

TEST REPORT



Certificate #4312.01

Product Name / PMN: True wireless headphones**Trade Mark:**

PHILIPS or

Model No. /HVIN: TAT1320

TAT1320xx/yy(xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination)

Add. Model No.:**Report Number:** 26040323700RFC-1**Test Standards:** FCC 47 CFR Part 15 Subpart C
RSS-247 Issue 4
RSS-Gen Issue 5**FCC ID:** 2AR2STAT1320**IC:** 24589-TAT1320**Test Result:** PASS**Date of Issue:** April 23, 2026

Prepared for:

MMD Hong Kong Holding Limited**Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong**

Prepared by:

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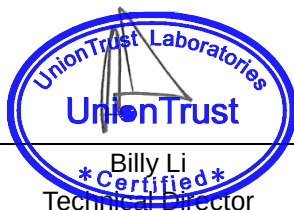
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April 23, 2026

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UTTR-RF-RSS247-V1.1

Version

Version No.	Date	Description
V1.0	April 23, 2026	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	MMD Hong Kong Holding Limited
Address of Applicant:	Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong
Manufacturer:	MMD Hong Kong Holding Limited
Address of Manufacturer:	Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name / PMN:	True wireless headphones	
Model No./ HVIN:	TAT1320	
Add. Model No.:	TAT1320xx/yy(xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination)	
Trade Mark:	 PHILIPS or	
DUT Stage:	Identical Prototype	
EUT Supports Function: (Provided by the customer)	2.4 GHz ISM Band:	Bluetooth V6.0
Sample Received Date:	April 3, 2026	
Sample Tested Date:	April 5, 2026 to April 10, 2026	
Note:	1. The additional model TAT1320xx/yy(xx=AA-ZZ or blank denoted different color; yy=00-99 denoted different country destination) is identical with the test model TAT1320 except the product color and model number for marketing purpose. 2. The ISED certification is only for the main model.	

Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.

1.2.2 Description of Accessories

Refer to Report 26040323700EMC-1 for accessories.

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Range:	2400 MHz to 2483.5 MHz	
Operation Frequency:	2402 MHz to 2480 MHz	
Bluetooth Version:	Bluetooth BR + EDR	
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	
Type of Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK	
Number of Channels:	79	
Channel Separation:	1 MHz	
Hopping Channel Type:	Adaptive Frequency Hopping Systems	
Antenna Type: (Provided by the customer)	Chip Antenna	
Antenna Gain: (Provided by the customer)	Left earbud	1.7 dBi
	Right earbud	1.7 dBi
Maximum Peak Power:	2.09 dBm	
Normal Test Voltage:	3.7 Vdc	

1.4 OTHER INFORMATION

Operation Frequency Each of Channel	
$f = 2402 + k \text{ MHz}, k = 0, \dots, 78$	
Note:	
f	is the operating frequency (MHz);
k	is the operating channel.

Modulation Configure			
Modulation	Packet	Packet Type	Packet Size
GFSK	1-DH1	4	27
	1-DH3	11	183
	1-DH5	15	339
$\pi/4$ DQPSK	2-DH1	20	54
	2-DH3	26	367
	2-DH5	30	679
8DPSK	3-DH1	24	83
	3-DH3	27	552
	3-DH5	31	1021

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	DELL	Latitude 3400	16238087894	UnionTrust
Mouse	DELL	MS111	CN-011D3V-738	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1Meter	Applicant

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a

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year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9kHz-150kHz	±3.2 dB
2	Conducted emission 150kHz-30MHz	±2.7 dB
3	Radiated emission 9kHz-30MHz	± 4.7 dB
4	Radiated emission 30MHz-1GHz	± 4.9 dB
5	Radiated emission 1GHz-18GHz	± 4.8 dB
6	Radiated emission 18GHz-26GHz	± 5.1 dB
7	Radiated emission 26GHz-40GHz	± 5.1 dB
8	Conducted spurious emissions	± 2.7 dB
9	RF Power, Conducted	± 0.68 dB
10	Occupied Bandwidth	± 1.86 %
11	Radio Frequency	2.4 GHz: ± 6.5 × 10 ⁻⁸
12	Transmission Time	± 0.19 %

2. TEST SUMMARY

Test Cases			
Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (b)(4) RSS-Gen Issue 5, Section 6.8	N/A	PASS
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207 RSS-Gen Issue 5, Section 8.8	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 6.2	N/A (Note1)
Conducted Output Power and E.I.R.P	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1) RSS-247 Issue 4, Section 6.2.3.2	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.5	PASS
20 dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 4, Section 6.2.3.1	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 6.9.2	PASS
Occupied Bandwidth	RSS-Gen section 6.7	RSS-Gen section 6.7	PASS
Carrier Frequencies Separation	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 4, Section 6.2.3.1	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.2	PASS
Number of Hopping Channel	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1) RSS-247 Issue 4, Section 6.2.3.1	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.3	PASS
Dwell Time	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 4, Section 6.2.3.1	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.4	PASS
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247(d) RSS-247 Issue 4, Section 6.6	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 6.10.4 & Section 7.8.8	PASS
Radiated Emissions	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-Gen Issue 5, Section 6.13/8.9/8.10	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 6.3 & 6.5 & 6.6	PASS
Band Edge Measurement	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-247 Issue 4, Section 6.6	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 6.10.5	PASS
Note: 1) During the EUT charging process, they will turn off automatically, and the Bluetooth does not work.			
Disclaimer and Explanations: The declared of product specification and data (e.g. antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.			

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	11-Nov-2023	10-Nov-2026
☒	Receiver	R&S	ESIB26	100114	24-Oct-2025	23-Oct-2026
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	20-Mar-2026	19-Mar-2027
☒	Loop Antenna	ETS-LINDGREN	6502	00202525	26-Oct-2025	25-Oct-2026
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	26-Oct-2025	25-Oct-2026
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	24-Oct-2025	23-Oct-2026
☒	Preamplifier	HP	8447F	2805A02960	24-Oct-2025	23-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	24-Oct-2025	23-Oct-2026
☒	Pre-amplifier	ETS-Lindgren	00118384	00202652	24-Oct-2025	23-Oct-2026
☒	Double-Ridged Waveguide Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	21-Mar-2026	20-Mar-2027
☒	Pre-amplifier	ETS-Lindgren	00118385	00201874	21-Mar-2026	20-Mar-2027
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

Conducted RF test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY51440197	20-Mar-2026	19-Mar-2027
☒	USB Wideband Power Sensor	KEYSIGHT	U2021XA	MY55430035	24-Oct-2025	23-Oct-2026
☐	MXG X-Series RF Vector Signal Generator	KEYSIGHT	N5182B	MY51350267	24-Oct-2025	23-Oct-2026

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
NT/NV	+15 to +35	3.7	20 to 75
Remark: 1) NV: Normal Voltage; NT: Normal Temperature			

4.1.2 Record of Normal Environment and Test Sample

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Conducted Peak Output Power	24.5	55.1	99.8	S202604038275-ZJA16/18	Erina Chen
20 dB Bandwidth & Occupied Bandwidth					
Carrier Frequencies Separation					
Number of Hopping Channel					
Dwell Time					
Conducted Out of Band Emission	24.3	65.2	100.0	S202604038275-ZJA14/18	Leo Li
Radiated Emissions					
Band Edge Measurement					

4.2 TEST CHANNELS

Mode	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
GFSK (DH1, DH3, DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
$\pi/4$ DQPSK (2DH1, 2DH3, 2DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz
8DPSK (3DH1, 3DH3, 3DH5)	2402 MHz to 2480 MHz	Channel 0	Channel 39	Channel 78
		2402 MHz	2441 MHz	2480 MHz

4.3 EUT TEST STATUS

Type of Modulation	Tx Function	Description
GFSK/ $\pi/4$ DQPSK/ 8DPSK	1Tx	1. Keep the EUT in continuously transmitting with Modulation test single 2. Keep the EUT in continuously transmitting with Modulation test Hopping Frequency.

Power Setting(Provided by the customer)
Power Setting: 5

Test Software(Provided by the customer)
Test software name: BT_Tool, 1.1.12

4.4 PRE-SCAN

4.4.1 Worst-case data packets

Type of Modulation	Worst-case data rates
GFSK	1-DH5
$\pi/4$ DQPSK	2-DH5
8DPSK	3-DH5

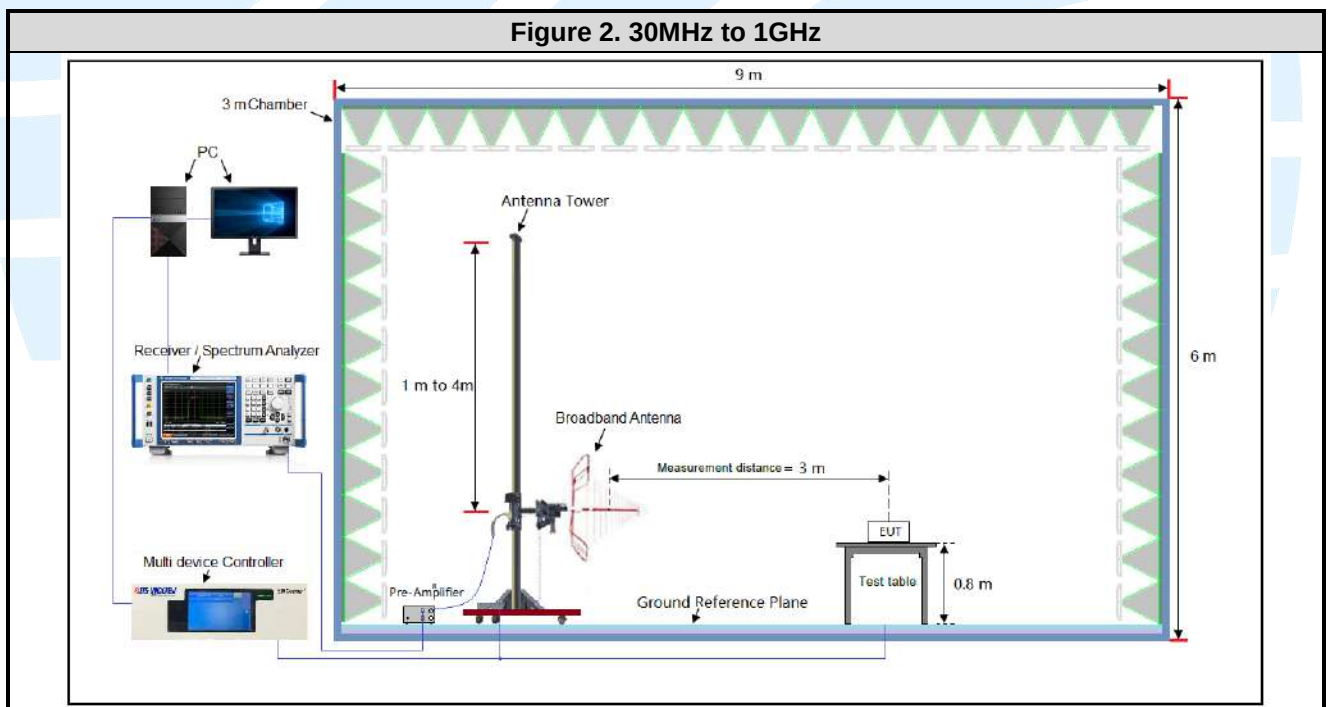
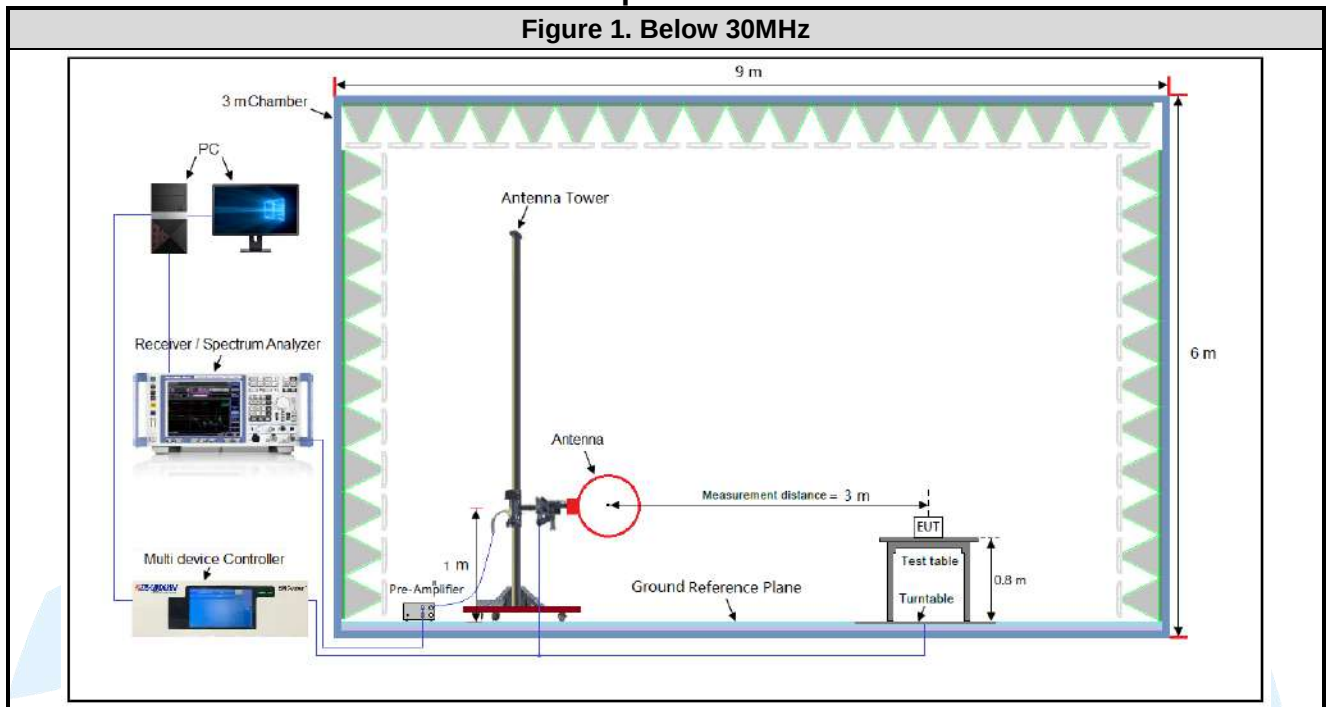
4.4.2 Tested channel detail

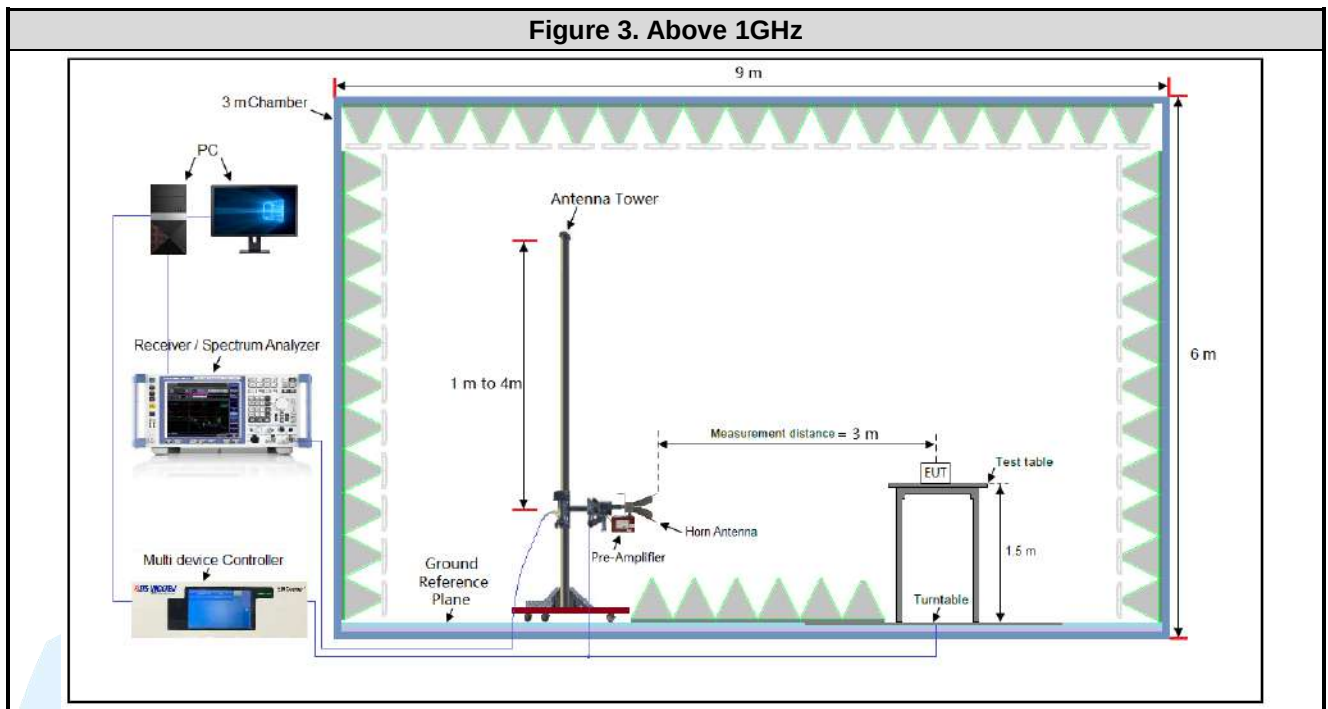
Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data packets and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Type of Modulation	GFSK			$\pi/4$ DQPSK			8DPSK		
Data Packets	1-DH 1	1-DH 3	1-DH 5	2-DH 1	2-DH 3	2-DH 5	3-DH 1	3-DH 3	3-DH 5
Available Channel	0 to 78								
Test Item	Test channel and choose of data packets								
Conducted Peak Output Power	Channel 0 & 39 & 78								
	☒	☒	☒	☒	☒	☒	☒	☒	☒
20 dB Bandwidth	Channel 0 & 39 & 78								
	☐	☐	☒	☐	☐	☐	☐	☐	☒
Carrier Frequencies Separation	Frequency Hopping Channel 0 to 78								
	☐	☐	☒	☐	☐	☐	☐	☐	☒
Number of Hopping Channel	Frequency Hopping Channel 0 to 78								
	☐	☐	☒	☐	☐	☐	☐	☐	☒
Dwell Time	Channel 39								
	☒	☒	☒	☐	☐	☐	☒	☒	☒
Conducted Out of Band Emission	Channel 0 & 39 & 78								
	☐	☐	☒	☐	☐	☐	☐	☐	☒
Radiated Emissions	Channel 0 & 39 & 78								
	☐	☐	☒	☐	☐	☐	☐	☐	☐
Band Edge Measurements (Radiated)	Channel 0 & 78								
	☐	☐	☒	☐	☐	☐	☐	☐	☐
Remark: 1. The mark "☒" means is chosen for testing; 2. The mark "☐" means is not chosen for testing									

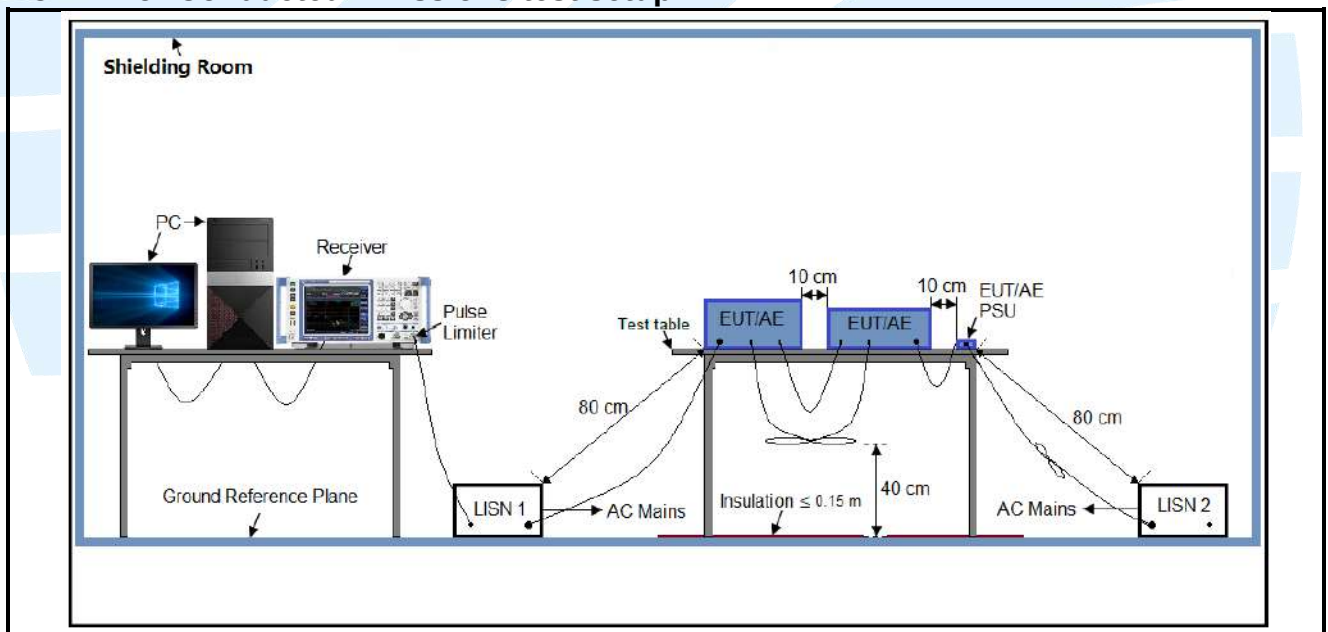
4.5 TEST SETUP

4.5.1 For Radiated Emissions test setup

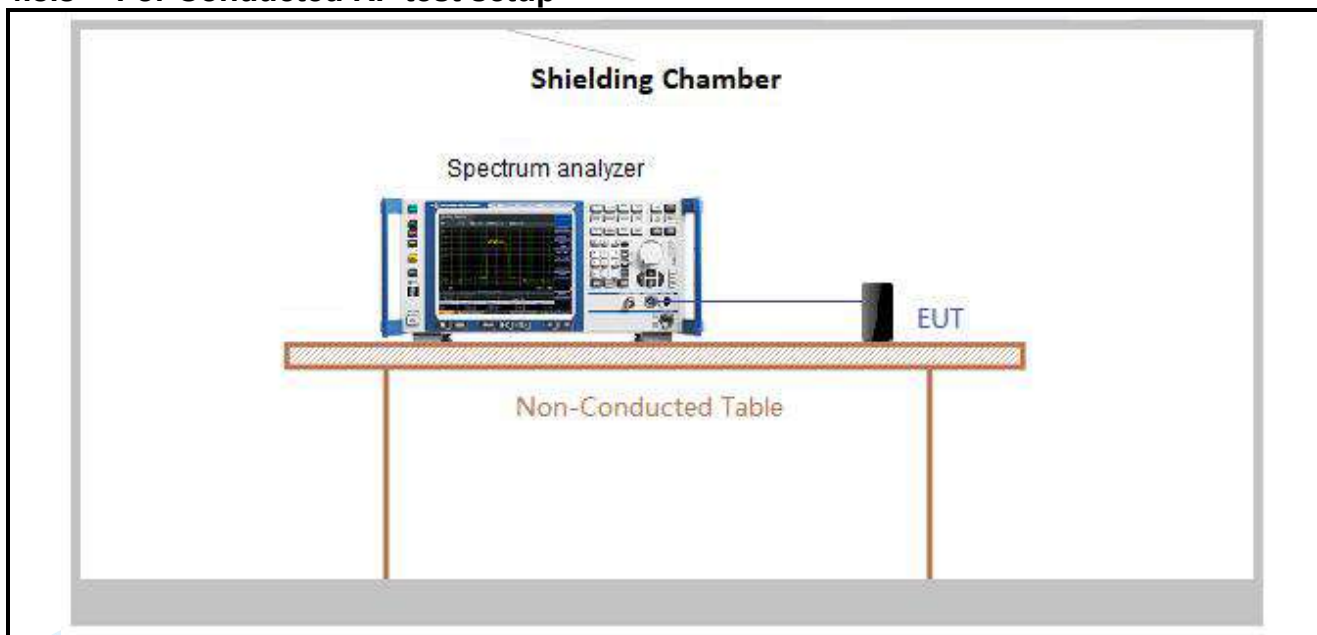




4.5.2 For Conducted Emissions test setup



4.5.3 For Conducted RF test setup



4.6 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in (see table below) orientation.

Frequency	Mode	Antenna Port	Worst-case axis positioning
Above 1GHz	1TX	Chain 0	Z axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.7 DUTY CYCLE

Test Procedure: ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Clause 11.6.

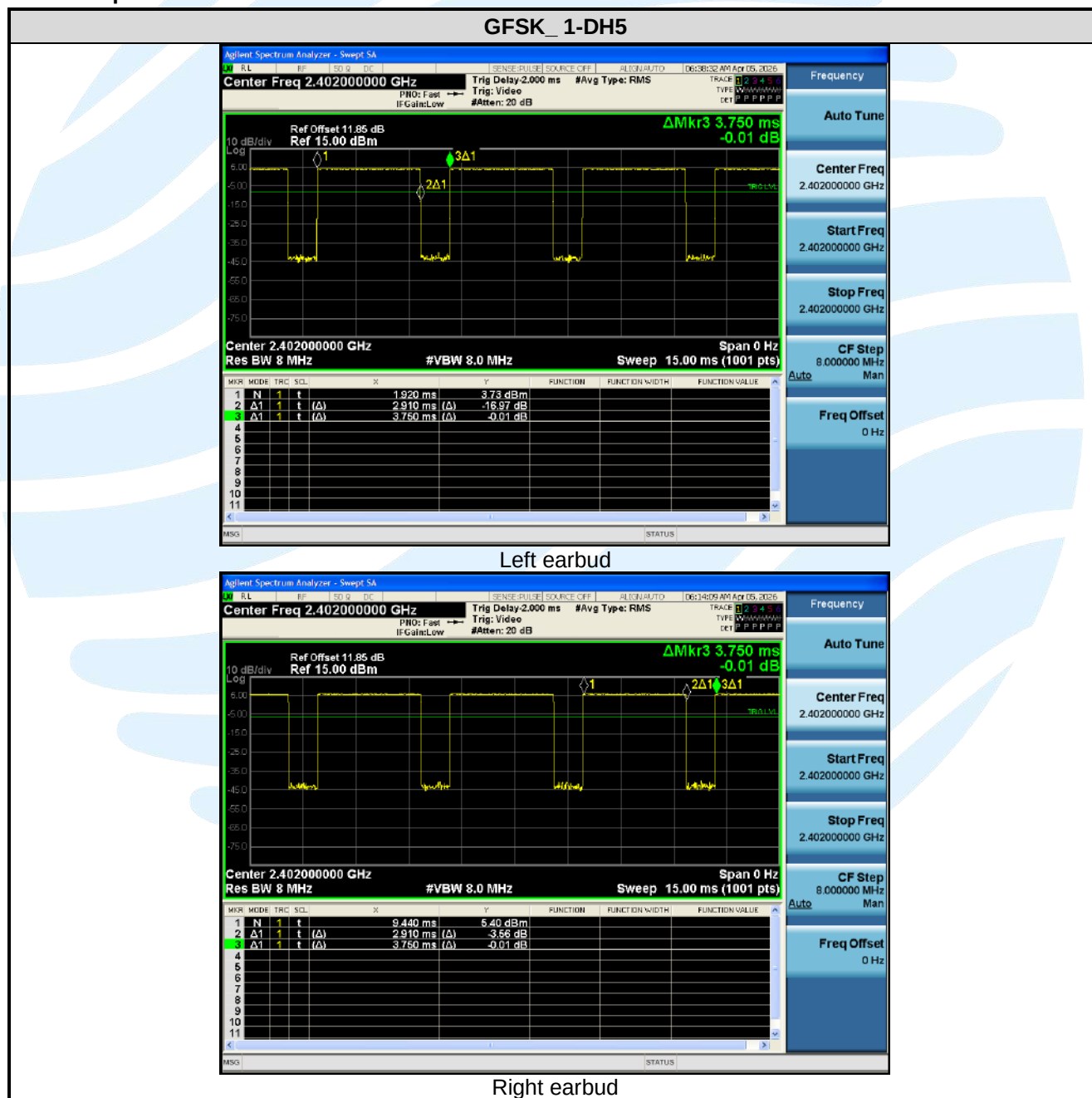
Test Results

EUT	Modulation	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor [dB]
Left earbud	GFSK	2.91	3.75	77.60	1.10
Right earbud	GFSK	2.91	3.75	77.60	1.10

Remark:

- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = $10 * \log(1/ \text{Duty cycle})$;
- 3) Average factor = $20 \log_{10} \text{Duty Cycle}$.

The test plot as follows



5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	RSS-247 Issue 4	Digital Transmission Systems, Frequency Hopping Systems and Licence-Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
4	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
5	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024	American National Standard for Testing Unlicensed Wireless Devices
6	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules

5.2 ANTENNA REQUIREMENT

Standard Requirement
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: 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. RSS-Gen Issue 5, Section 6.8 requirement: According to RSS-Gen Issue 5, section 6.8, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. EUT Antenna: Antenna in the interior of the equipment and no consideration of replacement. The max gain of the antenna is 1.7 dBi.

5.3 CONDUCTED OUTPUT POWER AND E.I.R.P

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(1) RSS-247 Issue 4, Section 6.2.3.2
Test Method:	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.5
Limit:	For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e). FHSs 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, FHSs operating in the band 2400-2483.5 MHz 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 that the systems operate with an output power no greater than 0.125 W.
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. a) Use the following spectrum analyzer settings: 1) Span: Approximately 5 x 20 dB bandwidth, centered on a hopping channel. 2) RBW > 20 dB bandwidth of the emission being measured. 3) VBW ≥ RBW. 4) Sweep: Auto. 5) Detector function: Peak. 6) Trace: Max hold. b) Allow trace to stabilize. c) Use the marker-to-peak function to set the marker to the peak of the emission. d) The indicated level is the peak output power, after any corrections for external attenuators and cables. e) A plot of the test results and setup description shall be included in the test report.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Results:	Please refer to Appendix A

Note:

1. The max antenna gain of 1.7 dBi less than 6dBi maximum permission antenna gain value based on 125 mW peak output power limit.
2. The maximum EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.

5.420 DB BANDWIDTH & OCCUPIED BANDWIDTH

	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1)
Test Requirement:	RSS-247 Issue 4, Section 6.2.3.1 RSS-Gen section 6.7 ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024
Test Method:	Section 6.9.2 RSS-Gen section 6.7
Limit:	None; for reporting purposes only.
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: a) Span = approximately 2 to 5 times the OBW, centered on a hopping channel. b) RBW = 1% to 5% of the OBW. c) VBW $\geq 3 \times$ RBW d) Sweep = auto; e) Detector function = peak f) Trace = max hold g) All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission.
	Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Please refer to Appendix A

5.5 CARRIER FREQUENCIES SEPARATION

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(1) RSS-247 Issue 4, Section 6.2.3.1
Test Method:	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.2
Limit:	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. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: a) Span: Wide enough to capture the peaks of two adjacent channels. b) 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. c) Video (or average) bandwidth (VBW) $\geq$ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. h) Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Please refer to Appendix A

5.6 NUMBER OF HOPPING CHANNEL

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247(b)(1) RSS-247 Issue 4, Section 6.2.3.1
Test Method:	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.3
Limit:	Frequency hopping systems in the 2400 – 2483.5 MHz band shall use at least 15 non-overlapping channels.
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: a) 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. b) RBW < 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller. c) VBW ≥ RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold. g) Allow the trace to stabilize. Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Please refer to Appendix A

5.7 DWELL TIME

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247(a)(1) RSS-247 Issue 4, Section 6.2.3.1
Test Method:	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 7.8.4
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. 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:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings: a) Span = zero span, centered on a hopping channel b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel. c) Sweep = 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; a second plot might be needed with a longer sweep time to show two successive hops on a channel. d) Detector function = peak e) Trace = max hold f) Use the marker-delta function to determine the dwell time Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.
Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Please refer to Appendix A

5.8 CONDUCTED OUT OF BAND EMISSION

Test Requirement:	FCC 47 CFR Part 15 Subpart C Section 15.247(d) RSS-247 Issue 4, Section 6.6
Test Method:	ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024 Section 6.10.4 & Section 7.8.8
Limit:	In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.
Test Procedure:	Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer. Use the following spectrum analyzer settings:

Step 1: Measurement Procedure REF

- Set instrument center frequency to 2400 MHz or 2483.5 MHz.
- Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
- Set the RBW = 100 kHz.
- Set the VBW $\geq 3 \times$ RBW.
- Detector = peak.
- Sweep time = auto couple.
- Sweep points $\geq 2 \times$ Span/RBW
- Trace mode = max hold.
- Allow the trace to stabilize.
- Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.

Step 2: Measurement Procedure OOB

- Set RBW = 100 kHz.
- Set VBW ≥ 300 kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup:	Refer to section 4.5.3 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Hopping Frequencies Transmitter mode
Test Results:	Please refer to Appendix A

5.9 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209
RSS-Gen Issue 5, Section 6.13/8.9/8.10

Test Method: ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024
Section 6.3 & 6.5 & 6.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dBμV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

1. From 30 MHz to 1GHz test procedure as below:
 - 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
 - 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
 - 5) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
2. Above 1GHz test procedure as below:
 - 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).

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UTTR-RF-RSS247-V1.1

- 2) Test the EUT in the lowest channel ,middle channel, the Highest channel
- 3) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Z axis positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The measurement data as follows:

Radiated Emission Test Data (9 KHz ~ 30 MHz):

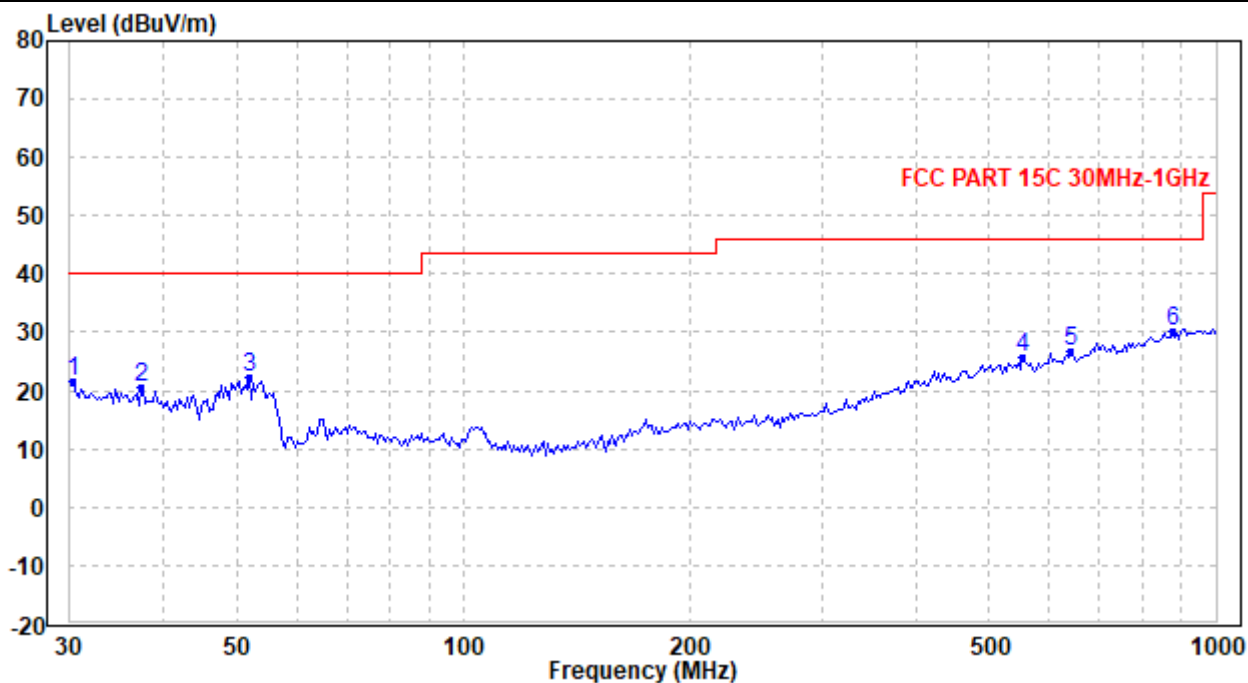
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz):

Left earbud

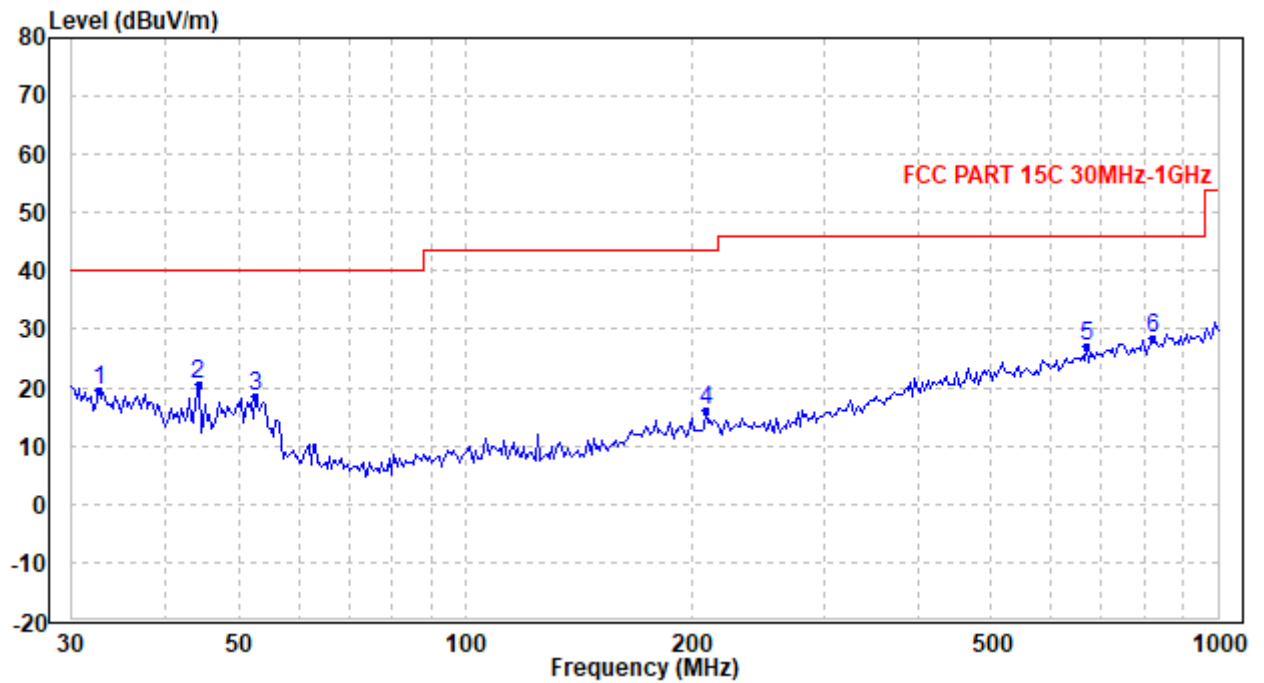
Worst-Case Configuration

Horizontal

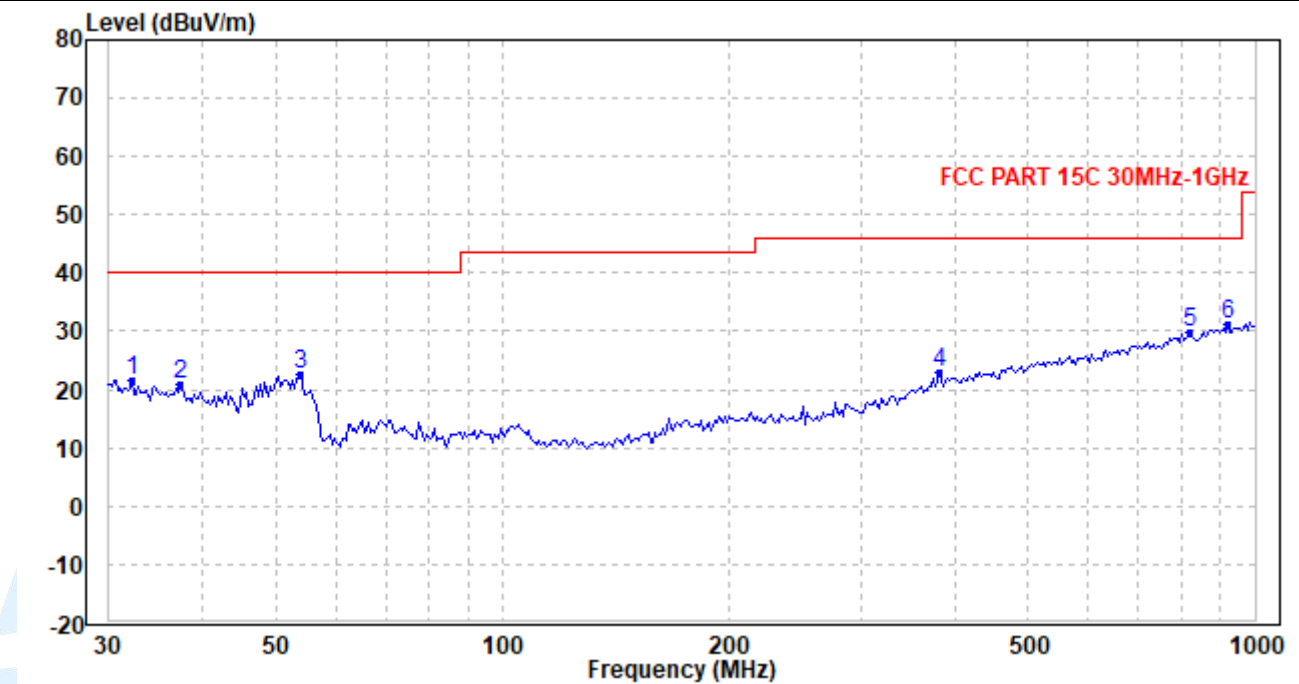


No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.212	26.64	-4.94	21.70	40.00	-18.30	QP
2	37.302	28.15	-7.51	20.64	40.00	-19.36	QP
3	51.900	37.06	-14.93	22.13	40.00	-17.87	QP
4	554.171	27.39	-1.69	25.70	46.00	-20.30	QP
5	642.292	26.96	-0.22	26.74	46.00	-19.26	QP
6	875.013	26.39	3.82	30.21	46.00	-15.79	QP

