



Report No.: TWN2607816E

Applicant: Shenzhen Potensic Intelligent Co., Ltd.

Product: TR1 Remote controller

Model No.: TR1, TR2, TR3, TR4, TR5

Trademark: N/A

FCC ID: 2BK8B-TR1

Test Standards: FCC Part 15.247

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

Approved By

Terry Tang

Terry Tang

Manager

Dated: August 07, 2026



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

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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.

ISED —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of ISED 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

FCC Designation Number: CN1251

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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

1.2 Applicant Details

Applicant: Shenzhen Potensic Intelligent Co., Ltd.
Address: 7/F, Building A5, Nanshan Intelligent Park, Nanshan District, Shenzhen, China

1.3 Description of EUT

Product: TR1 Remote controller
Manufacturer: Shenzhen Potensic Intelligent Co., Ltd.
Address: 7/F, Building A5, Nanshan Intelligent Park, Nanshan District, Shenzhen, China
Trademark: N/A
Additional Trademark: N/A
Model Number: TR1
Additional Model Number: TR2, TR3, TR4, TR5
Hardware Version: HM-JY-P7T-V2.0
Software Version: A23-RX-V2.0
Serial No.: TR1000008800XXXXX
Type of Modulation: GFSK
Frequency range: 2416-2475MHz
Channel Separation: 1MHz
Channel Number: 60
Rating: Input: DC4.5V
Battery: DC4.5V, 3pcs AAA batteries

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2026-07-28 to 2026-08-06

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 1GHz Uncertainty =4.7dB
Radiated Emissions above 1GHz Uncertainty =6.0dB

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Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: 1. The measurement uncertainty is for coverage factor of $k=2$ and a level of confidence of 95%.

2. The measurement uncertainty is not applied to the test results

1.7 Test Engineer

The sample tested by

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	2026-07-08	2027-07-07
LISN	R&S	EZH3-Z5	100294	2026-07-08	2027-07-07
LISN	R&S	EZH3-Z5	100253	2026-07-08	2027-07-07
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2026-07-08	2027-07-07
Loop Antenna	EMCO	6507	00078608	2026-07-08	2027-07-07
Spectrum	R&S	FSIQ26	100292	2026-07-08	2027-07-07
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2025-07-17	2028-07-16
Horn Antenna	R&S	BBHA 9120D	9120D-631	2025-07-17	2028-07-16
Power meter	Anritsu	ML2487A	6K00003613	2026-07-08	2027-07-07
Power sensor	Anritsu	MA2491A	32263	2026-07-08	2027-07-07
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2025-07-17	2028-07-16
9*6*6 Anechoic	--	--	N/A	2025-07-11	2028-07-10
EMI Test Receiver	RS	ESVB	826156/011	2026-07-08	2027-07-07
EMI Test Receiver	RS	ESCI 3	101496/003	2026-07-08	2027-07-07
Spectrum	HP/Agilent	E4407B	MY50441392	2026-07-08	2027-07-07
Spectrum	RS	FSP	1164.4391.38	2026-07-08	2027-07-07
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2026-07-08	2027-07-07
RF Cable	Zhengdi	7m	--	2026-07-08	2027-07-07
Pre-Amplifier	Schwarebeck	BBV9743	#218	2026-07-08	2027-07-07
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2026-07-08	2027-07-07
LISN	SCHAFFNER	NNB42	00012	2026-07-08	2027-07-07
ESPI Test Receiver	R&S	ESPI 3	100379	2026-07-08	2027-07-07
LISN	R&S	EZH3-Z5	100294	2026-07-08	2027-07-07
6dB Attenuator	Anritsu	MP721B	--	2026-07-08	2027-07-07

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 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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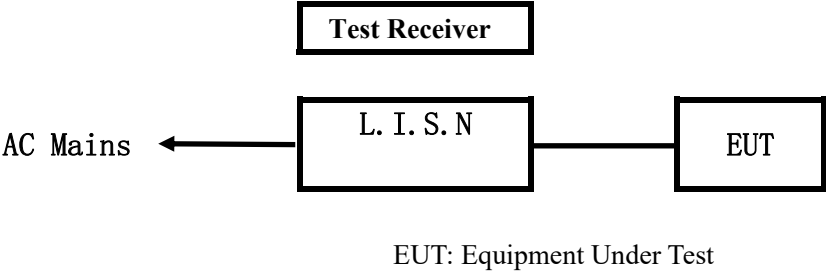
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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

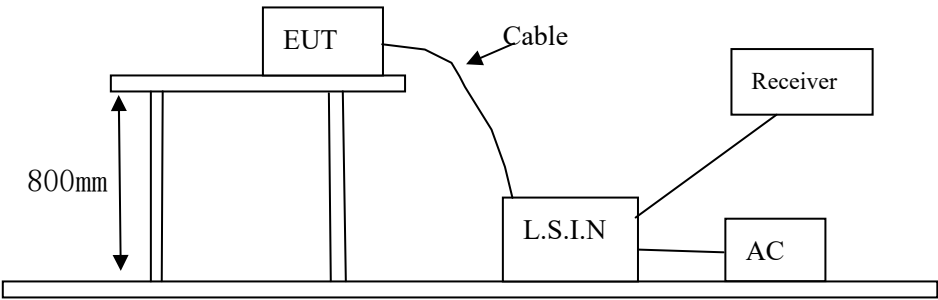


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

Test Voltage: N/A

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
TR1 Remote controller	Shenzhen Potensic Intelligent Co., Ltd.	TR1, TR2, TR3, TR4, TR5	2BK8B-TR1

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B. Internal Device

Device	Manufacturer	Model	Rating

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 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

5.6 Test Results

N/A

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

Note: EUT powered by AAA battery, so this test item not applicable.

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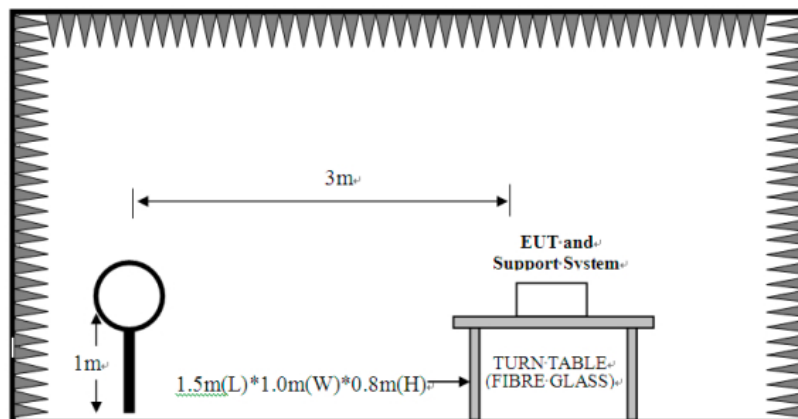
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The radiated test was performed at Timeway EMC 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 C63.10-2020+Cor 1-2023+C63.10a-2024 + Errata to C63.10a-2024.
- (3) The frequency spectrum from 30 MHz to 25 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. AV value with RBW=1MHz, VBW=3MHz and RMS 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



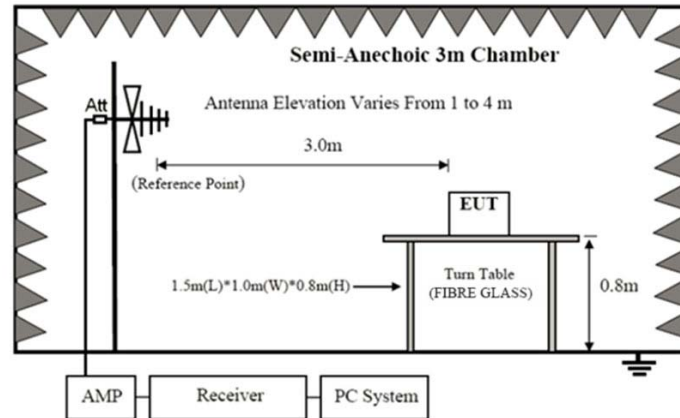
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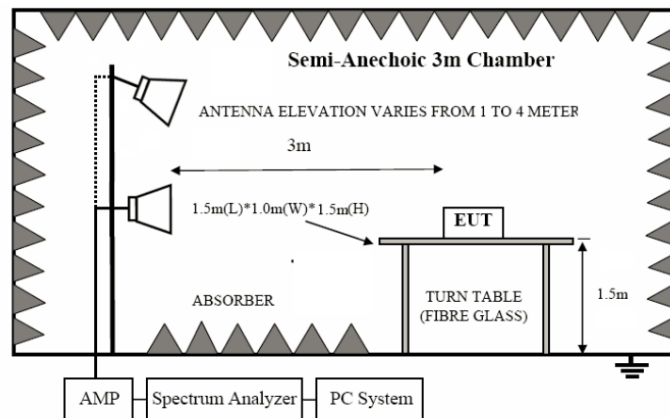
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 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:

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

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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

- 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
 4. New battery was used during the test.
 5. For the radiated emissions from 30MHz-1000MHz, only the worst case was recorded and the middle channel (2445MHz) was the worst case.
 6. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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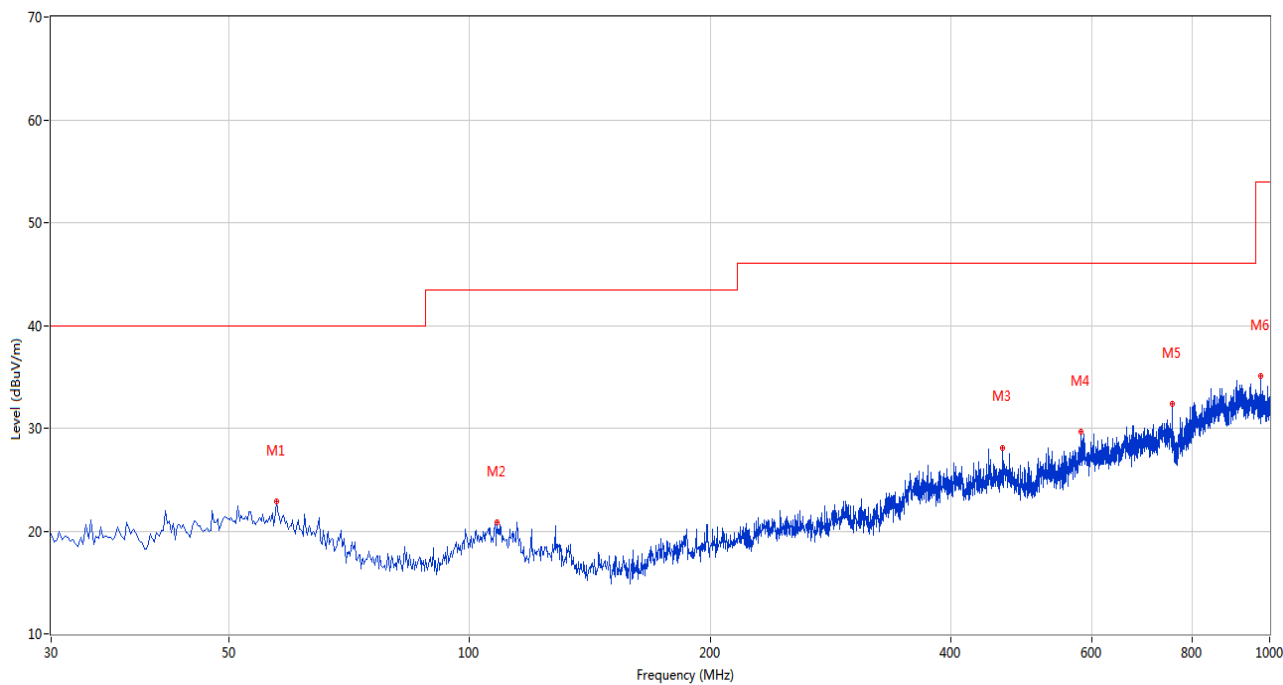


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: Keep Bluetooth Transmitting
Test Channel: Middle (2445MHz)
Results: Pass

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.403	22.91	-8.38	40.0	17.09	Peak	235.00	100	Horizontal	Pass
2	108.327	20.86	-9.85	43.5	22.64	Peak	90.00	100	Horizontal	Pass
3	463.347	28.11	-3.70	46.0	17.89	Peak	291.00	100	Horizontal	Pass
4	581.687	29.71	-1.68	46.0	16.29	Peak	181.00	100	Horizontal	Pass
5	756.287	32.35	-0.36	46.0	13.65	Peak	83.00	100	Horizontal	Pass
6	974.295	35.09	2.41	54.0	18.91	Peak	354.00	100	Horizontal	Pass

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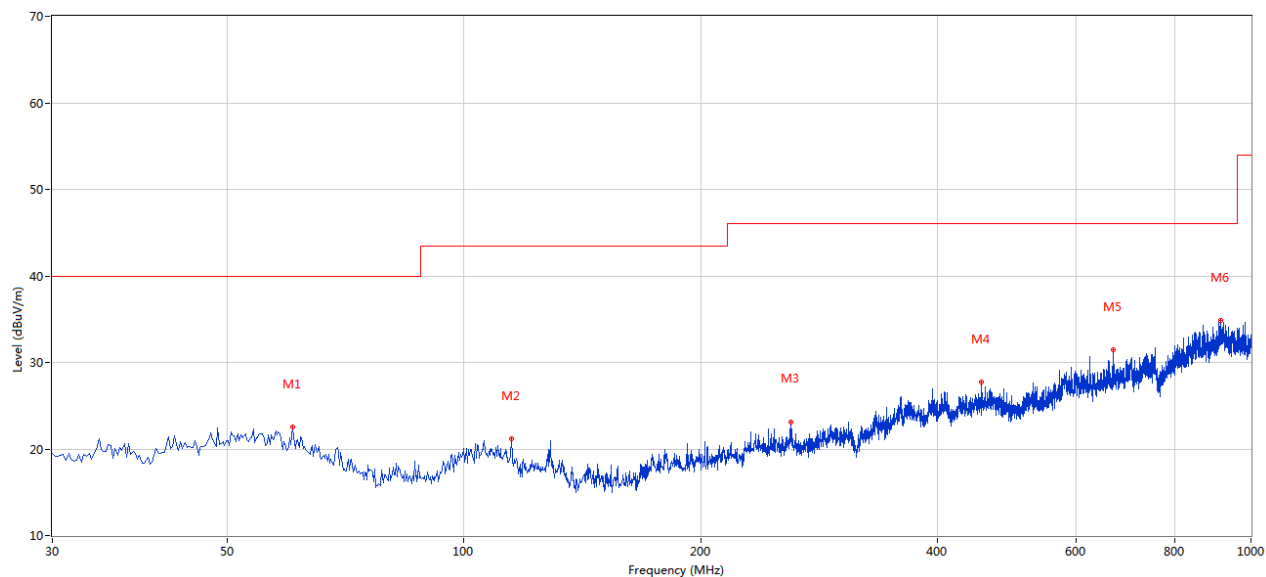


Test result
General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: **Keep Transmitting**
Test Channel: Middle (2445MHz)
Results: **Pass**

Test Figure:



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	60.555	22.55	-9.13	40.0	17.45	Peak	128.00	100	Vertical	Pass
2	114.875	21.21	-10.07	43.5	22.29	Peak	149.00	100	Vertical	Pass
3	260.375	23.14	-8.19	46.0	22.86	Peak	168.00	100	Vertical	Pass
4	454.375	27.77	-3.83	46.0	18.23	Peak	0.00	100	Vertical	Pass
5	668.987	31.46	-1.11	46.0	14.54	Peak	0.00	100	Vertical	Pass
6	914.640	34.87	2.80	46.0	11.13	Peak	299.00	100	Vertical	Pass

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Operation Mode: Transmitting under Low Channel (2416MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4832.00	--	H	74(Peak)/ 54(AV)
4832.00	--	V	74(Peak)/ 54(AV)
7248.00	--	H/V	74(Peak)/ 54(AV)
9664.0	--	H/V	74(Peak)/ 54(AV)
12080	--	H/V	74(Peak)/ 54(AV)
14496	--	H/V	74(Peak)/ 54(AV)
16912	--	H/V	74(Peak)/54(AV)
19328	--	H/V	74(Peak)/ 54(AV)
21744	--	H/V	74(Peak)/ 54(AV)
24160	--	H/V	74(Peak)/ 54(AV)

