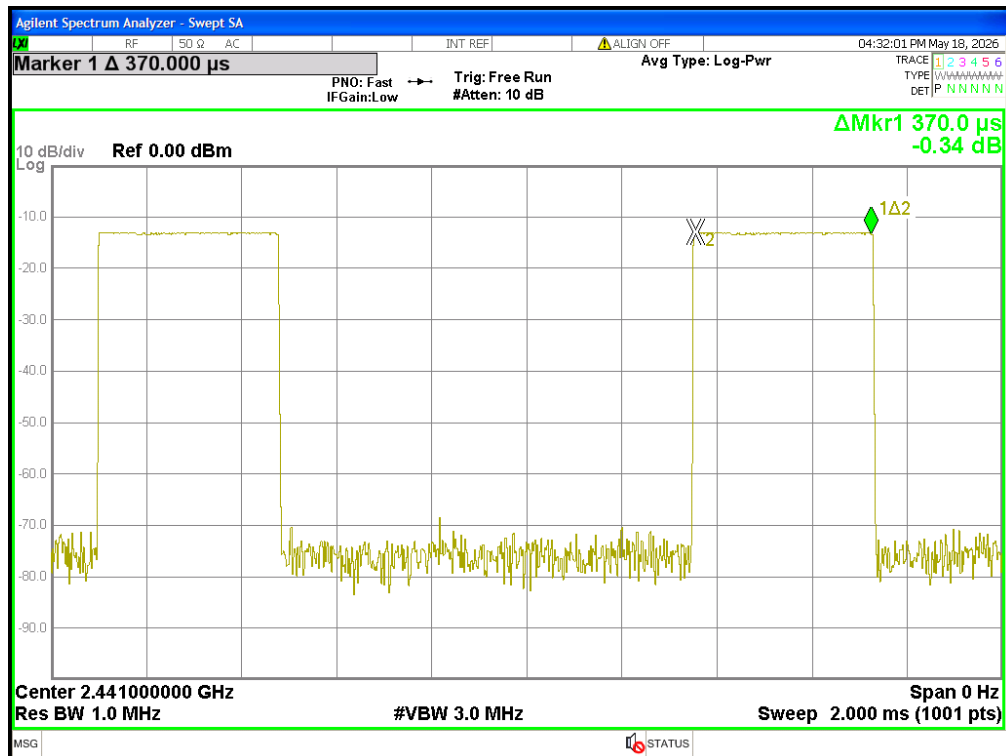


GFSK (1Mbps) Rate: DH1 Channel: 00



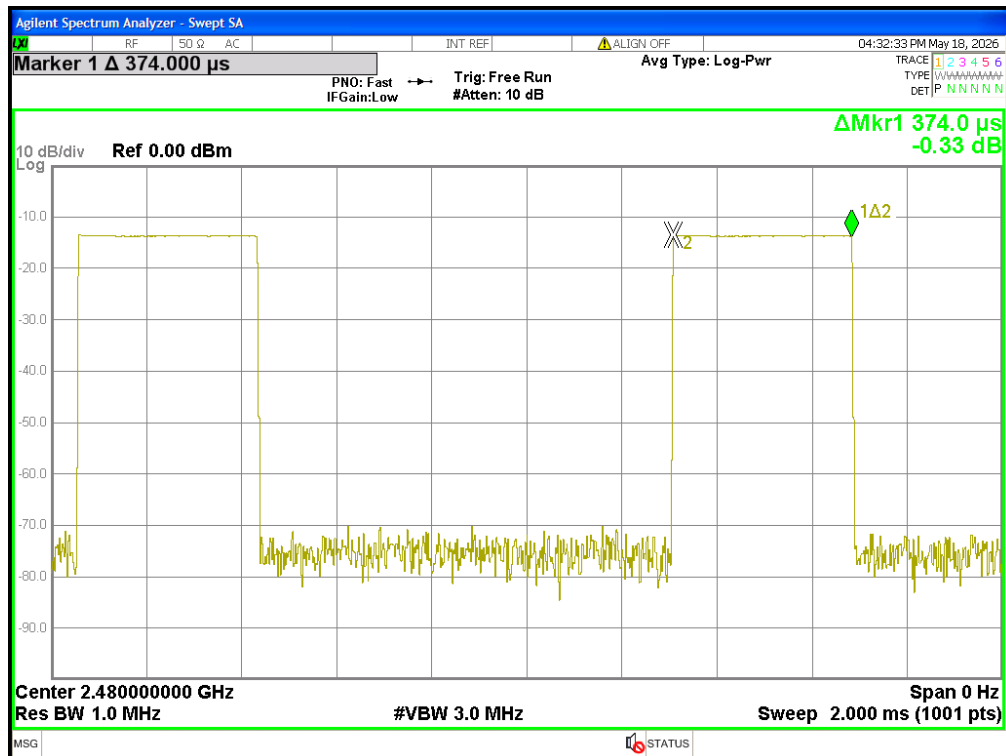


GFSK (1Mbps) Rate: DH1 Channel: 39



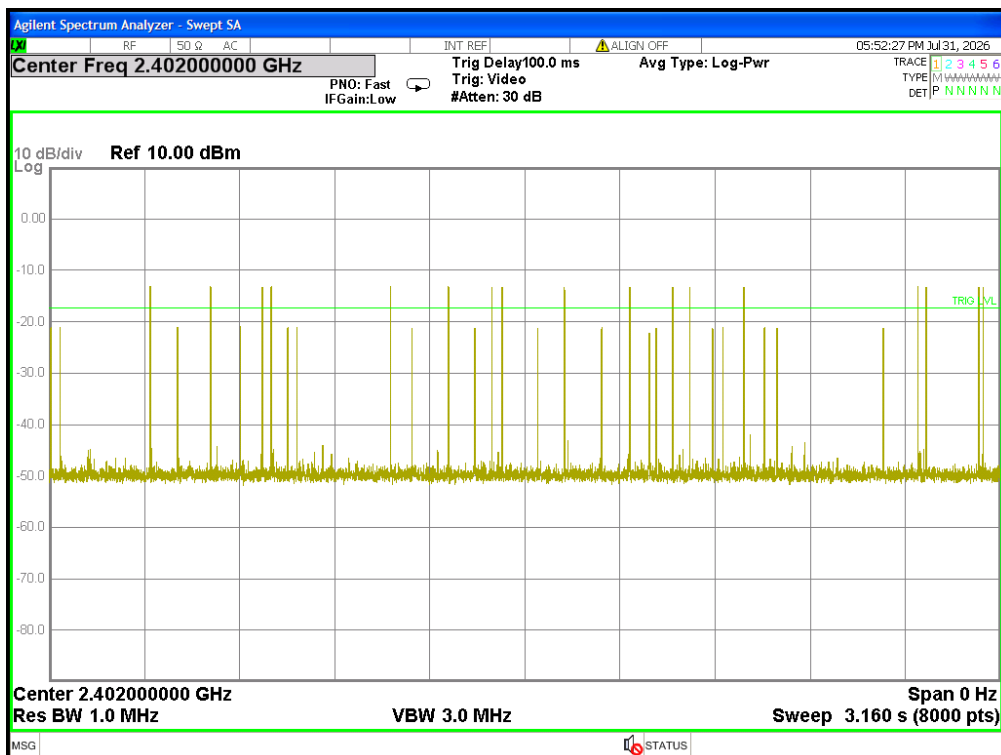


GFSK (1Mbps) Rate: DH1 Channel: 78



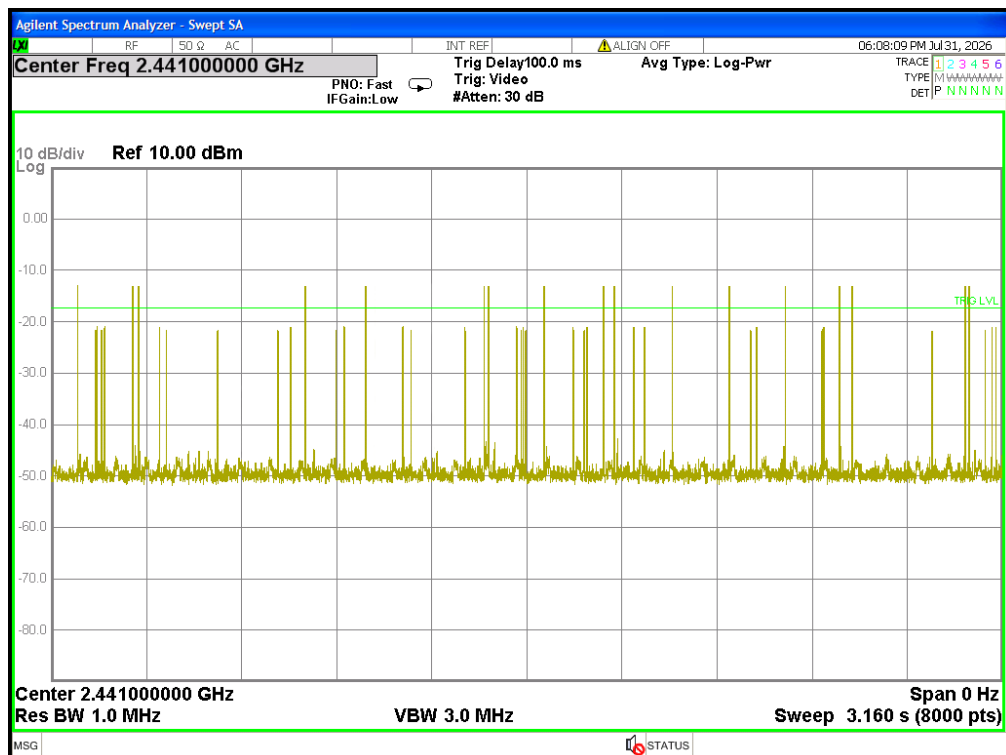


GFSK (1Mbps) Rate: DH3 Channel: 00



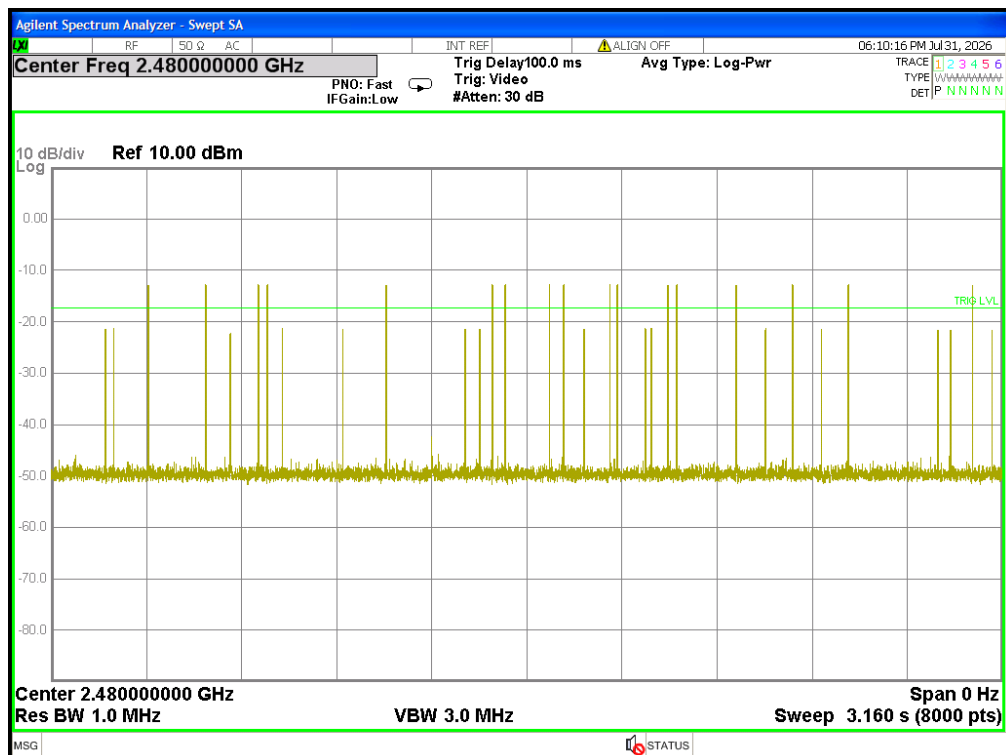


GFSK (1Mbps) Rate: DH3 Channel: 39



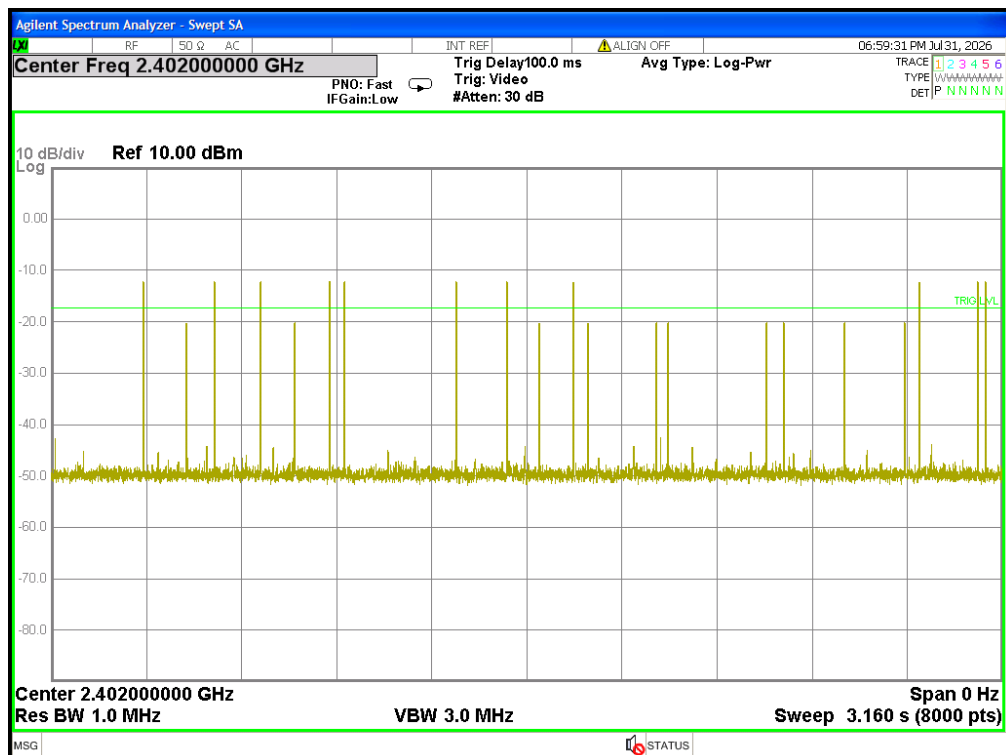


GFSK (1Mbps) Rate: DH3 Channel: 78



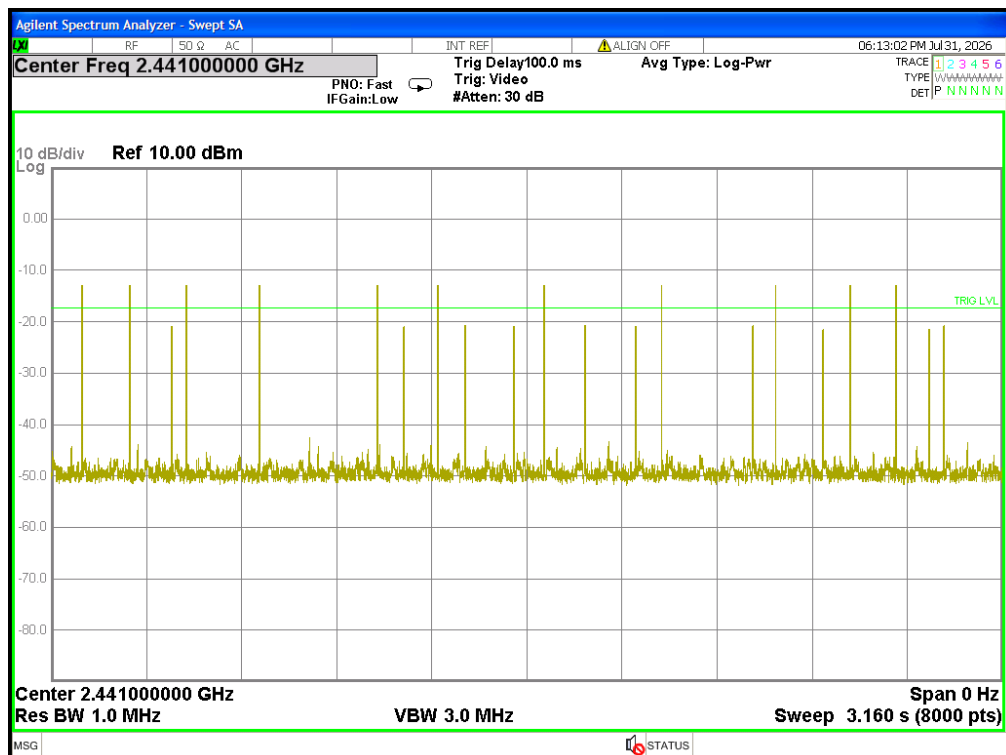


GFSK (1Mbps) Rate: DH5 Channel: 00





GFSK (1Mbps) Rate: DH5 Channel: 39



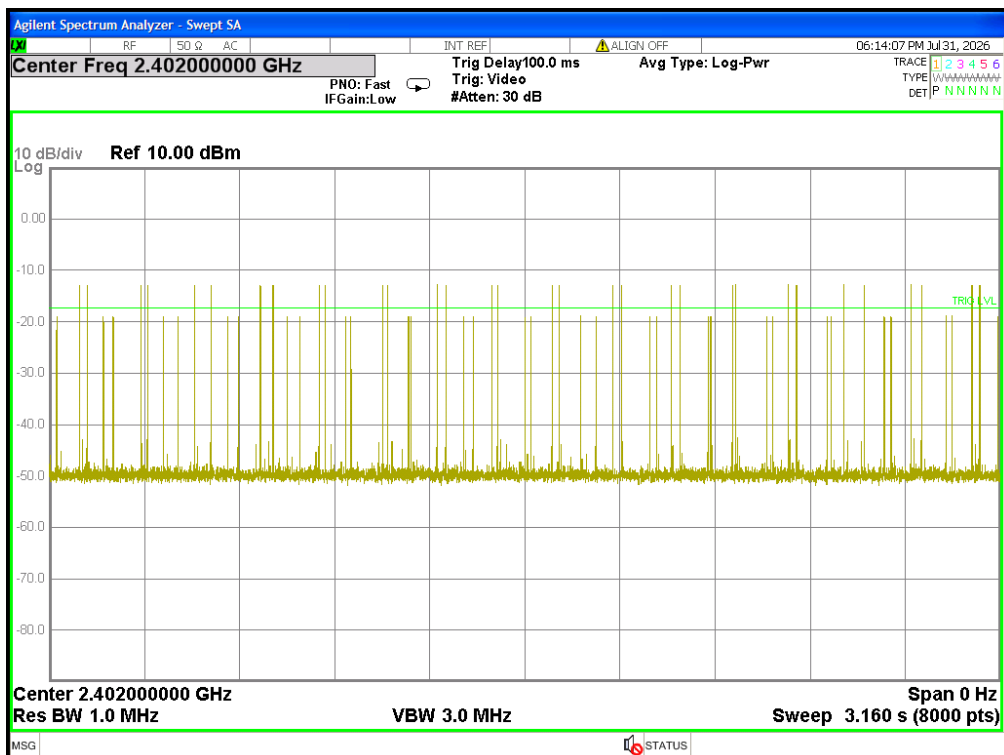
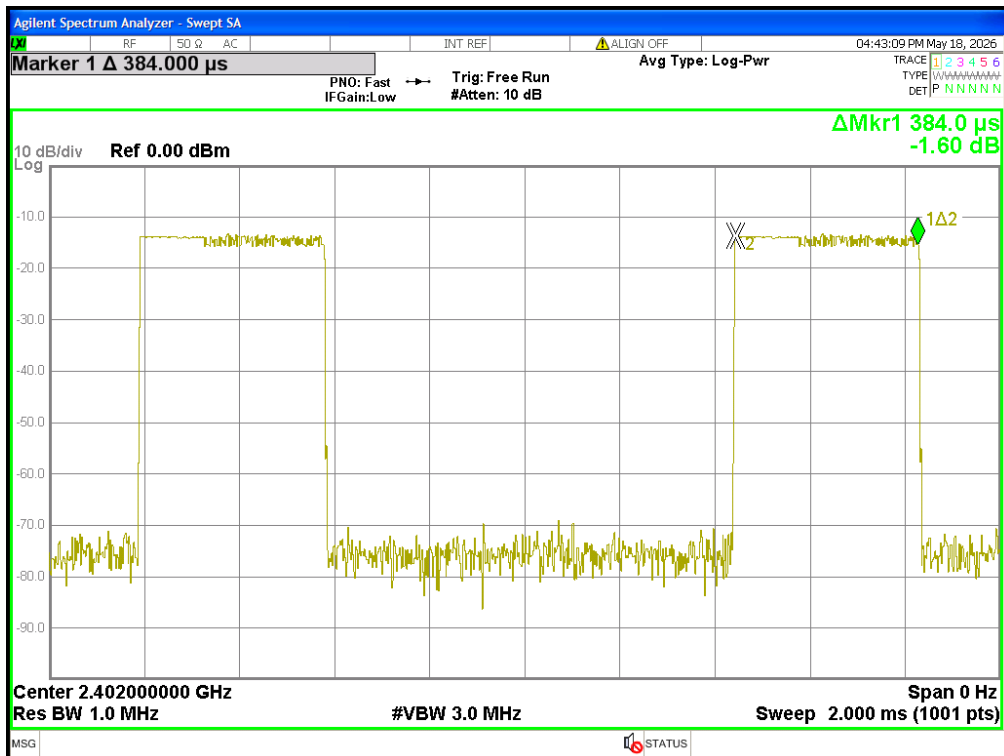


