

Test Report

Report No. : MTi260409013-0102E1

Date of issue : 2026-06-15

Applicant : Zhuhai Quin Technology Co., Ltd.

Product : Label Printer

Model(s) : PM643, PM643WF+, PM643WF Plus, PM643air, PM642, PM643AP, PM643WF, PM643W, PM645WF+, PM645WF Plus, PM645air, PM645, PM645AP, PM645WF, PM645W, PM646WF+, PM646WF Plus, PM646air, PM646, PM646AP, PM646WF, PM646W, TK42, TK42C, D643, D642A, D642B, D642 Pro, D642WF Plus, D643 Pro, D643WF Plus, D643WF, D642WF, D643W, D642W, D642, D450H, PM6431, PM6432, PM647, PM648, PM6433, PM649, D450 Pro, PM642Air, PM64Air, D420Air, PM6421

FCC ID : 2ASRB-PM643

Shenzhen Microtest Co., Ltd.

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Test Result Certification		
Applicant	Zhuhai Quin Technology Co., Ltd.	
Applicant Address	1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY	
Manufacturer	Zhuhai Quin Technology Co., Ltd.	
Manufacturer Address	1ST FLOOR, BUILDING 1, NO. 456 CHUANGYUAN ROAD, XIANGZHOU DISTRICT, ZHUHAI CITY	
Product description		
Product name	Label Printer	
Trademark	N/A	
Model name	PM643	
Series Model(s)	PM643WF+, PM643WF Plus, PM643air, PM642, PM643AP, PM643WF, PM643W, PM645WF+, PM645WF Plus, PM645air, PM645, PM645AP, PM645WF, PM645W, PM646WF+, PM646WF Plus, PM646air, PM646, PM646AP, PM646WF, PM646W, TK42, TK42C, D643, D642A, D642B, D642 Pro, D642WF Plus, D643 Pro, D643WF Plus, D643WF, D642WF, D643W, D642W, D642, D450H, PM6431, PM6432, PM647, PM648, PM6433, PM649, D450 Pro, PM642Air, PM64Air, D420Air, PM6421	
Standards	47 CFR Part 15.247	
Test Method	KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2020+Cor.1-2023	
Testing Information		
Date of test	2026-05-08 to 2026-05-11	
Test result	Pass	
Prepared by:	Letter Lan	<i>Letter Lan.</i>
Reviewed by:	David Lee	<i>David. Lee</i>
Approved by:	Lewis Lian	<i>Lewis Lian</i>

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1 General Description

1.1 Description of the EUT

Product name:	Label Printer
Model name:	PM643
Series Model(s):	PM643WF+, PM643WF Plus, PM643air, PM642, PM643AP, PM643WF, PM643W, PM645WF+, PM645WF Plus, PM645air, PM645, PM645AP, PM645WF, PM645W, PM646WF+, PM646WF Plus, PM646air, PM646, PM646AP, PM646WF, PM646W, TK42, TK42C, D643, D642A, D642B, D642 Pro, D642WF Plus, D643 Pro, D643WF Plus, D643WF, D642WF, D643W, D642W, D642, D450H, PM6431, PM6432, PM647, PM648, PM6433, PM649, D450 Pro, PM642Air, PM64Air, D420Air, PM6421
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: 24V~2.5A
Accessories:	Adaptor: Model: ZL-C06W2402500-US Input: 100-240V~ 50/60Hz 1.5A Max Output: 24.0V~2500mA 60.0W Cable: Type-C cable*1 1.2m USB Adapter (Type-A to Type-C*1) 0.15m
Hardware version:	Q
Software version:	V
Test sample(s) number:	MTi260409013-01-R001
RF specification	
Bluetooth version:	V5.3
Operating frequency range:	2402MHz to 2480MHz
Channel number:	79
Modulation type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna(s) type:	FPC
Antenna(s) gain:	2.42dBi

1.2 Description of test modes

No.	Emission test modes
Mode1	TX-GFSK
Mode2	TX- $\pi/4$ DQPSK
Mode3	TX-8DPSK

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1.2.1 Operation channel list

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	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	-	-

Test Channel List

Operation Band: 2400-2483.5 MHz

Bandwidth (MHz)	Lowest Channel (LCH) (MHz)	Middle Channel (MCH) (MHz)	Highest Channel (HCH) (MHz)
1	2402	2441	2480

Note: The test software provided by manufacturer is used to control EUT for working in engineering mode, that enables selectable channel, and capable of continuous transmitting mode.

Test Software: Hammer

For power setting, refer to below table.

Mode	2402MHz	2441MHz	2480MHz
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GFSK	0X03	0X03	0X03
$\pi/4$ -DQPSK	0X03	0X03	0X03
8DPSK	0X03	0X03	0X03

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1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

Support equipment list

Description	Model	Serial No.	Manufacturer
/	/	/	/

Support cable list

Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
RF output power, conducted	±1 dB
Time	±1 %
Unwanted Emissions, conducted	±1 dB
Radiated spurious emissions (above 1GHz)	±5.3dB
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15.247	47 CFR 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15.247	47 CFR 15.207(a)	Pass
3	20dB Bandwidth	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
4	Maximum Conducted Output Power	47 CFR Part 15.247	47 CFR 15.247(b)(1)	Pass
5	Channel Separation	47 CFR Part 15.247	47 CFR 15.247(a)(1)	Pass
6	Number of Hopping Frequencies	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
7	Dwell Time	47 CFR Part 15.247	47 CFR 15.247(a)(1)(iii)	Pass
8	RF conducted spurious emissions and band edge measurement	47 CFR Part 15.247	47 CFR 15.247(d)	Pass
9	Band edge emissions (Radiated)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
10	Radiated emissions (below 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass
11	Radiated emissions (above 1GHz)	47 CFR Part 15.247	47 CFR 15.247(d), 15.209, 15.205	Pass

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3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

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4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2026-03-10	2027-03-09
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2026-03-11	2027-03-10
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2026-03-10	2027-03-09
4	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/
Emissions in non-restricted frequency bands 20dB Bandwidth Maximum Conducted Output Power Channel Separation Number of Hopping Frequencies Dwell Time						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2026-03-09	2027-03-08
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2026-03-09	2027-03-08
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2026-03-10	2027-03-09
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2026-03-09	2027-03-08
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2026-03-11	2027-03-10
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2026-03-11	2027-03-10
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2026-03-10	2027-03-09
9	DC Power Supply	Agilent	E3632A	MY40027695	2026-03-09	2027-03-08
10	RF Test System	Tonscend	JS1120-3 Test System Ver. V3.5.39	/	/	/
Band edge emissions (Radiated) Emissions in frequency bands (above 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2026-03-10	2027-03-09
2	Double Ridged Broadband Horn Antenna	schwarabeck	BBHA 9120 D	2278	2025-05-27	2027-05-26
3	Amplifier	Agilent	8449B	3008A01120	2026-03-10	2027-03-09
4	MXA signal analyzer	Agilent	N9020A	MY54440859	2026-03-10	2027-03-09
5	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2026-03-10	2027-03-09

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No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
6	Horn antenna	Schwarzbeck	BBHA 9170	00987	2025-05-27	2027-05-26
7	Pre-amplifier	Space-Dtronics	EWLAN18 40G	210405001	2026-03-11	2027-03-10
8	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/
Emissions in frequency bands (below 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESC17	101166	2026-03-10	2027-03-09
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2025-05-23	2027-05-22
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2026-03-08	2028-03-07
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2026-03-10	2027-03-09
5	EMI Measurement Software	Farad	EZ-EMC Ver.EMEC-3A1	/	/	/

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5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
Test Method:	---

5.1.1 Conclusion:

The antenna of the EUT is permanently attached.
The EUT complies with the requirement of FCC PART 15.203.

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6 Radio Spectrum Matter Test Results (RF)

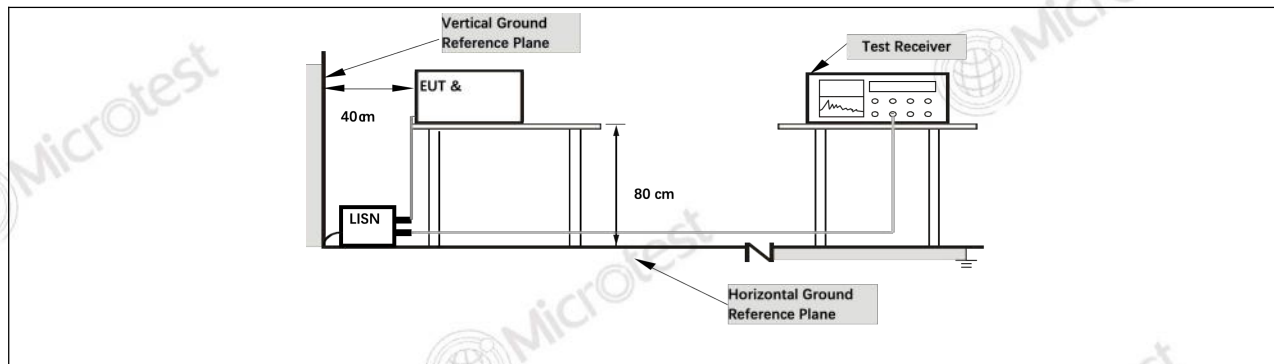
6.1 Conducted Emission at AC power line

Test Requirement:	Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
*Decreases with the logarithm of the frequency.			
Test Method:	ANSI C63.10-2020+Cor.1-2023 section 6.2		
Procedure:	Refer to ANSI C63.10-2020+Cor.1-2023 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	21.3 °C	Humidity:	36.5 %	Atmospheric Pressure:	100.7 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode1) is recorded in the report				

6.1.2 Test Setup Diagram:

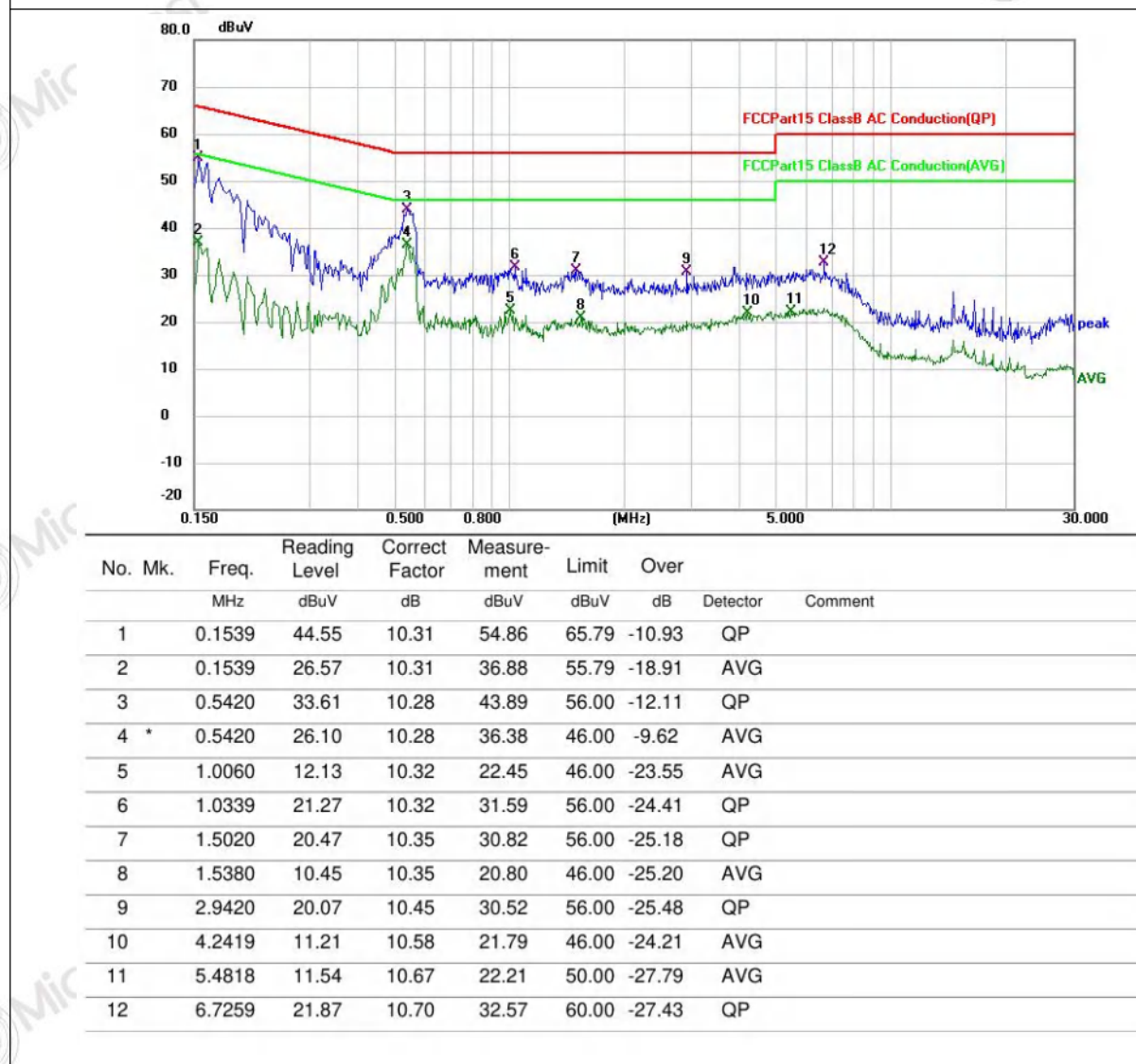


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6.1.3 Test Data:

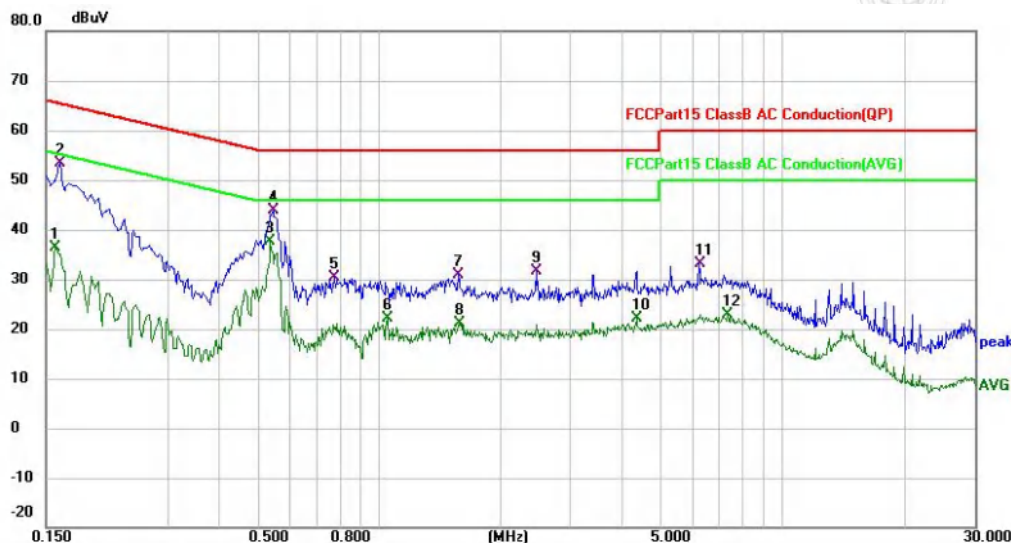
Mode1 / Line: Line / CH: L



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Mode1 / Line: Neutral / CH: L



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1580	26.11	10.32	36.43	55.57	-19.14	AVG	
2		0.1620	43.05	10.31	53.36	65.36	-12.00	QP	
3	*	0.5380	27.29	10.28	37.57	46.00	-8.43	AVG	
4		0.5460	33.55	10.28	43.83	56.00	-12.17	QP	
5		0.7780	20.13	10.31	30.44	56.00	-25.56	QP	
6		1.0500	11.69	10.32	22.01	46.00	-23.99	AVG	
7		1.5740	20.63	10.36	30.99	56.00	-25.01	QP	
8		1.5780	10.87	10.36	21.23	46.00	-24.77	AVG	
9		2.4660	21.18	10.43	31.61	56.00	-24.39	QP	
10		4.3739	11.41	10.61	22.02	46.00	-23.98	AVG	
11		6.2459	22.48	10.72	33.20	60.00	-26.80	QP	
12		7.3500	12.04	10.75	22.79	50.00	-27.21	AVG	

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6.2 20dB Bandwidth

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020+Cor.1-2023, section 7.8.6, For occupied bandwidth measurements, use the procedure in 6.9.3. Frequency hopping shall be disabled for this test. KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth: a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2. d) Step a) through step c) might require iteration to adjust within the specified range. e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used. f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

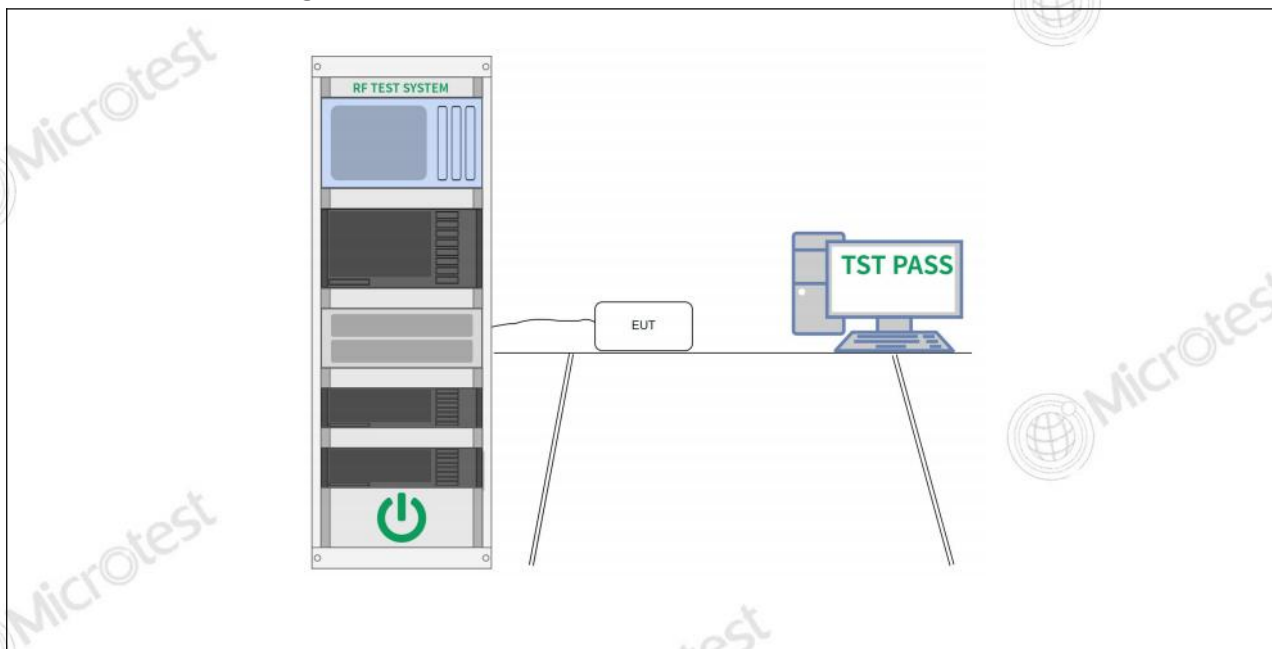
6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	47.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

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6.2.2 Test Setup Diagram:



6.2.3 Test Data:

Please Refer to Appendix for Details.