Operation Mode: Transmitting g under Middle Channel (2445MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4890.00	--	H	74(Peak)/ 54(AV)
4890.00	--	V	74(Peak)/ 54(AV)
7335.00	--	H/V	74(Peak)/ 54(AV)
9780.0	--	H/V	74(Peak)/ 54(AV)
12225	--	H/V	74(Peak)/ 54(AV)
14670	--	H/V	74(Peak)/ 54(AV)
17115	--	H/V	74(Peak)/ 54(AV)
19560	--	H/V	74(Peak)/ 54(AV)
22005	--	H/V	74(Peak)/ 54(AV)
24450	--	H/V	74(Peak)/ 54(AV)

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Operation Mode: Transmitting under High Channel (2475MHz)

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
4950.00	--	H	74(Peak)/ 54(AV)
4950.00	--	V	74(Peak)/ 54(AV)
7425.00	--	H/V	74(Peak)/ 54(AV)
9900.0	--	H/V	74(Peak)/ 54(AV)
12375	--	H/V	74(Peak)/ 54(AV)
14850	--	H/V	74(Peak)/ 54(AV)
17325	--	H/V	74(Peak)/ 54(AV)
19800	--	H/V	74(Peak)/ 54(AV)
22275	--	H/V	74(Peak)/ 54(AV)
24750	--	H/V	74(Peak)/ 54(AV)

- Note:
- (1) Results = Reading Level + Factor (Factor= Antenna Factor + Cable Loss-Amplifier)
 - (2) Margin= Results -Limits
 - (3) According to section 15.35(b), the peak limit is 20dB higher than the average limit
 - (4) For test purpose, keep EUT continuous transmitting
 - (5) Below 30MHz, it is only the floor noise and less than the limit for more than 20dB. No necessary to take down.
 - (6) Remark “---” means that the emissions level is too low to be measured

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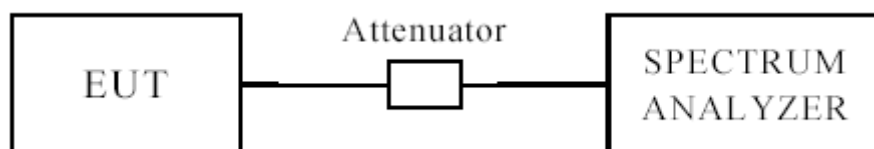
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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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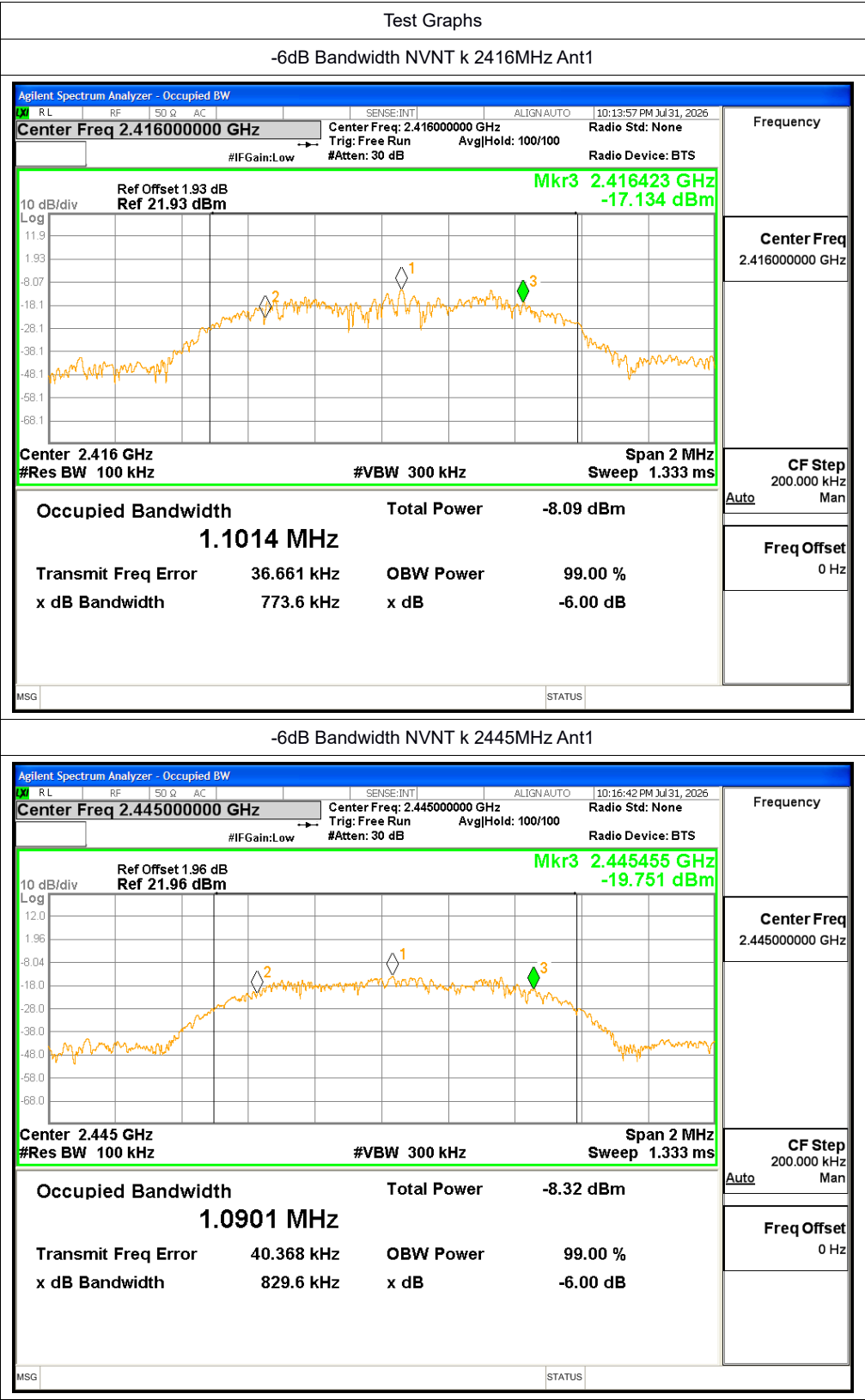
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Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	k	2416	Ant1	0.774	0.5	Pass
		2445		0.83	0.5	Pass
		2475		0.815	0.5	Pass

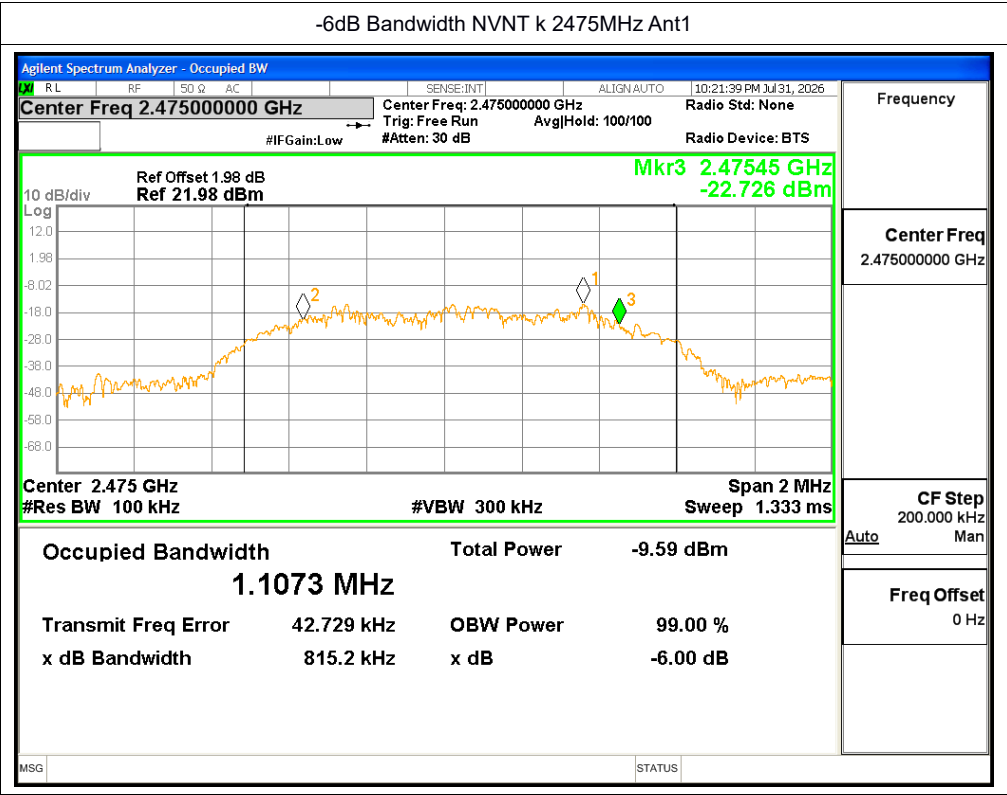
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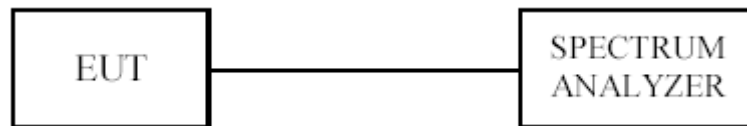
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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