GFSK (1Mbps) Rate: DH5 Channel: 78



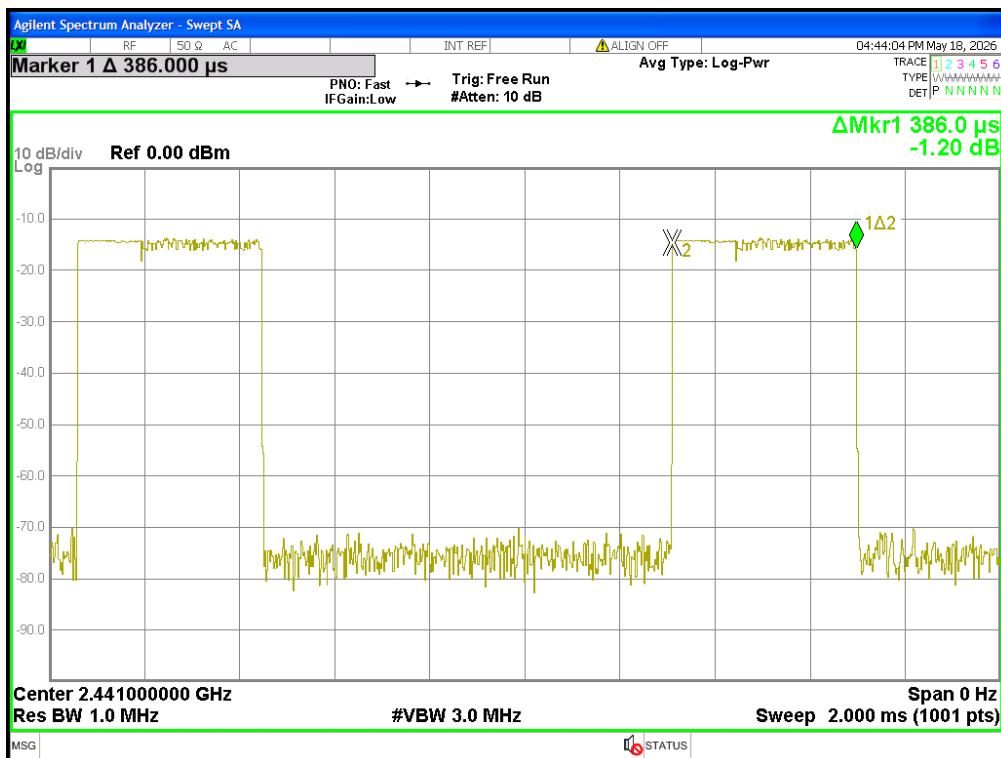


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH1 Channel: 00



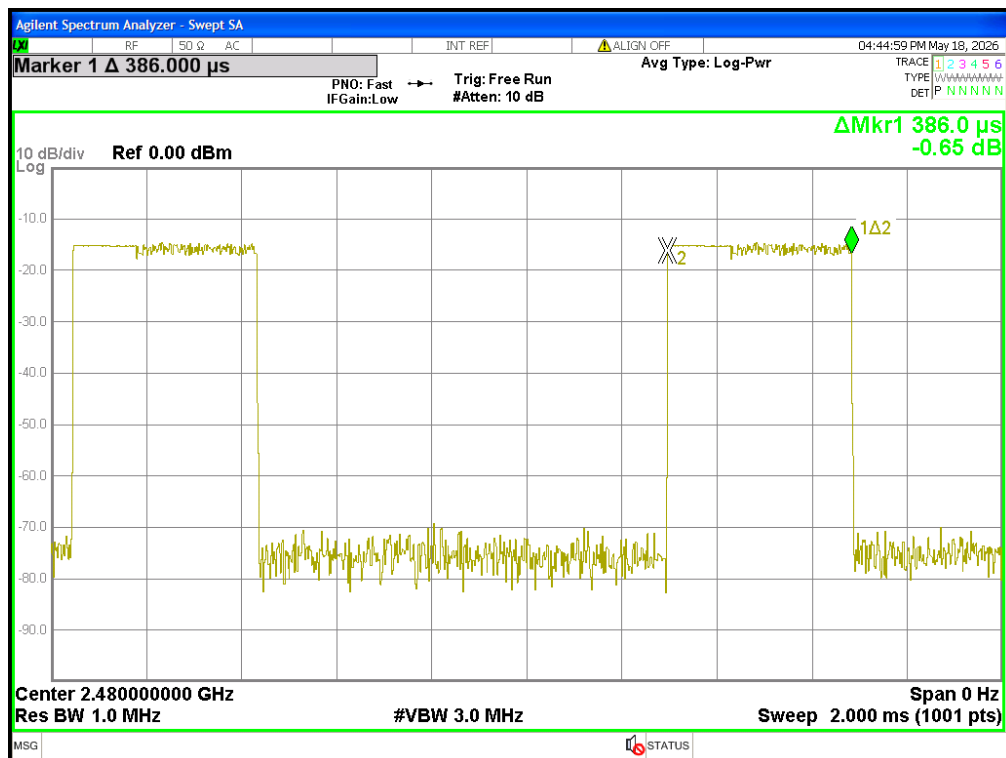


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH1 Channel: 39



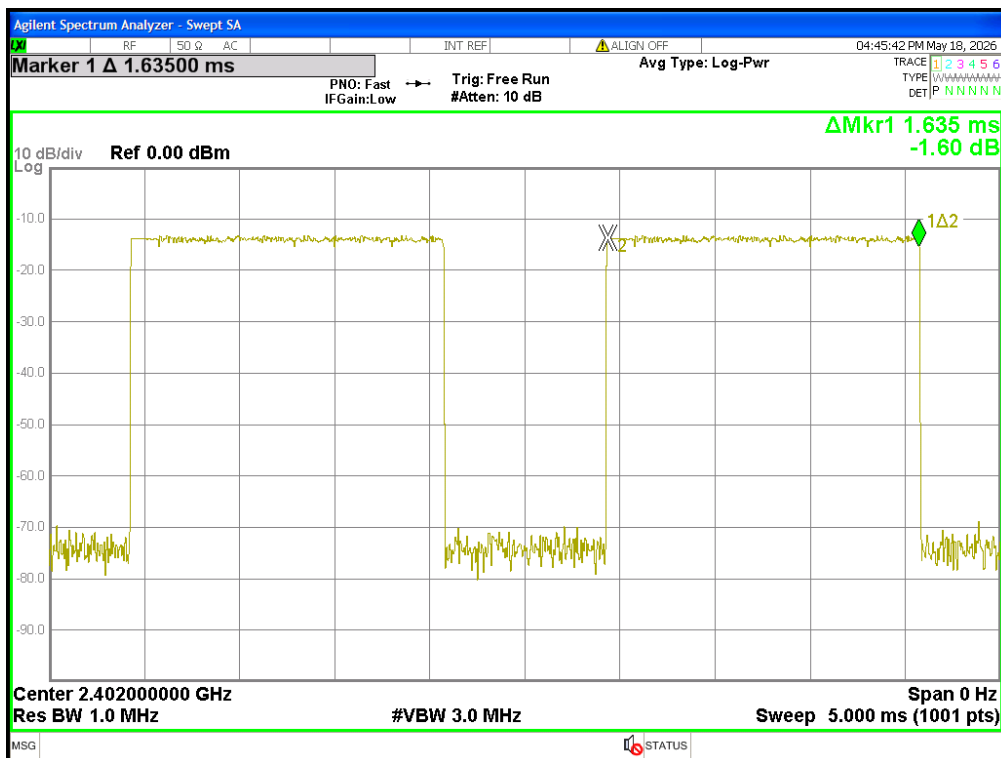


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH1 Channel: 78





$\pi/4$ -DQPSK (2Mbps) Rate: 2DH3 Channel: 00





$\pi/4$ -DQPSK (2Mbps) Rate: 2DH3 Channel: 39



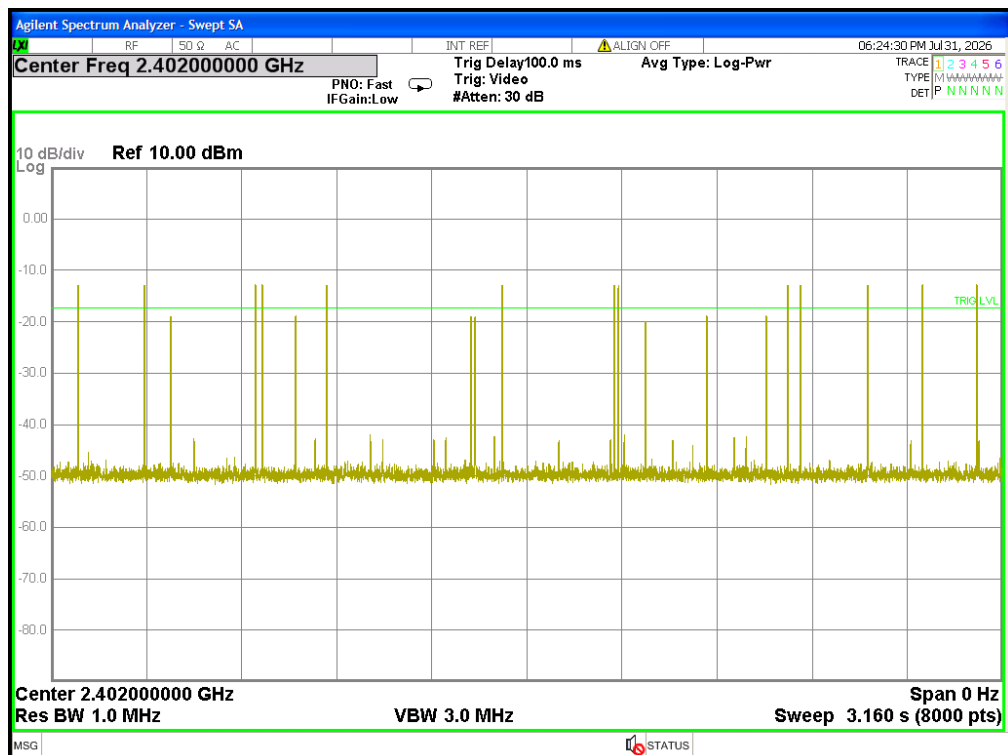
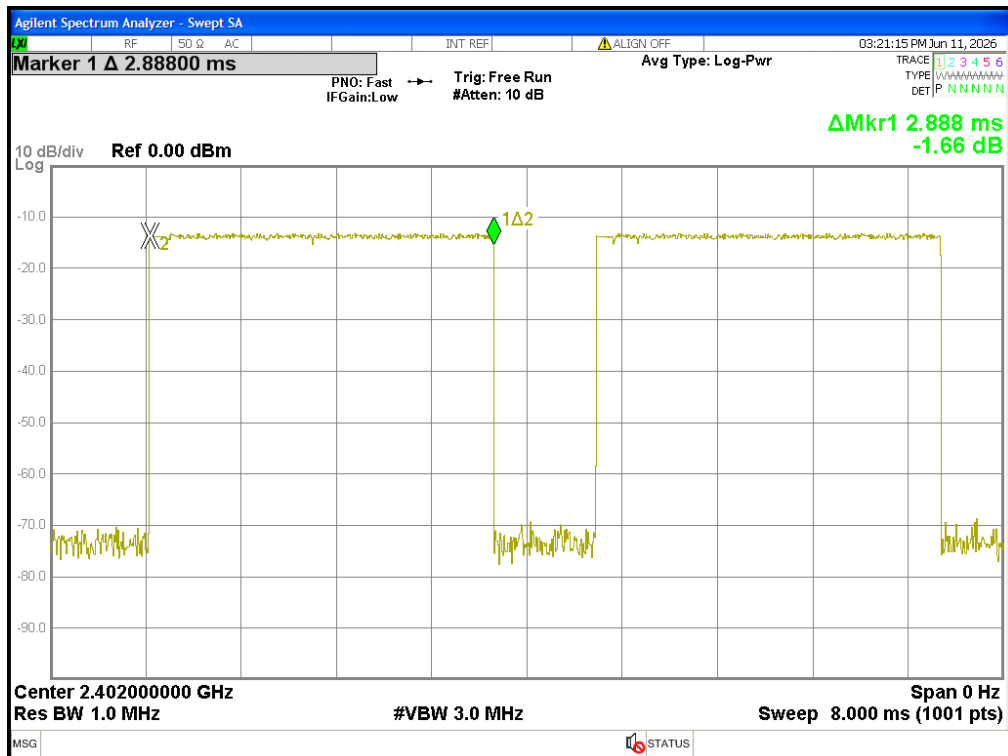


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH3 Channel: 78





$\pi/4$ -DQPSK (2Mbps) Rate: 2DH5 Channel: 00

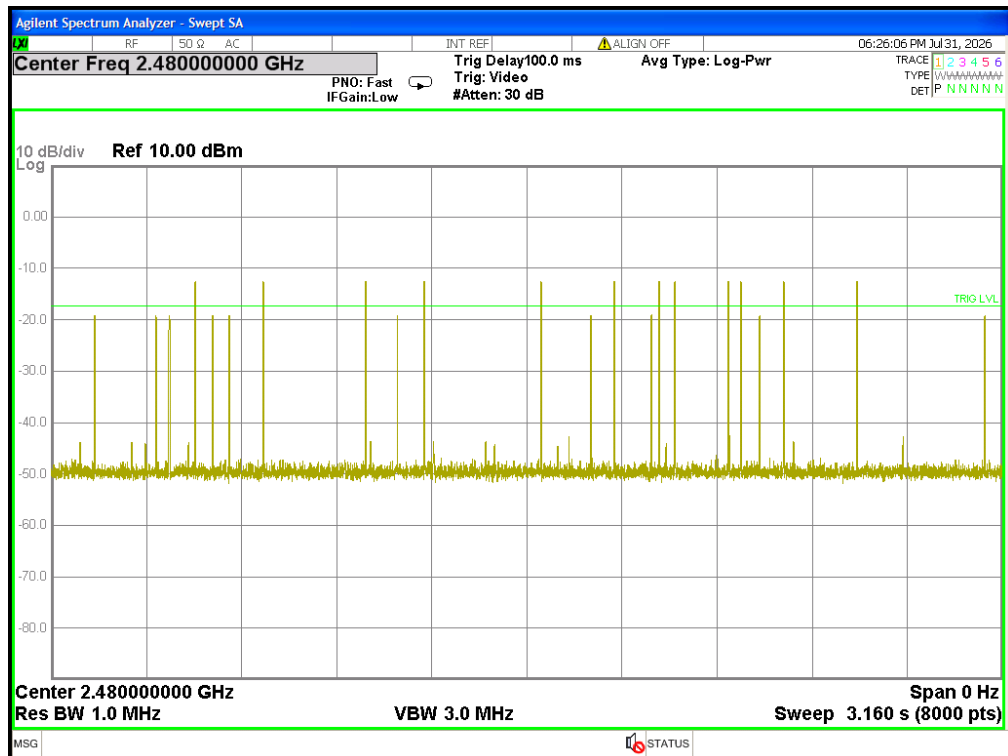
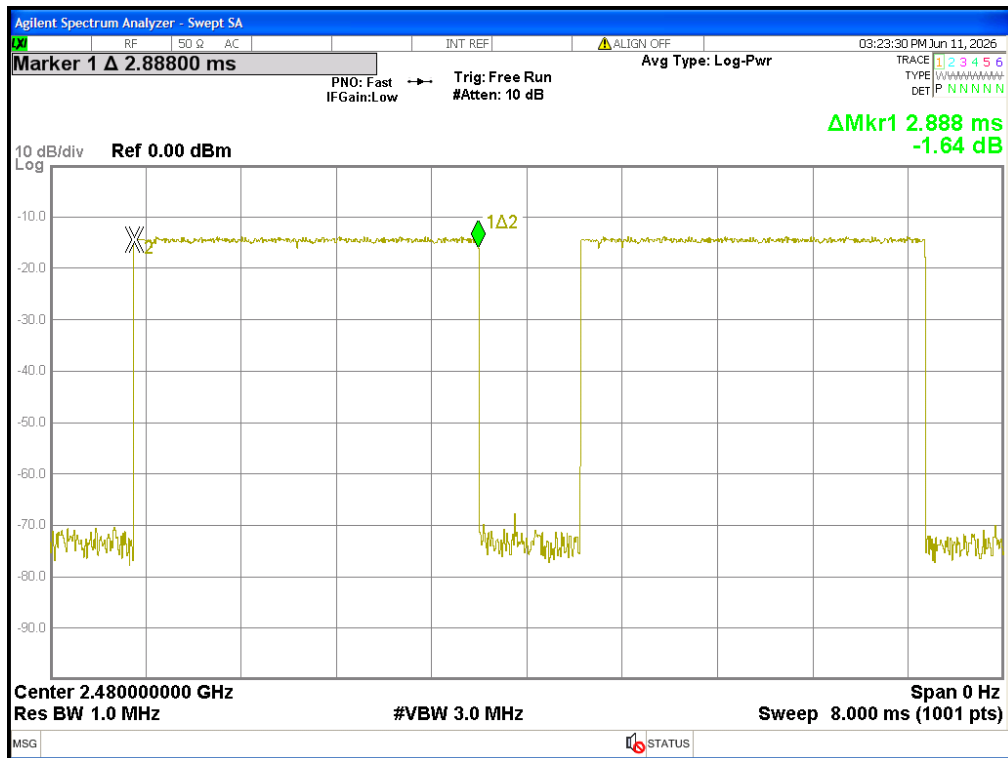