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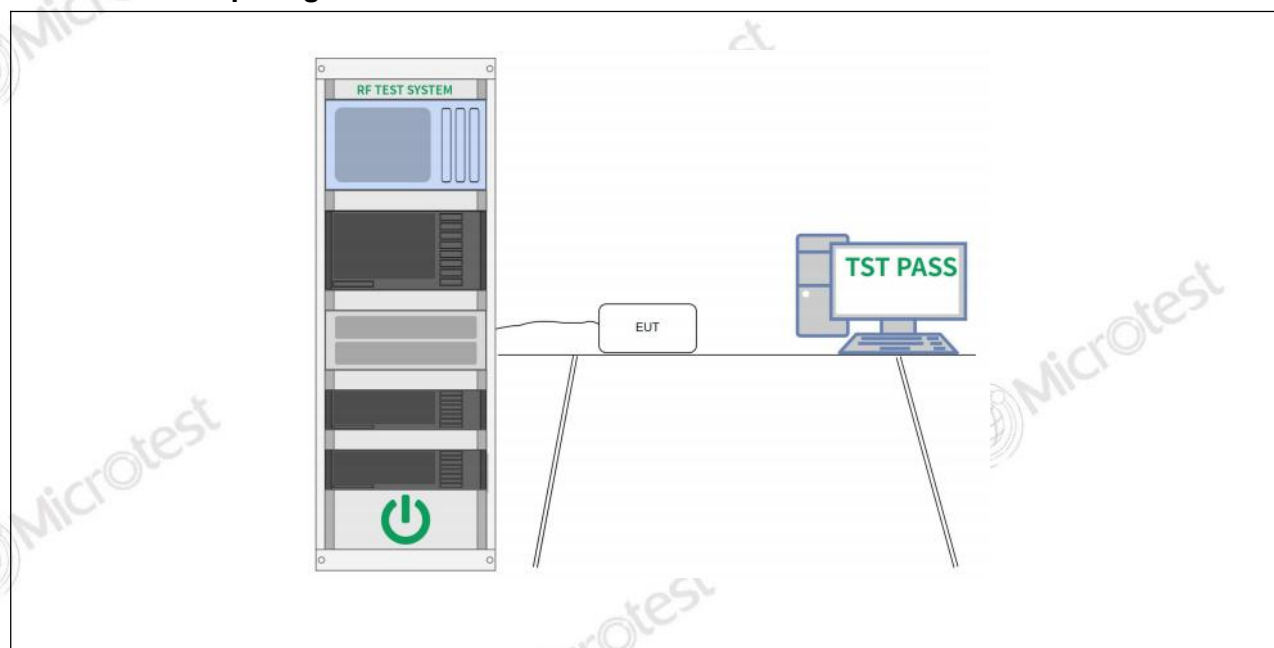
6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR 15.247(b)(1)
Test Limit:	Refer to 47 CFR 15.247(b)(1), 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.
Test Method:	ANSI C63.10-2020+Cor 1-2023, section 7.8.5 KDB 558074 D01 15.247 Meas Guidance v05r02

6.3.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	47.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.3.2 Test Setup Diagram:



6.3.3 Test Data:

Please Refer to Appendix for Details.

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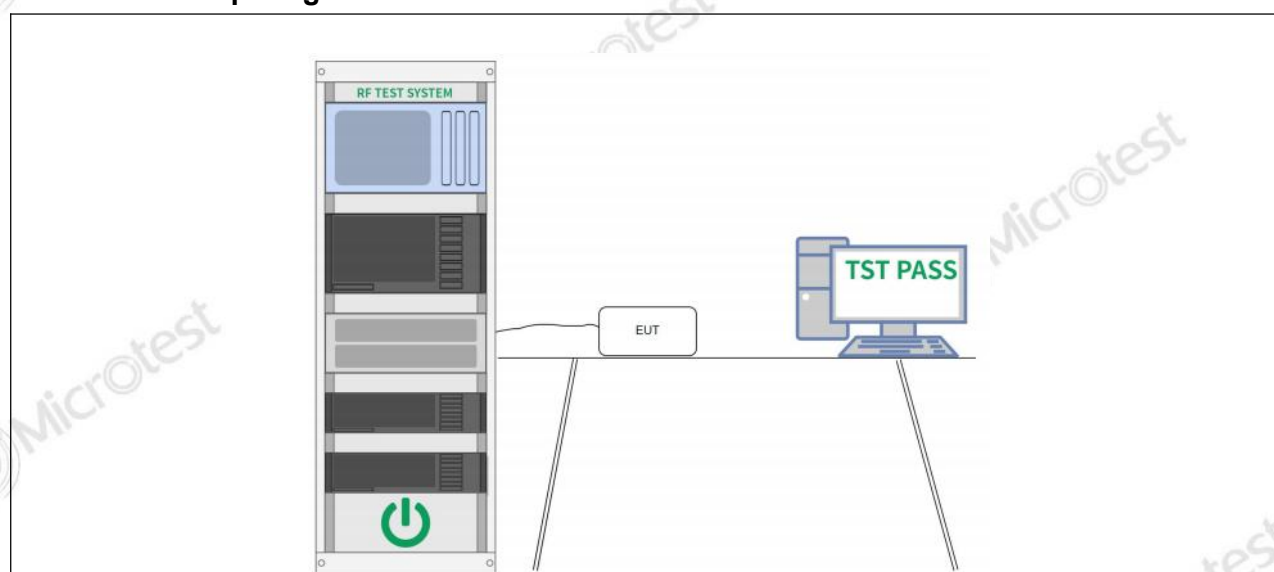
6.4 Channel Separation

Test Requirement:	47 CFR 15.247(a)(1)
Test Limit:	Refer to 47 CFR 15.247(a)(1), 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.
Test Method:	ANSI C63.10-2020+Cor 1-2023, section 7.8.2 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The EUT shall have its hopping function enabled. 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: No faster than coupled (auto) time. e) Detector function: Peak. f) Trace: Max-hold. g) Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

6.4.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	47.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.4.2 Test Setup Diagram:



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6.4.3 Test Data:

Please Refer to Appendix for Details.

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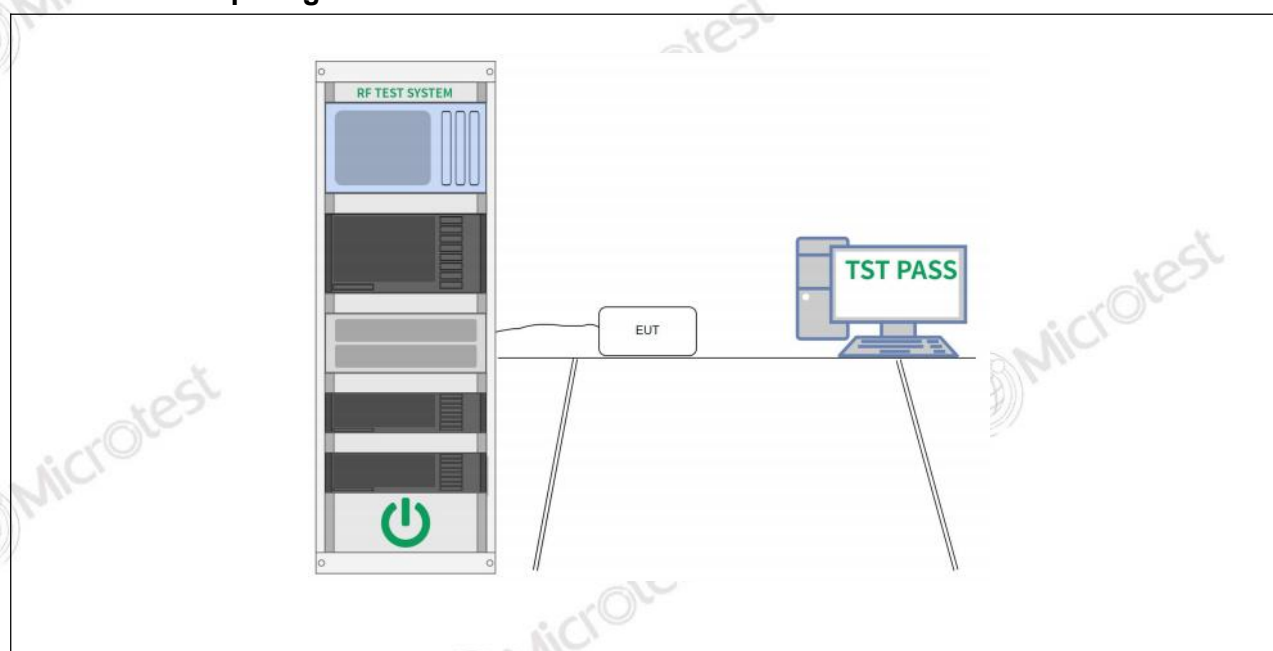
6.5 Number of Hopping Frequencies

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020+Cor 1-2023, section 7.8.3 KDB 558074 D01 15.247 Meas Guidance v05r02

6.5.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	47.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.5.2 Test Setup Diagram:



6.5.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

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6.6 Dwell Time

Test Requirement:	47 CFR 15.247(a)(1)(iii)
Test Limit:	Refer to 47 CFR 15.247(a)(1)(iii), 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. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.
Test Method:	ANSI C63.10-2020+Cor 1-2023, section 7.8.4 KDB 558074 D01 15.247 Meas Guidance v05r02
Procedure:	The dwell time per hop on a channel is the time from the start of the first transmission to the end of the last transmission for that hop. If the device has a single transmission per hop then the dwell time is the duration of that transmission. If the device has a multiple transmissions per hop then the dwell time is measured from the start of the first transmission to the end of the last transmission. The time of occupancy is the total time that the device dwells on a channel over an observation period specified in the regulatory requirement. To determine the time of occupancy the spectrum analyzer will be configured to measure both the dwell time per hop and the number of times the device transmits on a specific channel in a given period. The EUT shall have its hopping function enabled. Compliance with the requirements shall be made with the minimum and with the maximum number of channels enabled. If the dwell time per channel does not vary with the number of channels then compliance with the requirements may be based on the minimum number of channels. If the device supports different dwell times per channel (example Bluetooth devices can dwell on a channel for 1, 3 or 5 time slots) then measurements can be limited to the longest dwell time with the minimum number of channels. Use the following spectrum analyzer settings to determine the dwell time per hop: 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 transmission time per hop. c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this. d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel. e) Detector function: Peak. f) Trace: Clear-write, single sweep. g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

TEST REPORT

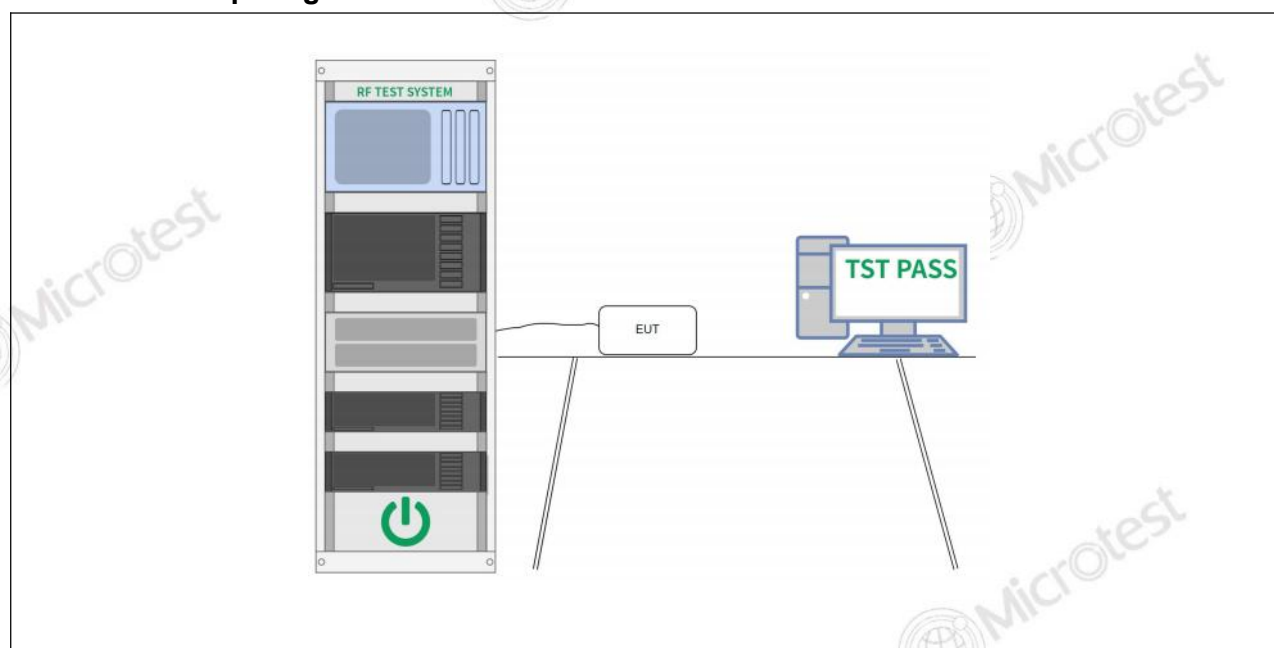
Report No.: MTi260409013-0102E1

	To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time. The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops. The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.
--	---

6.6.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	47.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.6.2 Test Setup Diagram:



6.6.3 Test Data:

Please Refer to Appendix for Details.

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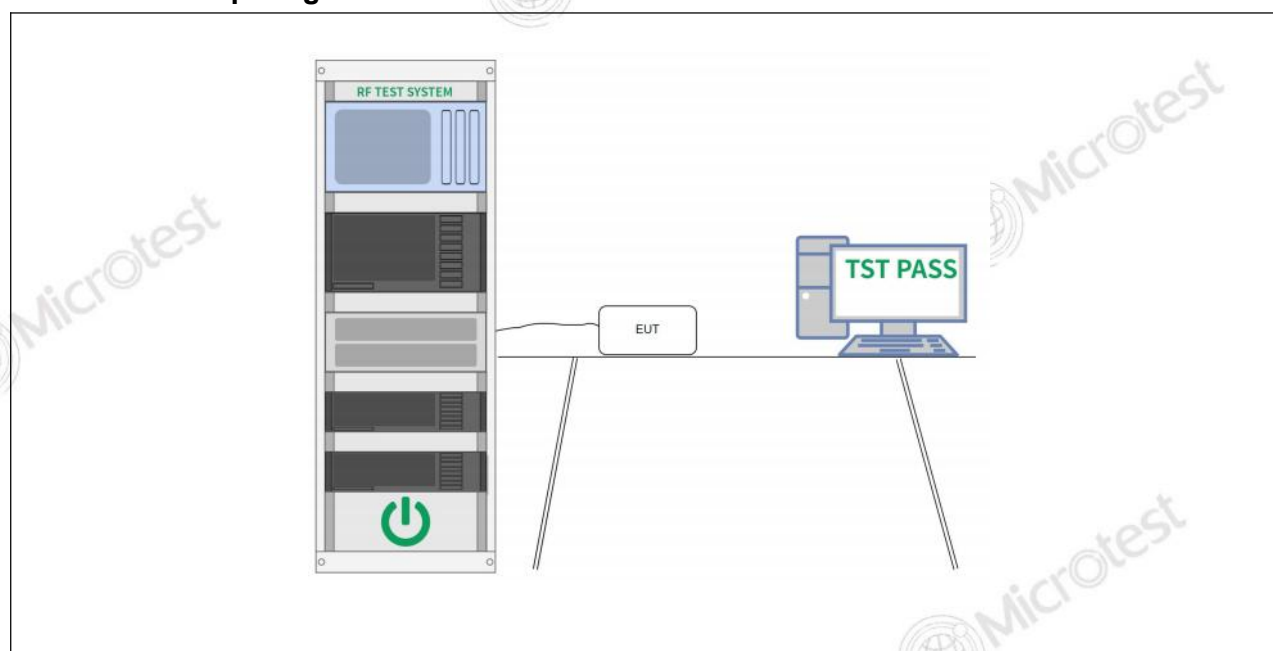
6.7 RF conducted spurious emissions and band edge measurement

Test Requirement:	47 CFR 15.247(d)
Test Limit:	Refer to 47 CFR 15.247(d), 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 20 dB 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 7.8.7 KDB 558074 D01 15.247 Meas Guidance v05r02

6.7.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24.3 °C	Humidity:	47.3 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3				
Final test mode:	Mode1, Mode2, Mode3				

6.7.2 Test Setup Diagram:



6.7.3 Test Data:

Please Refer to Appendix for Details.

TEST REPORT

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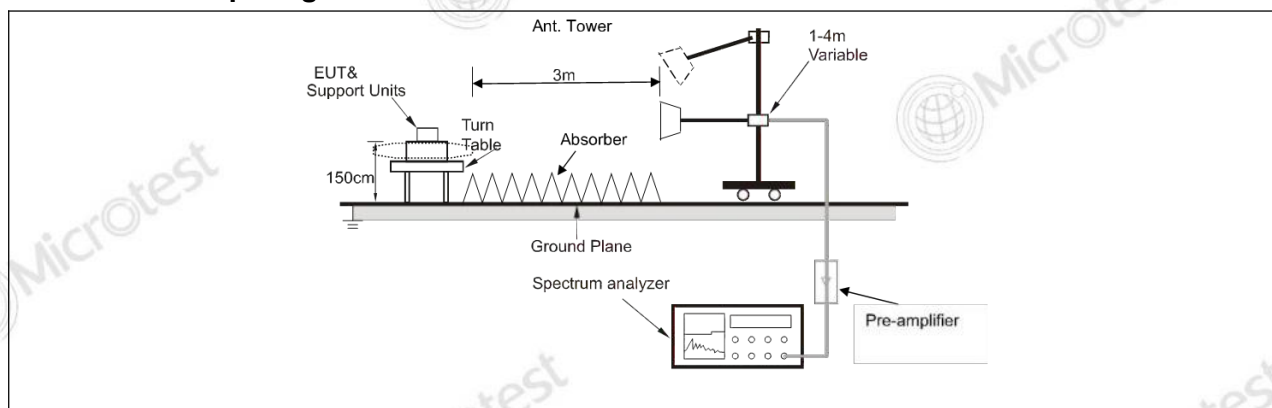
6.8 Band edge emissions (Radiated)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020+Cor 1-2023 section 6.10.5.2		

6.8.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report			
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported.					

