



Report No: TW2501110-06E

Applicant: DMR Technologies

Product: Remote Control

Model No: Agri-Pro H20, Agri-Pro

Trademark: DMR Technologies

Test Standards: FCC Part 15 Subpart E, Paragraph 15.407

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of electromagnetic compatibility

Approved By

Terry Tang

Manager

Dated: February 10, 2025

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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Test Report Conclusion

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site Listed with Federal Communications commission (FCC)
Registration Number: 744189
For 3m Anechoic Chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: DMR Technologies
Address: 2050 15th St., Detroit, MI 48216

1.3 Description of EUT

Product: Remote Control
Manufacturer: DMR Technologies
Address: 2050 15th St., Detroit, MI 48216
Trademark: DMR Technologies
Additional Trademark: N/A
Model Number: Agri-Pro H20
Additional Model Number: Agri-Pro
Hardware Version: V1.2
Software Version: V1.1
Rating: Input: DC12V, 3A
Battery: DC3.7V, 20000mAh Li-ion battery
Type of Modulation OFDM
Frequency List: 5750MHz, 5780MHz, 5800MHz, 5820MHz
Antenna: Dipole antennas used. The gain of the antennas is 2.73dBi maximum for each. (Get from the antenna specification provided the applicant)
Frequency Selection By software

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1.4 Submitted Sample:2 Samples

1.5 Test Duration

2025-01-09 to 2025-02-10

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

Andy Xing

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.407	Conducted Emission Test	Pass	Complies
FCC Part 15 Subpart E Paragraph 15.407 (b1/4/5/6/7), Part 15.205 and Part 15.209	Undesirable Emission and Restrict band	Pass	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Transmit Power	Pass	Complies
FCC Part 15, Paragraph 15.407 (a)(6)	Peak Power Excursion	Pass	Complies
FCC Part 15, Paragraph 15.407 (a1/2/3)	Peak Power Spectral Density	Pass	Complies
FCC Part 15, Paragraph 15.407(g)	Frequency Stability	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247, ANSI C63.10 :2013 and ANSI C63.4 :2014
789033 D02 General UNII Test Procedures New Rules v01r04

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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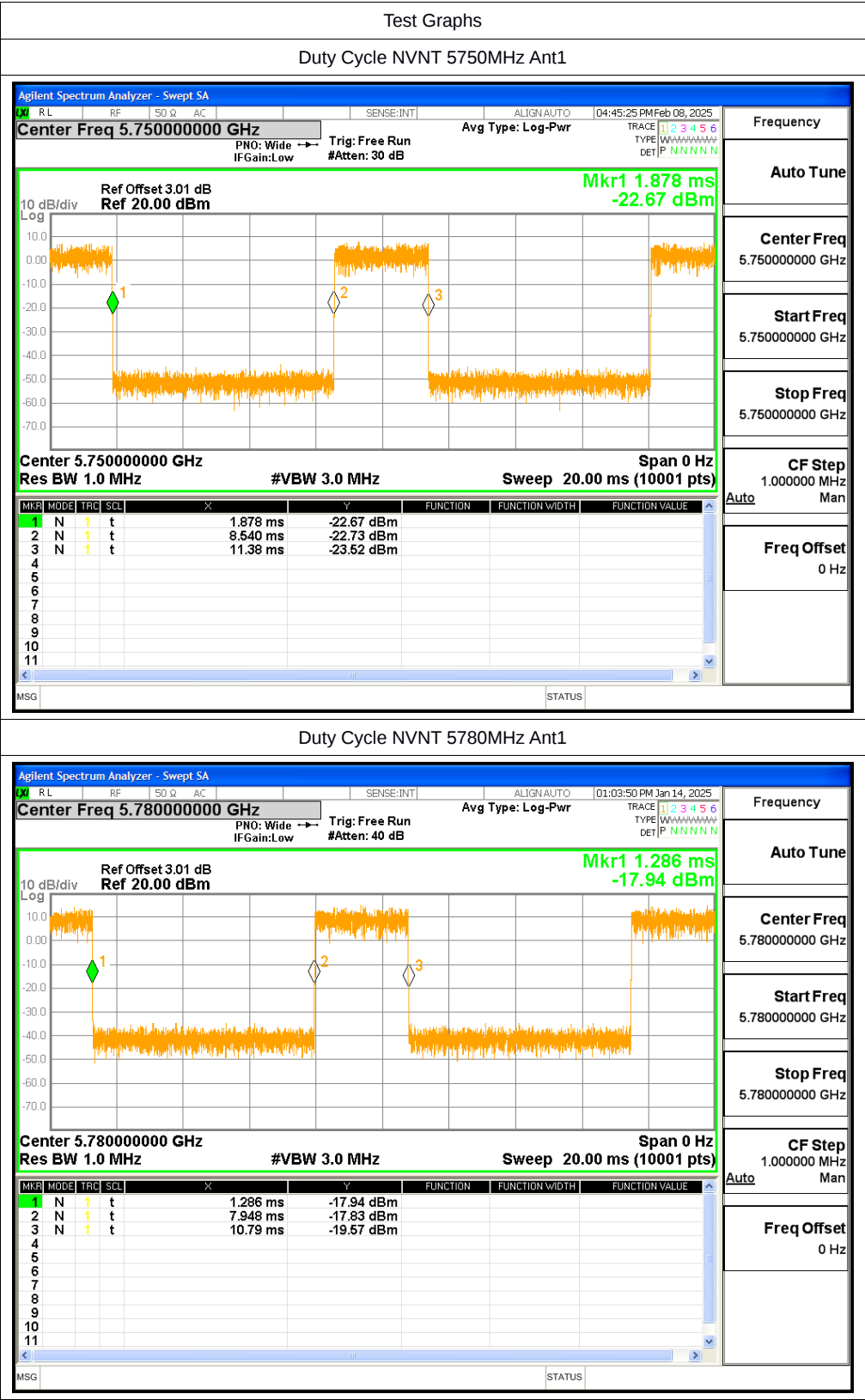


5.0 Duty Cycle

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5750	Ant1	29.9	5.24	0.35
		5780		29.92	5.24	0.35
		5820		29.92	5.24	0.35
		5750	Ant2	29.92	5.24	0.35
		5780		29.92	5.24	0.35
		5820		29.9	5.24	0.35

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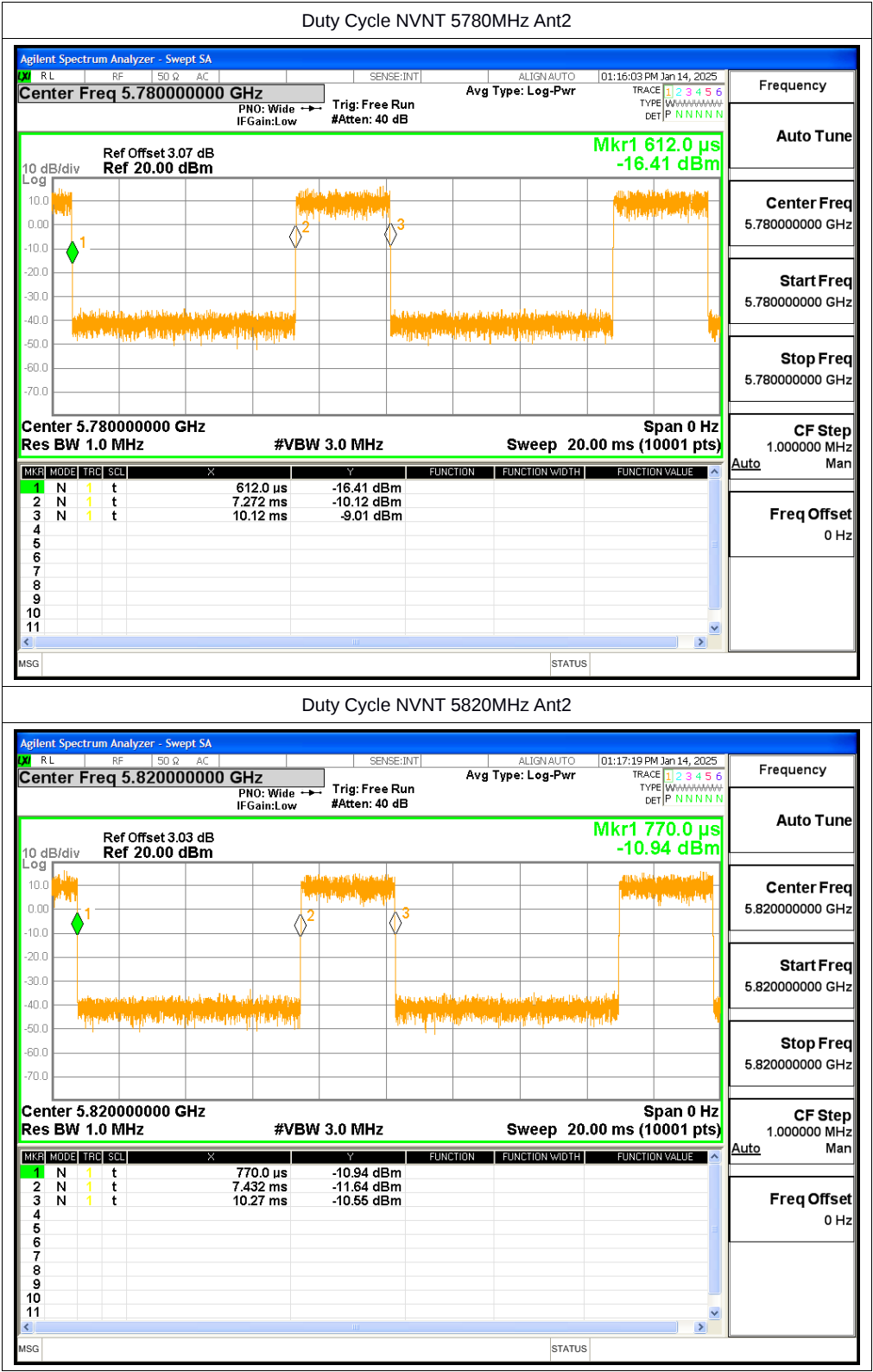
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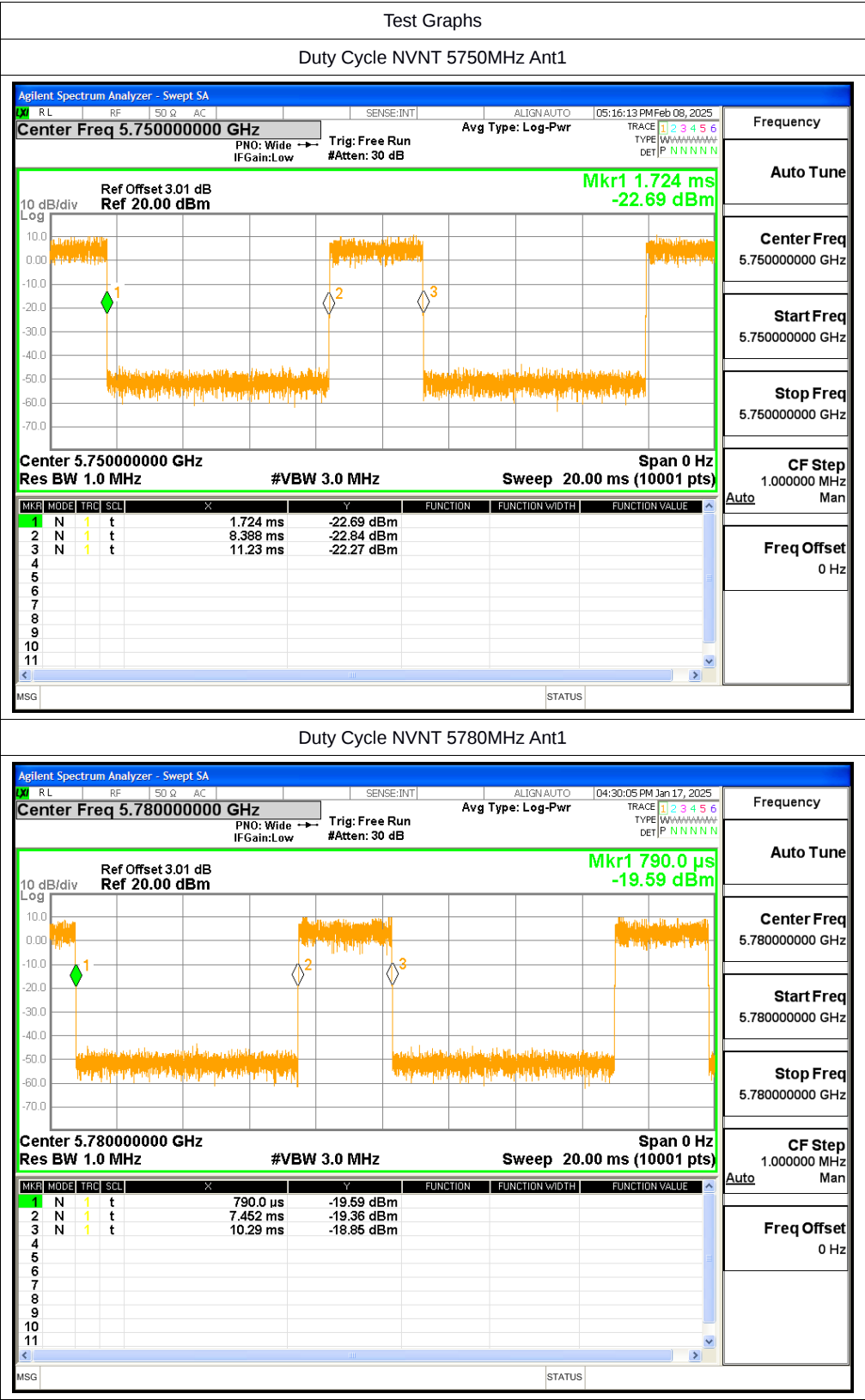
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5750	Ant1	29.9	5.24	0.35
		5780		29.9	5.24	0.35
		5820		29.9	5.24	0.35
		5750	Ant2	29.9	5.24	0.35
		5780		29.9	5.24	0.35
		5820		29.9	5.24	0.35

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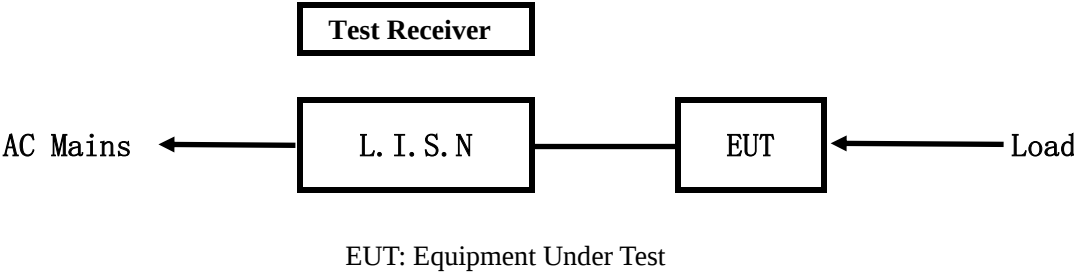
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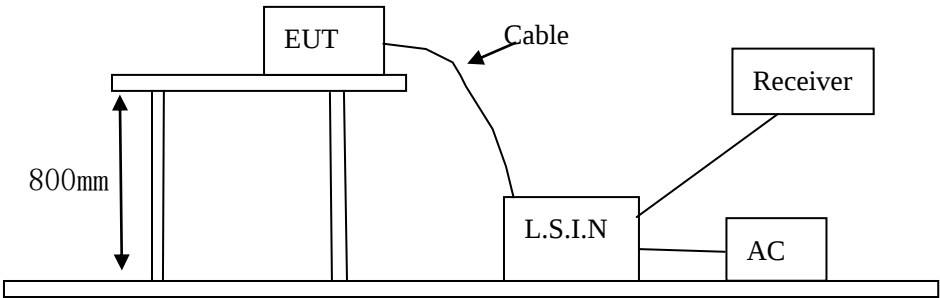
6. Power Line Conducted Emission Test

6.1 Schematics of the test



6.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2013.
Test Voltage: 120V~, 60Hz
Block diagram of Test setup



6.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Remote Control	DMR Technologies	Agri-Pro H20, Agri-Pro	2BM3J-H20

B. Internal Device

Device	Manufacturer	Model	Rating

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C. Peripherals

Device	Manufacturer	Model	Rating
Power Supply	Xiaomi	MDY-12-EF	Input: 100-240V~, 50/60Hz, 1.7A; Output: DC5V, 3A; 5-20A; 6.2- 3.25A(67W Max)

6.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

6.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

6.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

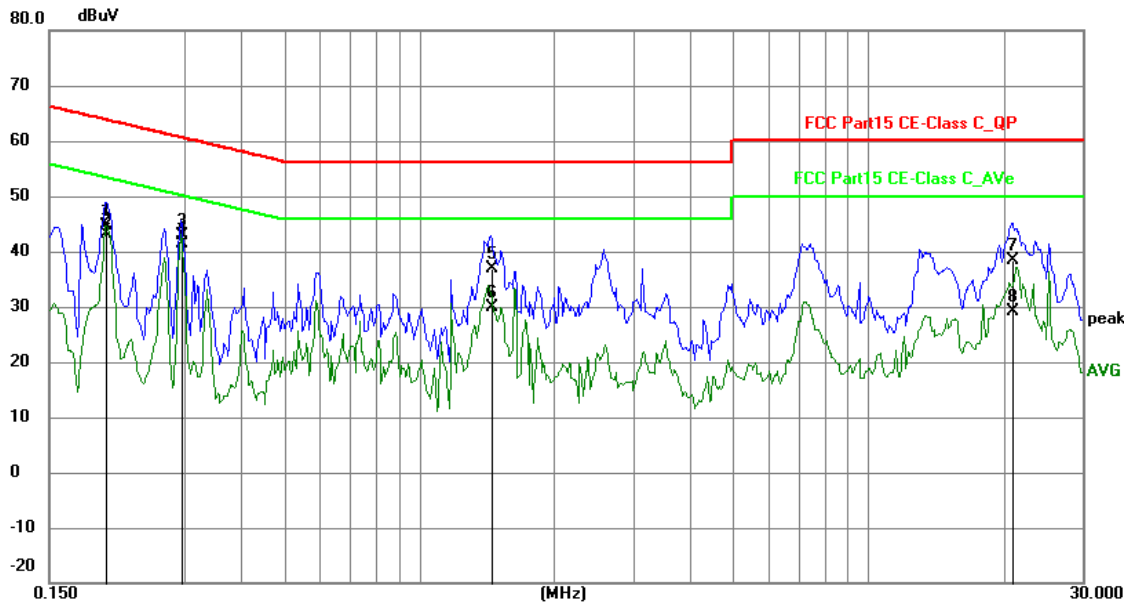
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keeping Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	34.40	10.32	44.72	63.58	-18.86	QP	P
2	0.2007	32.83	10.32	43.15	53.58	-10.43	AVG	P
3	0.2943	32.46	10.35	42.81	60.40	-17.59	QP	P
4	0.2943	30.91	10.35	41.26	50.40	-9.14	AVG	P
5	1.4448	26.03	10.86	36.89	56.00	-19.11	QP	P
6	1.4448	18.99	10.86	29.85	46.00	-16.15	AVG	P
7	20.8659	22.25	16.25	38.50	60.00	-21.50	QP	P
8	20.8659	12.95	16.25	29.20	50.00	-20.80	AVG	P