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH5 Channel: 39



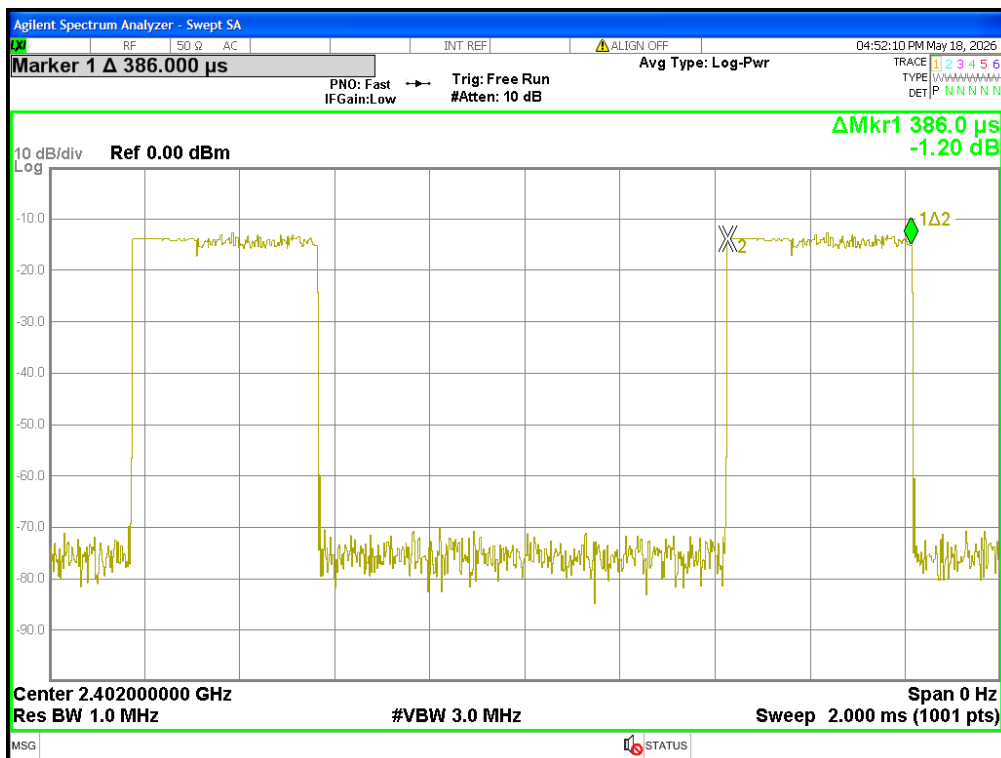


$\pi/4$ -DQPSK (2Mbps) Rate: 2DH5 Channel: 78



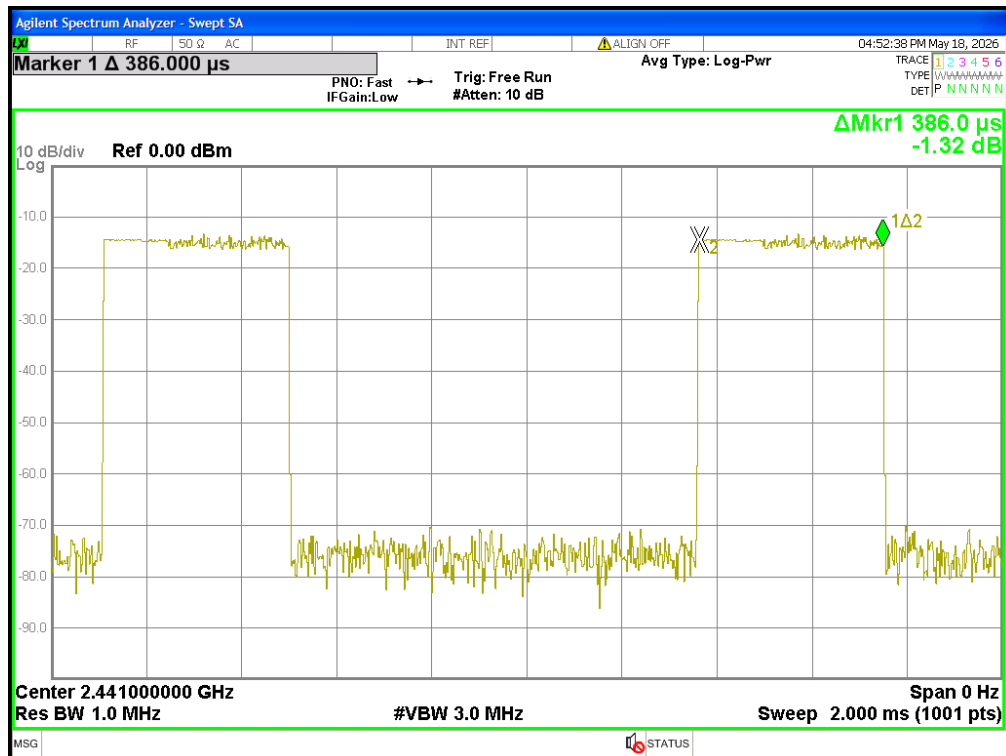


8DPSK (3Mbps) Rate: 3DH1 Channel: 00



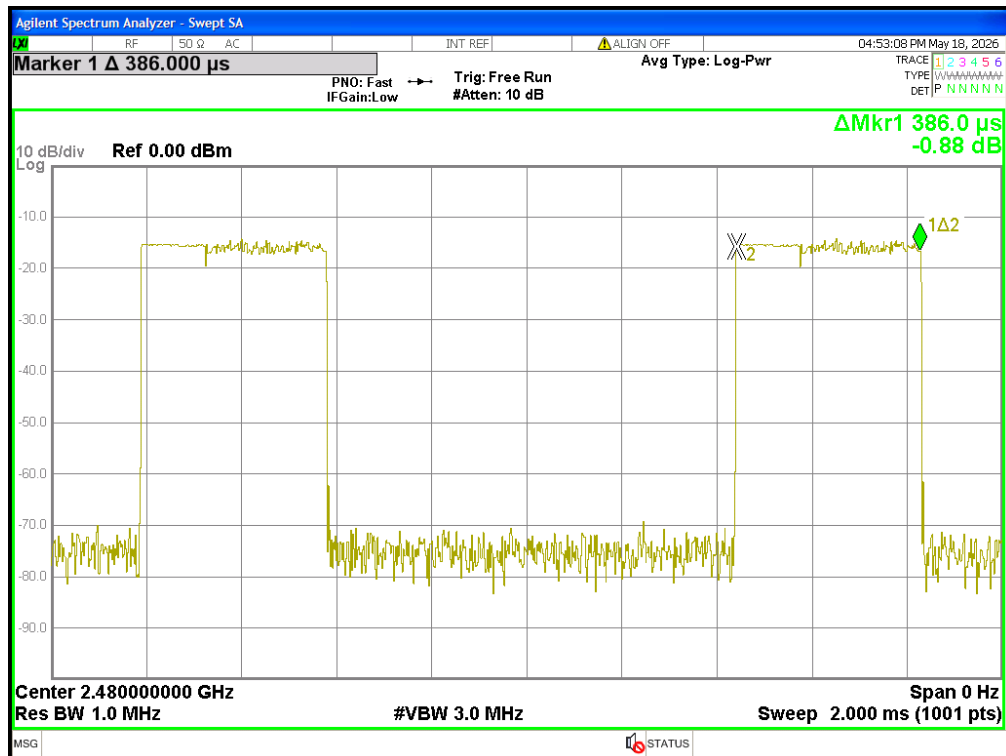


8DPSK (3Mbps) Rate: 3DH1 Channel: 39





8DPSK (3Mbps) Rate: 3DH1 Channel: 78



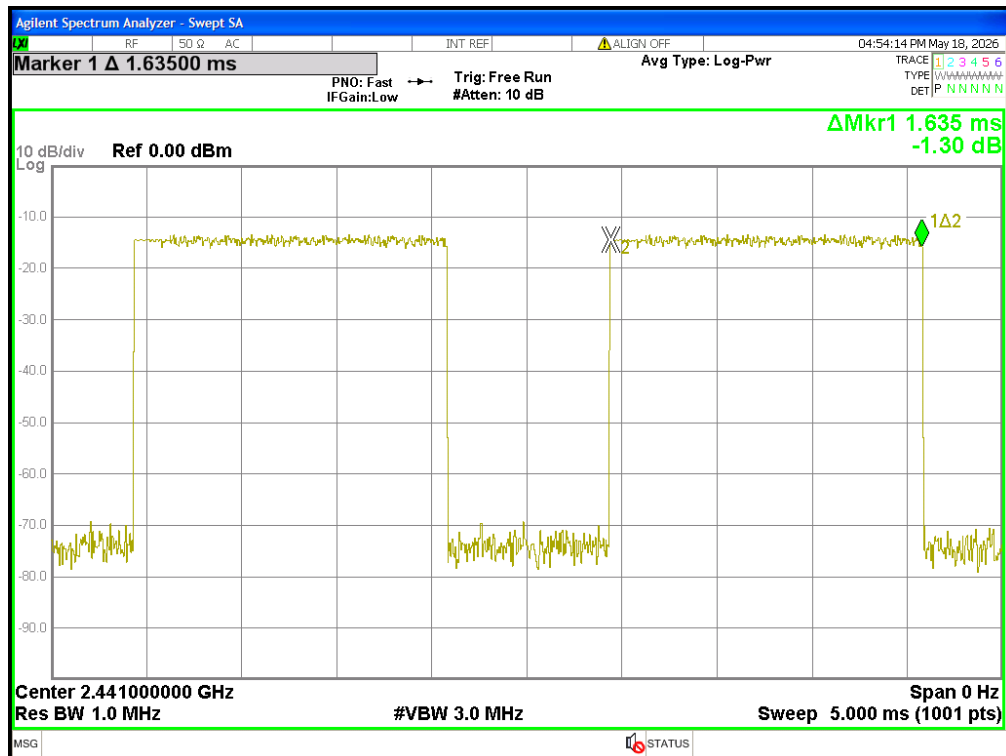


8DPSK (3Mbps) Rate: 3DH3 Channel: 00



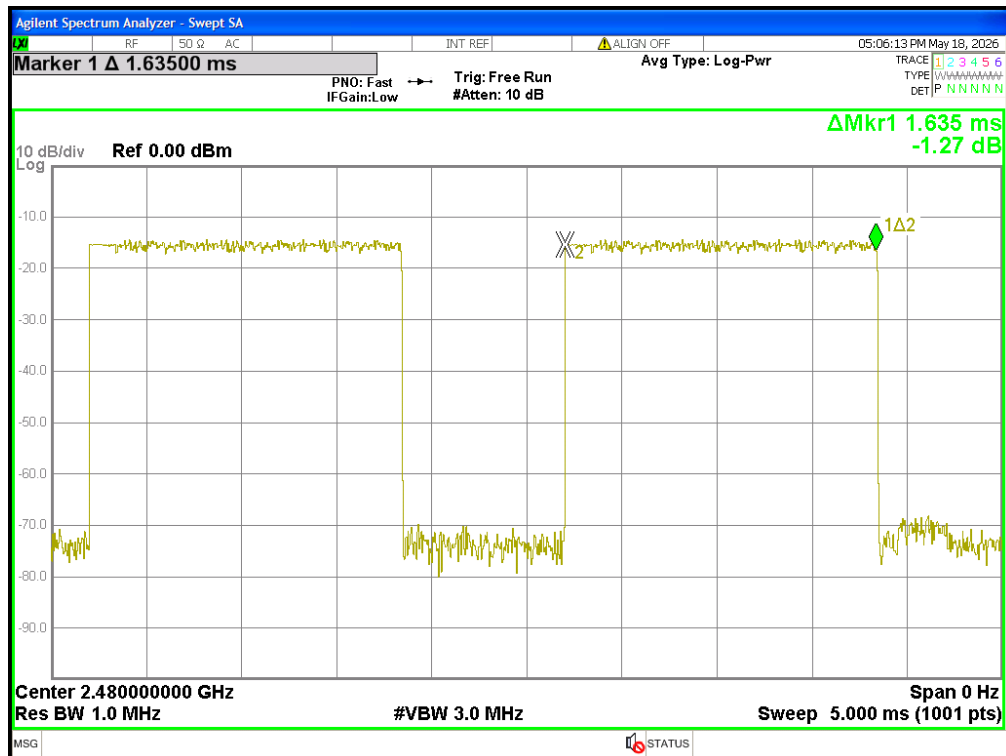


8DPSK (3Mbps) Rate: 3DH3 Channel: 39



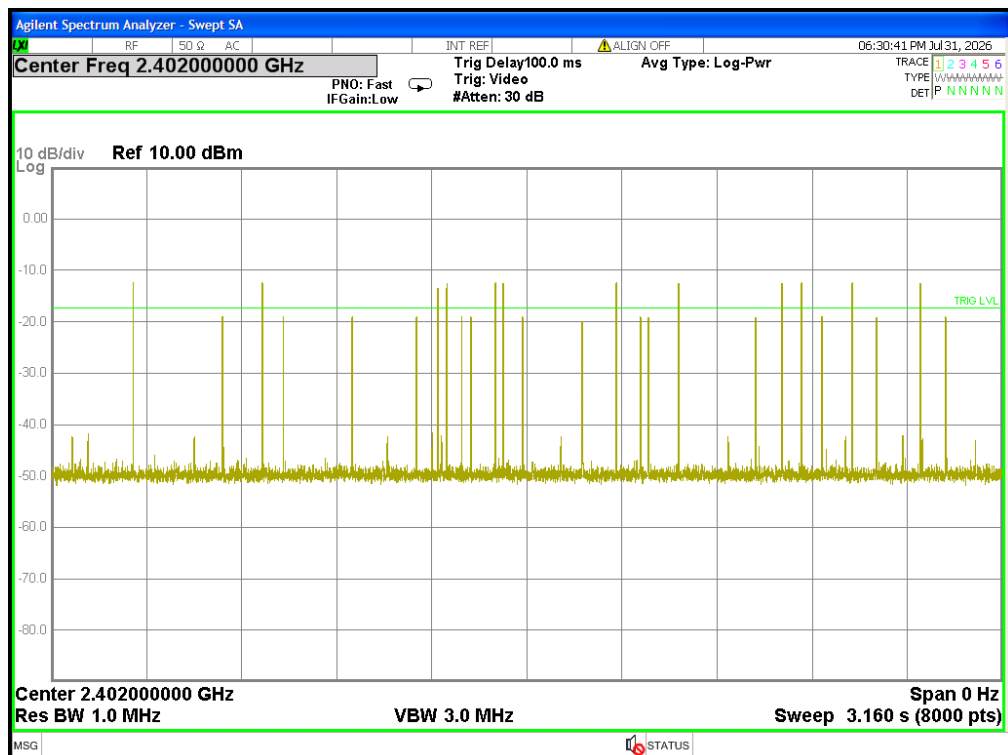
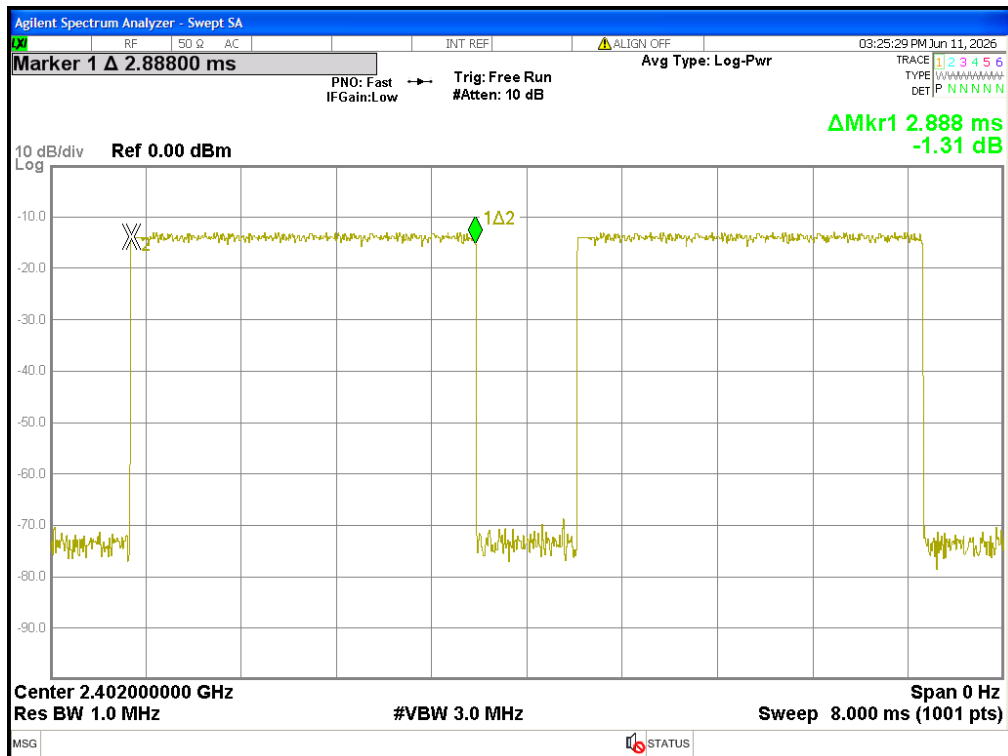