6.8.2 Test Setup Diagram:



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6.8.3 Test Data:

Mode3 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	45.96	-4.50	41.46	74.00	-32.54	peak
2		2310.000	38.16	-4.50	33.66	54.00	-20.34	AVG
3		2390.000	46.24	-4.31	41.93	74.00	-32.07	peak
4	*	2390.000	38.03	-4.31	33.72	54.00	-20.28	AVG

Mode3 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2310.000	46.03	-4.50	41.53	74.00	-32.47	peak
2		2310.000	37.82	-4.50	33.32	54.00	-20.68	AVG
3		2390.000	46.24	-4.31	41.93	74.00	-32.07	peak
4	*	2390.000	38.00	-4.31	33.69	54.00	-20.31	AVG

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Mode3 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.16	-4.23	42.93	74.00	-31.07	peak
2	*	2483.500	39.70	-4.23	35.47	54.00	-18.53	AVG
3		2500.000	46.40	-4.15	42.25	74.00	-31.75	peak
4		2500.000	38.38	-4.15	34.23	54.00	-19.77	AVG

Mode3 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		2483.500	47.39	-4.23	43.16	74.00	-30.84	peak
2	*	2483.500	39.66	-4.23	35.43	54.00	-18.57	AVG
3		2500.000	46.34	-4.15	42.19	74.00	-31.81	peak
4		2500.000	38.34	-4.15	34.19	54.00	-19.81	AVG

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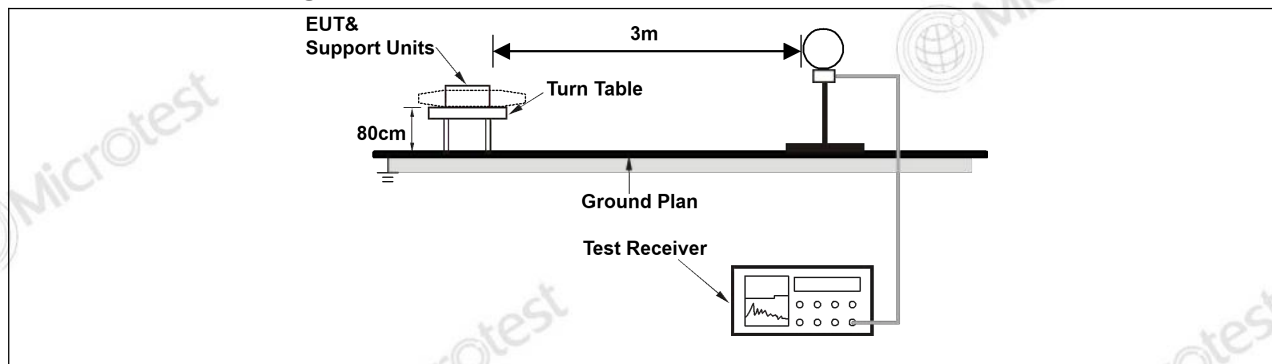
6.9 Radiated emissions (below 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020+Cor 1-2023 section 6.5.4		

6.9.1 E.U.T. Operation:

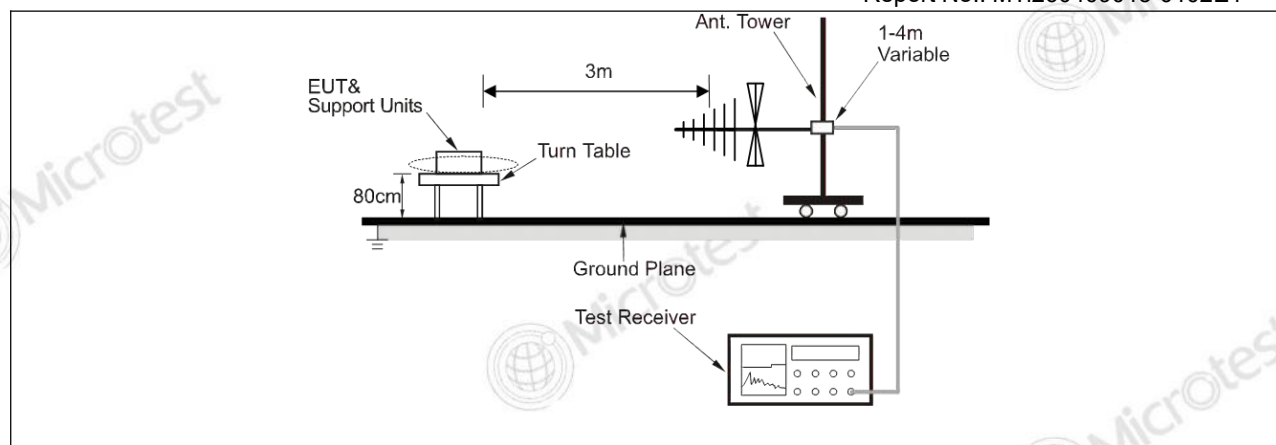
Operating Environment:					
Temperature:	24 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report			
Note: The amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported. There were no emissions found below 30MHz within 20dB of the limit.					

6.9.2 Test Setup Diagram:



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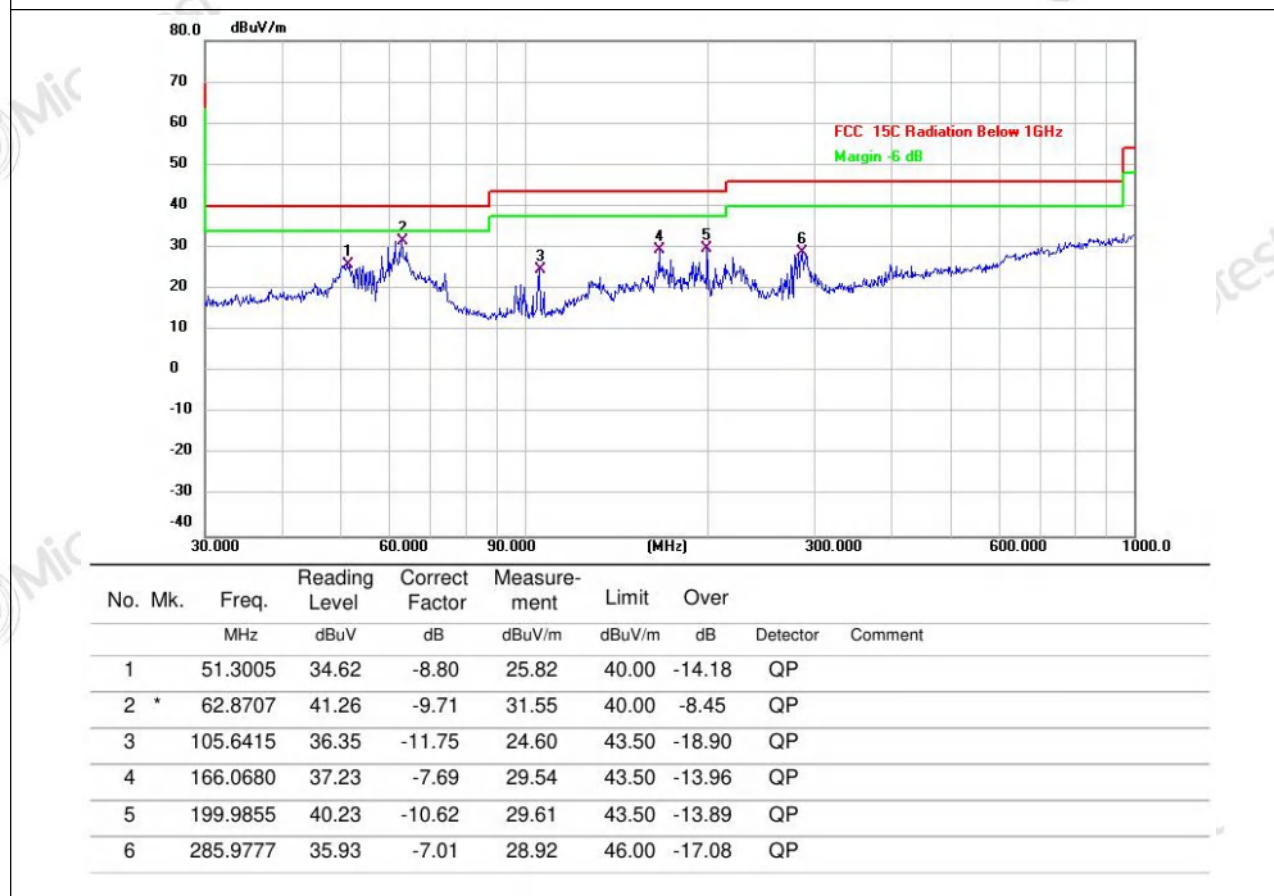


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6.9.3 Test Data:

Mode3 / Polarization: Horizontal / CH: H



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Mode3 / Polarization: Vertical / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		36.0007	41.82	-8.81	33.01	40.00	-6.99	QP	
2	*	50.7637	43.76	-8.76	35.00	40.00	-5.00	QP	
3		61.5618	43.38	-9.54	33.84	40.00	-6.16	QP	
4		131.7577	34.23	-8.88	25.35	43.50	-18.15	QP	
5		219.0753	36.08	-10.60	25.48	46.00	-20.52	QP	
6		284.9767	34.09	-7.03	27.06	46.00	-18.94	QP	

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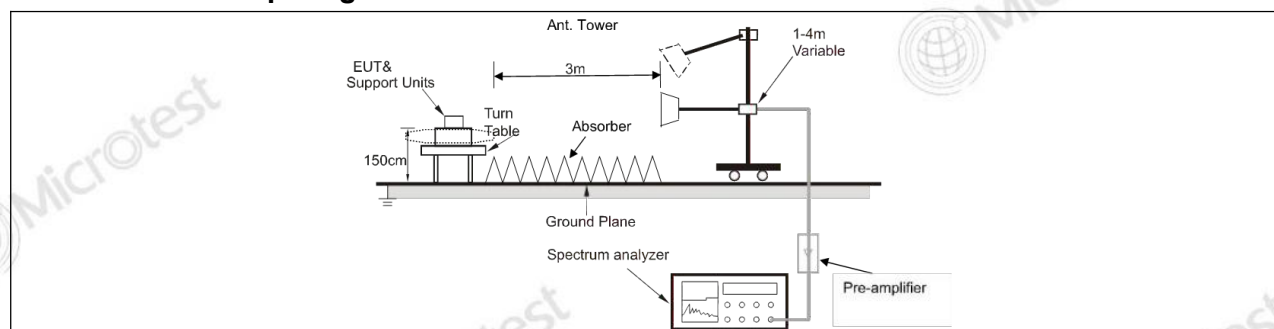
6.10 Radiated emissions (above 1GHz)

Test Requirement:	Refer to 47 CFR 15.247(d), in addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020+Cor 1-2023 section 6.5.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2020+Cor 1-2023 section 6.5.4		

6.10.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24 °C	Humidity:	60 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2, Mode3			
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report			
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.					

6.10.2 Test Setup Diagram:



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6.10.3 Test Data:

Mode3 / Polarization: Horizontal / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	42.52	2.70	45.22	74.00	-28.78	peak
2		4804.000	37.95	2.70	40.65	54.00	-13.35	AVG
3		7206.000	42.44	7.46	49.90	74.00	-24.10	peak
4		7206.000	37.75	7.46	45.21	54.00	-8.79	AVG
5		9608.000	44.28	8.79	53.07	74.00	-20.93	peak
6	*	9608.000	37.80	8.79	46.59	54.00	-7.41	AVG

Mode3 / Polarization: Vertical / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	42.17	2.70	44.87	74.00	-29.13	peak
2		4804.000	37.88	2.70	40.58	54.00	-13.42	AVG
3		7206.000	43.21	7.46	50.67	74.00	-23.33	peak
4		7206.000	38.40	7.46	45.86	54.00	-8.14	AVG
5		9608.000	44.43	8.79	53.22	74.00	-20.78	peak
6	*	9608.000	37.48	8.79	46.27	54.00	-7.73	AVG

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Mode3 / Polarization: Horizontal / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	43.03	2.74	45.77	74.00	-28.23	peak
2		4882.000	37.62	2.74	40.36	54.00	-13.64	AVG
3		7323.000	42.58	7.81	50.39	74.00	-23.61	peak
4		7323.000	36.99	7.81	44.80	54.00	-9.20	AVG
5		9764.000	44.08	9.88	53.96	74.00	-20.04	peak
6	*	9764.000	37.63	9.88	47.51	54.00	-6.49	AVG

Mode3 / Polarization: Vertical / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	42.77	2.74	45.51	74.00	-28.49	peak
2		4882.000	38.52	2.74	41.26	54.00	-12.74	AVG
3		7323.000	43.39	7.81	51.20	74.00	-22.80	peak
4		7323.000	38.77	7.81	46.58	54.00	-7.42	AVG
5		9764.000	43.83	9.88	53.71	74.00	-20.29	peak
6	*	9764.000	37.01	9.88	46.89	54.00	-7.11	AVG

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Mode3 / Polarization: Horizontal / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	43.54	3.10	46.64	74.00	-27.36	peak
2		4960.000	38.63	3.10	41.73	54.00	-12.27	AVG
3		7440.000	42.44	7.65	50.09	74.00	-23.91	peak
4		7440.000	37.53	7.65	45.18	54.00	-8.82	AVG
5		9920.000	44.31	9.23	53.54	74.00	-20.46	peak
6	*	9920.000	37.32	9.23	46.55	54.00	-7.45	AVG

Mode3 / Polarization: Vertical / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	43.40	3.10	46.50	74.00	-27.50	peak
2		4960.000	38.54	3.10	41.64	54.00	-12.36	AVG
3		7440.000	43.02	7.65	50.67	74.00	-23.33	peak
4		7440.000	36.64	7.65	44.29	54.00	-9.71	AVG
5		9920.000	44.63	9.23	53.86	74.00	-20.14	peak
6	*	9920.000	37.12	9.23	46.35	54.00	-7.65	AVG

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Photographs of the test setup

Refer to Appendix - Test Setup Photos

TEST REPORT

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Photographs of the EUT

Refer to Appendix - EUT Photos

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Appendix

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	1.014
		2441	0.987
		2480	0.993
2DH5	Ant1	2402	1.287
		2441	1.287
		2480	1.290
3DH5	Ant1	2402	1.284
		2441	1.296
		2480	1.299