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

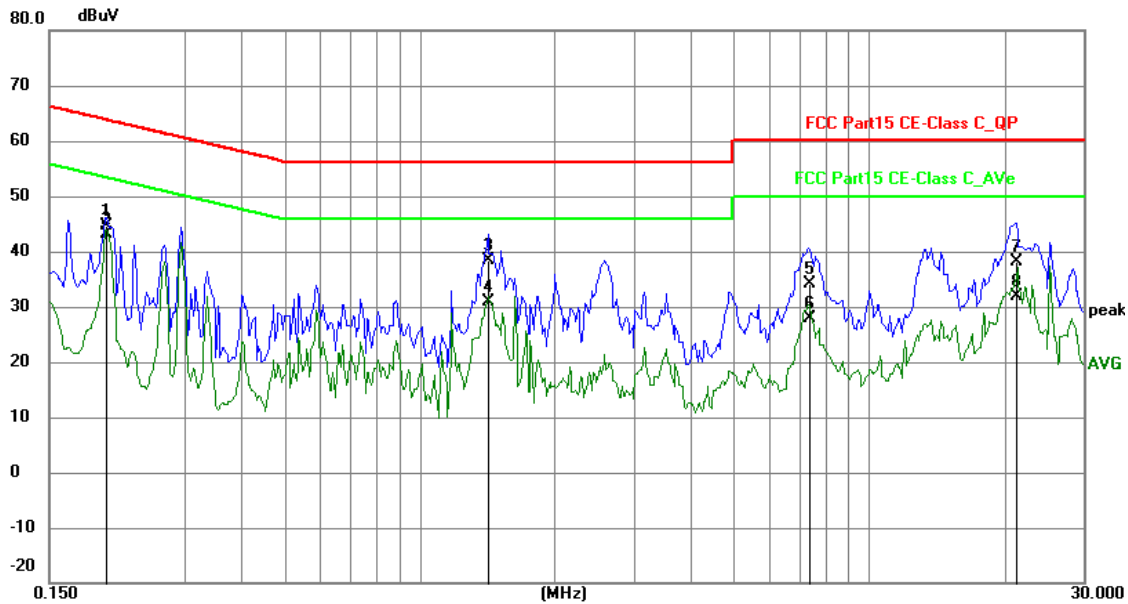
EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Keeping Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2007	34.26	10.32	44.58	63.58	-19.00	QP	P
2	0.2007	32.78	10.32	43.10	53.58	-10.48	AVG	P
3	1.4213	27.60	10.85	38.45	56.00	-17.55	QP	P
4	1.4213	20.00	10.85	30.85	46.00	-15.15	AVG	P
5	7.3524	21.12	12.96	34.08	60.00	-25.92	QP	P
6	7.3524	14.87	12.96	27.83	50.00	-22.17	AVG	P
7	21.2520	21.90	16.17	38.07	60.00	-21.93	QP	P
8	21.2520	15.79	16.17	31.96	50.00	-18.04	AVG	P

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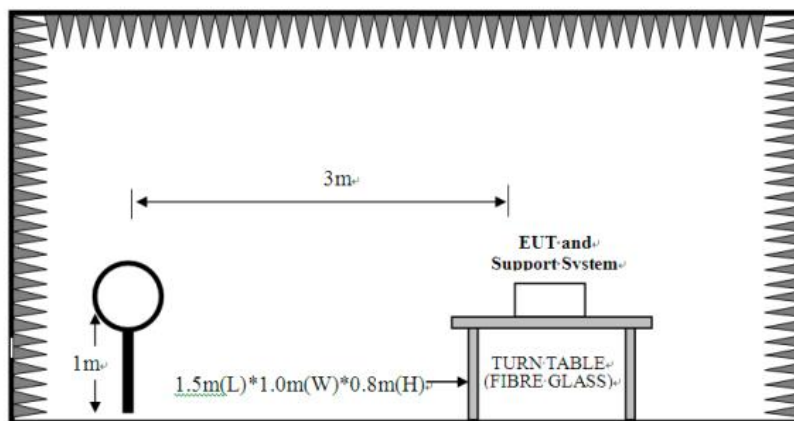
7 Undesirable Emission and Restrict band

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 40 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz, VBW=3MHz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a “QP” in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



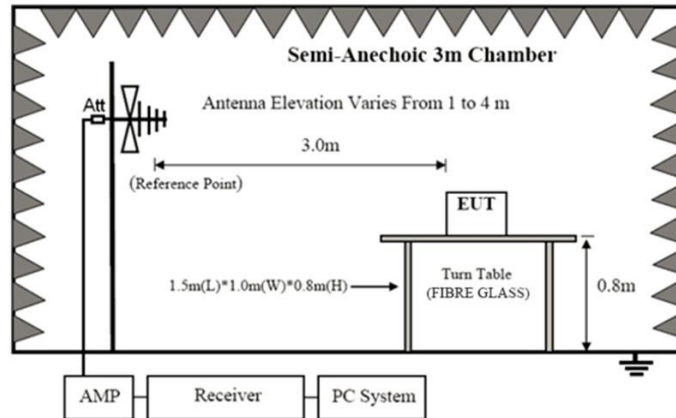
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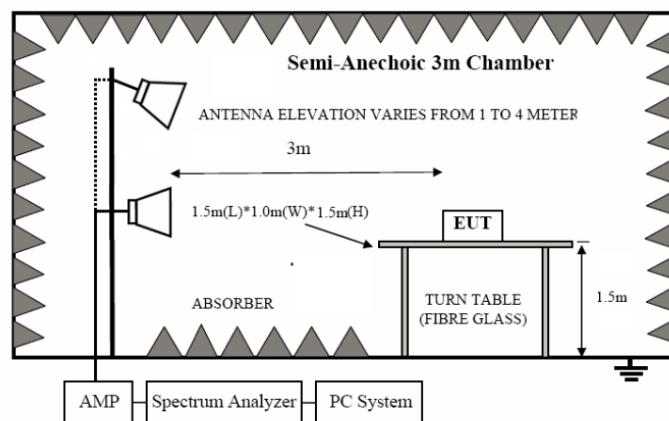
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



7.2 Configuration of The EUT

Same as section 5.3 of this report

7.3 EUT Operating Condition

Same as section 5.4 of this report.

7.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- (1) For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz
- (2) For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27dBm/MHz.

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (μ V)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

Note: Only the worst case was recorded in the test report.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

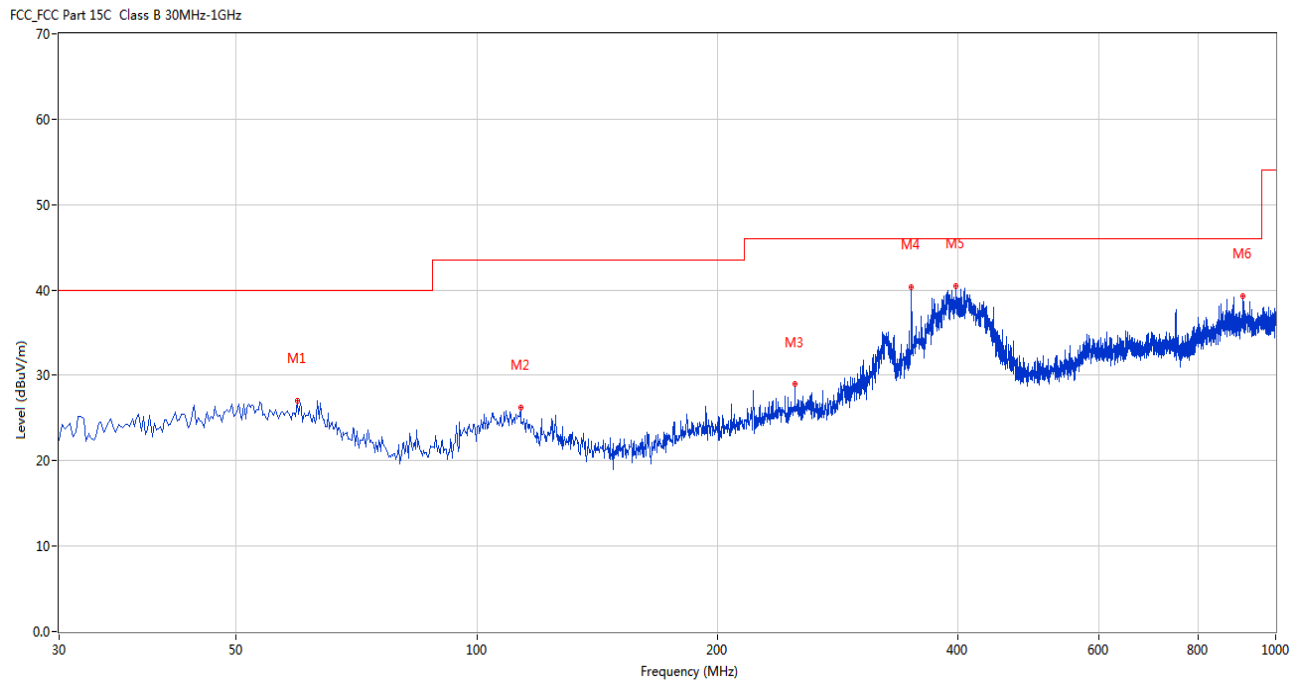
EUT set Condition: Keeping Transmitting

Results: Pass



Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	59.578	27.07	-5.37	40.0	12.93	Peak	109.00	100	Horizontal	Pass
2	113.399	26.29	-6.44	43.5	17.21	Peak	323.00	100	Horizontal	Pass
3	250.135	28.94	-5.03	46.0	17.06	Peak	167.00	100	Horizontal	Pass
4	350.020	40.30	-2.45	46.0	5.70	Peak	188.00	100	Horizontal	Pass
5	398.265	40.45	-1.73	46.0	5.55	Peak	342.00	100	Horizontal	Pass
6	909.328	39.28	5.17	46.0	6.72	Peak	188.00	100	Horizontal	Pass

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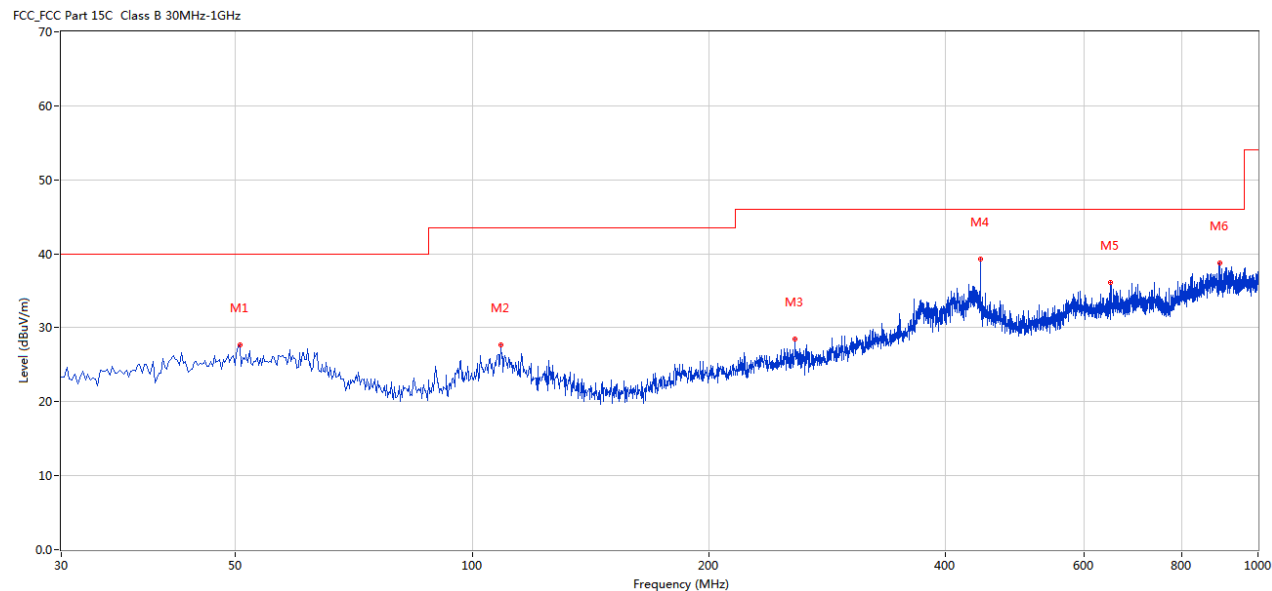
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.607	27.71	-5.08	40.0	12.29	Peak	211.00	100	Vertical	Pass
2	108.793	27.72	-5.98	43.5	15.78	Peak	140.00	100	Vertical	Pass
3	257.651	28.49	-5.03	46.0	17.51	Peak	250.00	100	Vertical	Pass
4	443.602	39.26	-0.86	46.0	6.74	Peak	180.00	100	Vertical	Pass
5	649.918	36.07	1.76	46.0	9.93	Peak	323.00	100	Vertical	Pass
6	893.327	38.70	4.81	46.0	7.30	Peak	211.00	100	Vertical	Pass

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Operation Mode: Keeping Transmitting-10M Bandwidth

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5750.00	96.12 (PK)	V	Fundamental Frequency
5750.00	85.27 (PK)	H	
11500	--	V	74(Peak)/ 54(AV)
11500	--	H	74(Peak)/ 54(AV)
17250	--	H/V	74(Peak)/ 54(AV)
23000	--	H/V	74(Peak)/ 54(AV)
28750	--	H/V	74(Peak)/ 54(AV)
34500	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

Operation Mode: Keeping Transmitting-10M Bandwidth

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5780.00	93.65 (PK)	V	Fundamental Frequency
5780.00	82.43 (PK)	H	
11560	--	V	74(Peak)/ 54(AV)
11560	--	H	74(Peak)/ 54(AV)
17340	--	H/V	74(Peak)/ 54(AV)
23120	--	H/V	74(Peak)/ 54(AV)
28900	--	H/V	74(Peak)/ 54(AV)
34680	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit
2. Remark "---" means that the emissions level is too low to be measured

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Operation Mode: Keeping Transmitting-10M Bandwidth

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
5820.00	92.38 (PK)	V	Fundamental Frequency
5820.00	81.09 (PK)	H	
11640	--	V	74(Peak)/ 54(AV)
11640	--	H	74(Peak)/ 54(AV)
17460	--	H/V	74(Peak)/ 54(AV)
23280	--	H/V	74(Peak)/ 54(AV)
29100	--	H/V	74(Peak)/ 54(AV)
34920	--	H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

2. Remark "---" means that the emissions level is too low to be measured

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Restricted band Measurement				
EUT	Remote Control		Test Mode:	5750MHz-10M Bandwidth
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	53.6 (PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-41.6		
Polarity	Vertical		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 53.6\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 53.6 - 95.2 = -41.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement				
EUT	Remote Control		Test Mode:	5750MHz-10M Bandwidth
Mode	Keeping Transmitting		Input Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
5725	PK (dBμV/m)	48.8(PK)	Limit	-17dBm/MHz
	EIRP (dBm)	-46.4		
Polarity	Horizontal		--	--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 48.8\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 48.8 - 95.2 = -46.4\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Remote Control		Test Mode: 5820MHz-10M Bandwidth
Mode	Keeping Transmitting		Input Voltage DC3.7V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	55.9(PK)	Limit -17dBm/MHz
	EIRP (dBm)	-39.3	
Polarity	Vertical		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 55.9\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 55.9 - 95.2 = -39.3\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Remote Control		Test Mode: 5820MHz-10M Bandwidth
Mode	Keeping Transmitting		Input Voltage DC3.7V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	50.7 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-44.5	
Polarity	Horizontal		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.7\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.7 - 95.2 = -44.5\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Remote Control		Test Mode: 5750MHz-20M Bandwidth
Mode	Keeping Transmitting		Input Voltage DC3.7V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	55.3 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-39.9	
Polarity	Vertical		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 55.3\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 55.3 - 95.2 = -39.9\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Remote Control		Test Mode: 5750MHz-20M Bandwidth
Mode	Keeping Transmitting		Input Voltage DC3.7V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5725	PK (dBμV/m)	50.5(PK)	Limit -17dBm/MHz
	EIRP (dBm)	-44.7	
Polarity	Horizontal		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 50.5\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 50.5 - 95.2 = -44.7\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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Restricted band Measurement			
EUT	Remote Control		Test Mode: 5820MHz-20M Bandwidth
Mode	Keeping Transmitting		Input Voltage DC3.7V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	58.1 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-37.1	
Polarity	Vertical		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 58.1\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 58.1 - 95.2 = -37.1\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

Restricted band Measurement			
EUT	Remote Control		Test Mode: 5820MHz-20M Bandwidth
Mode	Keeping Transmitting		Input Voltage DC3.7V
Temperature	24 deg. C,		Humidity 56% RH
Test Result:	Pass		Detector PK
5850	PK (dBμV/m)	52.6 (PK)	Limit -17dBm/MHz
	EIRP (dBm)	-42.6	
Polarity	Horizontal		--

Remark: 1. According to KDB 789033 D02 General UNII Test Procedures New Rules v01 section G) d) (ii), for measurement above 1000MHz@3m distance, the limit of EIRP is calculated as follows:

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2$$

For Example, if $\text{E[dB}\mu\text{V/m]} = 52.6\text{dB}\mu\text{V/m}$,

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} - 95.2 = 52.6 - 95.2 = -42.6\text{dBm}$$

2. RBW=1MHz, VBW=3MHz

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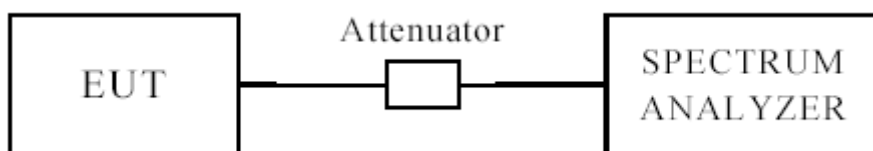
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8.0 Emission Bandwidth

8.1 Test Setup



8.3 Test Procedure for Emission Bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW > RBW
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

8.4 Test Procedure for Minimum Bandwidth for the Band 5725-5850MHz

1. Set RBW = 100 kHz.
2. Set $VBW \geq 3 \times RBW$.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

8.5 Test Procedure for 99% Bandwidth

1. Set center frequency to the nominal EUT channel center frequency
2. Set span = 1.5 times to 5.0 times OBW
3. Set RBW = 1% TO 5% of the OBW
4. Set $VBW \geq 3 \times RBW$
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Other, peak detection and max mode (until trace stabilizes) shall be used.
6. Use the 99% power bandwidth function of the instrument

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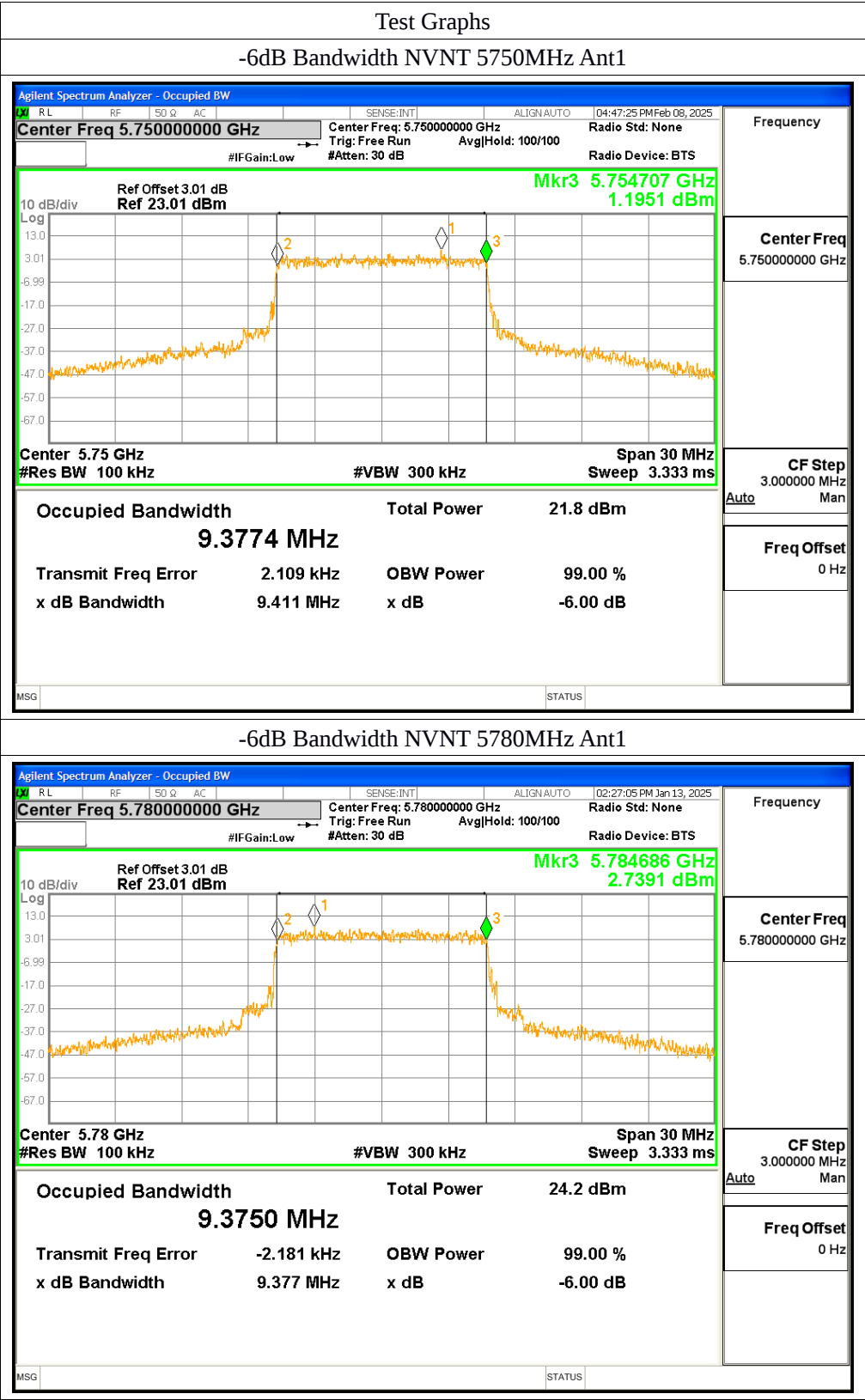
8.6 Test Result