8DPSK (3Mbps) Rate: 3DH3 Channel: 78



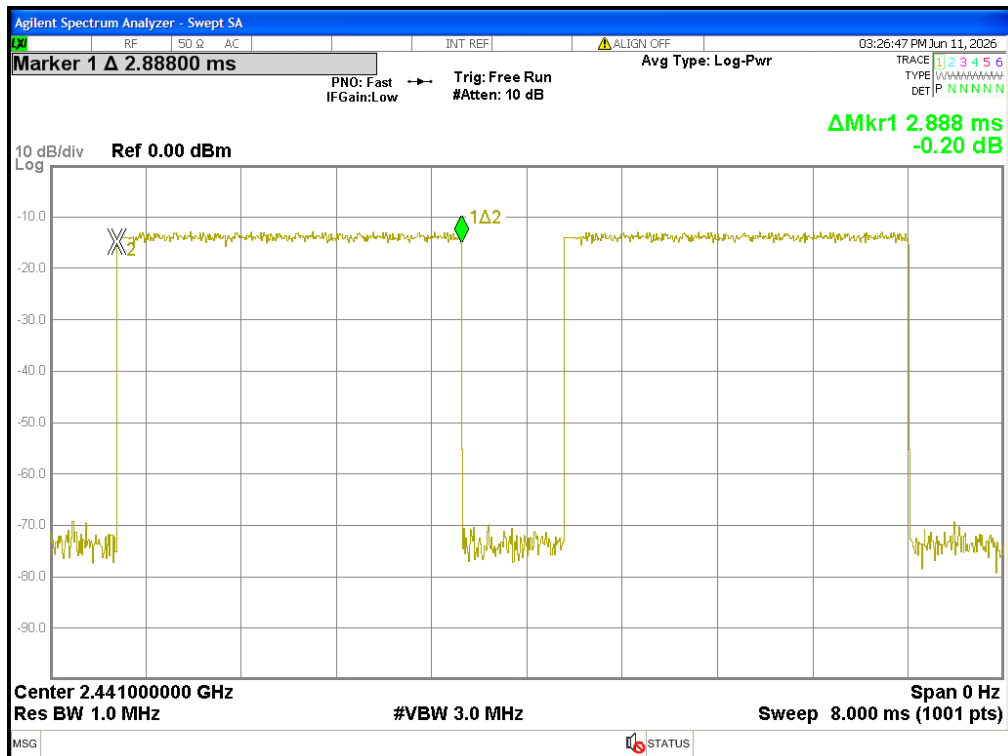


8DPSK (3Mbps) Rate: 3DH5 Channel: 00



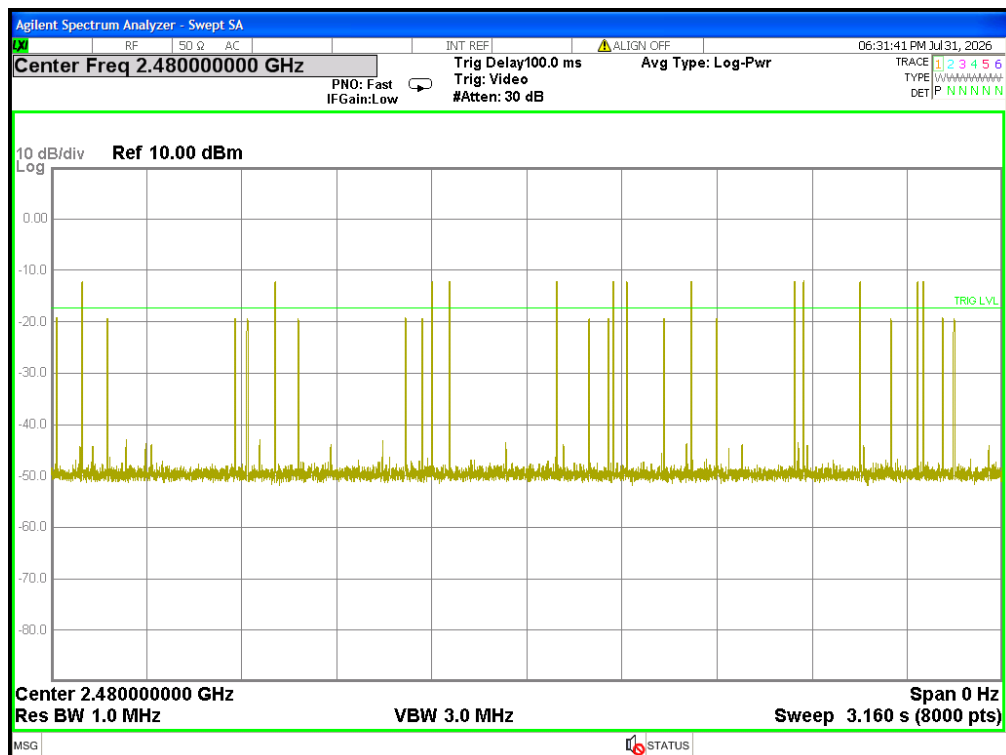
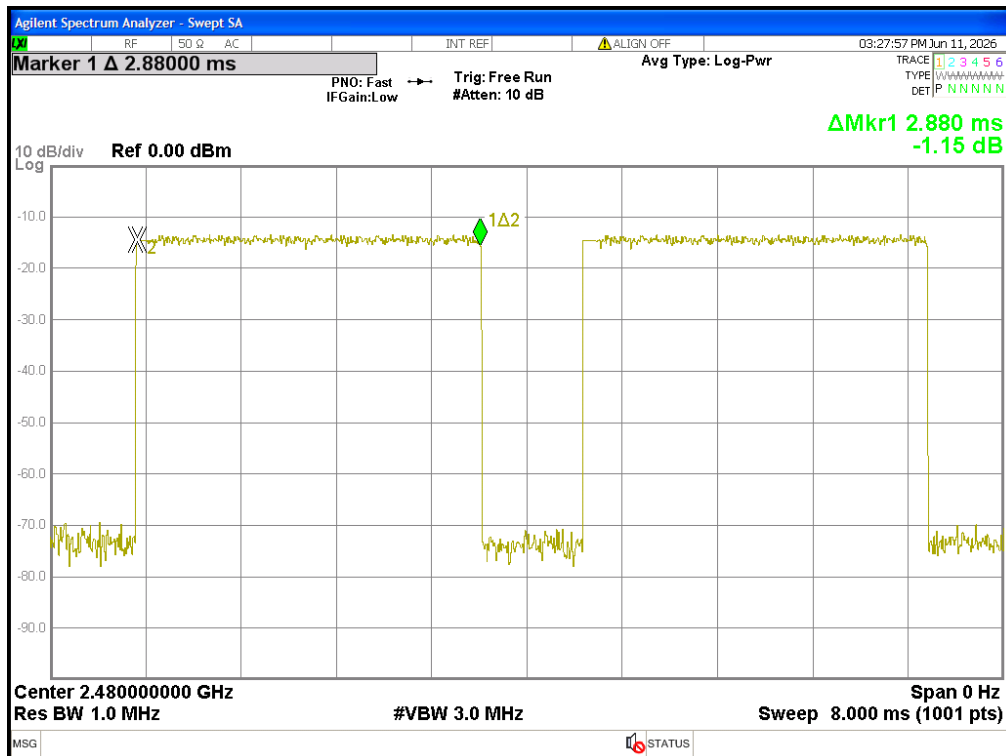


8DPSK (3Mbps) Rate: 3DH5 Channel: 39





8DPSK (3Mbps) Rate: 3DH5 Channel: 78





11. Number of Hopping Channels

11.1 Test Limit

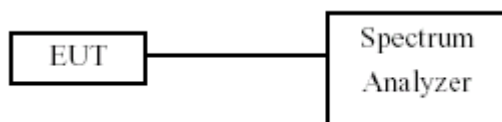
Frequency hopping systems in the 2400 ~ 2483.5 MHz band shall use at least 15 channels.

11.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 kHz and VBW to 100 kHz.
- Set the MaxHold function, and then keep the EUT in hopping mode.

Record all the signals from each channel until each one has been record.

11.3 Test Setup Layout



11.4 Test Result and Data

Test Date: 2026.05.18

Temperature: 24°C

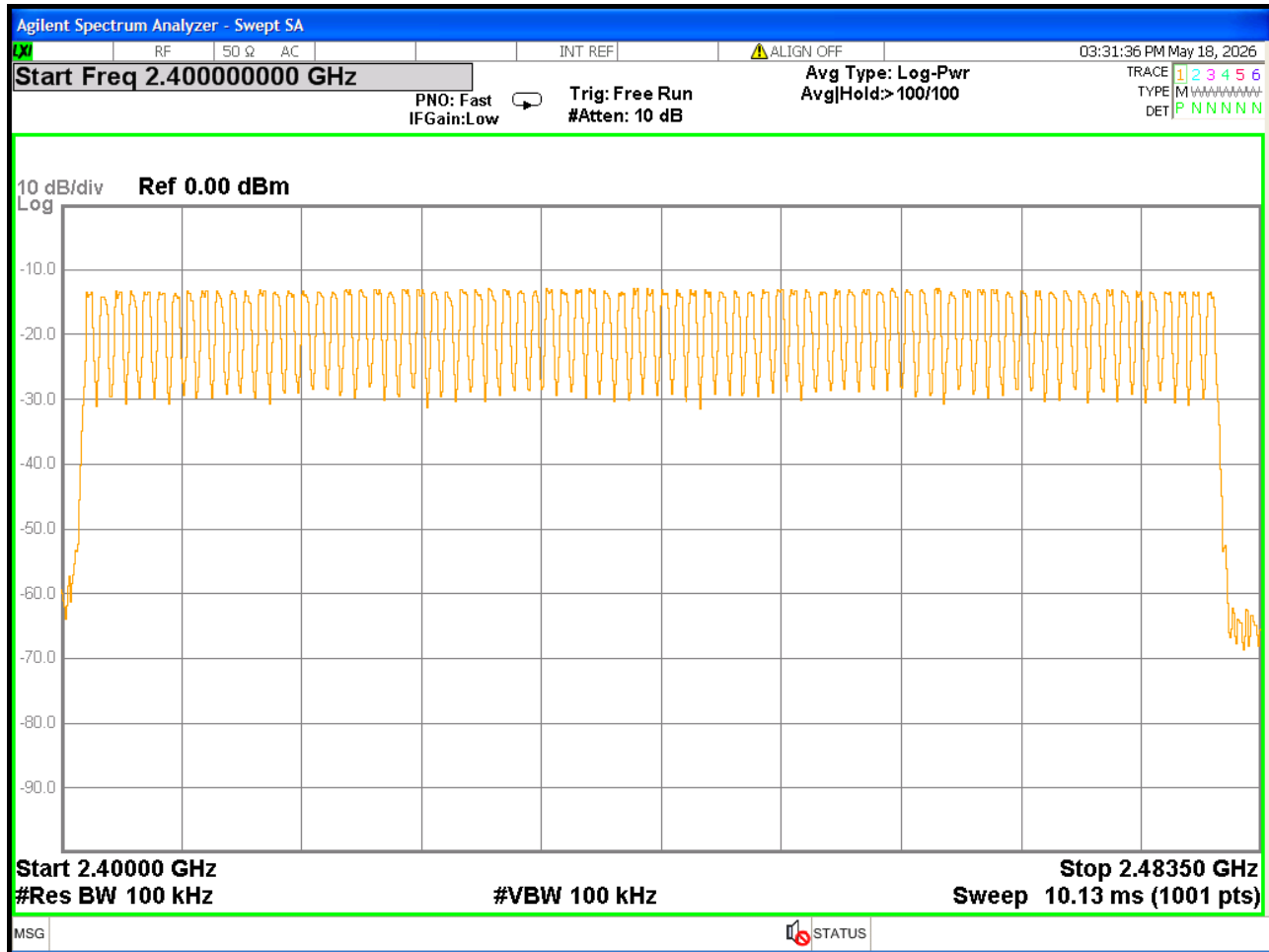
Atmospheric pressure: 1012 hPa

Humidity: 51%

Modulation Standard	Hopping Channels
GFSK (1Mbps)	79
$\pi/4$ -DQPSK (2Mbps)	79
8DPSK (3Mbps)	79

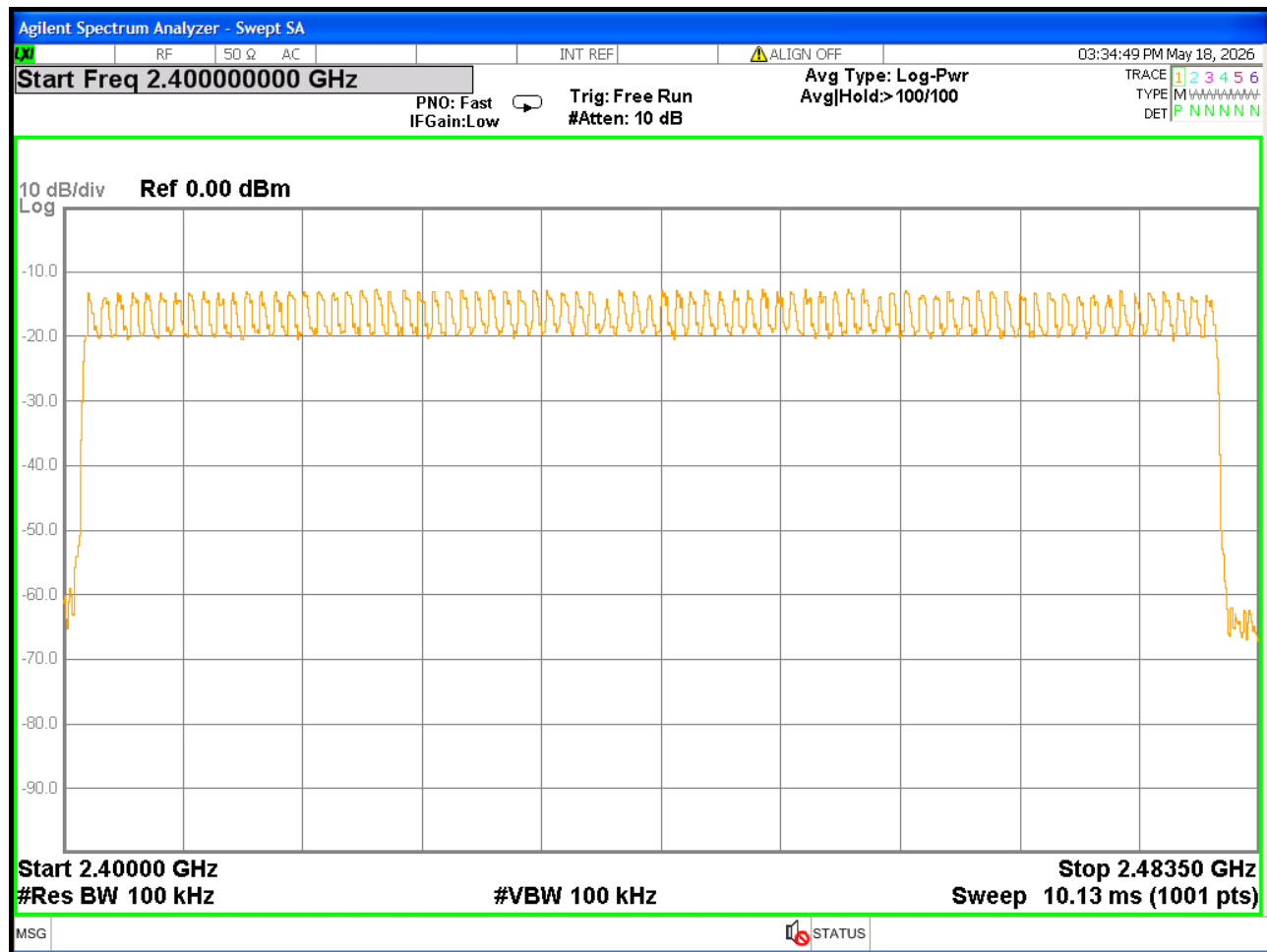


GFSK (1Mbps)



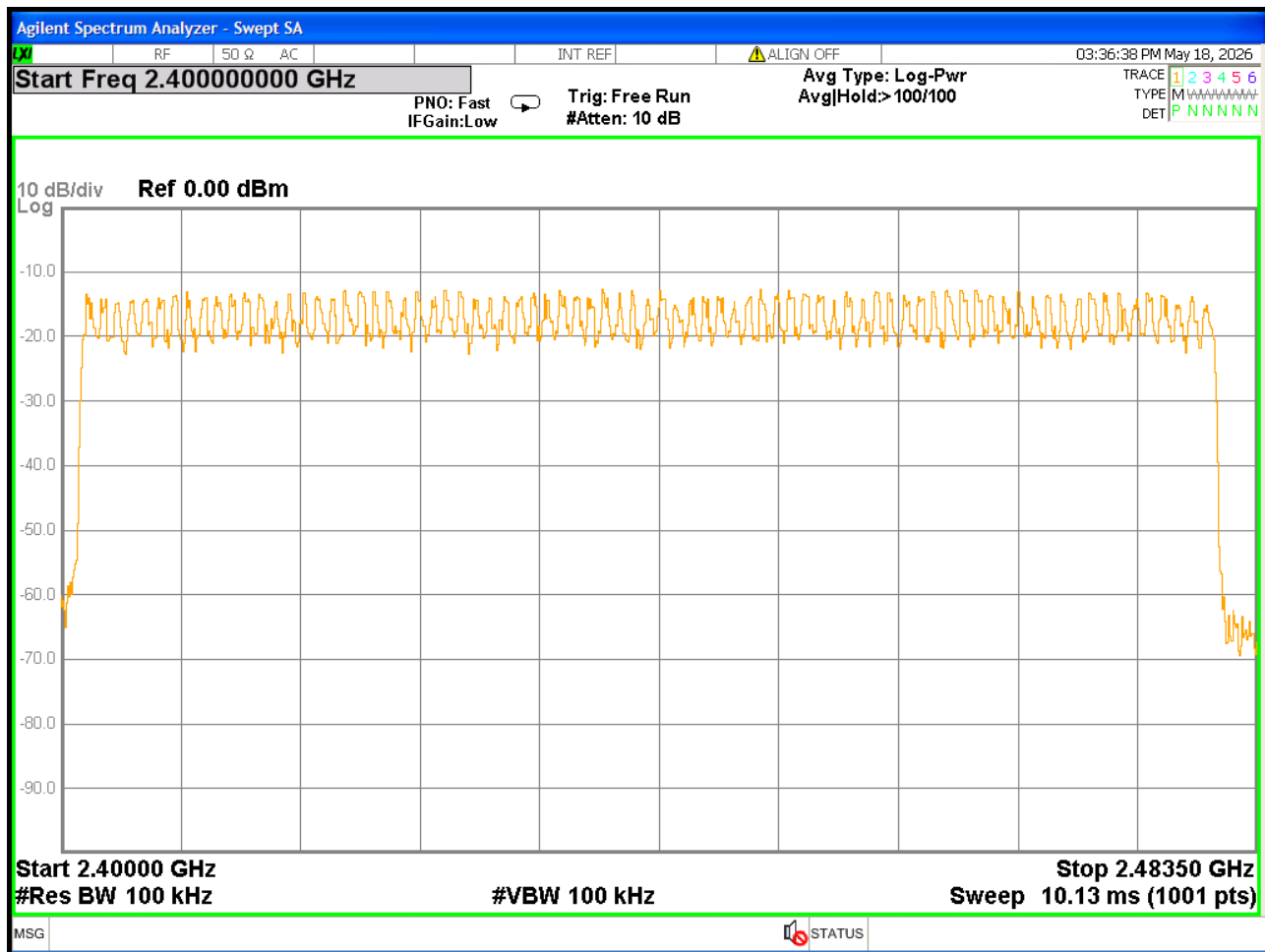


$\pi/4$ -DQPSK (2Mbps)





8DPSK (3Mbps)





12. Maximum Peak Output Power

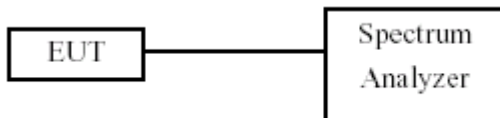
12.1 Test Limit

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

12.2 Test Procedures

The transmitter output was connected to the spectrum analyzer. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