TEST REPORT

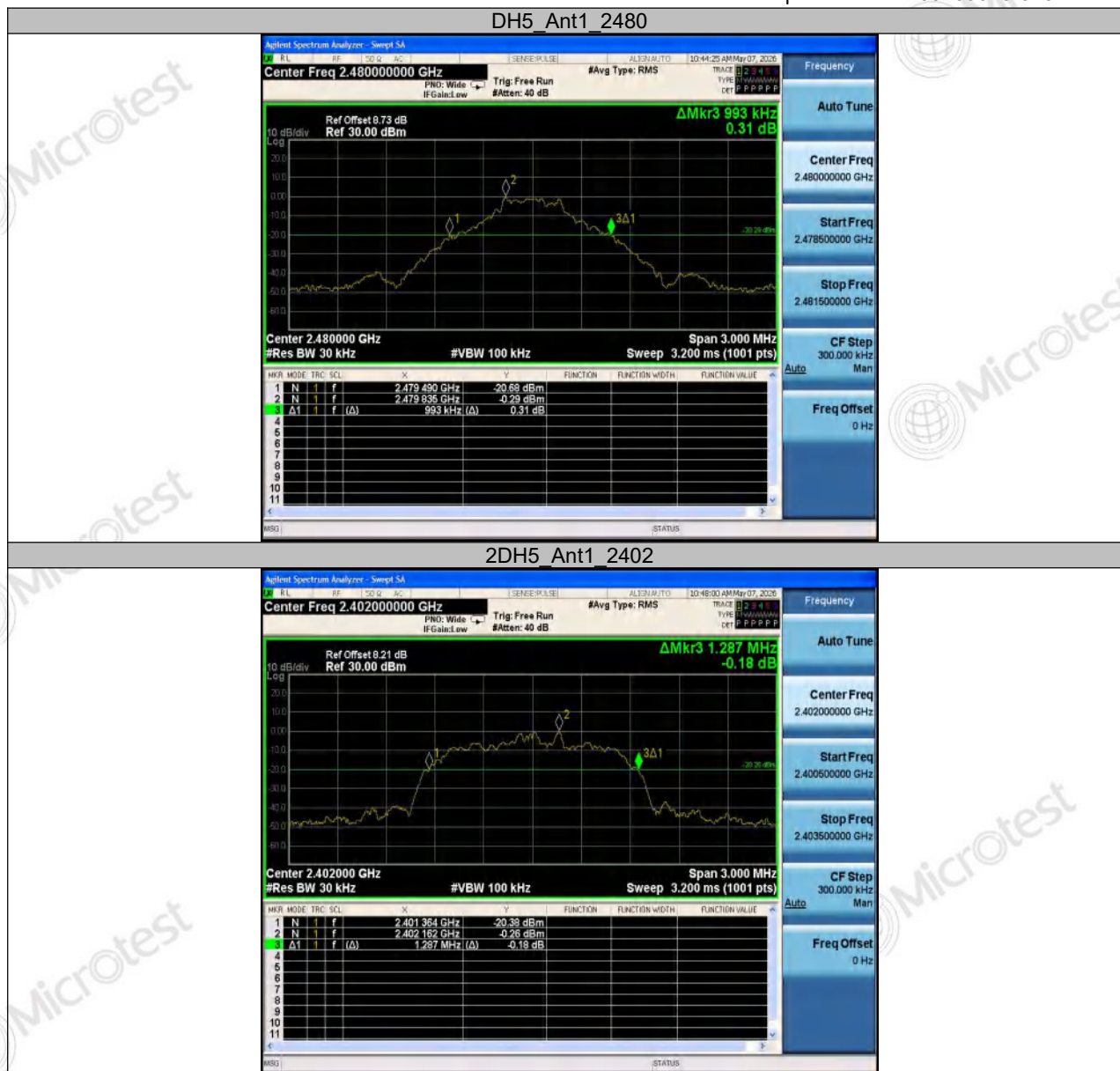
Report No.: MTi260409013-0102E1

Test Graphs



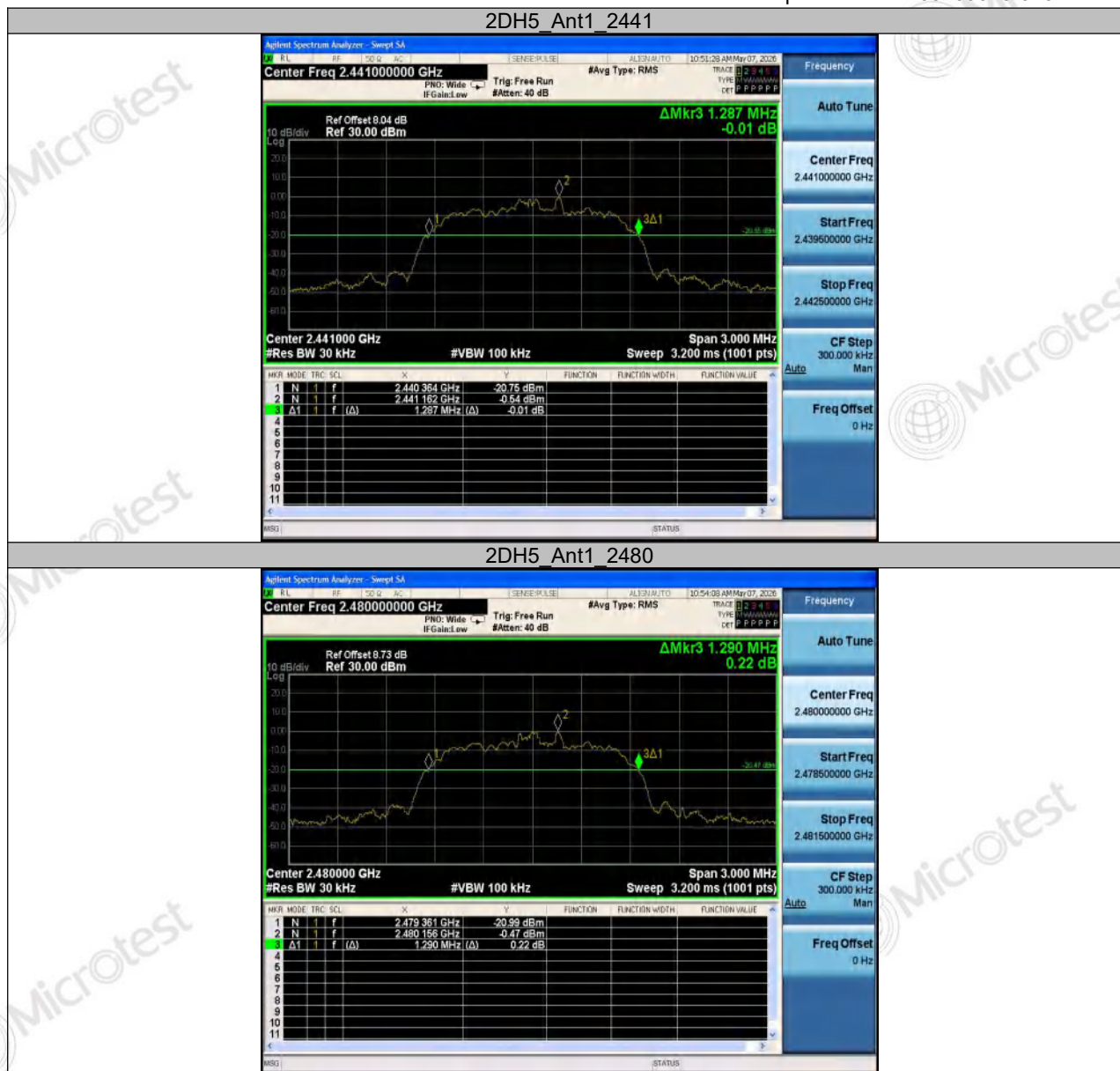
TEST REPORT

Report No.: MTI260409013-0102E1



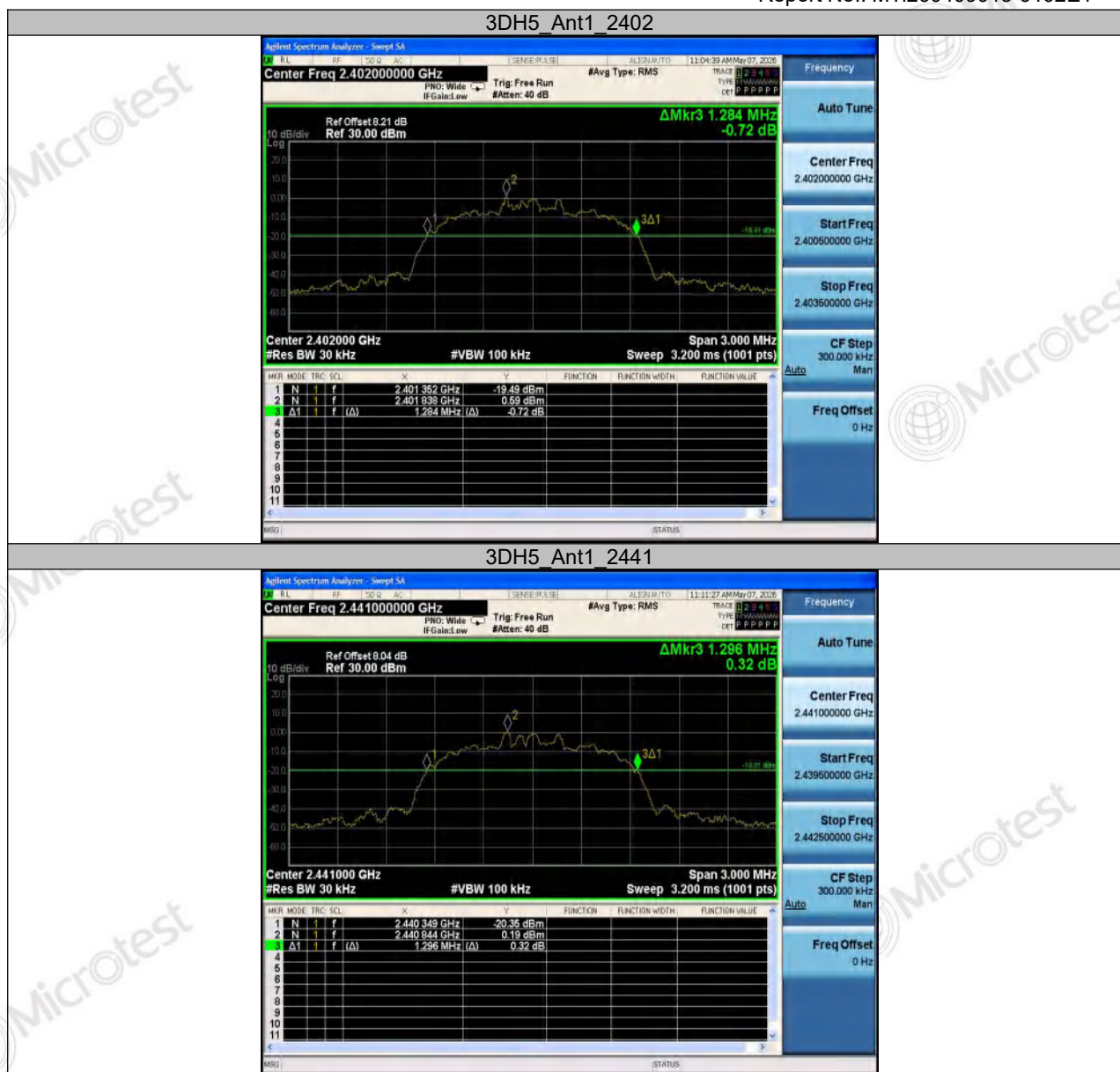
TEST REPORT

Report No.: MTI260409013-0102E1



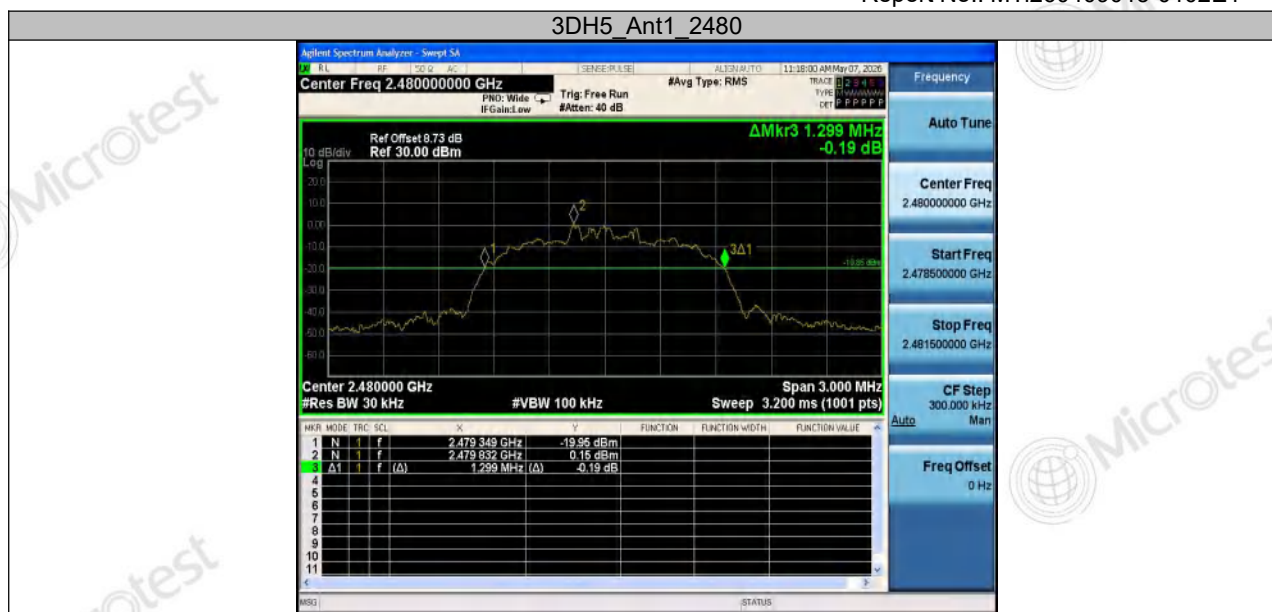
TEST REPORT

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TEST REPORT

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TEST REPORT

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Appendix B: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	1.76	≤20.97	PASS
		2441	1.49	≤20.97	PASS
		2480	1.79	≤20.97	PASS
2DH5	Ant1	2402	3.52	≤20.97	PASS
		2441	3.28	≤20.97	PASS
		2480	3.57	≤20.97	PASS
3DH5	Ant1	2402	4.37	≤20.97	PASS
		2441	4.10	≤20.97	PASS
		2480	4.42	≤20.97	PASS

Test Graphs



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Appendix C: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.996	≥ 0.676	PASS
2DH5	Ant1	Hop	0.998	≥ 0.860	PASS
3DH5	Ant1	Hop	1	≥ 0.866	PASS

TEST REPORT

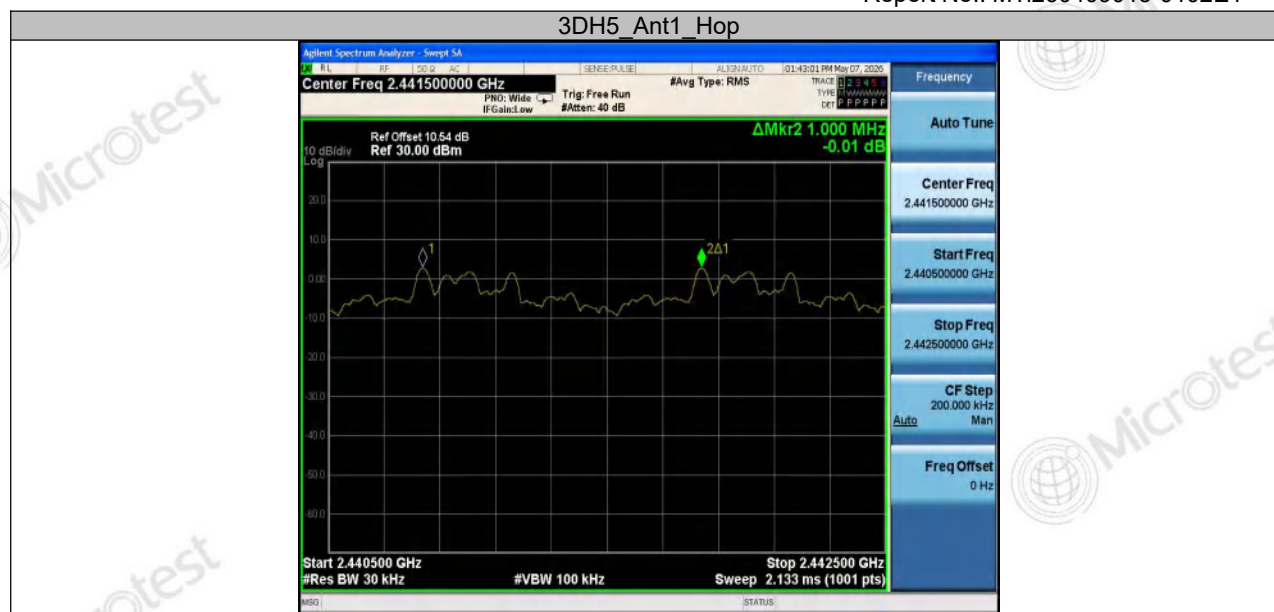
Report No.: MTI260409013-0102E1

Test Graphs



TEST REPORT

Report No.: MTi260409013-0102E1



TEST REPORT

Report No.: MTi260409013-0102E1

Appendix D: Time of occupancy

Test Result

Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	Hops in 31.6s [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.377	319	0.12	≤0.4	PASS
DH3	Ant1	Hop	0.385	155	0.06	≤0.4	PASS
DH5	Ant1	Hop	2.882	109	0.314	≤0.4	PASS
2DH1	Ant1	Hop	0.386	316	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.639	151	0.247	≤0.4	PASS
2DH5	Ant1	Hop	2.887	114	0.329	≤0.4	PASS
3DH1	Ant1	Hop	0.386	315	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.638	163	0.267	≤0.4	PASS
3DH5	Ant1	Hop	2.888	113	0.326	≤0.4	PASS

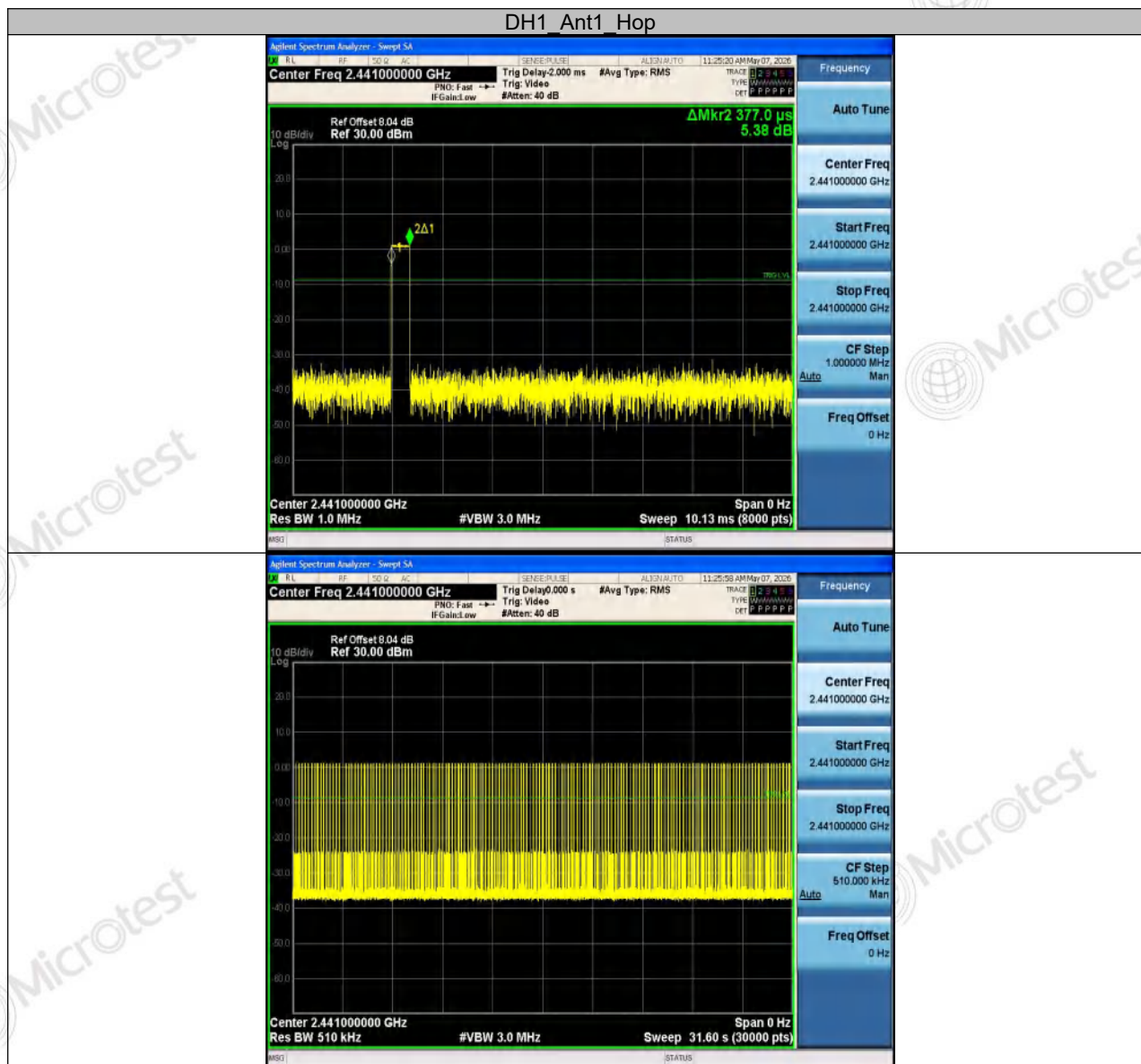
Notes:

1. Period time = $0.4s * 79 = 31.6s$
2. Result (Time of occupancy) = BurstWidth[ms] * Hops in 31.6s [Num]

TEST REPORT

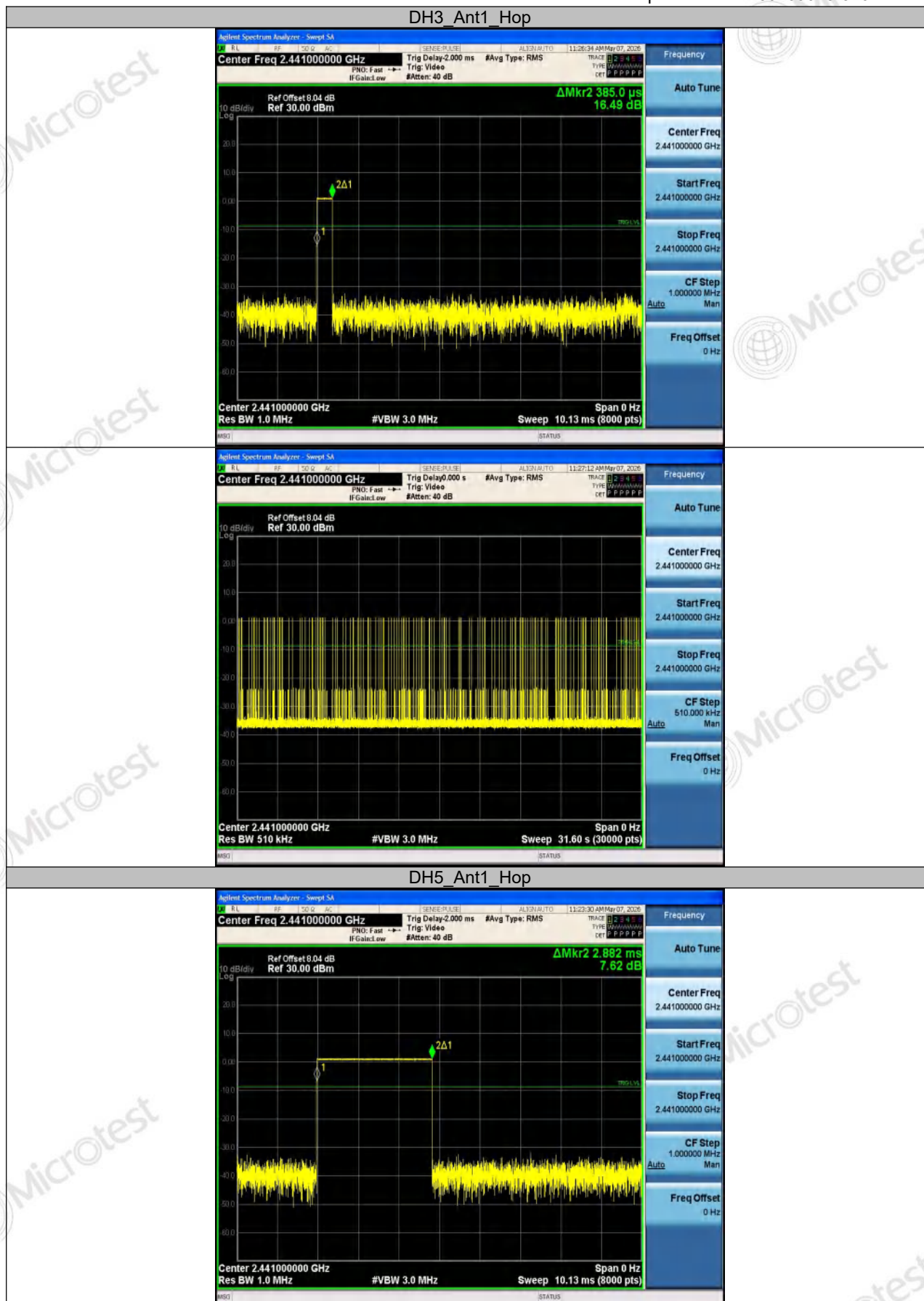
Report No.: MTi260409013-0102E1

Test Graphs



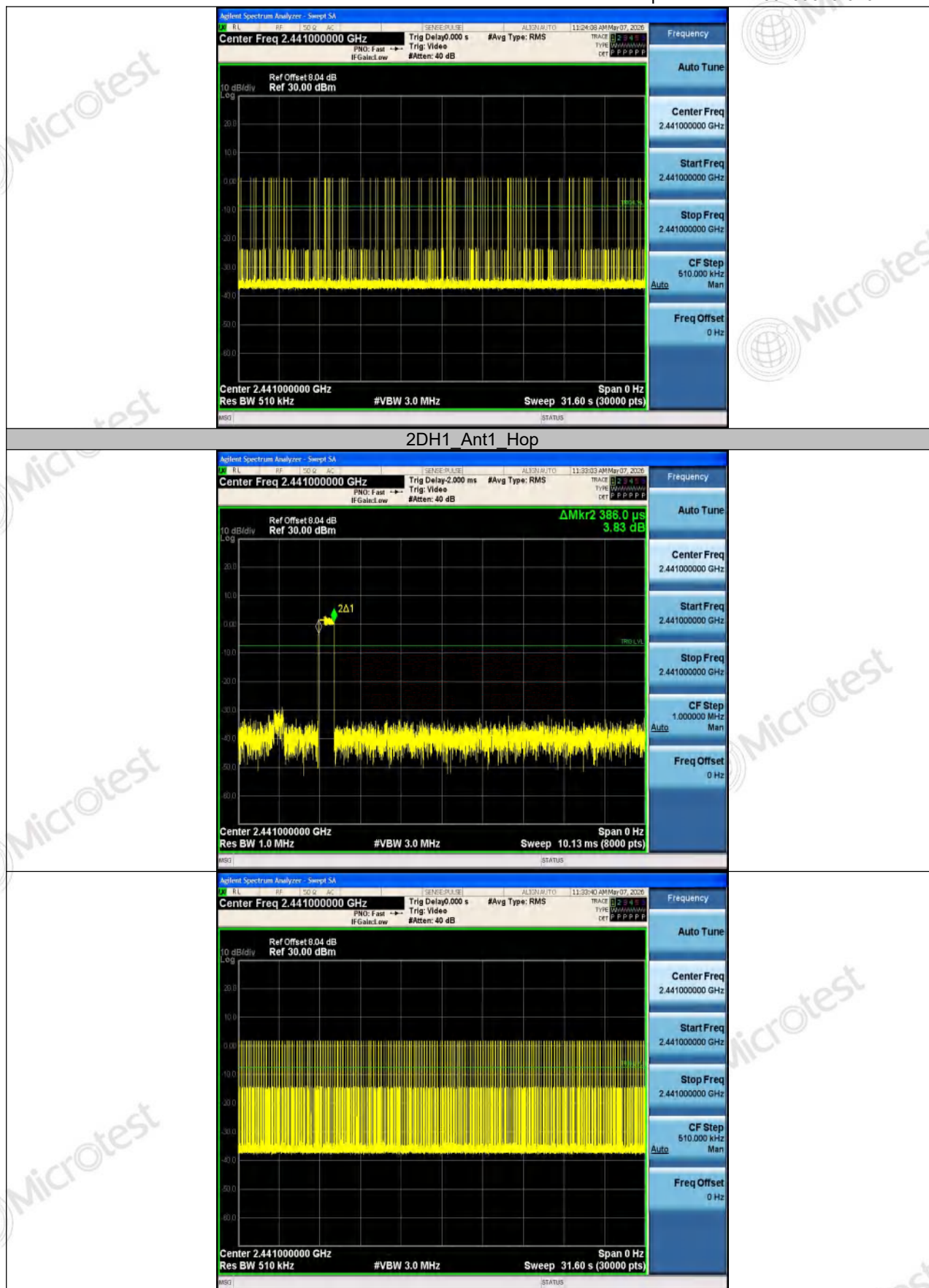
TEST REPORT

Report No.: MTI260409013-0102E1



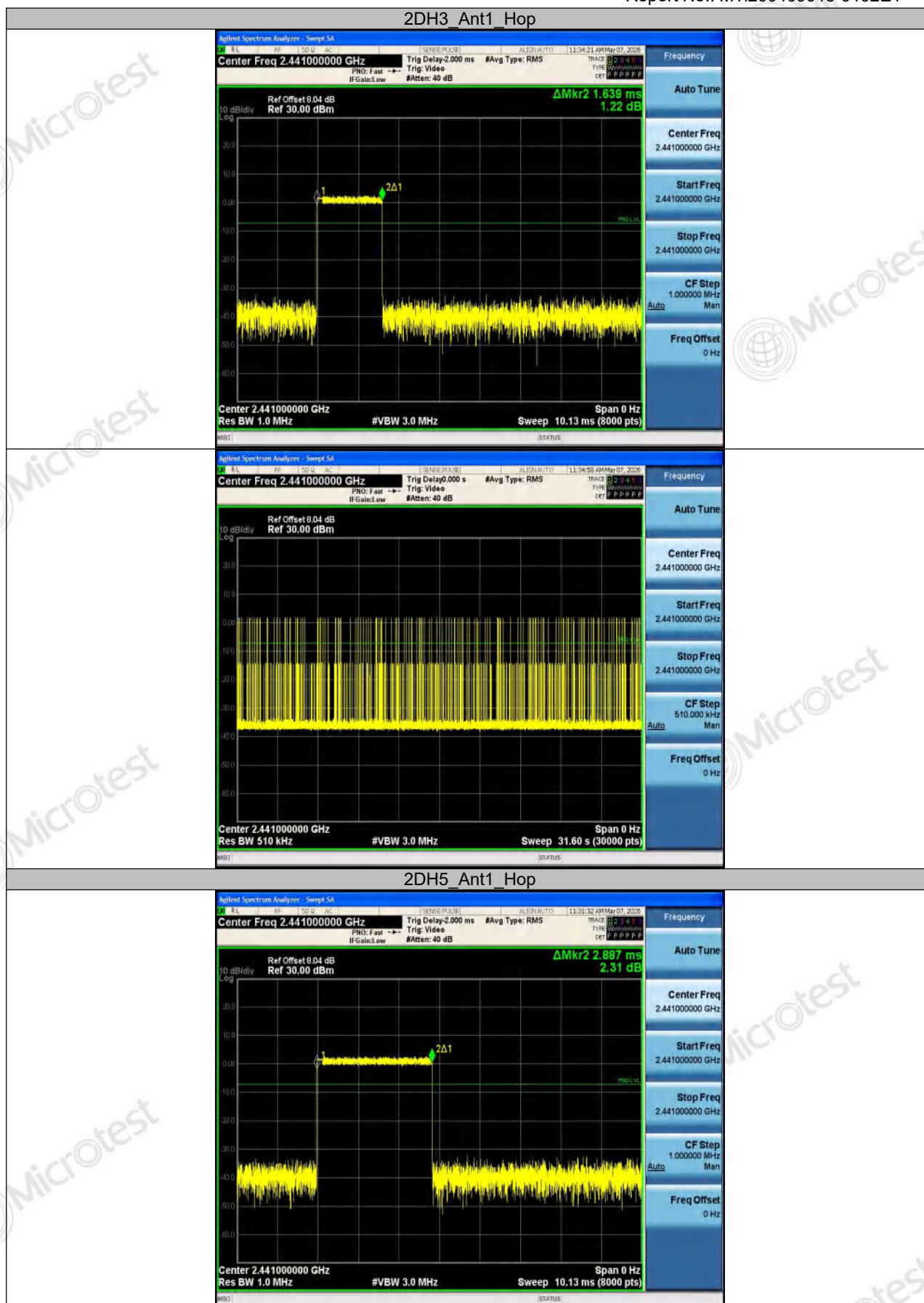
TEST REPORT

Report No.: MTi260409013-0102E1



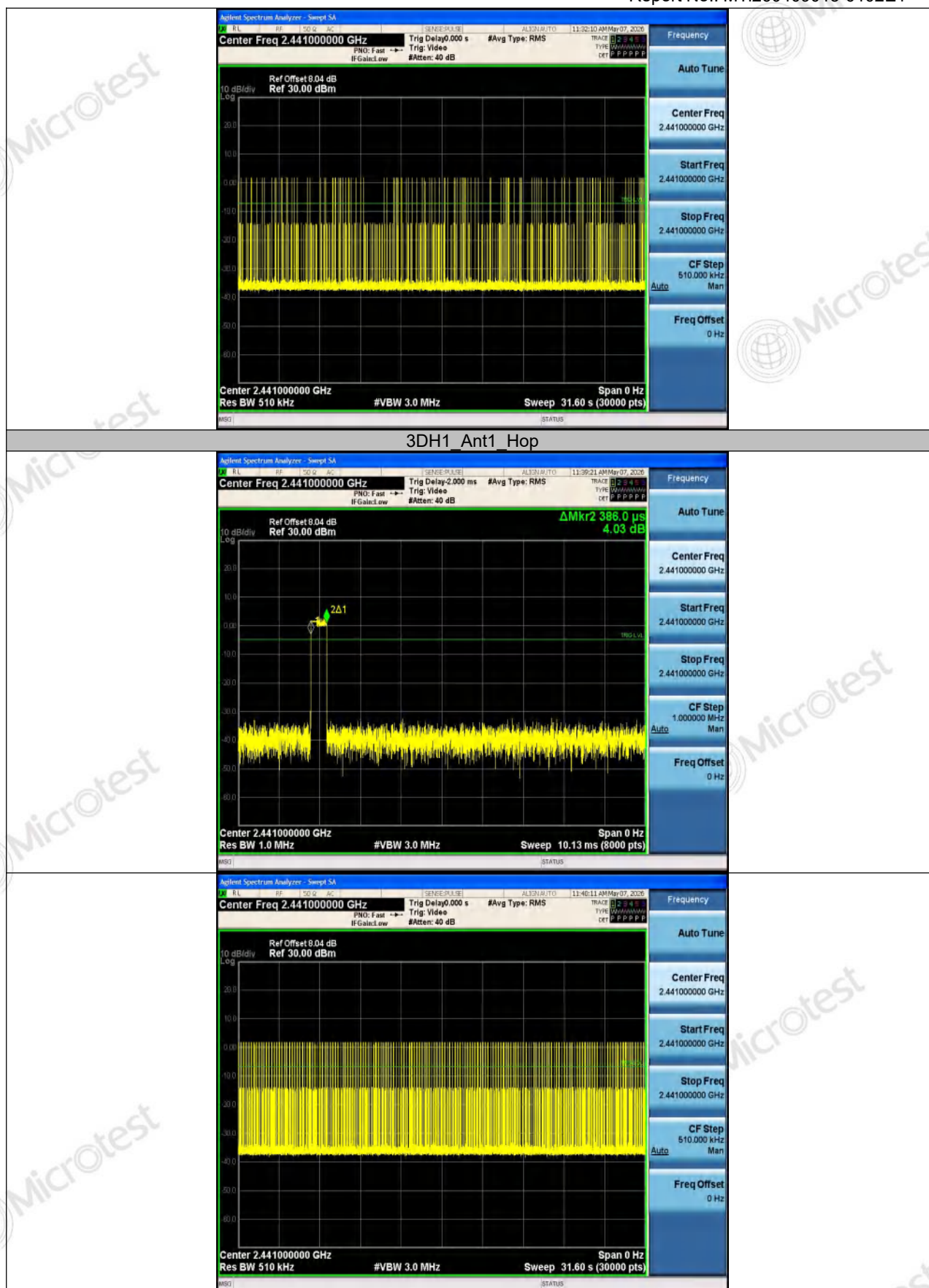
TEST REPORT

Report No.: MTi260409013-0102E1



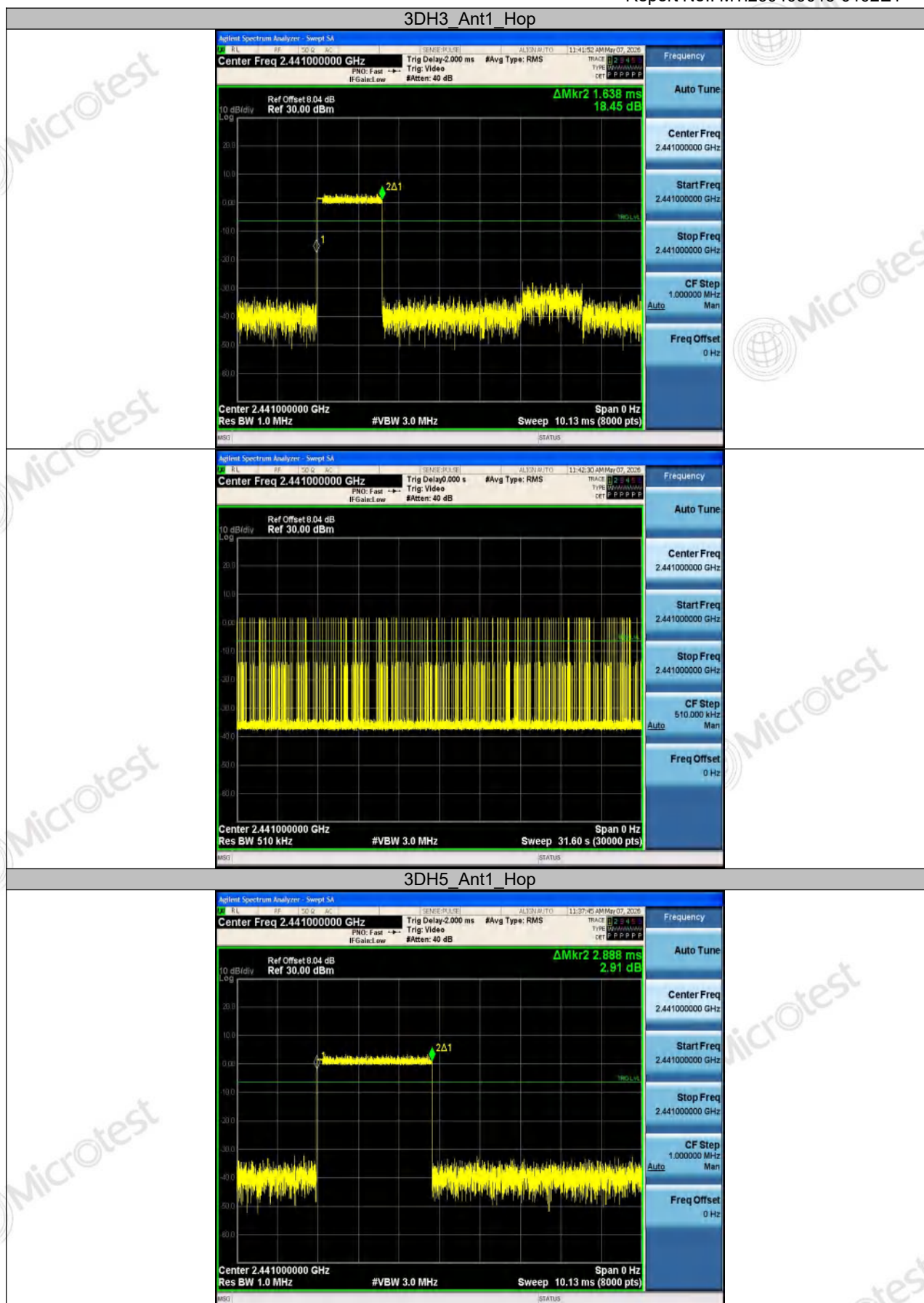
TEST REPORT

Report No.: MTi260409013-0102E1



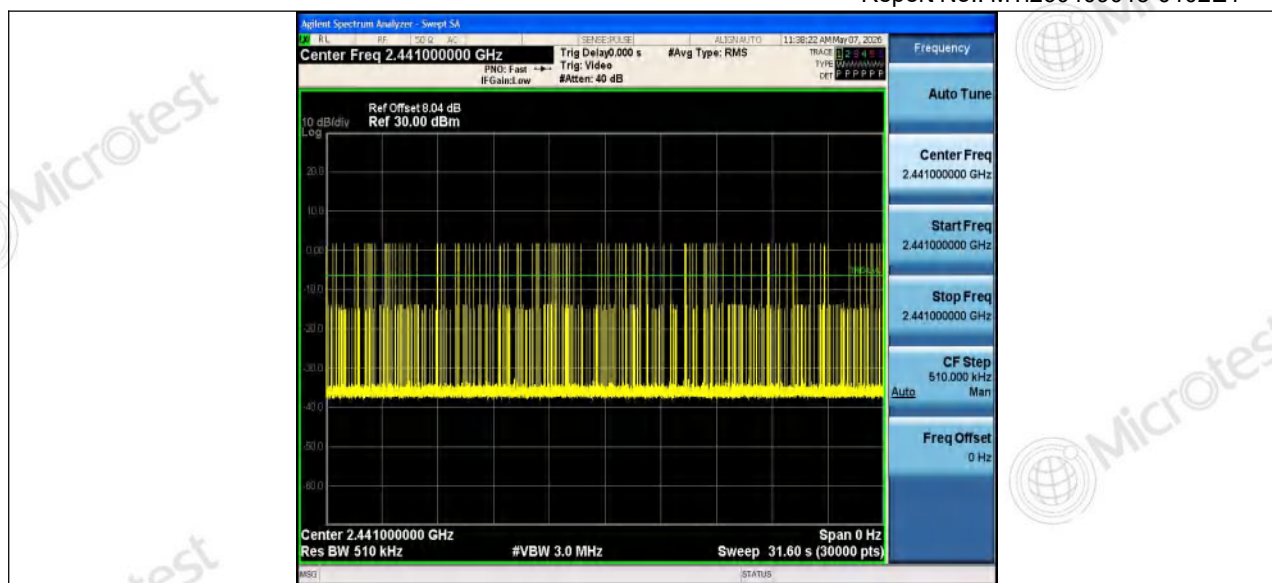
TEST REPORT

Report No.: MTi260409013-0102E1



TEST REPORT

Report No.: MTi260409013-0102E1



TEST REPORT

Report No.: MTi260409013-0102E1