Vertical

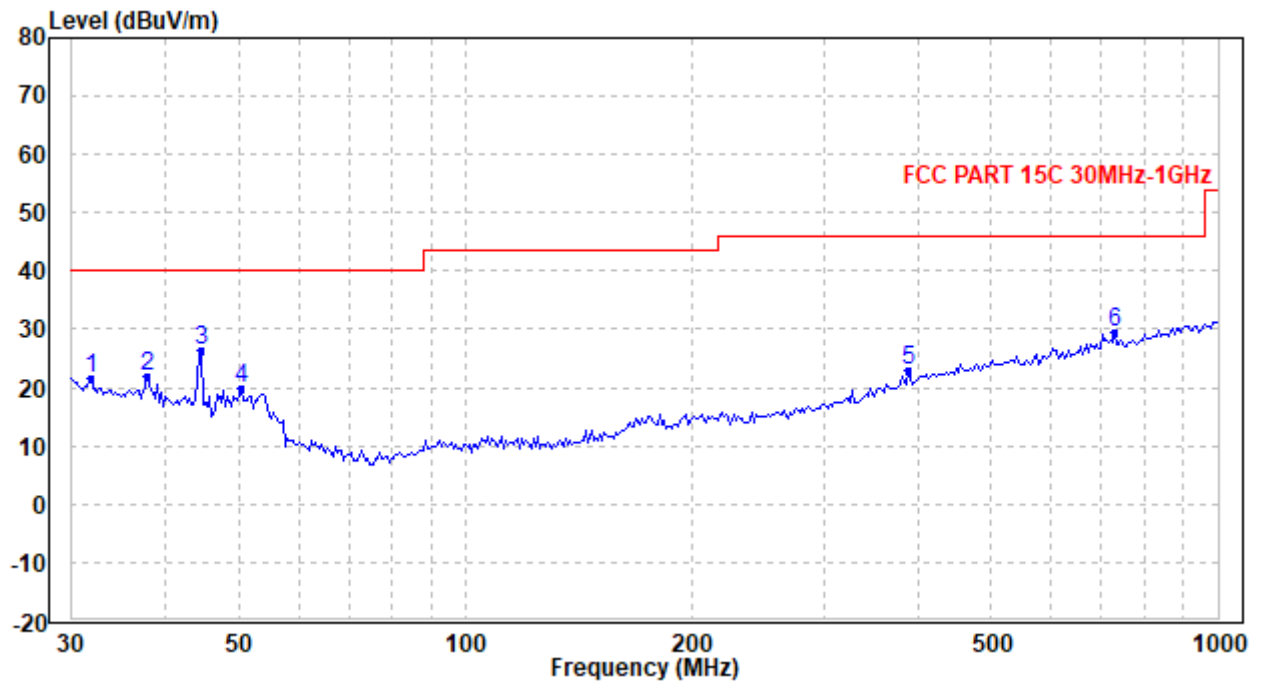


No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	32.640	26.24	-6.74	19.50	40.00	-20.50	QP
2	44.154	33.35	-12.84	20.51	40.00	-19.49	QP
3	52.634	33.60	-15.11	18.49	40.00	-21.51	QP
4	208.658	27.30	-11.10	16.20	43.50	-27.30	QP
5	669.952	26.80	0.37	27.17	46.00	-18.83	QP
6	821.387	25.38	3.13	28.51	46.00	-17.49	QP

Radiated Emission Test Data (30 MHz ~ 1 GHz):
Right earbud
Worst-Case Configuration
Horizontal


No.	Frequency (MHz)	Reading (dB μ V/m)	Correction factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	32.184	28.25	-6.62	21.63	40.00	-18.37	QP
2	37.302	28.46	-7.51	20.95	40.00	-19.05	QP
3	53.756	38.65	-15.99	22.66	40.00	-17.34	QP
4	381.852	28.09	-4.96	23.13	46.00	-22.87	QP
5	821.387	26.77	3.13	29.90	46.00	-16.10	QP
6	919.132	26.54	4.56	31.10	46.00	-14.90	QP

Vertical



No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.735	28.03	-6.55	21.48	40.00	-18.52	QP
2	37.830	29.49	-7.66	21.83	40.00	-18.17	QP
3	44.466	39.24	-12.78	26.46	40.00	-13.54	QP
4	50.461	33.96	-14.19	19.77	40.00	-20.23	QP
5	387.257	27.61	-4.69	22.92	46.00	-23.08	QP
6	728.897	27.79	1.57	29.36	46.00	-16.64	QP

Radiated Emission Test Data (Above 1GHz):
Left earbud
Lowest Channel:

No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804	34.61	-0.06	34.55	54.00	-19.45	Average	Horizontal
2	4804	50.22	-0.06	50.16	74.00	-23.84	Peak	Horizontal
3	7206	34.60	2.45	37.05	54.00	-16.95	Average	Horizontal
4	7206	46.40	2.45	48.85	74.00	-25.15	Peak	Horizontal
5	4804	34.28	-0.06	34.22	54.00	-19.78	Average	Vertical
6	4804	59.43	-0.06	59.37	74.00	-14.63	Peak	Vertical
7	7206	34.54	2.45	36.99	54.00	-17.01	Average	Vertical
8	7206	45.65	2.45	48.10	74.00	-25.90	Peak	Vertical

Middle Channel:

1	4882	36.94	-0.20	36.74	54.00	-17.26	Average	Horizontal
2	4882	55.49	-0.20	55.29	74.00	-18.71	Peak	Horizontal
3	7323	33.80	2.46	36.26	54.00	-17.74	Average	Horizontal
4	7323	46.22	2.46	48.68	74.00	-25.32	Peak	Horizontal
5	4882	43.23	-0.20	43.03	54.00	-10.97	Average	Vertical
6	4882	65.34	-0.20	65.14	74.00	-8.86	Peak	Vertical
7	7323	34.00	2.46	36.46	54.00	-17.54	Average	Vertical
8	7323	46.08	2.46	48.54	74.00	-25.46	Peak	Vertical

Highest Channel:

1	4960	39.01	-0.35	38.66	54.00	-15.34	Average	Horizontal
2	4960	57.97	-0.35	57.62	74.00	-16.38	Peak	Horizontal
3	7440	33.62	2.46	36.08	54.00	-17.92	Average	Horizontal
4	7440	45.17	2.46	47.63	74.00	-26.37	Peak	Horizontal
5	4960	44.02	-0.35	43.67	54.00	-10.33	Average	Vertical
6	4960	66.29	-0.35	65.94	74.00	-8.06	Peak	Vertical
7	7440	33.35	2.46	35.81	54.00	-18.19	Average	Vertical
8	7440	45.59	2.46	48.05	74.00	-25.95	Peak	Vertical

Radiated Emission Test Data (Above 1GHz):								
Right earbud								
Lowest Channel:								
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804	34.53	-0.06	34.47	54.00	-19.53	Average	Horizontal
2	4804	55.74	-0.06	55.68	74.00	-18.32	Peak	Horizontal
3	7206	34.84	2.45	37.29	54.00	-16.71	Average	Horizontal
4	7206	46.33	2.45	48.78	74.00	-25.22	Peak	Horizontal
5	4804	40.24	-0.06	40.18	54.00	-13.82	Average	Vertical
6	4804	62.60	-0.06	62.54	74.00	-11.46	Peak	Vertical
7	7206	34.81	2.45	37.26	54.00	-16.74	Average	Vertical
8	7206	46.70	2.45	49.15	74.00	-24.85	Peak	Vertical
Middle Channel:								
1	4882	32.09	-0.20	31.89	54.00	-22.11	Average	Horizontal
2	4882	53.99	-0.20	53.79	74.00	-20.21	Peak	Horizontal
3	7323	33.59	2.46	36.05	54.00	-17.95	Average	Horizontal
4	7323	44.86	2.46	47.32	74.00	-26.68	Peak	Horizontal
5	4882	40.94	-0.20	40.74	54.00	-13.26	Average	Vertical
6	4882	61.73	-0.20	61.53	74.00	-12.47	Peak	Vertical
7	7323	33.94	2.46	36.40	54.00	-17.60	Average	Vertical
8	7323	45.38	2.46	47.84	74.00	-26.16	Peak	Vertical
Highest Channel:								
1	4960	38.81	-0.35	38.46	54.00	-15.54	Average	Horizontal
2	4960	57.83	-0.35	57.48	74.00	-16.52	Peak	Horizontal
3	7440	33.59	2.46	36.05	54.00	-17.95	Average	Horizontal
4	7440	44.52	2.46	46.98	74.00	-27.02	Peak	Horizontal
5	4960	44.60	-0.35	44.25	54.00	-9.75	Average	Vertical
6	4960	69.58	-0.35	69.23	74.00	-4.77	Peak	Vertical
7	7440	33.44	2.46	35.90	54.00	-18.10	Average	Vertical
8	7440	48.85	2.46	51.31	74.00	-22.69	Peak	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

5.10 BAND EDGE MEASUREMENTS (RADIATED)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209
RSS-247 Issue 4, Section 6.6

Test Method: ANSI C63.10-2020 + COR. 1-2023 + C63.10A-2024 + ERRATA TO C63.10A-2024
Section 6.10.5

Limits:

Radiated emissions which fall in the restricted bands, as defined in section 15.205(a), must also comply with the radiated emission limits specified in section 15.209(a).

Frequency	Limit (dB μ V/m @3m)	Remark
30 MHz-88 MHz	40.0	Quasi-peak Value
88 MHz-216 MHz	43.5	Quasi-peak Value
216 MHz-960 MHz	46.0	Quasi-peak Value
960 MHz-1 GHz	54.0	Quasi-peak Value
Above 1 GHz	54.0	Average Value
	74.0	Peak Value

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

Radiated band edge measurements at 2390 MHz and 2483.5 MHz were made with the unit transmitting in the low end of the channel range and the high end closest to the restricted bands respectively. The emissions were made on the 966 Semi-Chamber. Use (resolution bandwidth (RBW) = 1 MHz, video bandwidth (VBW) = 3 MHz for peak levels and RBW = 1 MHz and VBW = 10 Hz or 1/T for average levels).

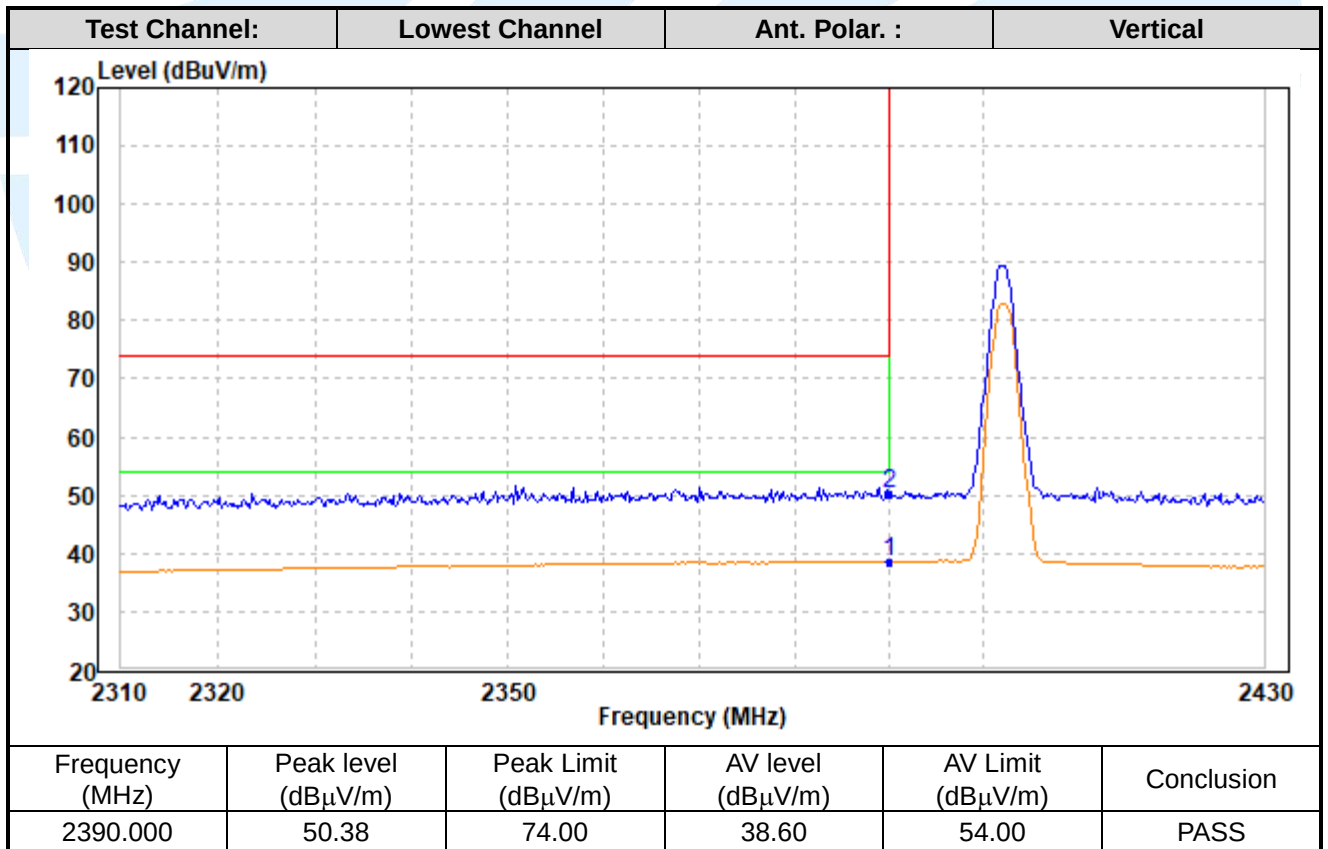
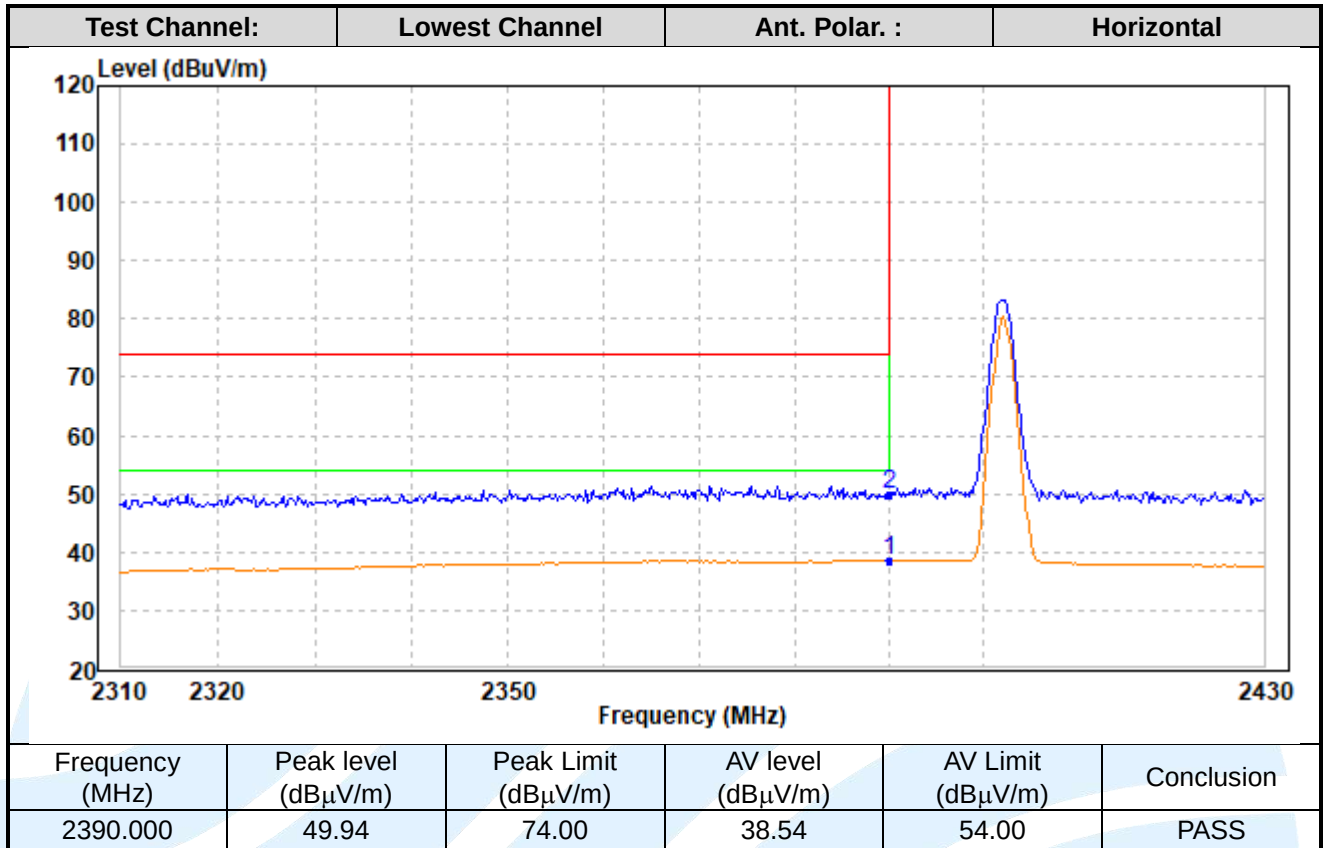
1. Use radiated spurious emission test procedure described in clause 5.10. The transmitter output (antenna port) was connected to the test receiver.
2. Set the PK and AV limit line.
3. Record the fundamental emission and emissions out of the band-edge.
4. Determine band-edge compliance as required.

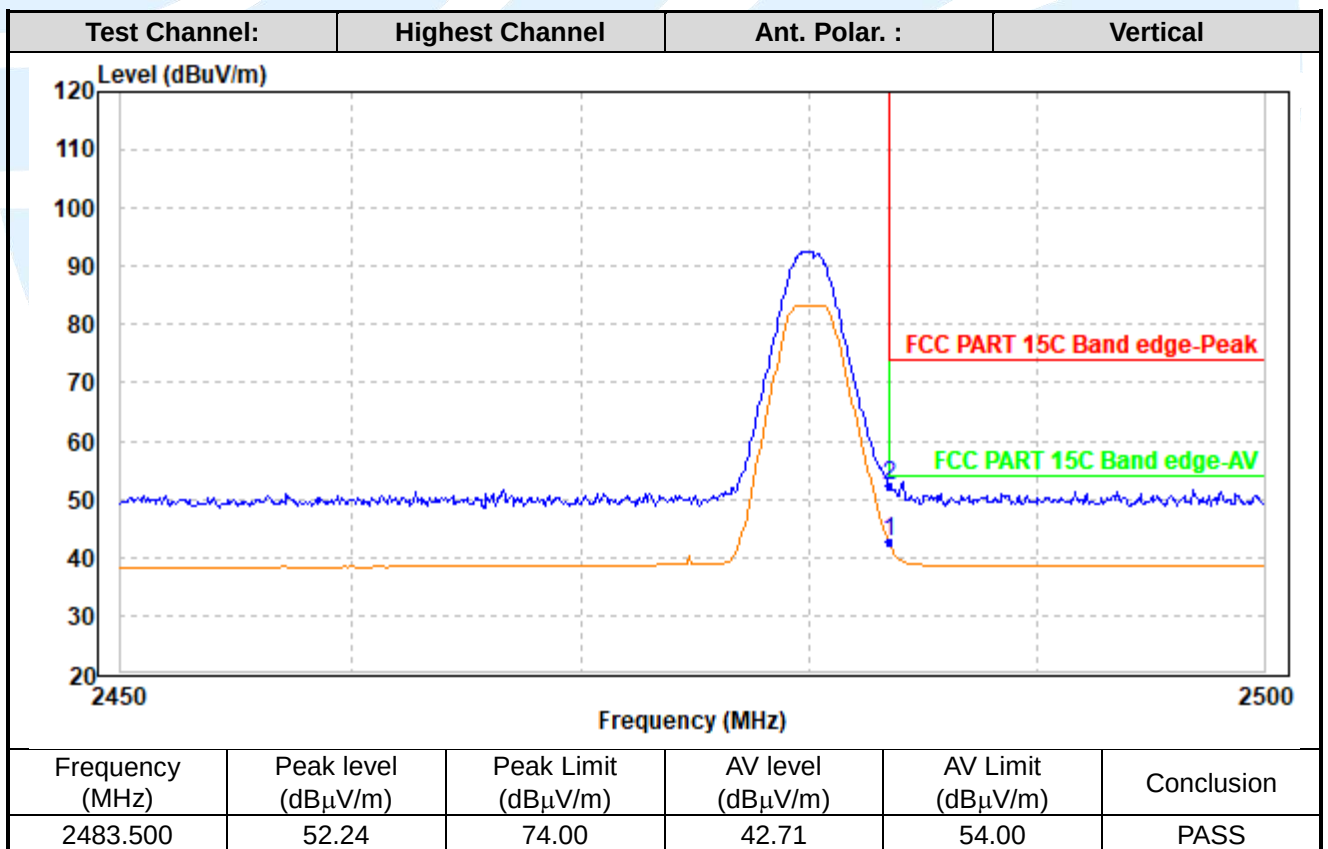
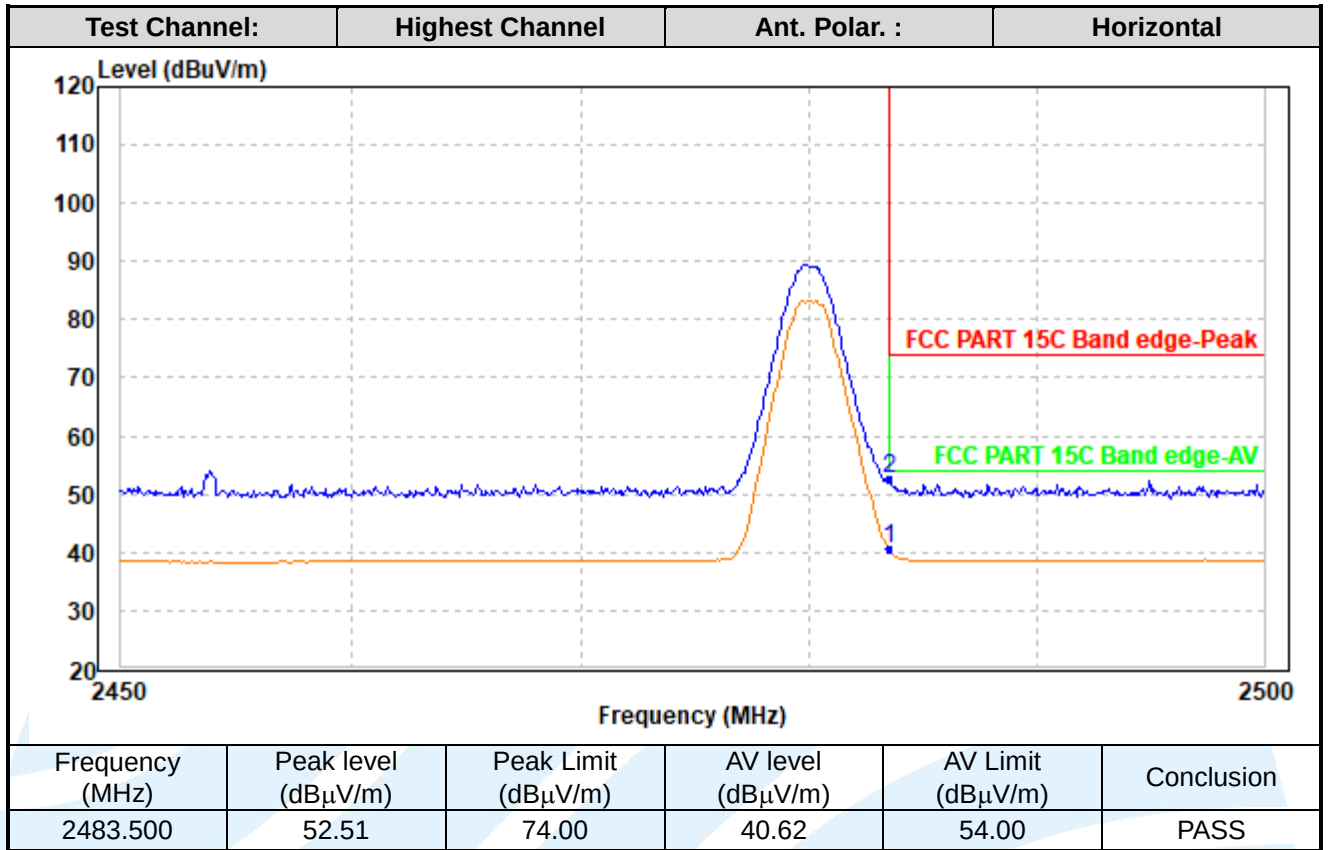
Equipment Used: Refer to section 3 for details.

Test Result: Pass

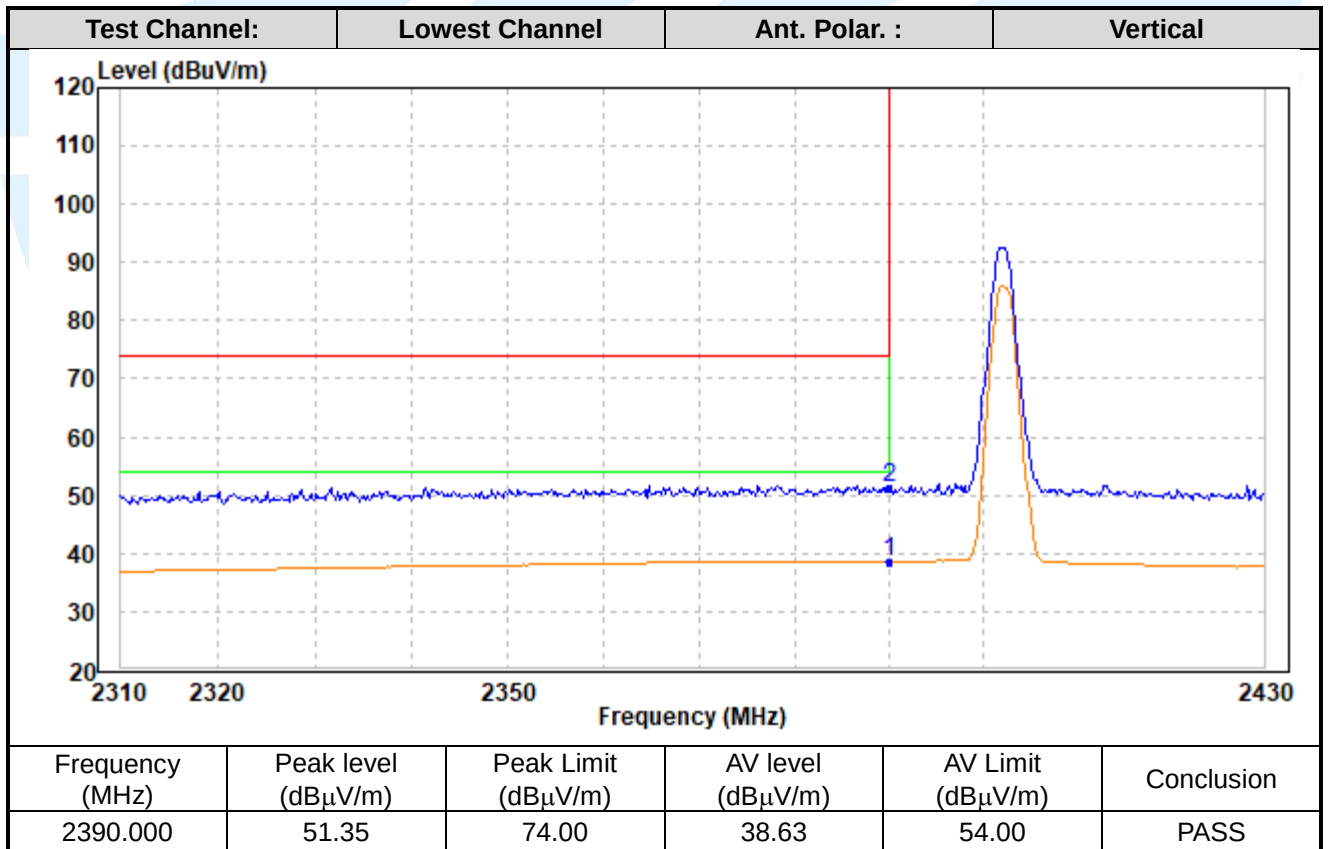
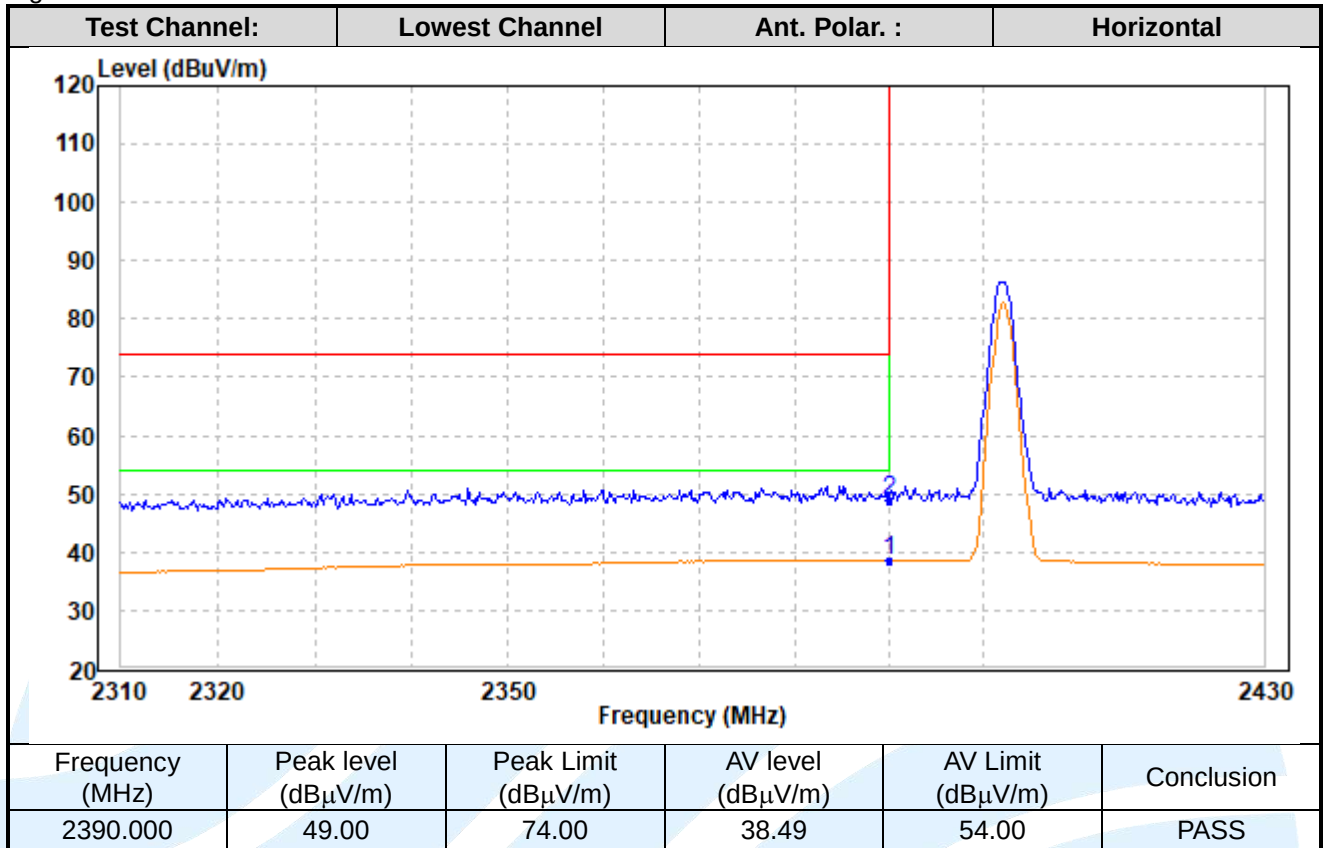
The measurement data as follows:

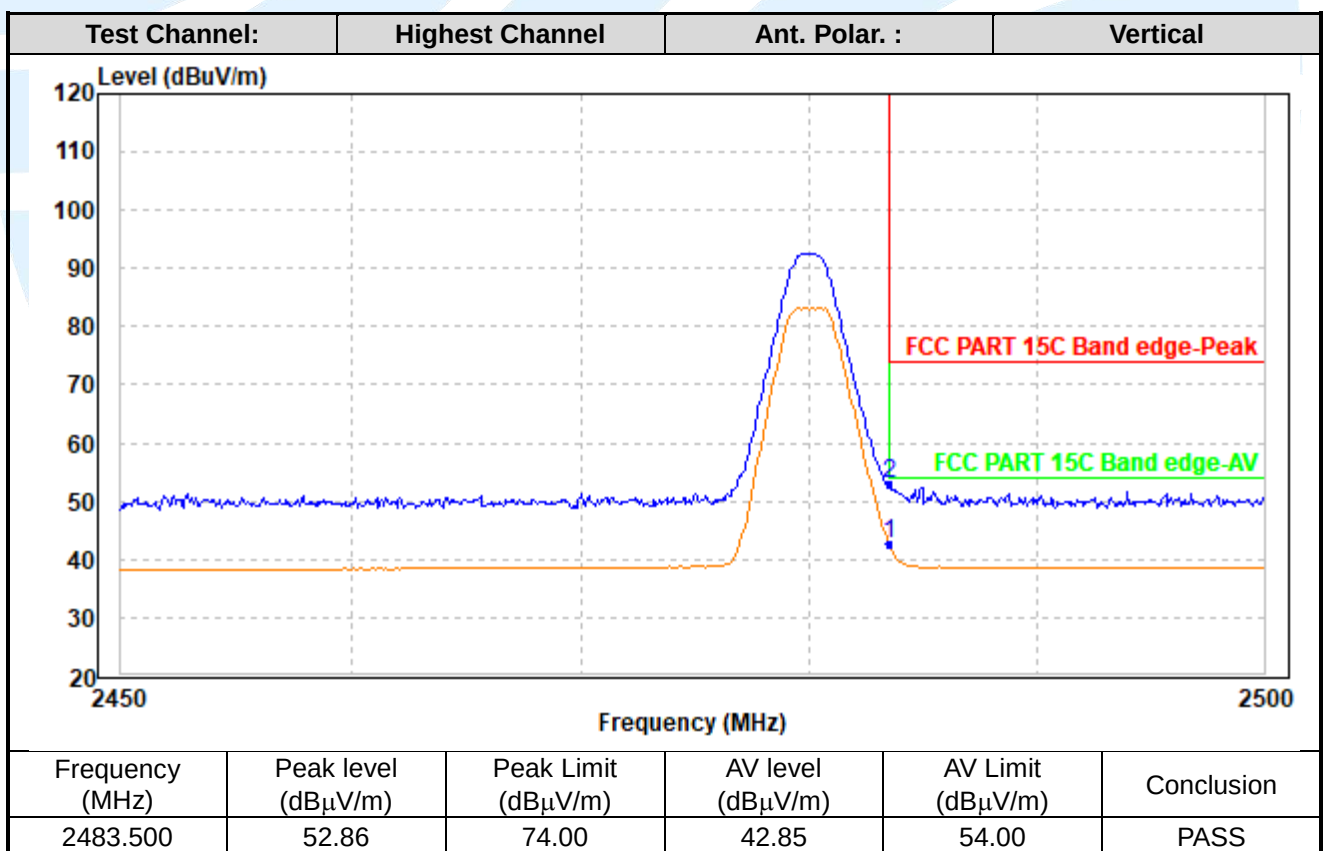
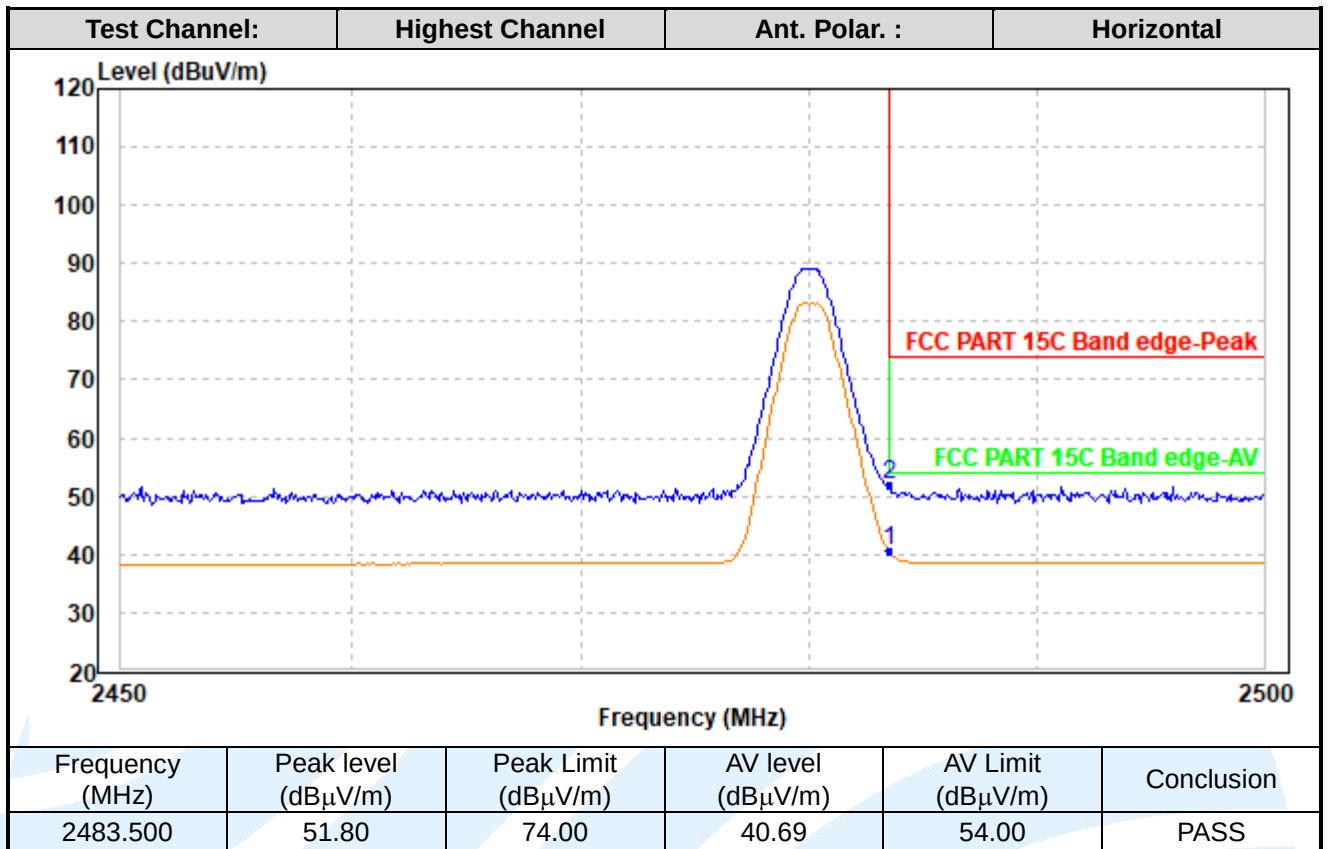
Left earbud





Right earbud





APPENDIX A RF TEST DATA

A.1 MAXIMUM CONDUCTED OUTPUT POWER AND E.I.R.P

Left earbud

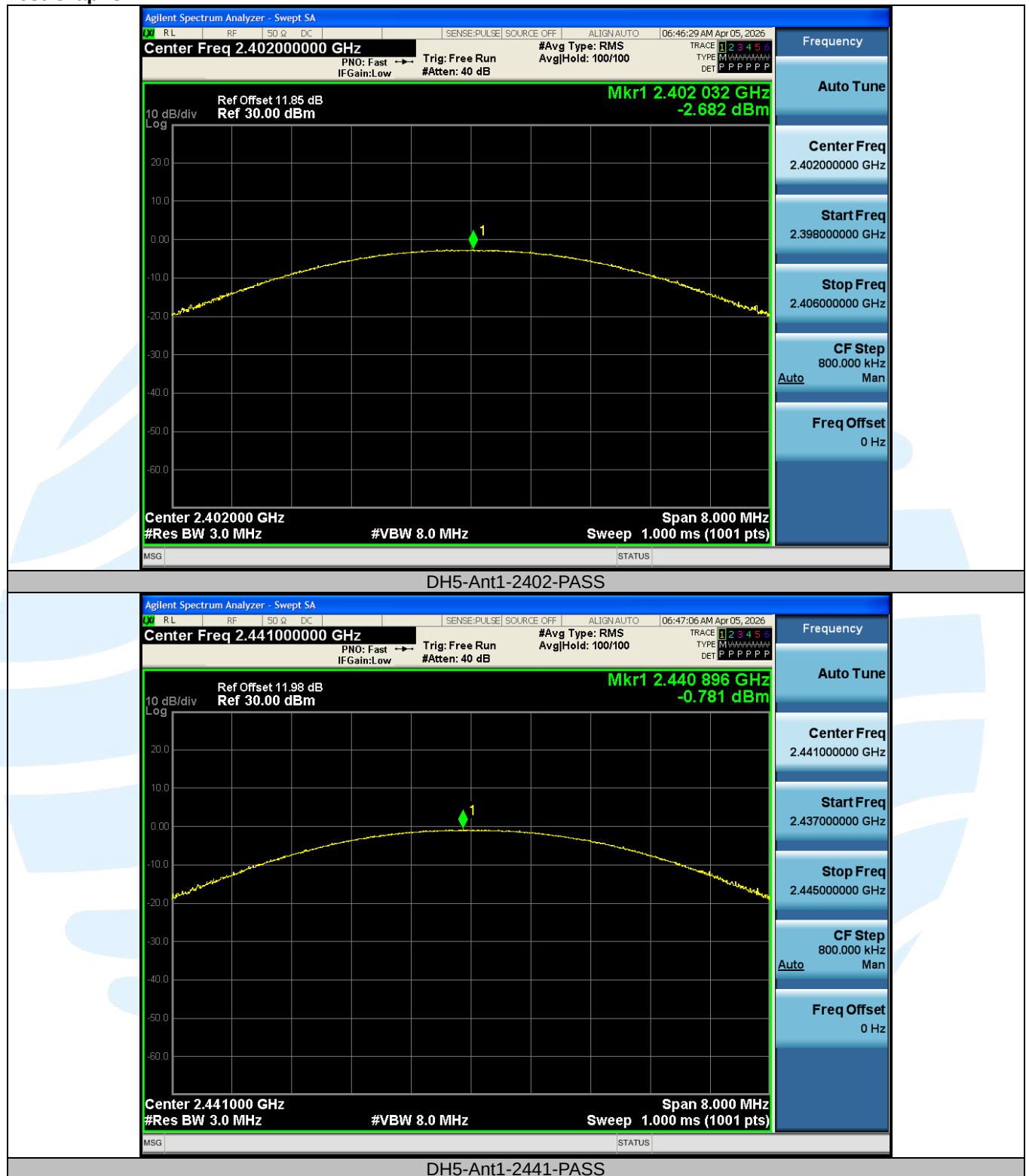
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Set Power	Conducted Peak Power[dBm]	Conducted Limit [dBm]	Gain [dBi]	E.I.R.P [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	5	-2.68	≤20.97	1.7	-0.98	36	PASS
DH5	Ant1	2441	5	-0.78	≤20.97	1.7	0.92	36	PASS
DH5	Ant1	2480	5	-0.35	≤20.97	1.7	1.35	36	PASS
2DH5	Ant1	2402	5	-1.93	≤20.97	1.7	-0.23	36	PASS
2DH5	Ant1	2441	5	-0.18	≤20.97	1.7	1.52	36	PASS
2DH5	Ant1	2480	5	0.28	≤20.97	1.7	1.98	36	PASS
3DH5	Ant1	2402	5	-1.53	≤20.97	1.7	0.17	36	PASS
3DH5	Ant1	2441	5	0.40	≤20.97	1.7	2.10	36	PASS
3DH5	Ant1	2480	5	0.87	≤20.97	1.7	2.57	36	PASS