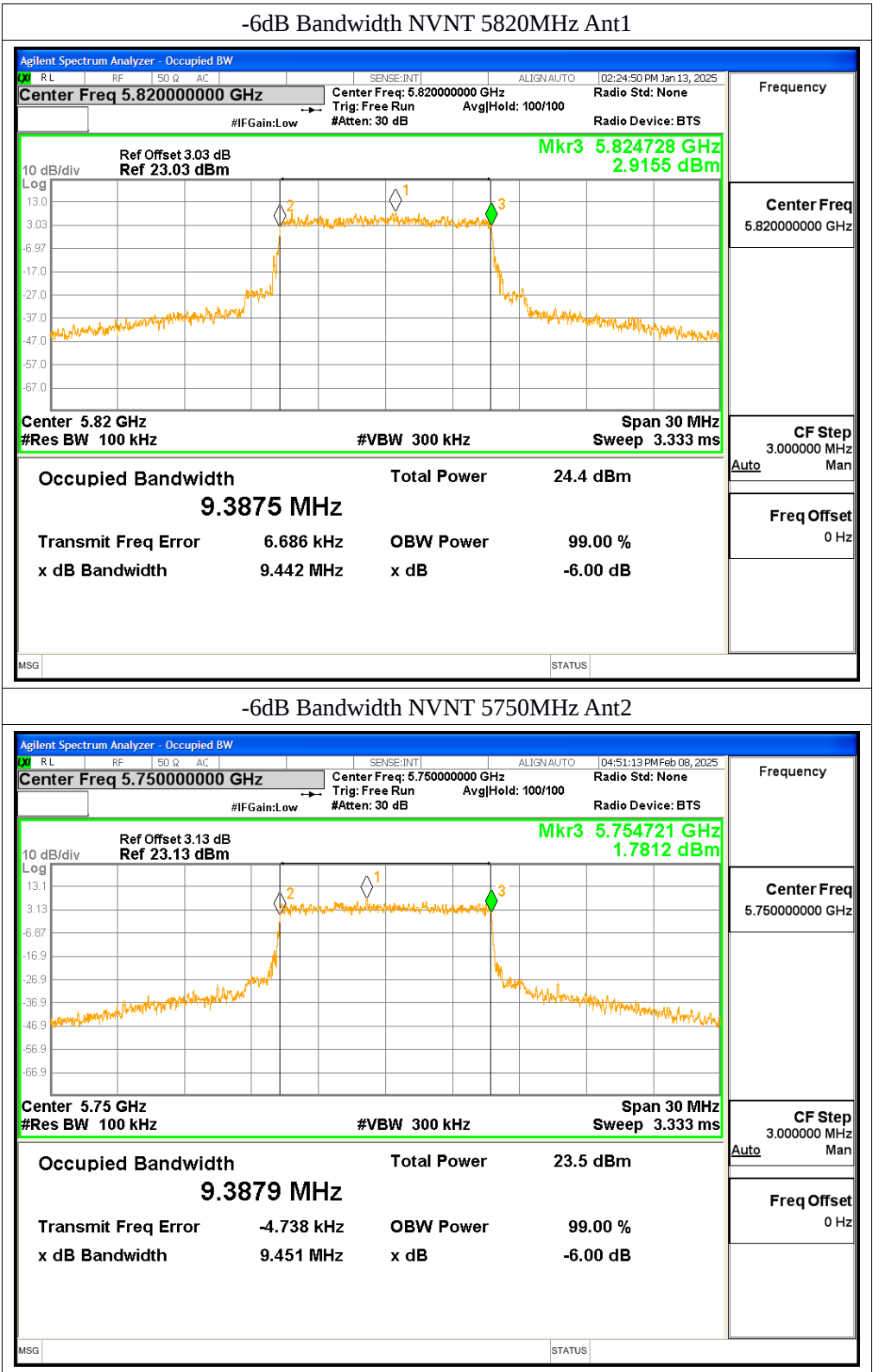
-6dB Bandwidth

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5750	Ant1	9.411	0.5	Pass
		5780		9.377	0.5	Pass
		5820		9.442	0.5	Pass
		5750	Ant2	9.451	0.5	Pass
		5780		9.412	0.5	Pass
		5820		9.418	0.5	Pass

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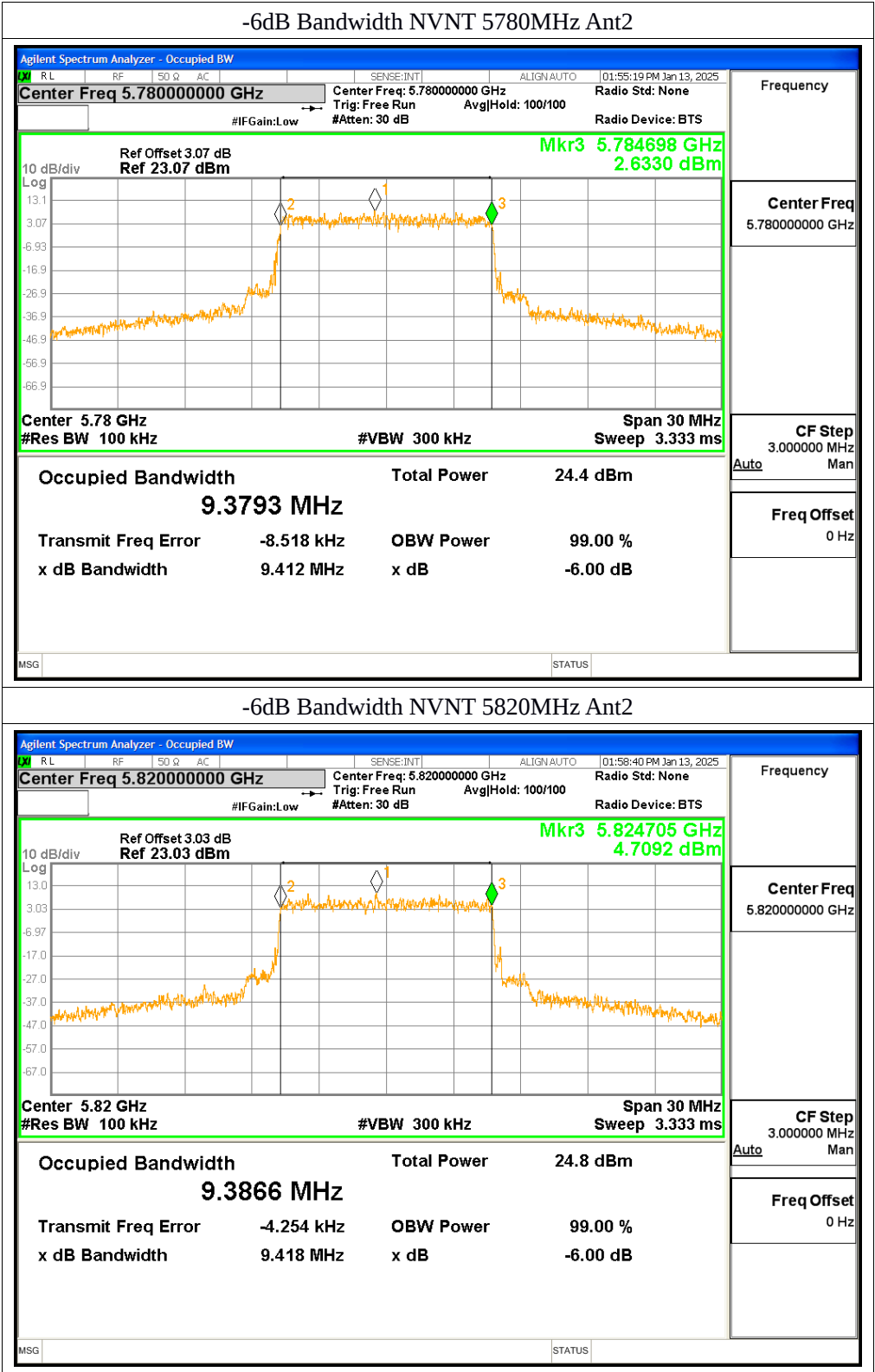




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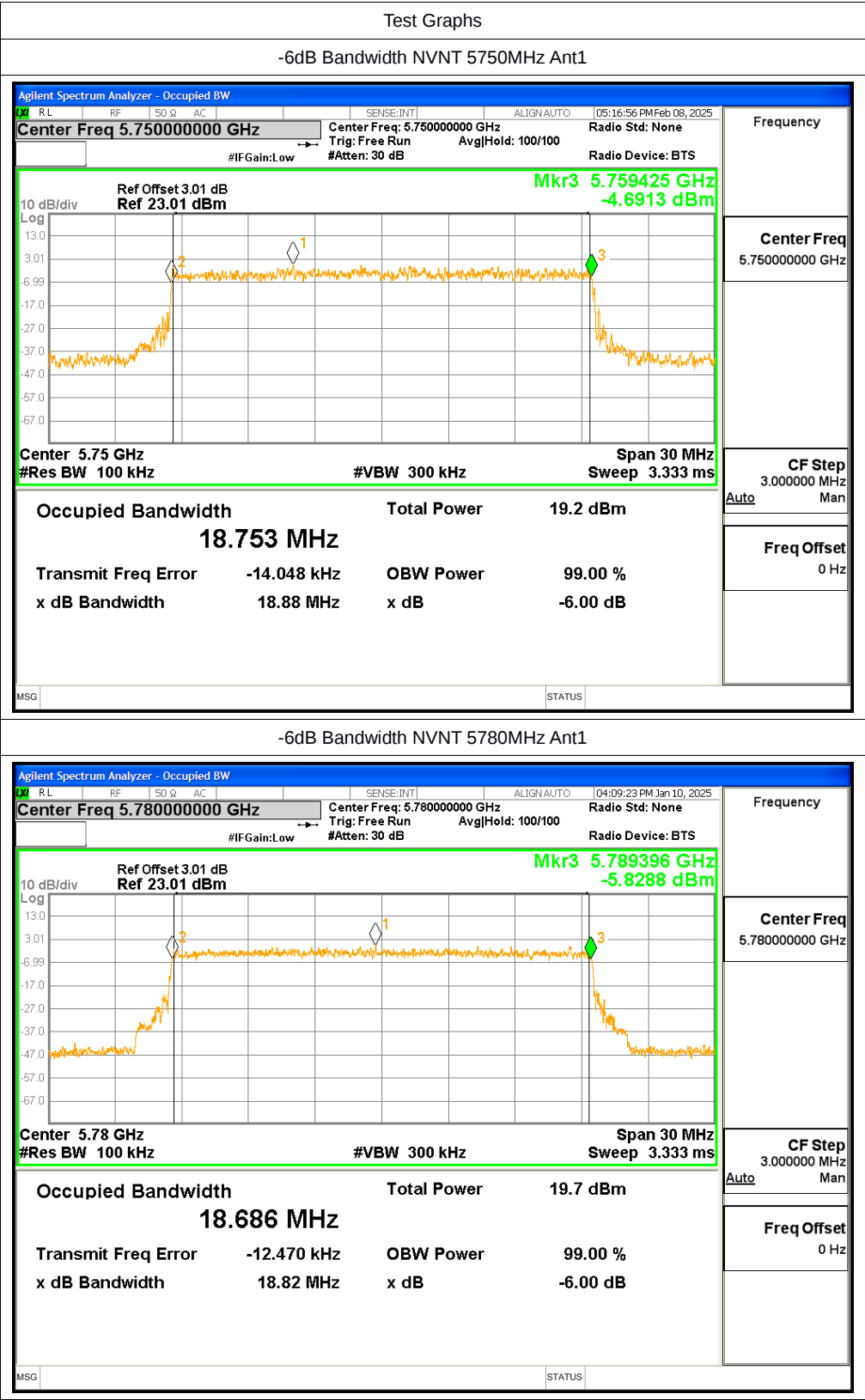
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5750	Ant1	18.878	0.5	Pass
		5780		18.817	0.5	Pass
		5820		18.818	0.5	Pass
		5750	Ant2	18.853	0.5	Pass
		5780		18.87	0.5	Pass
		5820		18.794	0.5	Pass

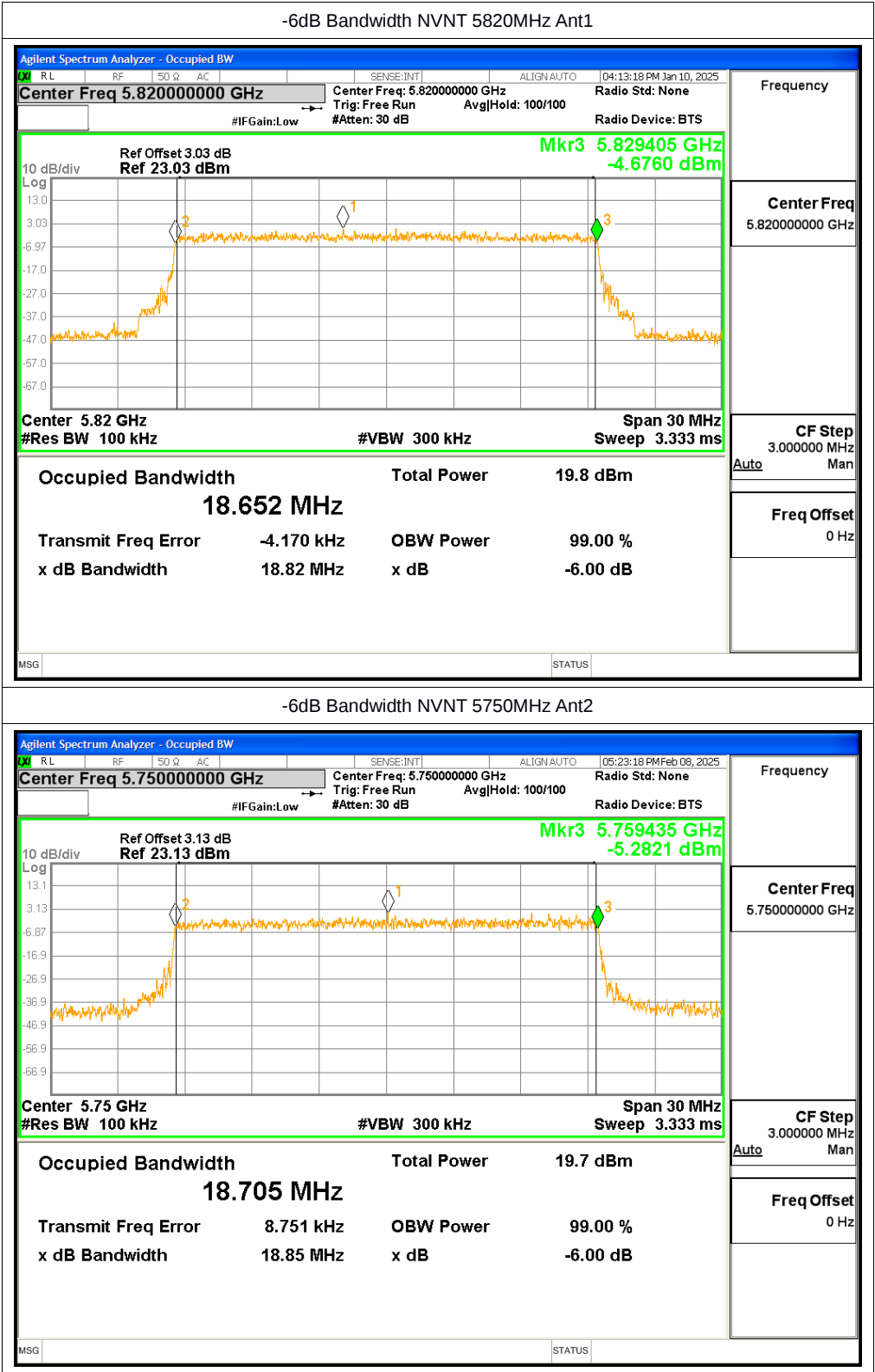
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Agilent Spectrum Analyzer - Occupied BW