12.3 Test Setup Layout



12.4 Test Result and Data

Test Date: 2026.05.18

Temperature: 24°C

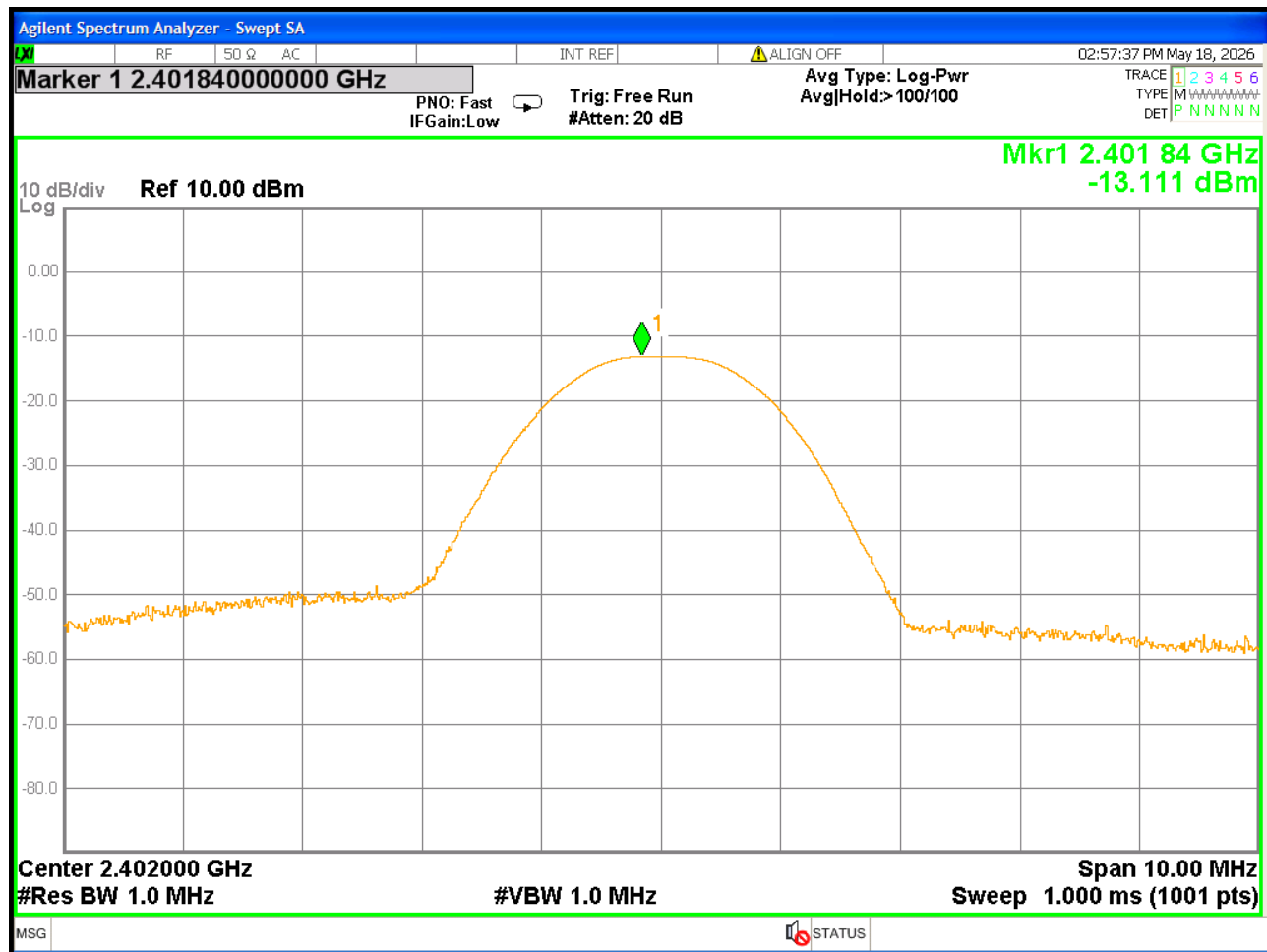
Atmospheric pressure: 1012 hPa

Humidity: 51%

Modulation Standard	Channel	Frequency (MHz)	Output Power (dBm)
GFSK (1Mbps)	00	2402	-13.111
	39	2441	-13.049
	78	2480	-13.435
$\pi/4$ -DQPSK (2Mbps)	00	2402	-12.571
	39	2441	-12.387
	78	2480	-12.140
8DPSK (3Mbps)	00	2402	-12.076
	39	2441	-11.966
	78	2480	-11.893