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

Note: The Peak power was measured.

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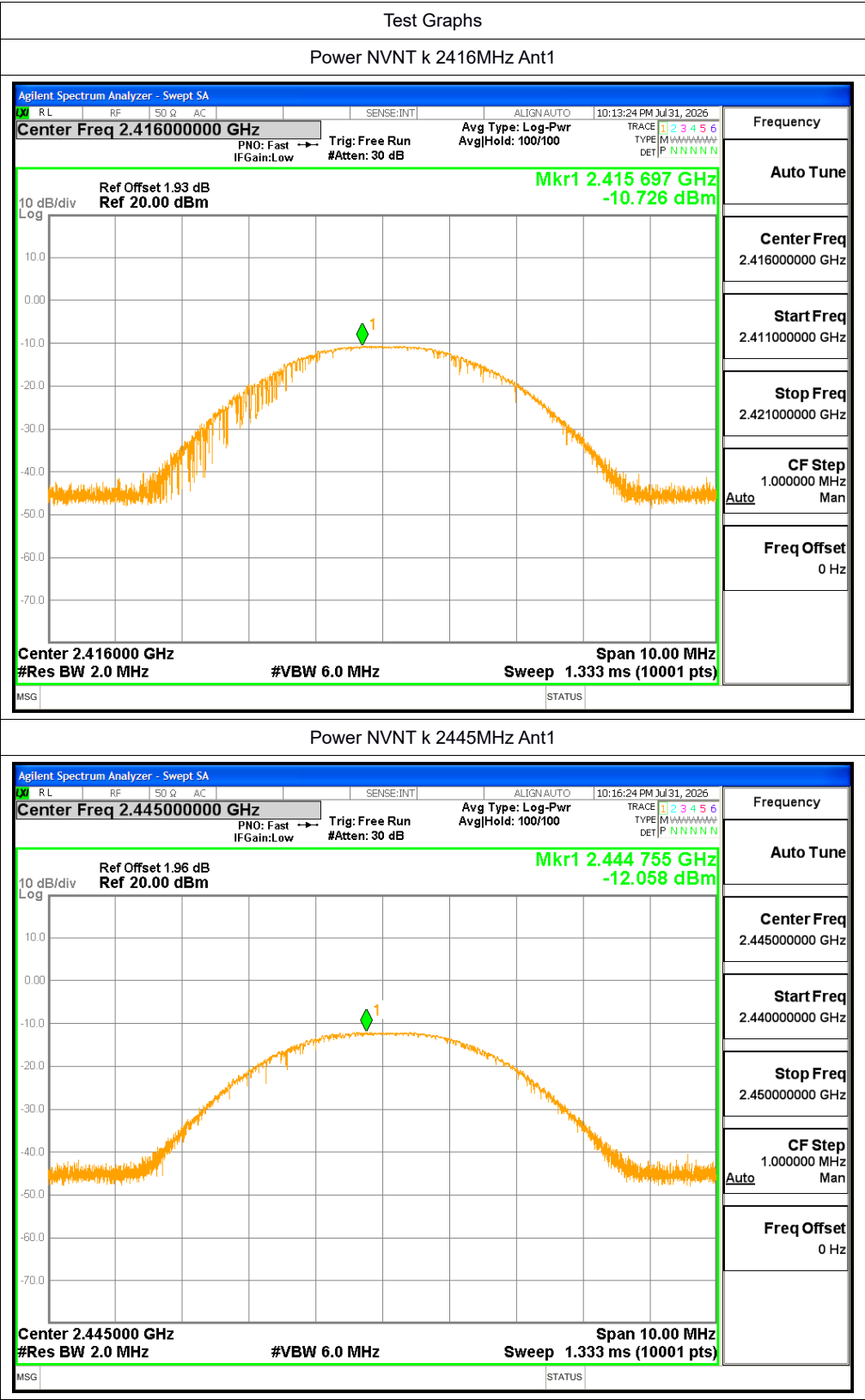


8.4Test Results

Condition	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2416	Ant1	-10.73	30	Pass
NVNT	2445	Ant1	-12.06	30	Pass
NVNT	2475	Ant1	-13.37	30	Pass

Note: 1. the result basic equation calculation as follow:
Max. Power Output = Power Reading + Cable loss

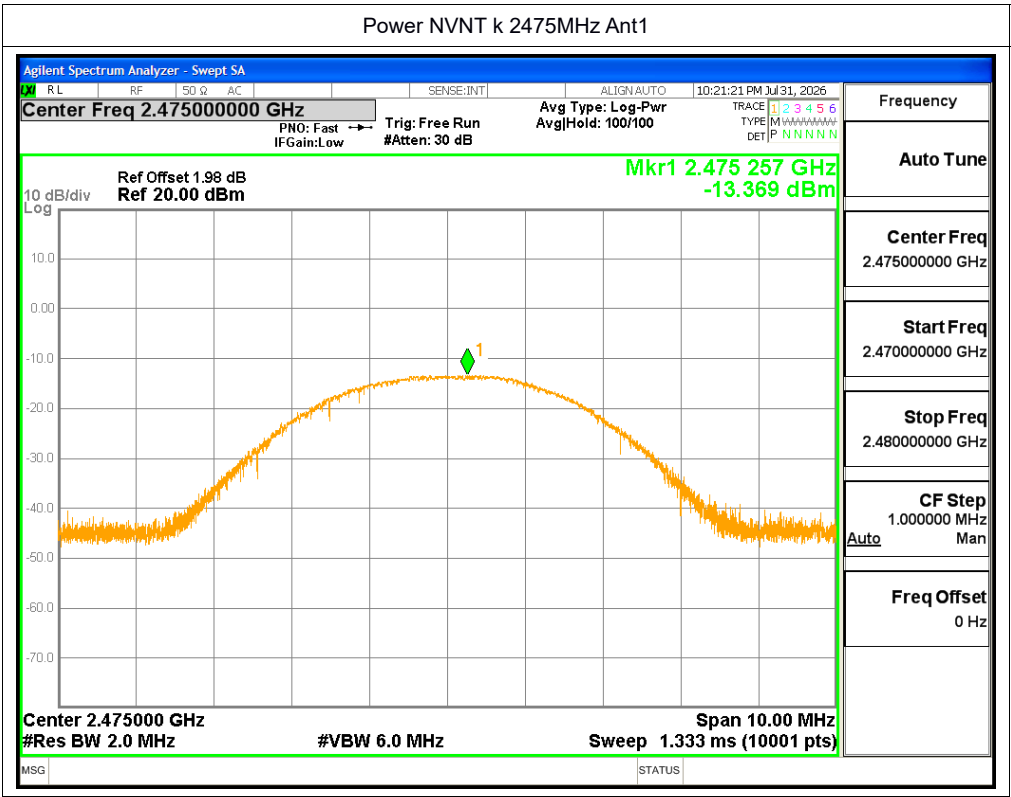
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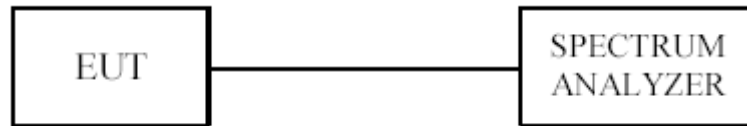
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW $\geq$ 10 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
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.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be $\leq$ 8 dBm/3kHz.