RL

RF

50 Ω

AC

SENSE:INT

ALIGN: AUTO

05:23:18 PM Feb 08, 2025

Center Freq 5.750000000 GHz

Center Freq: 5.750000000 GHz

Radio Std: None

#IF Gain: Low

Trig: Free Run

Avg/Hold: 100/100

Radio Device: BTS

Ref Offset 3.13 dB

Ref 23.13 dBm

Mkr3 5.759435 GHz

-5.2821 dBm

Center 5.75 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 30 MHz

Sweep 3.333 ms

Occupied Bandwidth

18.705 MHz

Total Power

19.7 dBm

Transmit Freq Error

8.751 kHz

OBW Power

99.00 %

x dB Bandwidth

18.85 MHz

x dB

-6.00 dB

MSG

STATUS

Frequency

Center Freq

5.750000000 GHz

CF Step

3.000000 MHz

Auto

Man

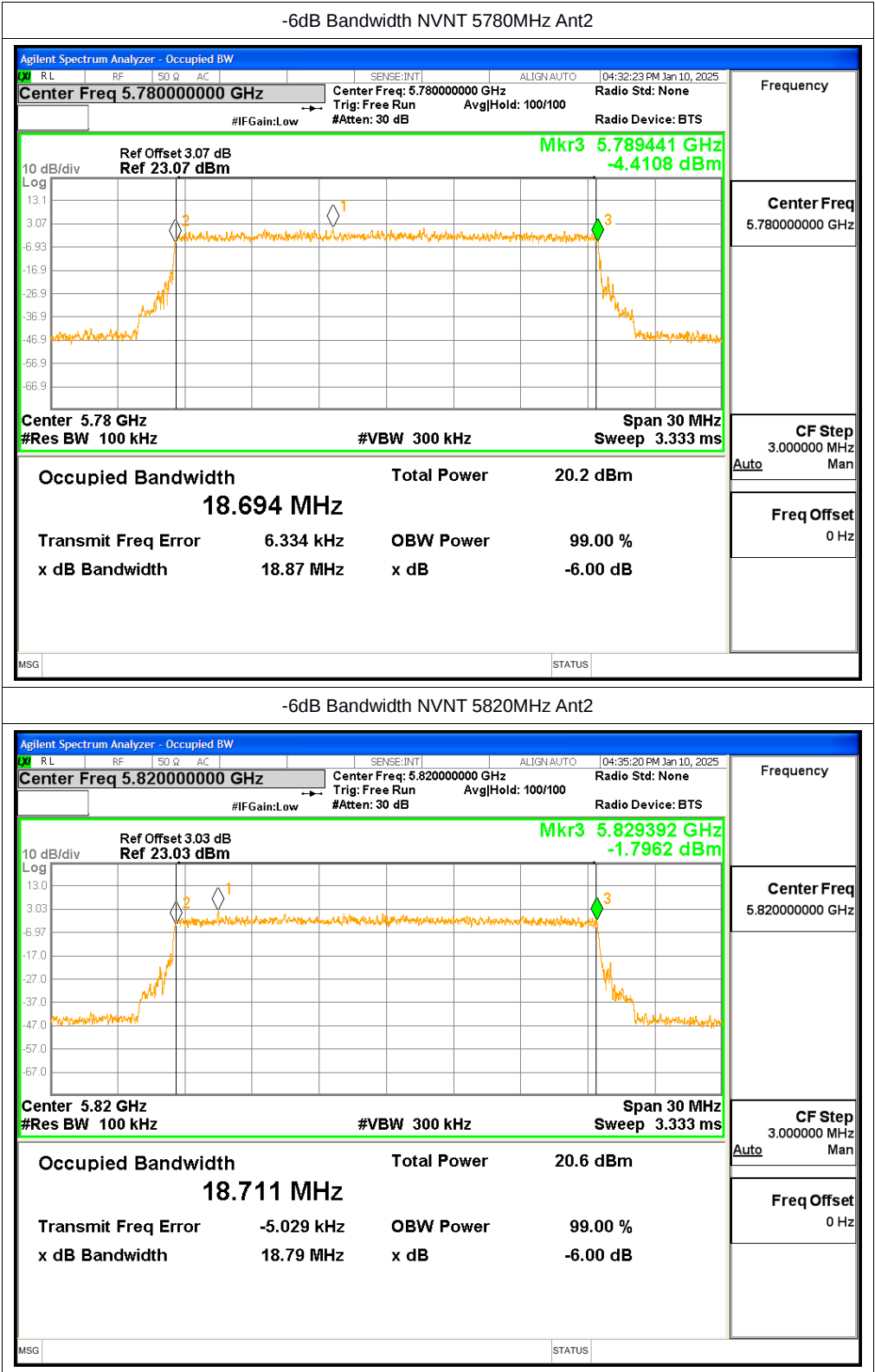
Freq Offset

0 Hz

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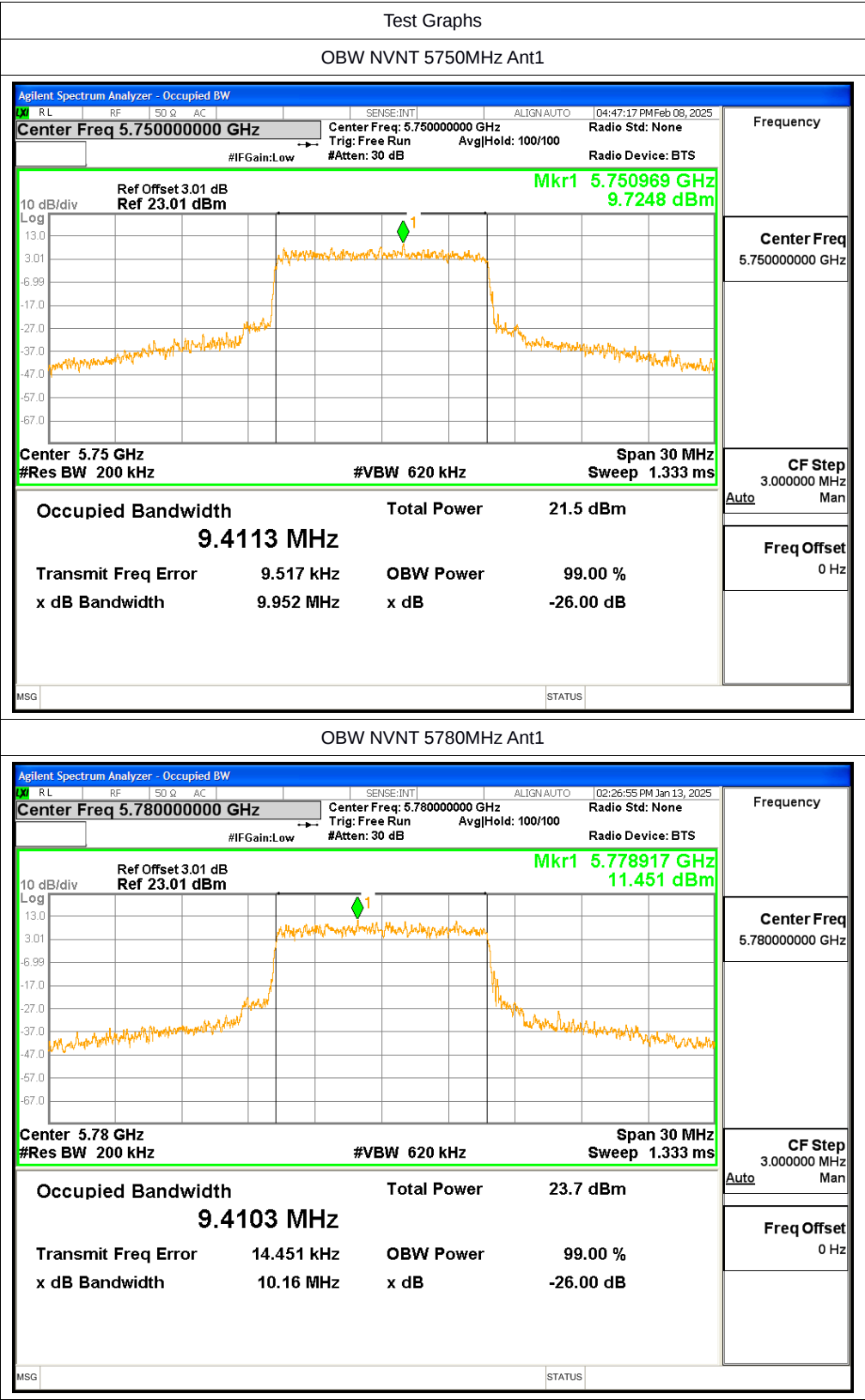


Occupied Channel Bandwidth

10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5750	Ant1	9.411
		5780		9.41
		5820		9.412
		5750	Ant2	9.379
		5780		9.412
		5820		9.401

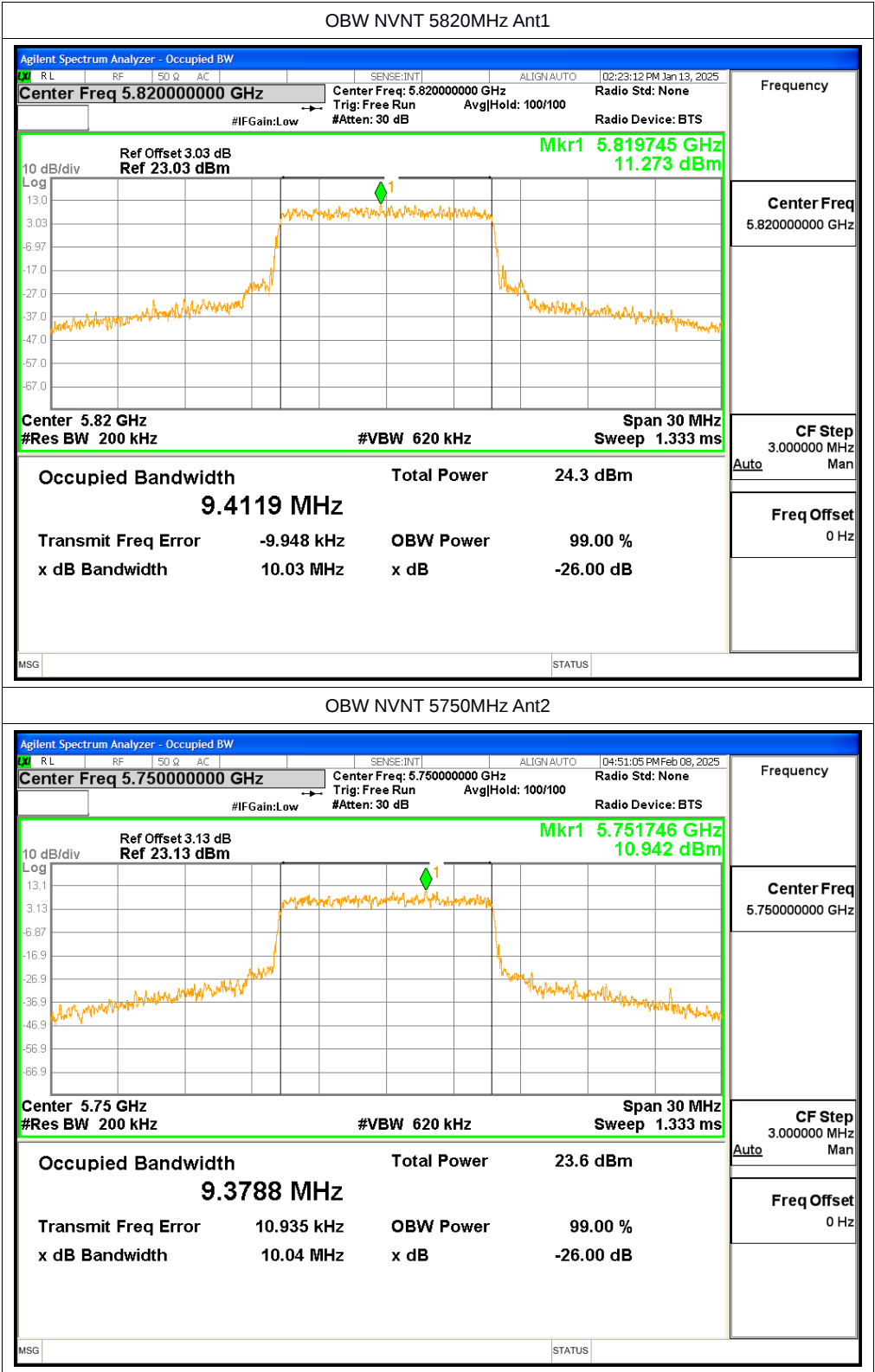
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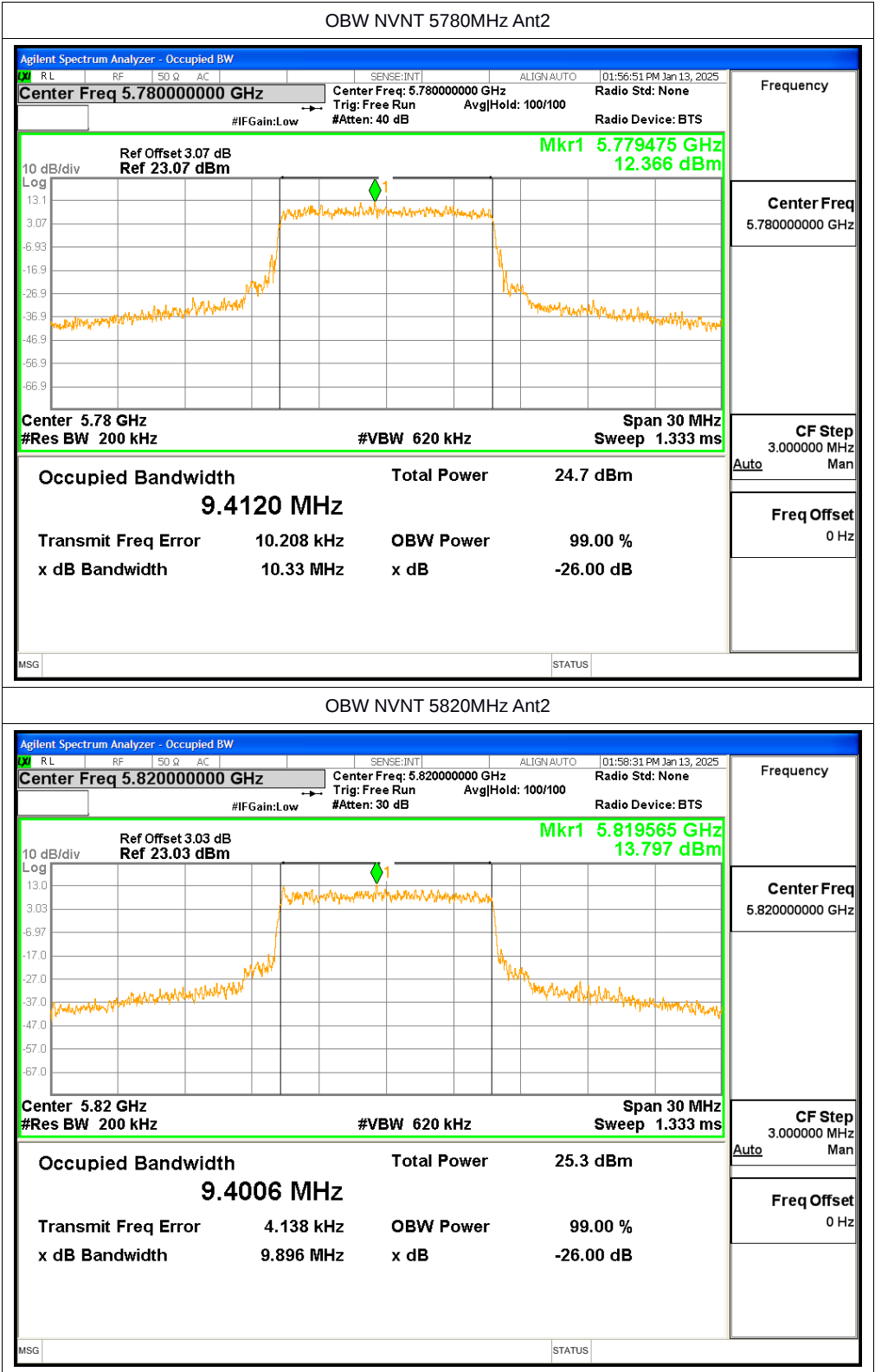
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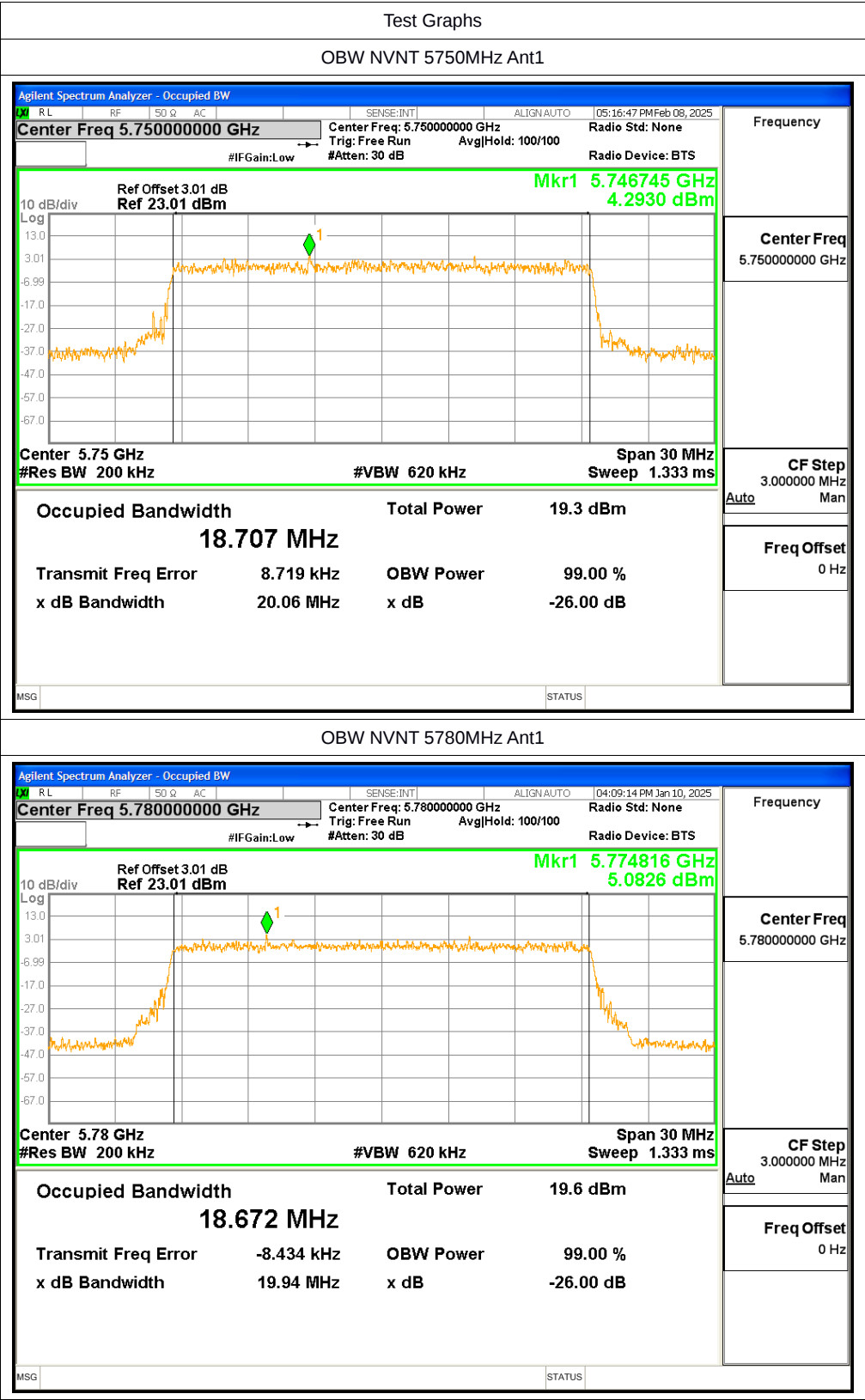
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5750	Ant1	18.707
		5780		18.672
		5820		18.717
		5750	Ant2	18.688
		5780		18.695
		5820		18.767

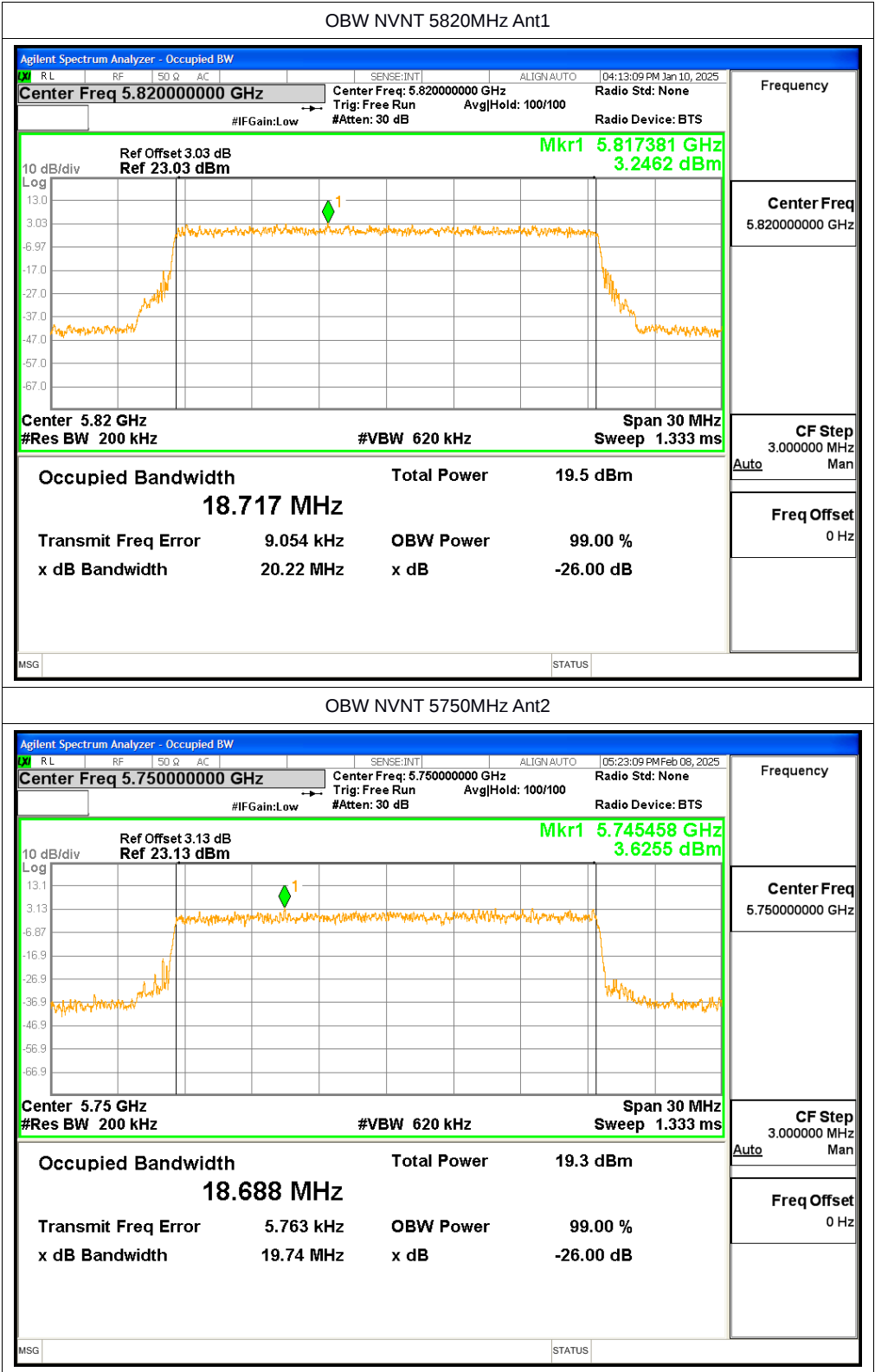
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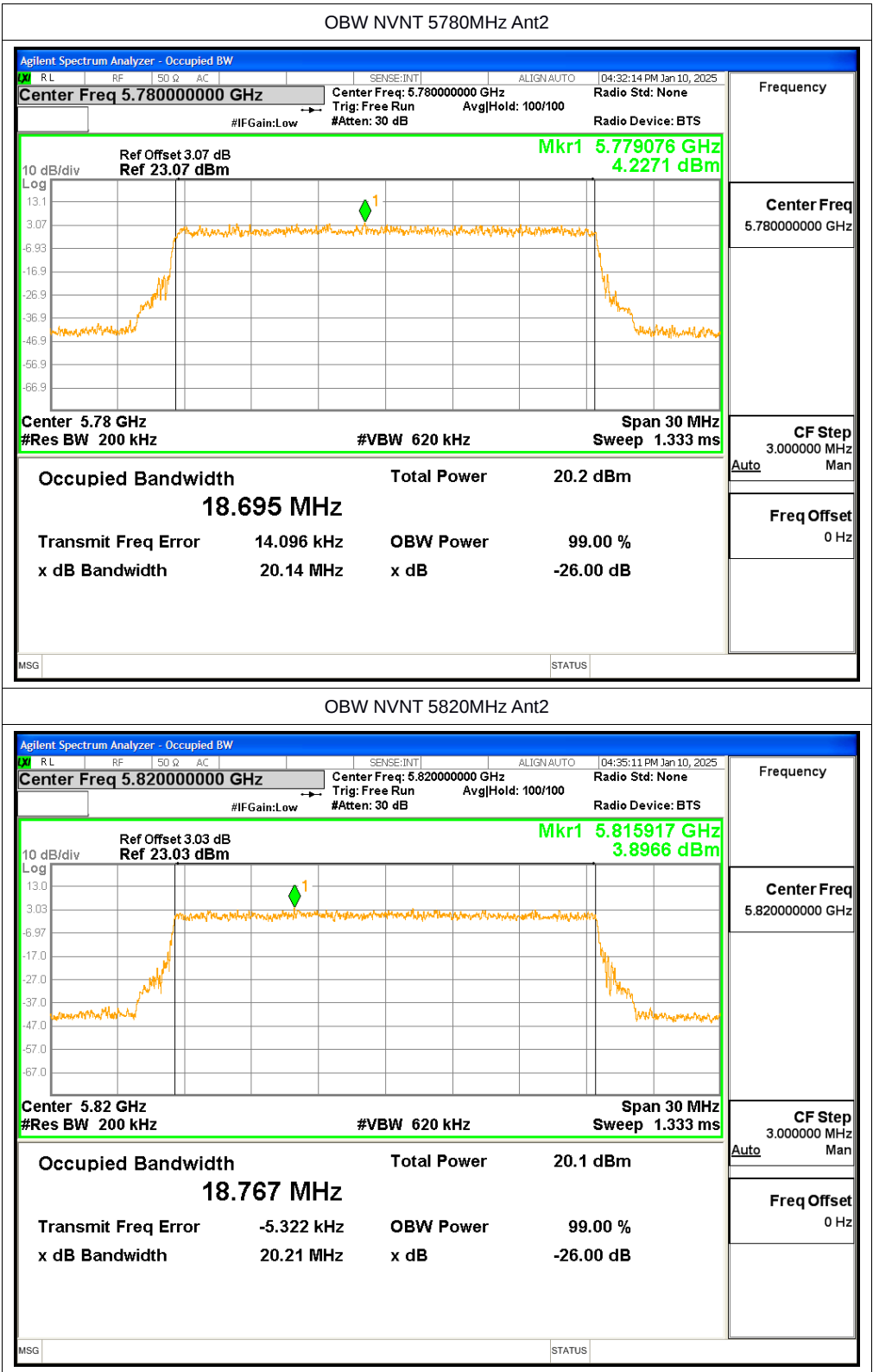
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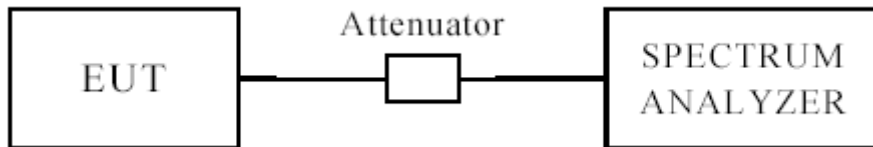
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9.0 Peak Transmit Power Measurement