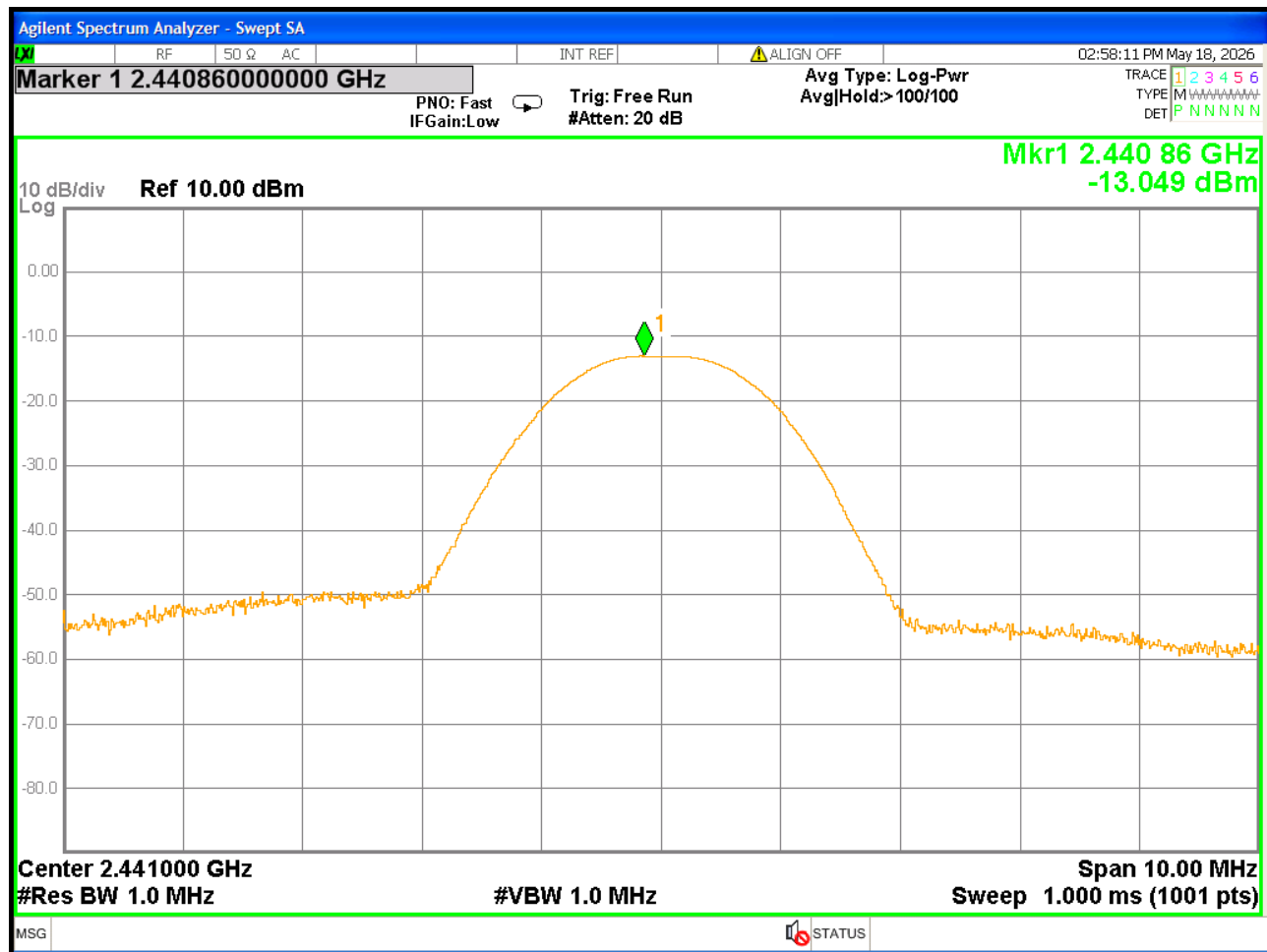


GFSK (1Mbps) Channel: 00



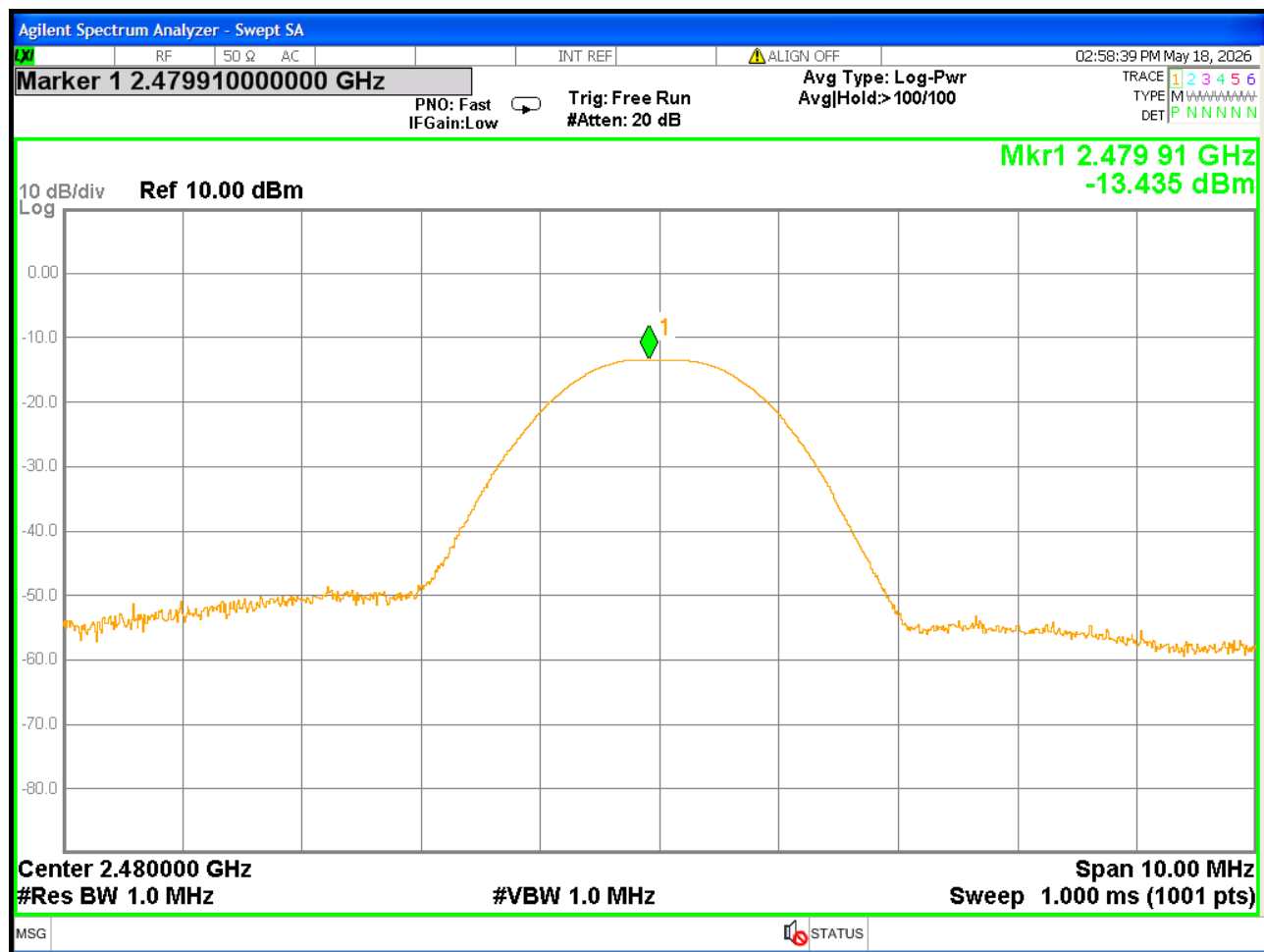


GFSK (1Mbps) Channel: 39



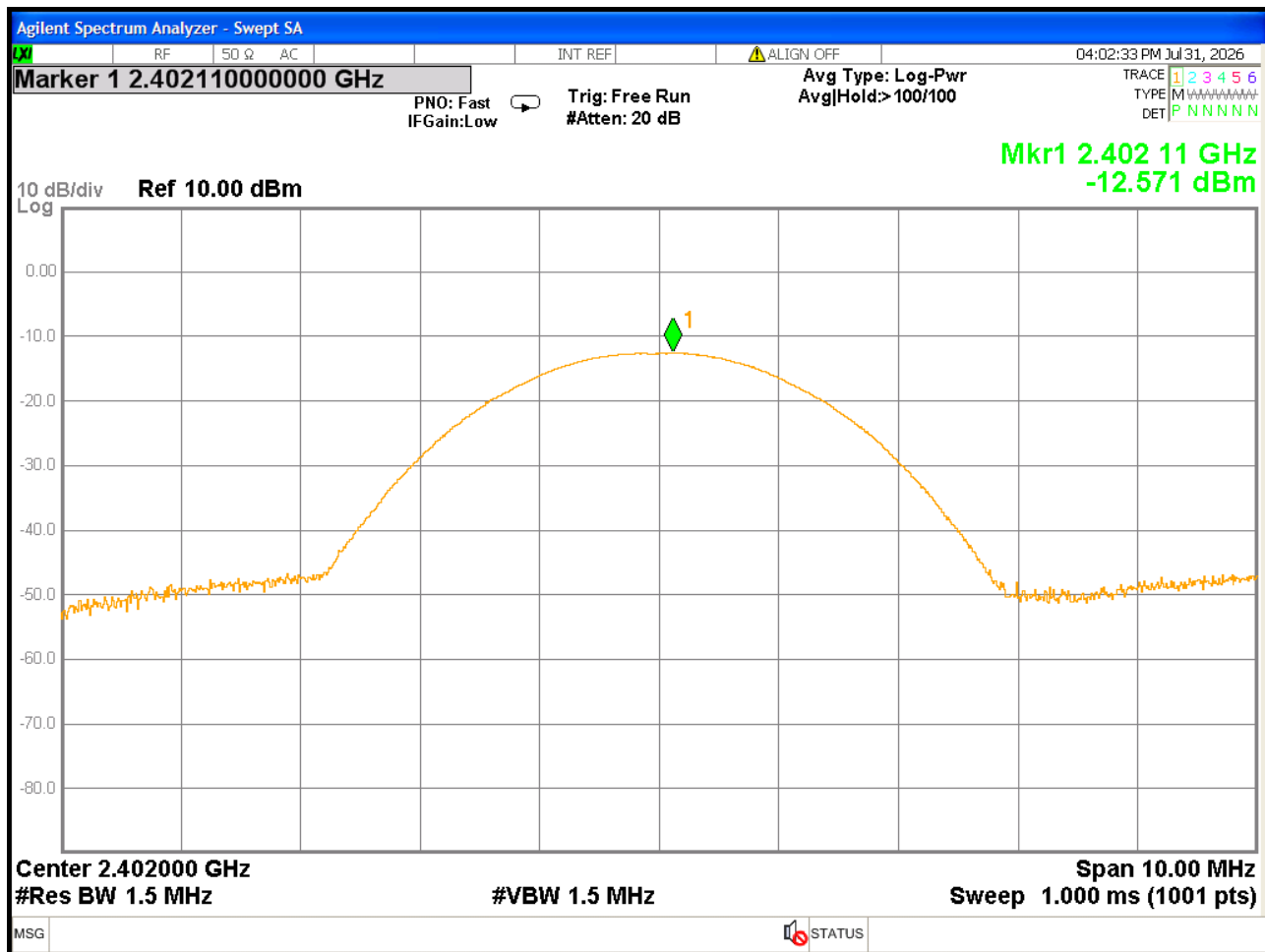


GFSK (1Mbps) Channel: 78



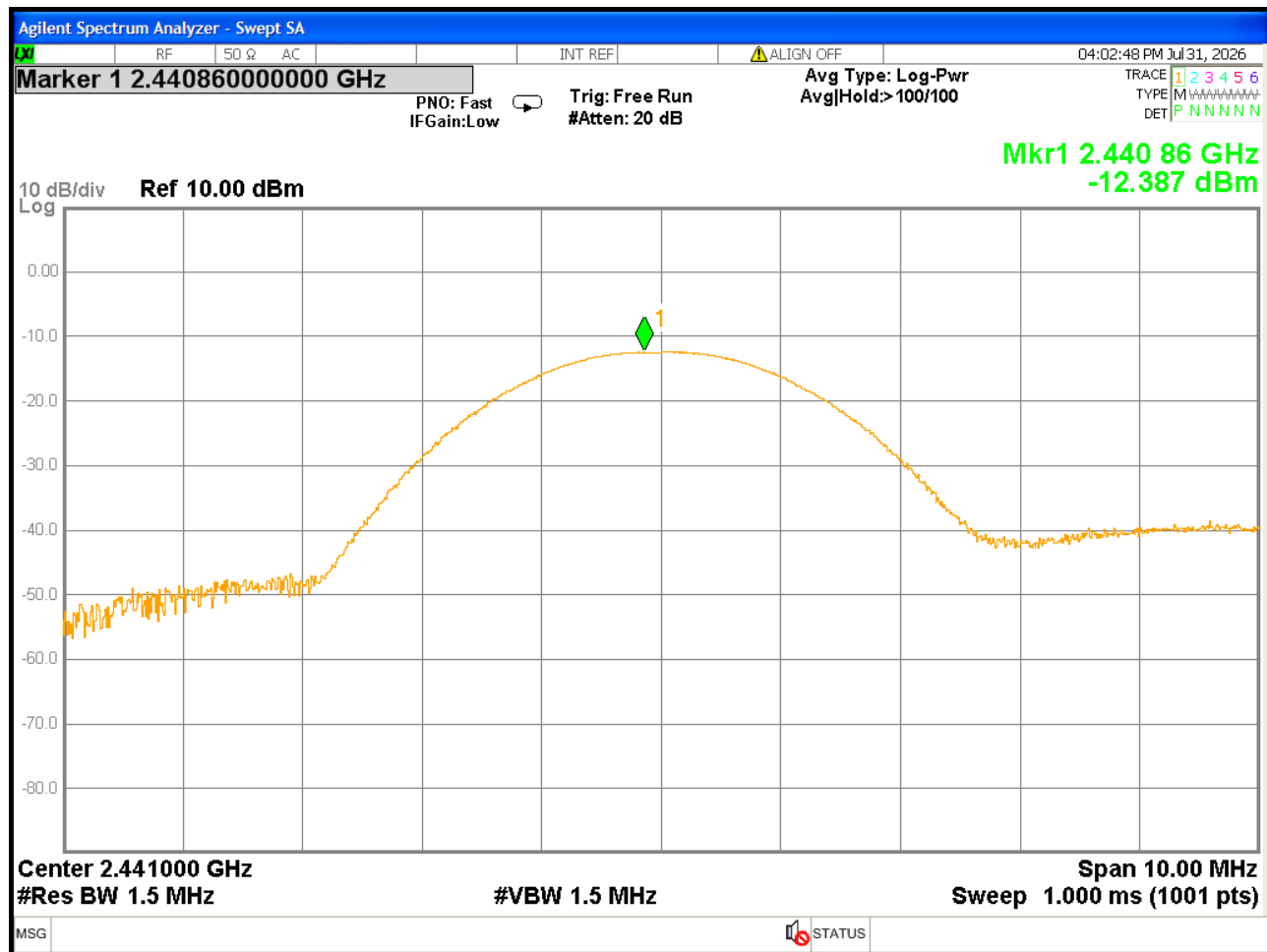


$\pi/4$ -DQPSK (2Mbps) Channel: 00



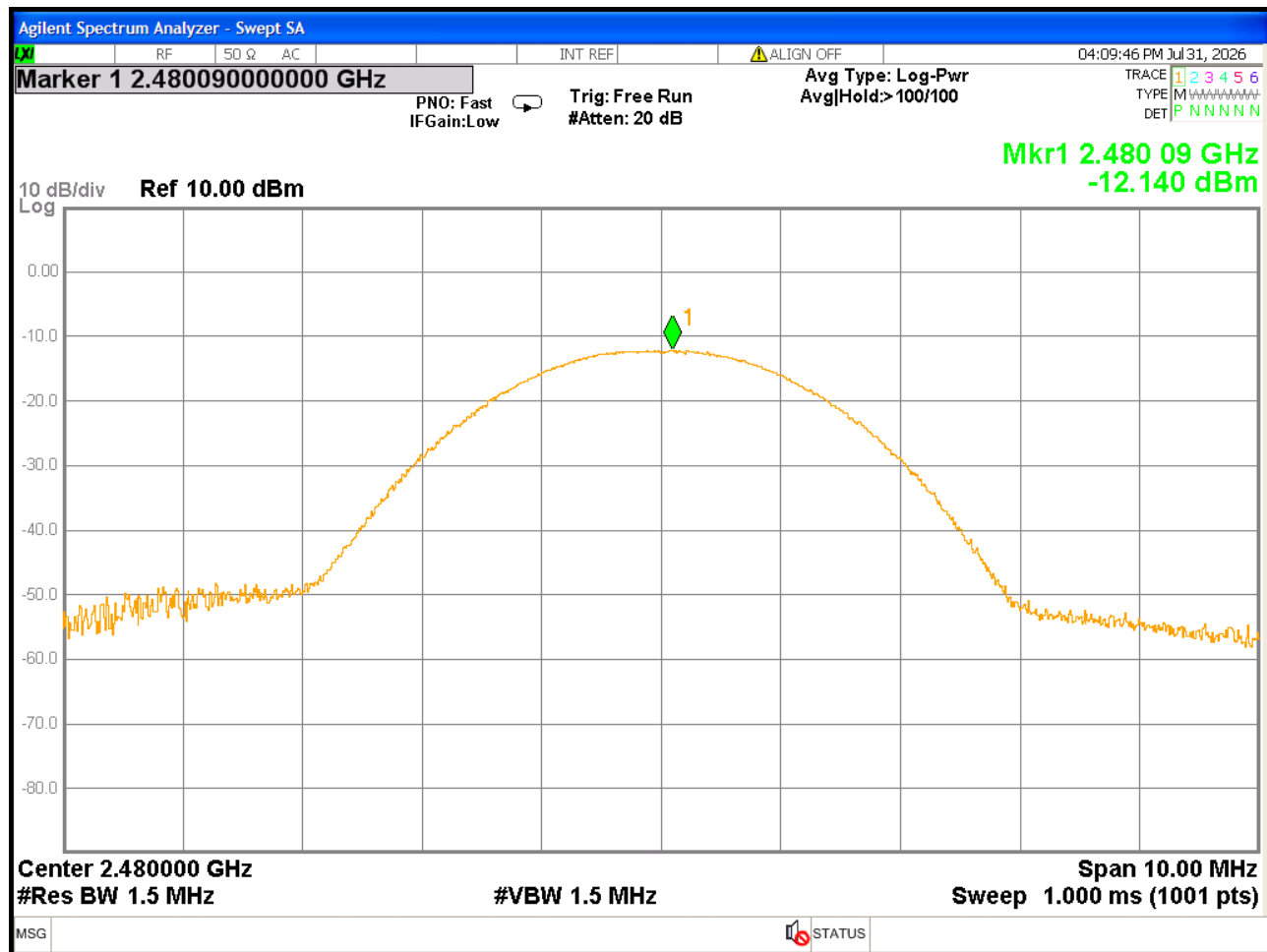


$\pi/4$ -DQPSK (2Mbps) Channel: 39



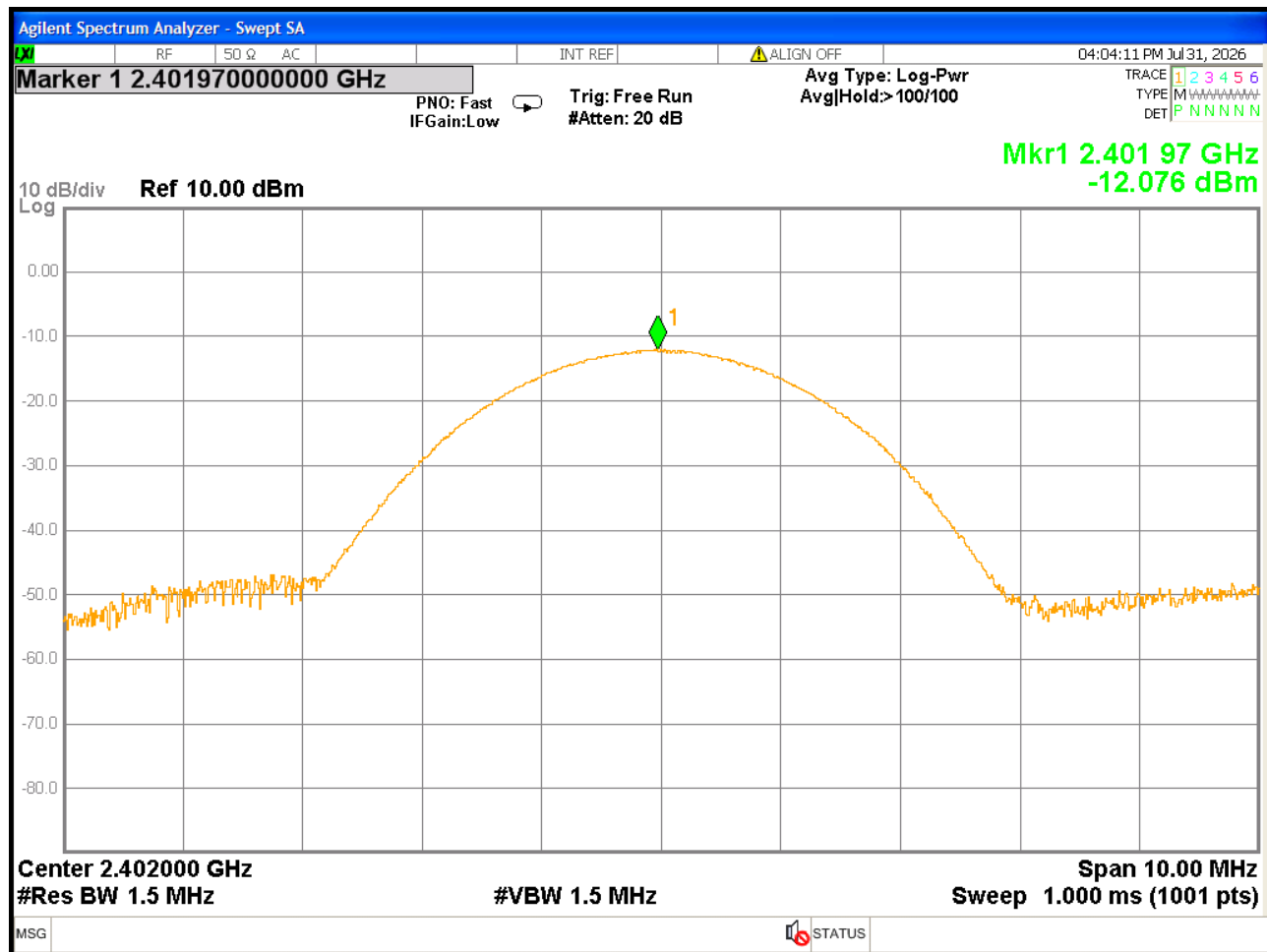


$\pi/4$ -DQPSK (2Mbps) Channel: 78



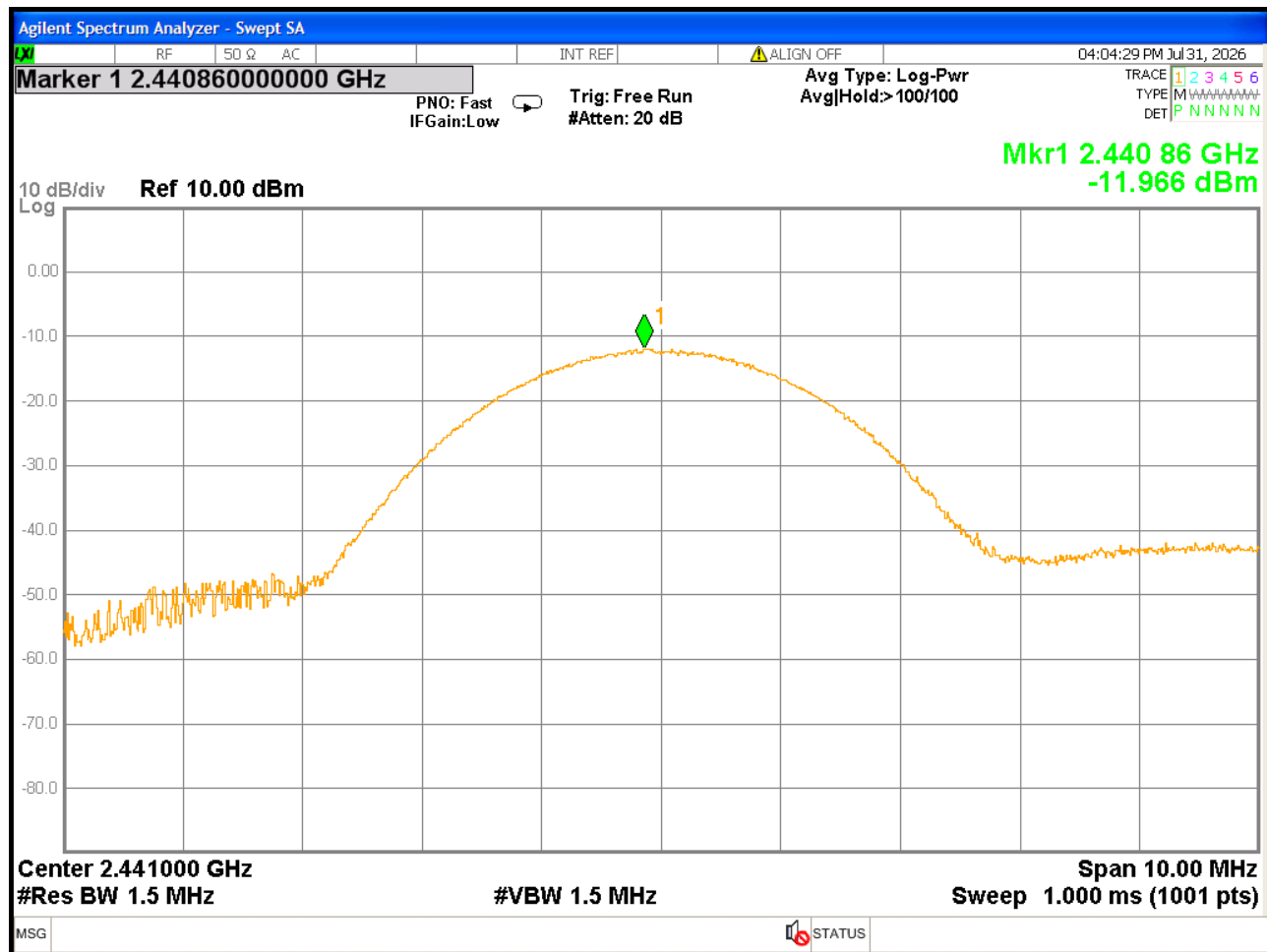


8DPSK (3Mbps) Channel: 00



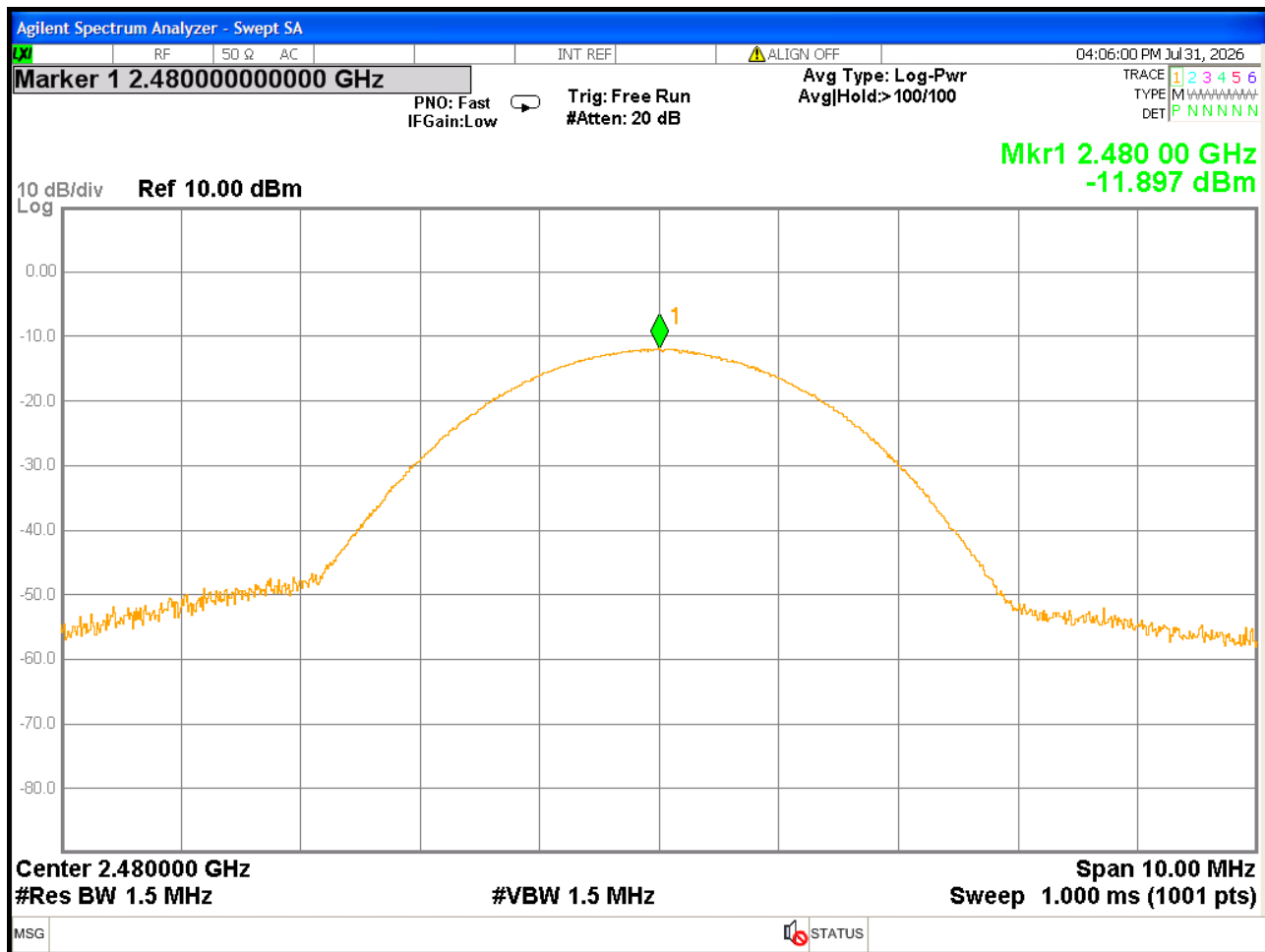


8DPSK (3Mbps) Channel: 39





8DPSK (3Mbps) Channel: 78





13. Band Edges Measurement

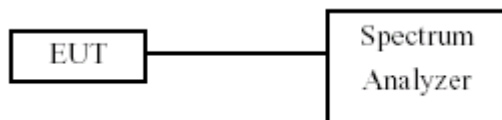
13.1 Test Limit

Below – 20 dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

13.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set RBW of spectrum analyzer to 100 kHz.
- Set VBW of spectrum analyzer to 300 kHz.
- The band edges was measured and recorded.

13.3 Test Setup Layout



13.4 Test Result and Data

Test Date: 2026.05.18

Temperature: 24°C

Atmospheric pressure: 1012 hPa

Humidity: 51%

Modulation Standard	Channel	Frequency (MHz)	maximum value in frequency (MHz)	maximum value (dBm)
GFSK (1Mbps)	00	2402	2399.2	-59.95
	78	2480	2503.8	-61.03
$\pi/4$ -DQPSK (2Mbps)	00	2402	2377.8	-57.36
	78	2480	2503.8	-61.28
8DPSK (3Mbps)	00	2402	2377.9	-58.66
	78	2480	2504.1	-62.80



Hopping Band Edges				
Modulation Type	Channel	Frequency (MHz)	Maximum Value In Frequency (MHz)	Maximum Value (dBm)
GFSK	0	2402	2400.0	-59.44
	78	2480	2487.9	-61.53
$\pi/4$ -DQPSK	0	2402	2399.0	-61.78
	78	2480	2495.9	-61.81
8DPSK	0	2402	2400.0	-65.03
	78	2480	2483.9	-62.64

