

**FCC - TEST REPORT**Report Number : **709502306225-00B** Date of Issue: January 22, 2024Model : LKOUT PProduct Type : Wireless DisplayApplicant : Fellowes IncAddress : 1789 Norwood Avenue Itasca, IL 60143 United StatesProduction Facility : Fellowes Office Products(Suzhou) Co, LtdAddress : 1# Shilin Road, Suzhou New & Hi-tech District,
215151 Suzhou, Jiangsu, People's Republic of ChinaTest Result : ☒ **Positive** ☐ **Negative**Total pages including
Appendices : 70

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1 Table of Contents

1	Table of Contents	2
2	Report Modification Record	3
3	Details about the Test Laboratory	3
4	Description of the Equipment under Test	4
5	Summary of Test Standards	7
6	Summary of Test Results	8
7	General Remarks	9
8	Test Setups	10
9	Systems test configuration	13
10	Technical Requirement	14
10.1	Conducted Emission	14
10.2	Conducted peak output power	19
10.3	6dB bandwidth	29
10.4	Power spectral density	34
10.5	Spurious RF conducted emissions	39
10.6	Band edge	52
10.7	Spurious radiated emissions for transmitter	61
11	Test Equipment List	71
12	System Measurement Uncertainty	72
13	Photographs of Test Set-ups	73
14	Photographs of EUT	74



2 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	Description of Change	Date of Issue
1	First Issue	01/22/2024

3 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
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FCC Registration No.: 820234

FCC Designation Number: CN1183

ISED CAB identifier CN0101

IC Registration No.: 31668



4 Description of the Equipment under Test

Product: Wireless Display

Model no.: LKOUT P

FCC ID: IDH-RMTDSPY

Options and accessories: NA

Rating: DC 12V for Wireless Display
100-240V~, 50/60Hz for adapter

RF Transmission Frequency: 2402~2480MHz for Bluetooth
For 2.4G & 5G Wi-Fi
For 802.11b/g/n-HT20: 2412~2462 MHz
For 802.11n-HT40: 2422~2452 MHz
5180~5240 MHz (U-NII-1)
5745~5825 MHz (U-NII-3)
WCDMA Band II/IV/V
LTE Band 2/4/5/12/13/14/66/71

No. of Operated Channel: 79 channels for Bluetooth 2.1+EDR

Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MH)	Ch	Fre (MHz)
1	2402	17	2418	33	2434	49	2450	65	2466
2	2403	18	2419	34	2435	50	2451	66	2467
3	2404	19	2420	35	2436	51	2452	67	2468
4	2405	20	2421	36	2437	52	2453	68	2469
5	2406	21	2422	37	2438	53	2454	69	2470
6	2407	22	2423	38	2439	54	2455	70	2471
7	2408	23	2424	39	2440	55	2456	71	2472
8	2409	24	2425	40	2441	56	2457	72	2473
9	2410	25	2426	41	2442	57	2458	73	2474
10	2411	26	2427	42	2443	58	2459	74	2475
11	2412	27	2428	43	2444	59	2460	75	2476
12	2413	28	2429	44	2445	60	2461	76	2477
13	2414	29	2430	45	2446	61	2462	77	2478
14	2415	30	2431	46	2447	62	2463	78	2479
15	2416	31	2432	47	2448	63	2464	79	2480
16	2417	32	2433	48	2449	64	2465		



40 channels for Bluetooth 4.2 BLE

Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

2.4GHz WIFI: 11 for 802.11b/802.11g/802.11(H20);
7 for 802.11n(HT40)

802.11b/g/n(HT20)				802.11n(HT40)			
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)
1	2412	7	2442	3	2422	8	2447MHz
2	2417	8	2447	4	2427	9	2452MHz
3	2422	9	2452	5	2432		
4	2427	10	2457	6	2437		
5	2432	11	2462	7	2442		
6	2437						

5180~5240 MHz (U-NII-1):

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
42	5210

5745~5825 MHz (U-NII-3): Channel 149 – 165

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency (MHz)
155	5755



Modulation:	Bluetooth 2.1+EDR FHSS: GFSK, $\pi/4$ DQPSK, 8DPSK Bluetooth 4.2+BLE DHSS: GFSK For Wi-Fi: Direct Sequence Spread Spectrum (DSSS) for 802.11b Orthogonal Frequency Division Multiplexing (OFDM) for 802.11a/b/g/n/ac
Hardware Version:	V2.0
Software Version:	11.0.1_#7210_10.1_2168A1-V2.0
Data speed:	1. Bluetooth 2.1+EDR FHSS: 1Mbps, 2Mbps, 3Mbps 2. Bluetooth 4.2+BLE DHSS: 1Mbps 3. Wi-Fi: 11b 1 ~ 11Mbps, 11g/a 6 ~ 54Mbps, 11n HT20 6.5 ~ 72.2Mbps, 11n HT 40 13.5 ~ 150Mbps, 11ac VHT40 13.5 ~ 200Mbps, 11ac VHT80 29.3 ~ 433.3Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	1.99dBi for 2.4GHz; 1.98dBi for 5GHz
Description of the EUT:	The Equipment Under Test (EUT) is an Infrared Thermal Camera with Bluetooth and Wi-Fi Module. The EUT support Bluetooth 4.2+EDR and support BLE function and Wi-Fi operated at 5GHz and 2.4GHz. Only Bluetooth 4.2+EDR included in this report.
Test sample no.:	SHA-749413-2 (RF Conducted); SHA-749413-3 (RF Radiated)

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



5 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2021 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.