9.1 Test Setup



9.2 Limits of Peak Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) $\cong$ (Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	--		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

9.3 Test Procedure

The RF power output was measured with a Spectrum analyzer connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: the average power was measured

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9.4Test Results

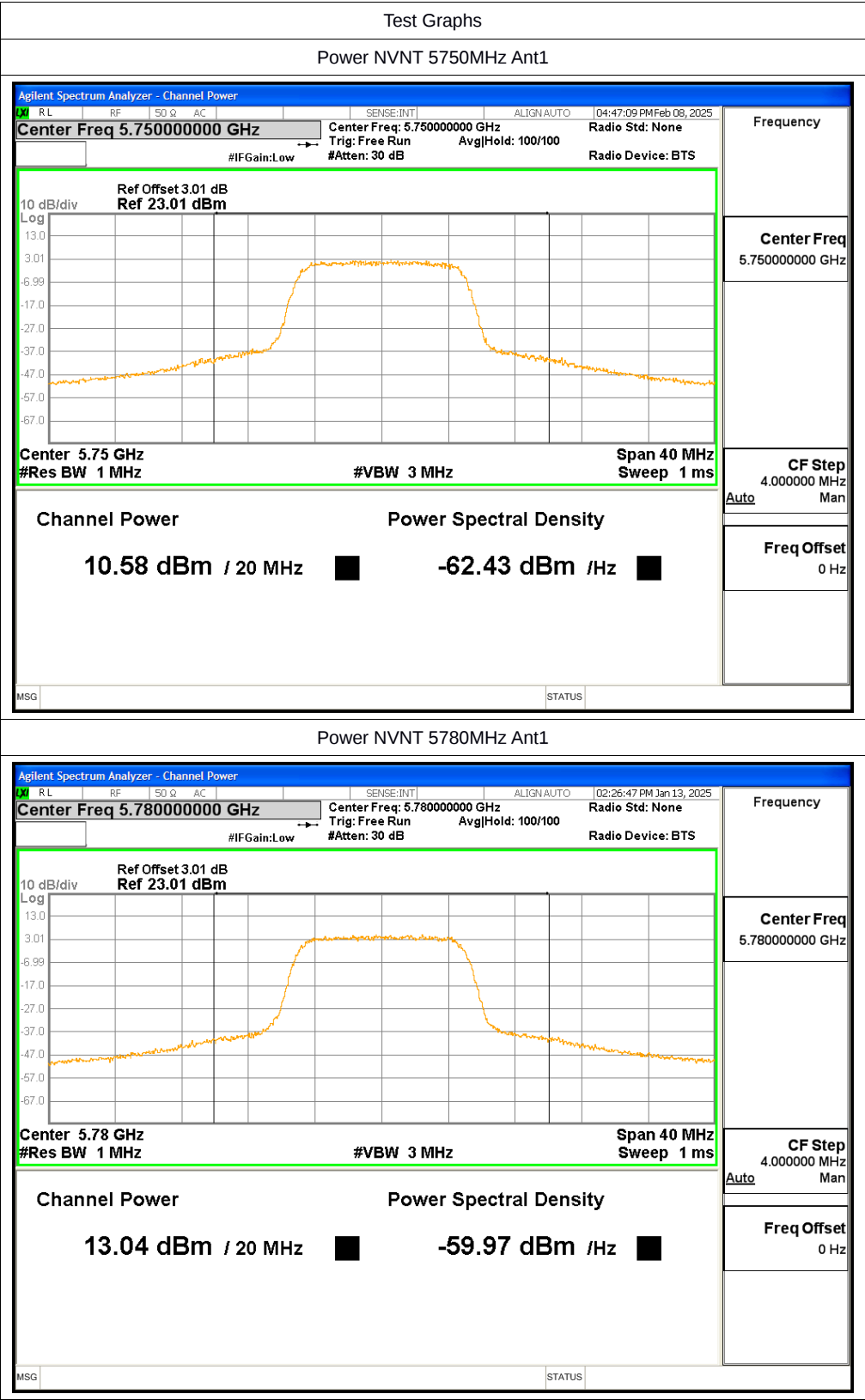
10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5750	Ant1	10.58	5.24	15.82	30	Pass
		5780		13.04	5.24	18.28	30	Pass
		5820		12.9	5.24	18.14	30	Pass
		5750	Ant2	12.48	5.24	17.72	30	Pass
		5780		12.01	5.24	17.25	30	Pass
		5820		13.17	5.24	18.41	30	Pass

EUT	Remote Control				Model		Agri-Pro H20	
Mode	10M Bandwidth				Test Voltage		DC3.7V	
Temperature	24 deg. C,				Humidity		56% RH	
Frequency (MHz)	Ant 1 Power		Ant 2 Power		Total Max. Power Output -MIMO (dBm)	Power Limit (dBm)	Pass/ Fail	
	dBm	mW	dBm	mW				
5750	15.82	38.19	17.72	59.16	19.88	30	Pass	
5780	18.28	67.30	17.25	53.09	20.81	30	Pass	
5820	18.14	65.16	18.41	69.34	21.29	30	Pass	

Note: 1. The result basic equation calculation as follow:
Average Power Output = AV Power Reading + Cable loss + Attenuator
2. The worse case was recorded

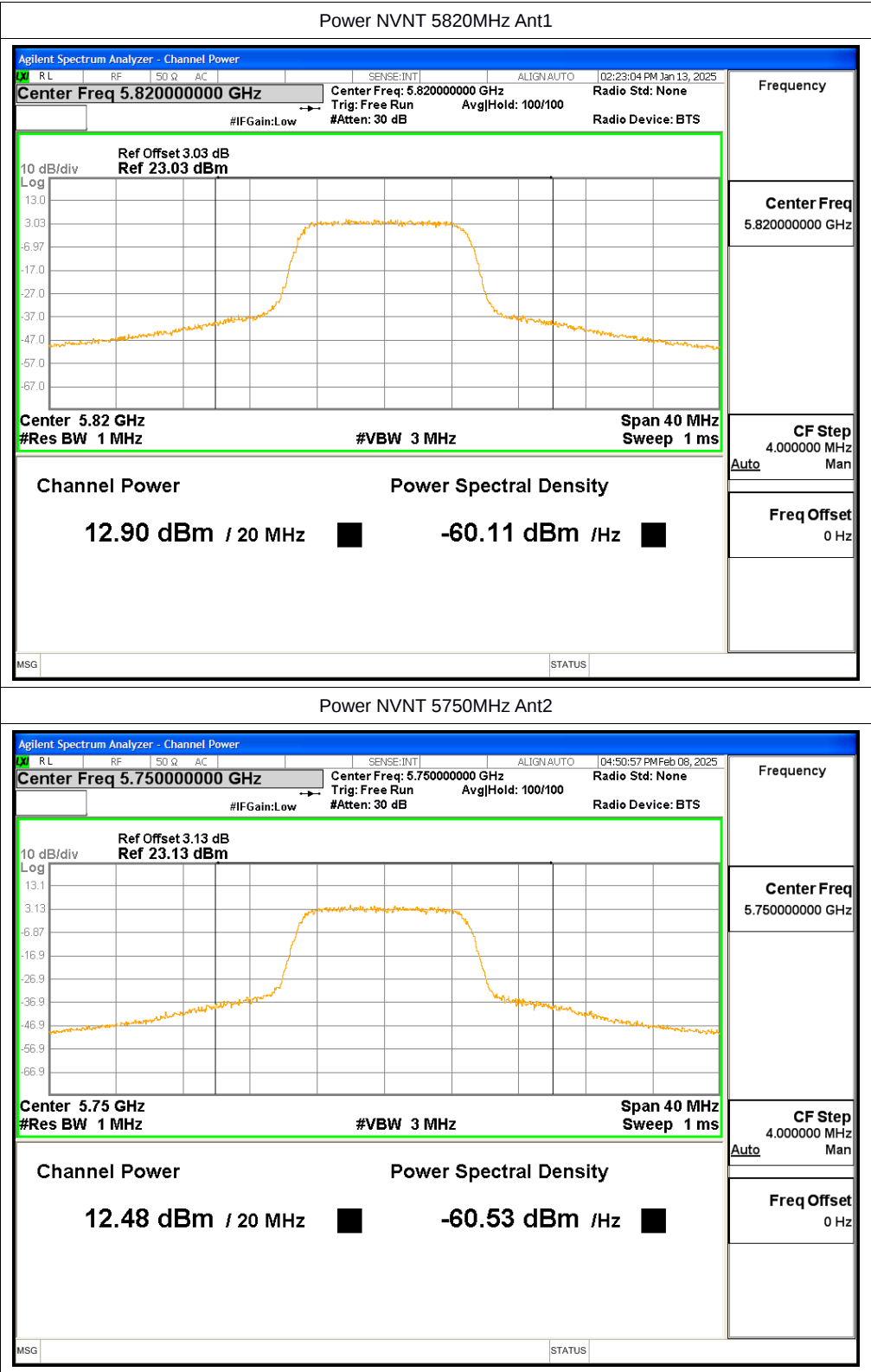
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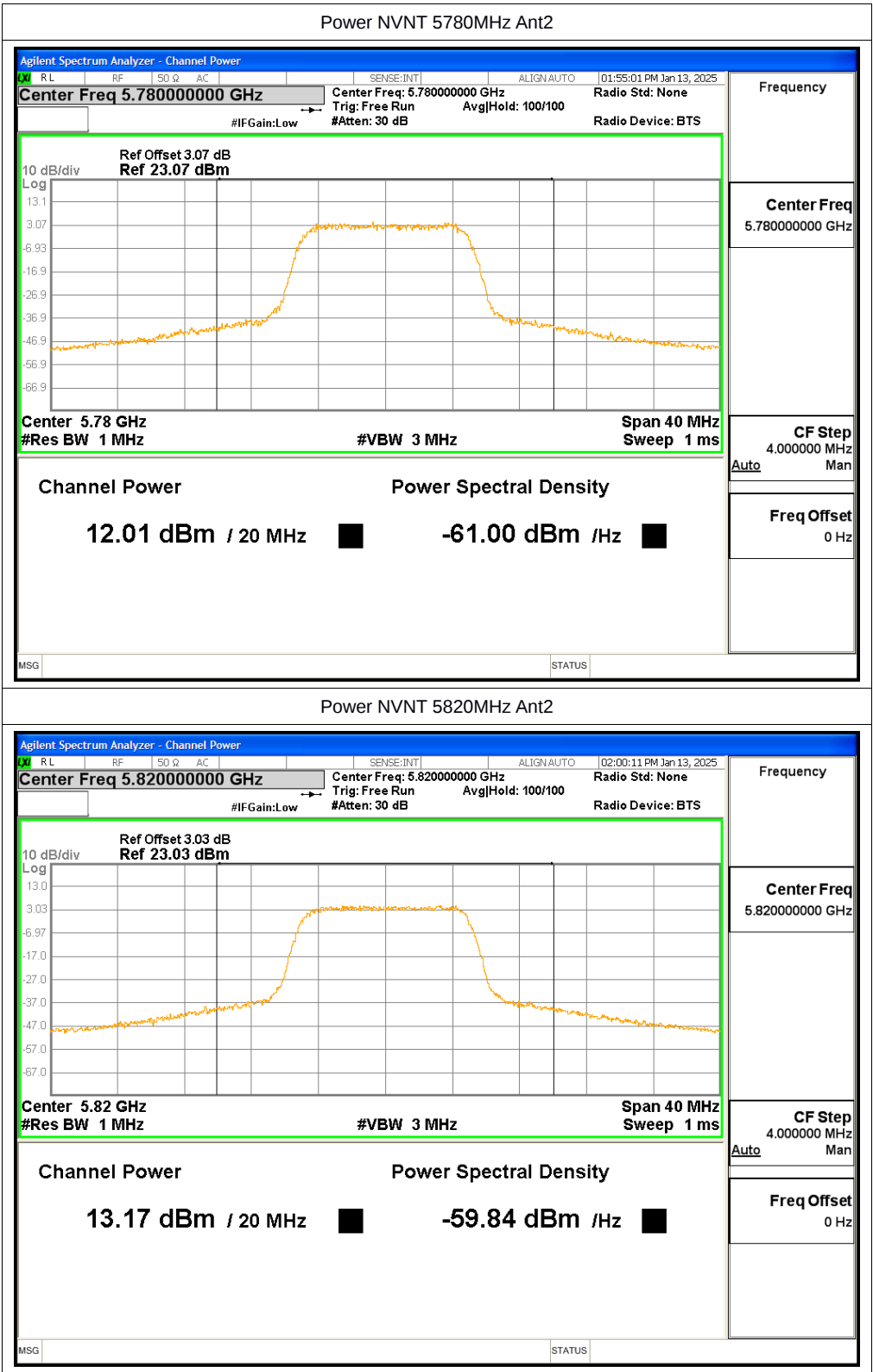
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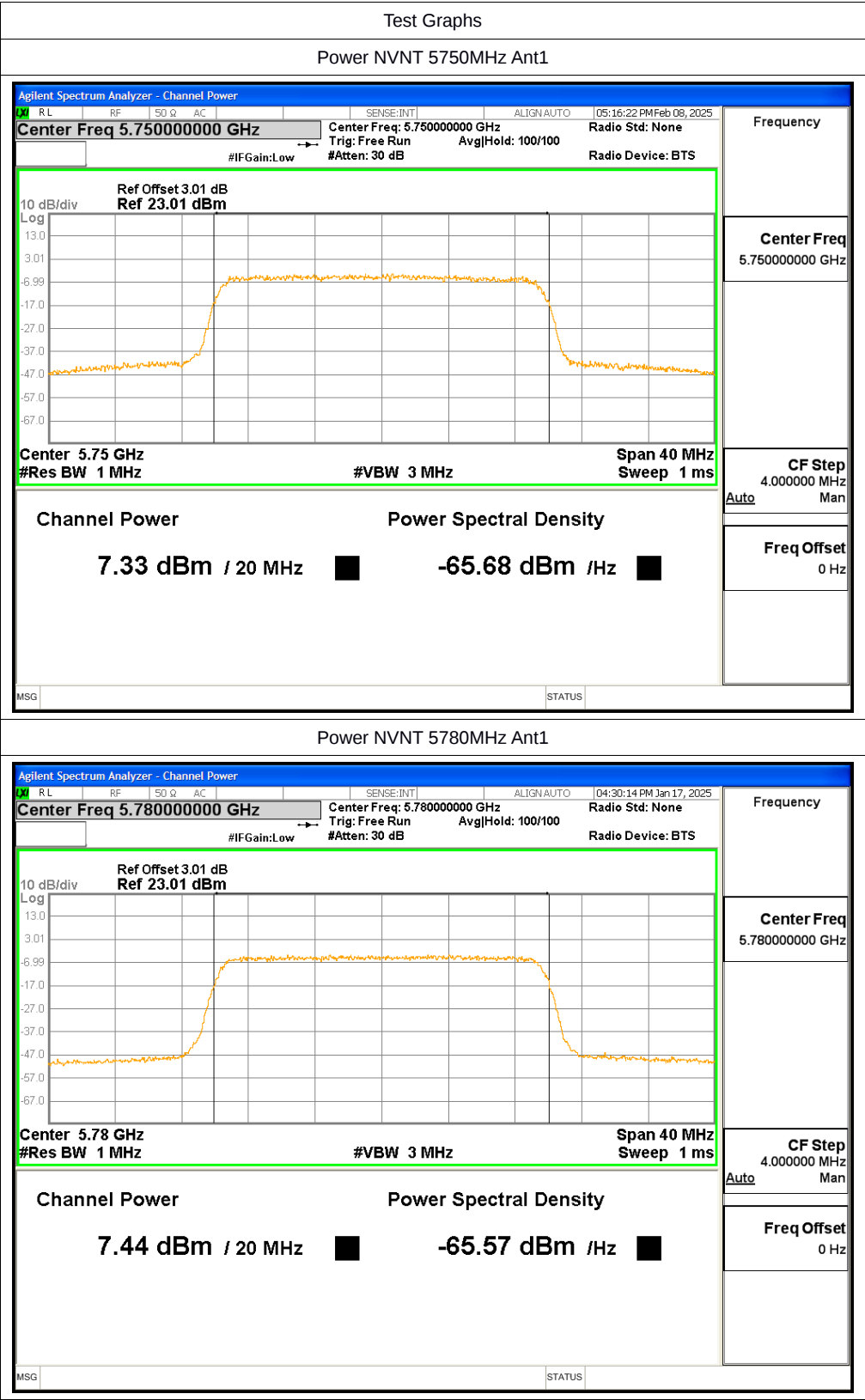
20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5750	Ant1	7.33	5.24	12.57	30	Pass
		5780		7.44	5.24	12.68	30	Pass
		5820		7.52	5.24	12.76	30	Pass
		5750	Ant2	8.33	5.24	13.57	30	Pass
		5780		5.86	5.24	11.1	30	Pass
		5820		6.47	5.24	11.71	30	Pass

EUT	Remote Control				Model		Agri-Pro H20	
Mode	10M Bandwidth				Test Voltage		DC3.7V	
Temperature	24 deg. C,				Humidity		56% RH	
Frequency (MHz)	Ant 1 Power		Ant 2 Power		Total Max. Power Output -MIMO (dBm)	Power Limit (dBm)	Pass/ Fail	
	dBm	mW	dBm	mW				
5750	12.57	18.07	13.57	22.75	16.11	30	Pass	
5780	12.68	18.54	11.1	12.88	14.97	30	Pass	
5820	12.76	18.88	11.71	14.83	15.28	30	Pass	

- Note: 1. The result basic equation calculation as follow:
Power Output = Power Reading + Cable loss + Attenuator
2. The worse case was recorded