Test Result Average

Test Mode	Ant.	Freq. [MHz]	Set Power	Result [dBm]	Limit [dBm]	Gain [dBi]	E.I.R.P [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	5	-2.69	≤20.97	1.7	-0.99	36	PASS
DH5	Ant1	2441	5	-1.35	≤20.97	1.7	0.35	36	PASS
DH5	Ant1	2480	5	-0.80	≤20.97	1.7	0.90	36	PASS
2DH5	Ant1	2402	5	-4.34	≤20.97	1.7	-2.64	36	PASS
2DH5	Ant1	2441	5	-2.97	≤20.97	1.7	-1.27	36	PASS
2DH5	Ant1	2480	5	-2.46	≤20.97	1.7	-0.76	36	PASS
3DH5	Ant1	2402	5	-4.34	≤20.97	1.7	-2.64	36	PASS
3DH5	Ant1	2441	5	-2.96	≤20.97	1.7	-1.26	36	PASS
3DH5	Ant1	2480	5	-2.48	≤20.97	1.7	-0.78	36	PASS

Test Graphs



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Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

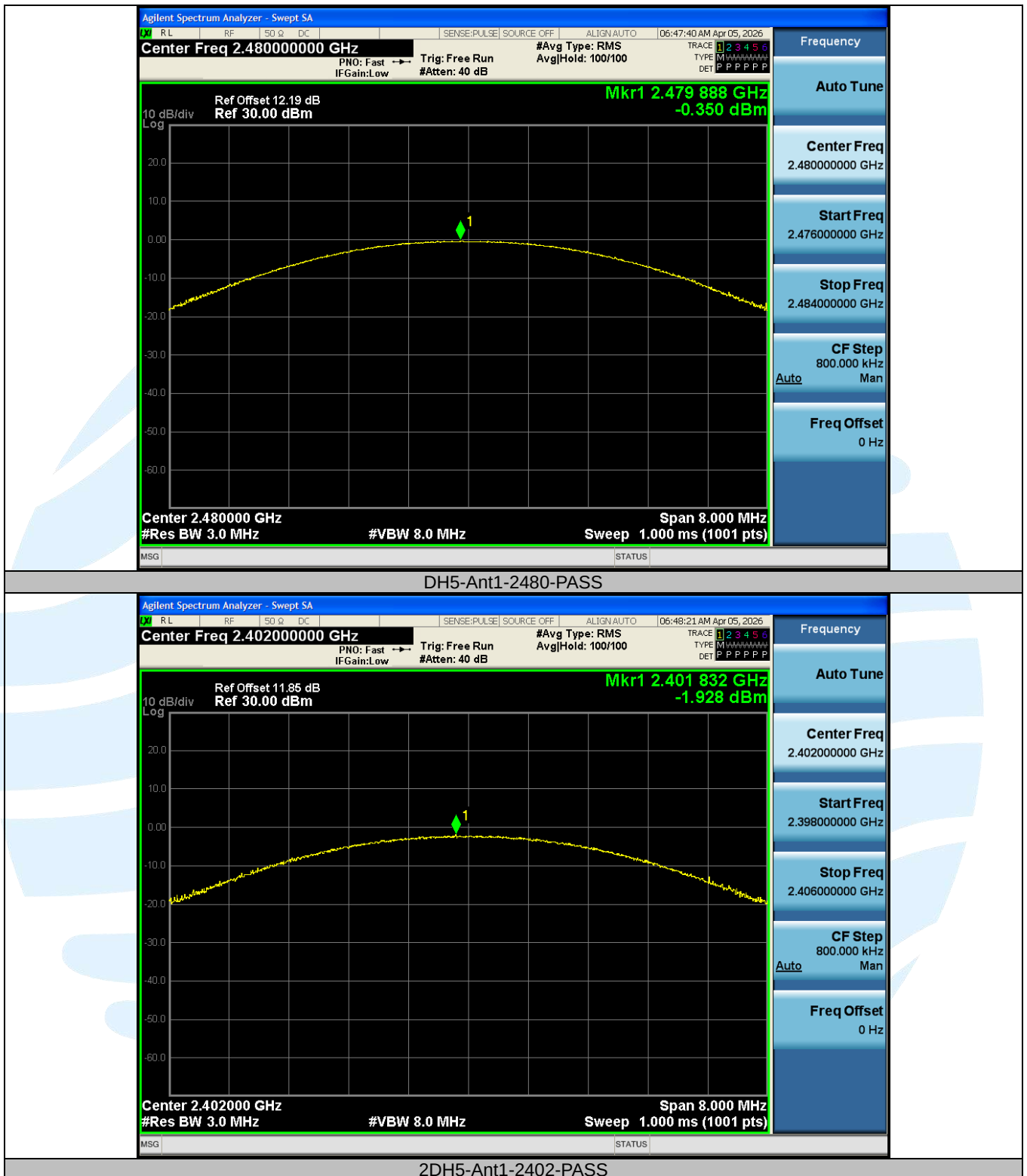
Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

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Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

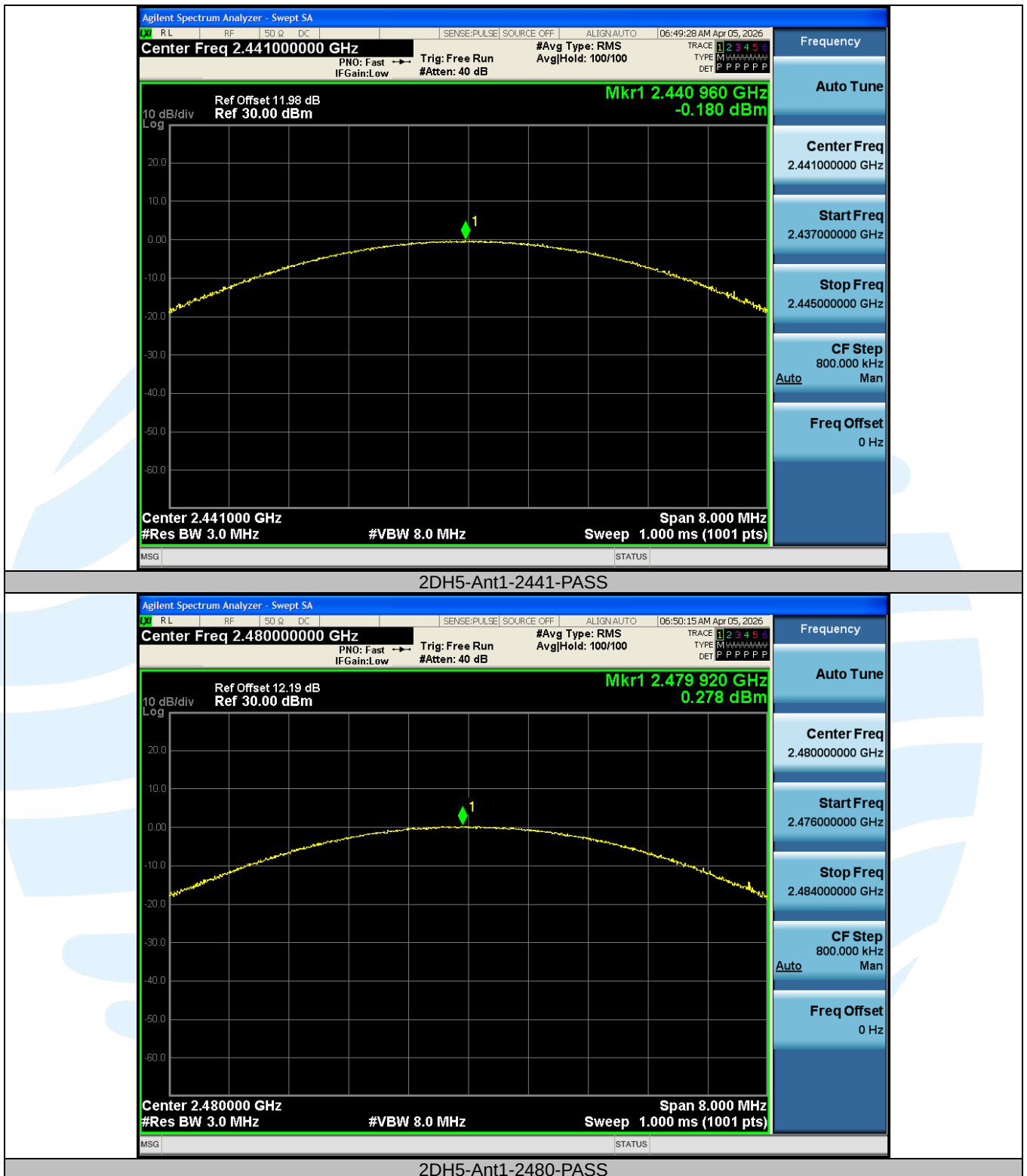
Tel: +86-755-28230888

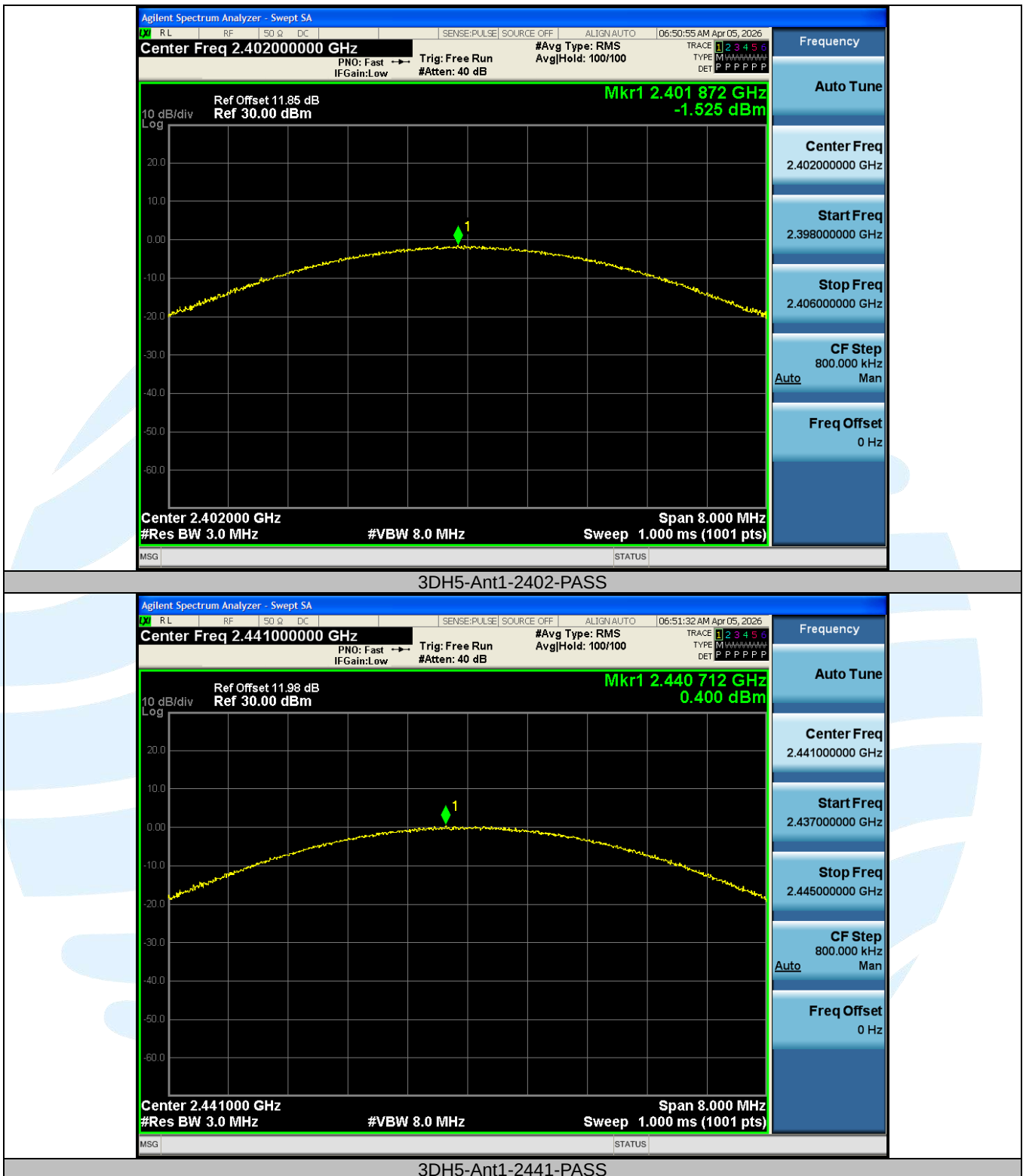
Fax: +86-755-28230886

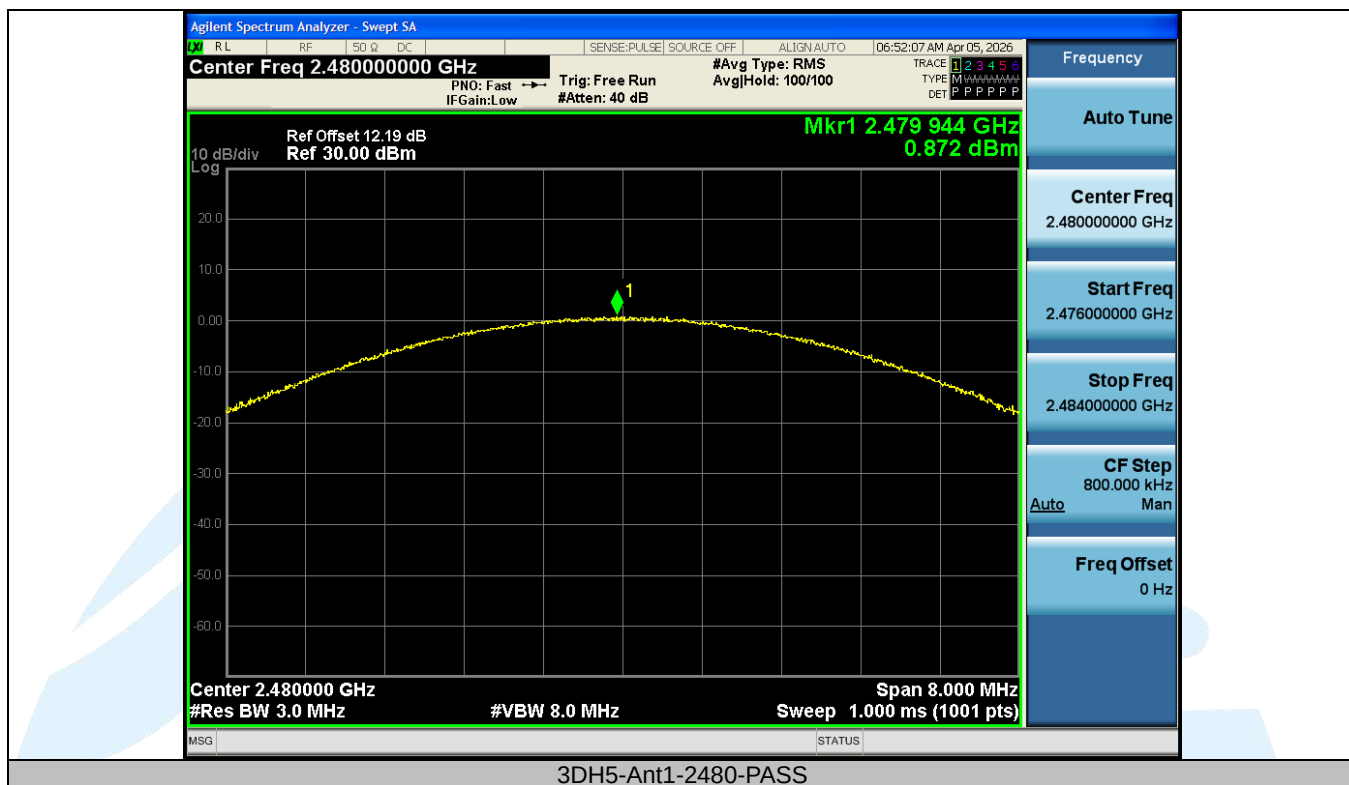
E-mail: info@uttlab.com

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Right earbud

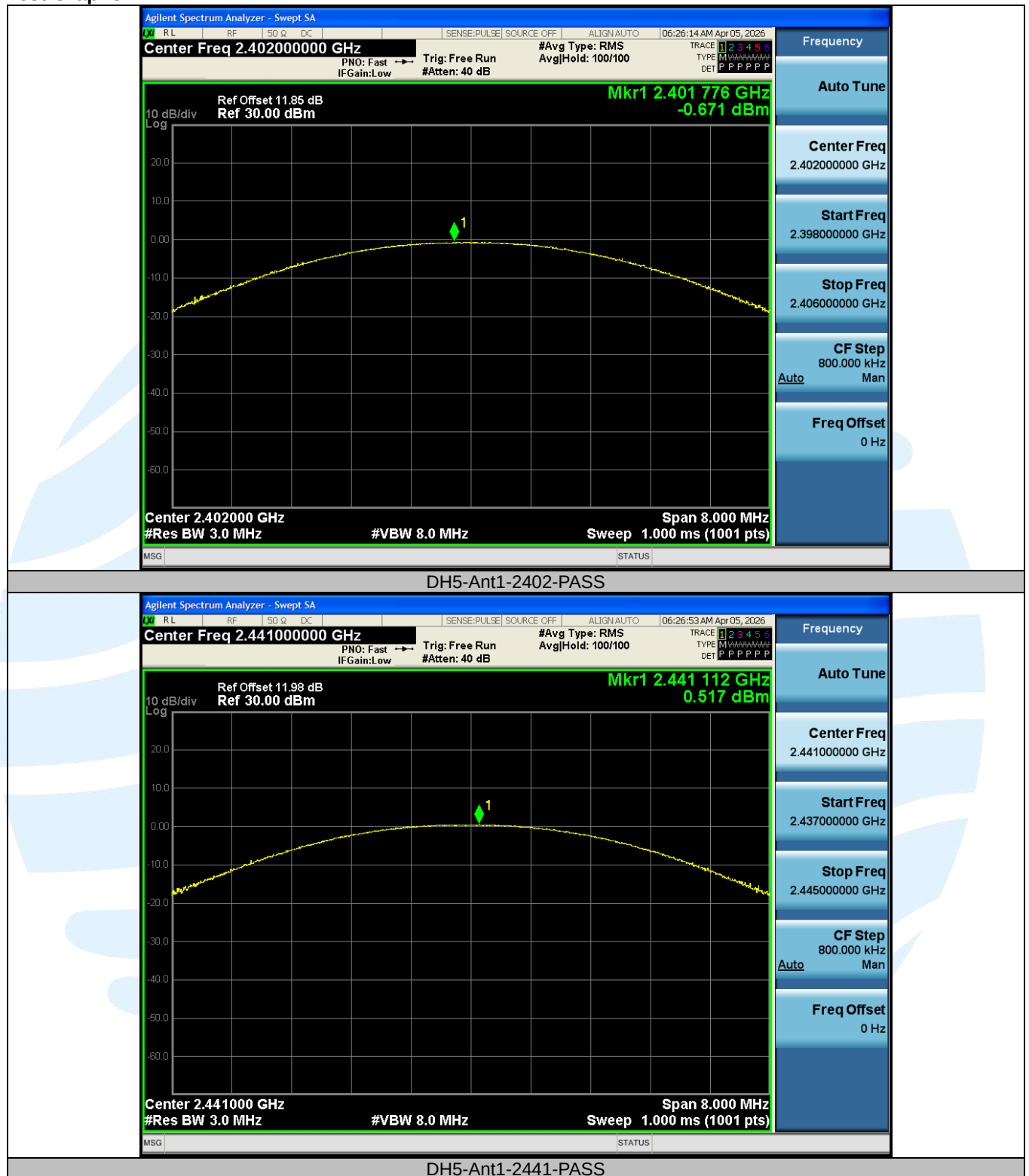
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Set Power	Conducted Peak Power[dBm]	Conducted Limit [dBm]	Gain [dBi]	E.I.R.P [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	5	-0.67	≤20.97	1.7	1.03	36	PASS
DH5	Ant1	2441	5	0.52	≤20.97	1.7	2.22	36	PASS
DH5	Ant1	2480	5	0.86	≤20.97	1.7	2.56	36	PASS
2DH5	Ant1	2402	5	0.01	≤20.97	1.7	1.71	36	PASS
2DH5	Ant1	2441	5	1.16	≤20.97	1.7	2.86	36	PASS
2DH5	Ant1	2480	5	1.64	≤20.97	1.7	3.34	36	PASS
3DH5	Ant1	2402	5	0.48	≤20.97	1.7	2.18	36	PASS
3DH5	Ant1	2441	5	1.71	≤20.97	1.7	3.41	36	PASS
3DH5	Ant1	2480	5	2.09	≤20.97	1.7	3.79	36	PASS

Test Result Average

Test Mode	Ant.	Freq. [MHz]	Set Power	Result [dBm]	Limit [dBm]	Gain [dBi]	E.I.R.P [dBm]	E.I.R.P Limit [dBm]	Verdict
DH5	Ant1	2402	5	-0.93	≤20.97	1.7	0.77	36	PASS
DH5	Ant1	2441	5	0.05	≤20.97	1.7	1.75	36	PASS
DH5	Ant1	2480	5	0.50	≤20.97	1.7	2.20	36	PASS
2DH5	Ant1	2402	5	-2.58	≤20.97	1.7	-0.88	36	PASS
2DH5	Ant1	2441	5	-1.67	≤20.97	1.7	0.03	36	PASS
2DH5	Ant1	2480	5	-1.16	≤20.97	1.7	0.54	36	PASS
3DH5	Ant1	2402	5	-2.57	≤20.97	1.7	-0.87	36	PASS
3DH5	Ant1	2441	5	-1.69	≤20.97	1.7	0.01	36	PASS
3DH5	Ant1	2480	5	-1.19	≤20.97	1.7	0.51	36	PASS

Test Graphs



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Address: 16/F., Block A, Building 6, Baoneng Science and Technology Park, Longhua Street, Longhua District, Shenzhen, Guangdong, China

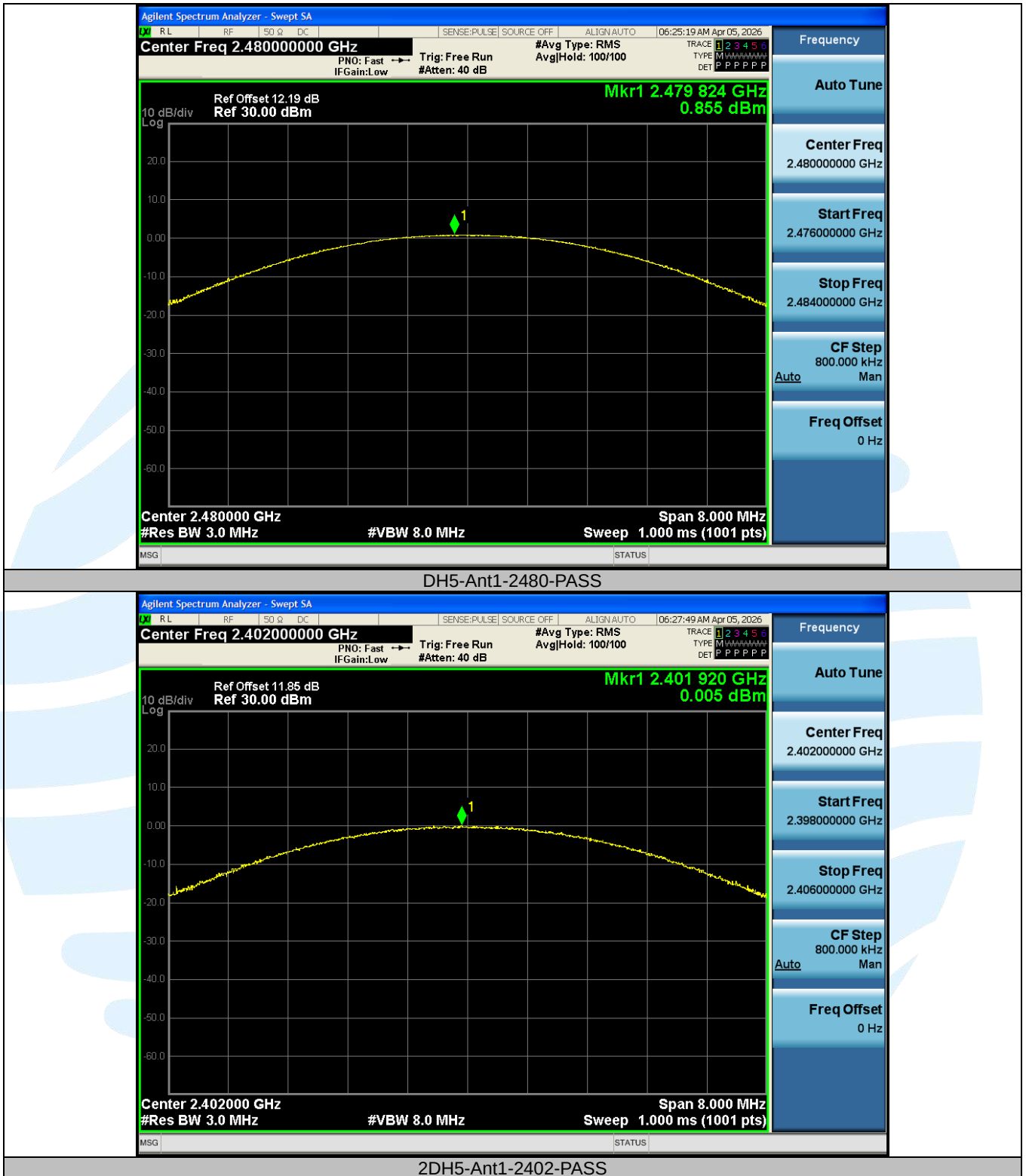
Tel: +86-755-28230888

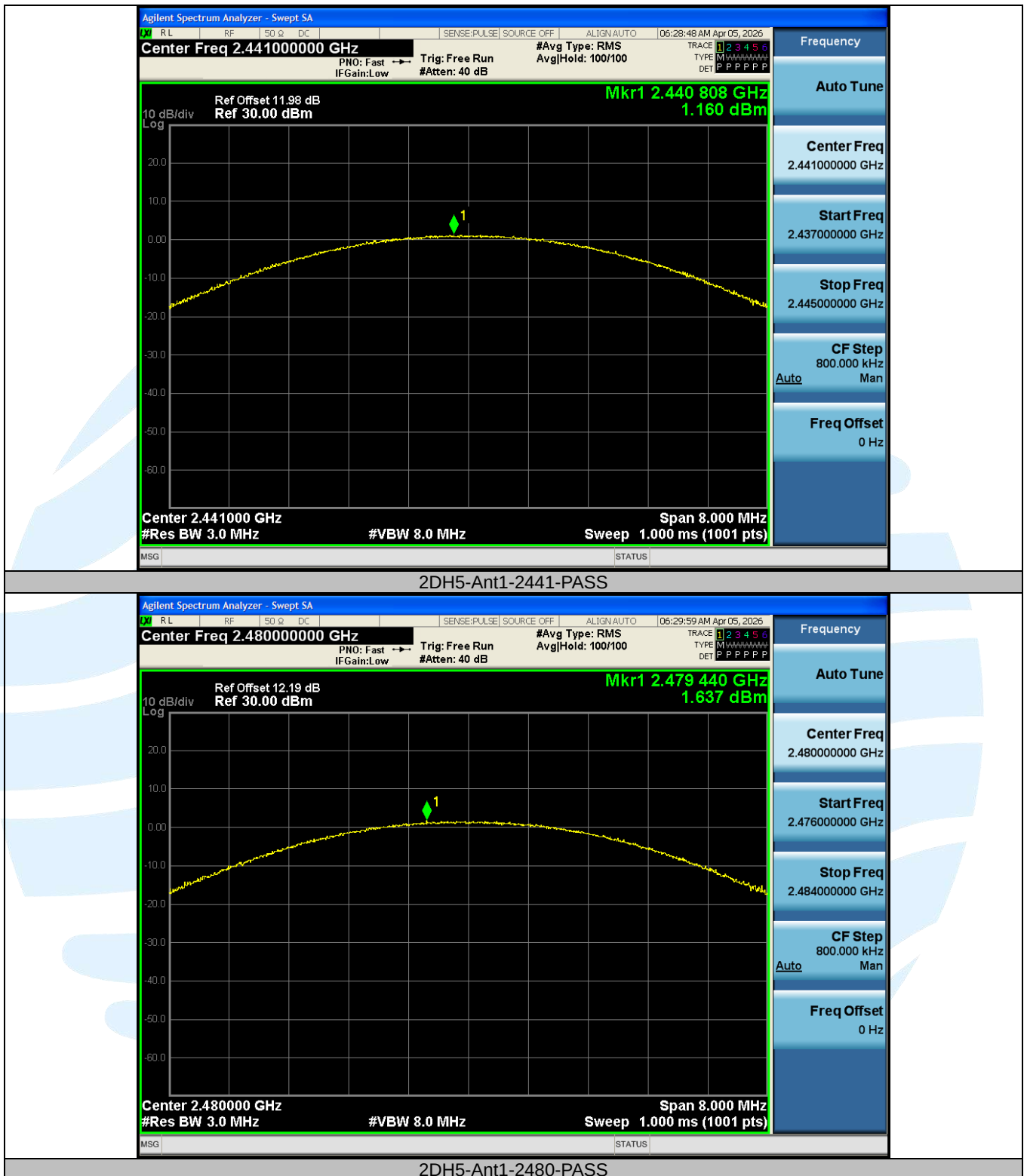
Fax: +86-755-28230886

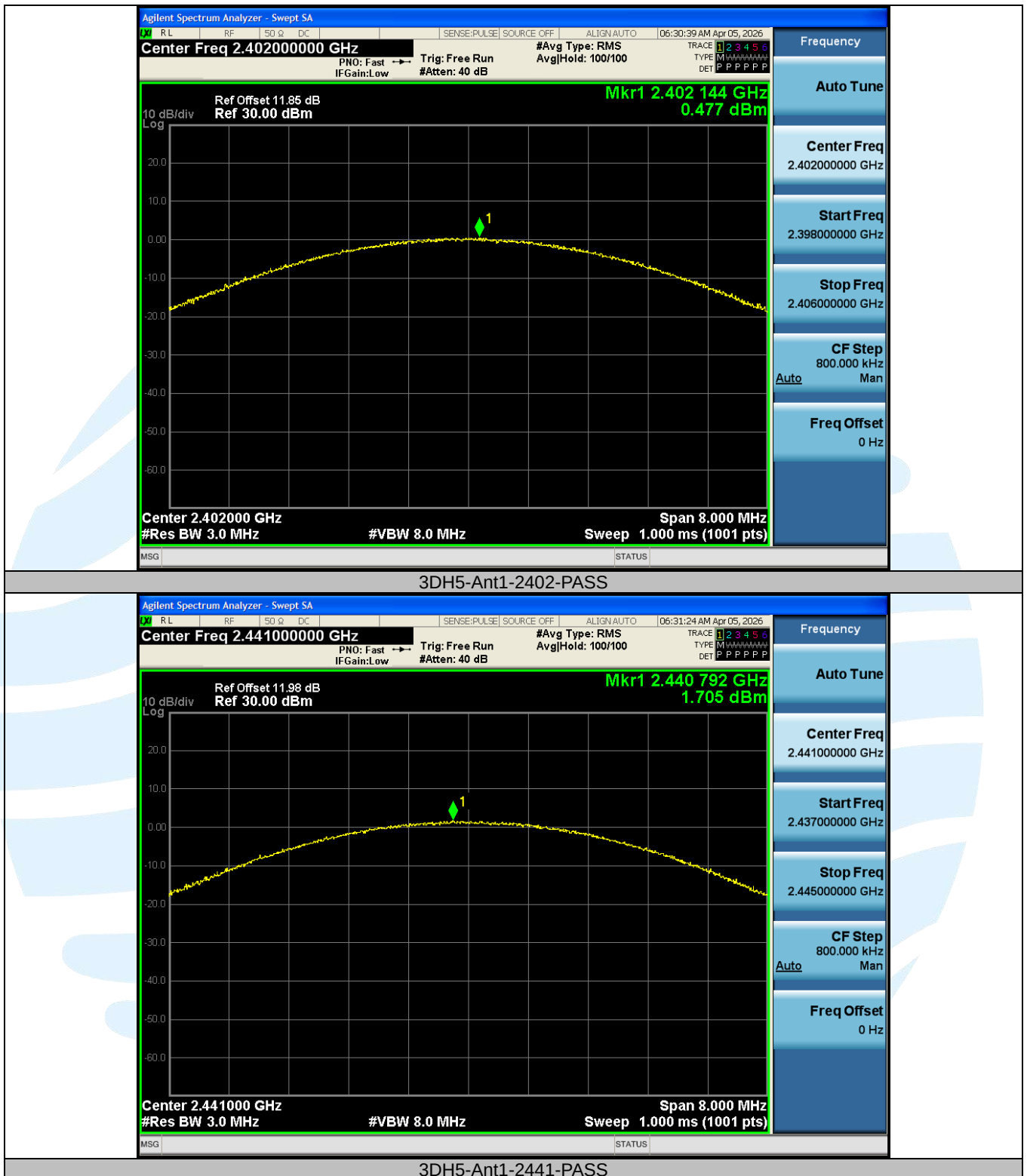
E-mail: info@uttlab.com

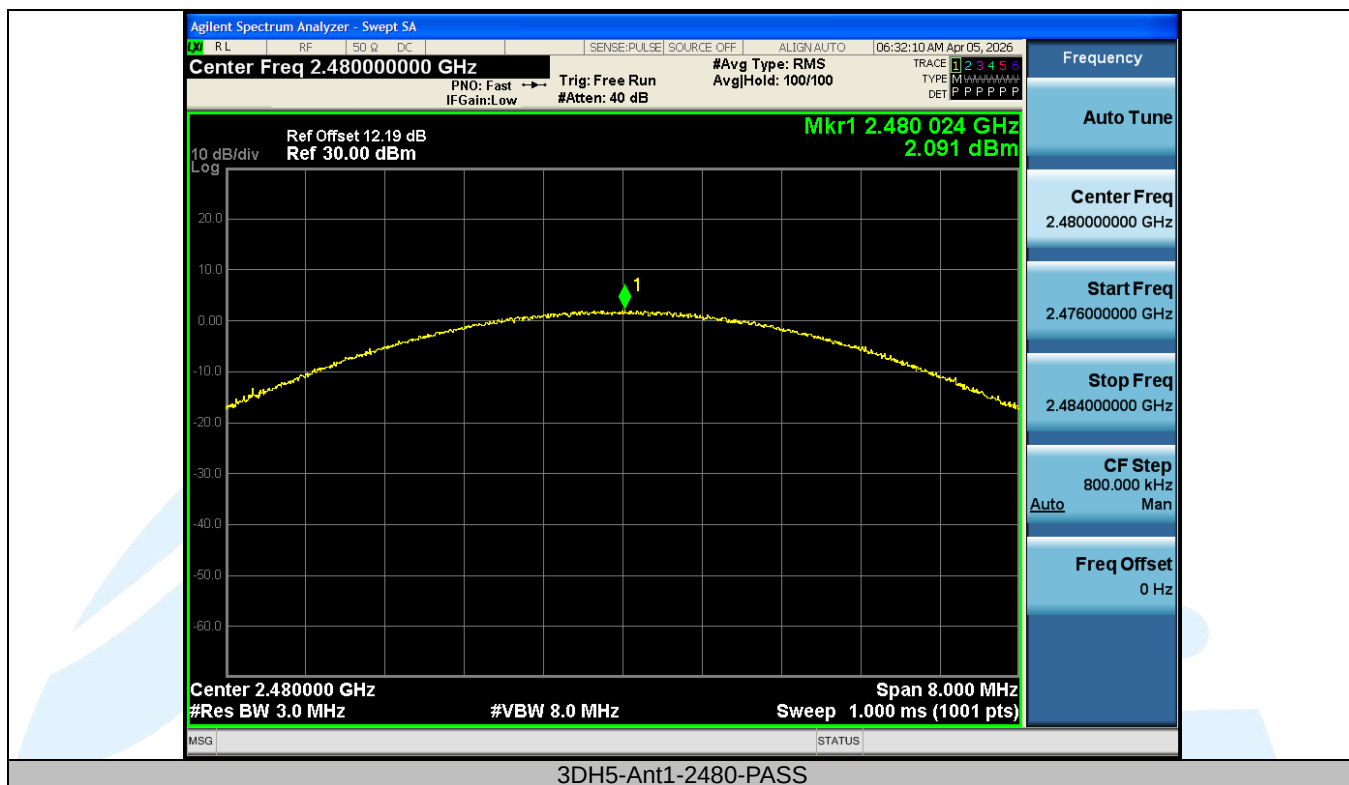
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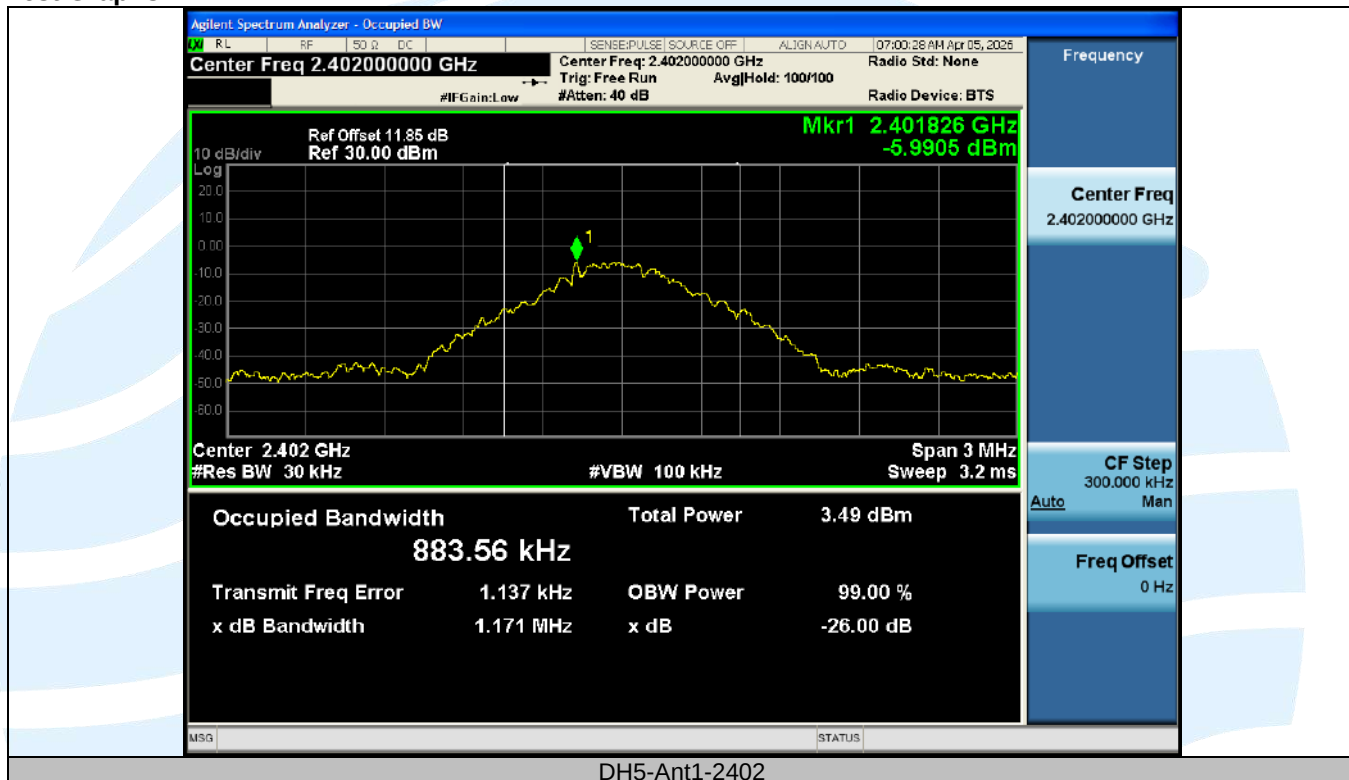
UTTR-RF-RSS247-V1.1