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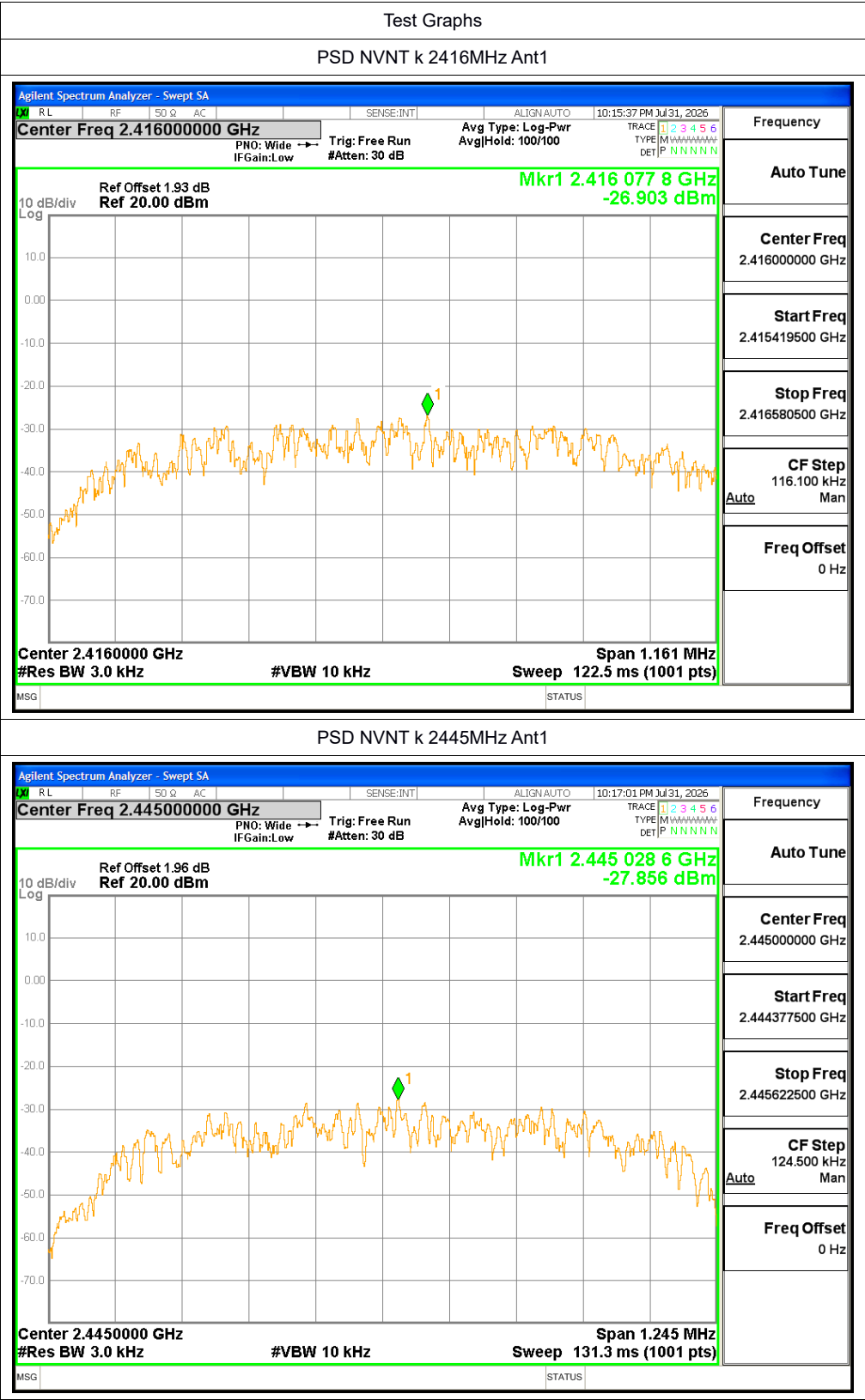
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9.4Test Result

Condition	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	2416	Ant1	-26.9	8	Pass
NVNT	2445	Ant1	-27.86	8	Pass
NVNT	2475	Ant1	-28.29	8	Pass

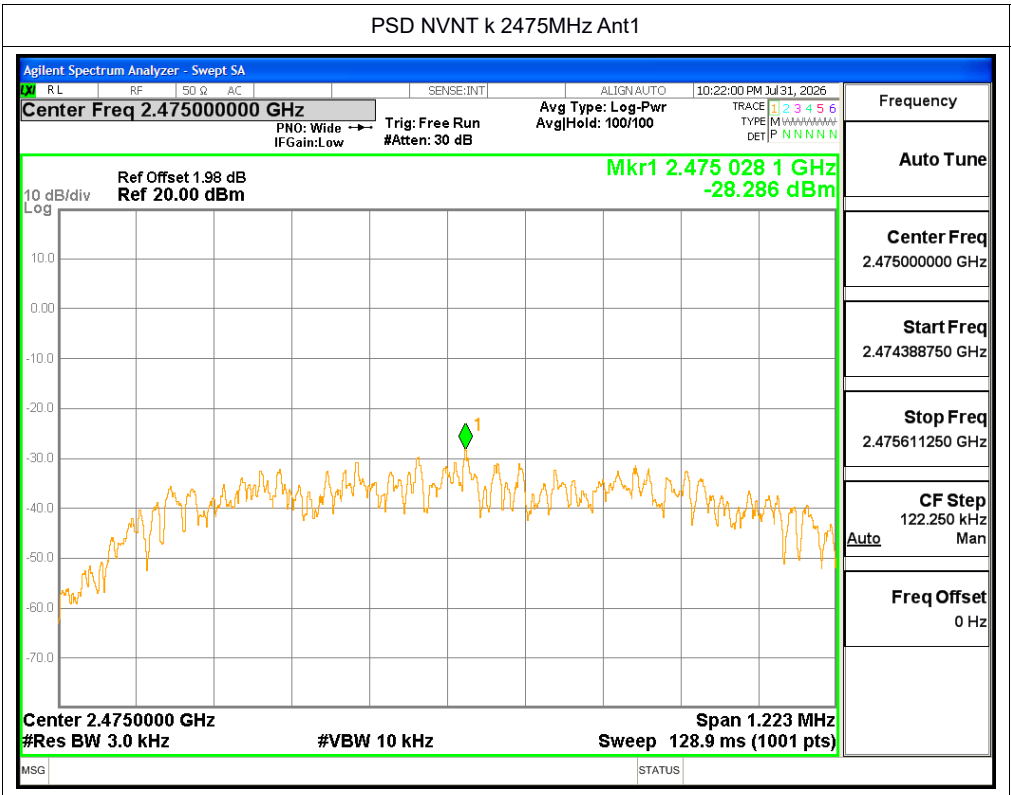
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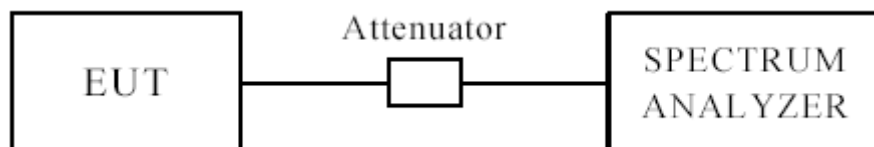
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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of Radiated emission test. (Peak values with RBW=1MHz, VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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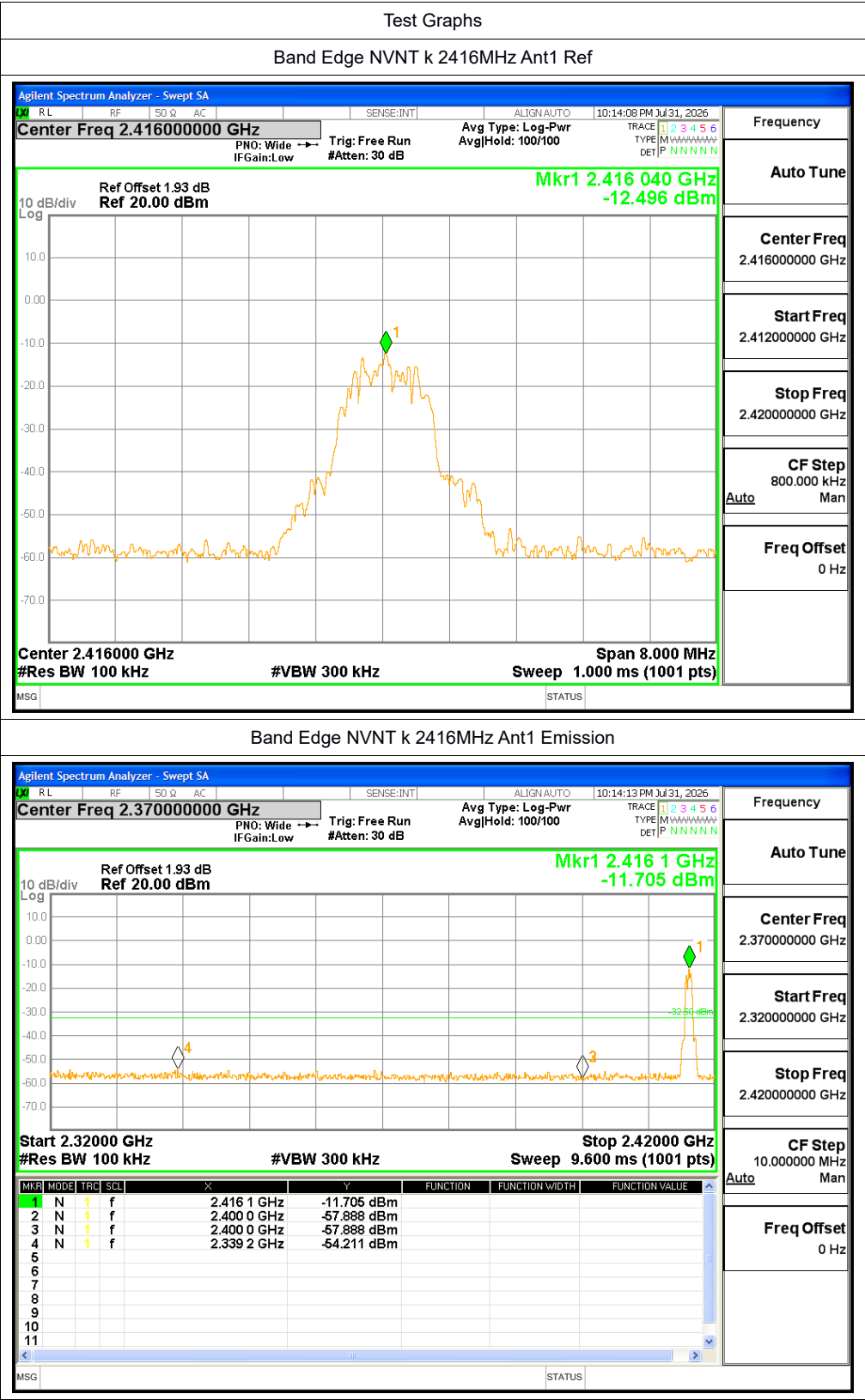
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Condition	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2416	Ant1	-41.71	-20	Pass
NVNT	2475	Ant1	-37.52	-20	Pass