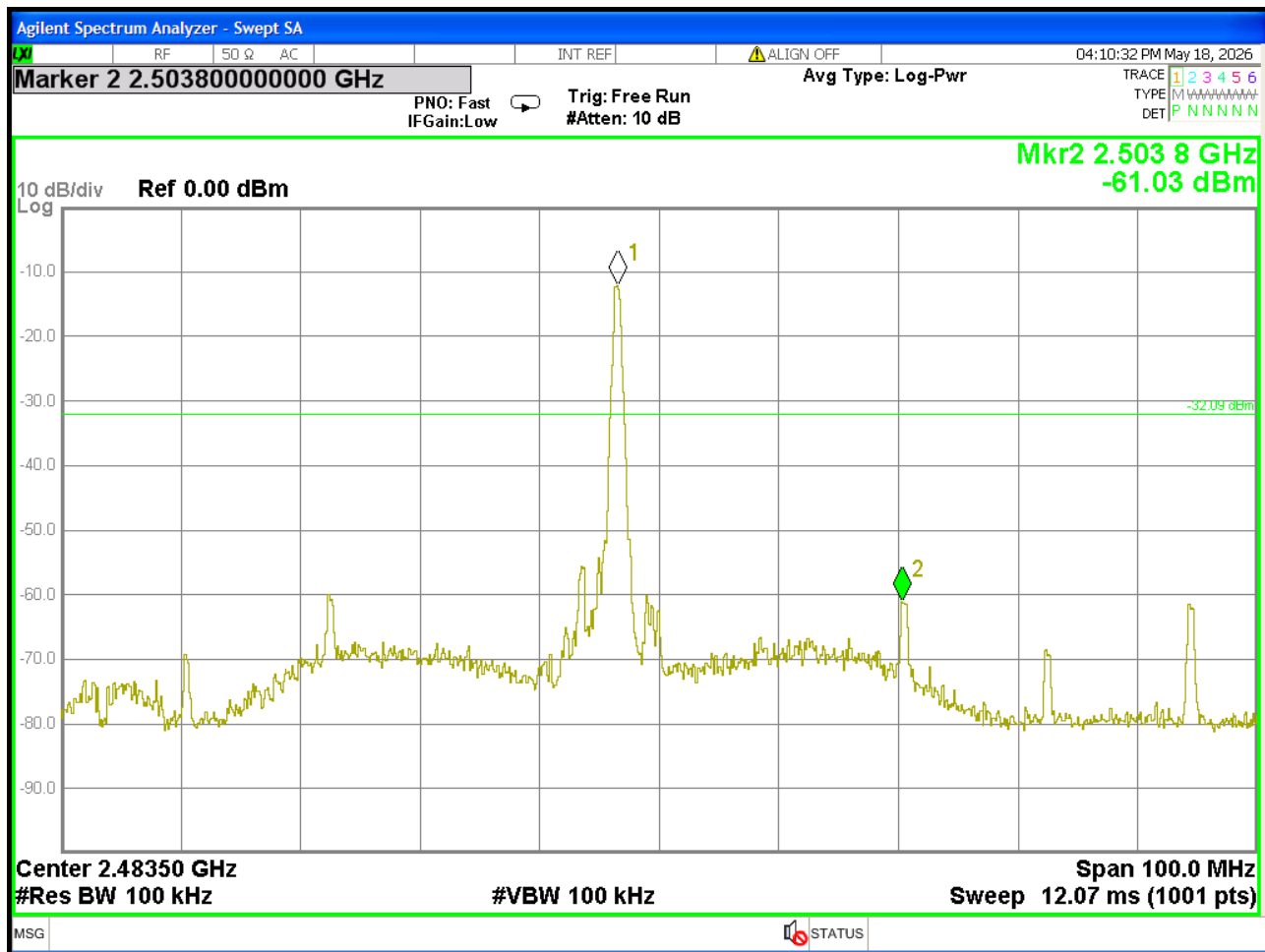


GFSK (1Mbps) Channel: 00



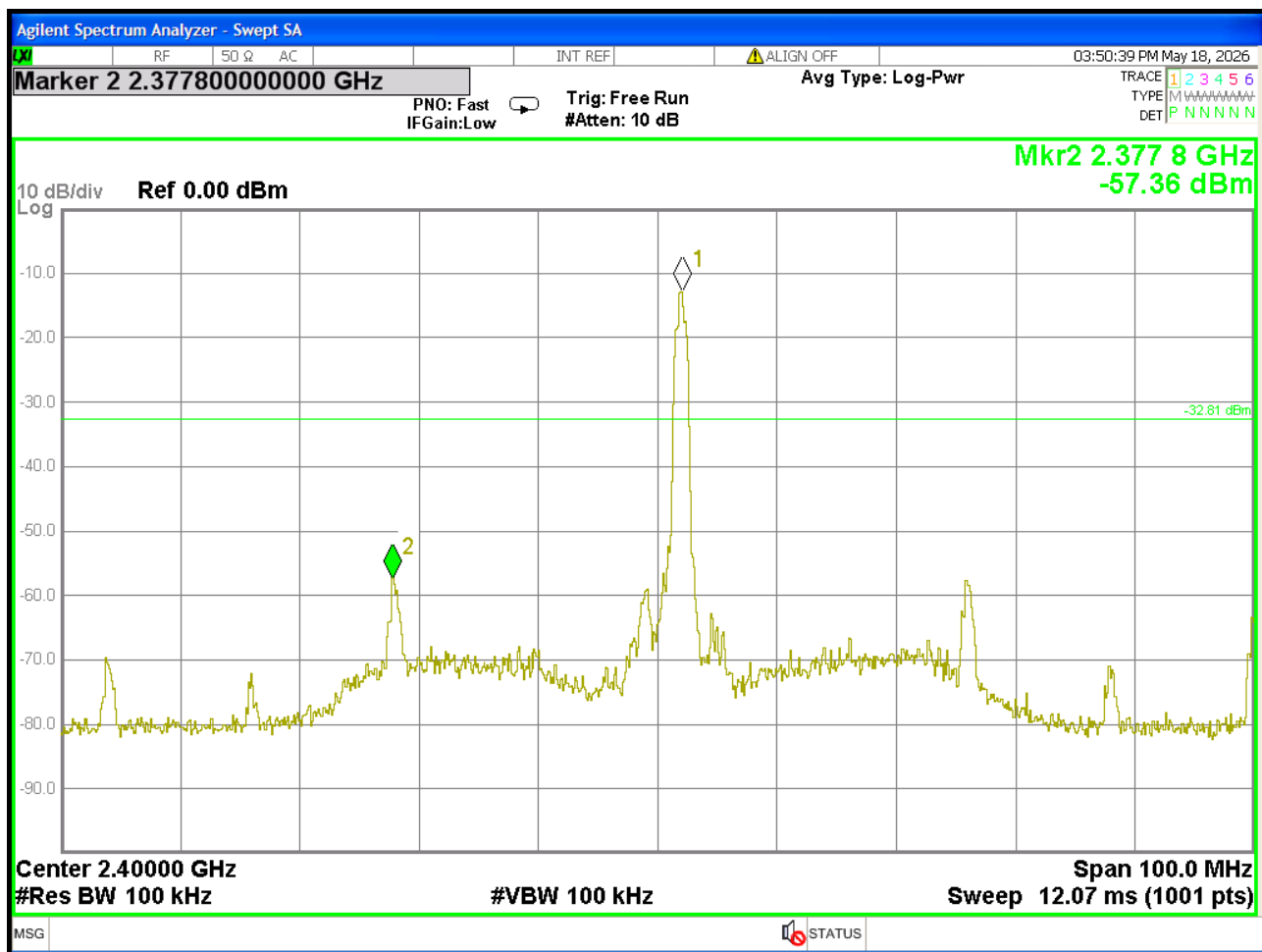


GFSK (1Mbps) Channel: 78



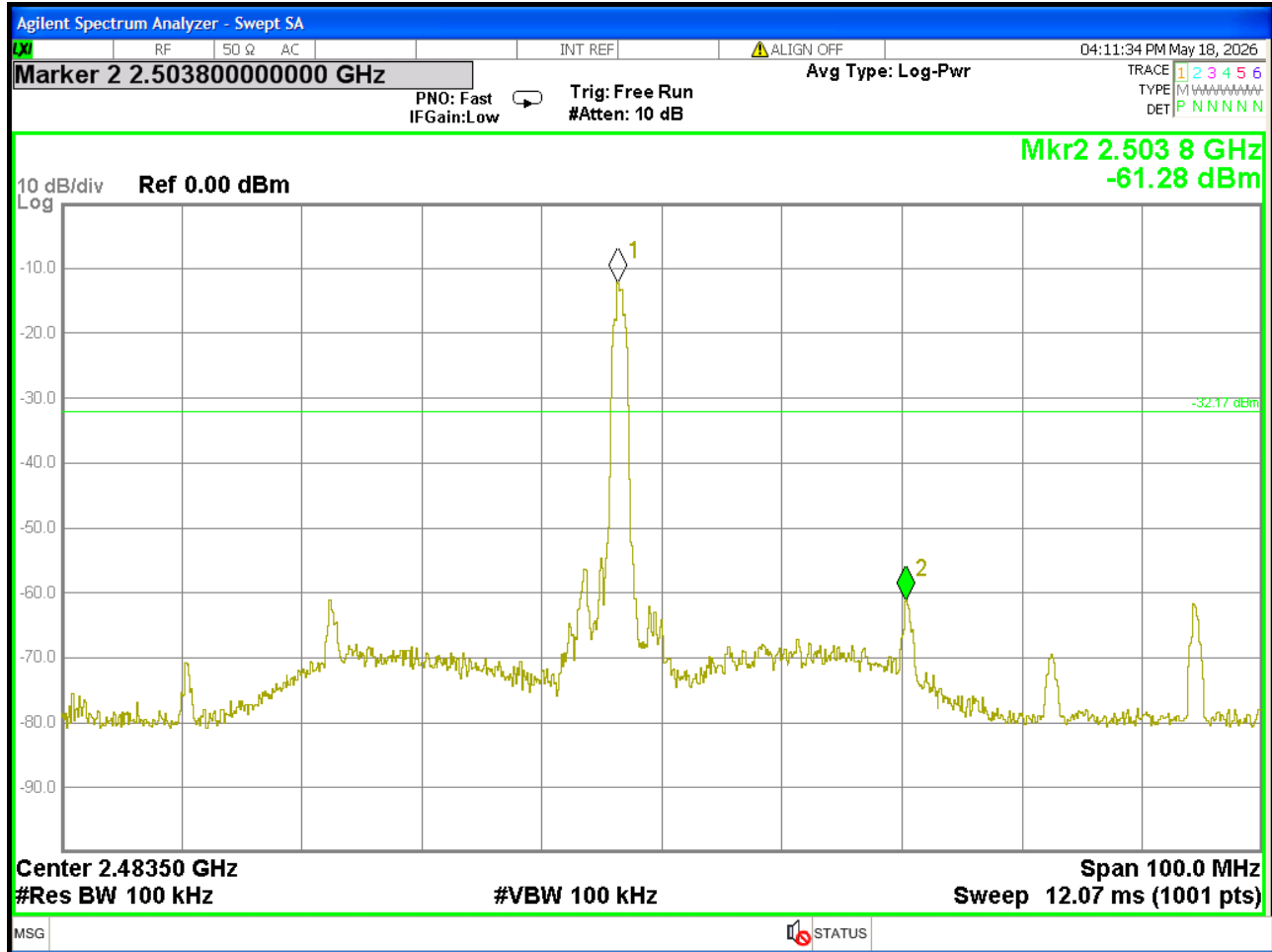


$\pi/4$ -DQPSK (2Mbps) Channel: 00



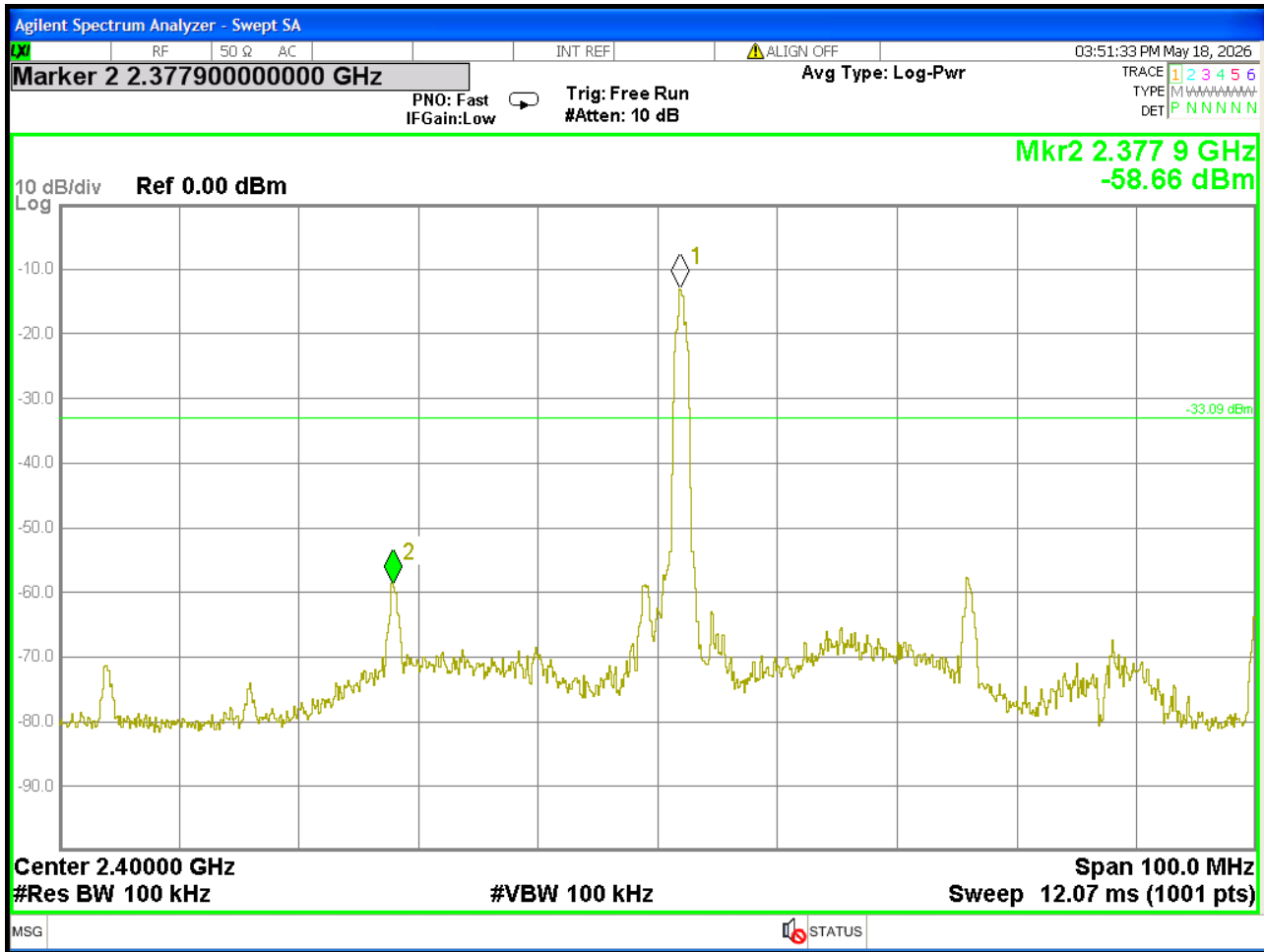


$\pi/4$ -DQPSK (2Mbps) Channel: 78



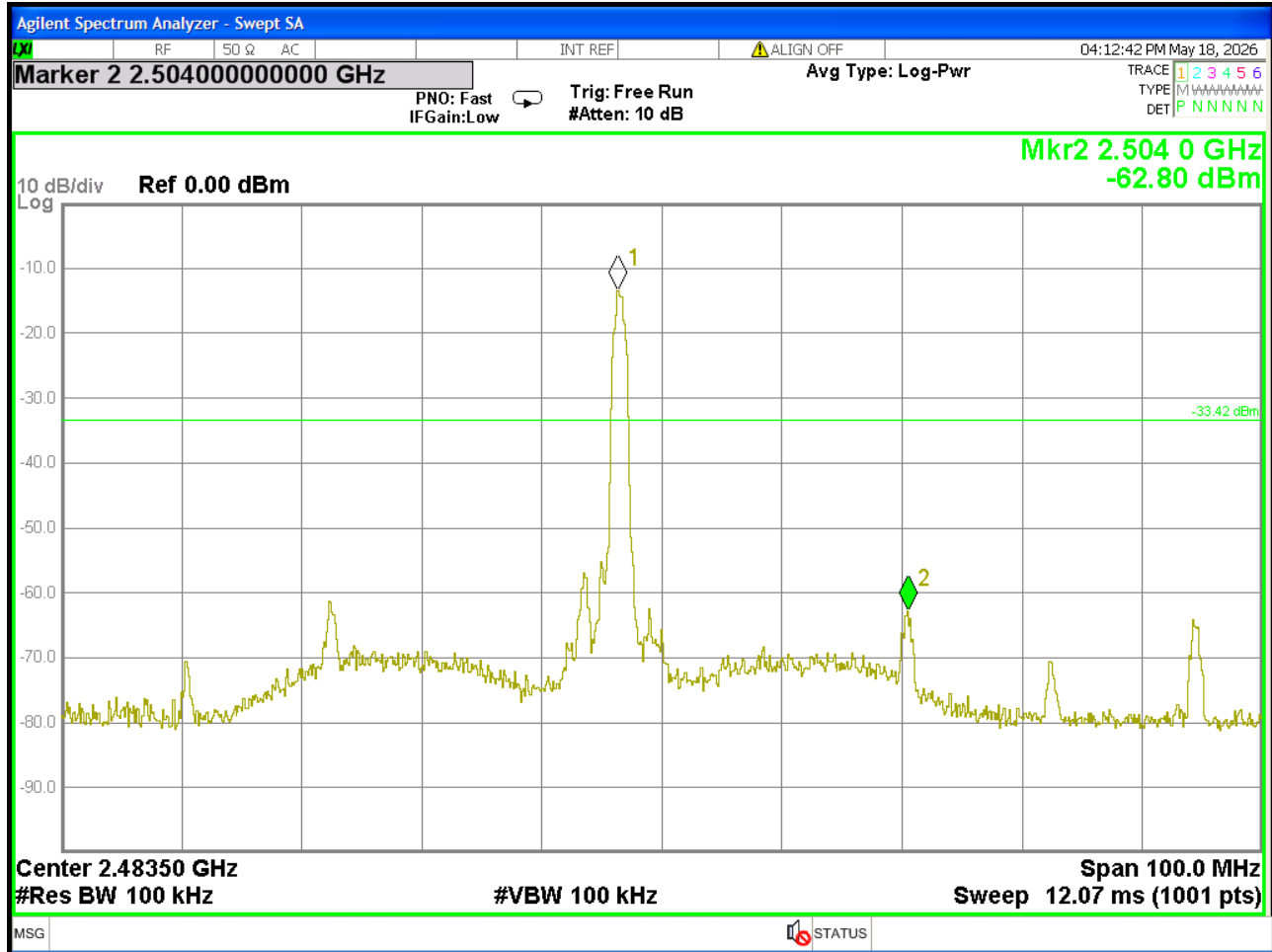


8DPSK (3Mbps) Channel: 00



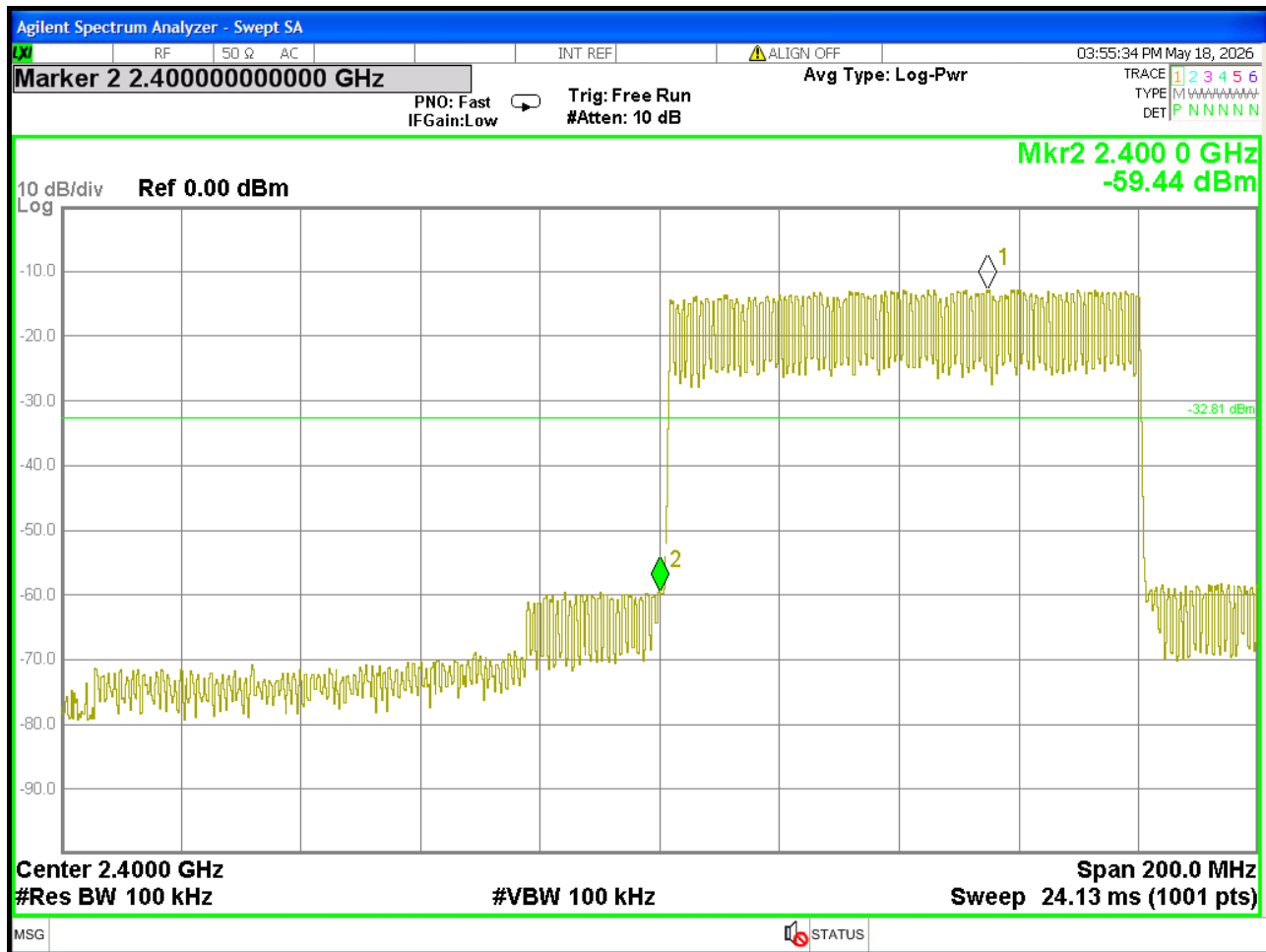


8DPSK (3Mbps) Channel: 78



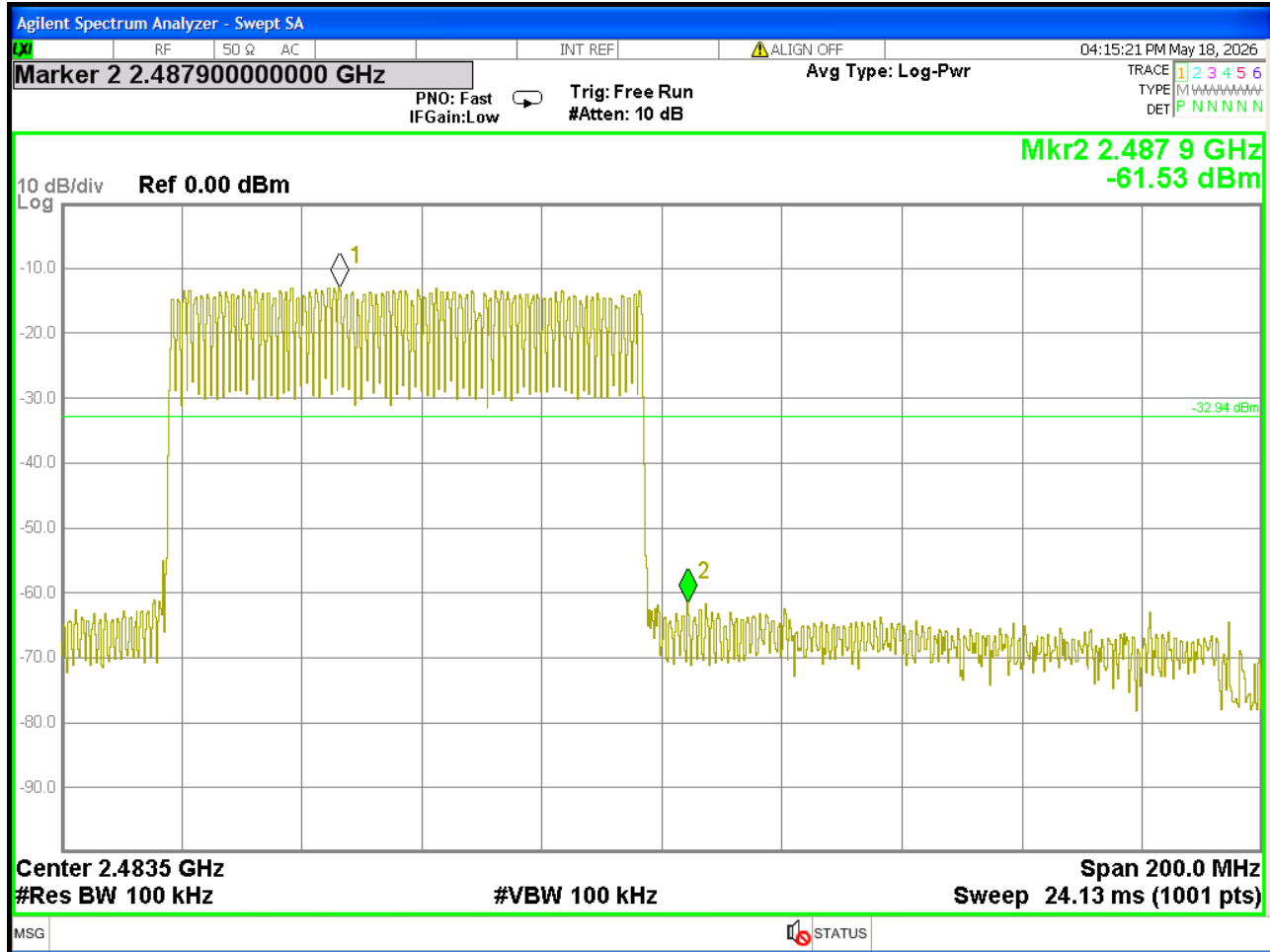
13.5 hopping enabled mode

GFSK (1Mbps) Left Band edge



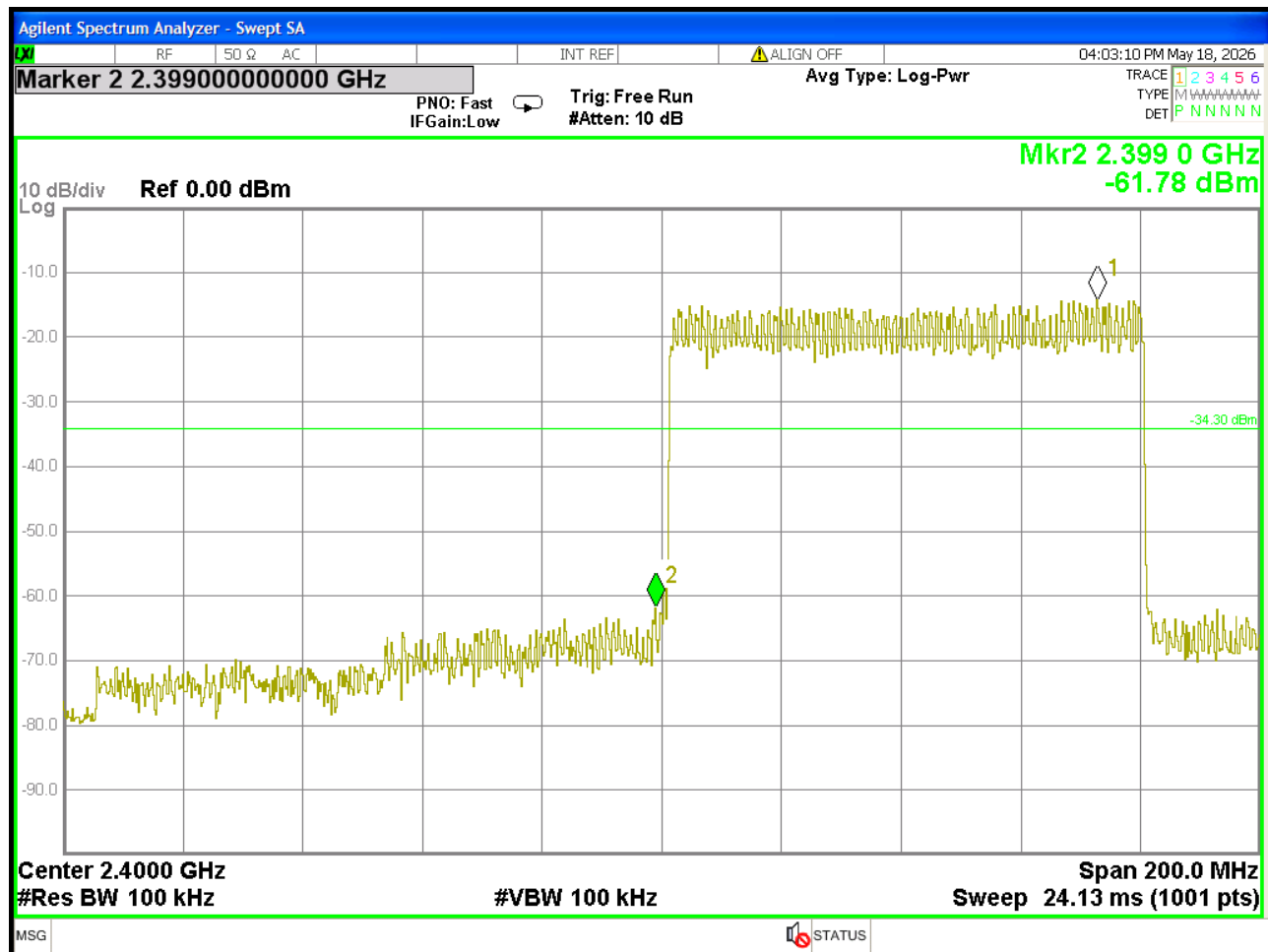


GFSK (1Mbps) Right Band edge



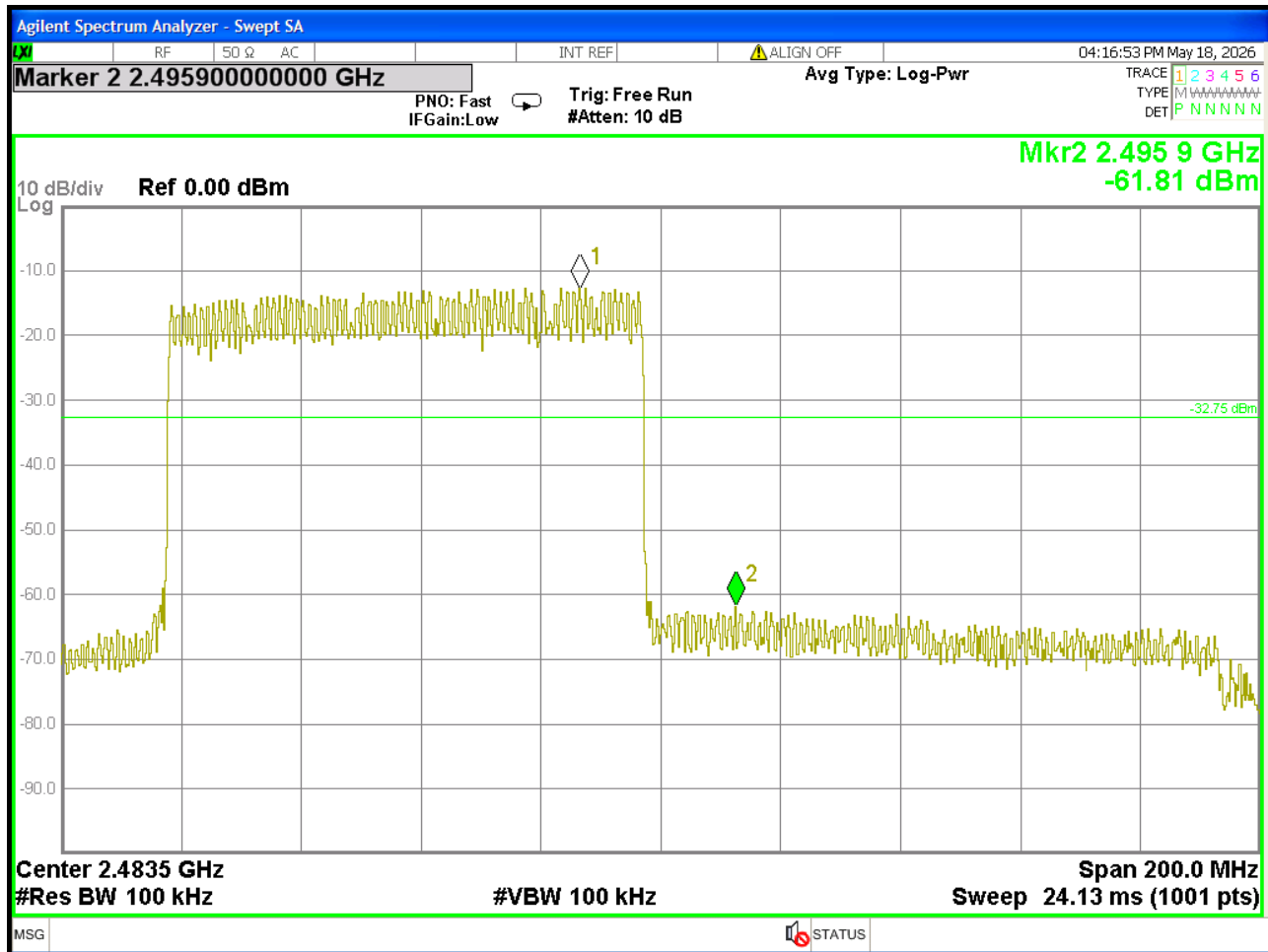


$\pi/4$ -DQPSK (2Mbps) Left Band edge



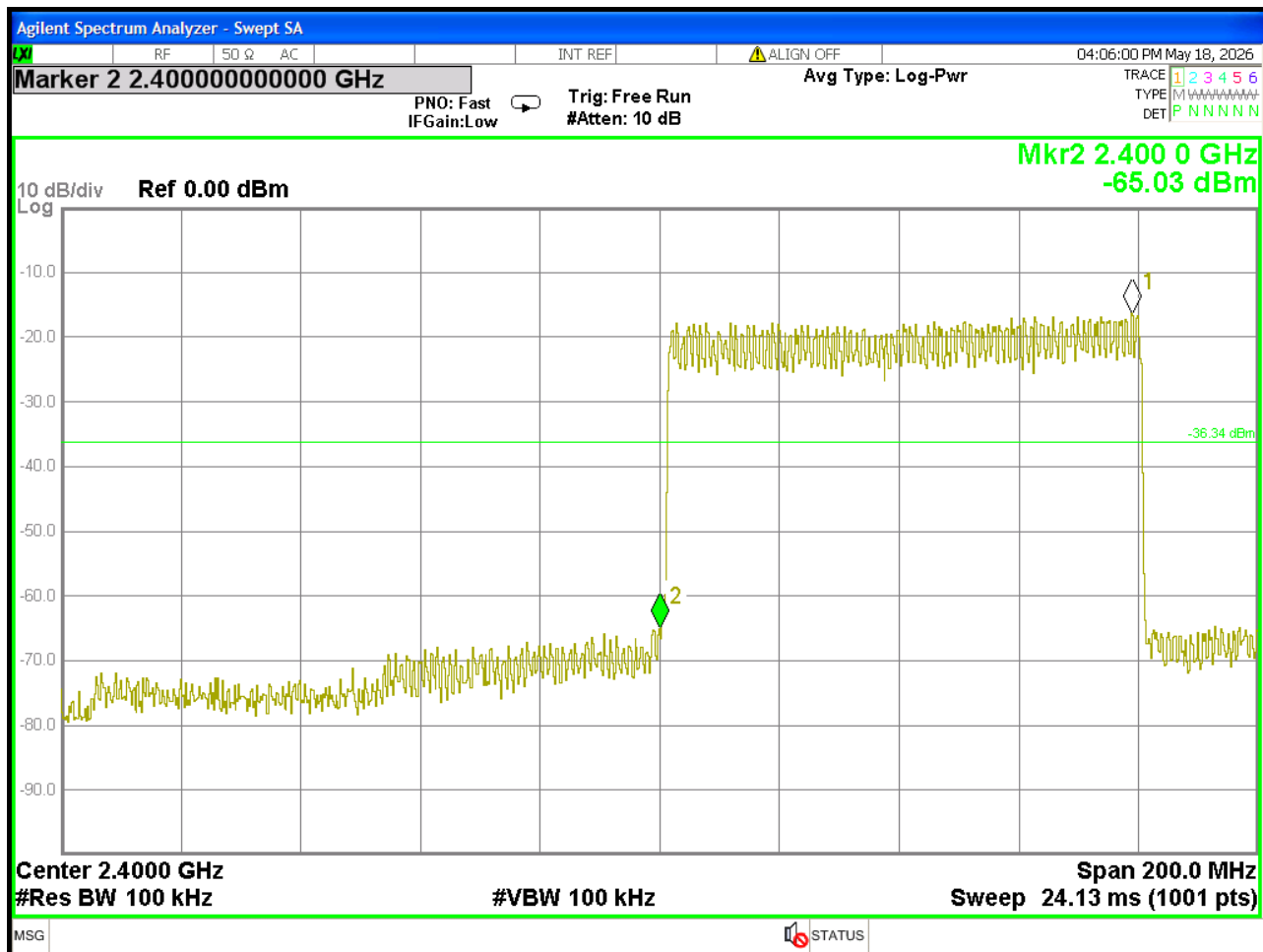


$\pi/4$ -DQPSK (2Mbps) Right Band edge





8DPSK (3Mbps) Left Band edge





8DPSK (3Mbps) Right Band edge



**13.6 Restrict Band Emission Measurement Data**

Power	:	DC 3.7V	Test date	:	2026-08-03
Temperature	:	28 °C	Humidity	:	68 %
Test Mode	:	CH LO– Restricted Bands	Memo	:	GFSK

Antenna polarity: Vertical						
Freq (MHz)	Read Level (dBuV)	Corrected Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2378.100	50.12	-14.07	36.05	74	-37.95	PK
2378.100	--	--	--	--	--	PK
Antenna Polarity: Horizontal						
2378.900	51.11	-14.06	37.05	74	-36.95	PK
2378.900	--	--	--	--	--	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Power	: DC 3.7V	Test date	: 2026-08-03
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: CH HI- Restricted Bands	Memo	: GFSK

Antenna polarity: Vertical

Freq (MHz)	Read Level (dBuV)	Corrected Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2493.600	-2.32	37.54	35.22	74	-38.78	PK
2493.600	--	--	--	--	--	PK

Antenna Polarity: Horizontal

2491.200	48.46	-13.39	35.07	74	-38.93	PK
2491.200	--	--	--	--	--	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Power	: DC 3.7V	Test date	: 2026-08-03
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: CH LO – Restricted Bands	Memo	: $\pi/4$ -DQPSK

Antenna polarity: Vertical						
Freq (MHz)	Read Level (dBuV)	Corrected Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2377.200	54.24	-14.08	40.16	74	-33.84	PK
2377.200	--	--	--	--	--	PK
Antenna Polarity: Horizontal						
2377.400	54.17	-14.08	40.09	74	-33.91	PK
2377.400	--	--	--	--	--	PK
Note:						
1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK						