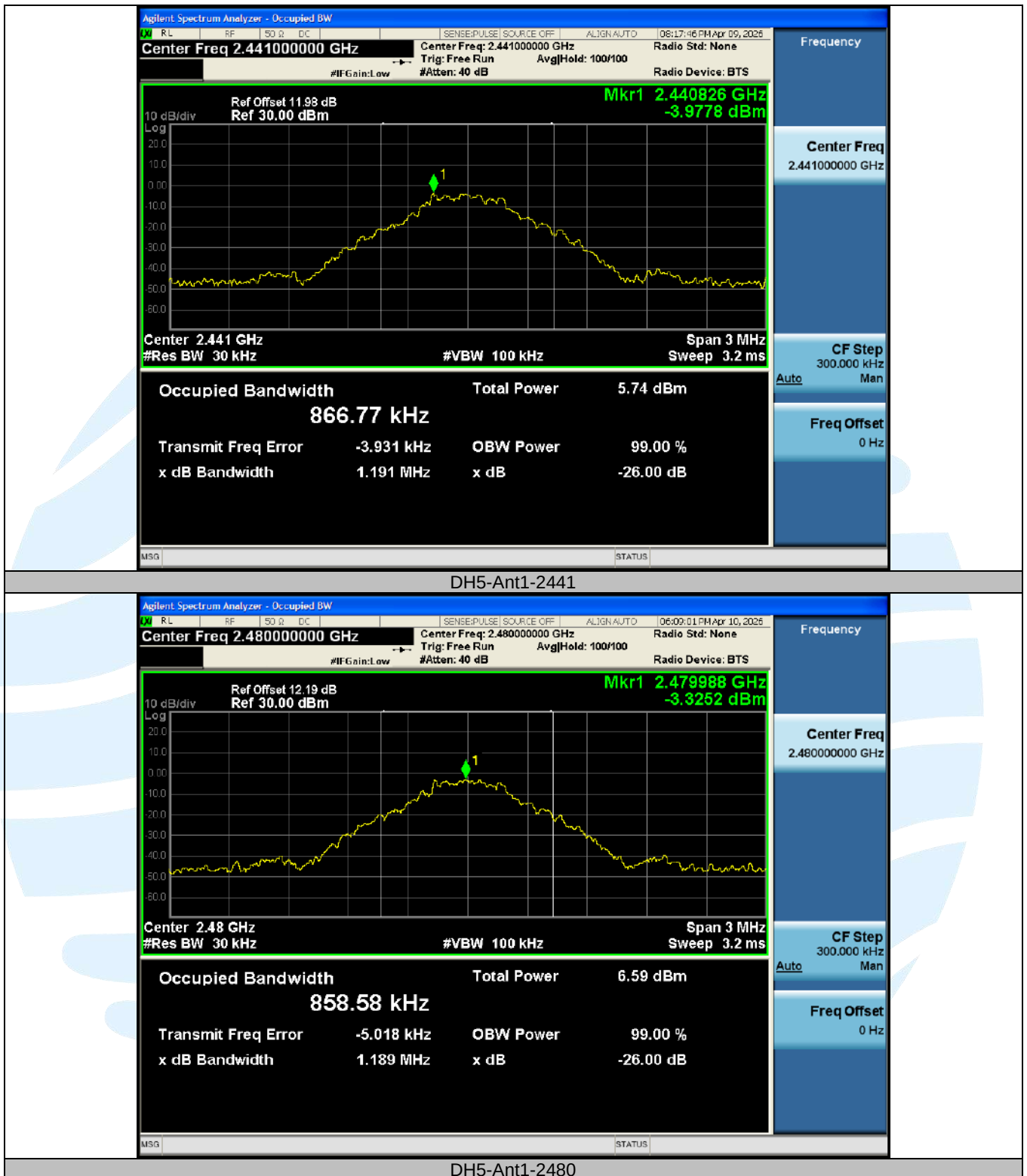
A.2 99% BANDWIDTH

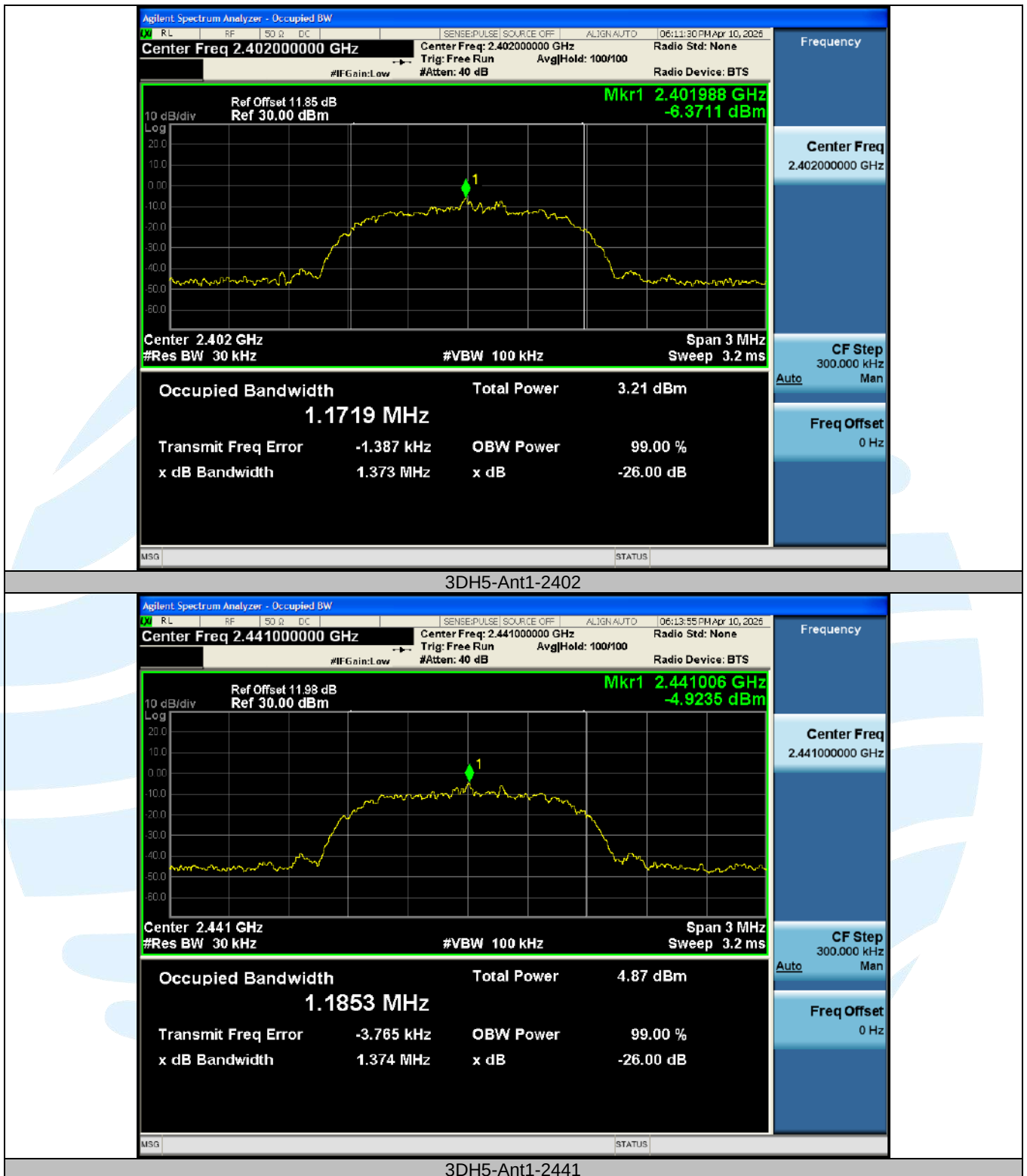
Left earbud

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
DH5	Ant1	2402	0.88356	2401.5594	2402.4429
DH5	Ant1	2441	0.86677	2440.5627	2441.4295
DH5	Ant1	2480	0.85858	2479.5657	2480.4243
3DH5	Ant1	2402	1.1719	2401.4127	2402.5846
3DH5	Ant1	2441	1.1853	2440.4036	2441.5889
3DH5	Ant1	2480	1.1825	2479.4062	2480.5887

Test Graphs







Agilent Spectrum Analyzer - Occupied BW

Center Freq 2.441000000 GHz

Center Freq: 2.441000000 GHz

Trig: Free Run

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

#IF Gain: Low

#Atten: 40 dB

Ref Offset 11.93 dB

Ref 30.00 dBm

Mkr1 2.441006 GHz

-4.9235 dBm

10 dB/div

Log

Center 2.441 GHz

#Res BW 30 kHz

#VBW 100 kHz

Span 3 MHz

Sweep 3.2 ms

Occupied Bandwidth

1.1853 MHz

Total Power

4.87 dBm

Transmit Freq Error

-3.765 kHz

OBW Power

99.00 %

x dB Bandwidth

1.374 MHz

x dB

-26.00 dB

MSG

STATUS

Frequency

Center Freq

2.441000000 GHz

CF Step

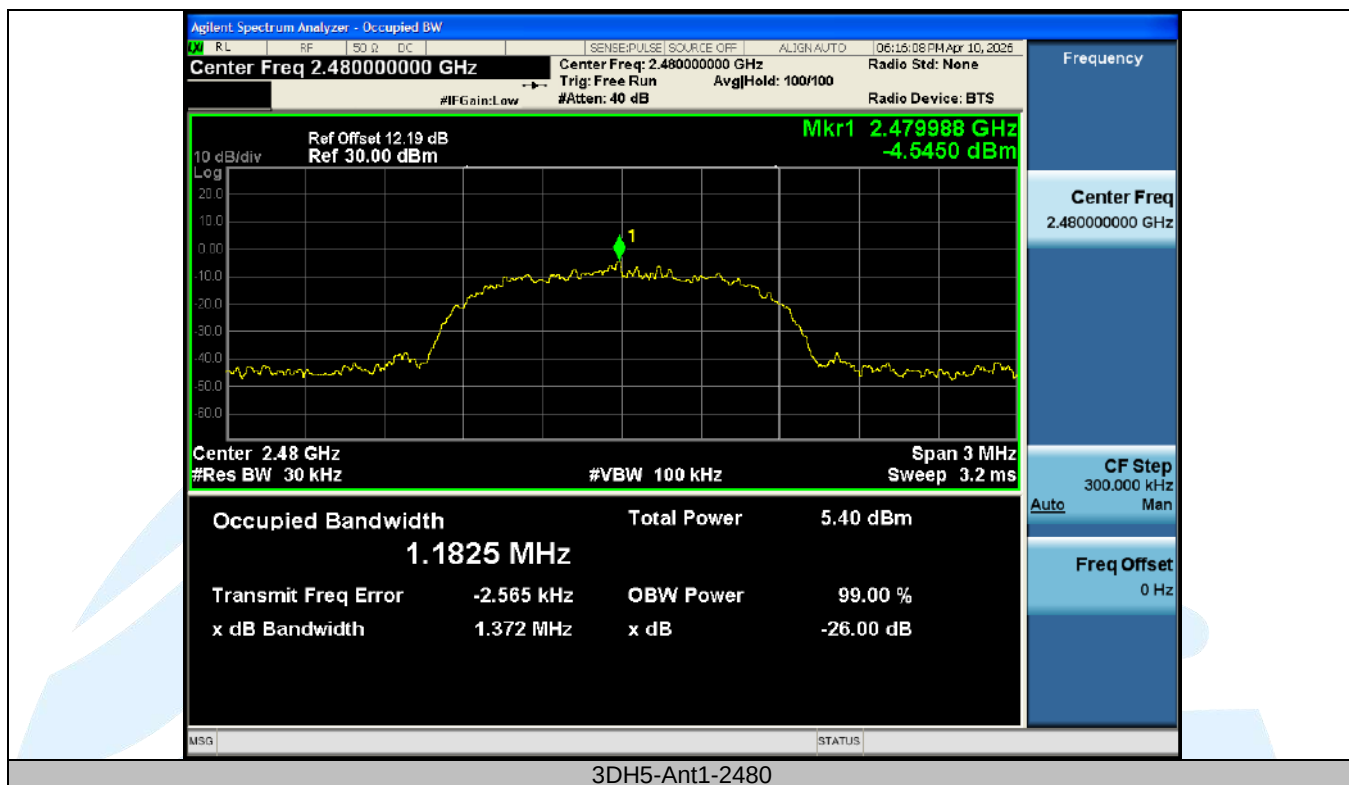
300.000 kHz

Auto

Man

Freq Offset

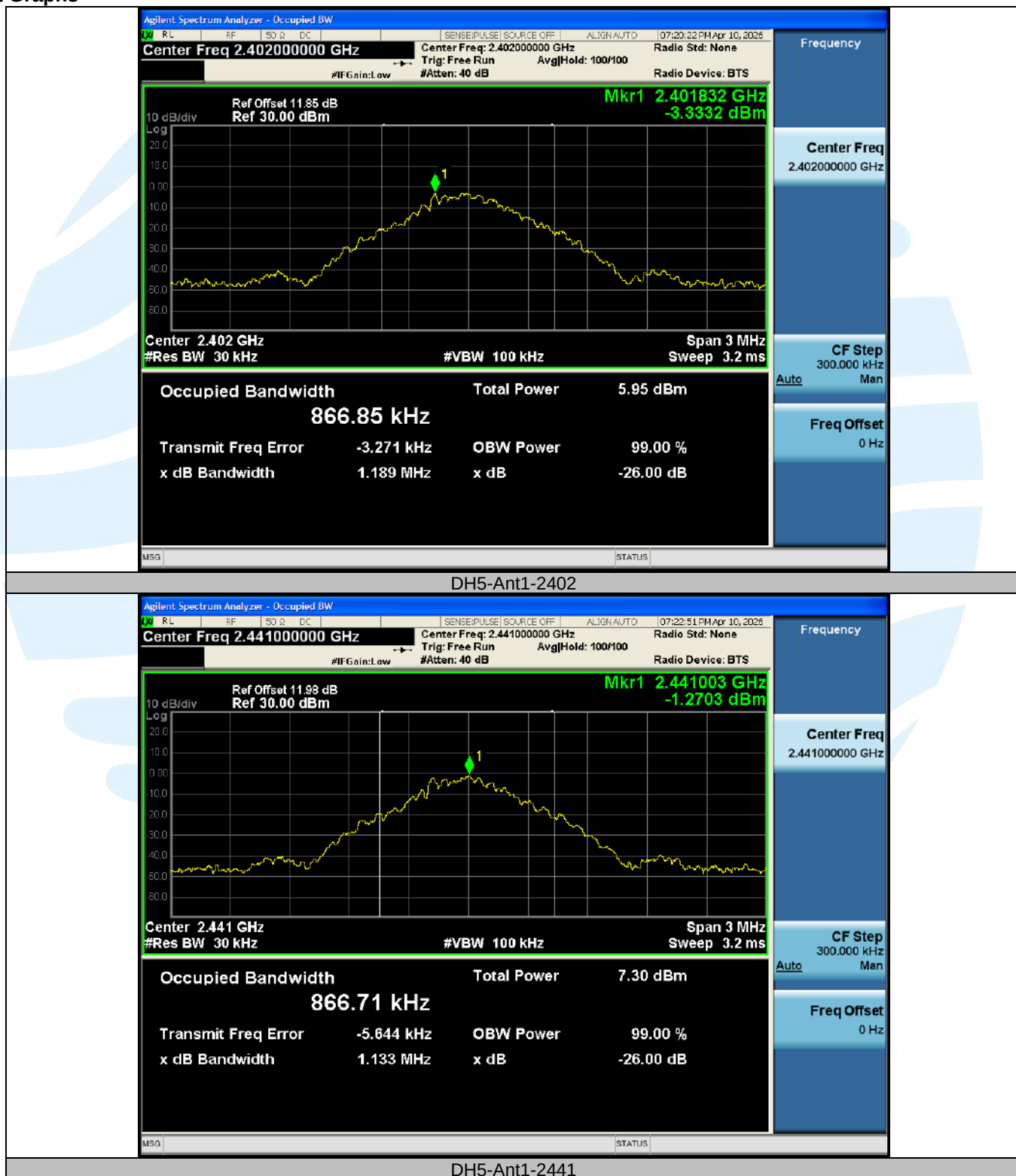
0 Hz



Right earbud

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]
DH5	Ant1	2402	0.86685	2401.5633	2402.4302
DH5	Ant1	2441	0.86671	2440.5610	2441.4277
DH5	Ant1	2480	0.86863	2479.5594	2480.4280
3DH5	Ant1	2402	1.1873	2401.3983	2402.5856
3DH5	Ant1	2441	1.1879	2440.3974	2441.5853
3DH5	Ant1	2480	1.1793	2479.4018	2480.5811

Test Graphs



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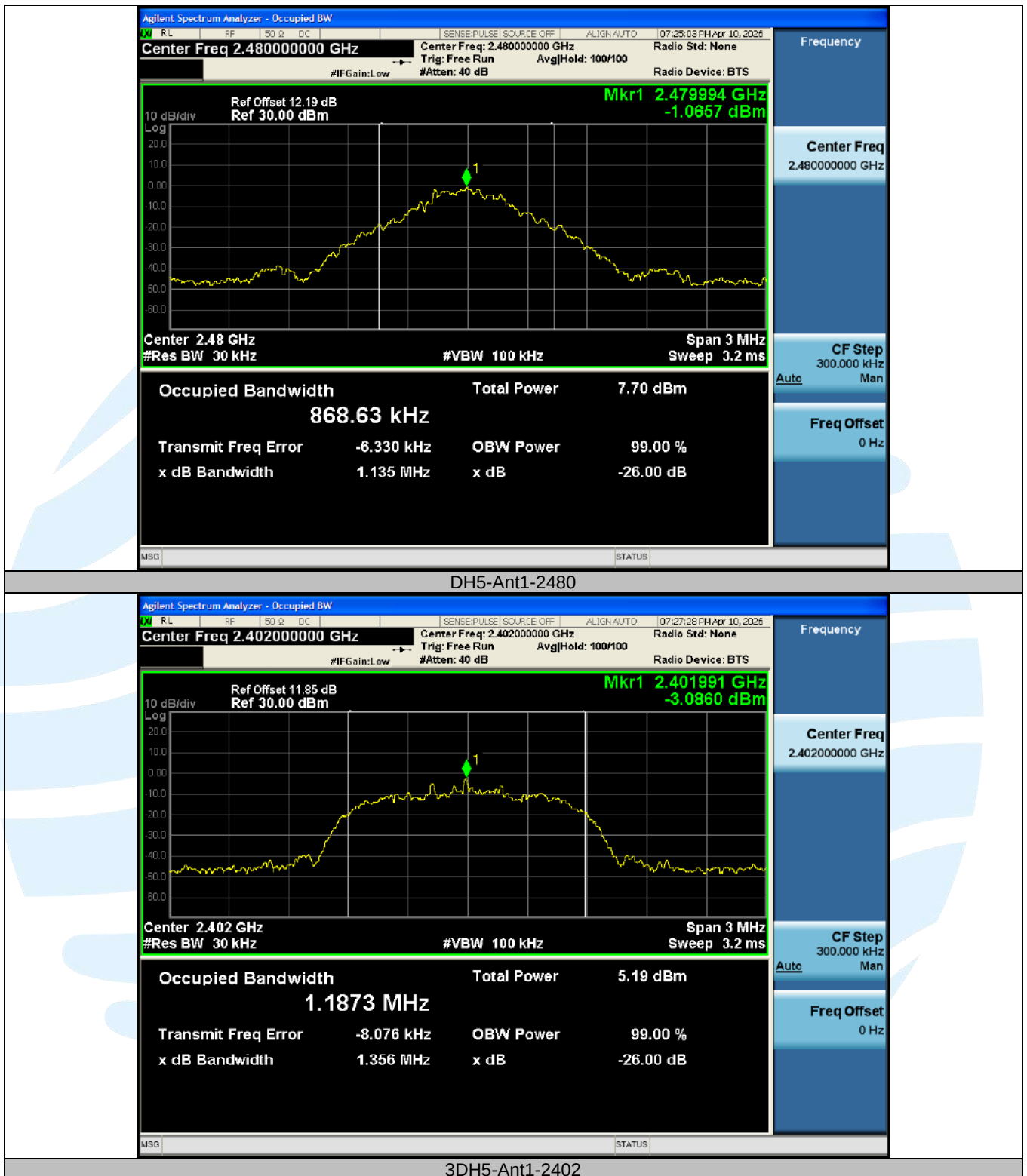
Tel: +86-755-28230888

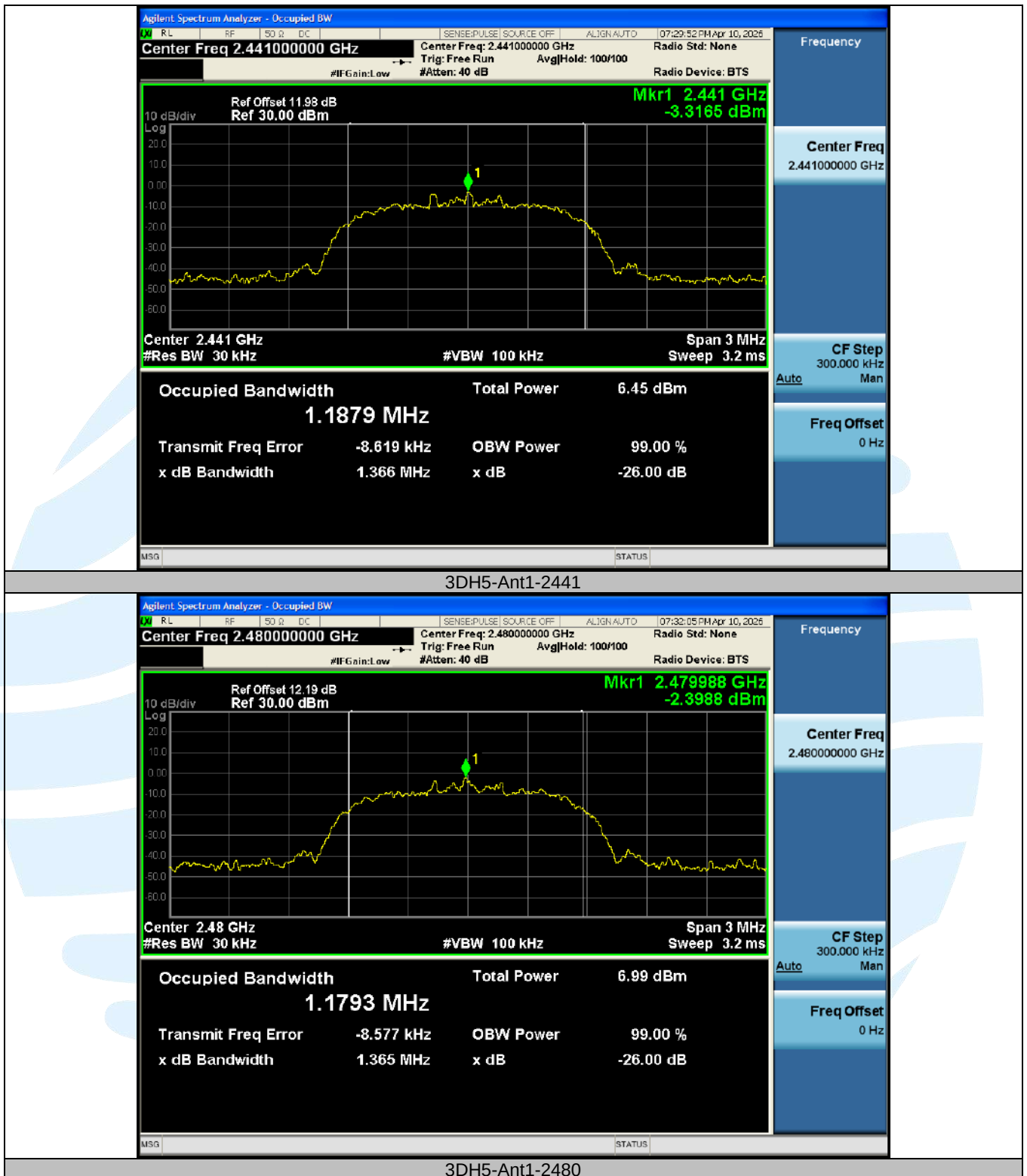
Fax: +86-755-28230886

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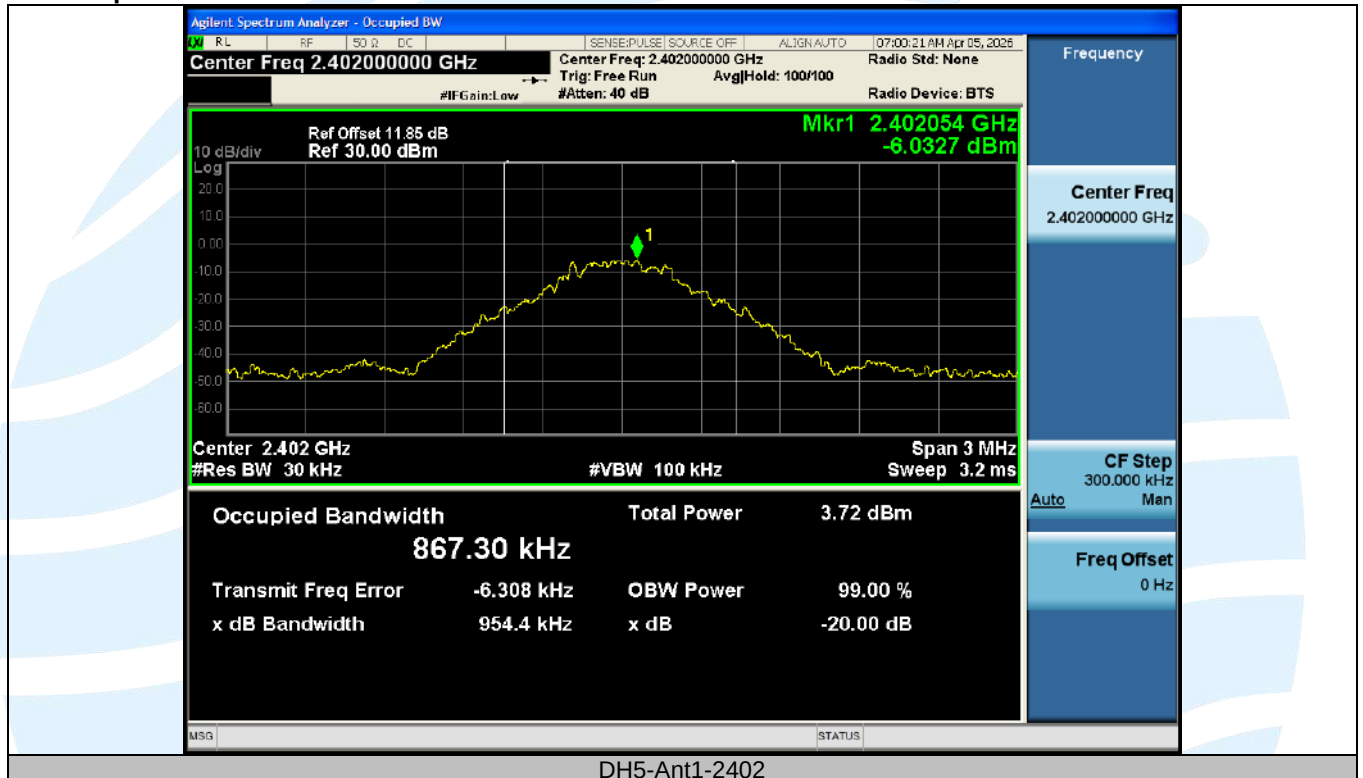
A.3 20DB BANDWIDTH

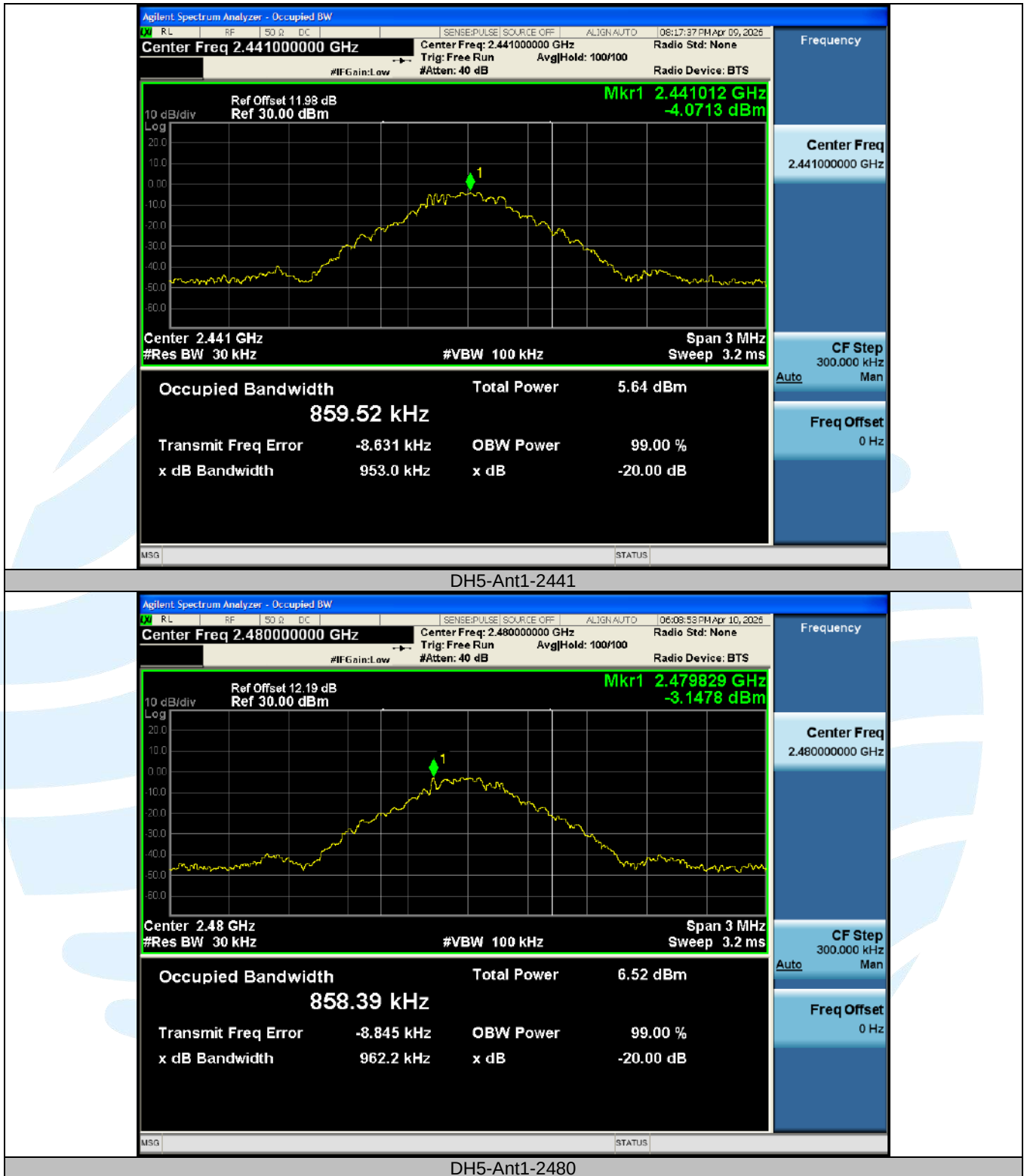
Left earbud

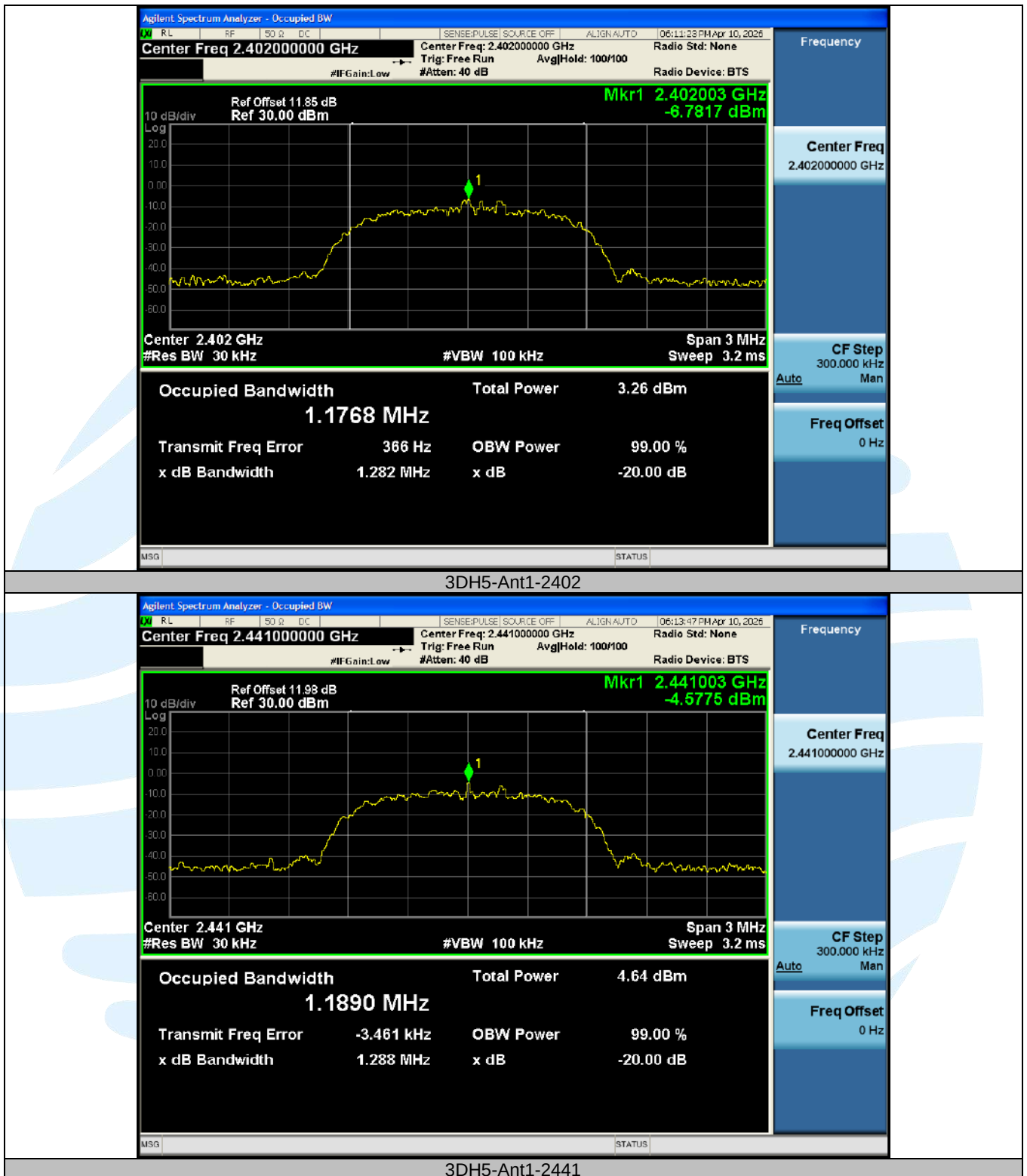
Test Result

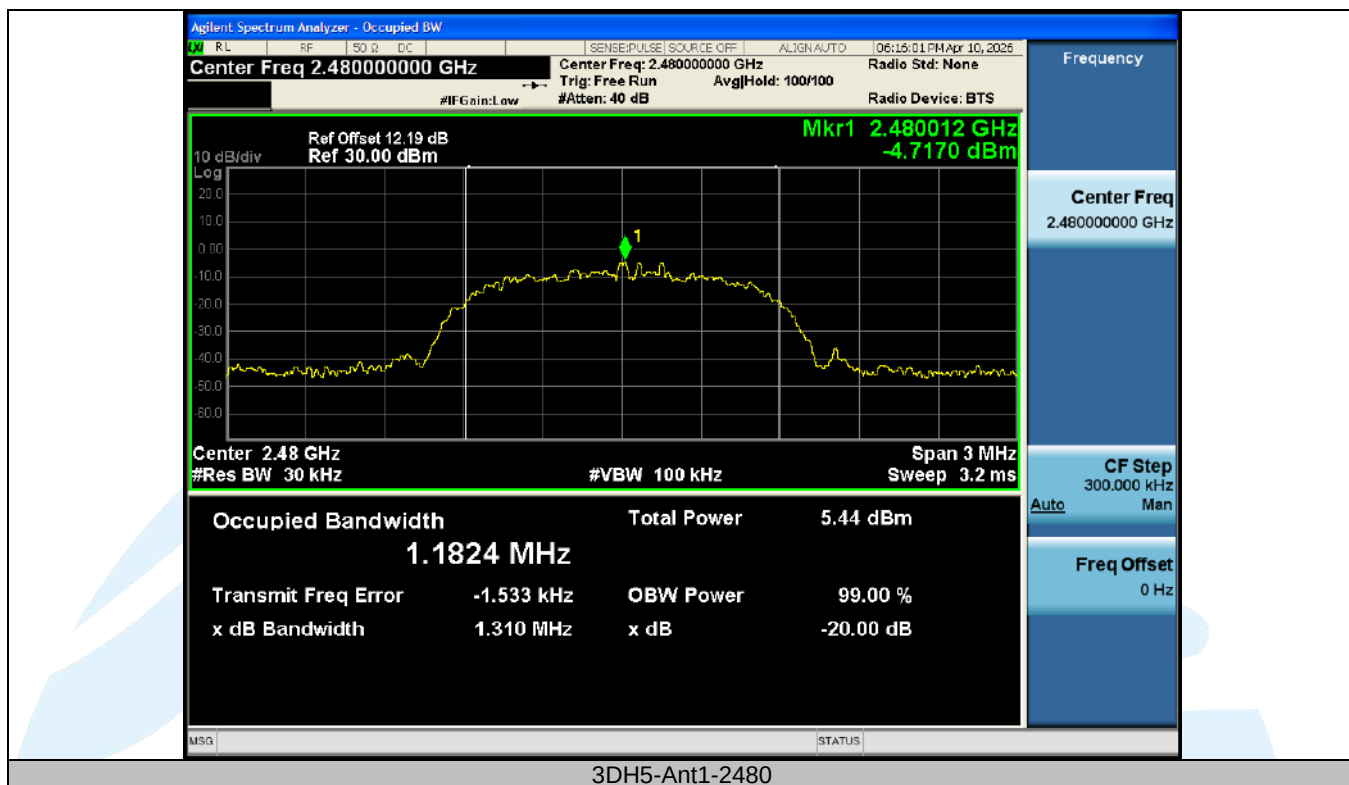
Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	0.9544
DH5	Ant1	2441	0.9530
DH5	Ant1	2480	0.9622
3DH5	Ant1	2402	1.282
3DH5	Ant1	2441	1.288
3DH5	Ant1	2480	1.310

Test Graphs







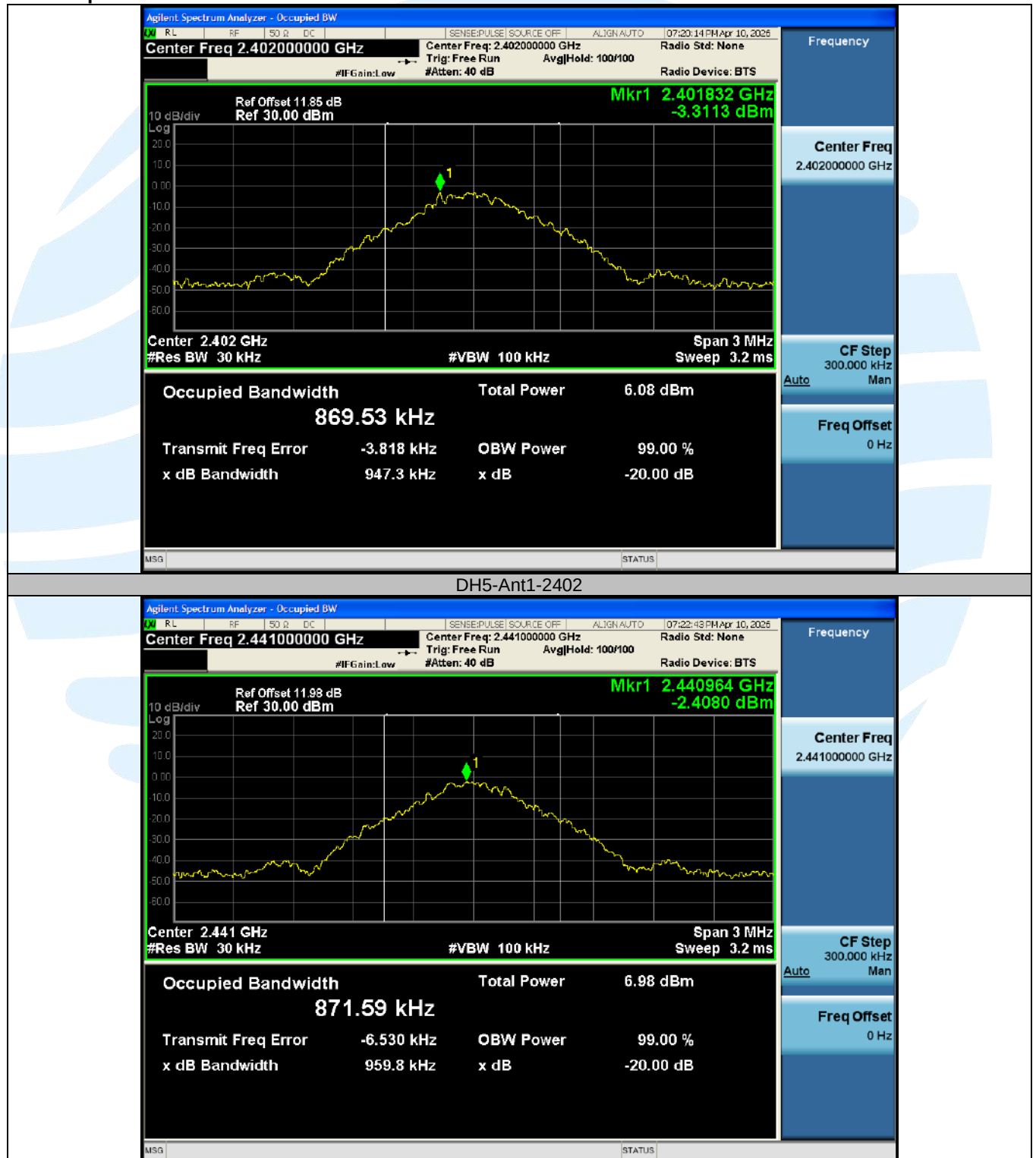


Right earbud

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	0.9473
DH5	Ant1	2441	0.9598
DH5	Ant1	2480	0.9479
3DH5	Ant1	2402	1.305
3DH5	Ant1	2441	1.298
3DH5	Ant1	2480	1.288

Test Graphs



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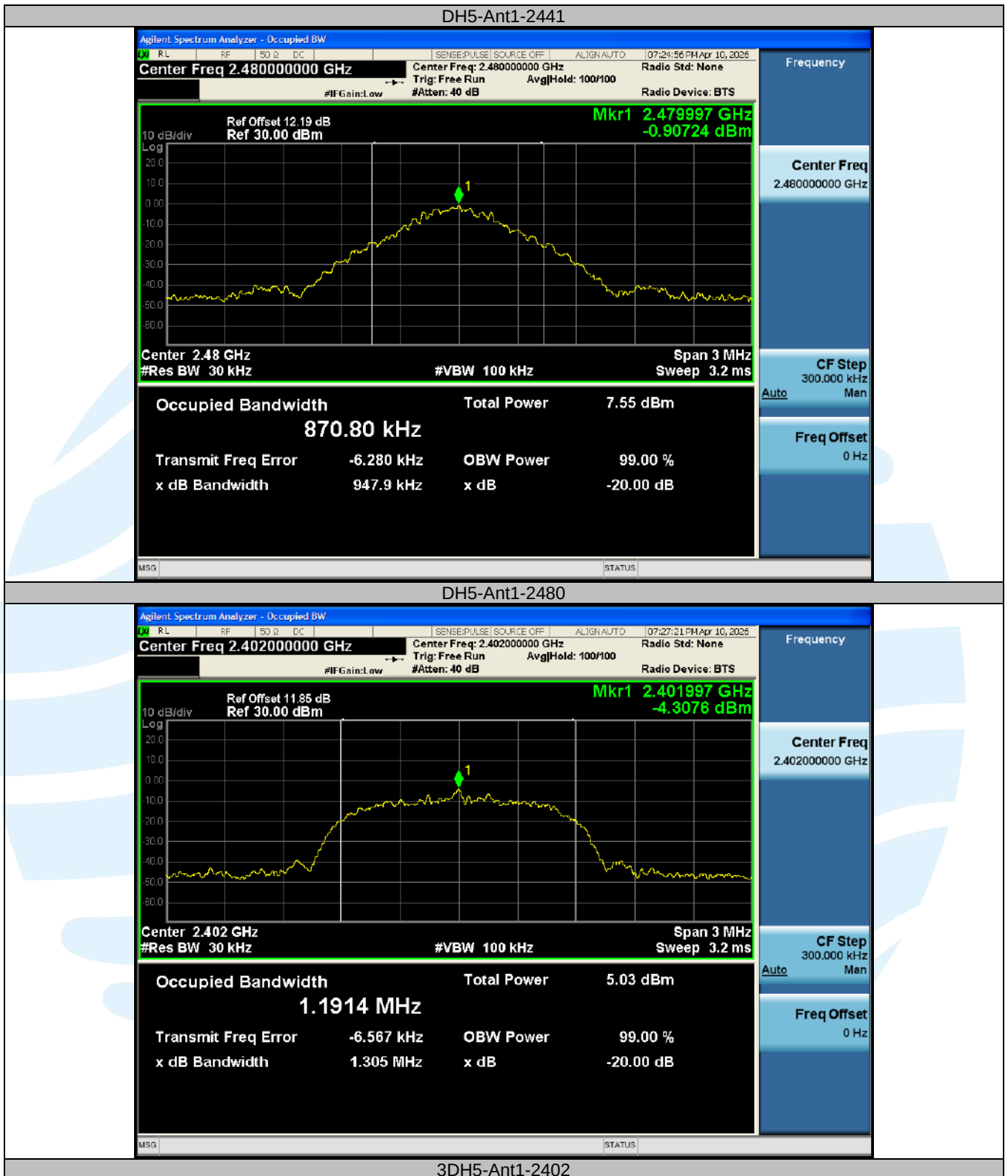
Tel: +86-755-28230888