Appendix E: Number of hopping channels

Test Result

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

TEST REPORT

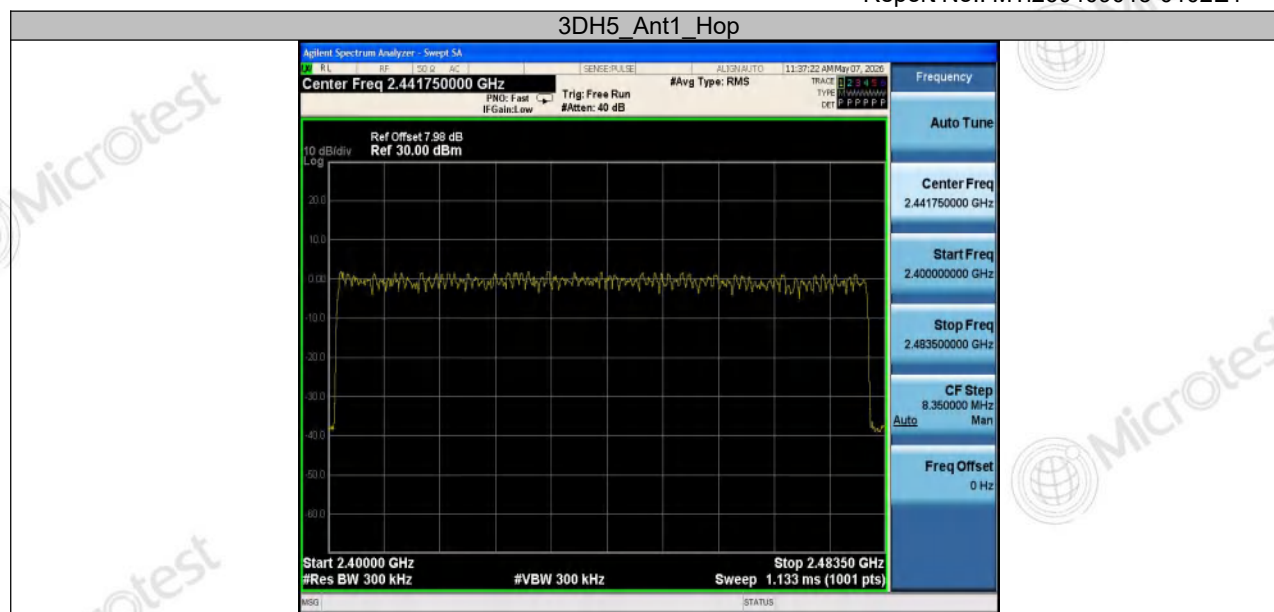
Report No.: MTi260409013-0102E1

Test Graphs



TEST REPORT

Report No.: MTi260409013-0102E1

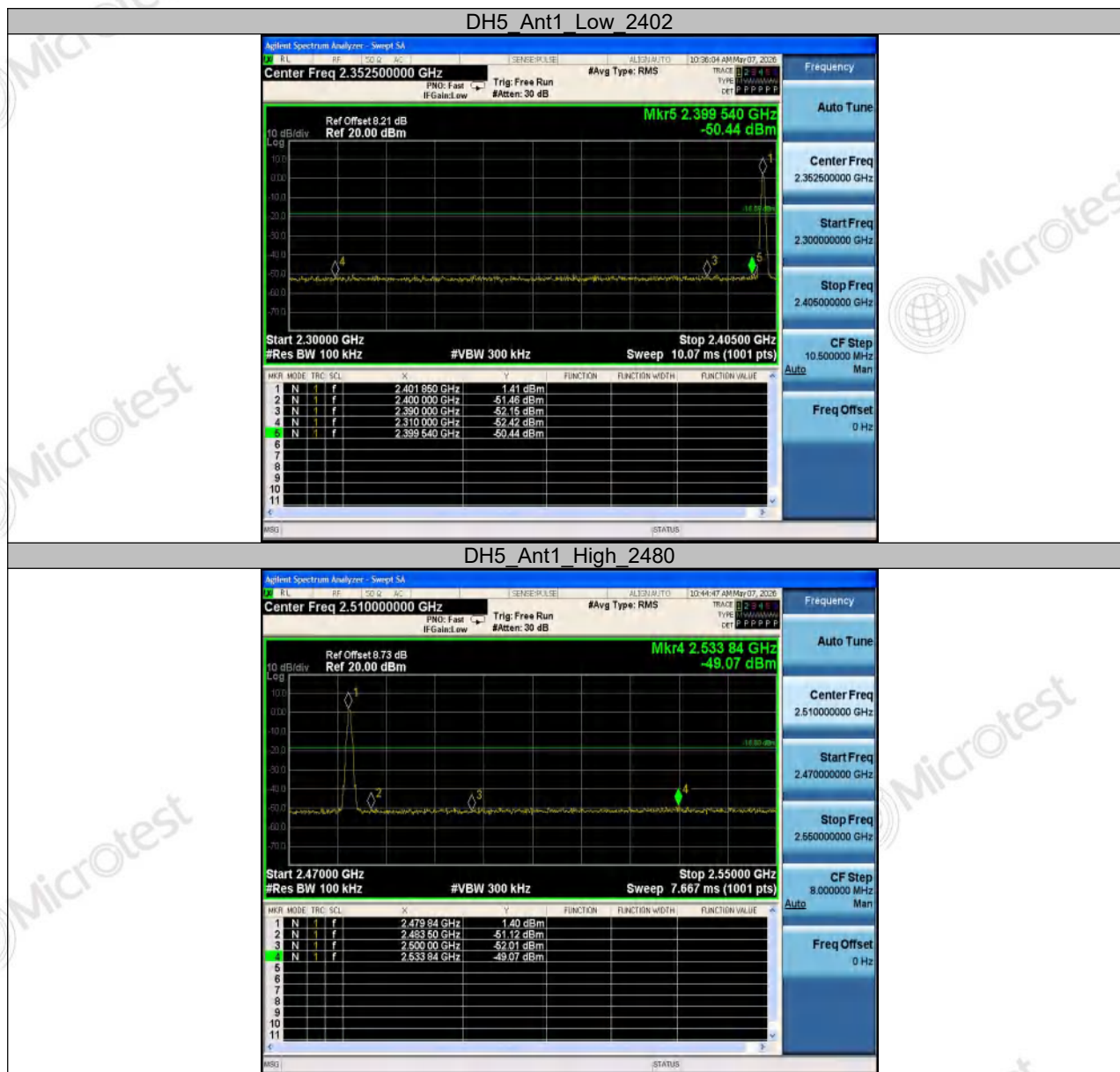


TEST REPORT

Report No.: MTi260409013-0102E1

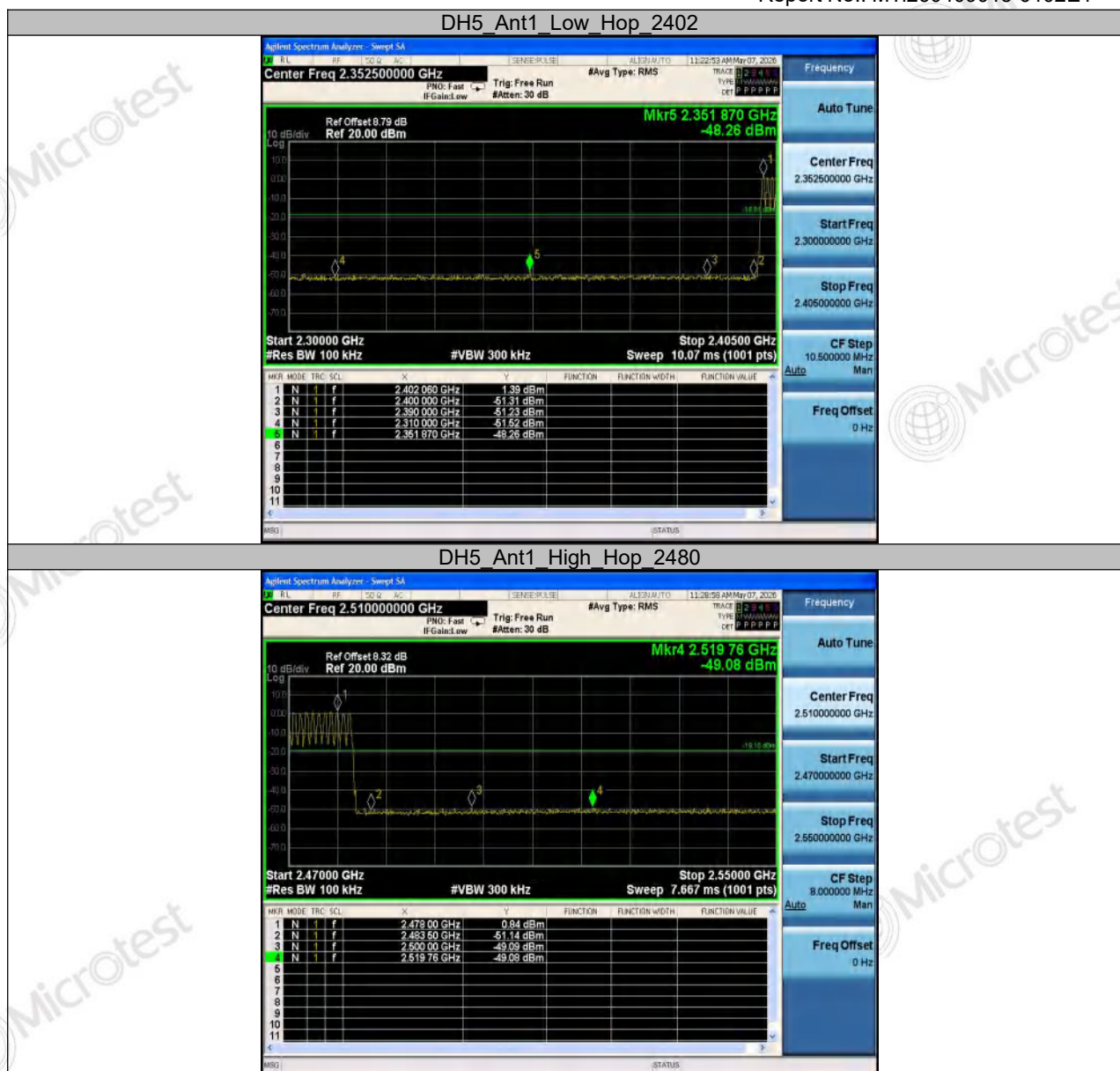
Appendix F: Band edge measurements

Test Graphs



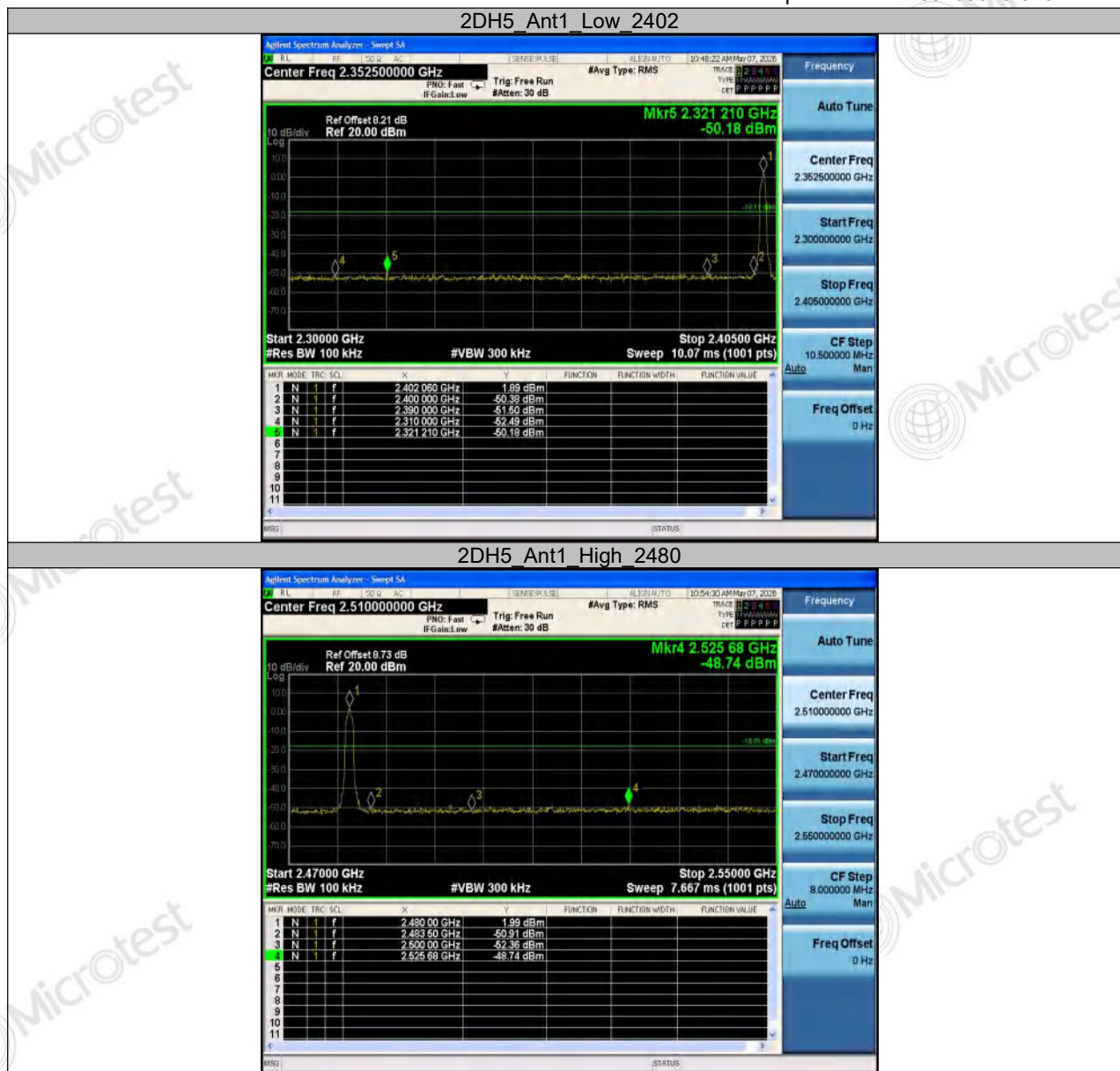
TEST REPORT

Report No.: MTI260409013-0102E1



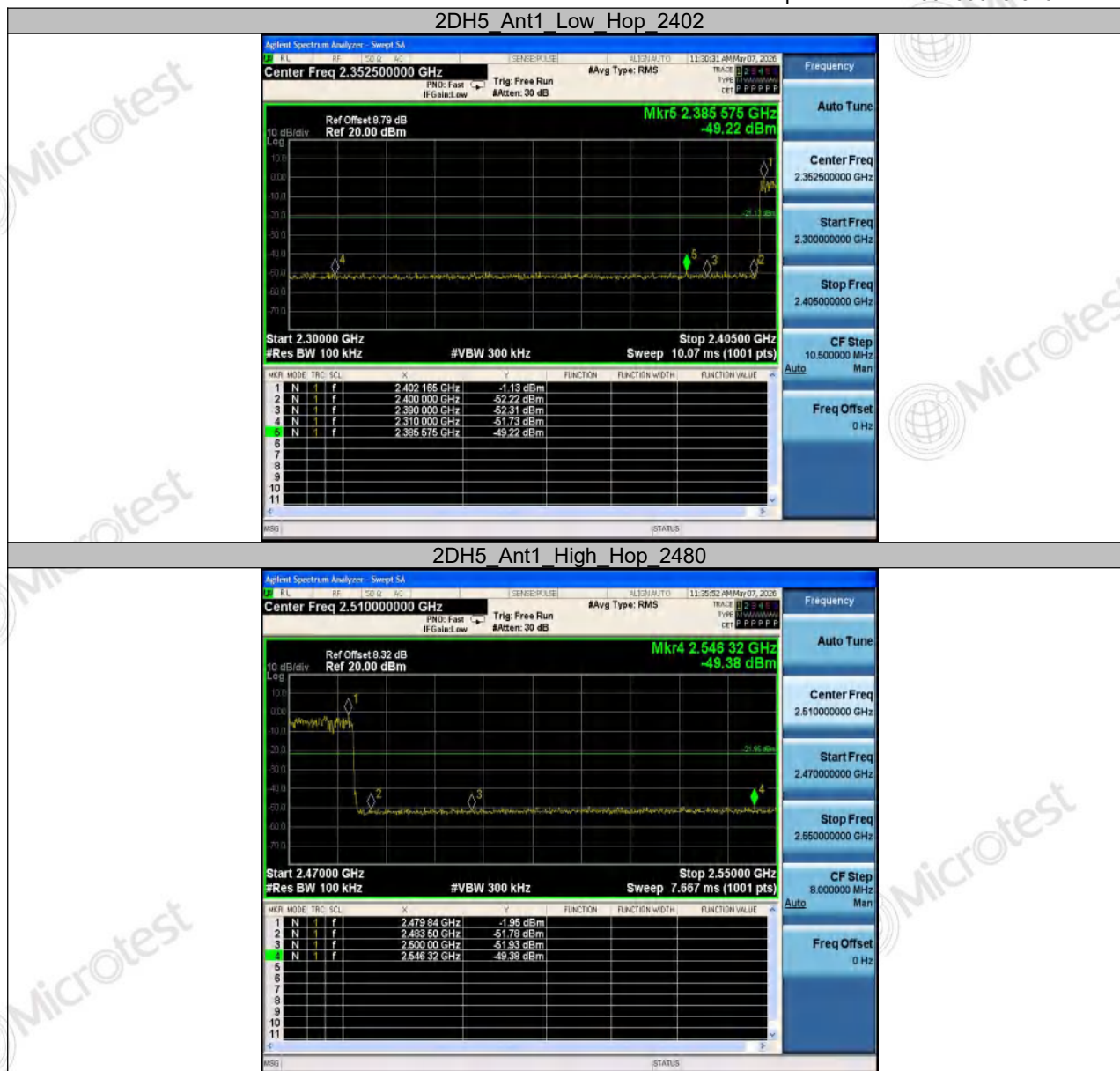
TEST REPORT

Report No.: MTI260409013-0102E1



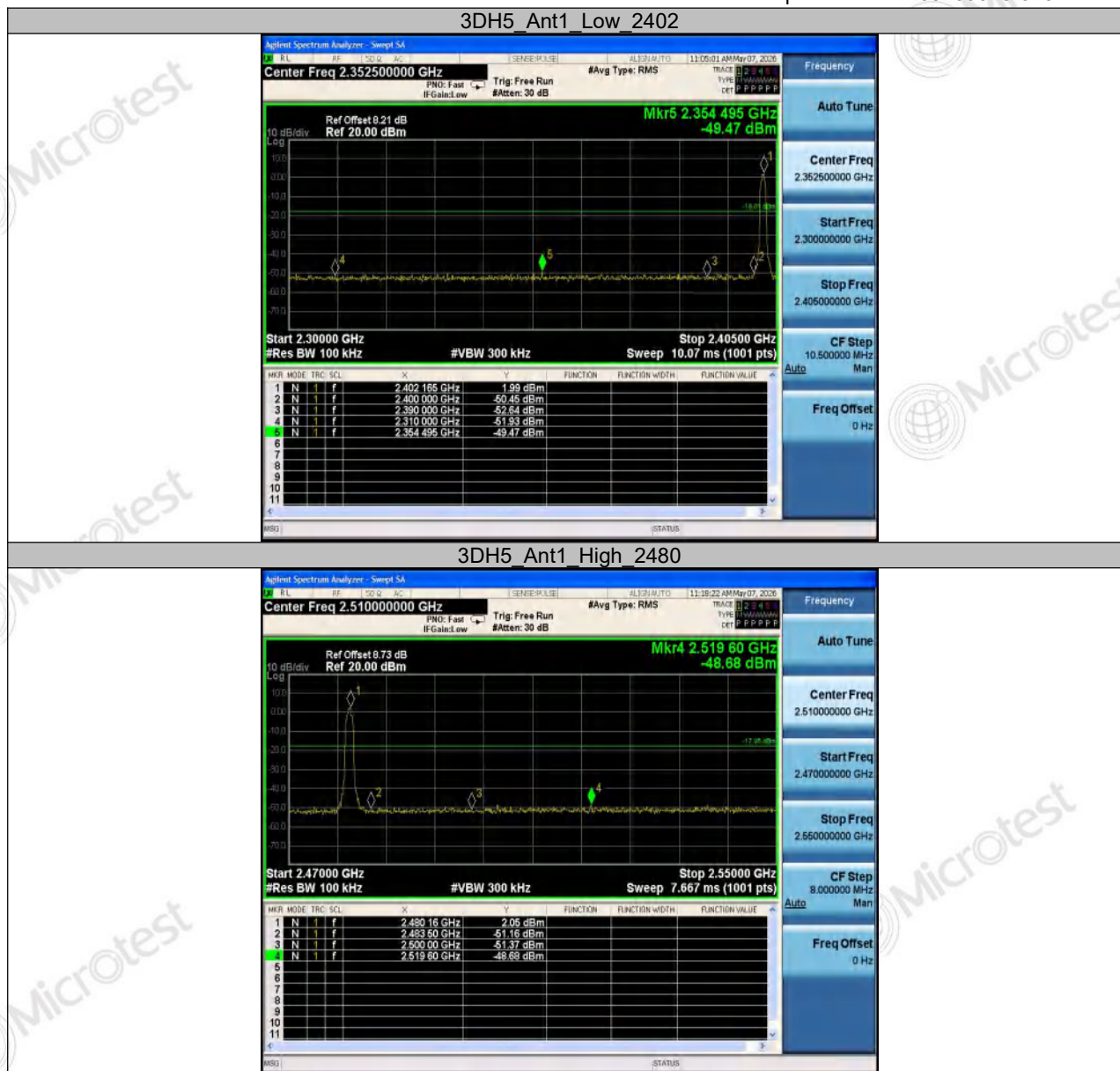
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Report No.: MTI260409013-0102E1