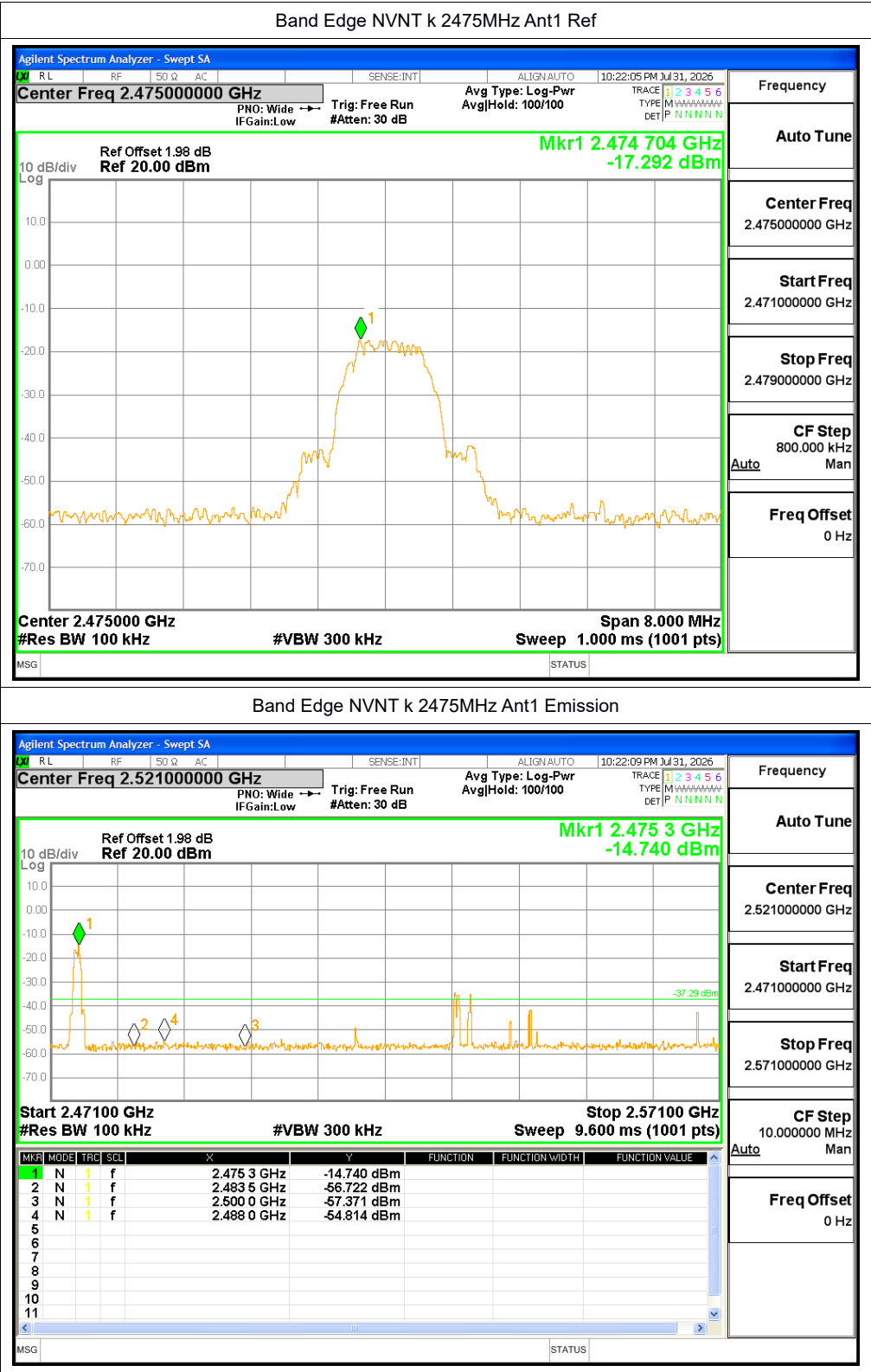
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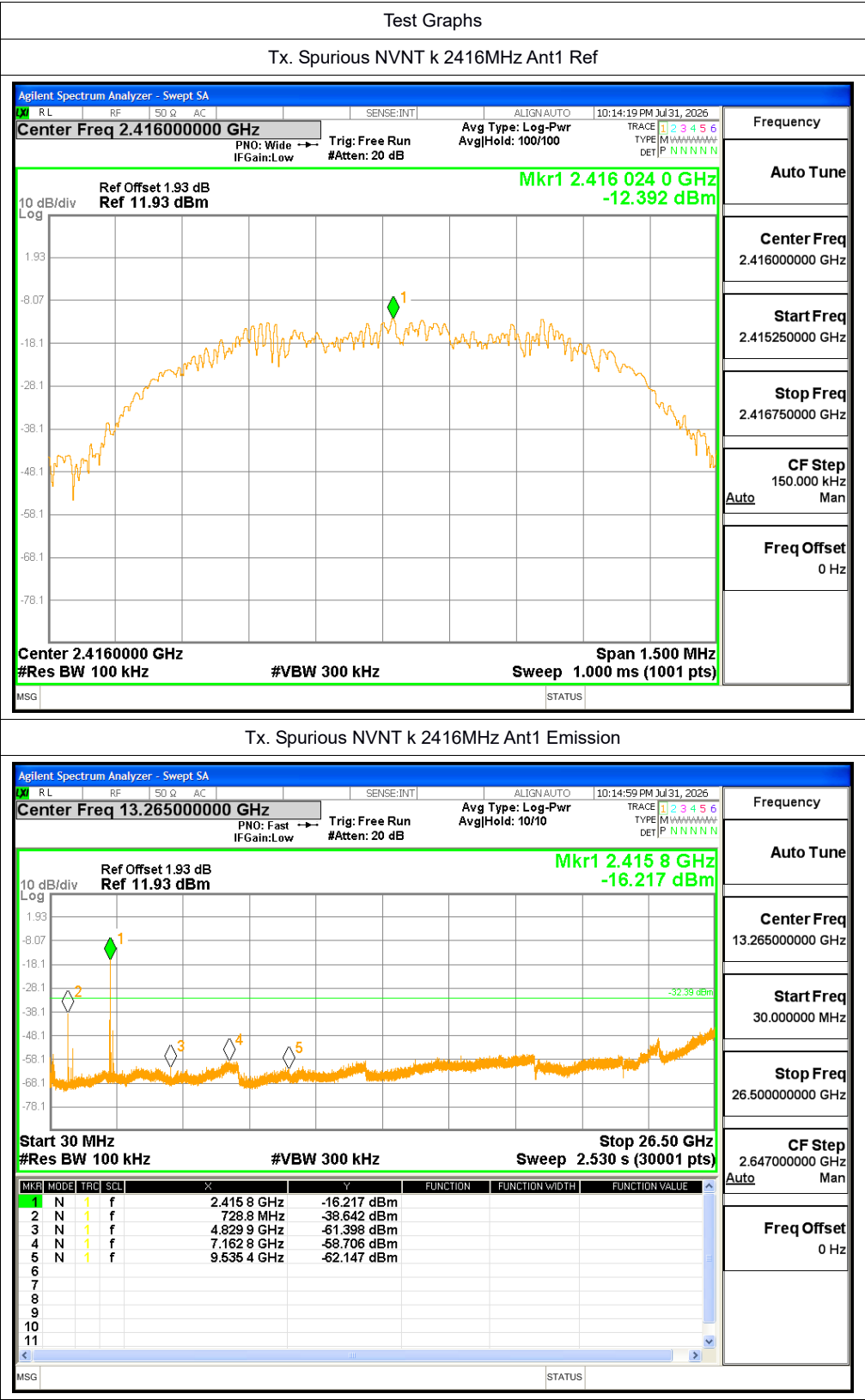