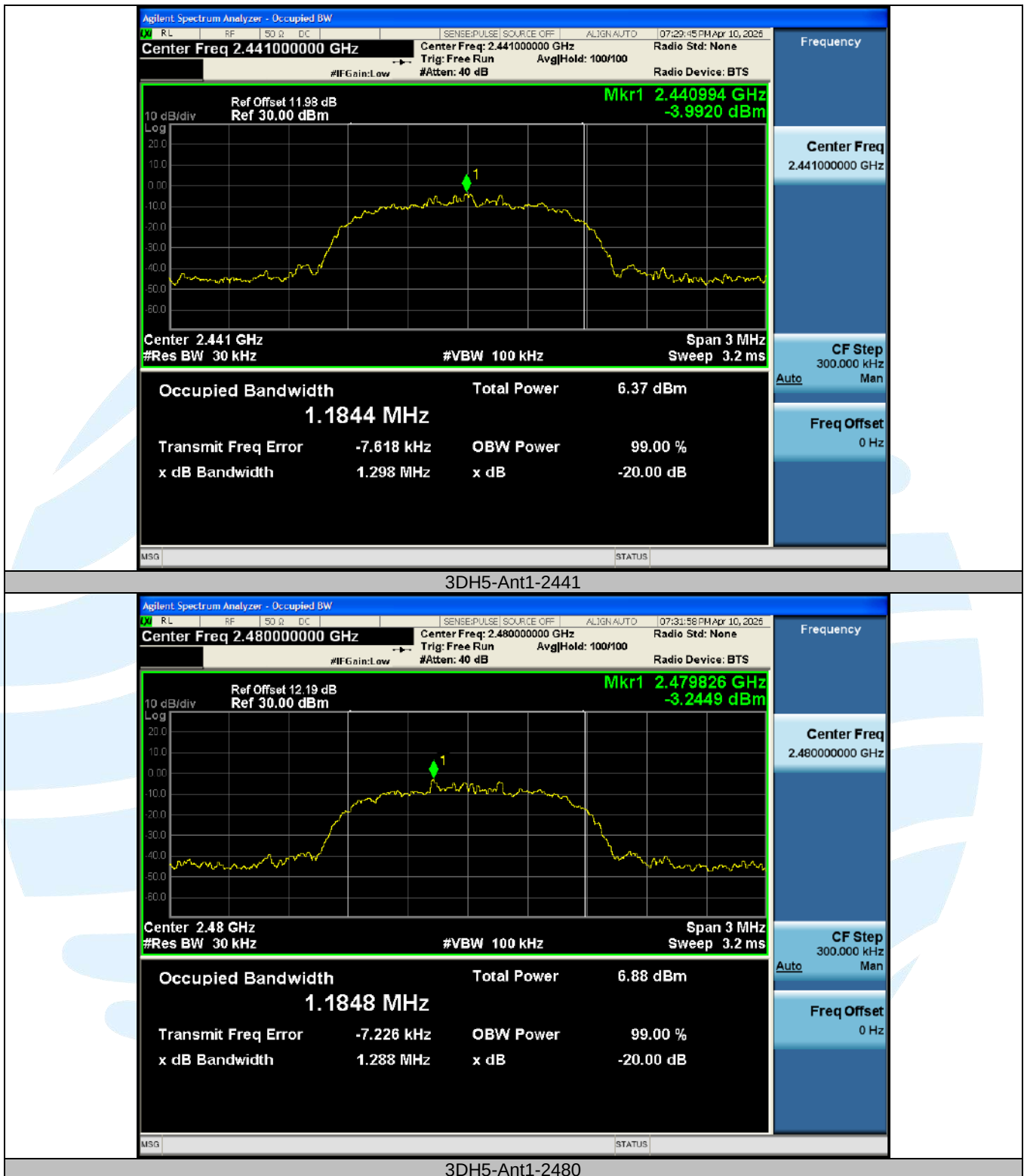
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A.4 CARRIER FREQUENCIES SEPARATION

Left earbud

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop_2402	1.018	≥ 0.641	PASS
3DH5	Ant1	Hop_2402	1.148	≥ 0.873	PASS

Test Graphs



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Right earbud

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop_2402	1.002	≥ 0.640	PASS
3DH5	Ant1	Hop_2402	1.012	≥ 0.870	PASS

Test Graphs



A.5 CONDUCTED OUT OF BAND EMISSION

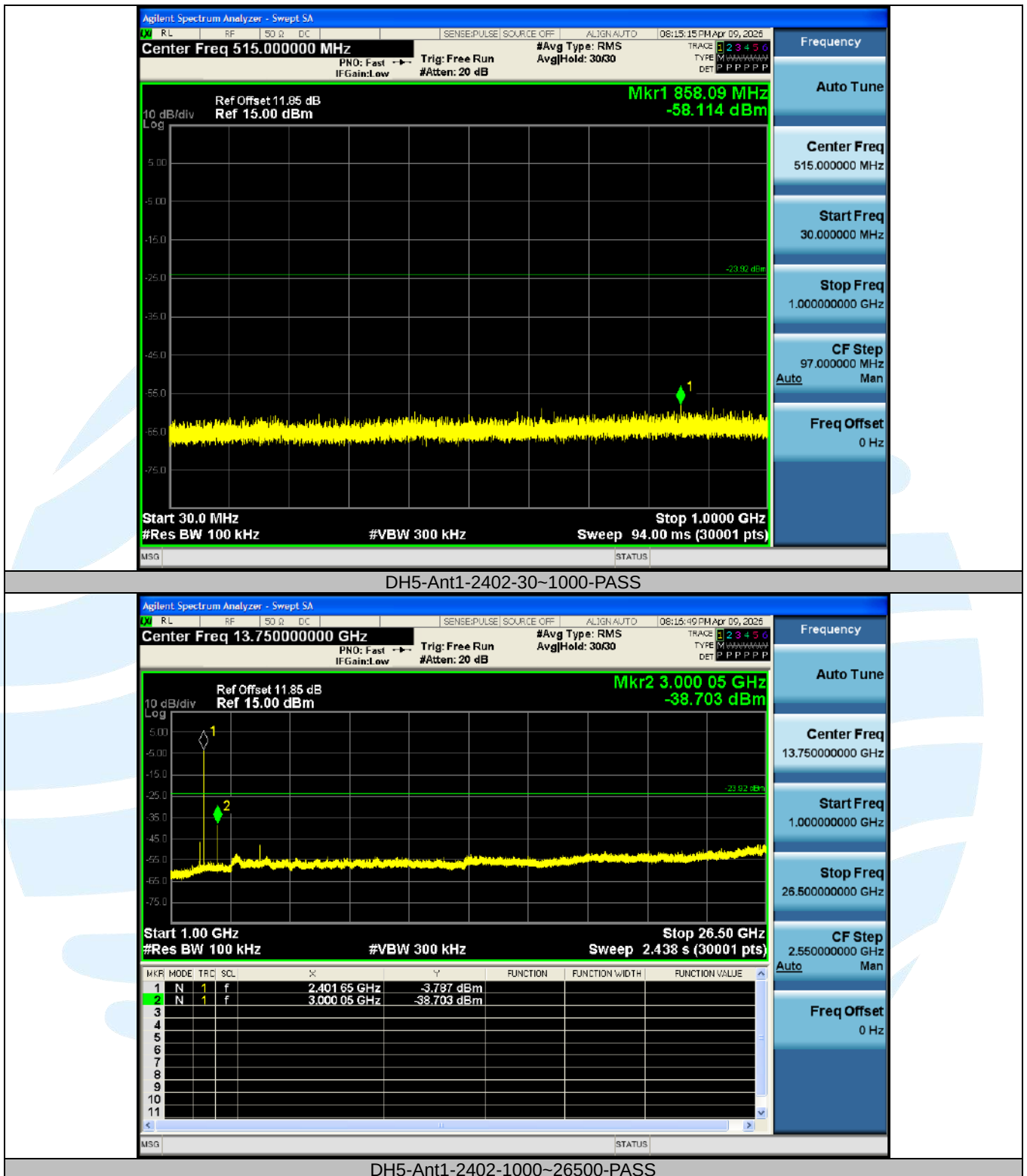
Left earbud

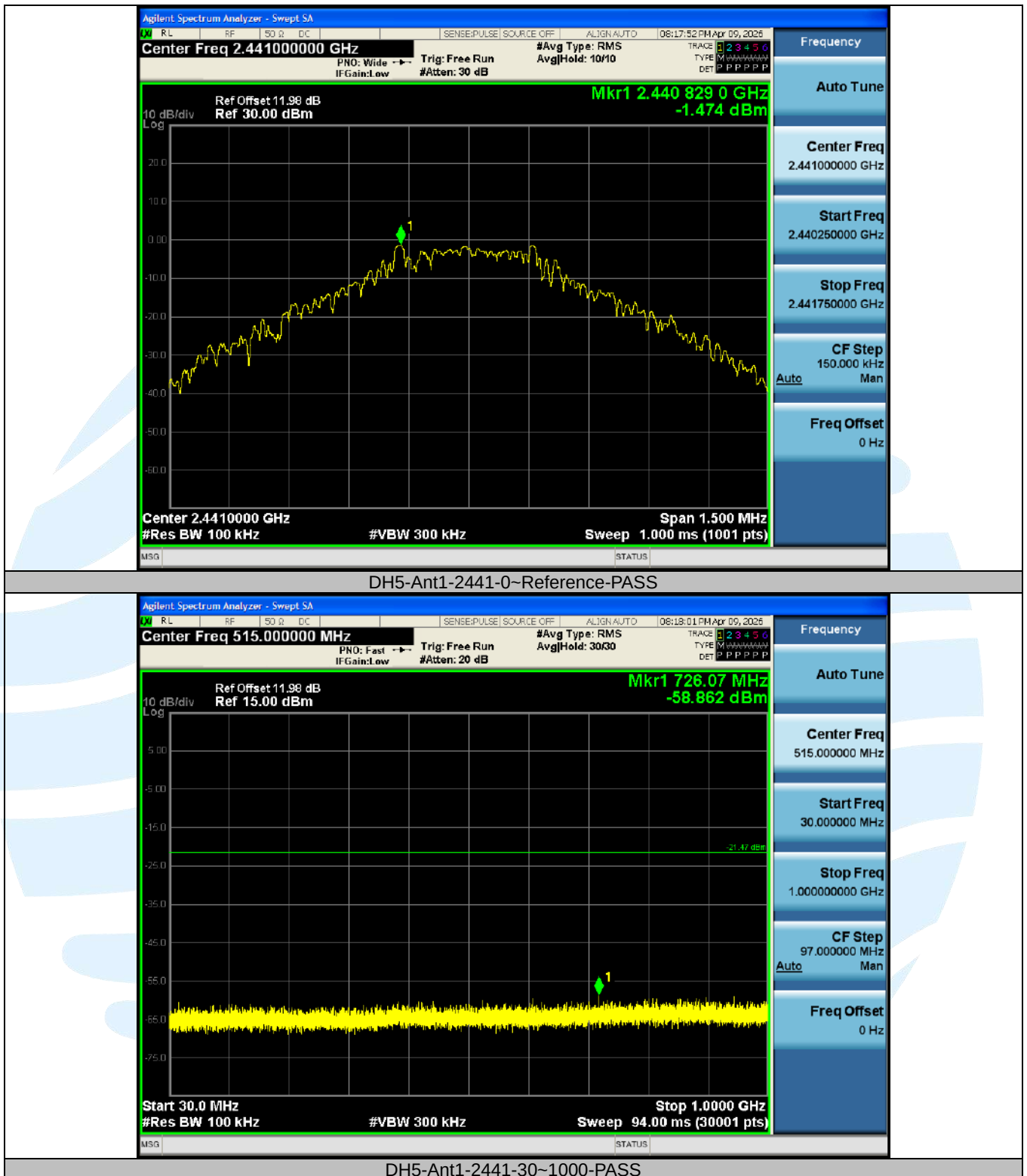
Test Result

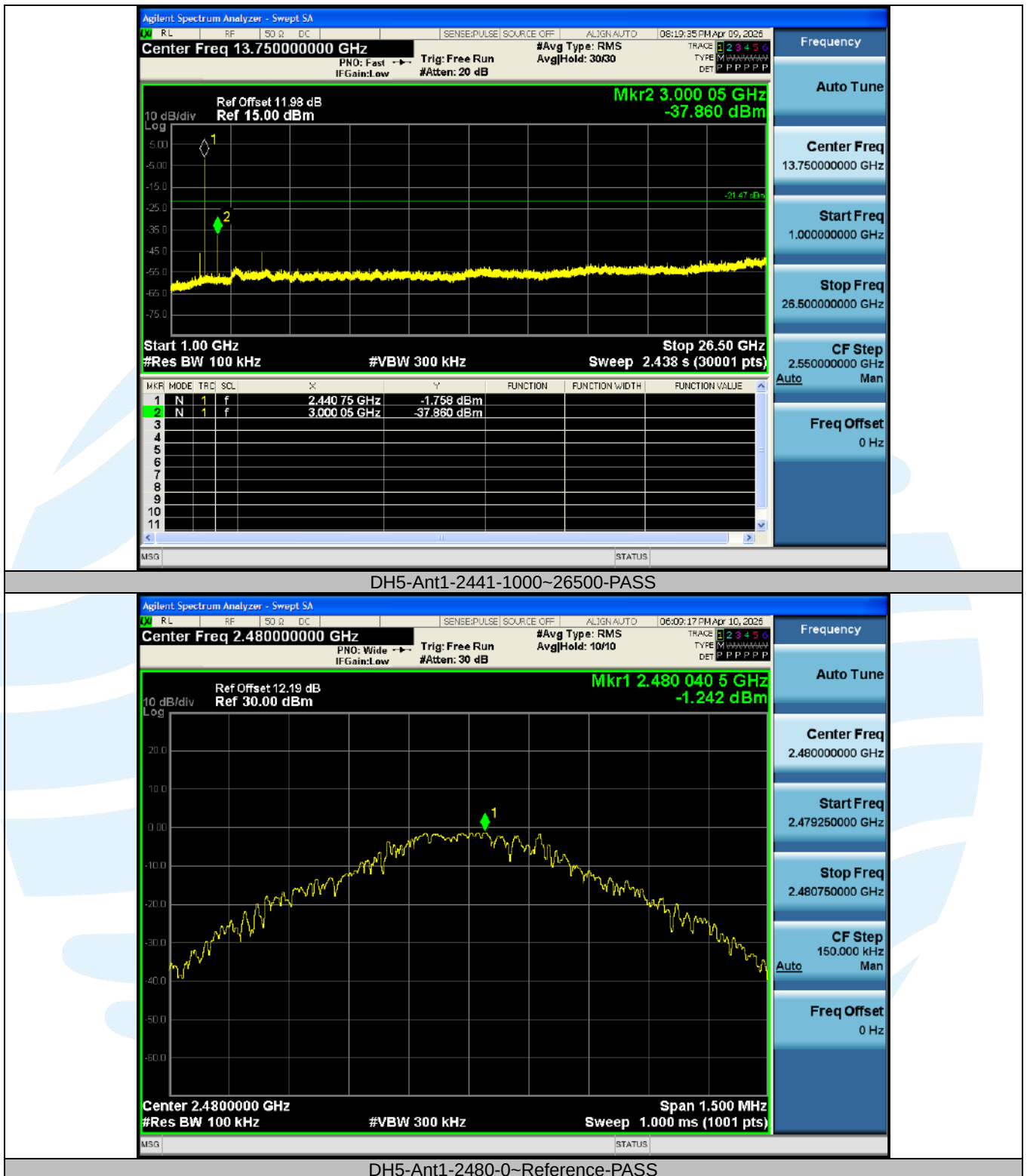
Test Mode	Antenna	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-3.92	-3.92	---	PASS
DH5	Ant1	2402	30~1000	-3.92	-58.11	≤-23.92	PASS
DH5	Ant1	2402	1000~26500	-3.92	-38.7	≤-23.92	PASS
DH5	Ant1	2441	0~Reference	-1.47	-1.47	---	PASS
DH5	Ant1	2441	30~1000	-1.47	-58.86	≤-21.47	PASS
DH5	Ant1	2441	1000~26500	-1.47	-37.86	≤-21.47	PASS
DH5	Ant1	2480	0~Reference	-1.24	-1.24	---	PASS
DH5	Ant1	2480	30~1000	-1.24	-58.47	≤-21.24	PASS
DH5	Ant1	2480	1000~26500	-1.24	-45.29	≤-21.24	PASS
3DH5	Ant1	2402	0~Reference	-7.68	-7.68	---	PASS
3DH5	Ant1	2402	30~1000	-7.68	-58.55	≤-27.68	PASS
3DH5	Ant1	2402	1000~26500	-7.68	-46.96	≤-27.68	PASS
3DH5	Ant1	2441	0~Reference	-5.00	-5.00	---	PASS
3DH5	Ant1	2441	30~1000	-5.00	-58.59	≤-25	PASS
3DH5	Ant1	2441	1000~26500	-5.00	-46.36	≤-25	PASS
3DH5	Ant1	2480	0~Reference	-2.65	-2.65	---	PASS
3DH5	Ant1	2480	30~1000	-2.65	-58.38	≤-22.65	PASS
3DH5	Ant1	2480	1000~26500	-2.65	-45.97	≤-22.65	PASS

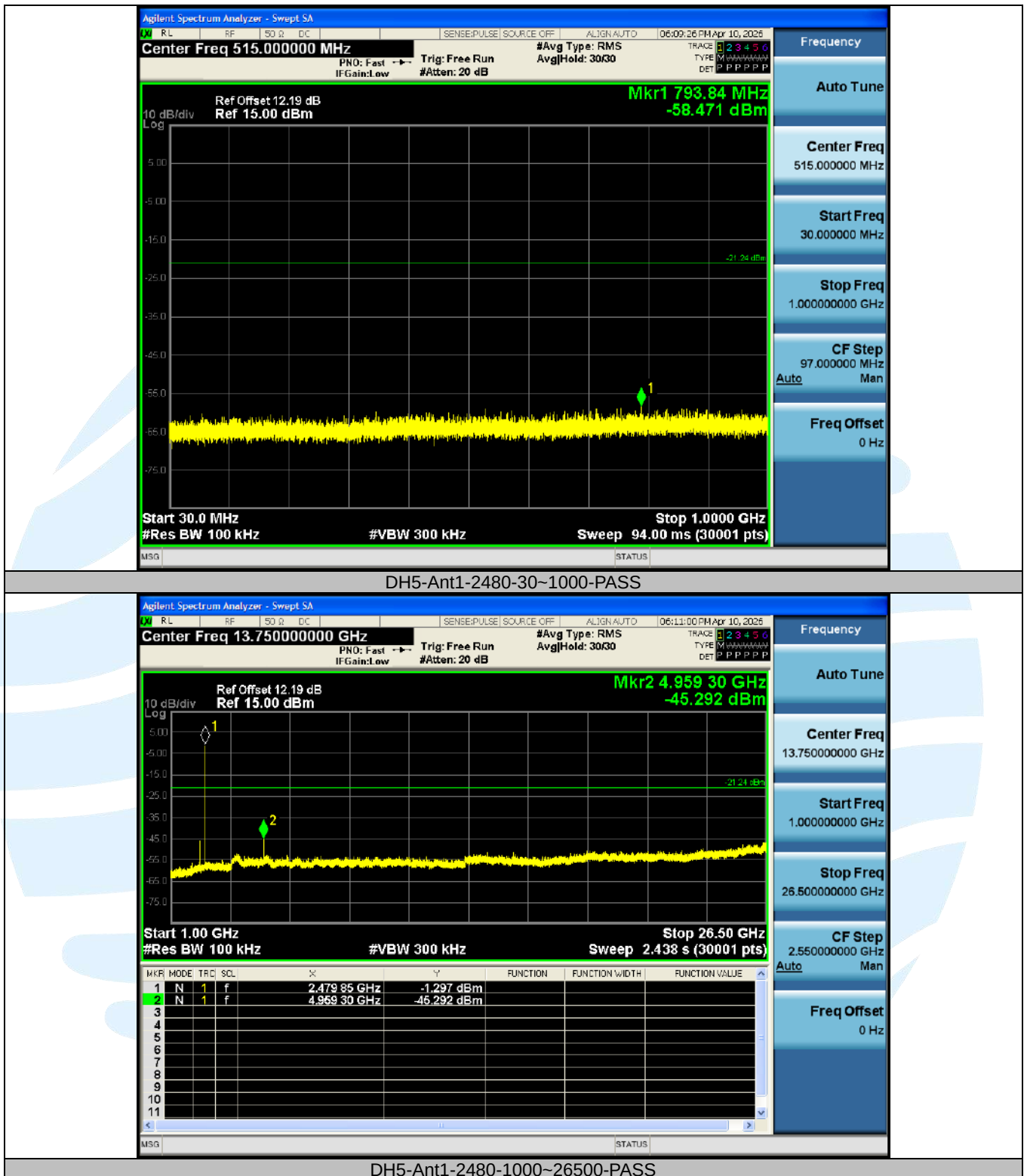
Test Graphs

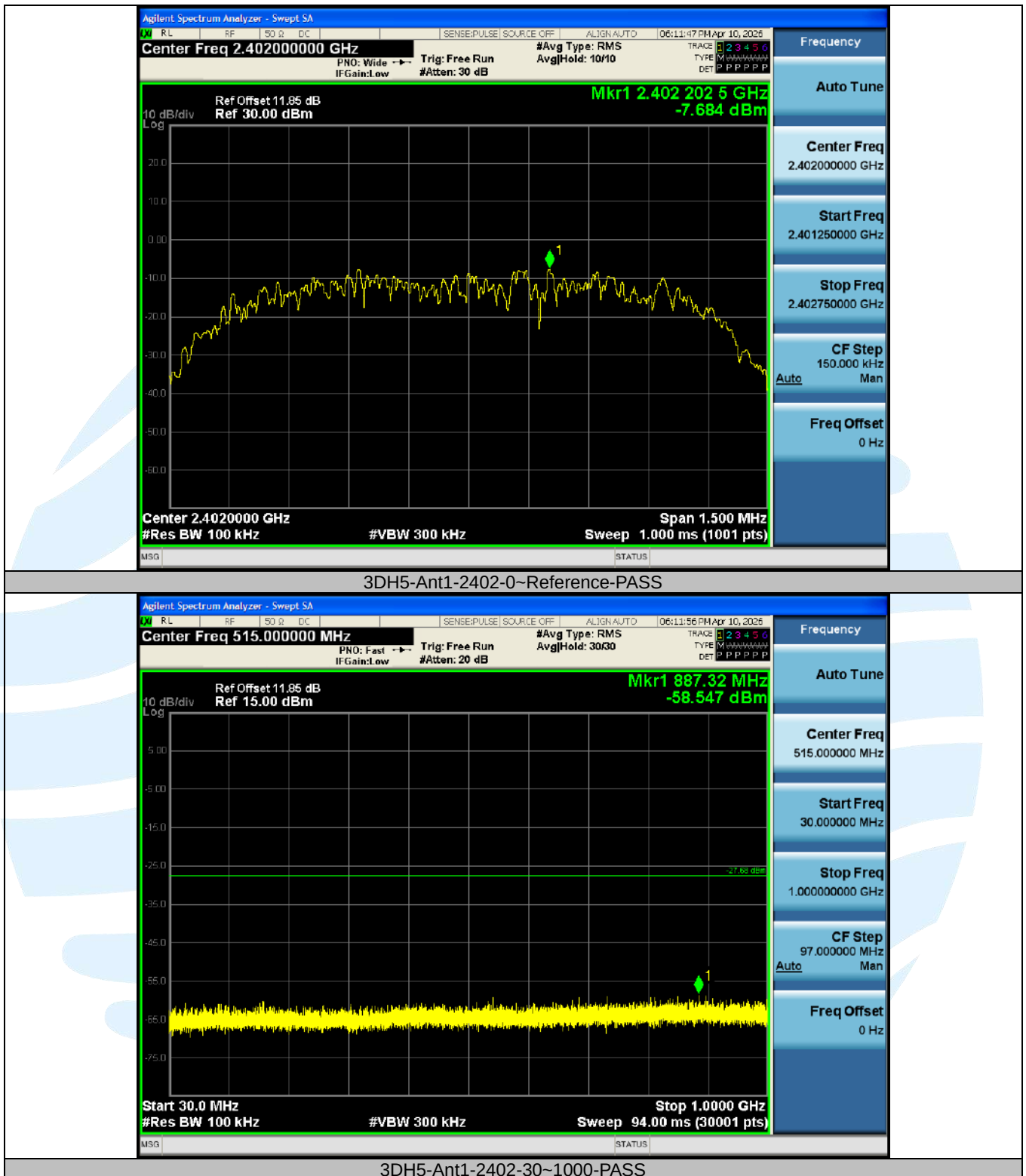


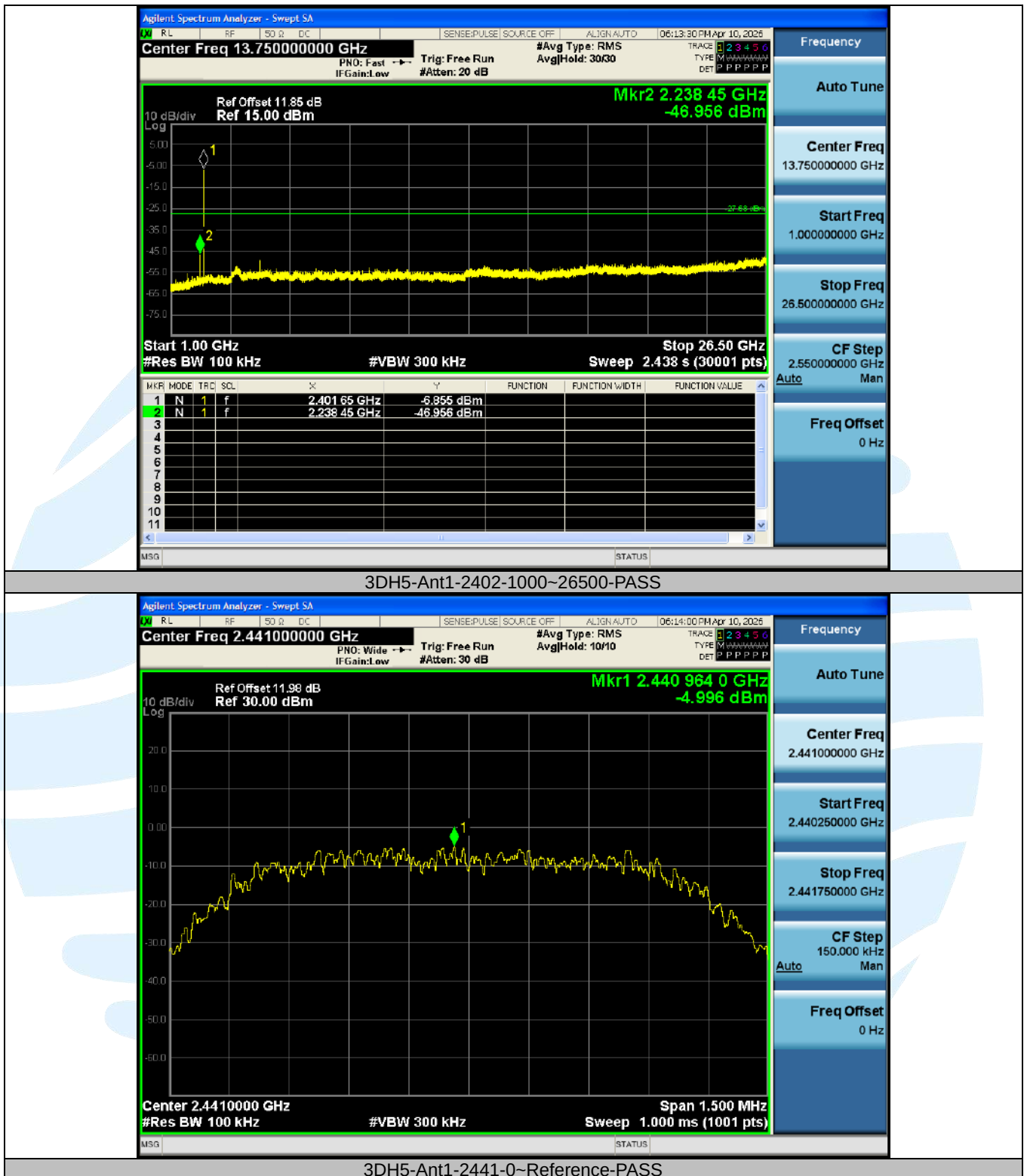


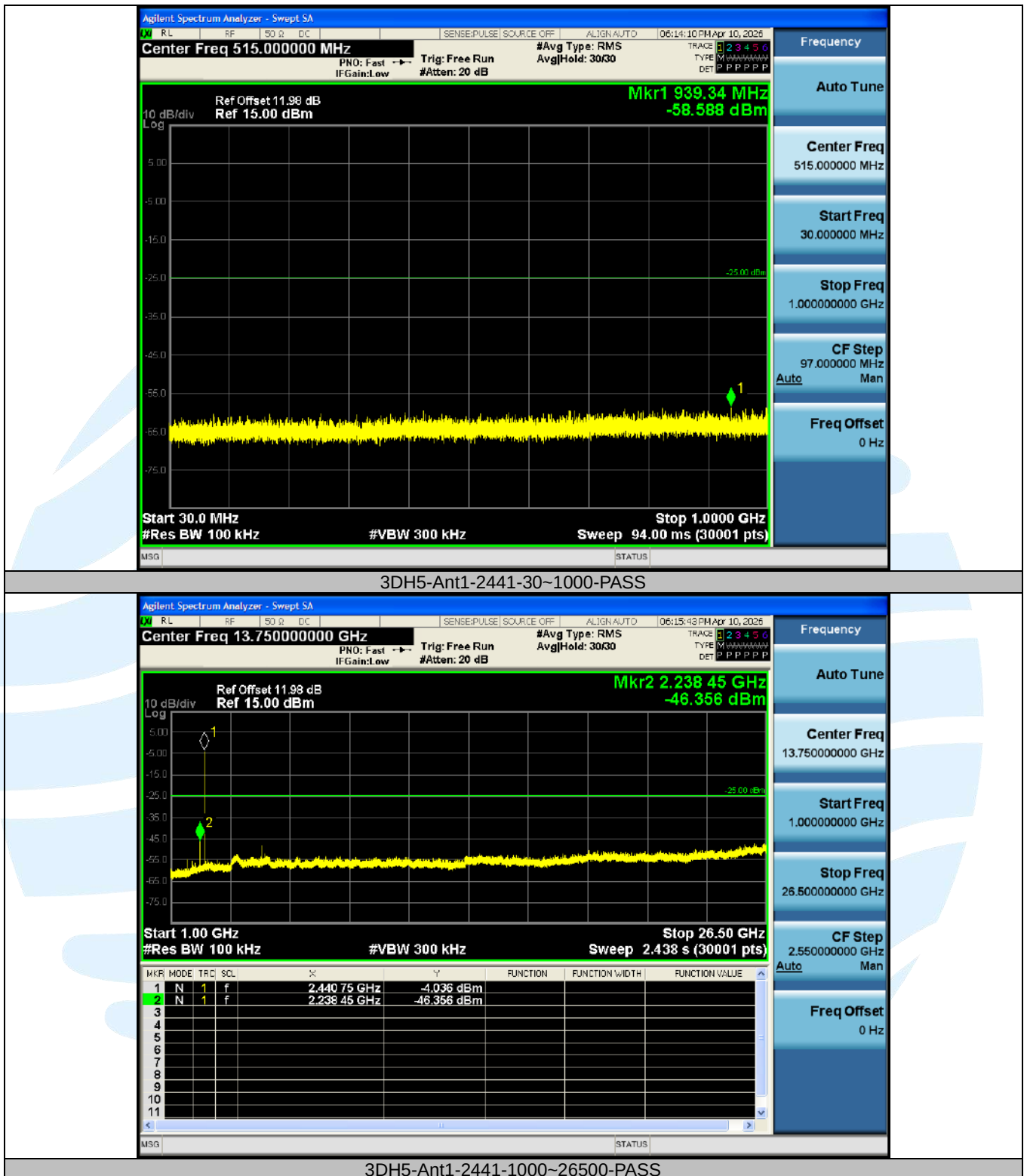


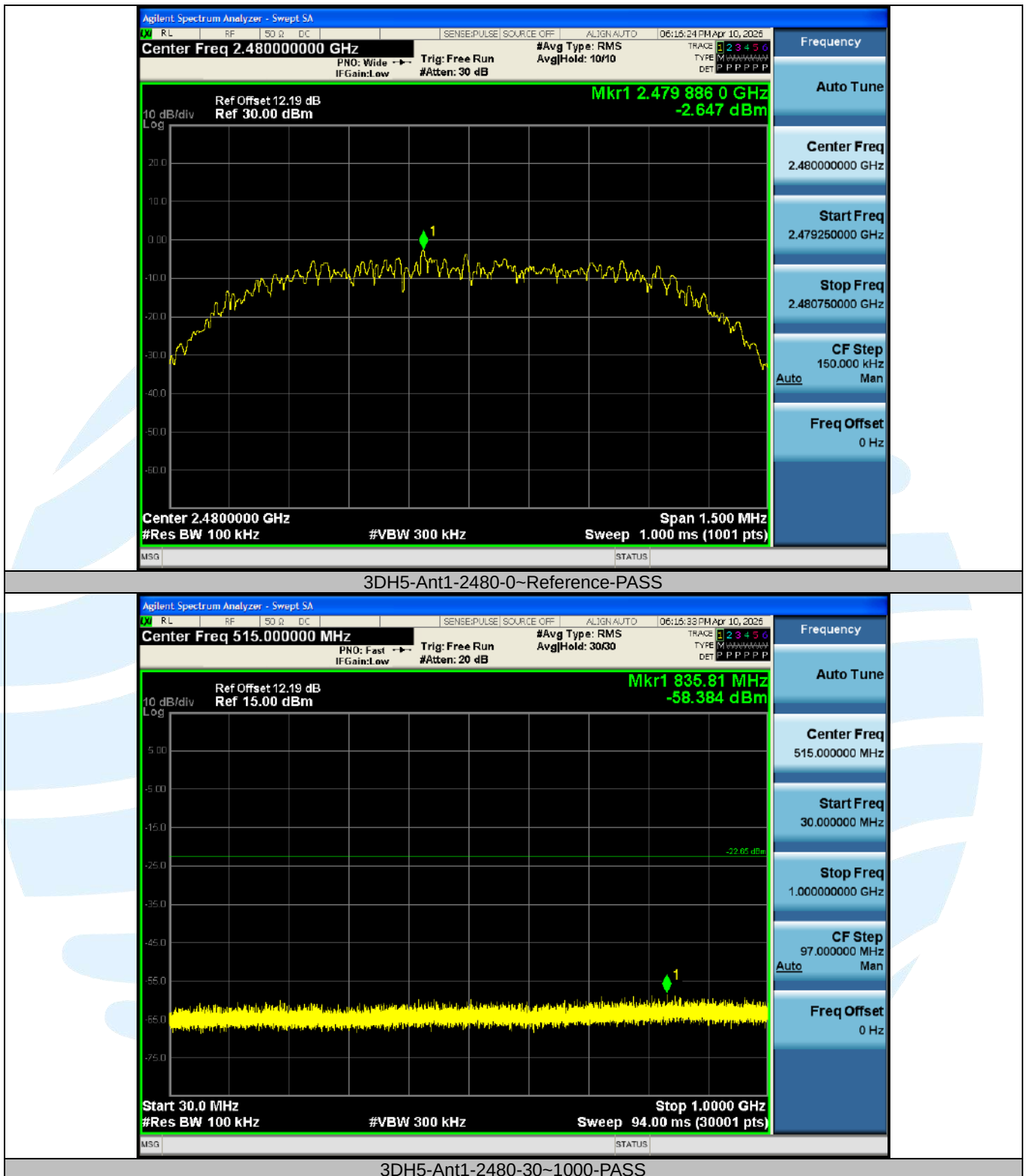


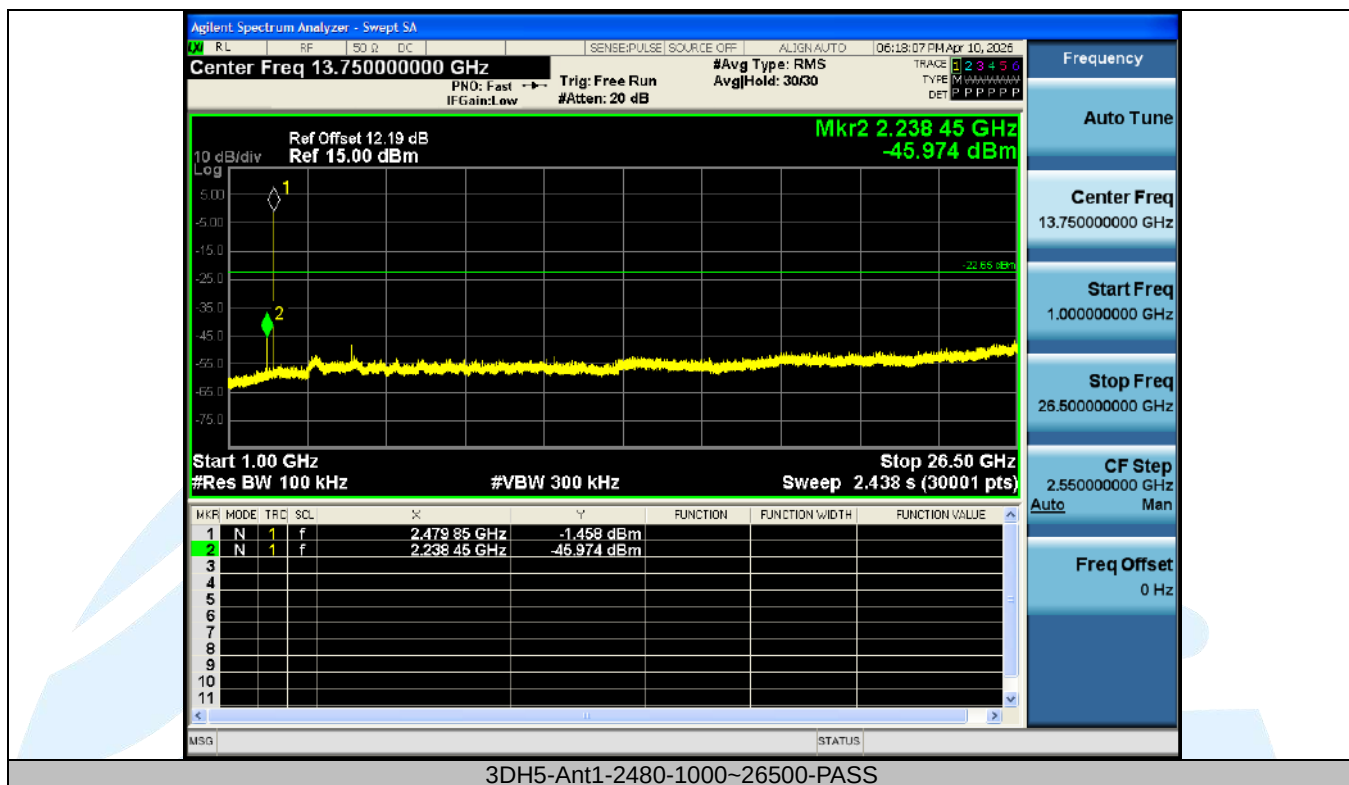












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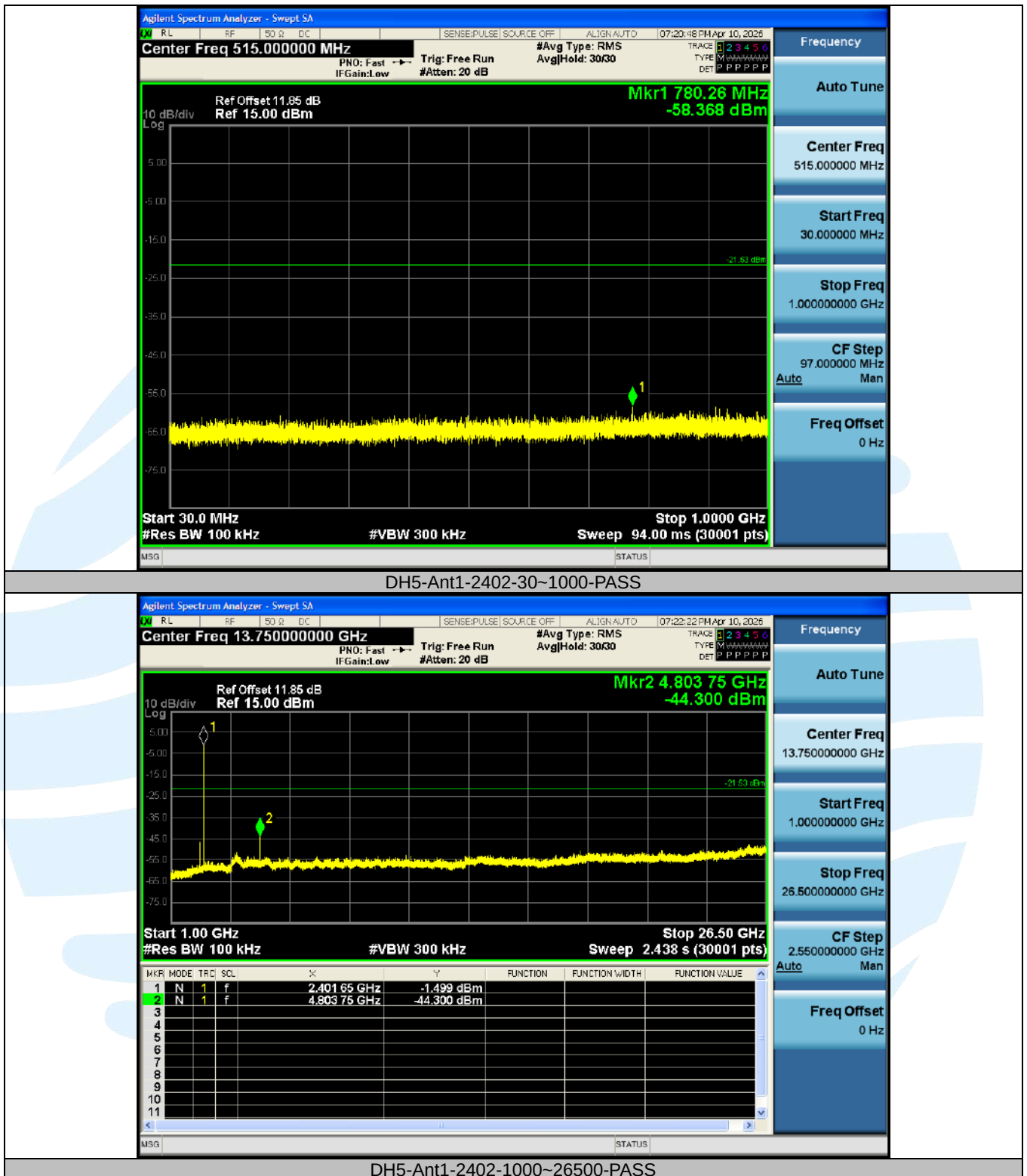
Right earbud