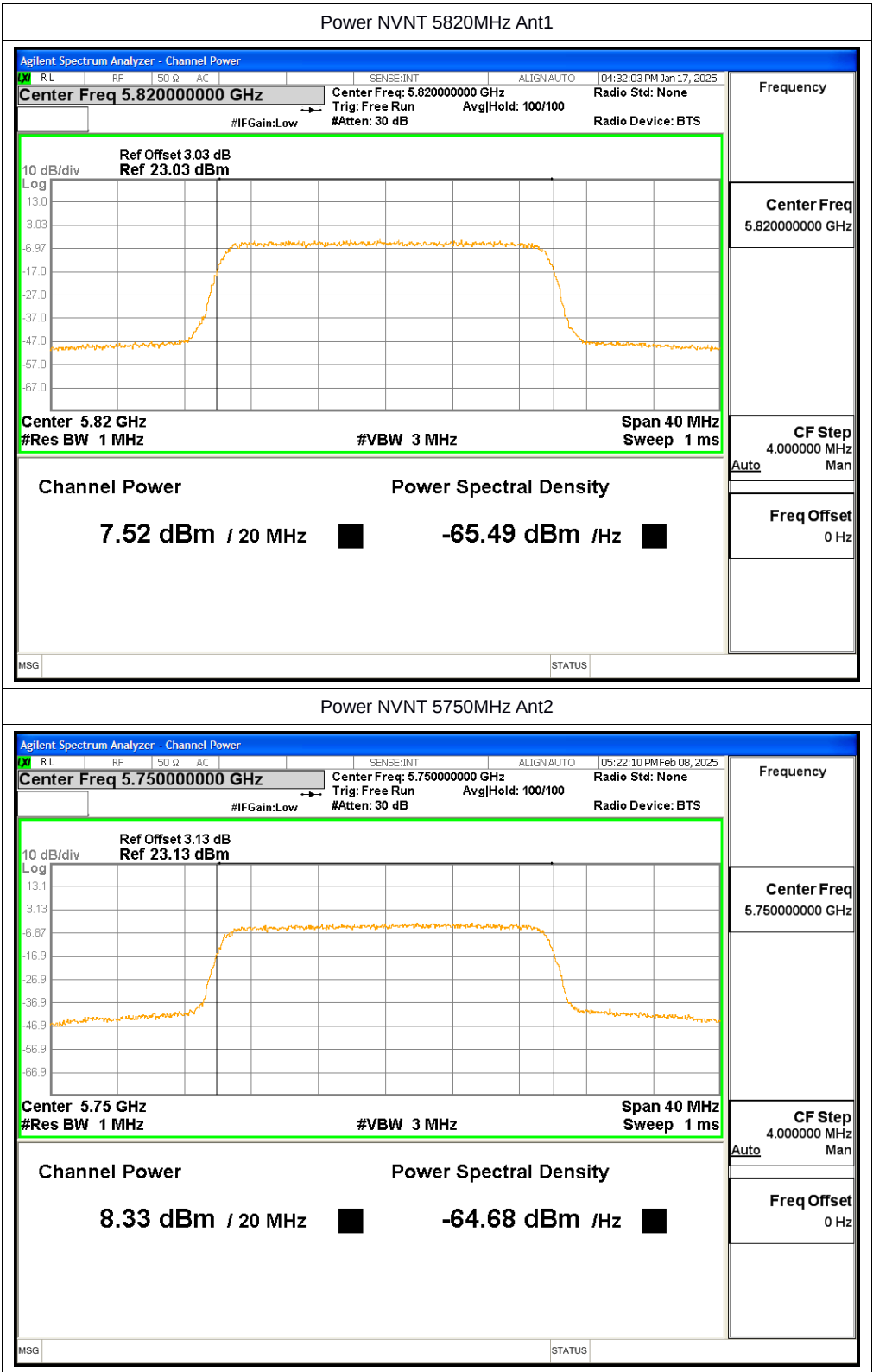
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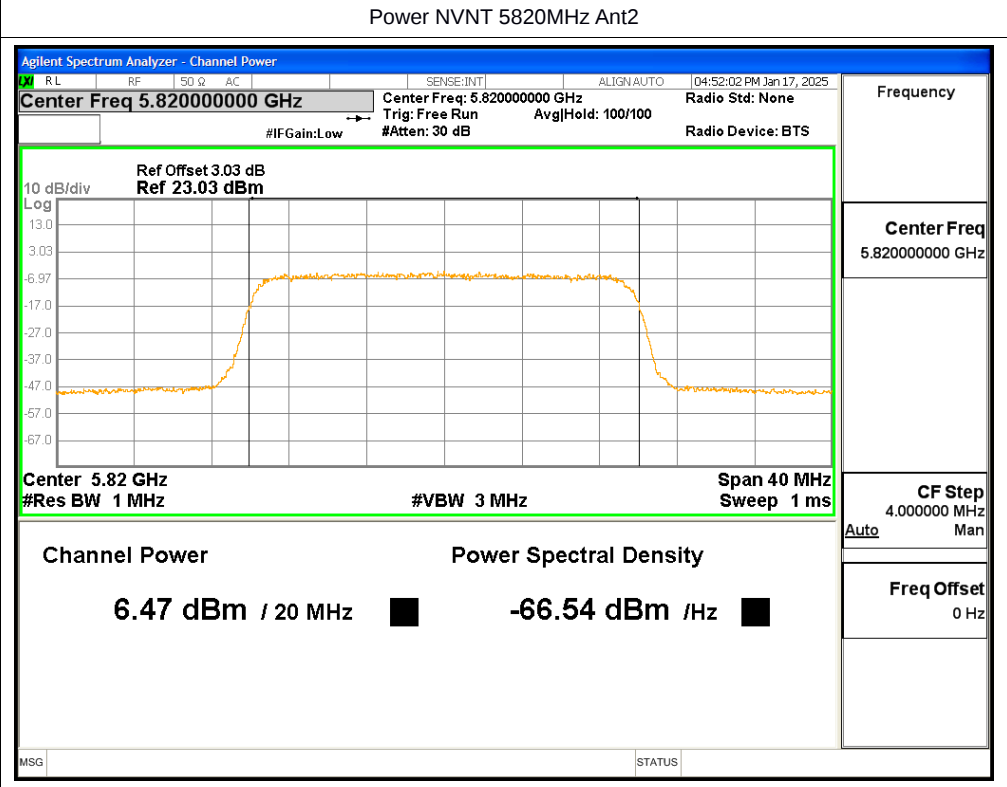
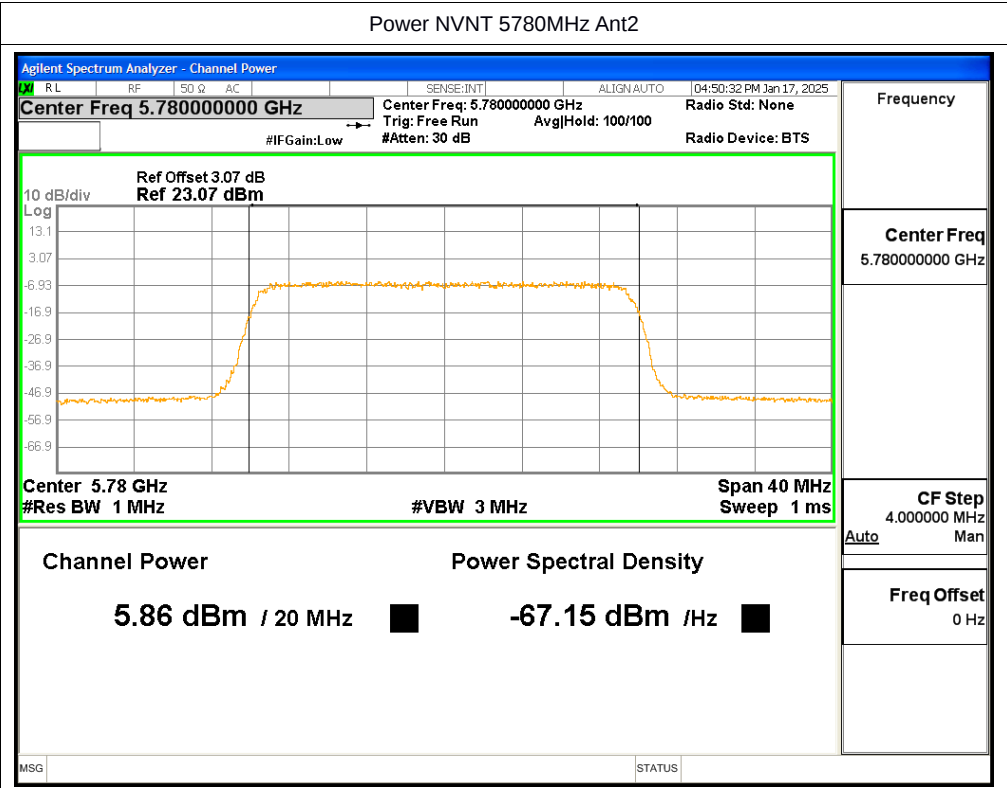
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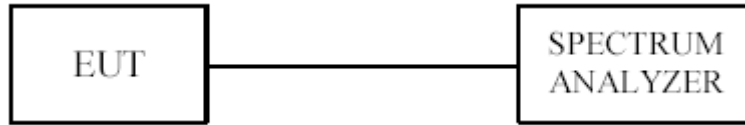
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10. Power Spectral Density Measurement

10.1 Test Setup



10.2 Limits of Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/MHz
U-NII-2A	--		11dBm/MHz
U-NII-2C	--		11dBm/MHz
U-NII-3	✓		30dBm/500kHz

10.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 510kHz
3. Set the VBW = 1.5MHz
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

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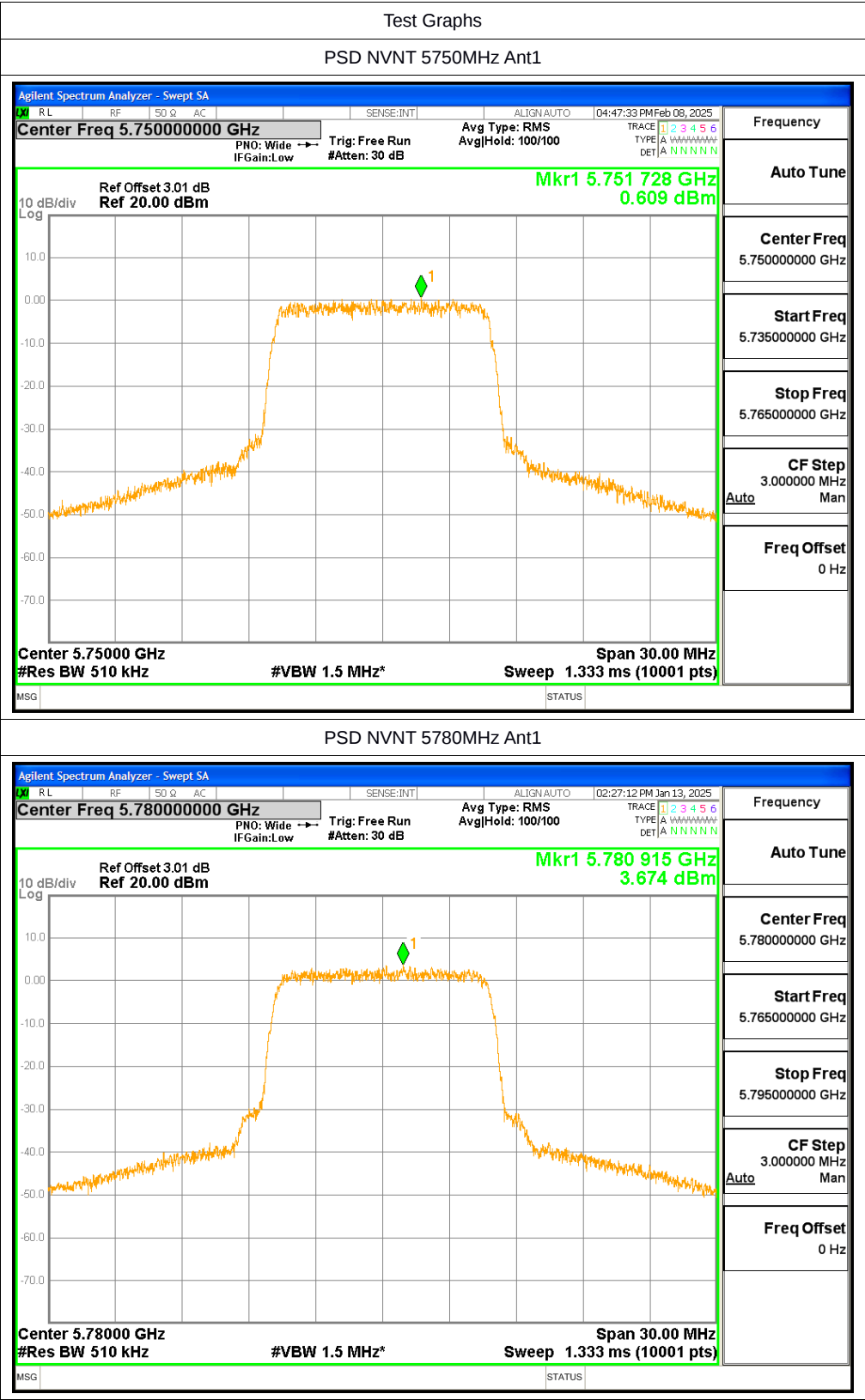


10.4Test Result
10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/510kHz)	Duty Factor (dB)	Total PSD (dBm/510kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5750	Ant1	0.61	5.24	5.85	30	Pass
		5780		3.67	5.24	8.91	30	Pass
		5820		4.4	5.24	9.64	30	Pass
		5750	Ant2	1.6	5.24	6.84	30	Pass
		5780		4.81	5.24	10.05	30	Pass
		5820		4.94	5.24	10.18	30	Pass

EUT	Remote Control		Model	Agri-Pro H20	
Mode	10M Bandwidth		Test Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Frequency (MHz)	Ant 1 PSD	Ant 2 PSD	Total Max. Power PSD -MIMO (dBm/510kHz)	PSD Limit (dBm/500kHz)	Pass/ Fail
	dBm/510kHz	dBm/510kHz			
5750	5.85	6.84	9.38	30	Pass
5780	8.91	10.05	12.53	30	Pass
5820	9.64	10.18	12.93	30	Pass

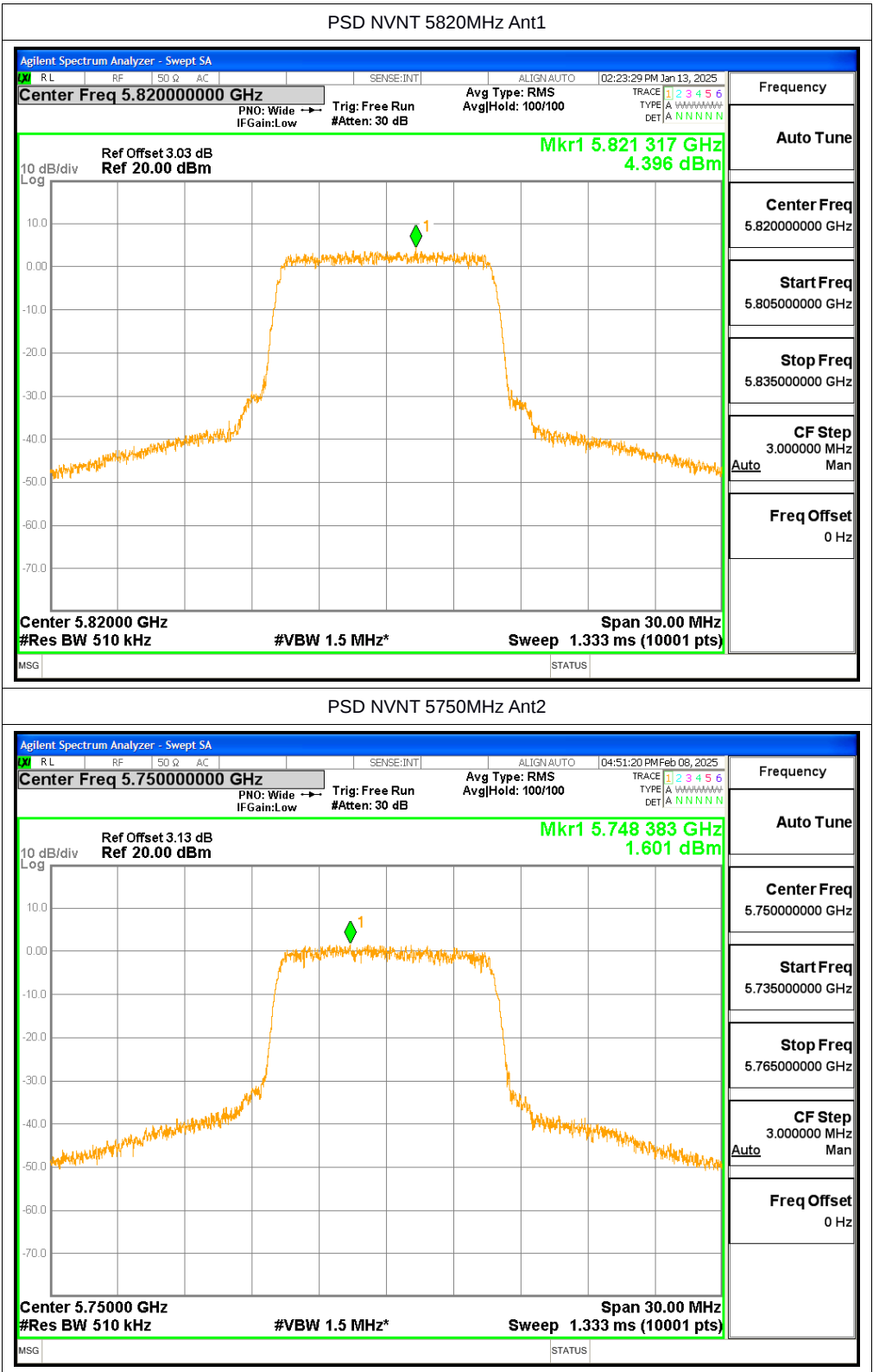
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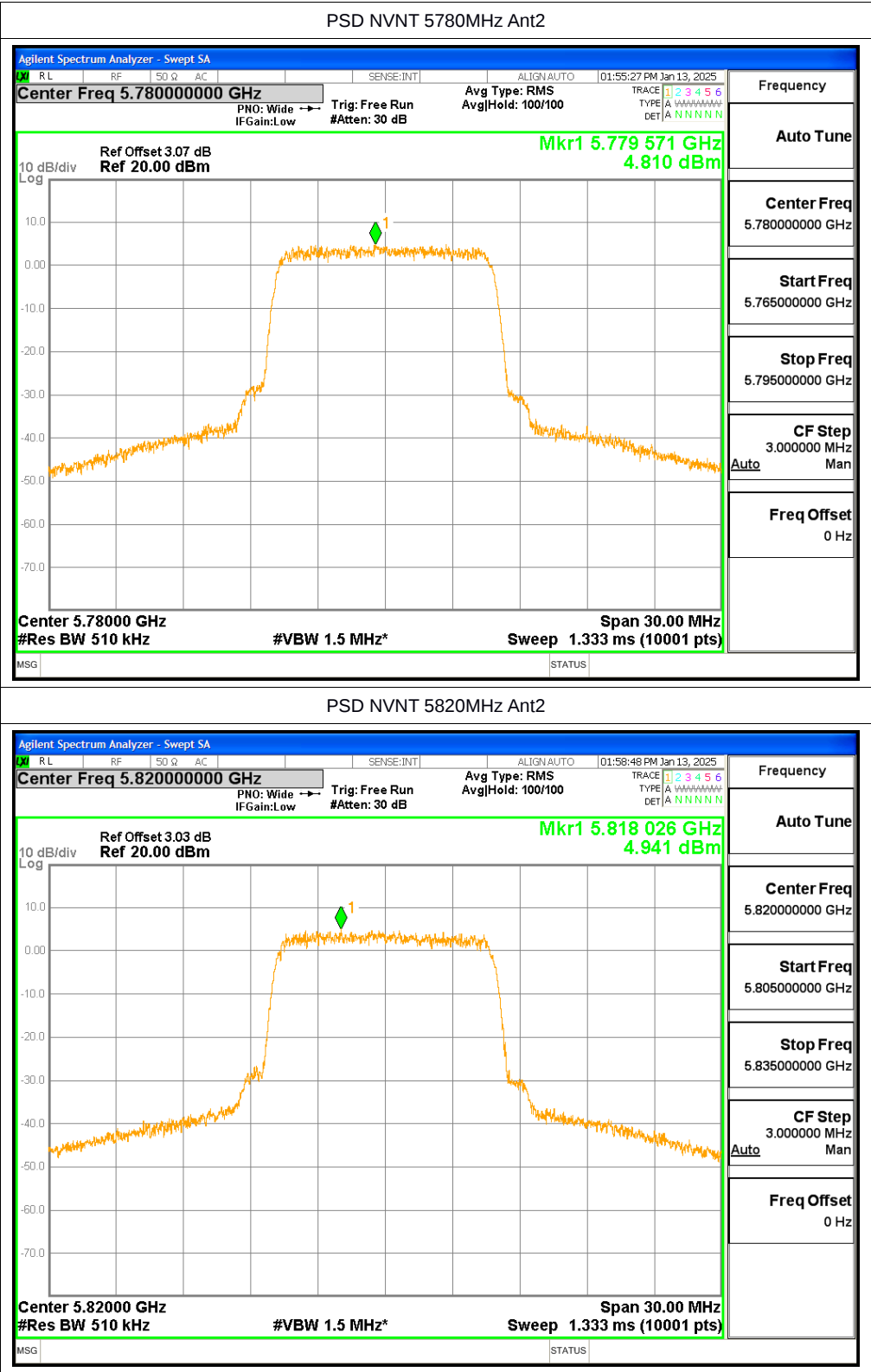
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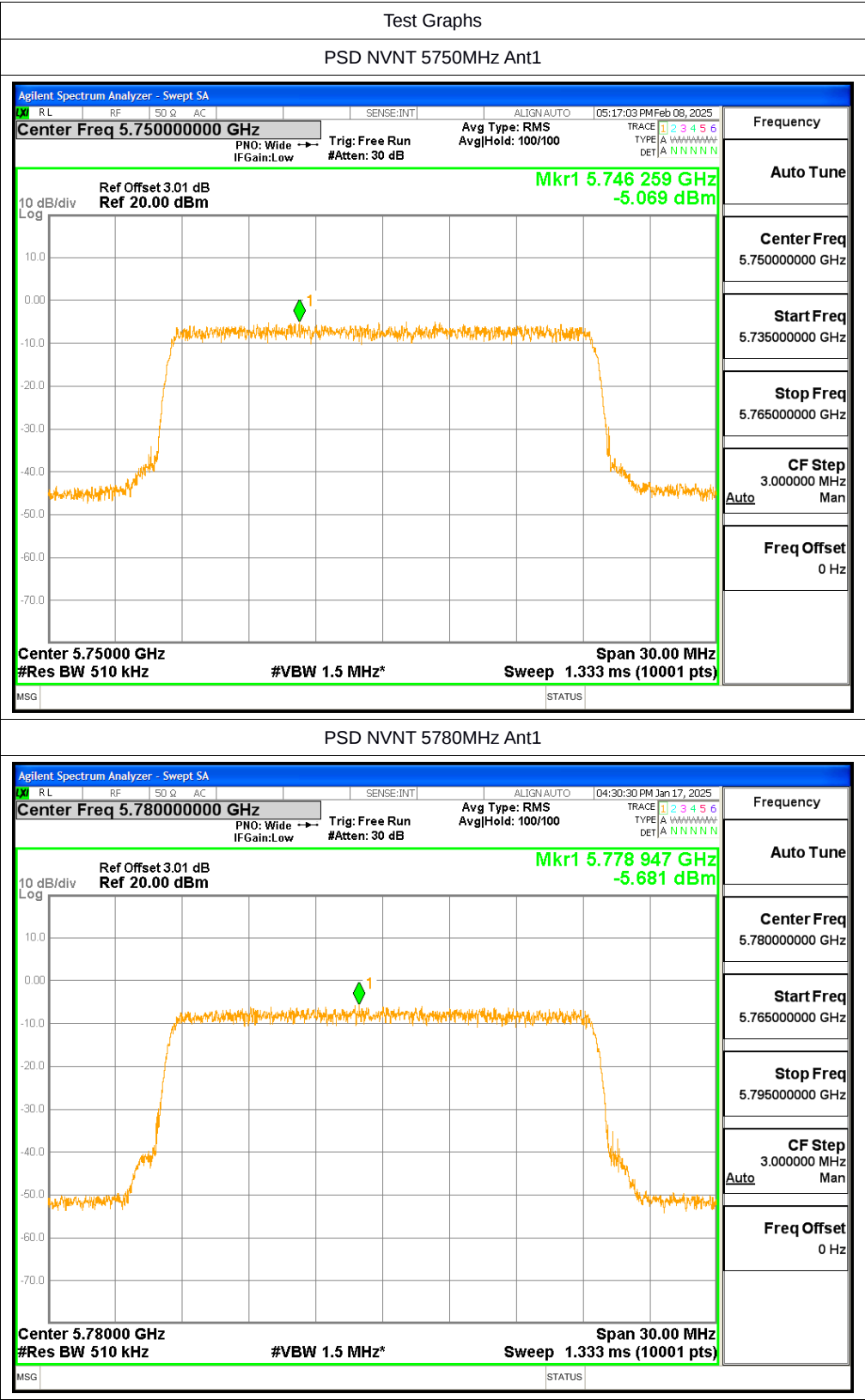