Conducted Emissions at antenna Port

Test Figures above 1GHz:

Condition	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	2416	Ant1	-26.25	-20	Pass
NVNT	2445	Ant1	-30.64	-20	Pass
NVNT	2475	Ant1	-29.58	-20	Pass

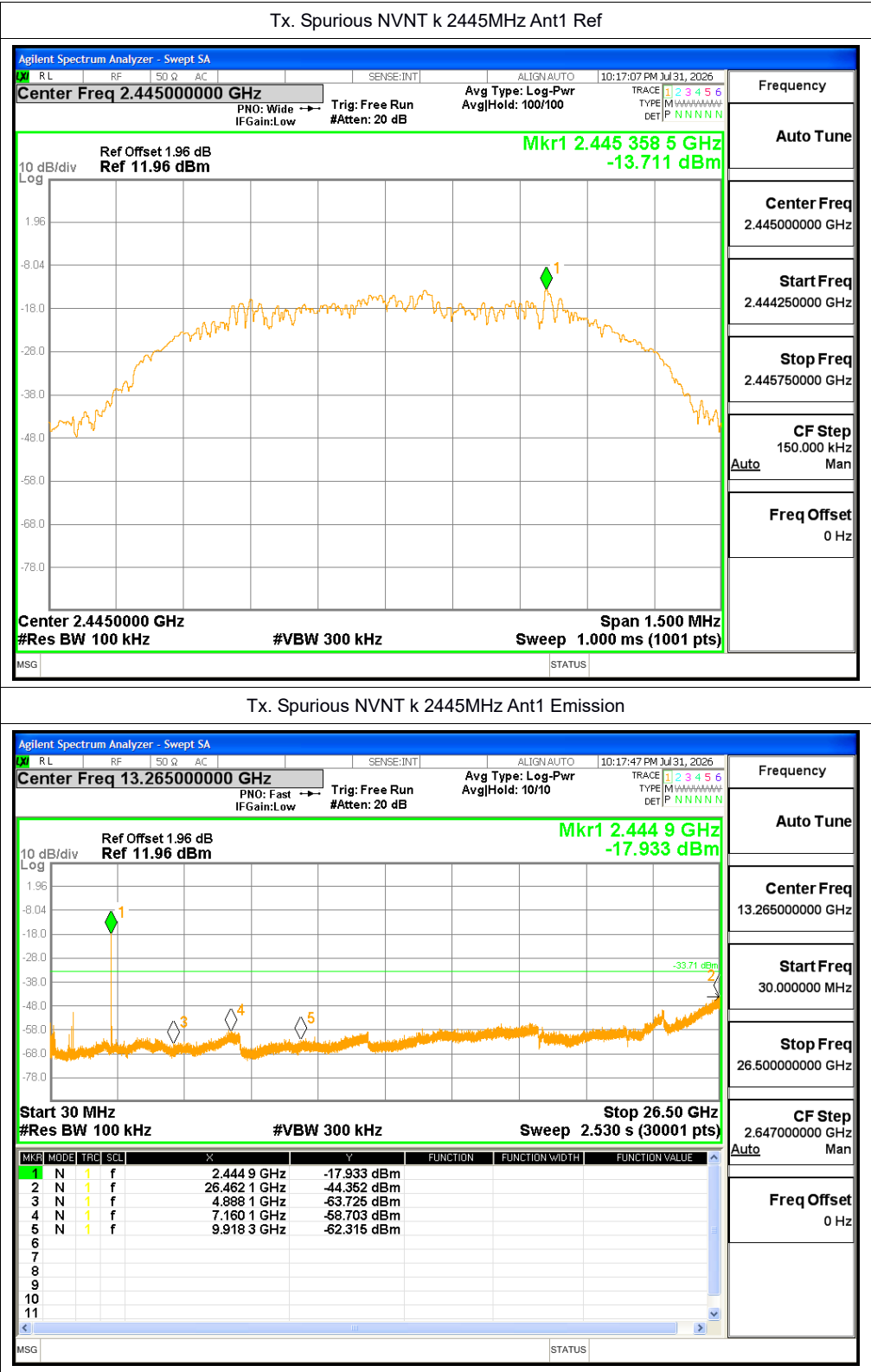
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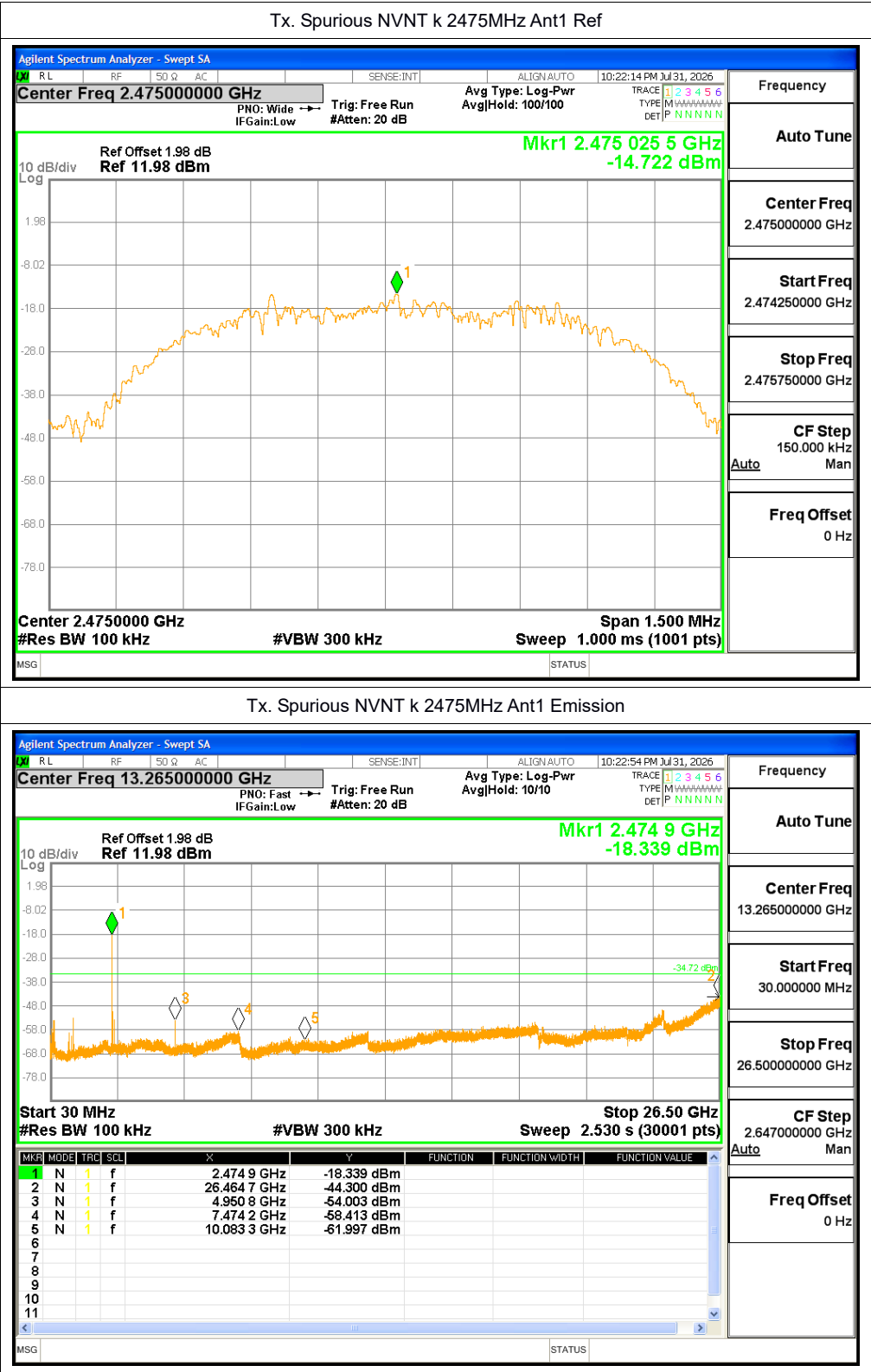
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Restricted band Measurement