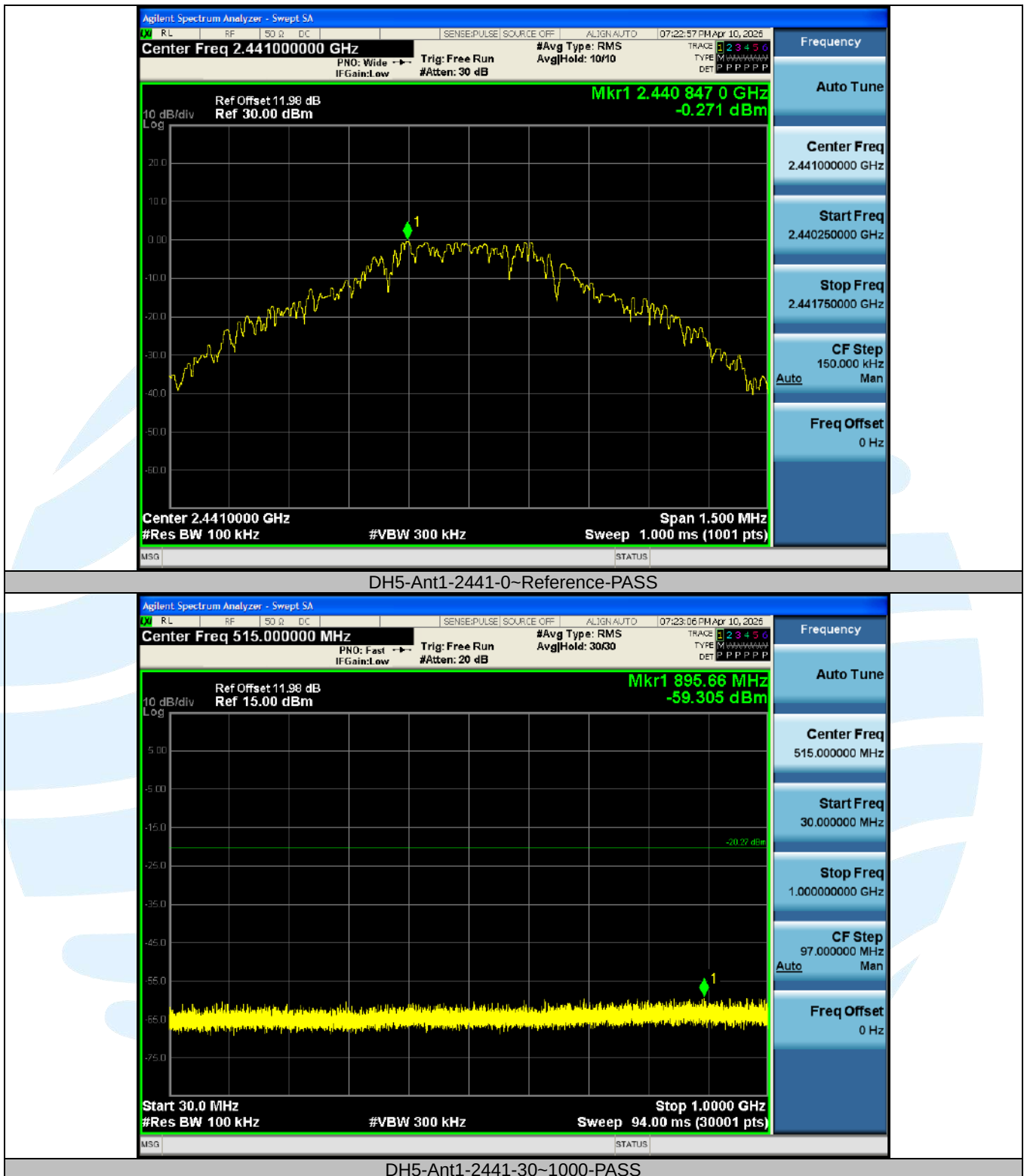
Test Result

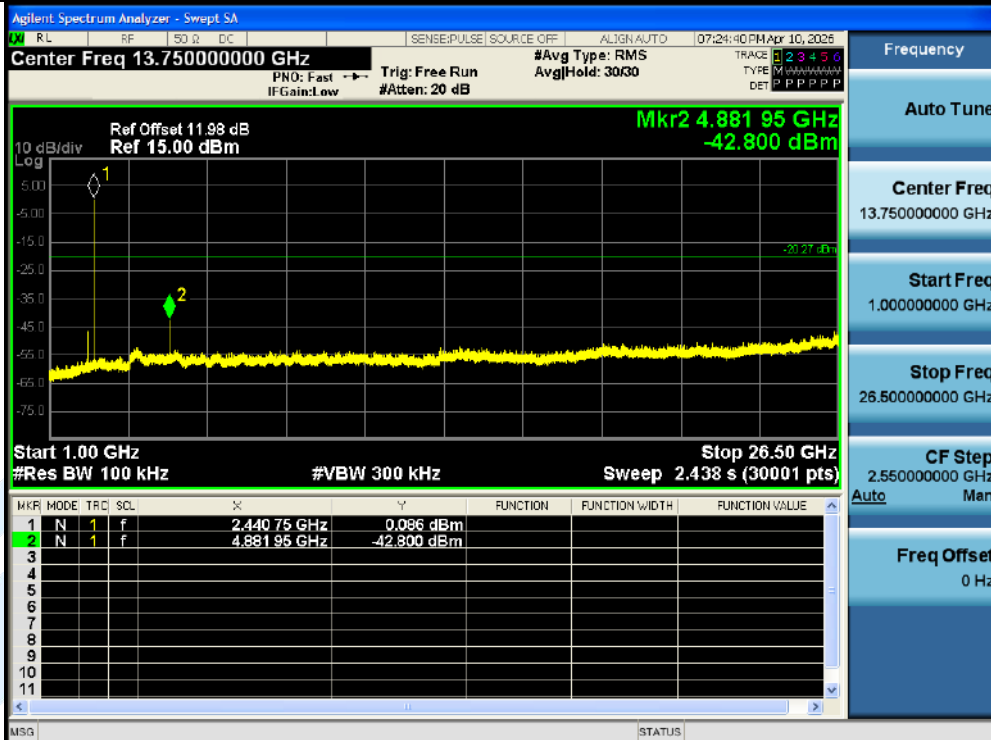
Test Mode	Antenna	Frequency [MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-1.53	-1.53	---	PASS
DH5	Ant1	2402	30~1000	-1.53	-58.37	≤-21.53	PASS
DH5	Ant1	2402	1000~26500	-1.53	-44.3	≤-21.53	PASS
DH5	Ant1	2441	0~Reference	-0.27	-0.27	---	PASS
DH5	Ant1	2441	30~1000	-0.27	-59.31	≤-20.27	PASS
DH5	Ant1	2441	1000~26500	-0.27	-42.8	≤-20.27	PASS
DH5	Ant1	2480	0~Reference	-0.15	-0.15	---	PASS
DH5	Ant1	2480	30~1000	-0.15	-59.06	≤-20.15	PASS
DH5	Ant1	2480	1000~26500	-0.15	-46.47	≤-20.15	PASS
3DH5	Ant1	2402	0~Reference	-3.05	-3.05	---	PASS
3DH5	Ant1	2402	30~1000	-3.05	-59.24	≤-23.05	PASS
3DH5	Ant1	2402	1000~26500	-3.05	-46.38	≤-23.05	PASS
3DH5	Ant1	2441	0~Reference	-2.17	-2.17	---	PASS
3DH5	Ant1	2441	30~1000	-2.17	-58.7	≤-22.17	PASS
3DH5	Ant1	2441	1000~26500	-2.17	-44.98	≤-22.17	PASS
3DH5	Ant1	2480	0~Reference	-1.24	-1.24	---	PASS
3DH5	Ant1	2480	30~1000	-1.24	-57.82	≤-21.24	PASS
3DH5	Ant1	2480	1000~26500	-1.24	-43.13	≤-21.24	PASS

Test Graphs





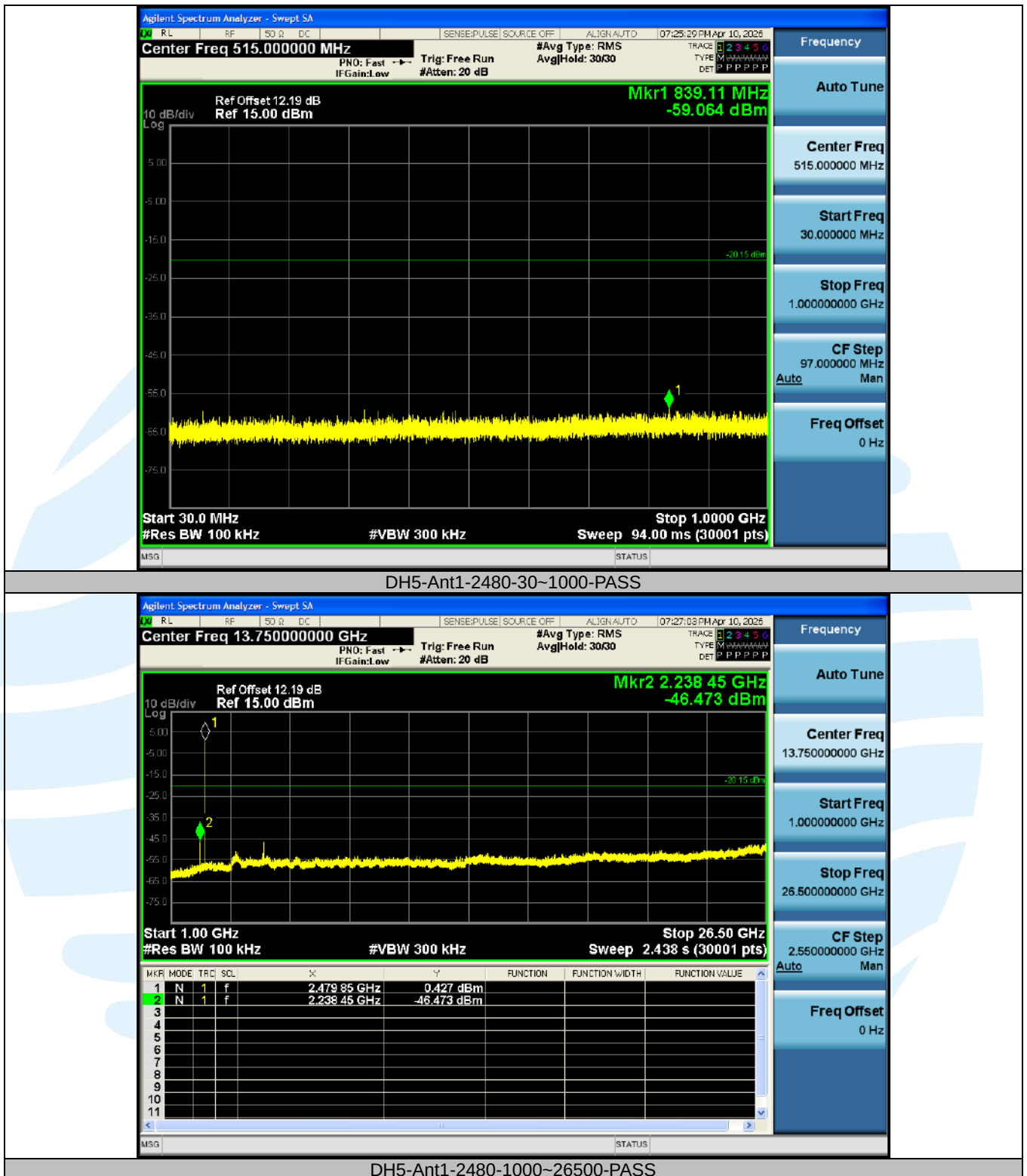


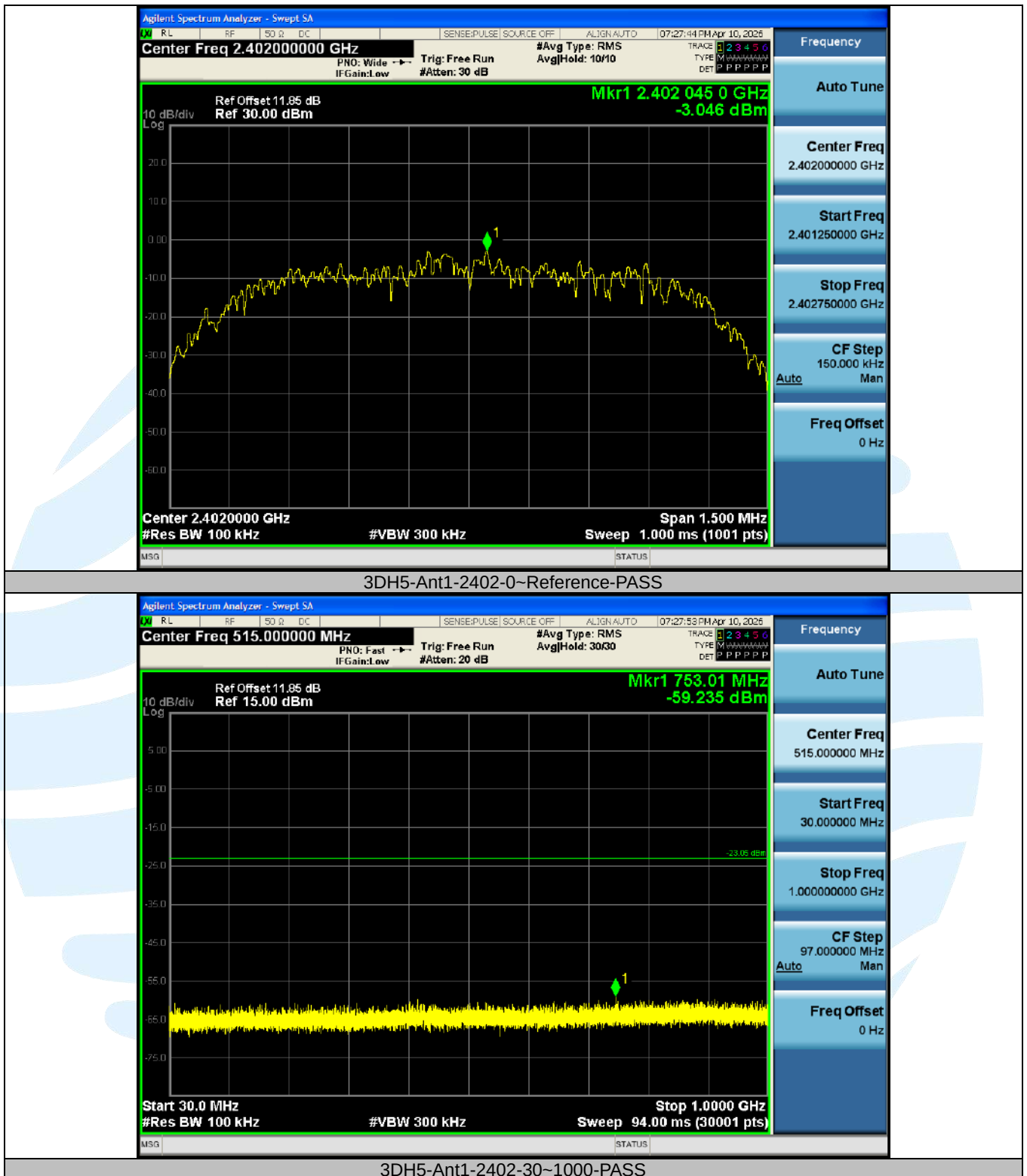


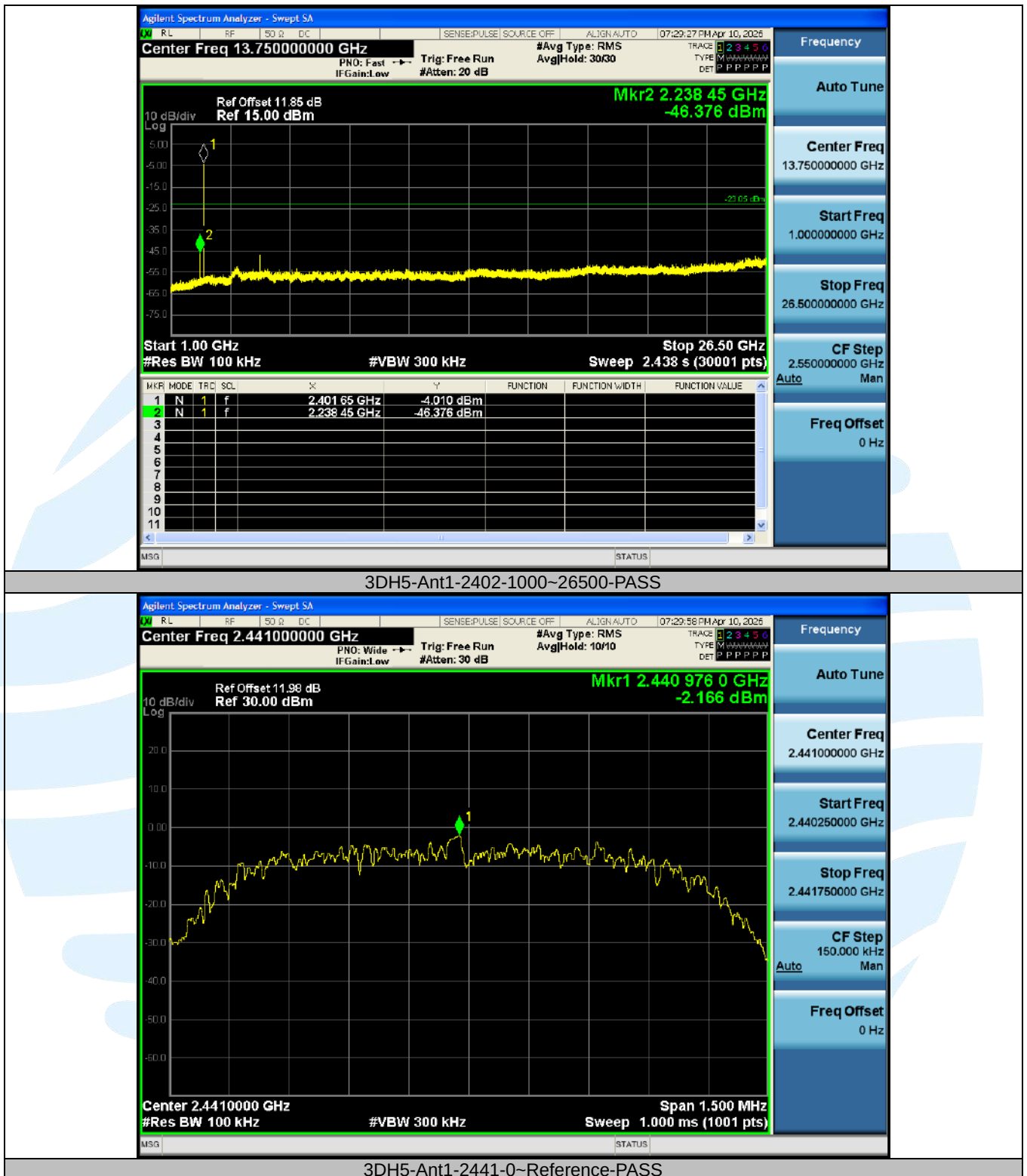
DH5-Ant1-2441-1000~26500-PASS

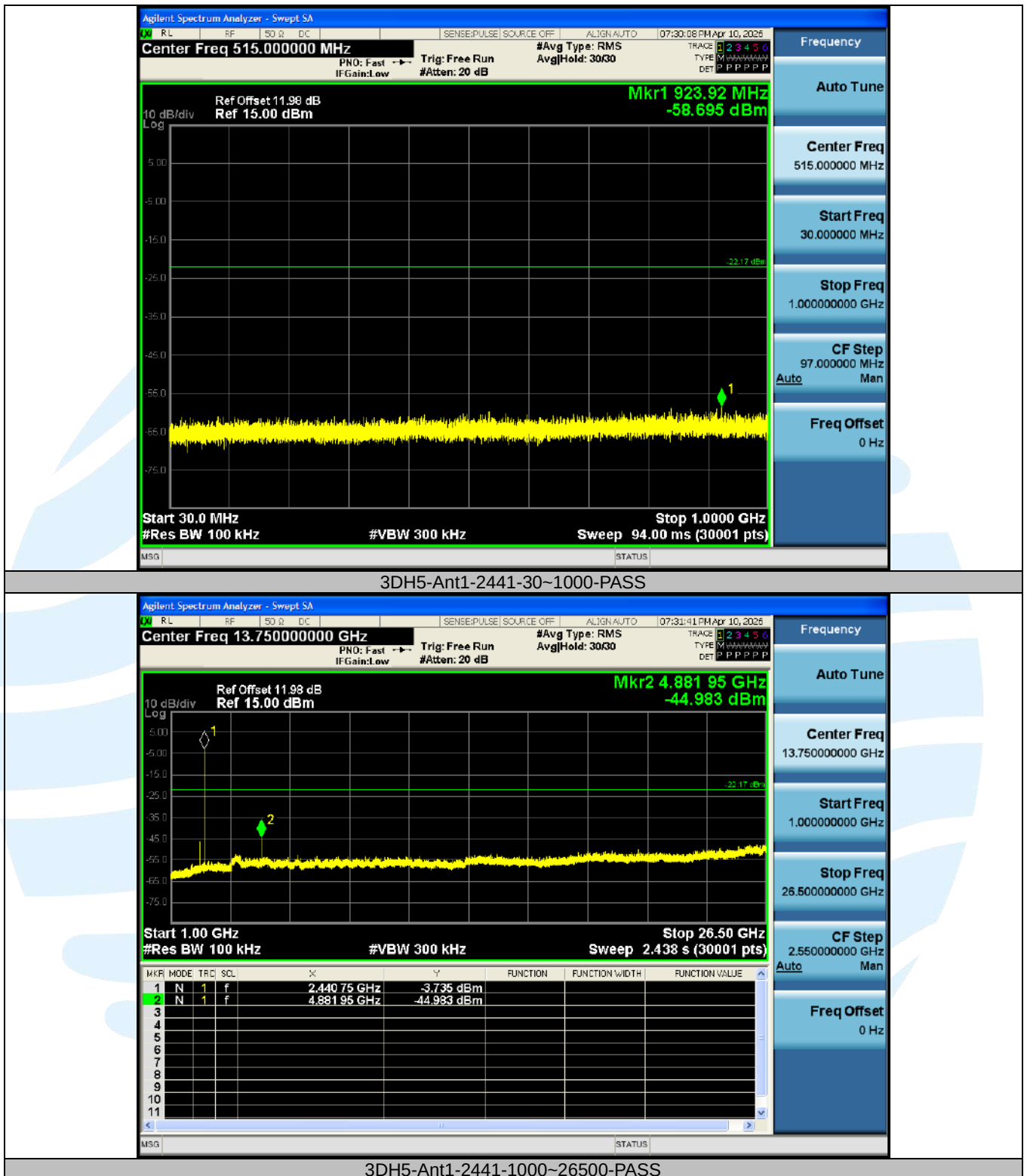


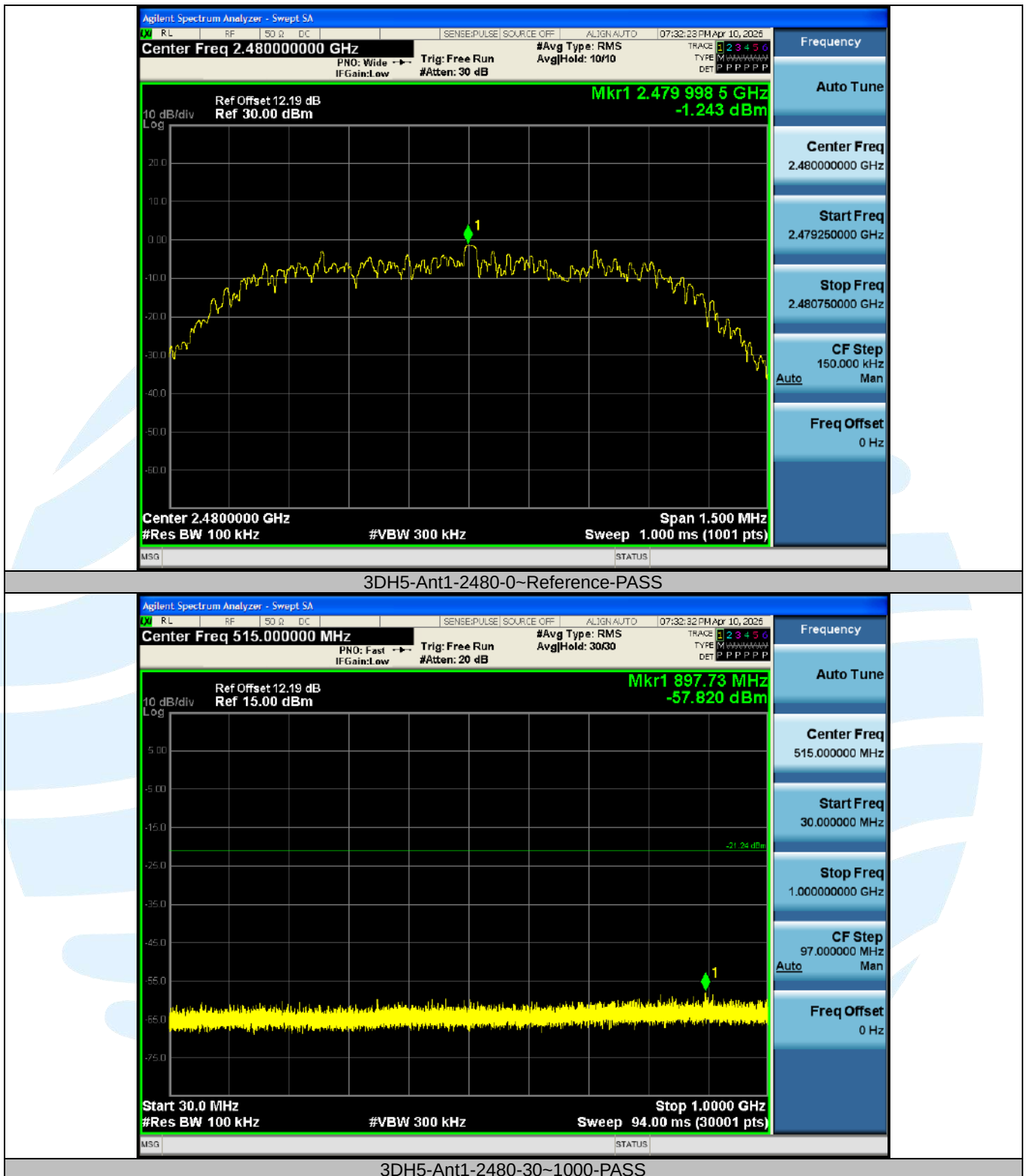
DH5-Ant1-2480-0~Reference-PASS









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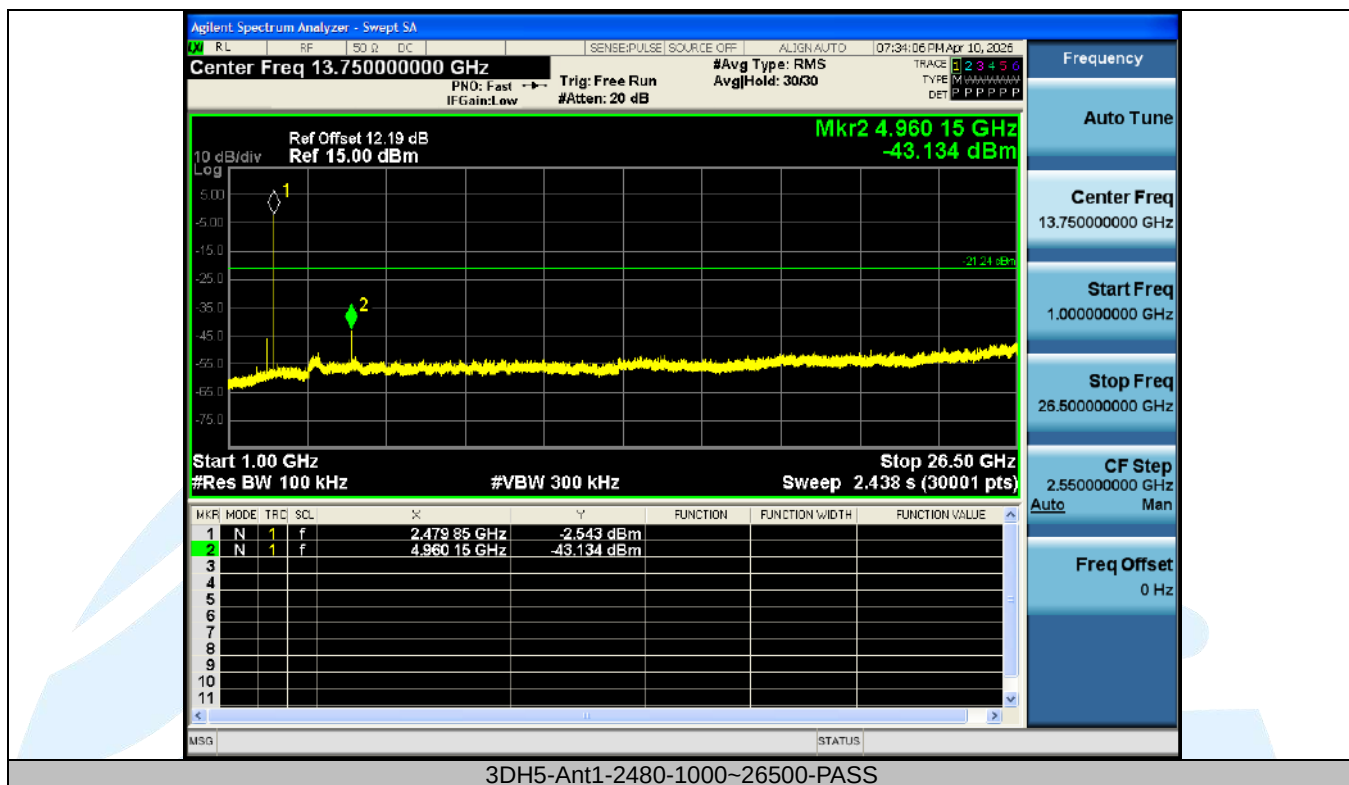
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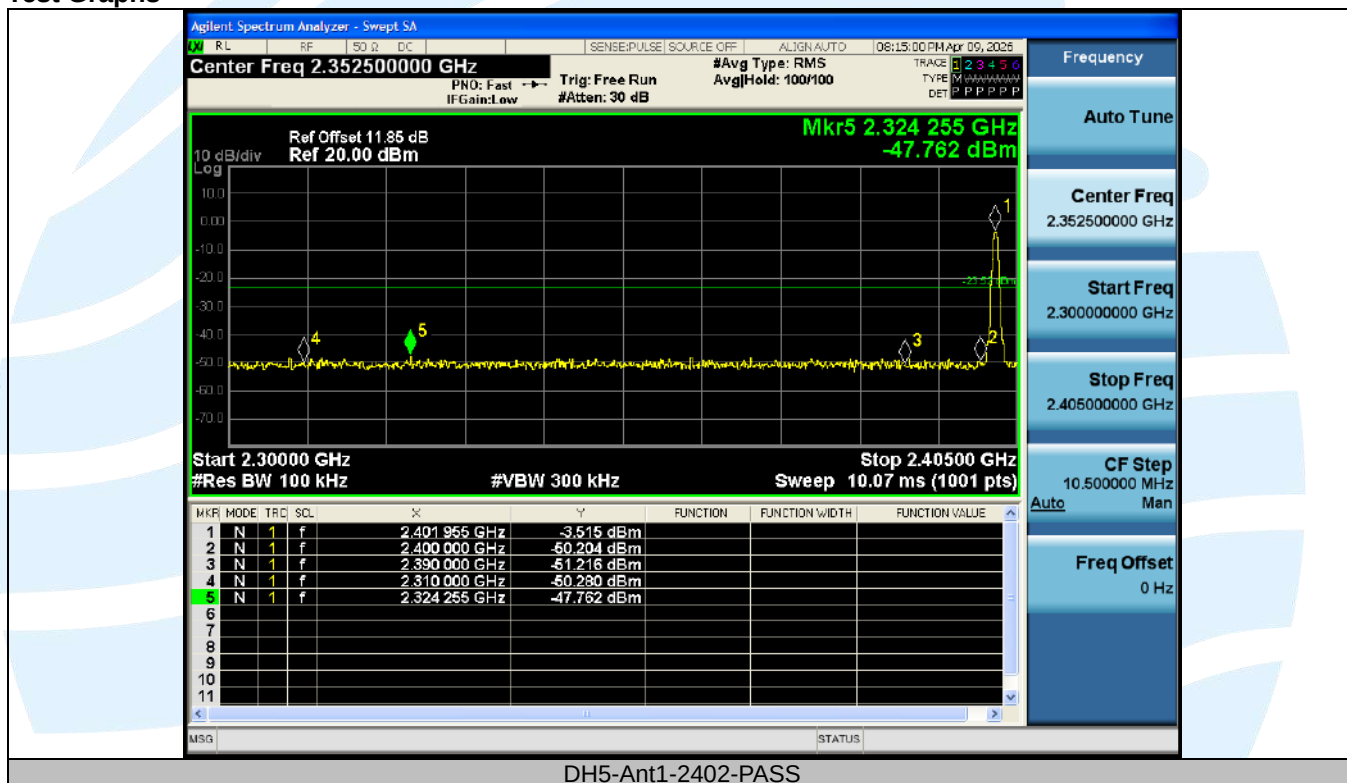
A.6 BAND EDGE MEASUREMENTS

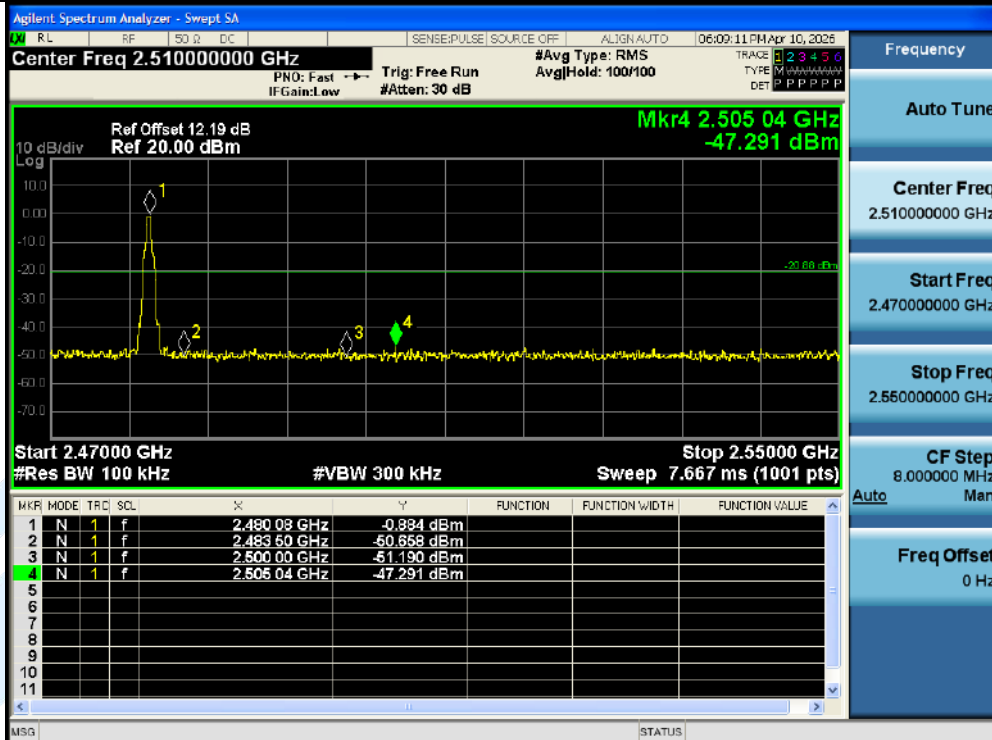
Left earbud

Test Result

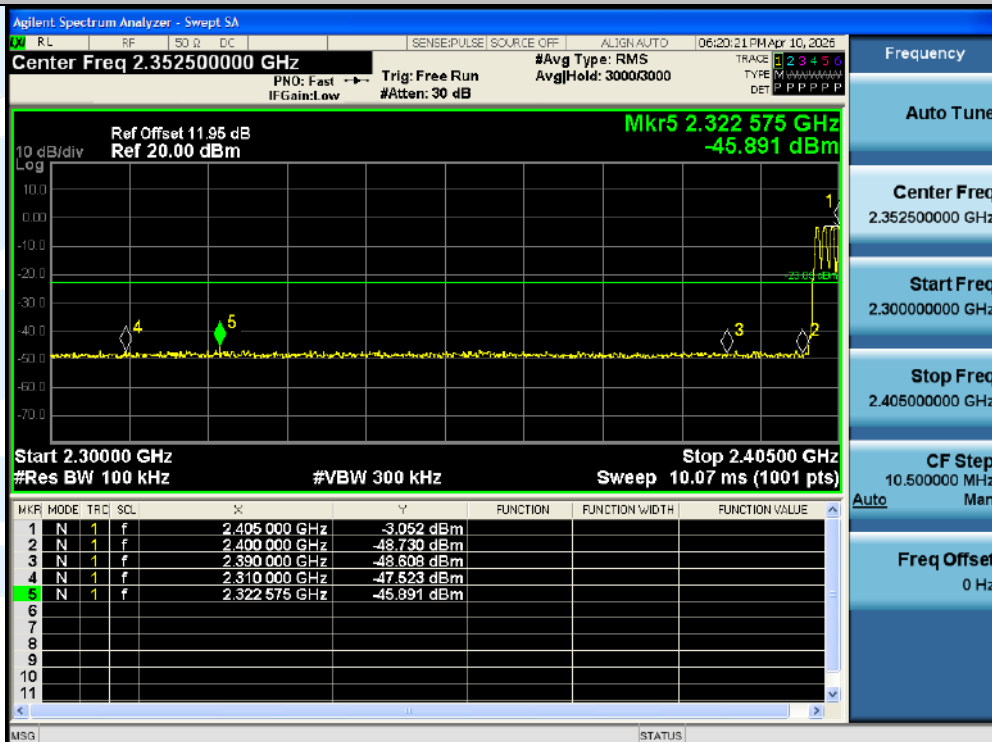
Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-3.52	-47.76	≤-23.52	PASS
DH5	Ant1	High	2480	-0.88	-47.29	≤-20.88	PASS
DH5	Ant1	Low	Hop_2402	-3.05	-45.89	≤-23.05	PASS
DH5	Ant1	High	Hop_2480	-0.60	-46.21	≤-20.6	PASS
3DH5	Ant1	Low	2402	-3.13	-47.52	≤-23.13	PASS
3DH5	Ant1	High	2480	-1.68	-31.2	≤-21.68	PASS
3DH5	Ant1	Low	Hop_2402	-2.87	-46.54	≤-22.87	PASS
3DH5	Ant1	High	Hop_2480	-0.59	-38.71	≤-20.59	PASS