2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK						
3, Result = Read level + Antenna factor + cable loss-Amp factor						
4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.						



Power	: DC 3.7V	Test date	: 2026-08-03
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: CH HI – Restricted Bands	Memo	: $\pi/4$ -DQPSK

Antenna polarity: Vertical

Freq (MHz)	Read Level (dBuV)	Corrected Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2496.100	49.10	-13.33	35.77	74	-38.23	PK
2496.100	--	--	--	--	--	PK

Antenna Polarity: Horizontal

2495.200	48.64	-13.35	35.29	74	-38.71	PK
2495.200	--	--	--	--	--	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Power	:	DC 3.7V	Test date	:	2026-08-03
Temperature	:	28 °C	Humidity	:	68 %
Test Mode	:	CH LO – Restricted Bands	Memo	:	8DPSK

Antenna polarity: Vertical

Freq (MHz)	Read Level (dBuV)	Corrected Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2378.000	52.36	-14.06	38.30	74	-35.70	PK
2378.000	--	--	--	--	--	PK

Antenna Polarity: Horizontal

2378.700	52.89	-14.07	38.82	74	-35.18	PK
2378.700	--	--	--	--	--	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Power	: DC 3.7V	Test date	: 2026-08-03
Temperature	: 28 °C	Humidity	: 68 %
Test Mode	: CH HI – Restricted Bands	Memo	: 8DPSK

Antenna polarity: Vertical						
Freq (MHz)	Read Level (dBuV)	Corrected Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2493.900	52.36	-14.06	38.30	74	-35.70	PK
2493.900	--	--	--	--	--	PK
Antenna Polarity: Horizontal						
2498.000	48.71	-13.31	35.40	74	-38.60	PK
2498.000	--	--	--	--	--	PK

Note:

- 1, Spectrum Set for PK measure: RBW=1MHz, VBW=1MHz, Sweep time=Auto, Detector: PK
- 2, Spectrum Set for AV measure: RBW=1MHz, VBW=10Hz, Sweep time=Auto, Detector: PK
- 3, Result = Read level + Antenna factor + cable loss-Amp factor
- 4, All the other emissions not reported were too low to read and deemed to comply with FCC limit.



14. Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.150
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

14.1 Labeling Requirement

The device shall bear the following statement in a conspicuous location on the device:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



15. Test Setup Photos of the EUT

Please see the additional attachment (WH1_Test Setup Photos).

16. Photos of the EUT

Please see the additional attachment (WH1_External Photos)&(WH1_Internal Photos).