20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/510kHz)	Duty Factor (dB)	Total PSD (dBm/510kHz)	Limit (dBm/500kHz)	Verdict
NVNT	a	5750	Ant1	-5.07	5.24	0.17	30	Pass
		5780		-5.68	5.24	-0.44	30	Pass
		5820		-5.13	5.24	0.11	30	Pass
		5750	Ant2	-4.73	5.24	0.51	30	Pass
		5780		-7.1	5.24	-1.86	30	Pass
		5820		-6.69	5.24	-1.45	30	Pass

EUT	Remote Control		Model	Agri-Pro H20	
Mode	20M Bandwidth		Test Voltage	DC3.7V	
Temperature	24 deg. C,		Humidity	56% RH	
Frequency (MHz)	Ant 1 PSD	Ant 2 PSD	Total Max. Power PSD -MIMO (dBm/510kHz)	PSD Limit (dBm/500kHz)	Pass/ Fail
	dBm/510kHz	dBm/510kHz			
5750	0.17	0.17	3.35	30	Pass
5780	-0.44	-0.44	1.92	30	Pass
5820	0.11	0.11	2.41	30	Pass

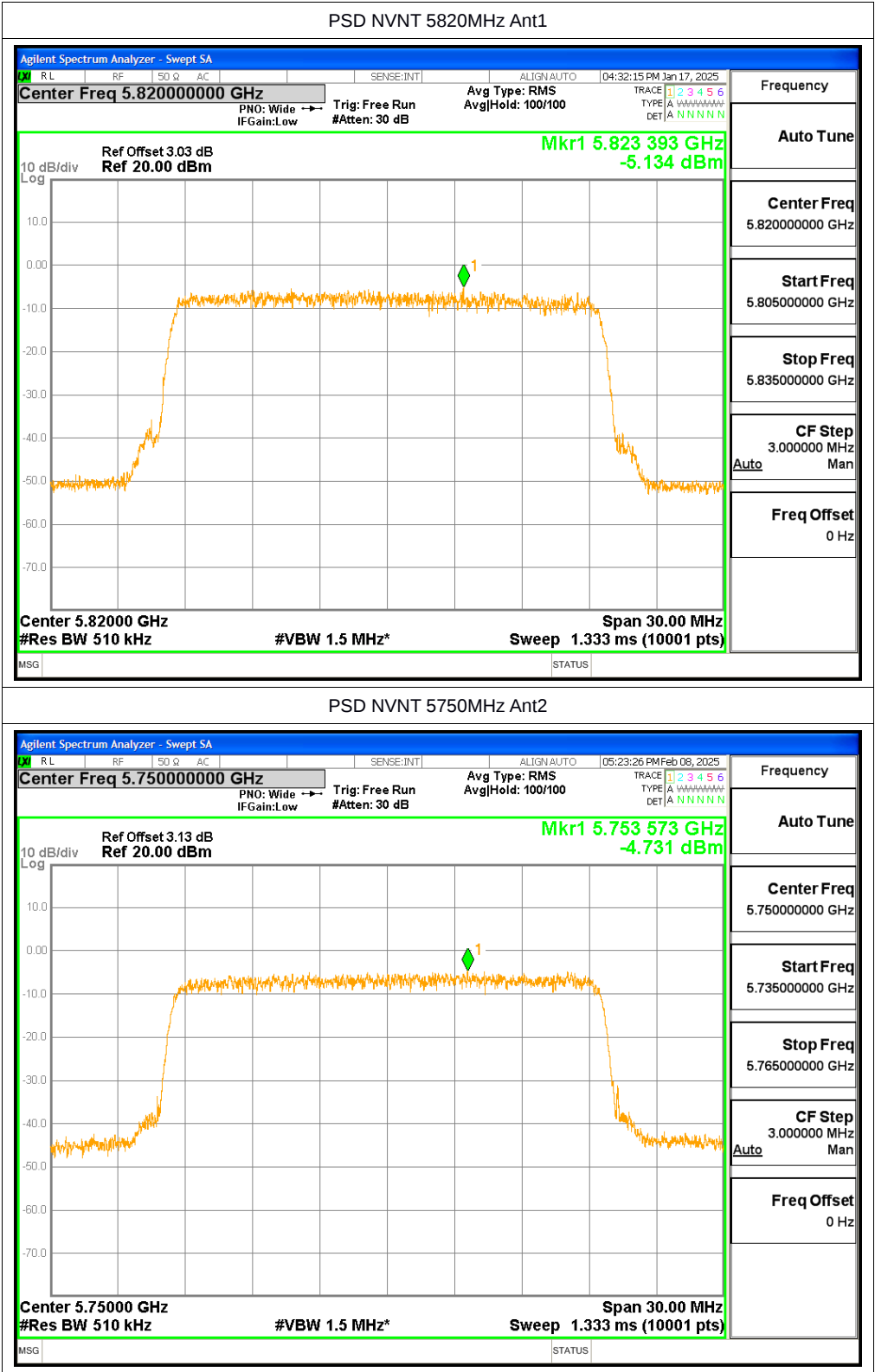
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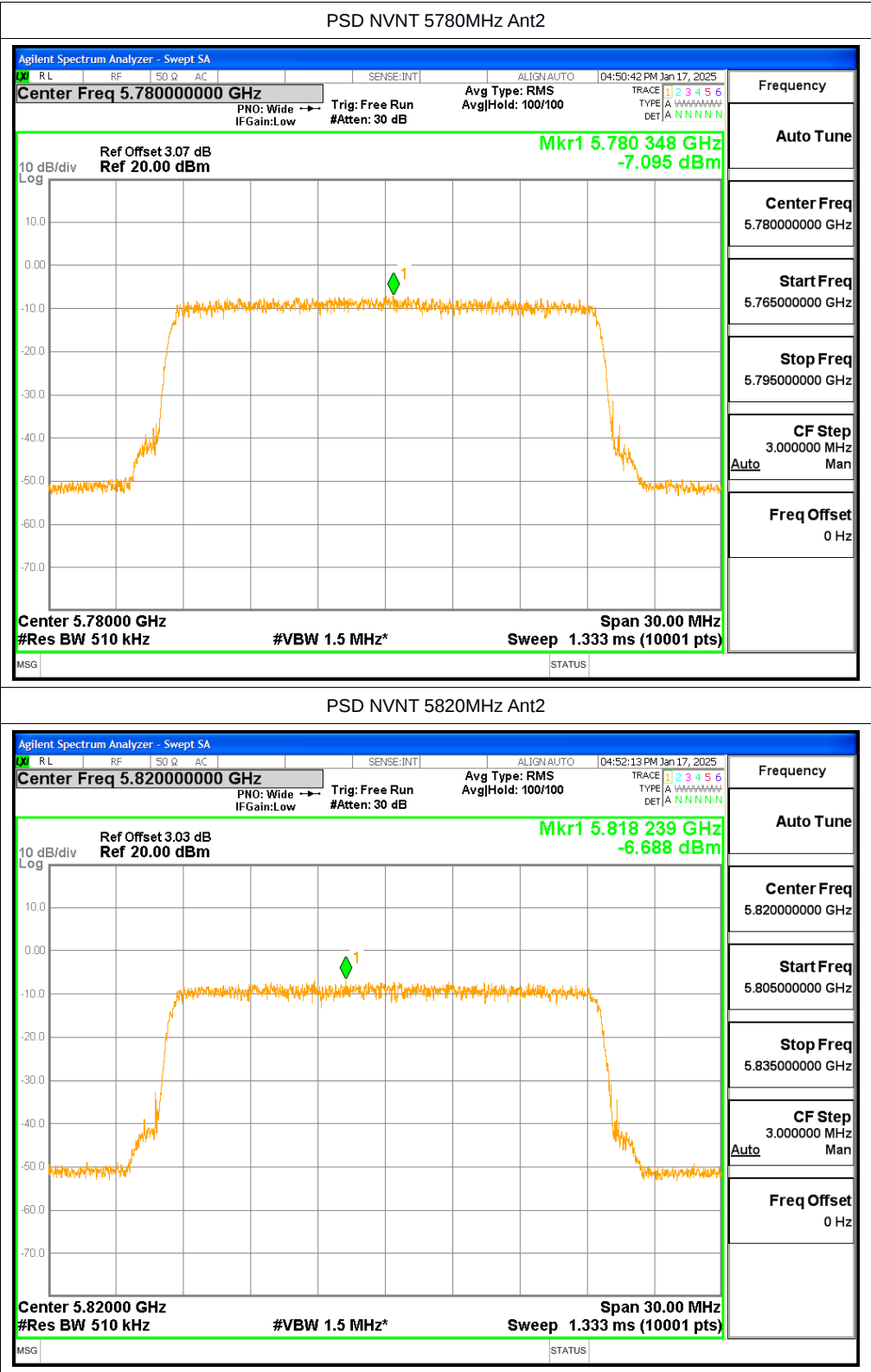
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11.0 Frequency Stability

11.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.02\%$ of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees

11.2 Test Procedure

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at $+20$ degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

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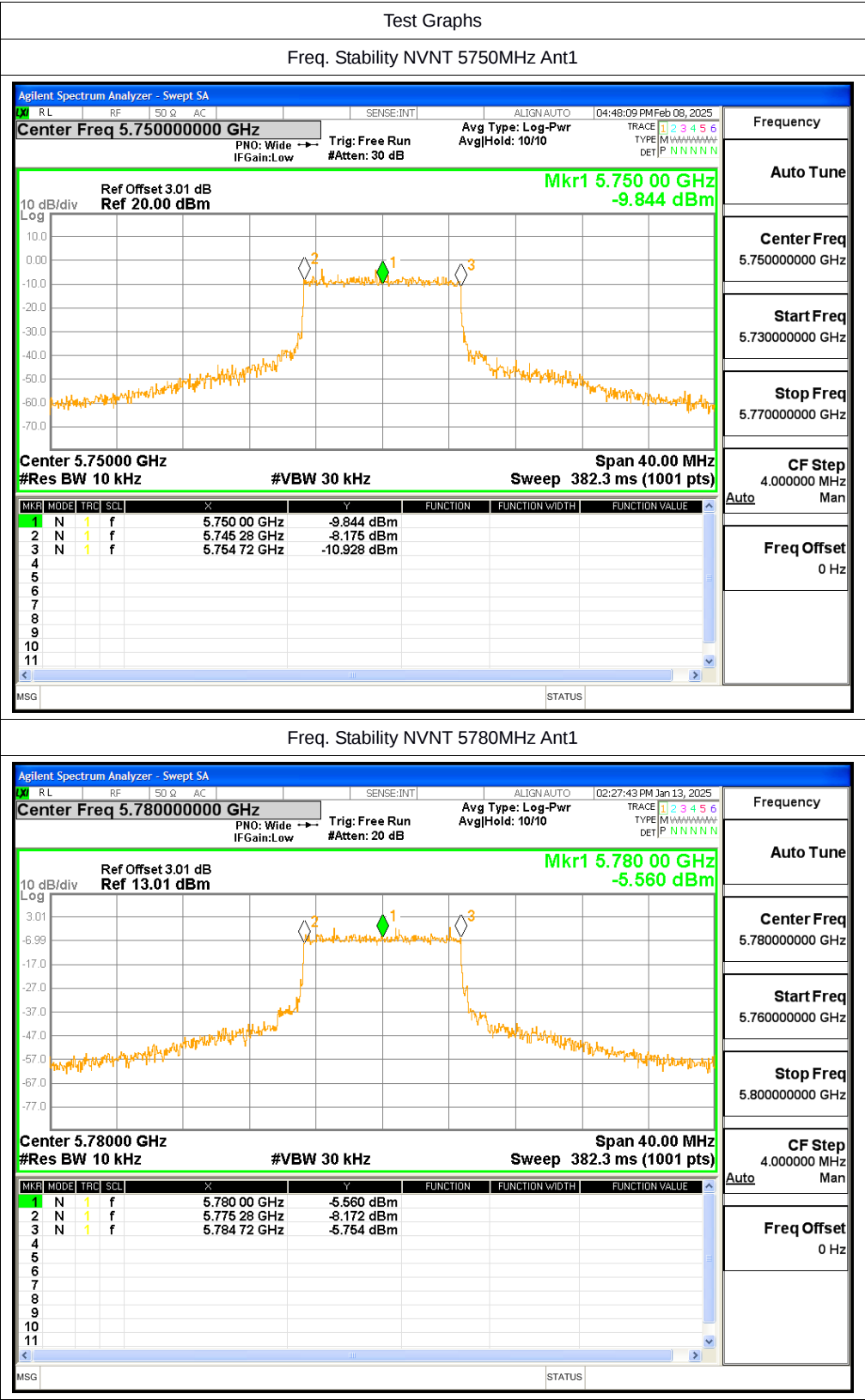
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11.3 Test Result
10M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5750	Ant1	5750	0	0	25	Pass
		5780		5780	0	0	25	Pass
		5820		5820	0	0	25	Pass
		5750	Ant2	5750	0	0	25	Pass
		5780		5780	0	0	25	Pass
		5820		5820	0	0	25	Pass