Test Graphs

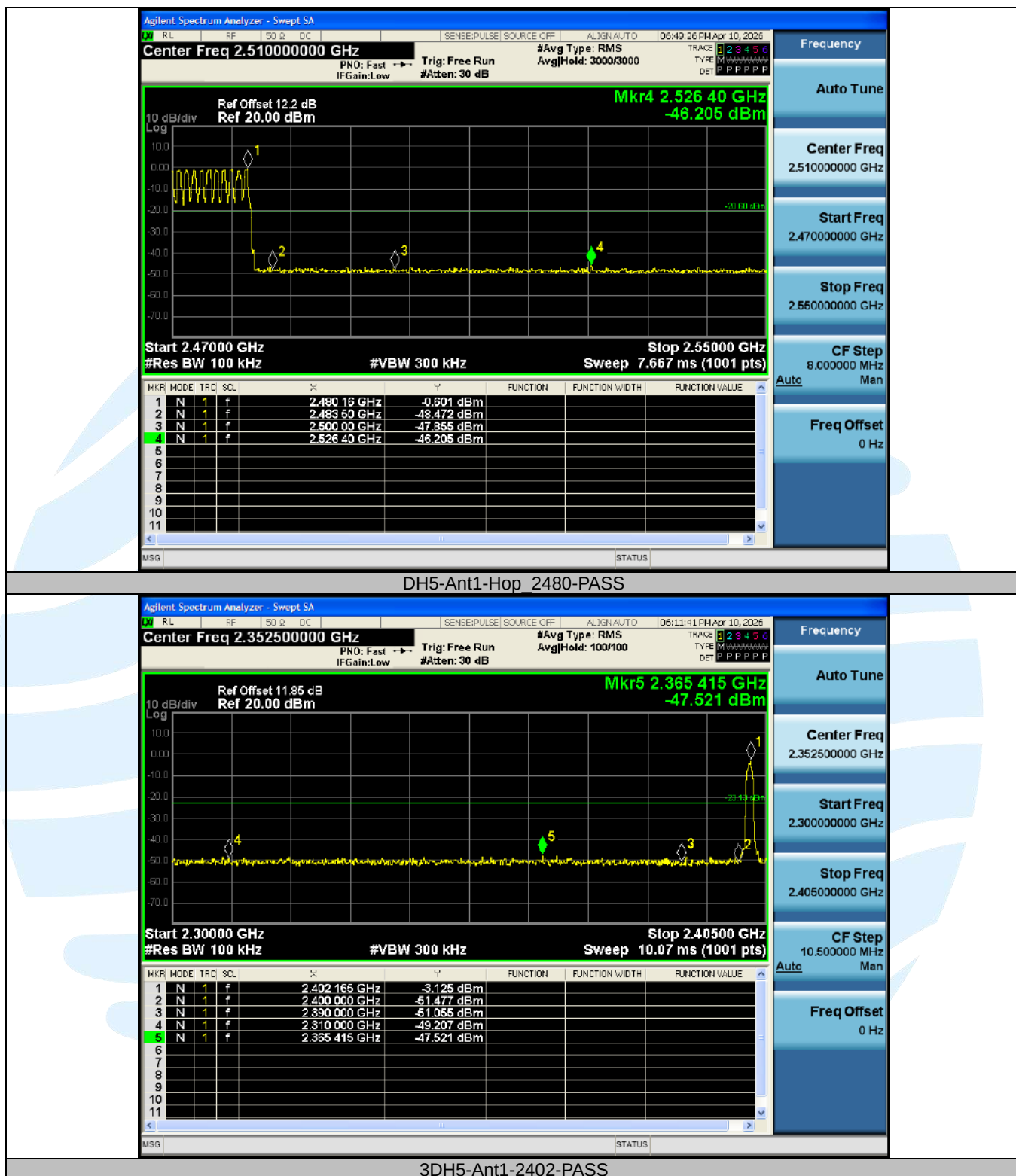


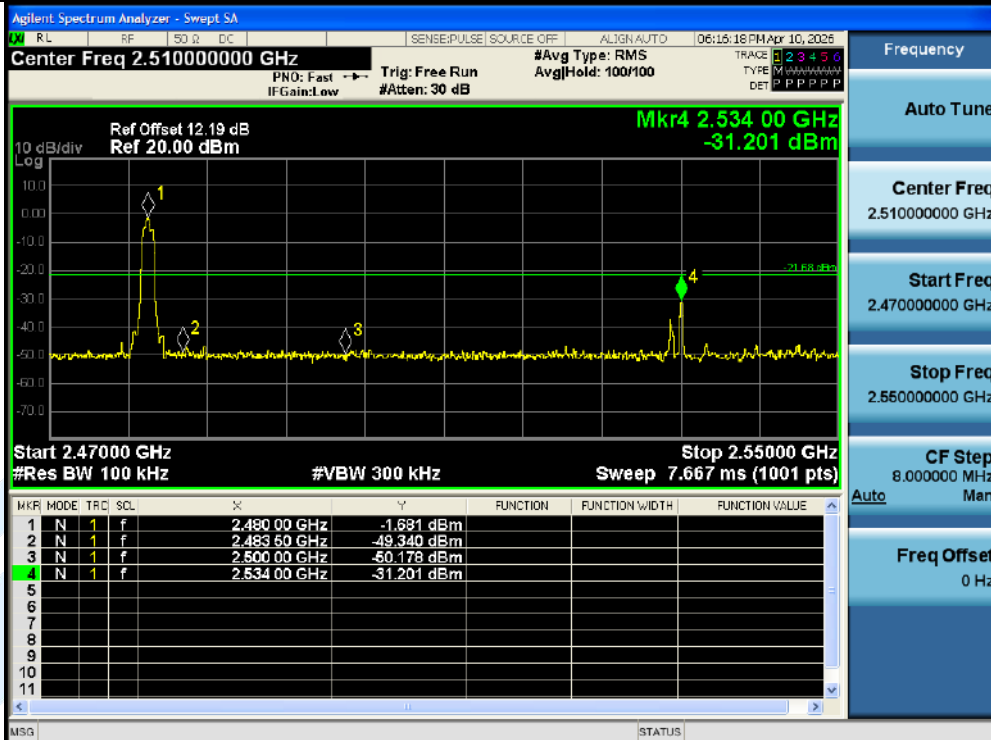


DH5-Ant1-2480-PASS

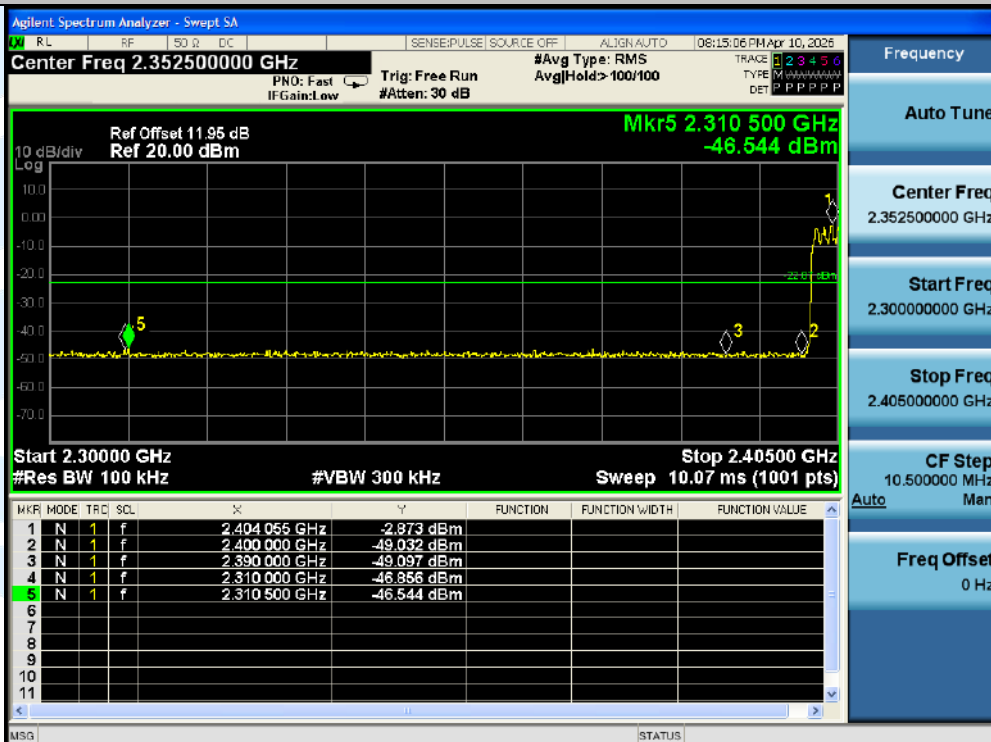


DH5-Ant1-Hop_2402-PASS

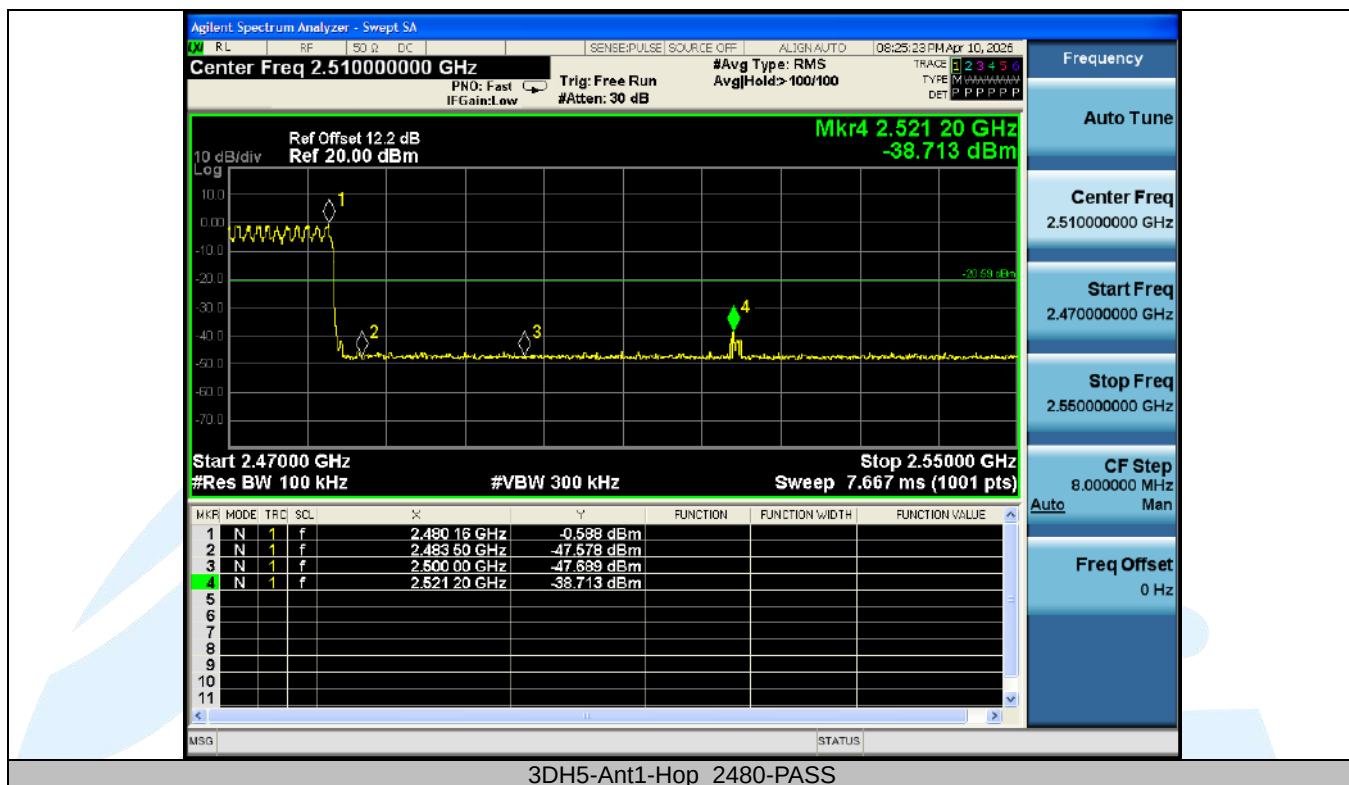




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



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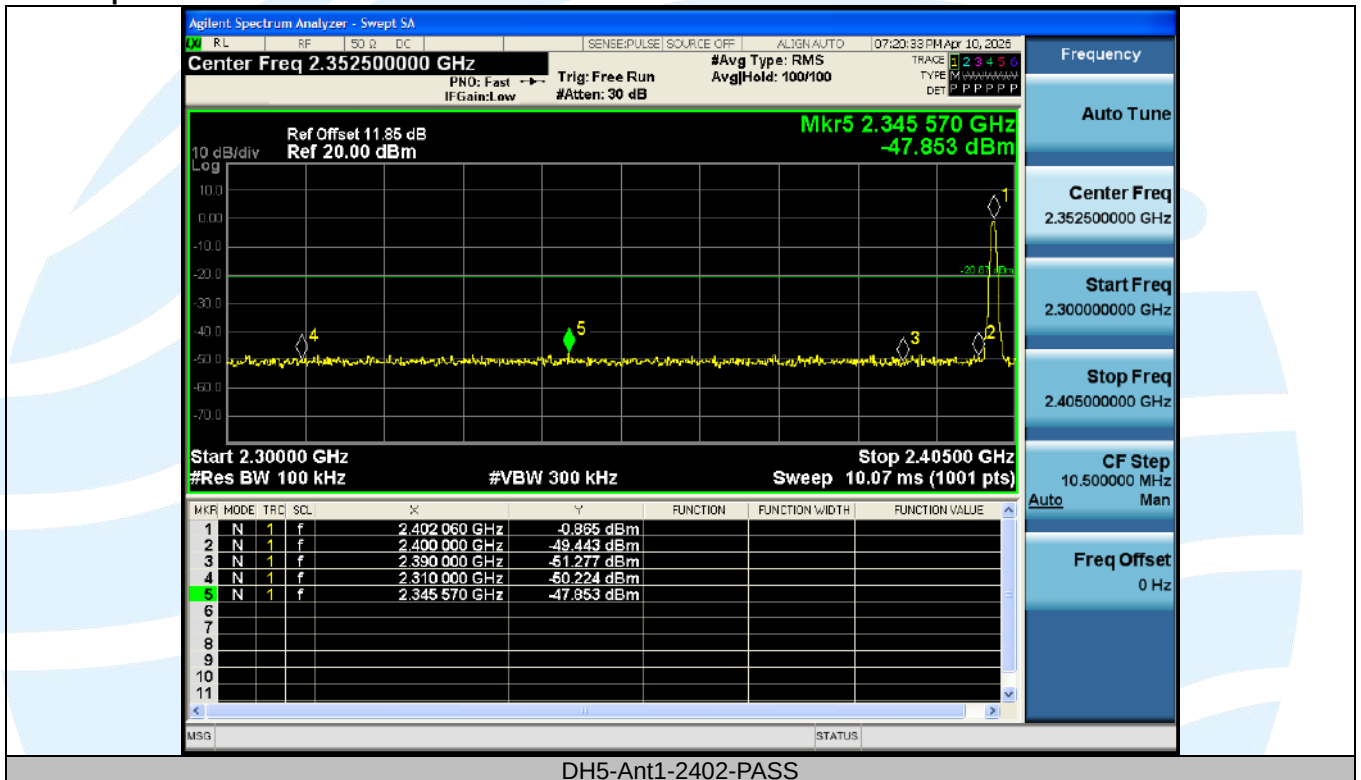
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Right earbud

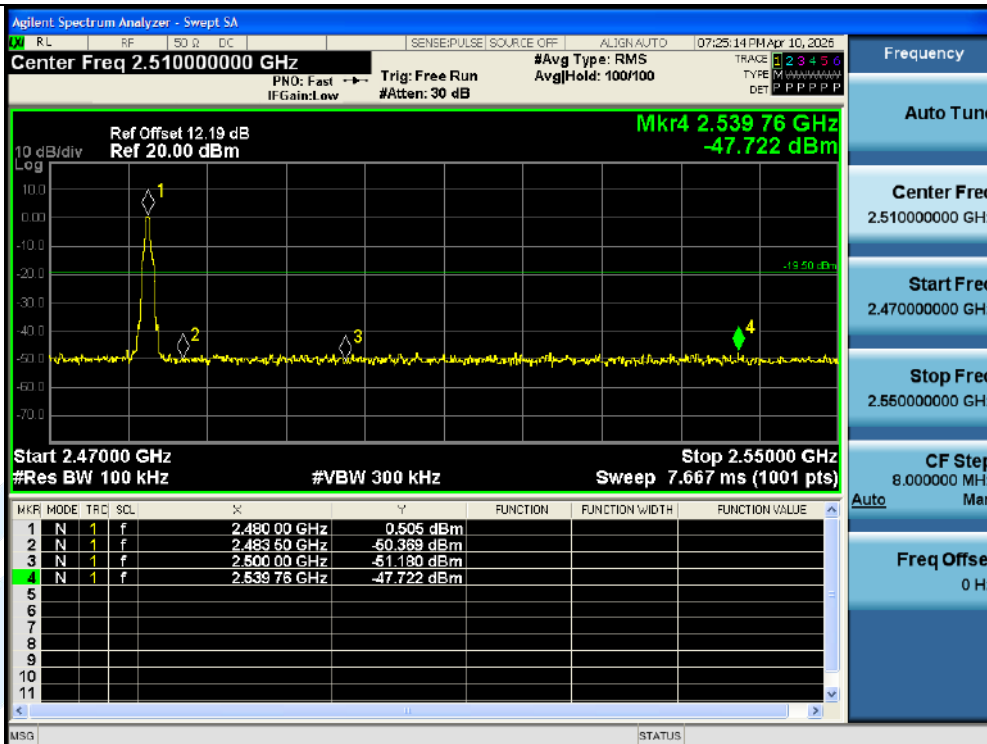
Test Result

Test Mode	Antenna	Ch Name	Frequency [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.87	-47.85	≤-20.87	PASS
DH5	Ant1	High	2480	0.51	-47.72	≤-19.5	PASS
DH5	Ant1	Low	Hop_2402	-0.75	-46.77	≤-20.75	PASS
DH5	Ant1	High	Hop_2480	0.82	-46.33	≤-19.18	PASS
3DH5	Ant1	Low	2402	-2.40	-47.12	≤-22.4	PASS
3DH5	Ant1	High	2480	0.20	-46.9	≤-19.8	PASS
3DH5	Ant1	Low	Hop_2402	-1.10	-37.84	≤-21.1	PASS
3DH5	Ant1	High	Hop_2480	0.69	-45.38	≤-19.31	PASS

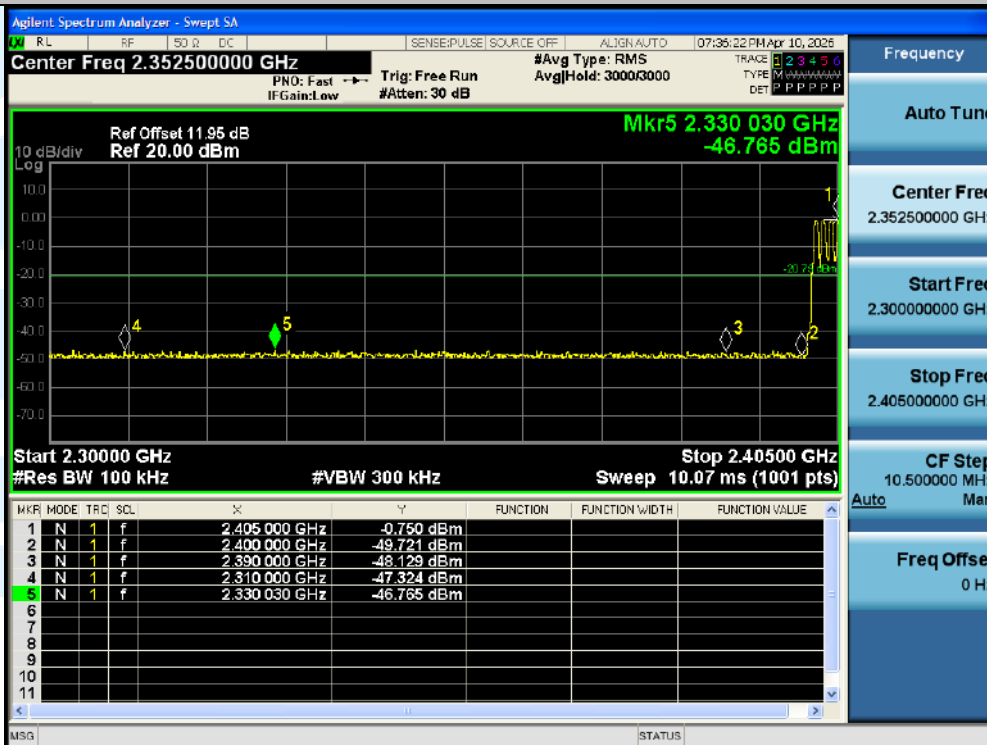
Test Graphs



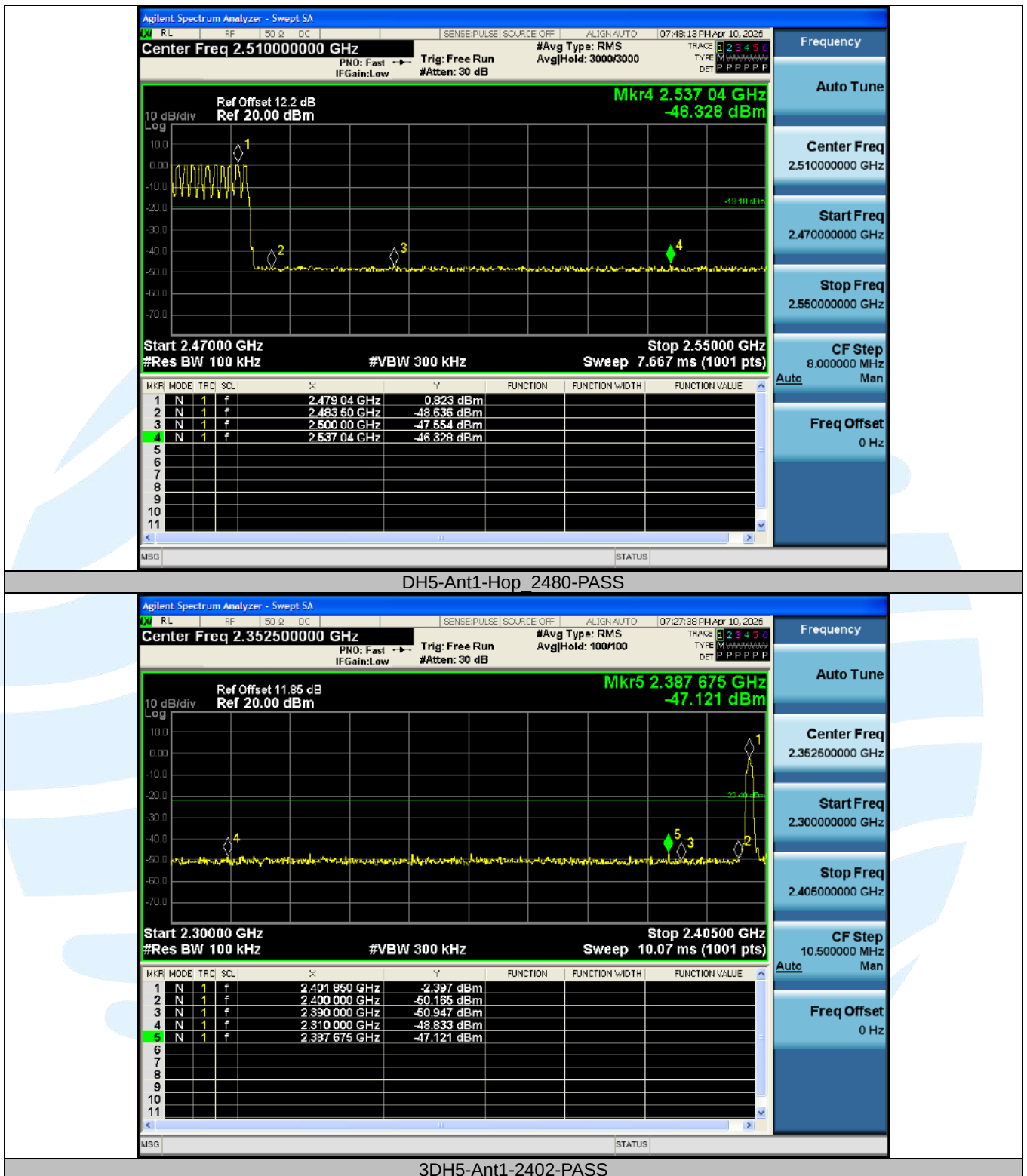
DH5-Ant1-2402-PASS

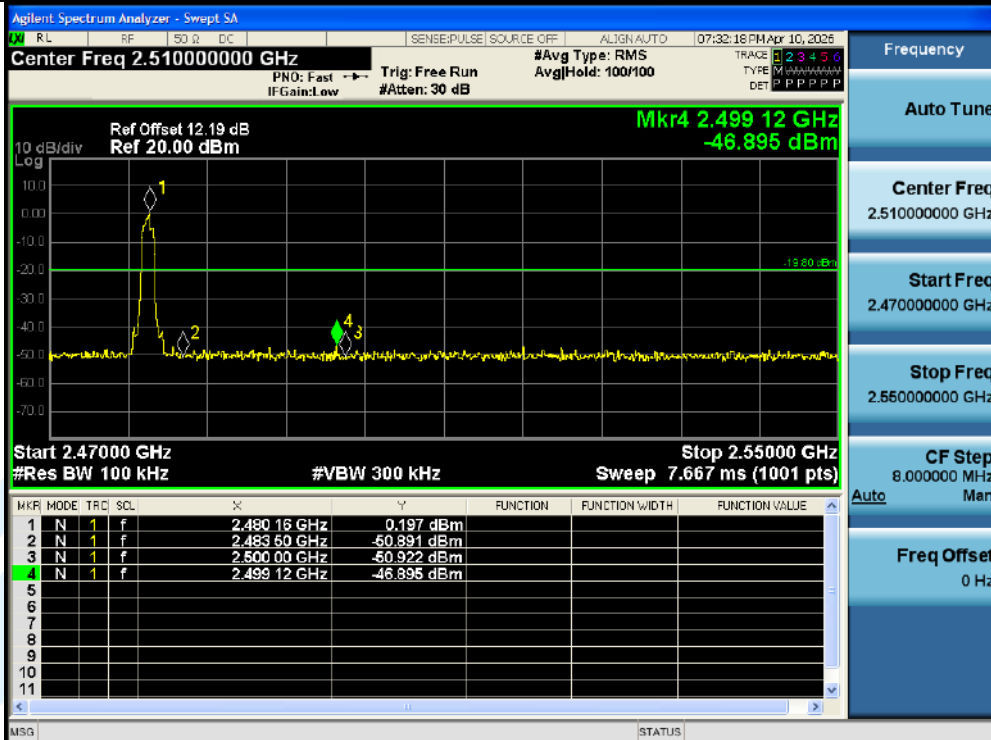


DH5-Ant1-2480-PASS

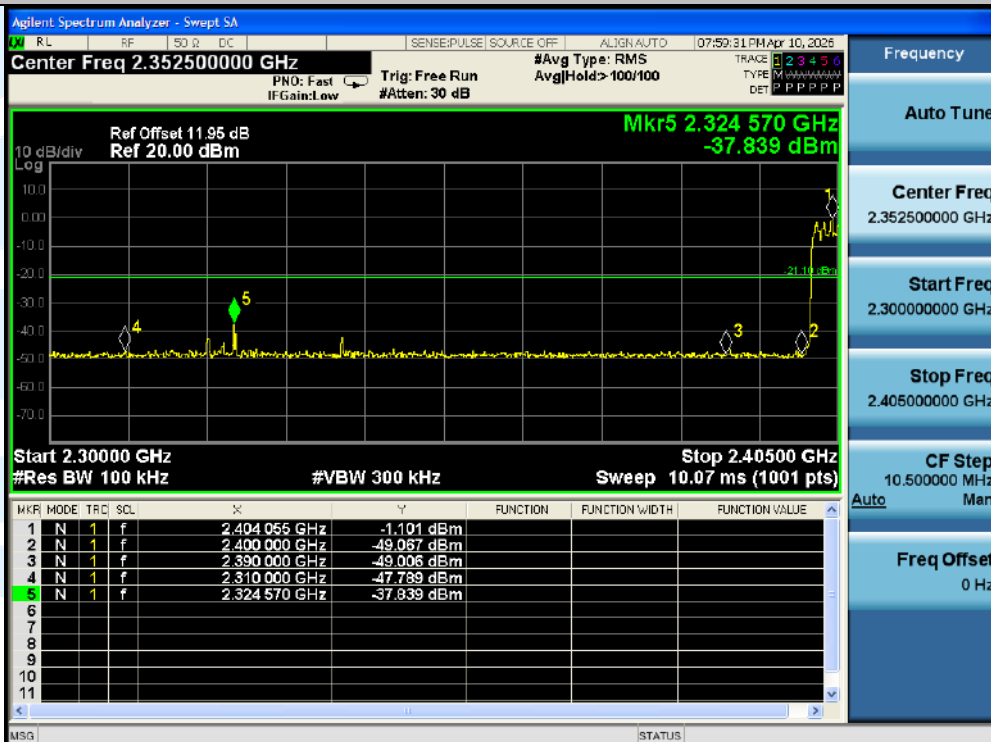


DH5-Ant1-Hop_2402-PASS

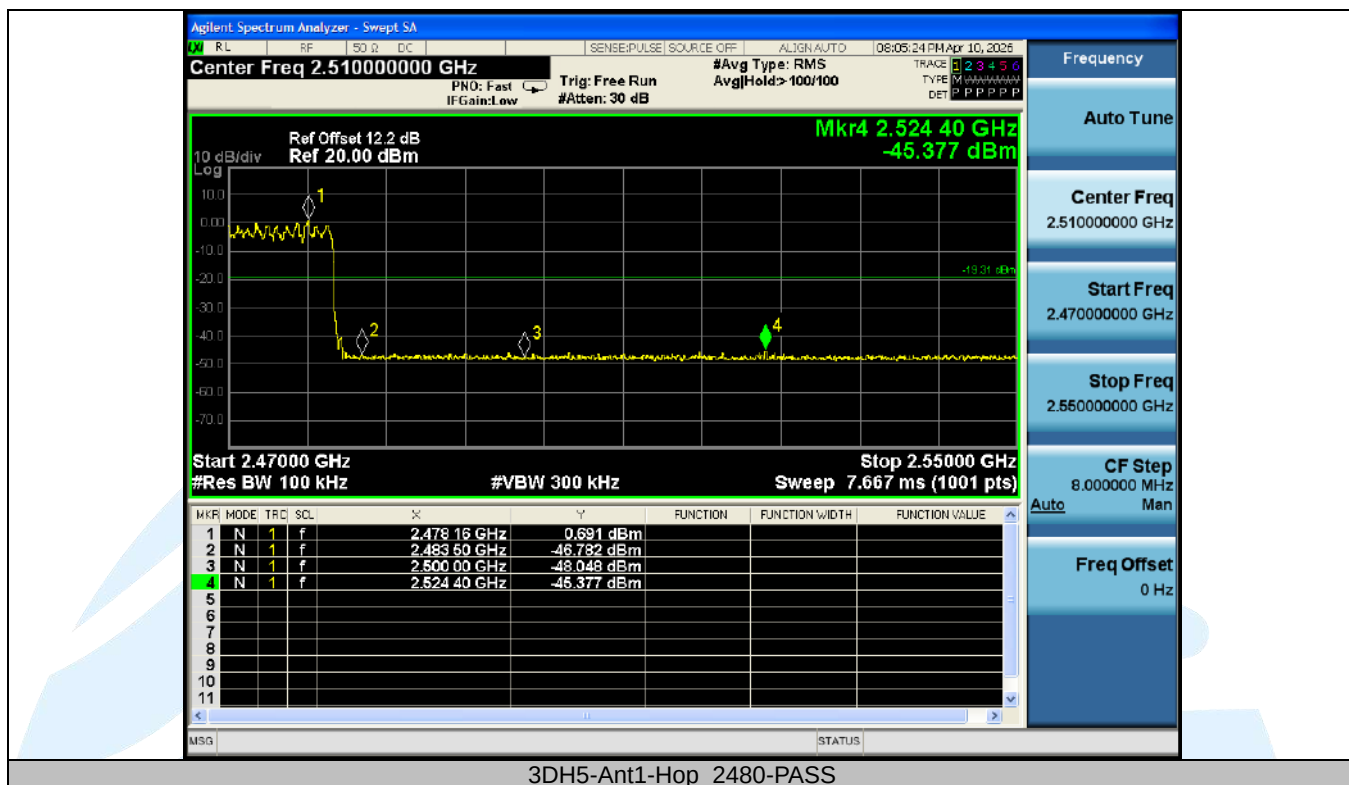




3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



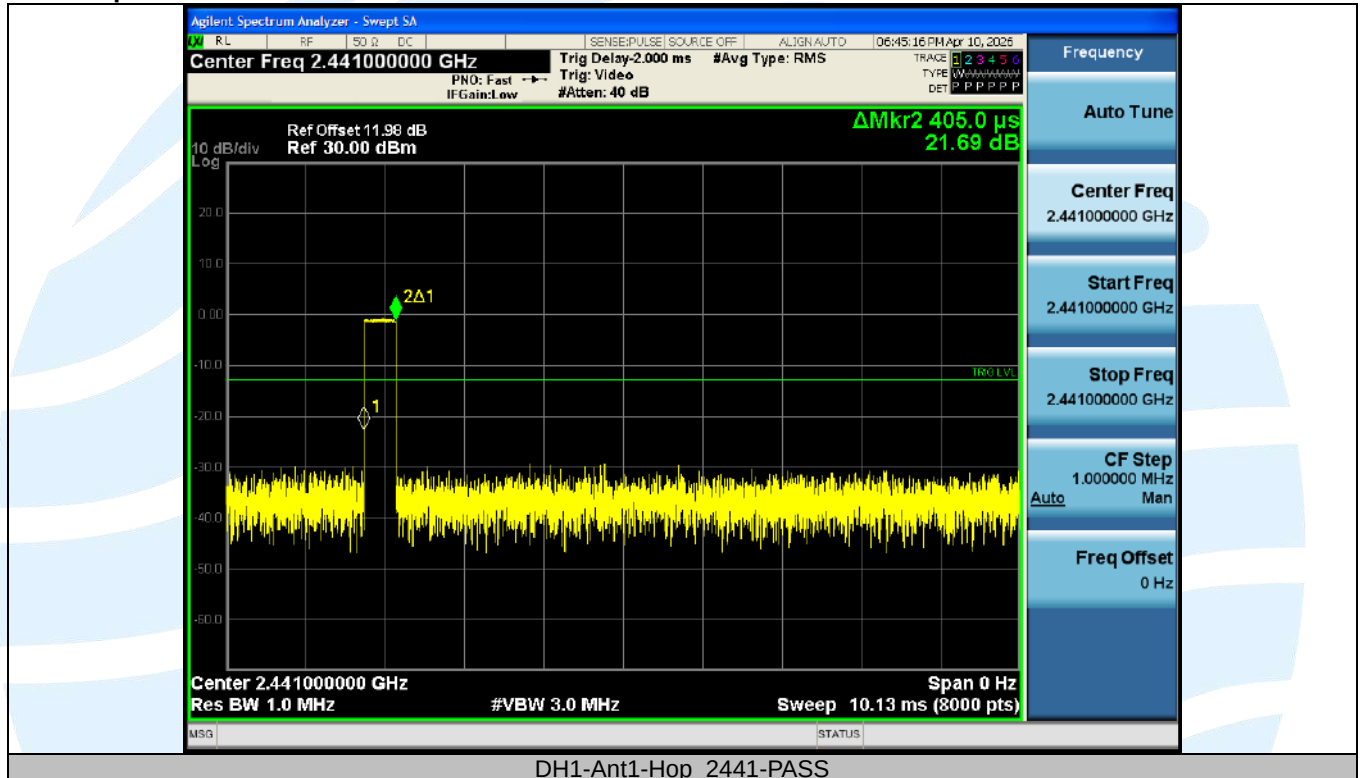
A.7 DWELL TIME

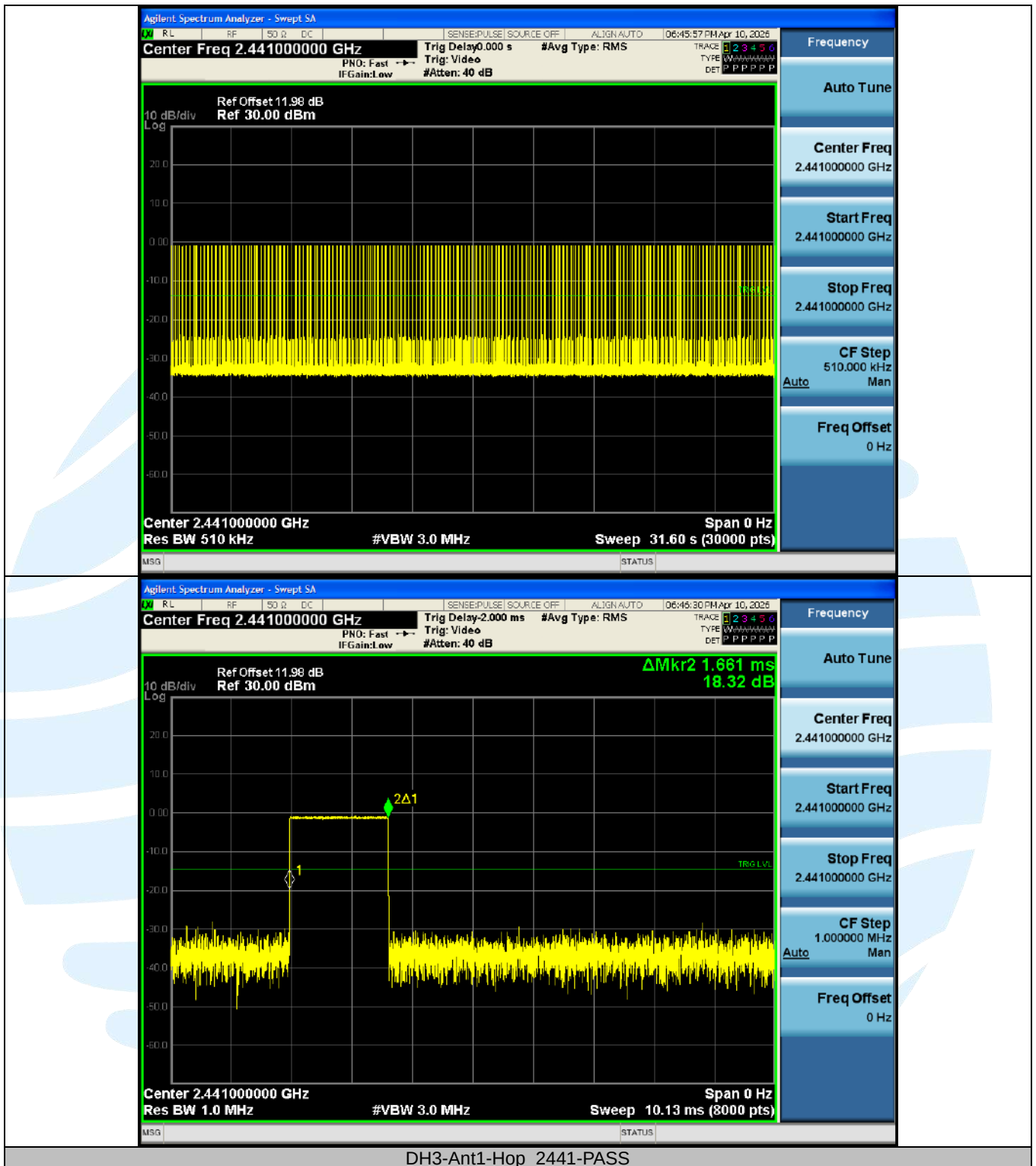
Left earbud

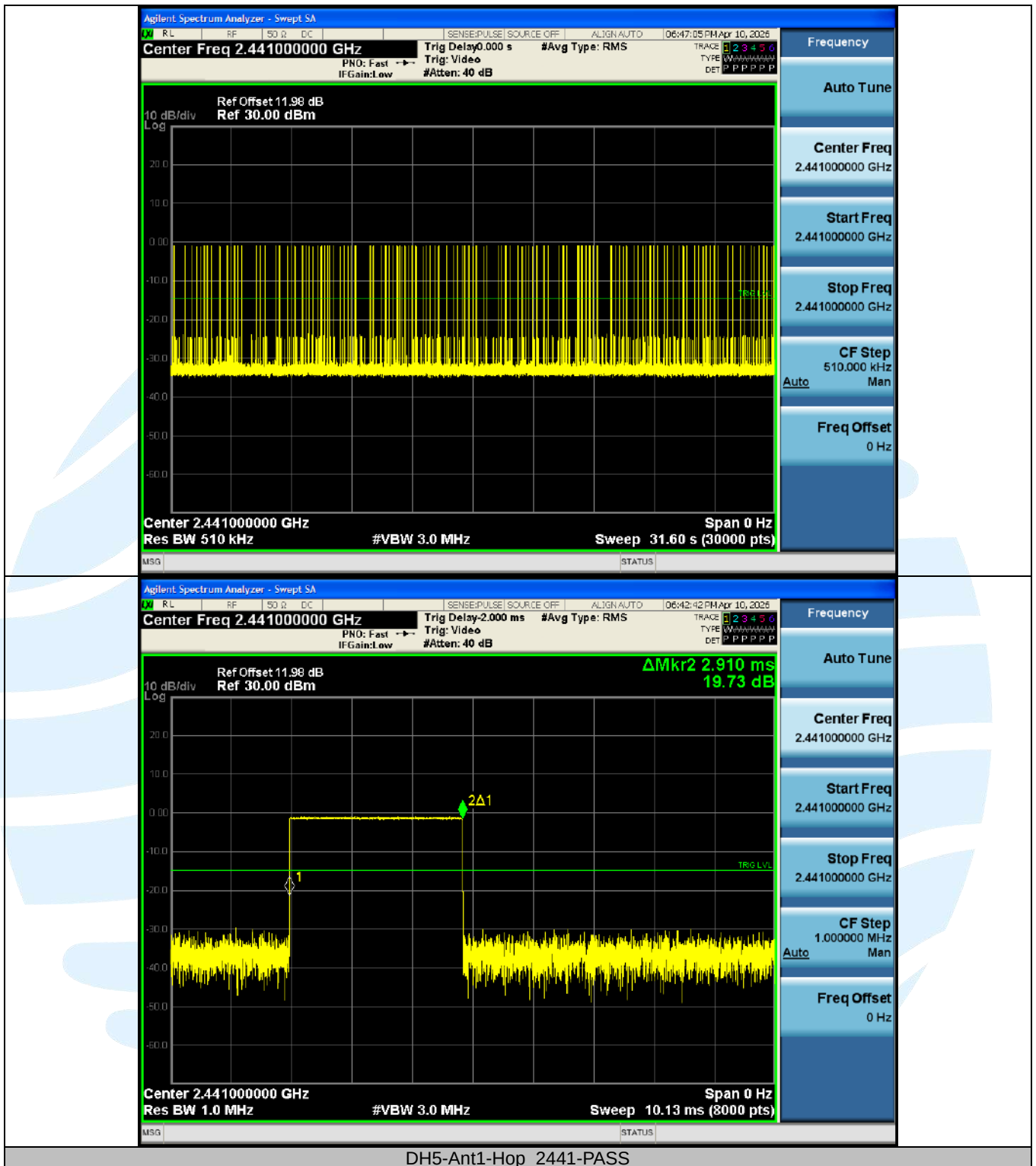
Test Result

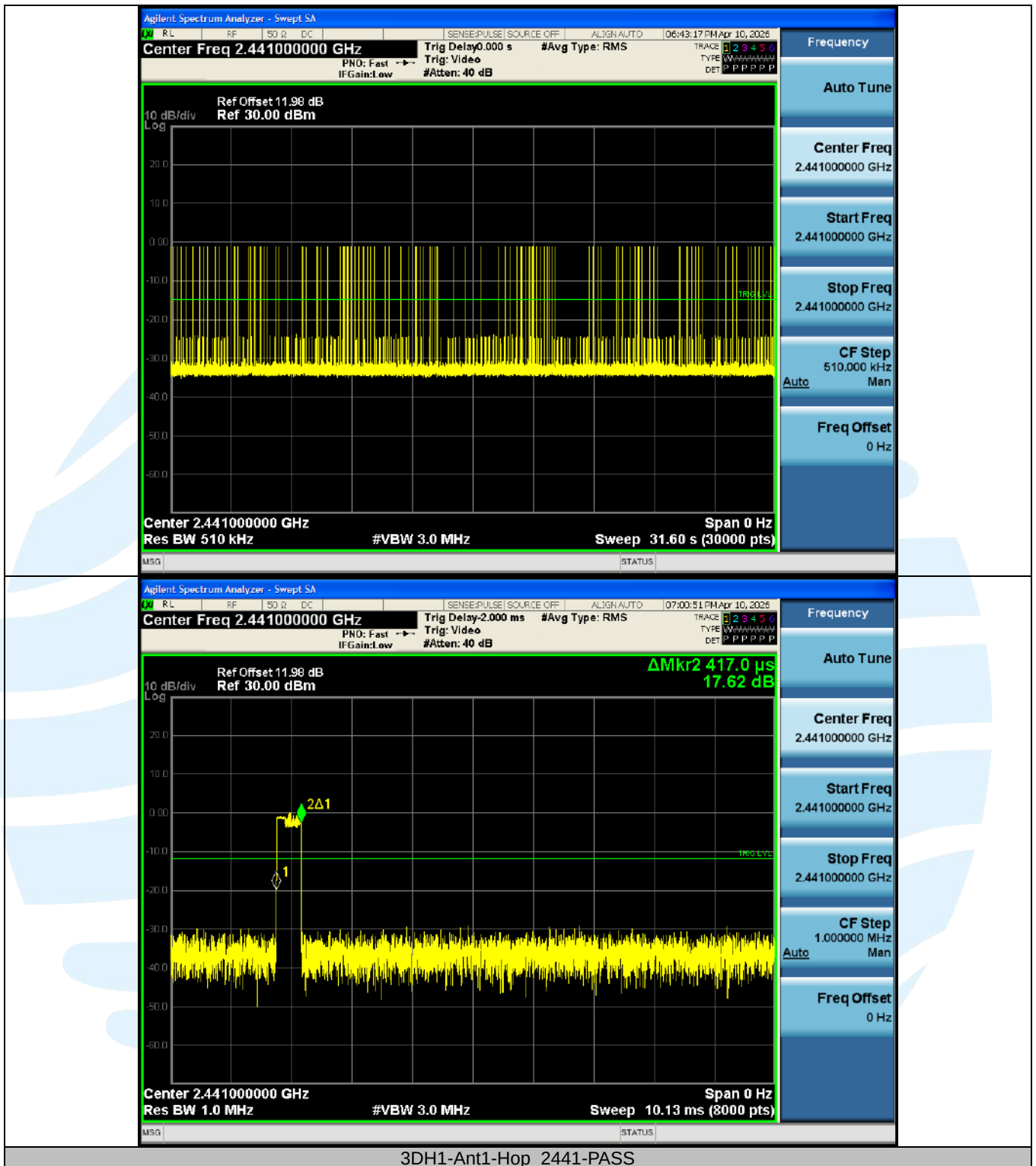
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total Hops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop_2441	0.405	320	0.13	≤0.4	PASS
DH3	Ant1	Hop_2441	1.661	160	0.266	≤0.4	PASS
DH5	Ant1	Hop_2441	2.910	110	0.32	≤0.4	PASS
3DH1	Ant1	Hop_2441	0.417	320	0.133	≤0.4	PASS
3DH3	Ant1	Hop_2441	1.667	158	0.263	≤0.4	PASS
3DH5	Ant1	Hop_2441	2.917	101	0.295	≤0.4	PASS