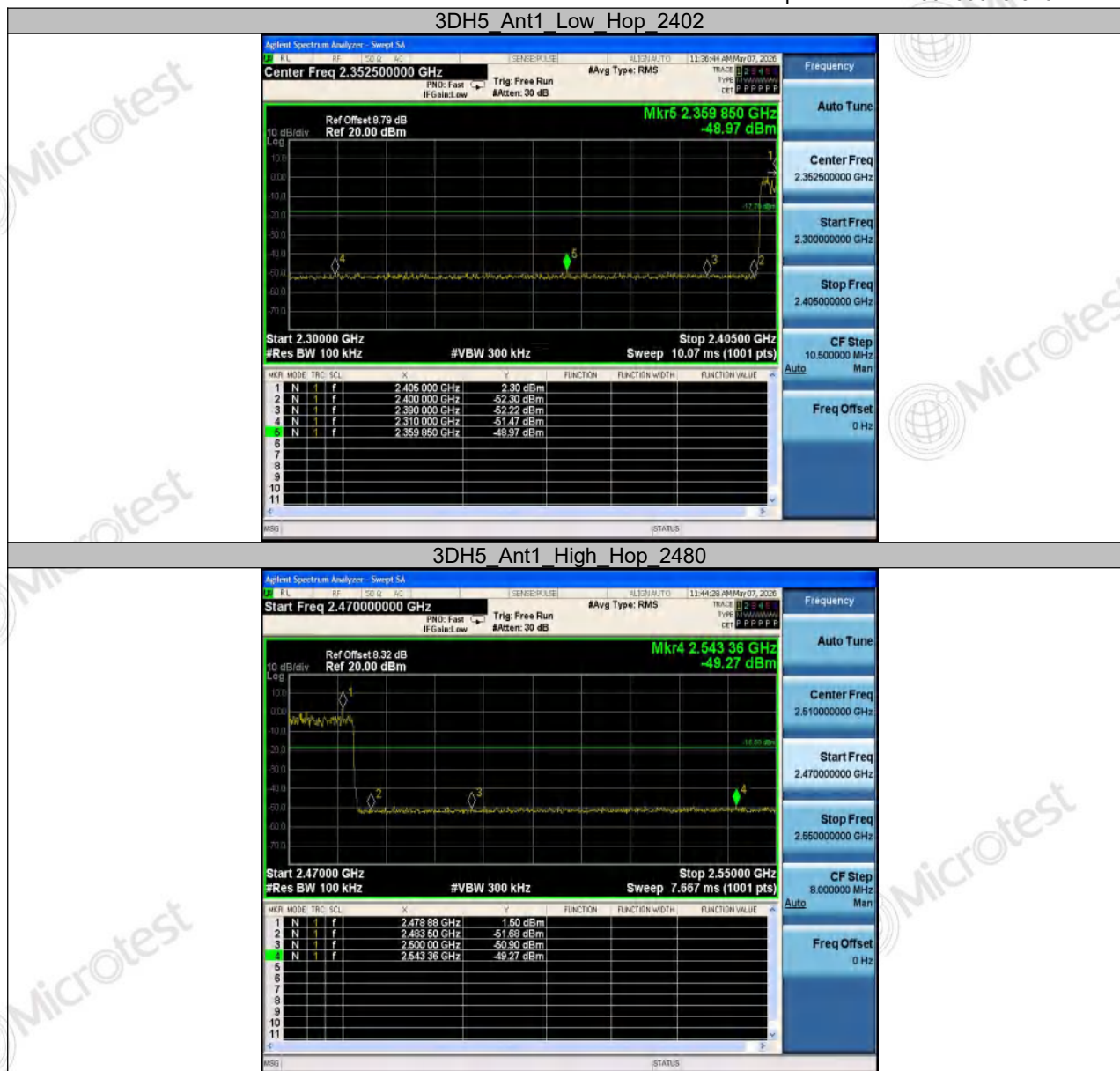
TEST REPORT

Report No.: MTI260409013-0102E1



TEST REPORT

Report No.: MTI260409013-0102E1



TEST REPORT

Report No.: MTI260409013-0102E1

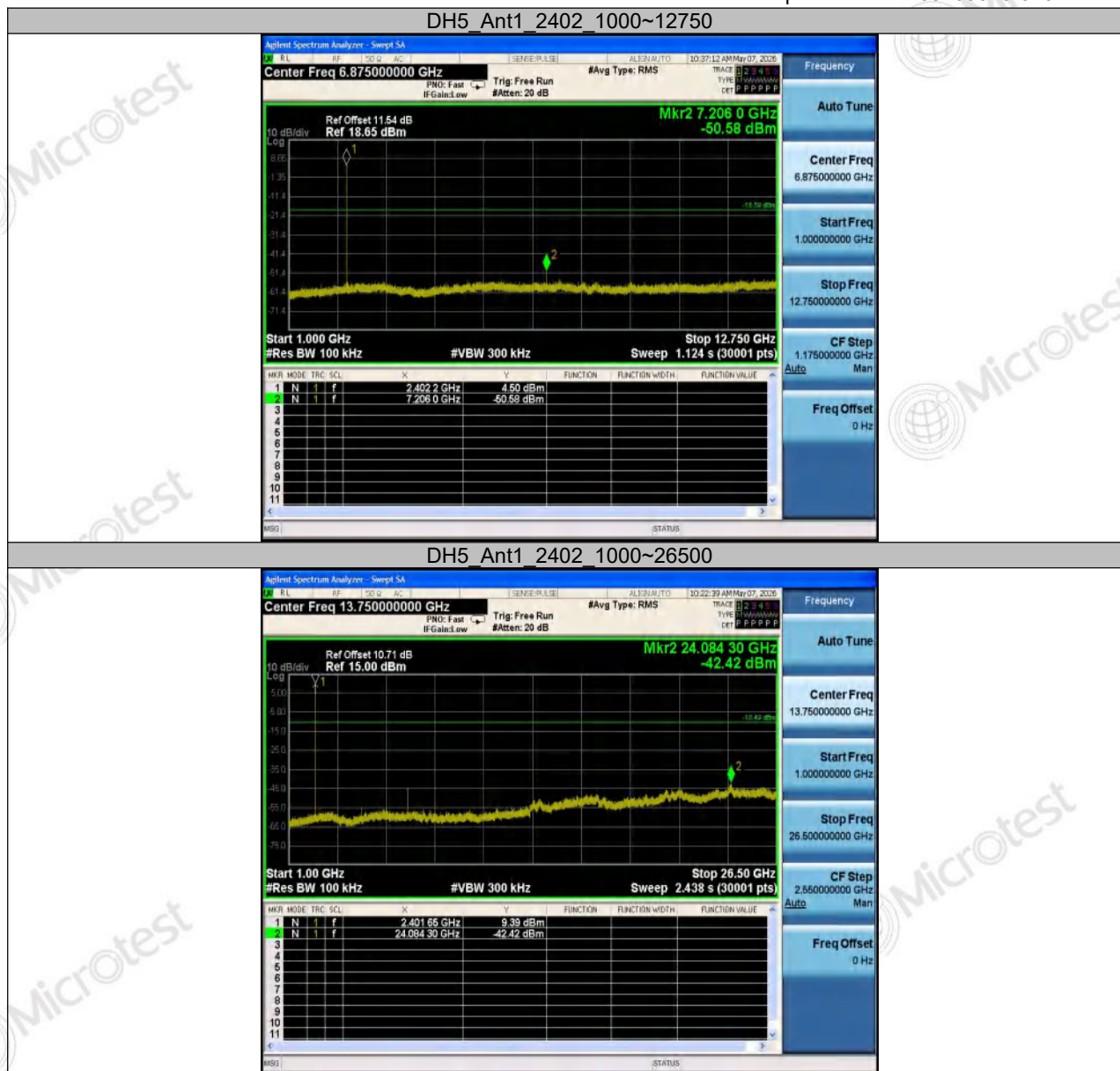
Appendix G: Conducted Spurious Emission

Test Graphs



TEST REPORT

Report No.: MTI260409013-0102E1



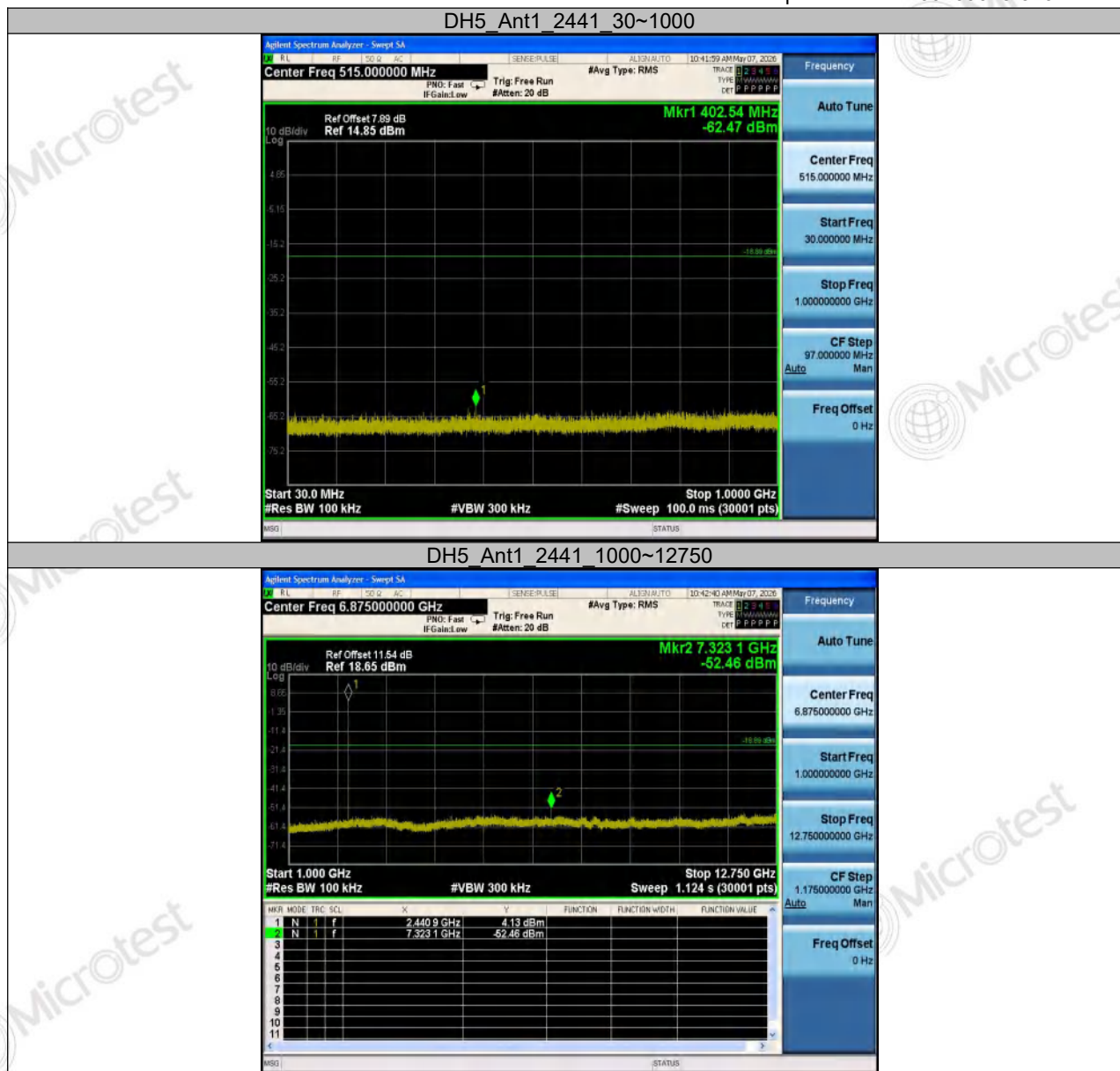
TEST REPORT

Report No.: MTi260409013-0102E1



TEST REPORT

Report No.: MTI260409013-0102E1



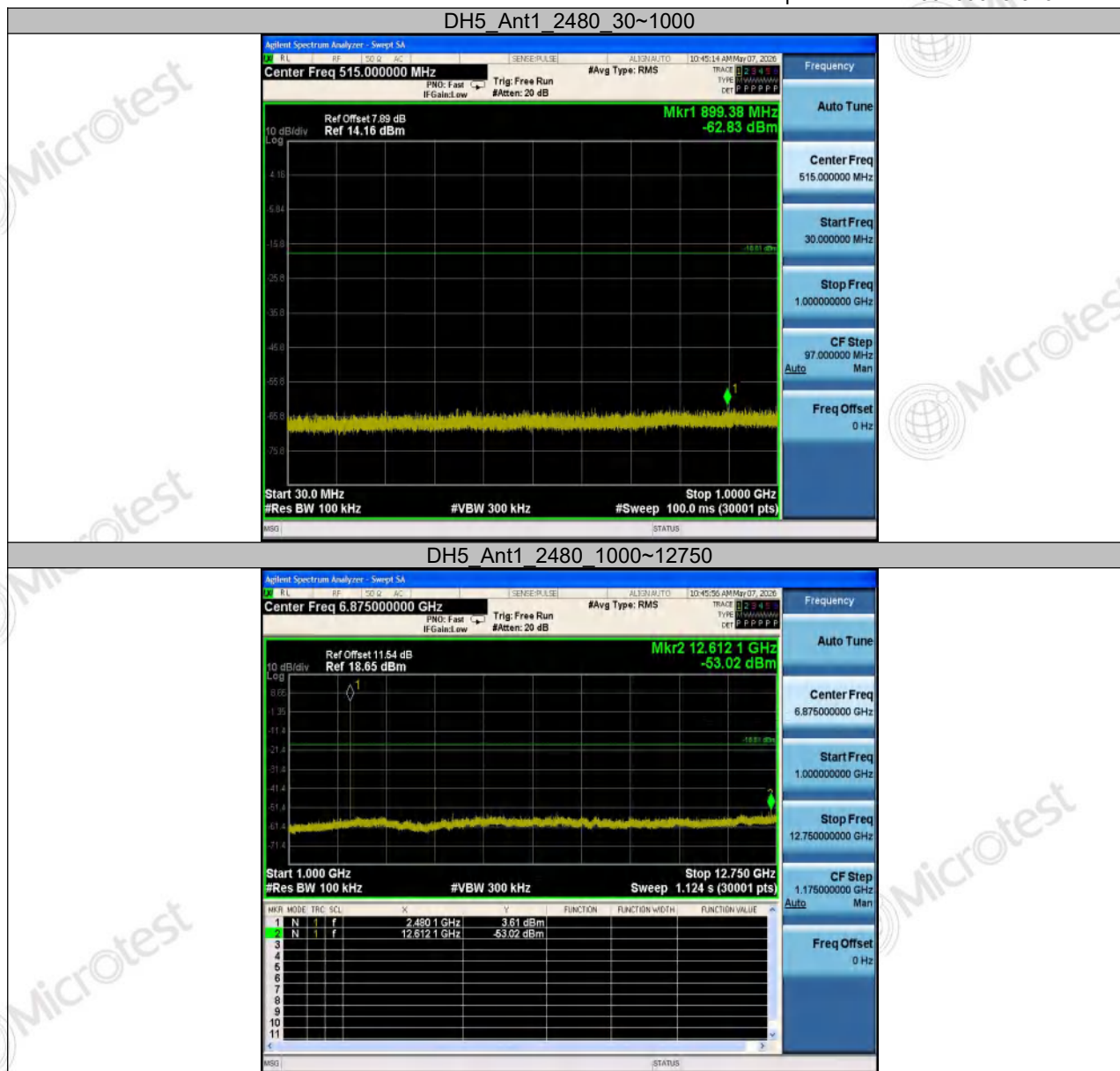
TEST REPORT

Report No.: MTi260409013-0102E1



TEST REPORT

Report No.: MTI260409013-0102E1



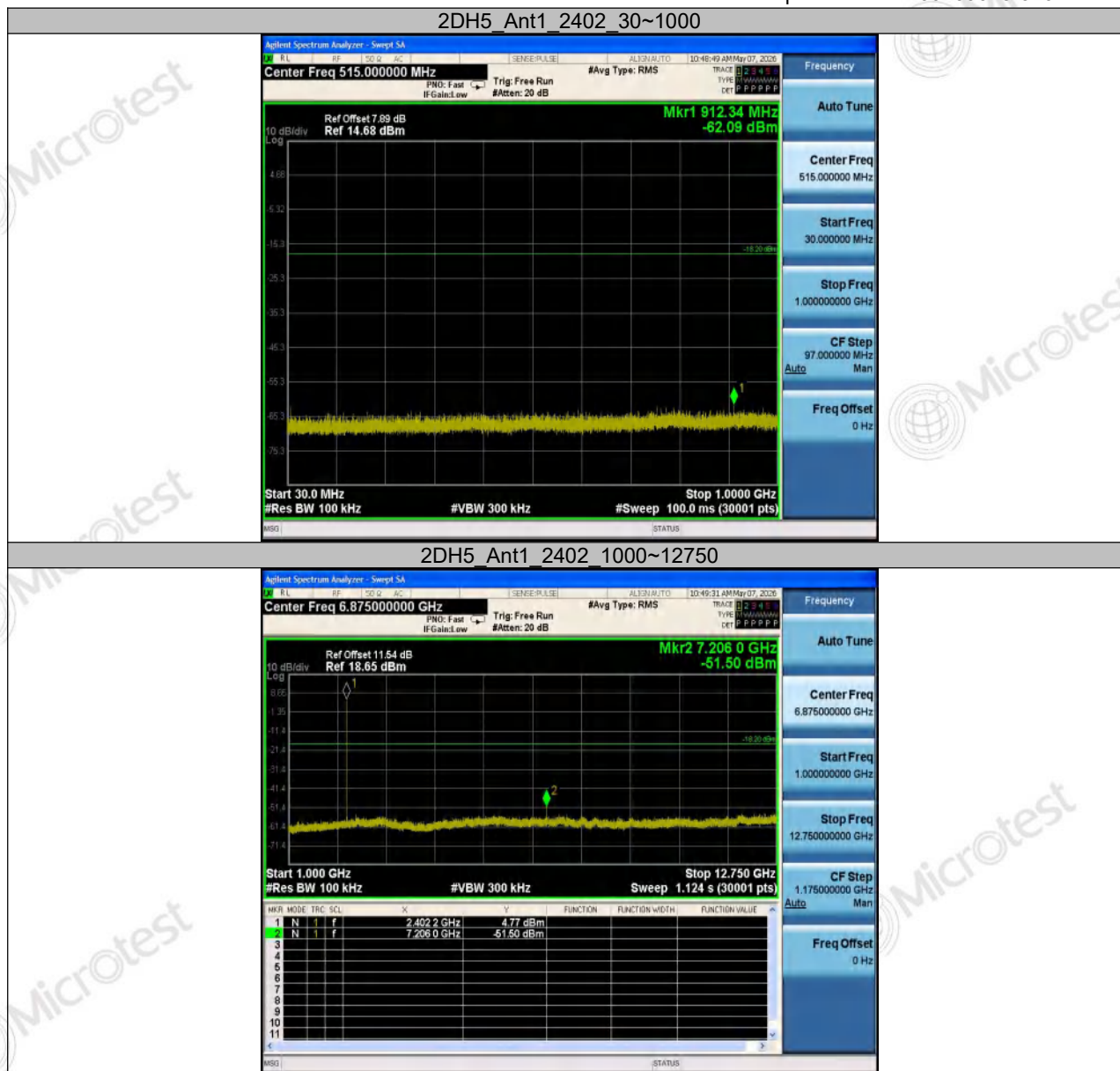
TEST REPORT

Report No.: MTi260409013-0102E1



TEST REPORT

Report No.: MTI260409013-0102E1



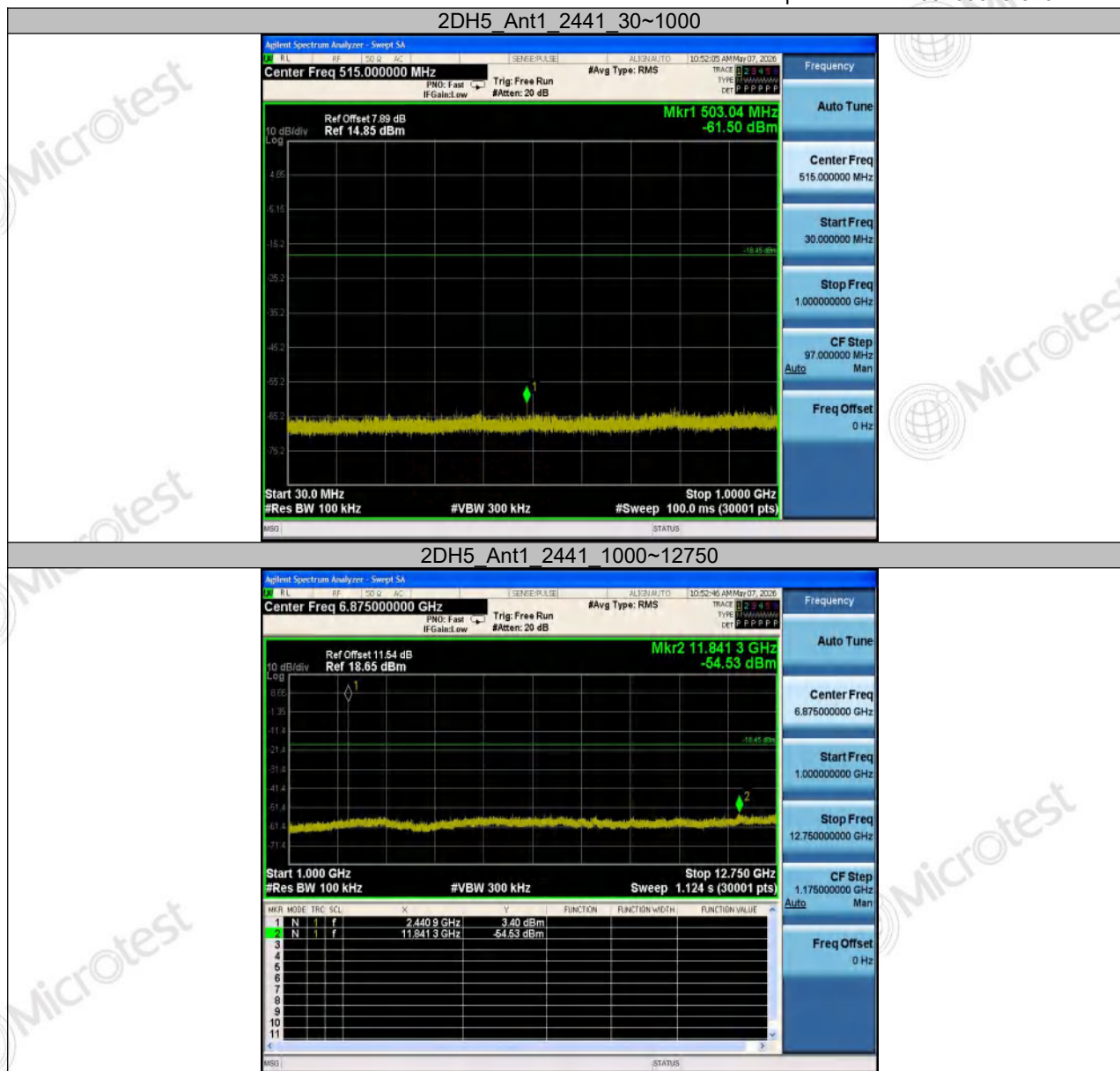
TEST REPORT

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TEST REPORT

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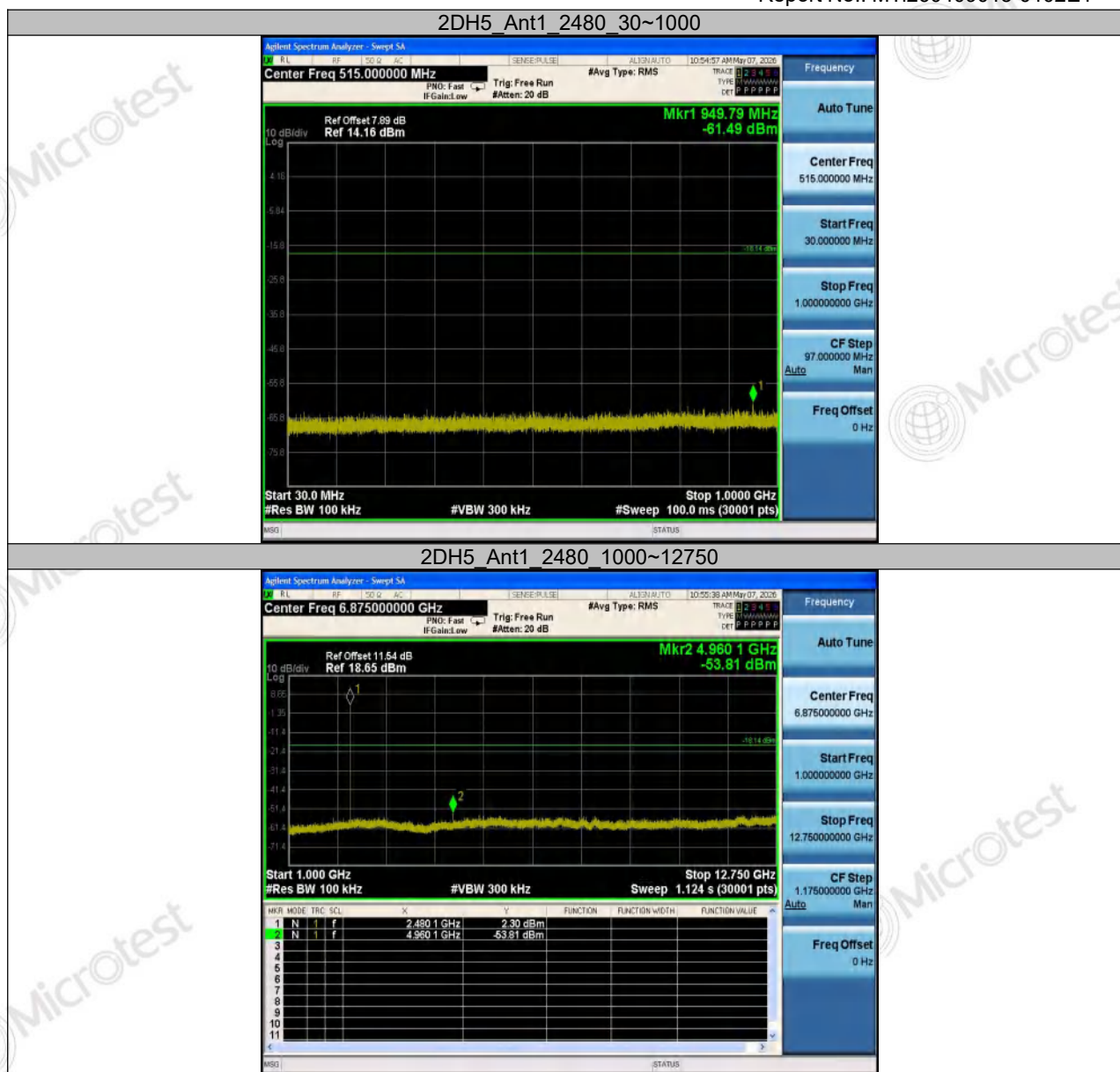
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TEST REPORT