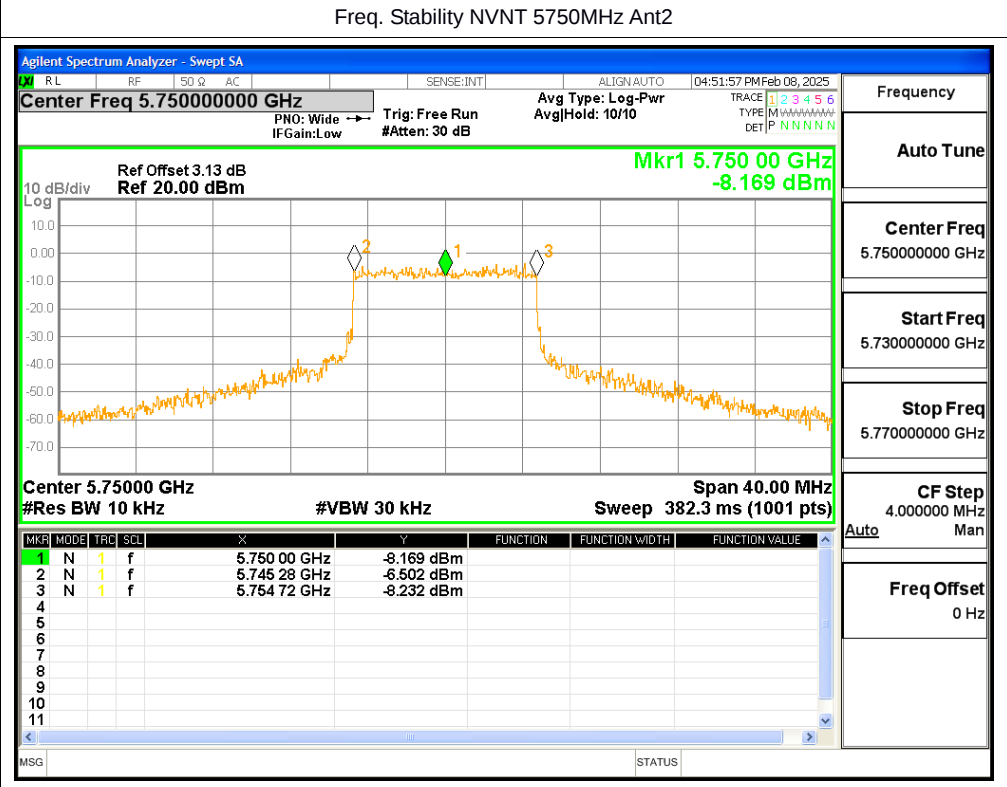
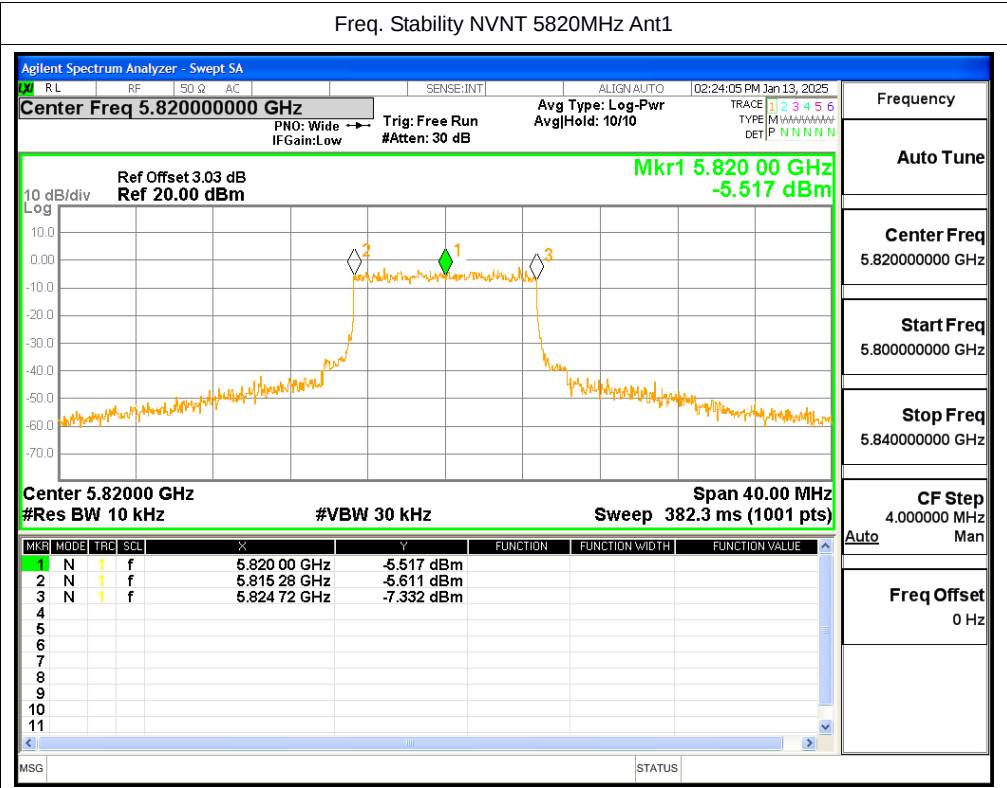
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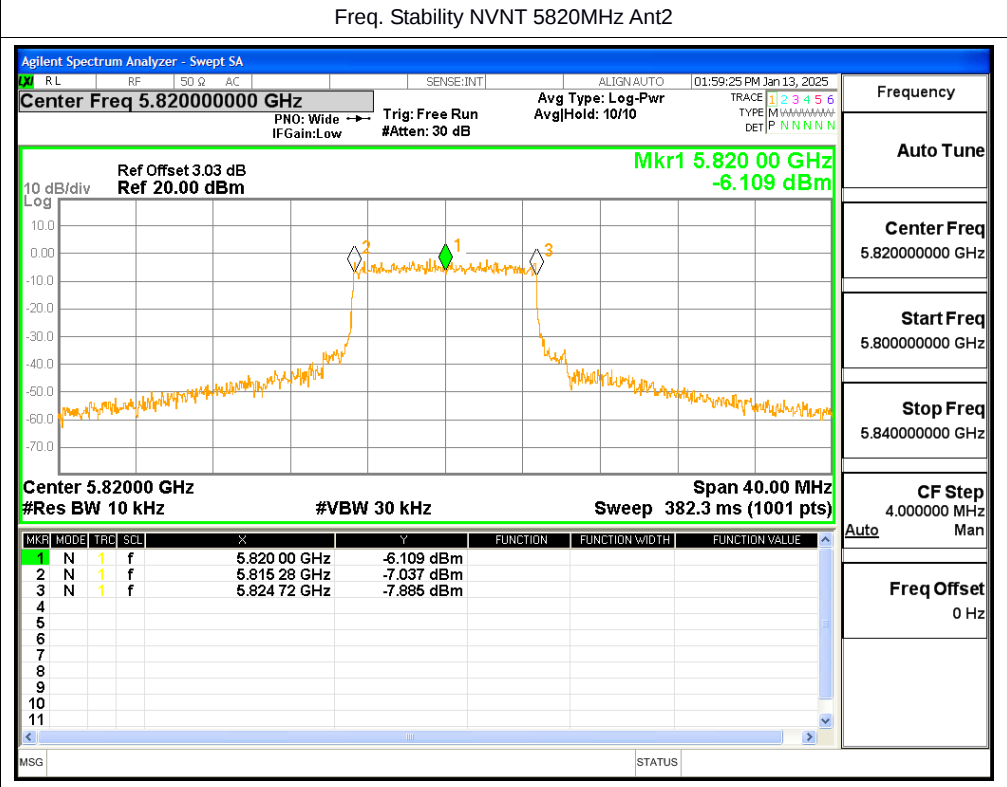
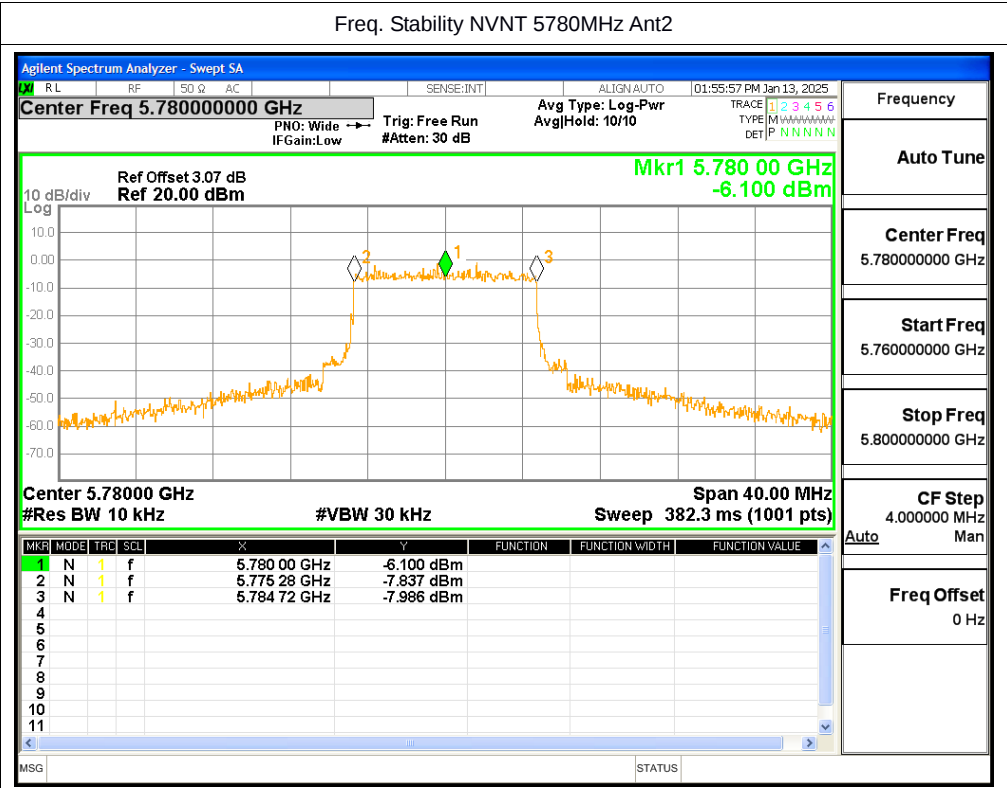
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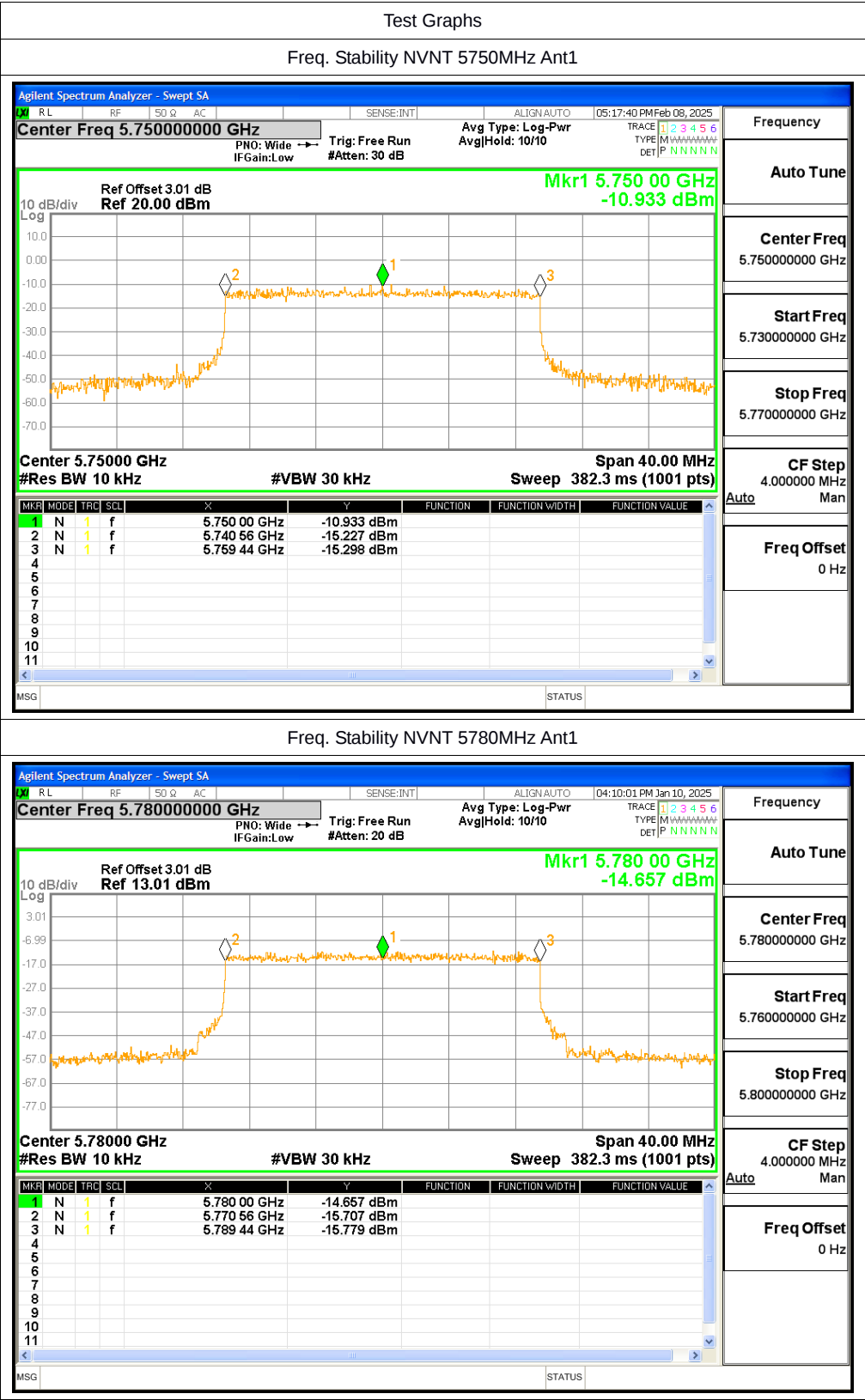
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20M Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5750	Ant1	5750	0	0	25	Pass
		5780		5780	0	0	25	Pass
		5820		5820	0	0	25	Pass
		5750	Ant2	5750	0	0	25	Pass
		5780		5780	0	0	25	Pass
		5820		5820	0	0	25	Pass

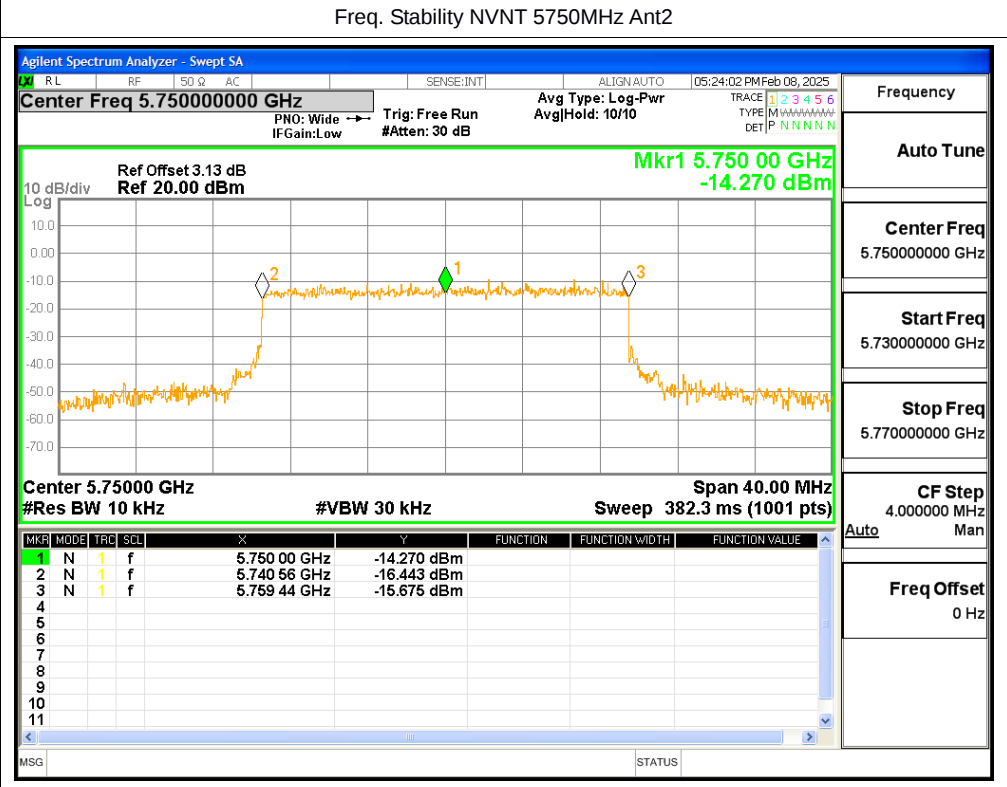
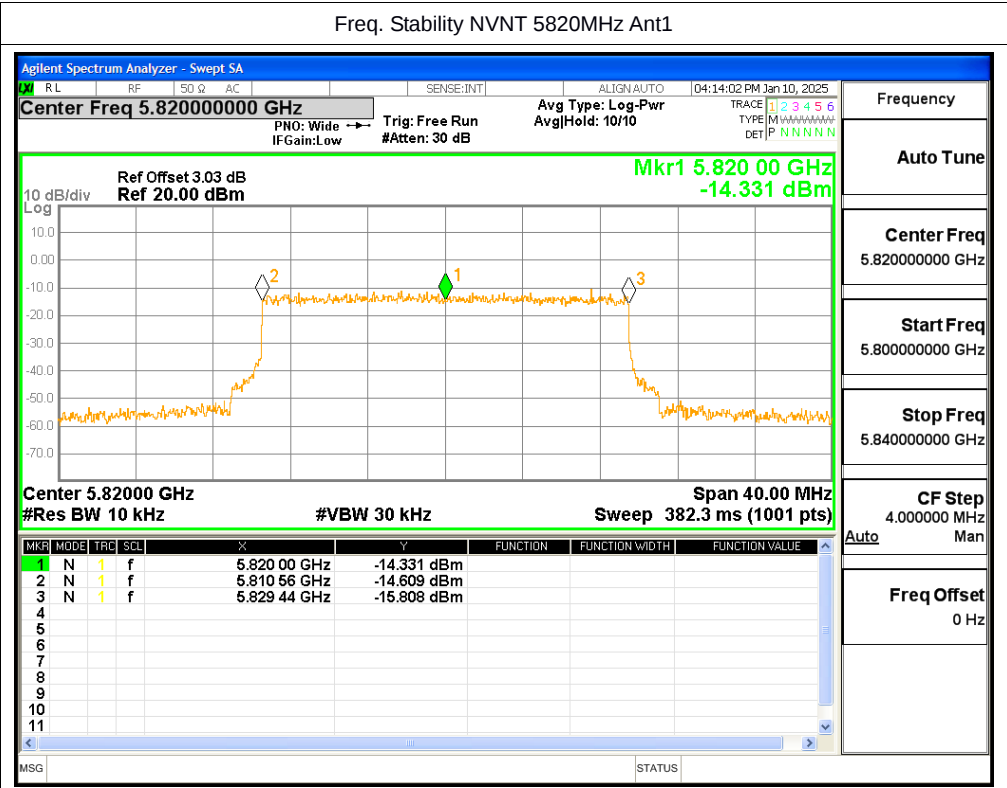
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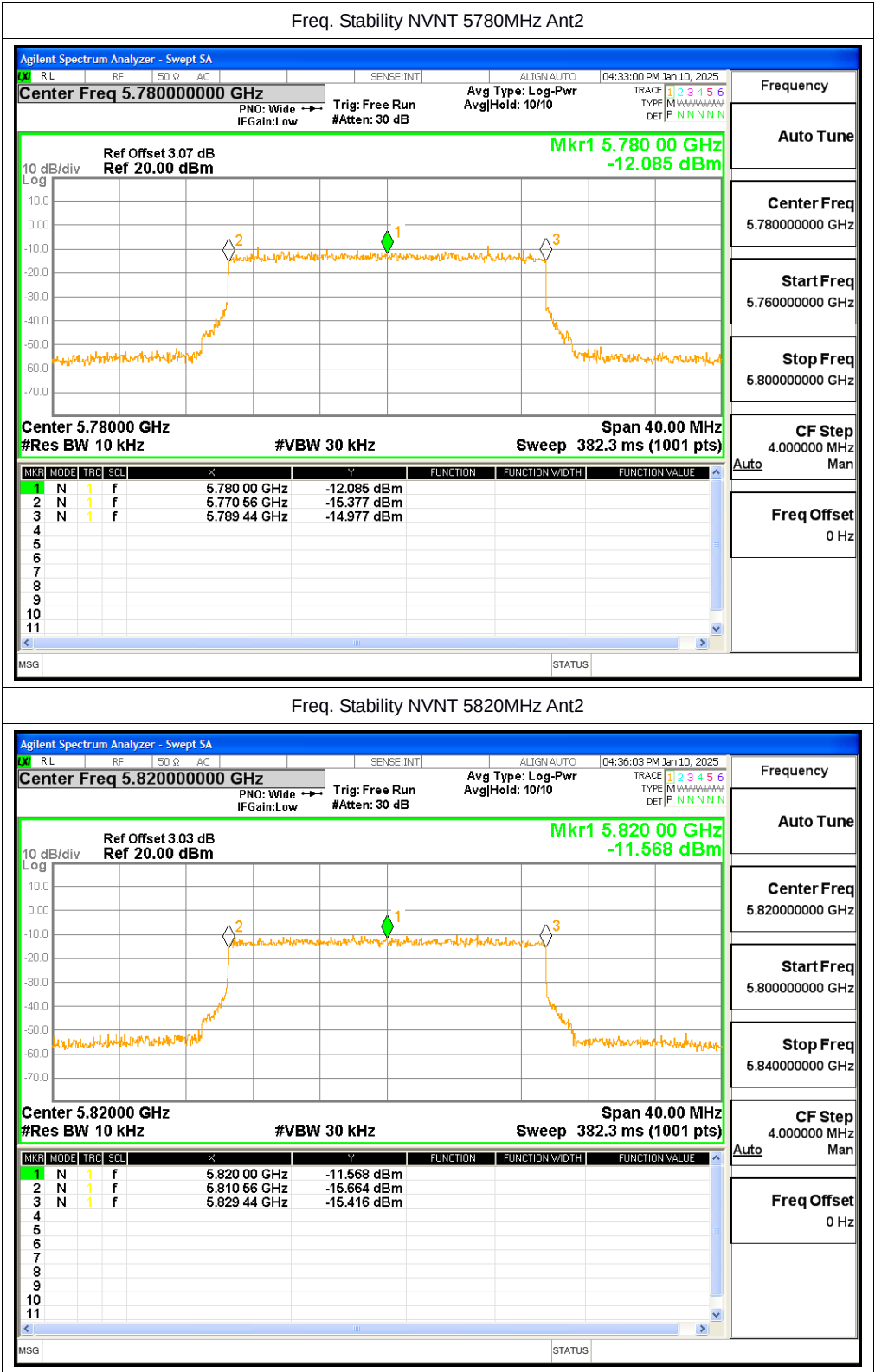
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12.0 Antenna Requirement

12.1 Standard Applicable

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

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

12.2 Antenna Connected construction

Dipole antennas used. The gain of the antennas is 2.73dBi maximum for each one. (Get from the antenna specification provided the applicant)

The report refers only to the sample tested and does not apply to the bulk.

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In the event of the improper use of the report. The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



13.0 FCC ID Label

FCC ID: 2BM3J-H20

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

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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14.0 Photo of testing

Conducted Emission Test Setup:



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Radiated Emission Test Setup



Photos of EUT

Please see test report TW2501110-01E

--End of the report--

The report refers only to the sample tested and does not apply to the bulk.

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