EUT	TR1 Remote controller		Model	TR1
Mode	Keeping Transmitting		Test Voltage	DC3.0V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
Low Channel, Horizontal				
2390	PK (dBμV/m)	35.36	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)
Low Channel Vertical				
2390	PK (dBμV/m)	35.17	Limit	74(dBμV/m)
	AV (dBμV/m)	--		54(dBμV/m)

Restricted band Measurement

EUT	TR1 Remote controller			Model	TR1
Mode	Keeping Transmitting			Test Voltage	DC3.0V
Temperature	24 deg. C,			Humidity	56% RH
Test Result:	Pass			Detector	PK
High Channel, Horizontal					
2483.5	PK (dBμV/m)	36.09	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	
High Channel, Vertical					
2483.5	PK (dBμV/m)	35.91	Limit	74(dBμV/m)	
	AV (dBμV/m)	--		54(dBμV/m)	

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11.0 Antenna Requirement

11.1 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.

11.2 Antenna Connected construction

Integral antenna used. The gain of the antennas is -0.18dBi (Get from the antenna specification provided the manufacturer)

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12.0 FCC ID Label

FCC ID: 2BK8B-TR1

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:



Label Location

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13.0 Photo of testing

Conducted Emission Test Setup:

N/A

Radiated Emission Test Setup:



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RF test view



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Photographs – EUT

Outside View



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Outside View



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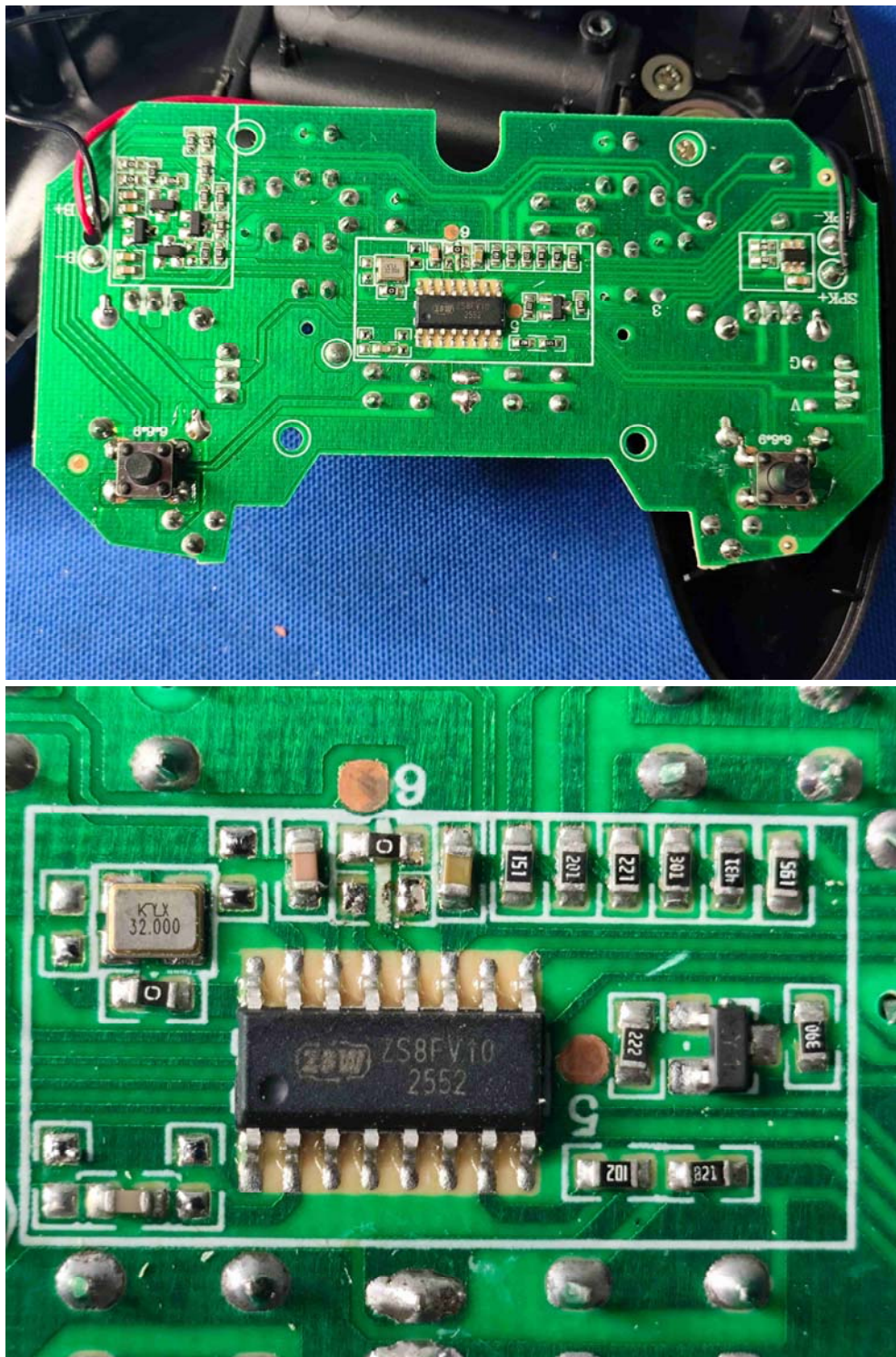
Outside View



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Inside view



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Inside view



End of the report

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