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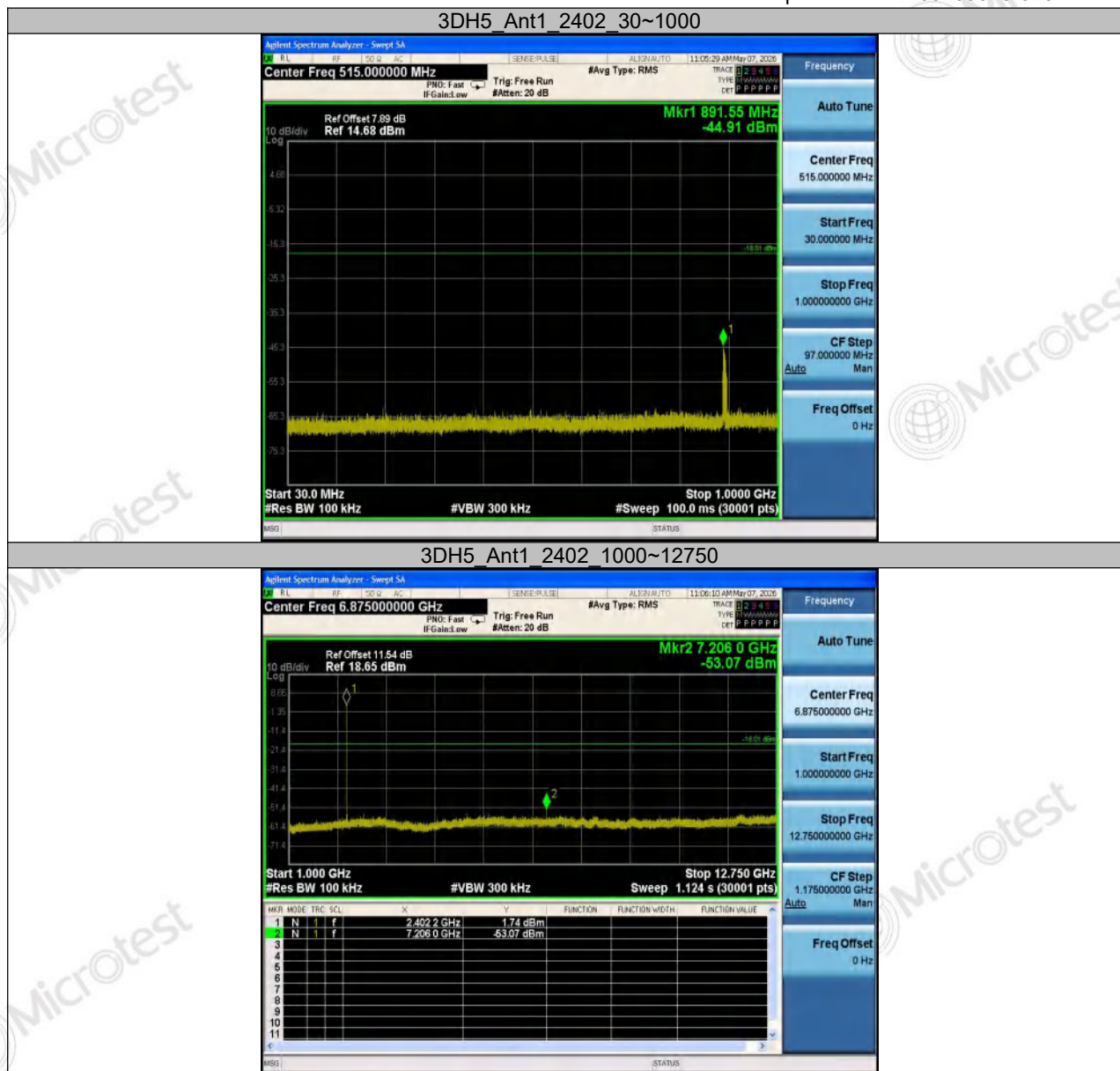
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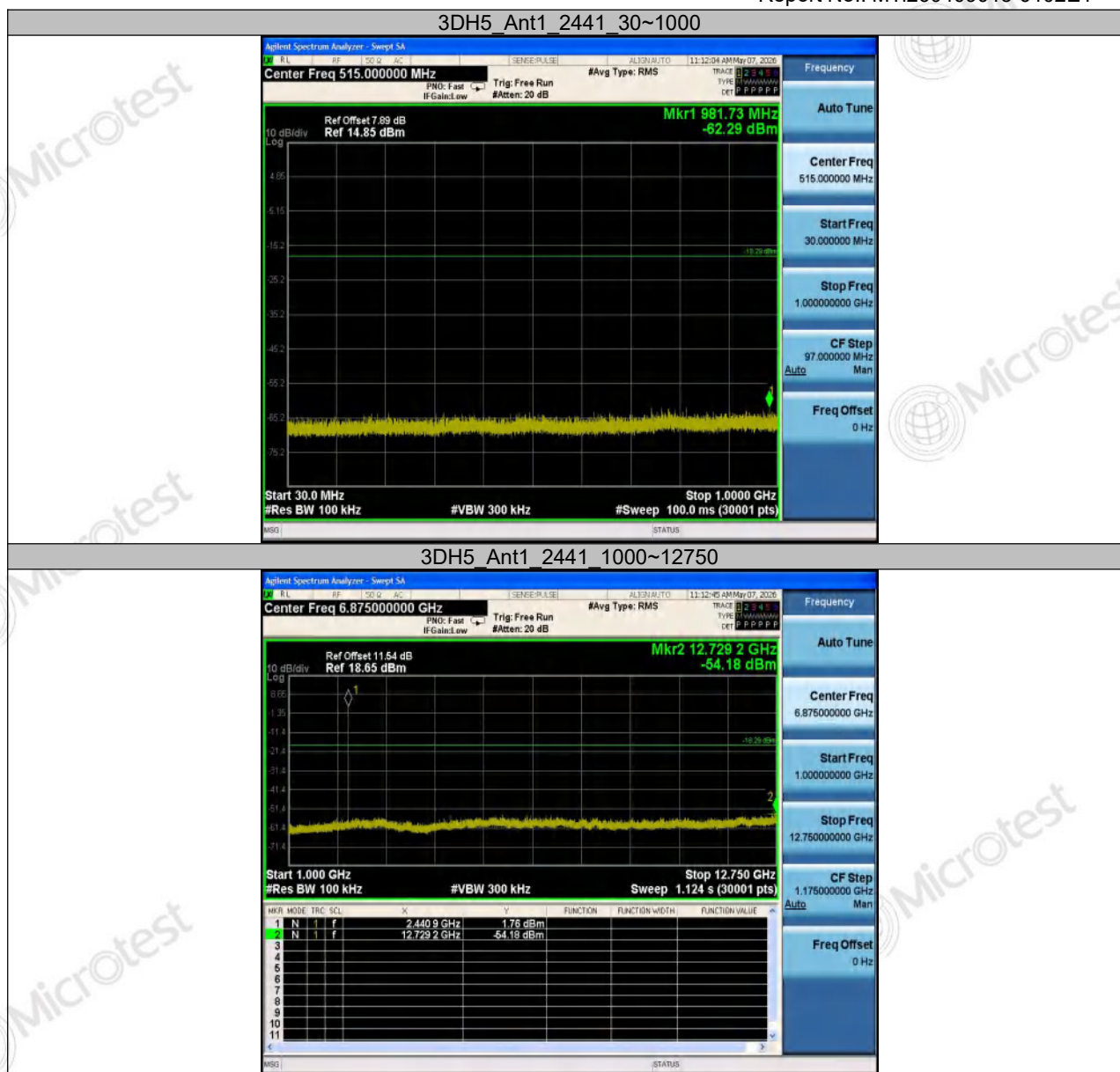
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TEST REPORT

Report No.: MTI260409013-0102E1



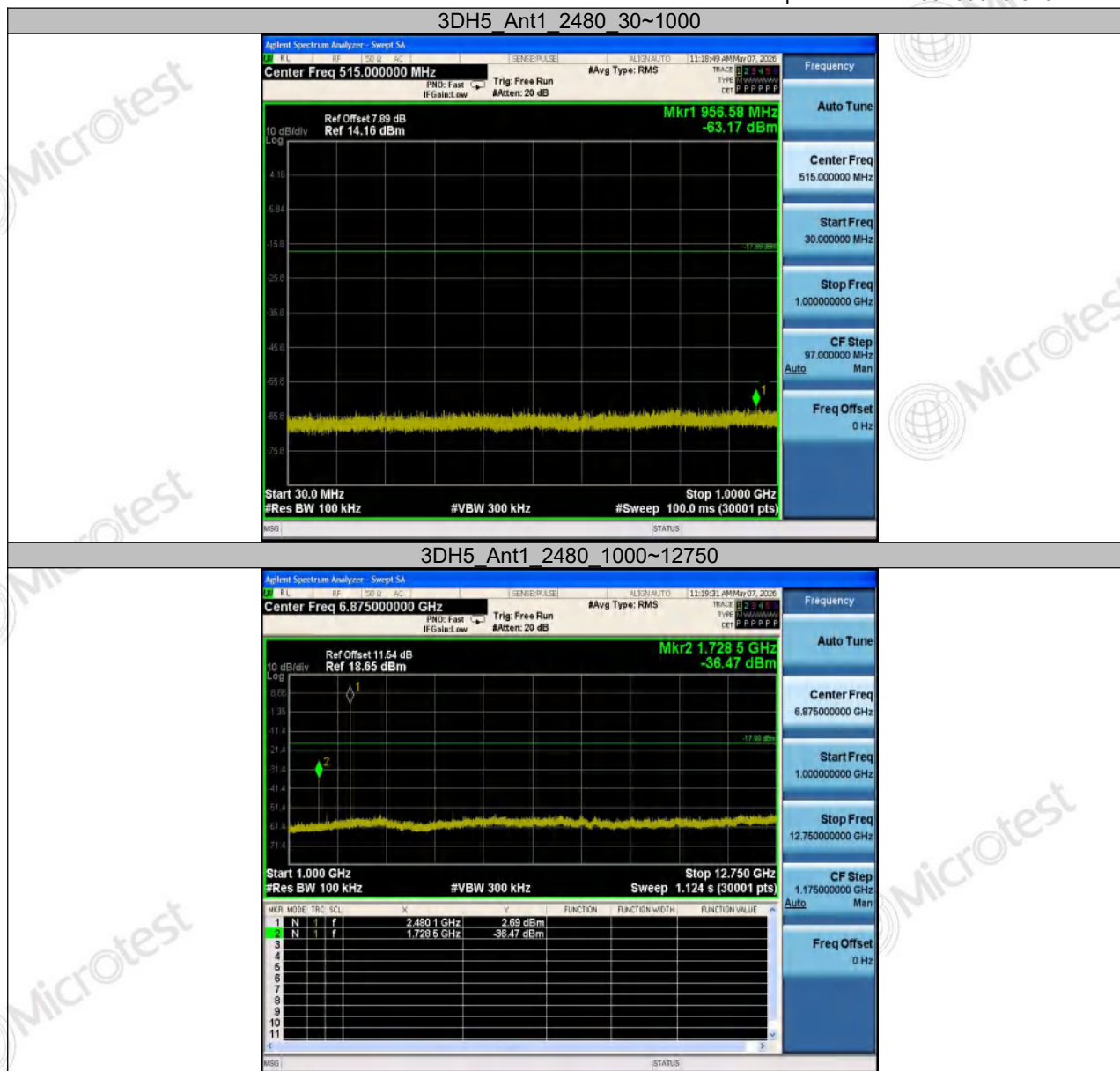
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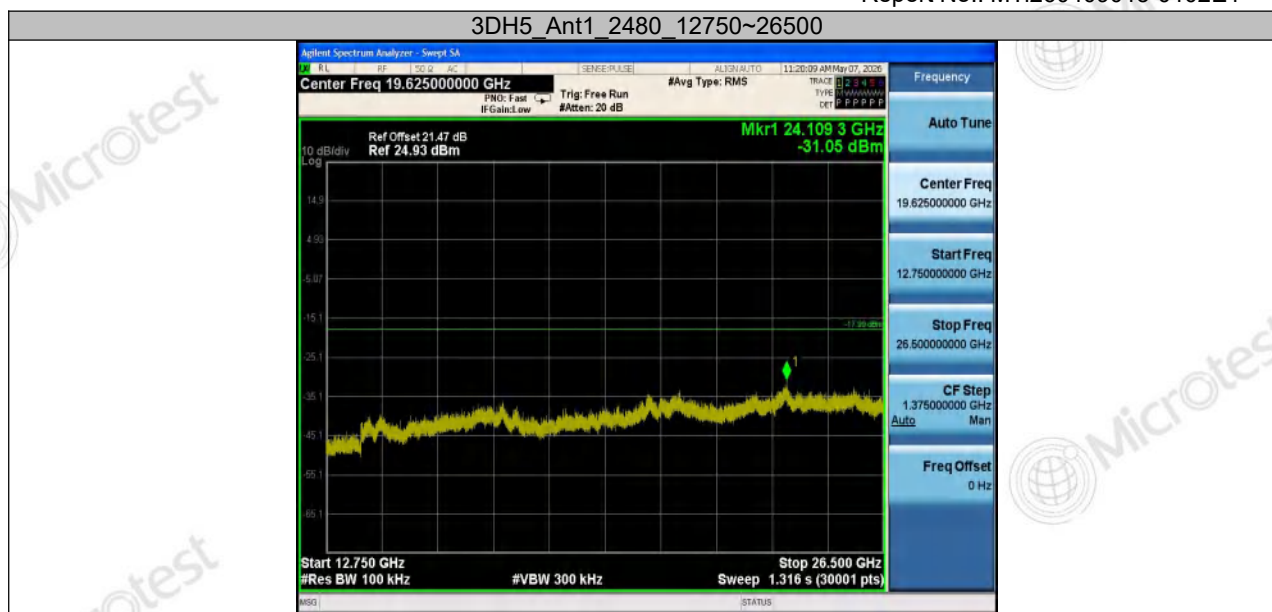
TEST REPORT

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TEST REPORT

Report No.: MTi260409013-0102E1

Statement

1. This report is invalid without the seal and signature of the laboratory.
2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
3. The report shall not be partially reproduced without the written consent of the Laboratory.
4. This report is invalid if transferred, altered or tampered with in any form without authorization.
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6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

***** END OF REPORT *****