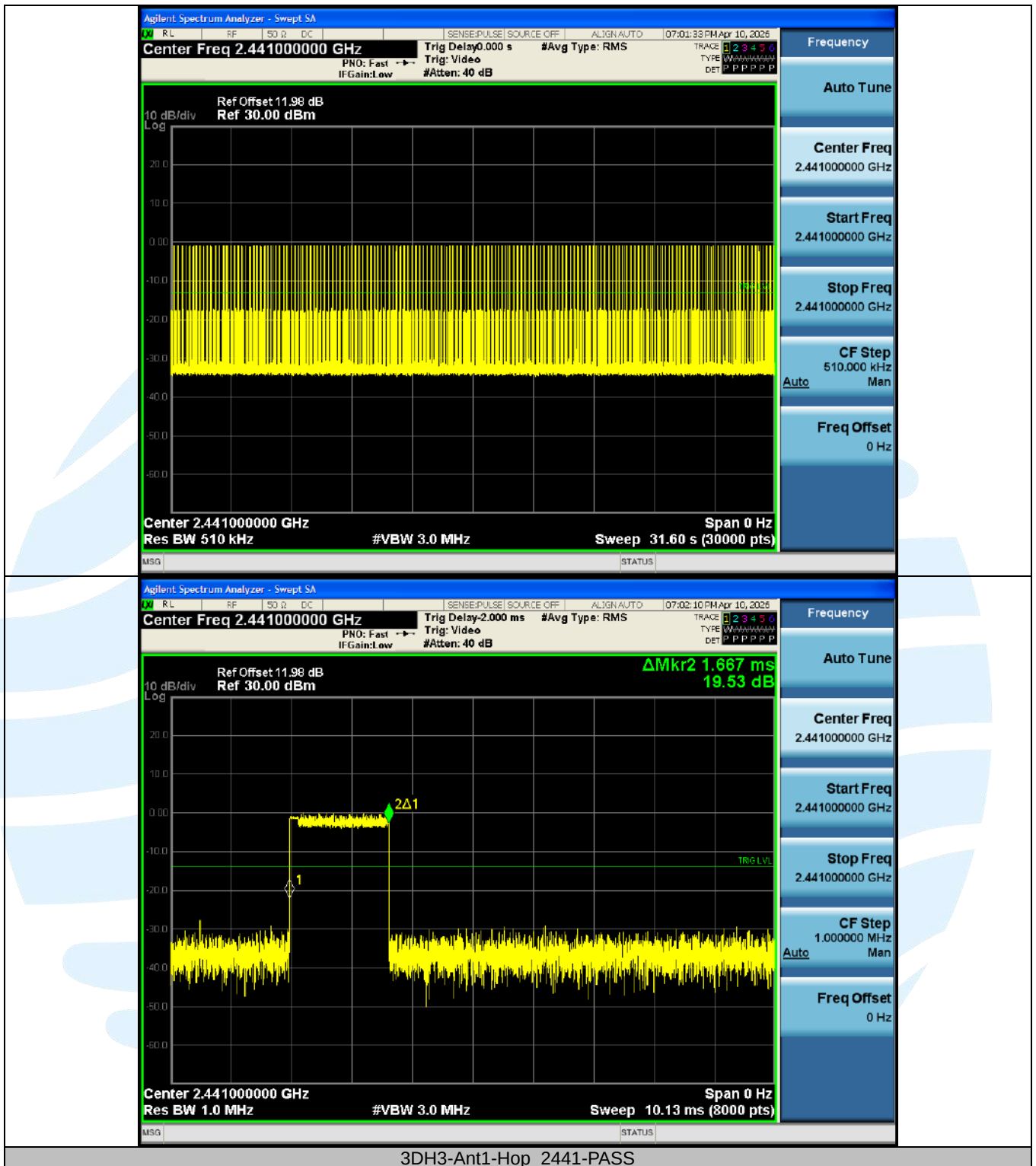
Test Graphs

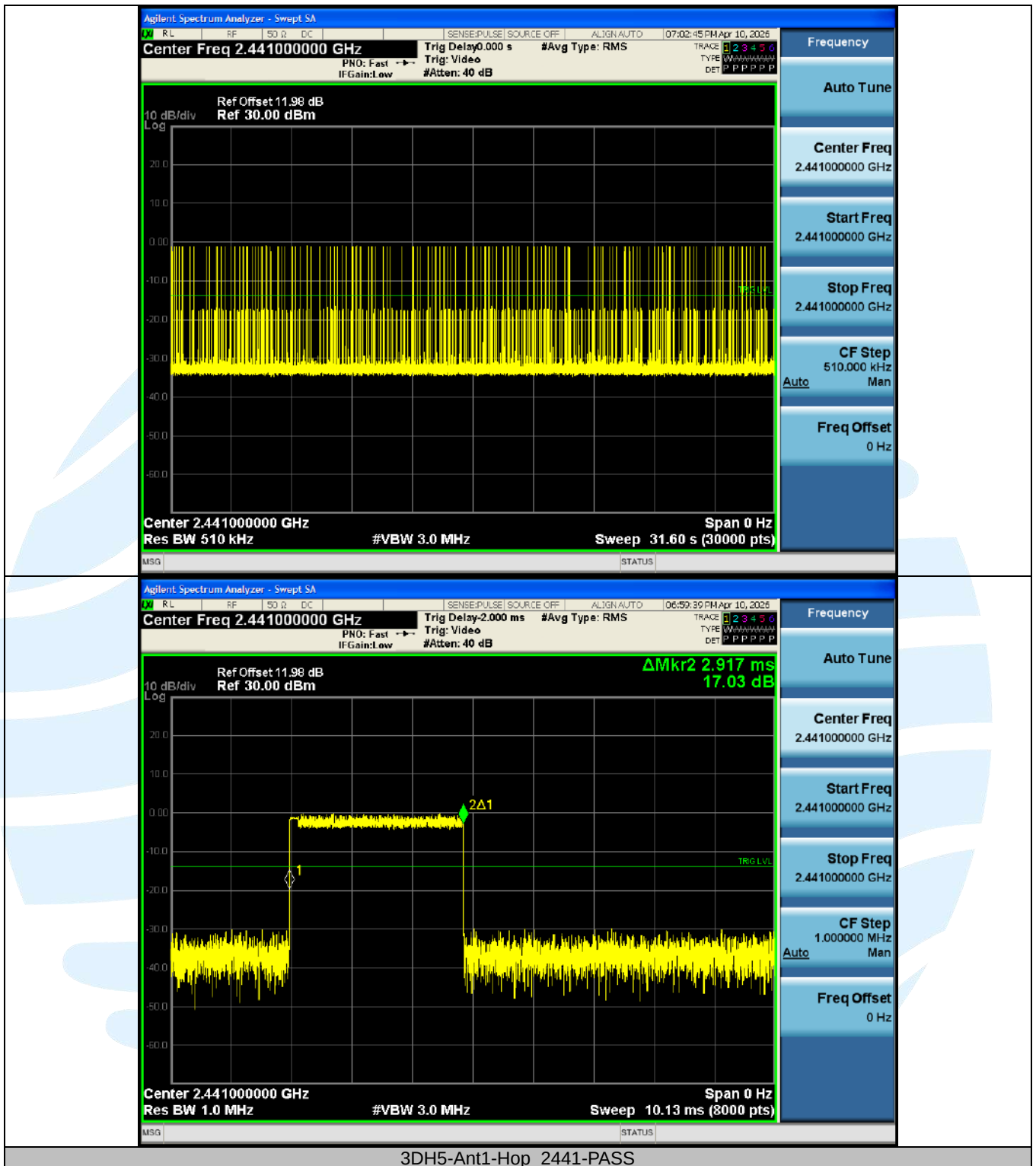


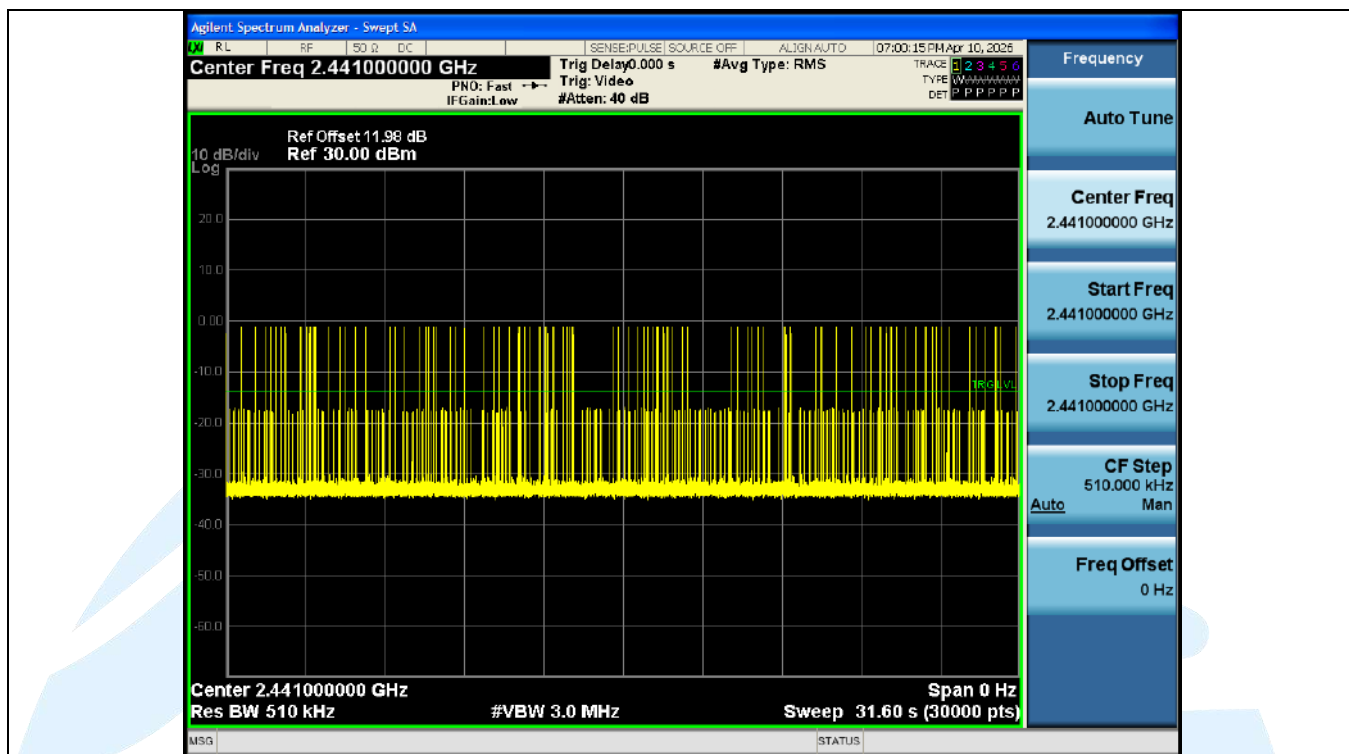










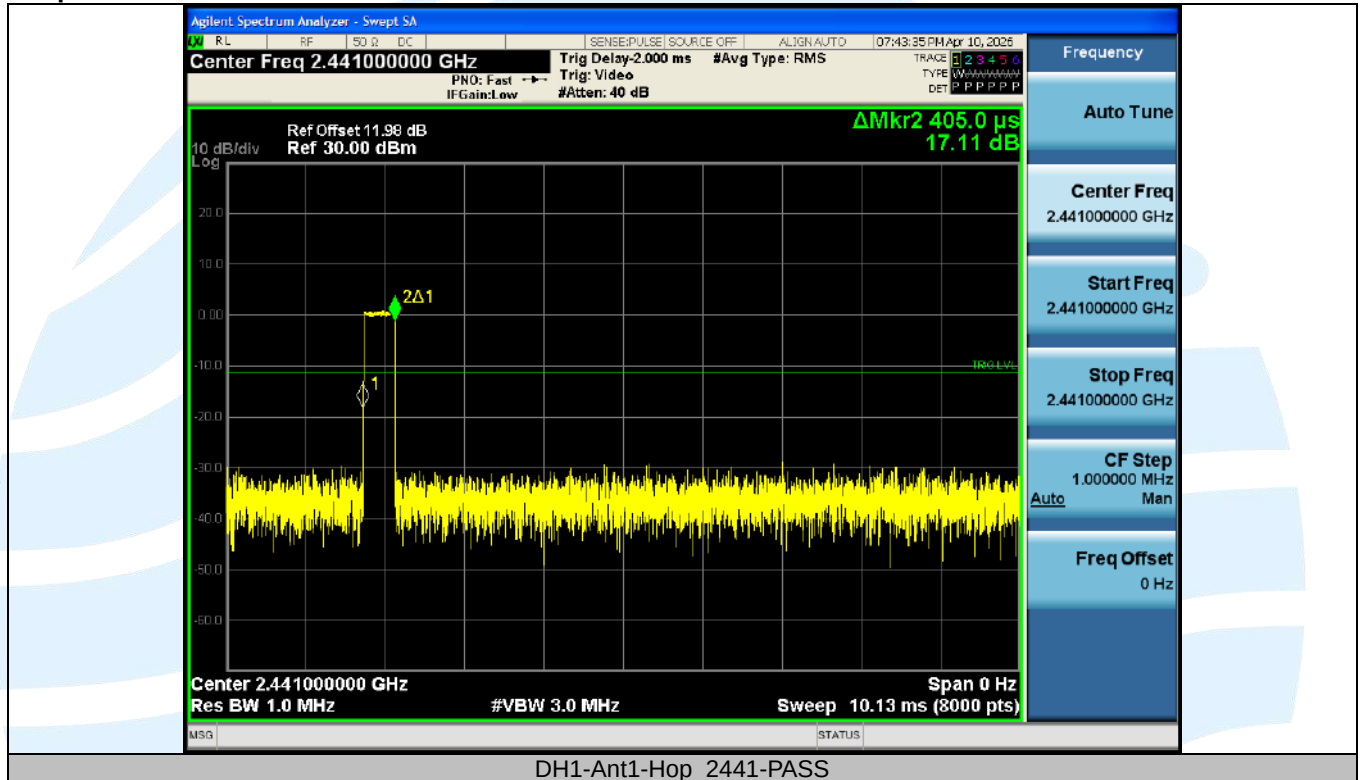


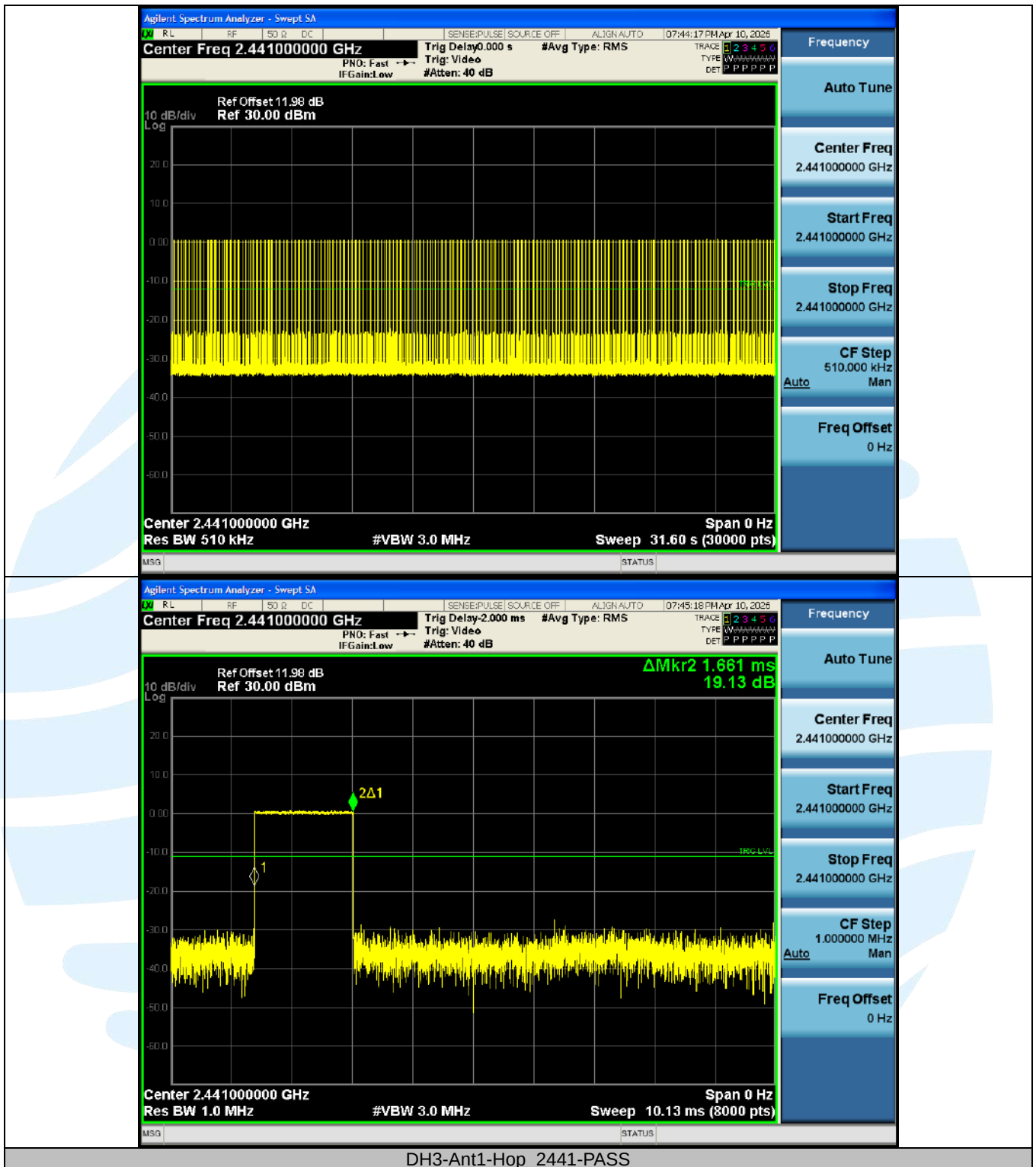
Right earbud

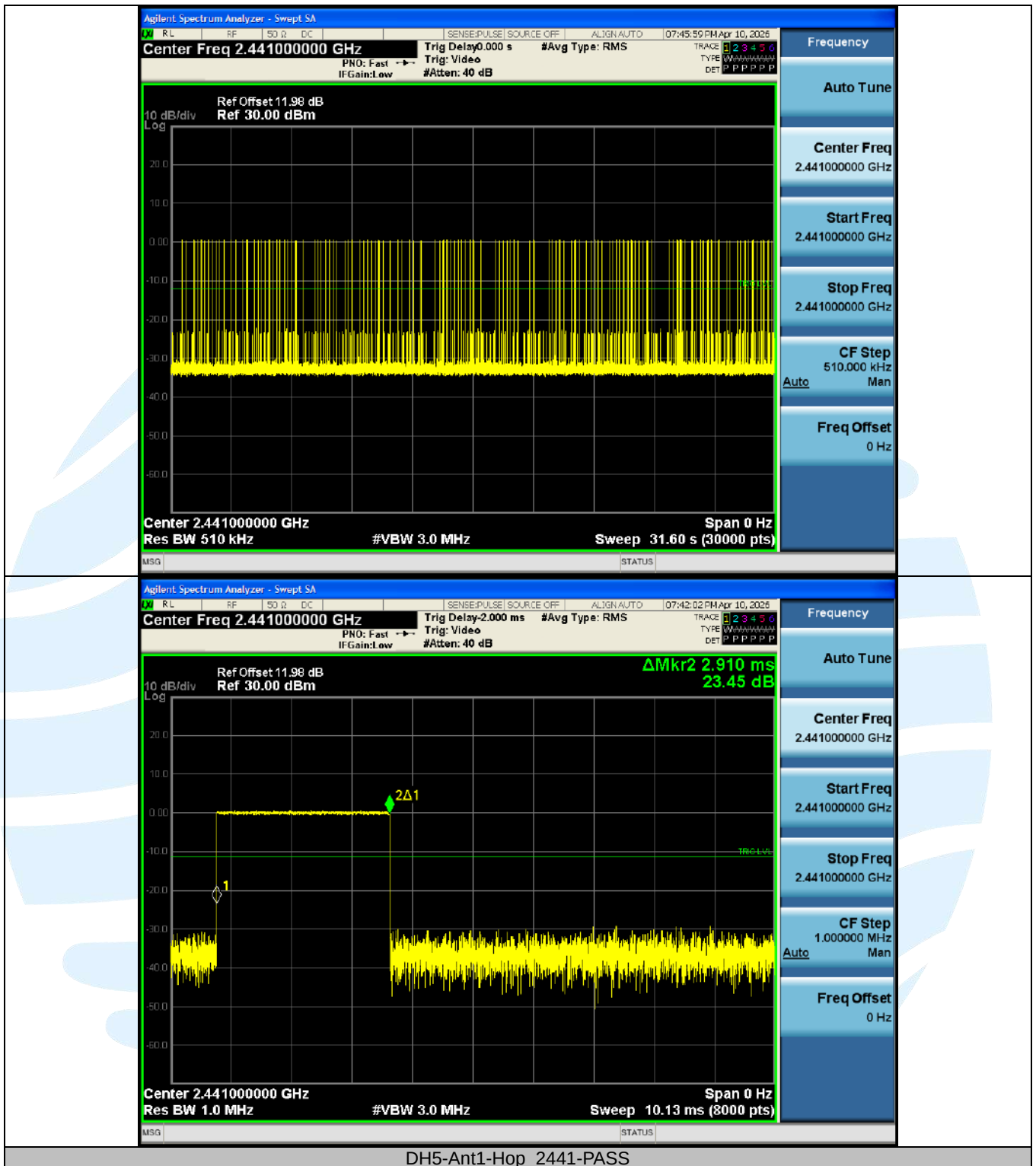
Test Result

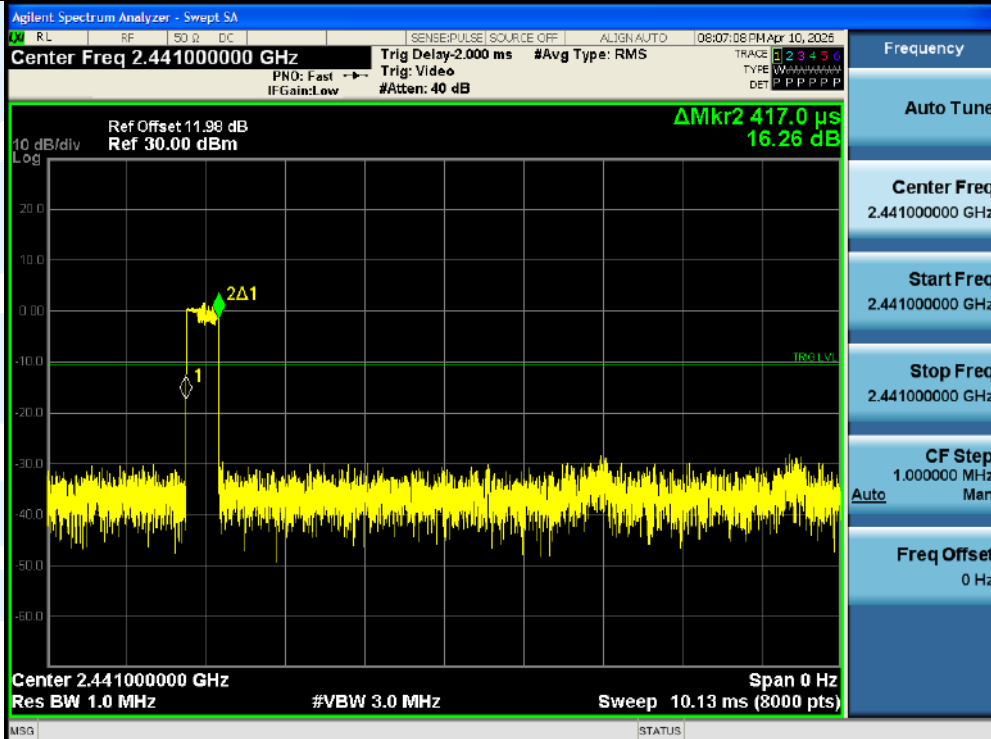
Test Mode	Antenna	Frequency [MHz]	Burst Width [ms]	Total IHops [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop_2441	0.405	316	0.128	≤0.4	PASS
DH3	Ant1	Hop_2441	1.661	162	0.269	≤0.4	PASS
DH5	Ant1	Hop_2441	2.910	108	0.314	≤0.4	PASS
3DH1	Ant1	Hop_2441	0.417	318	0.133	≤0.4	PASS
3DH3	Ant1	Hop_2441	1.667	161	0.268	≤0.4	PASS
3DH5	Ant1	Hop_2441	2.917	108	0.315	≤0.4	PASS

Test Graphs

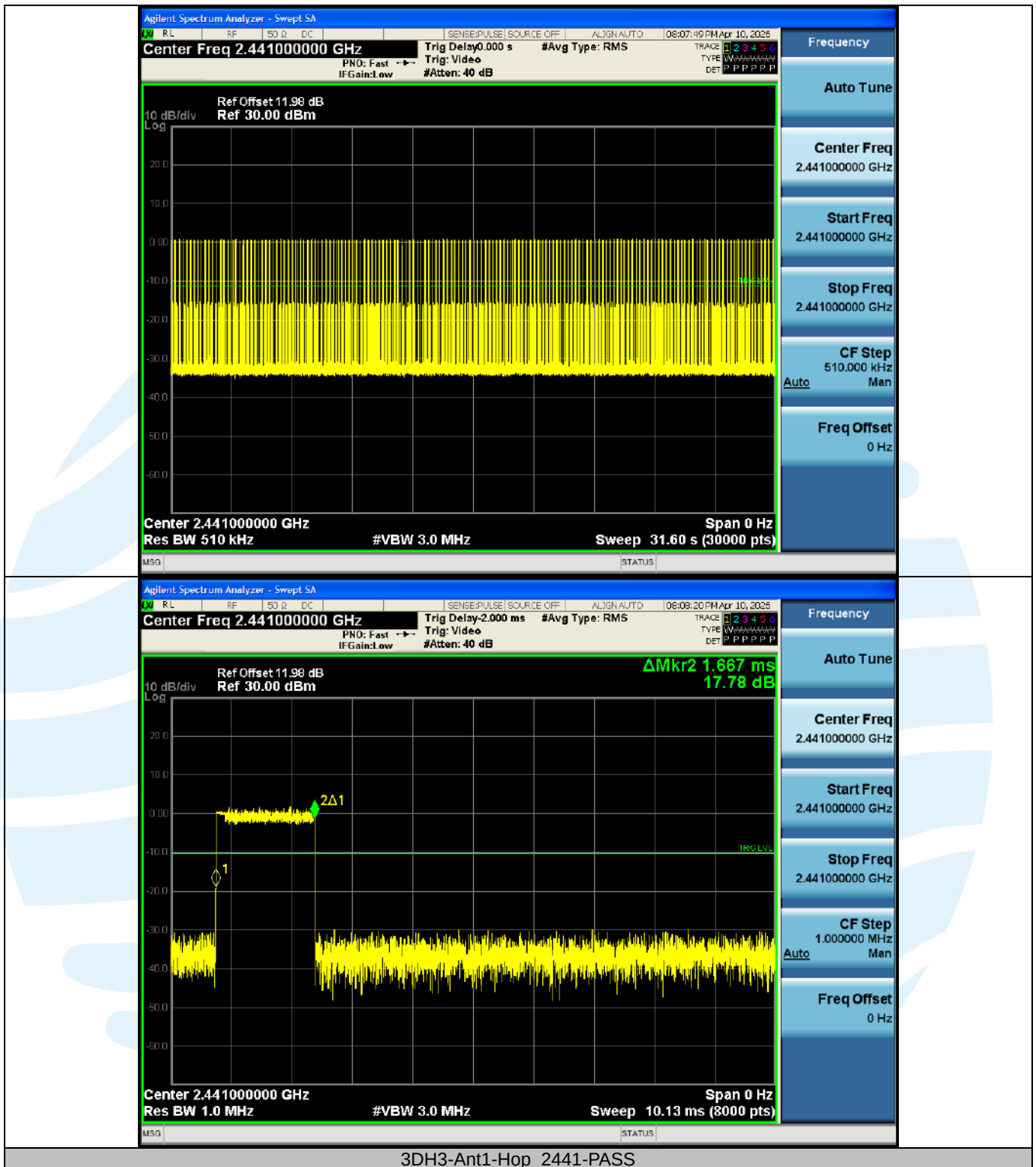








3DH1-Ant1-Hop_2441-PASS

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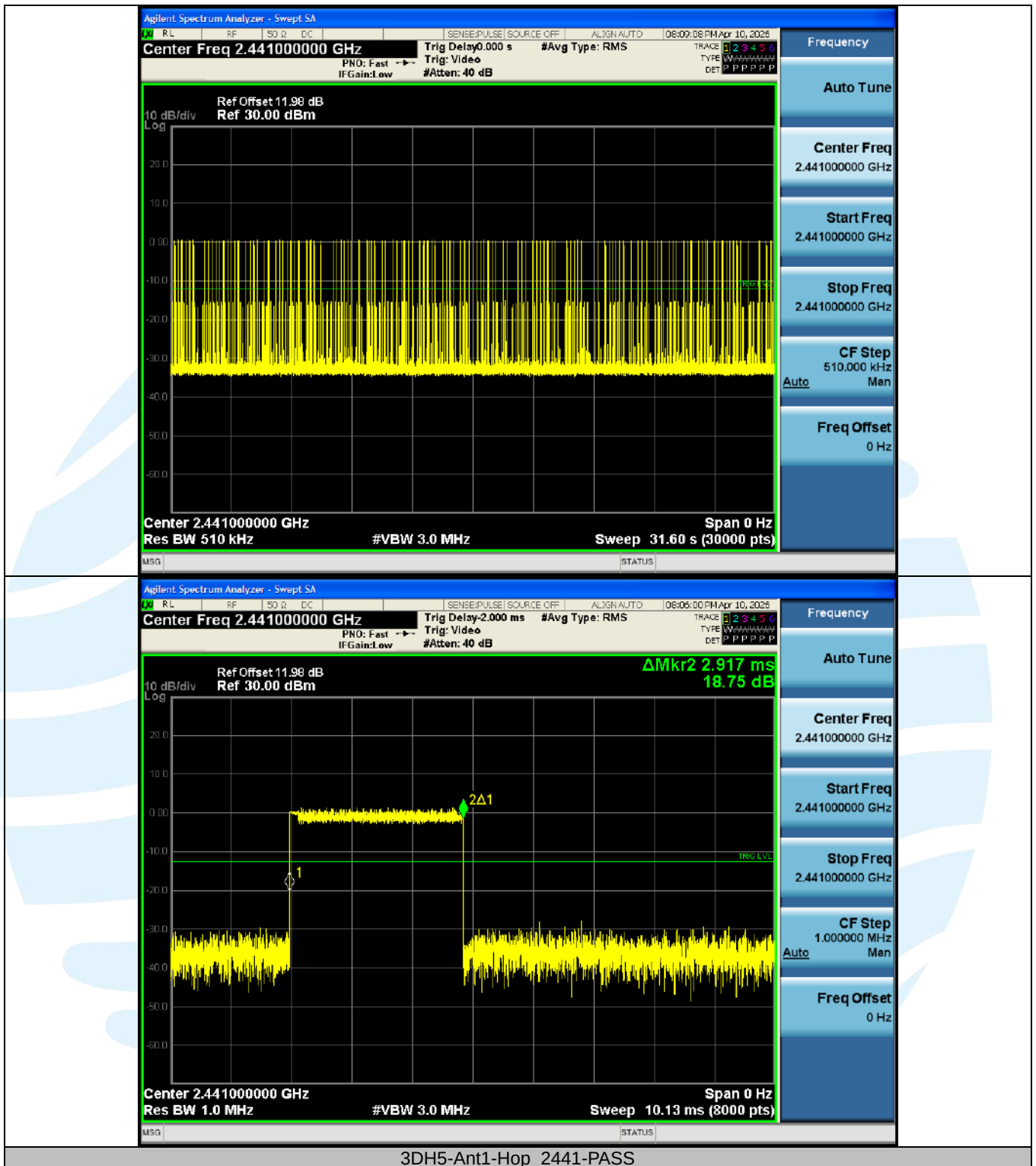
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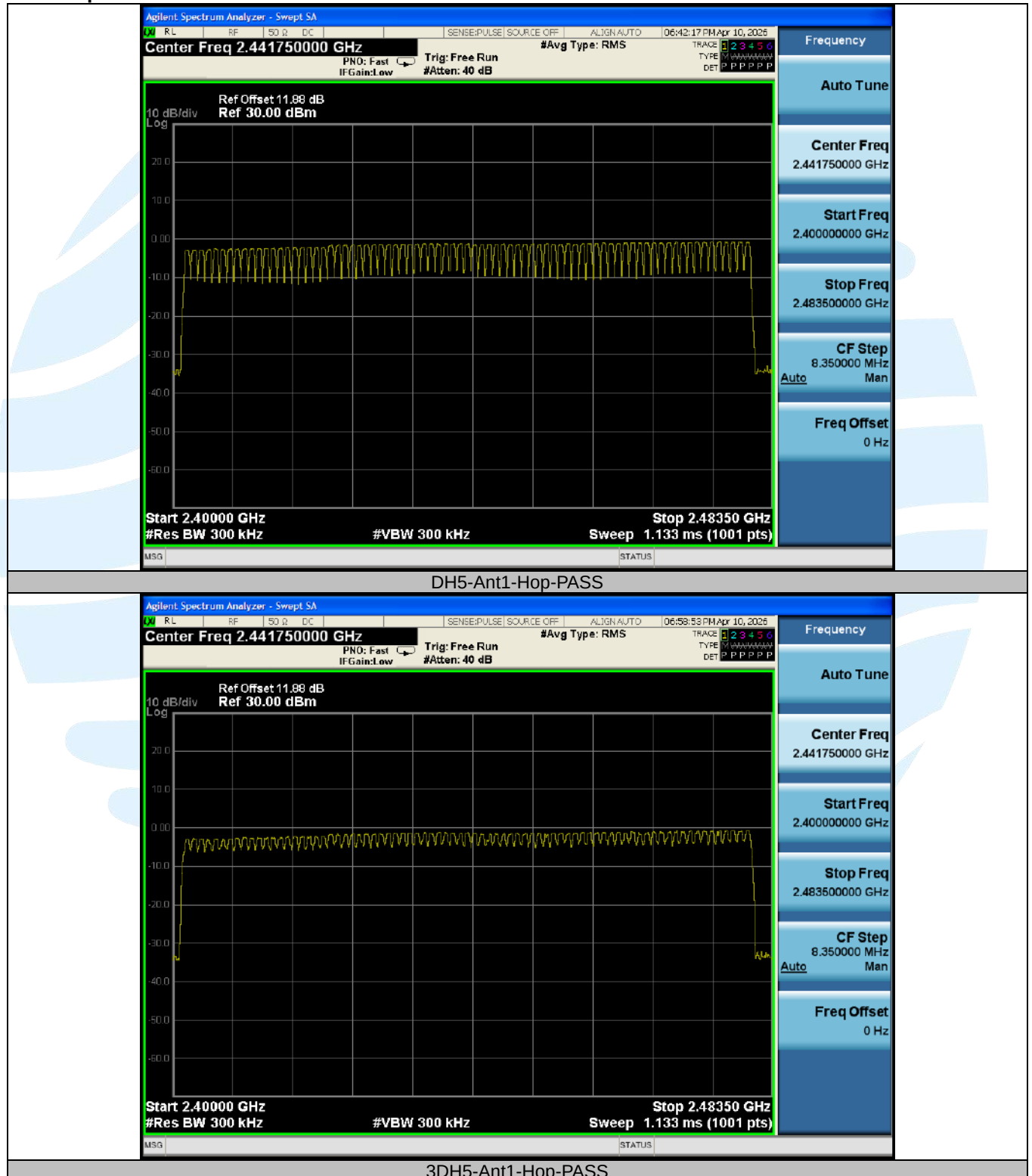
A.8 NUMBER OF HOPPING CHANNEL

Left earbud

Test Result

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

Test Graphs

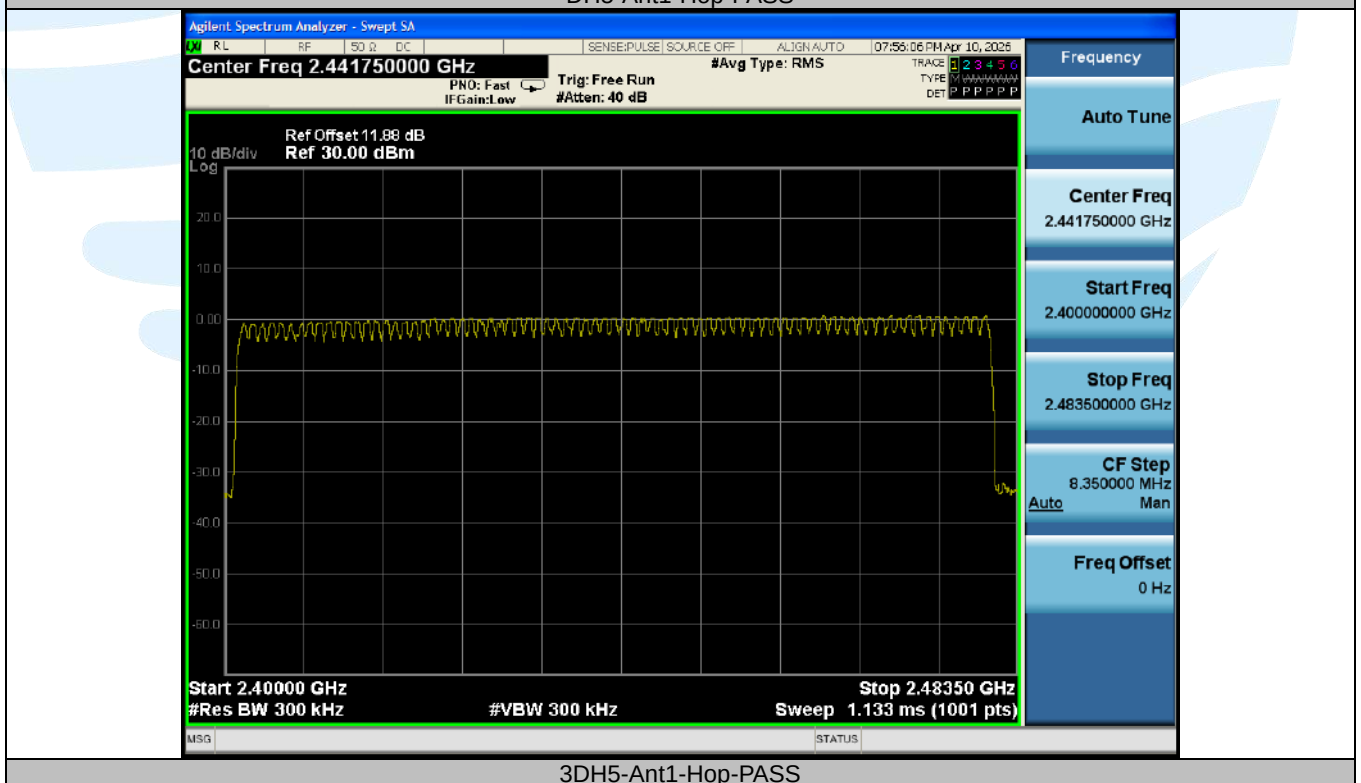
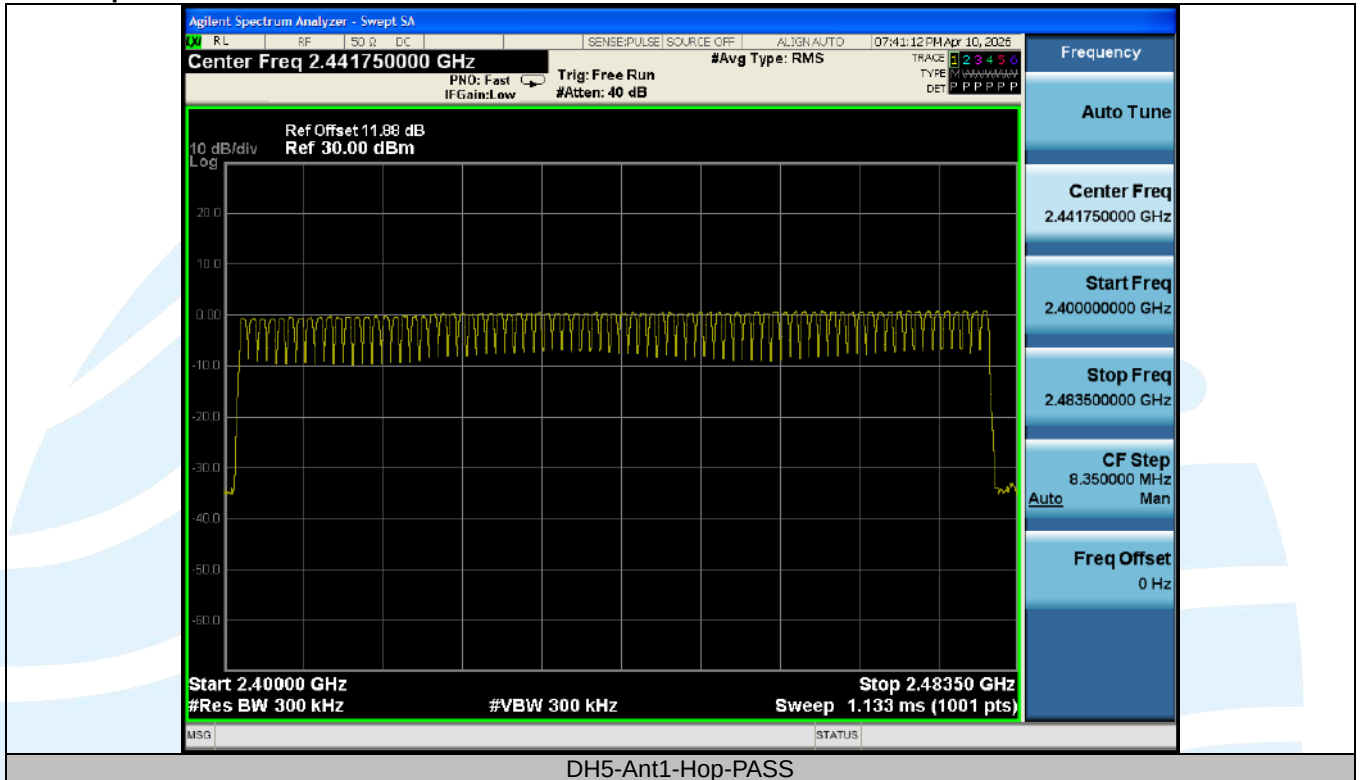


Right earbud

Test Result

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

Test Graphs



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

*** End of Report ***

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