6 Summary of Test Results

Technical Requirements						
FCC Part 15 Subpart C						
Test Condition		Pages	Test Site	Test Result		
				Pass	Fail	N/A
§15.207	Conducted emission AC power port	14-18	Site 1	☒	☐	☐
§15.247 (b) (3)	Conducted peak output power	19-28	Site 1	☒	☐	☐
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	---	---	☐	☐	☒
§15.247(a)(1)	Carrier frequency separation	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Number of hopping frequencies	---	---	☐	☐	☒
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	---	---	☐	☐	☒
§15.247(a)(2)	6dB bandwidth	29-33	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	34-38	Site 1	☒	☐	☐
§15.247(e)	Spurious RF conducted emissions	39-51	Site 1	☒	☐	☐
§15.247(d)	Band edge	52-60	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	61-70	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a PCB antenna, which gain is 1.99dBi for 2.4GHz and 1.98dBi for 5GHz. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: IDH-RMTDSPY complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

This report is only for 2.4G Wi-Fi.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: August 10, 2023

Testing Start Date: August 14, 2023

Testing End Date: December 21, 2023

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by:

Prepared by:

Tested by:



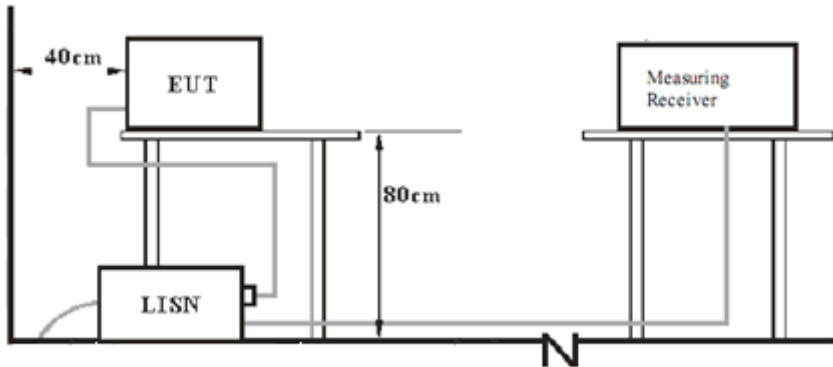
Hui TONG
Review Engineer

Jiaxi XU
Project Engineer

Cheng Huali
Test Engineer

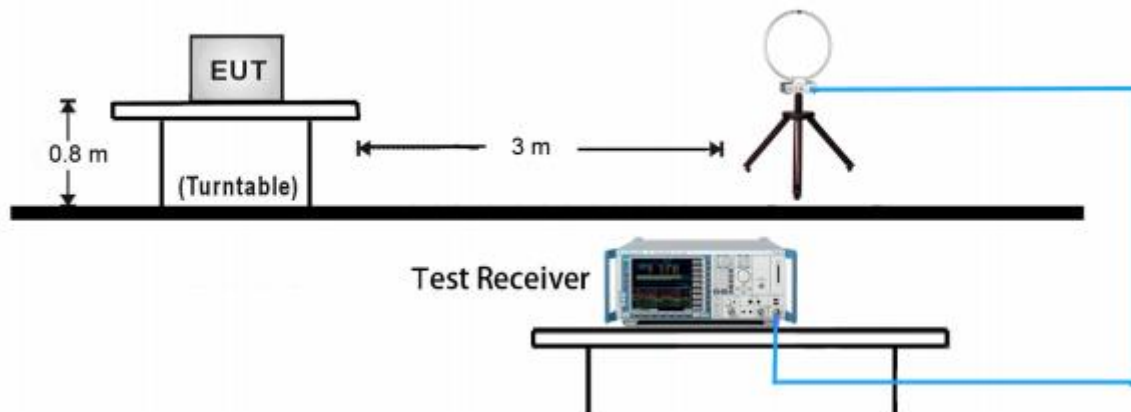
8 Test Setups

7.1 AC Power Line Conducted Emission test setups

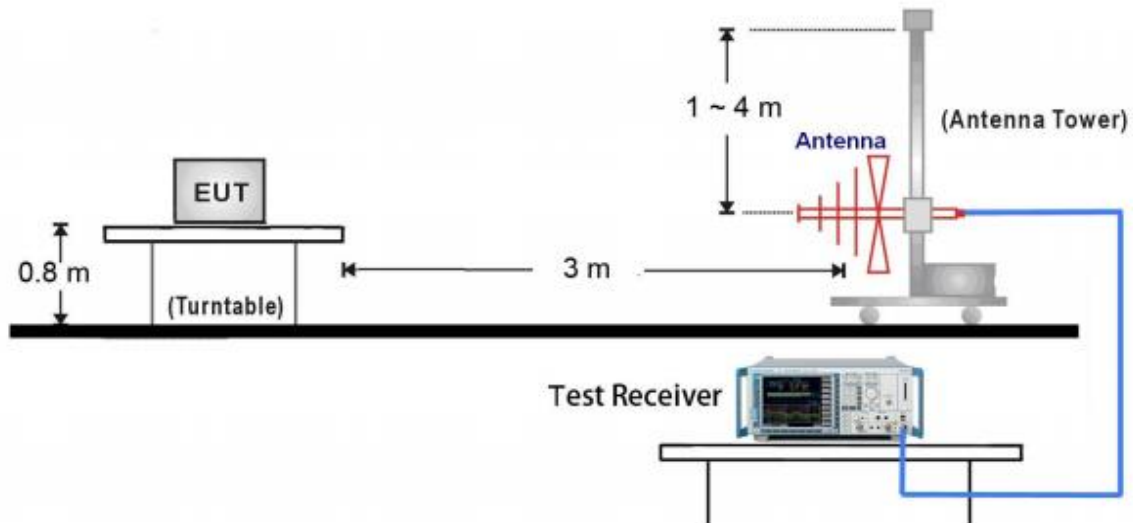


7.2 Radiated test setups

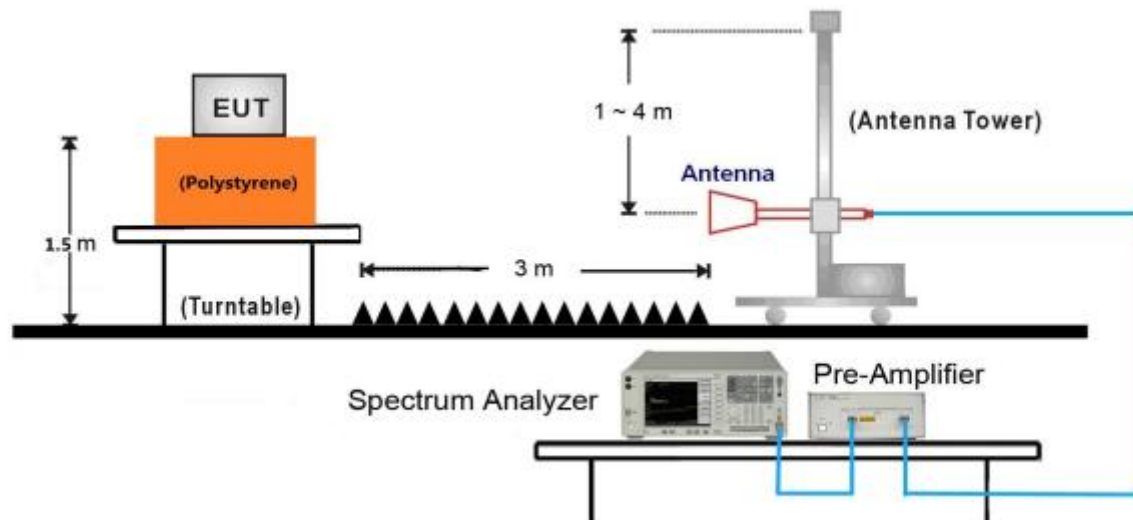
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:

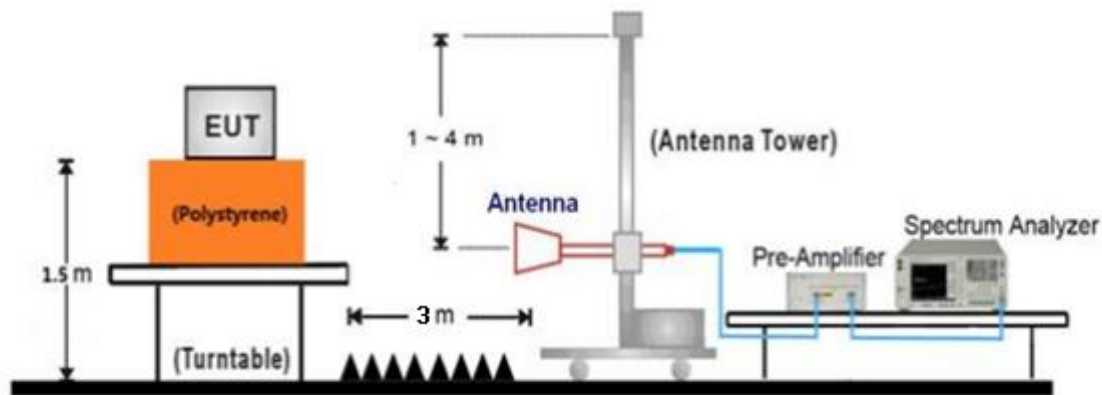


1GHz ~ 18GHz Test Setup:

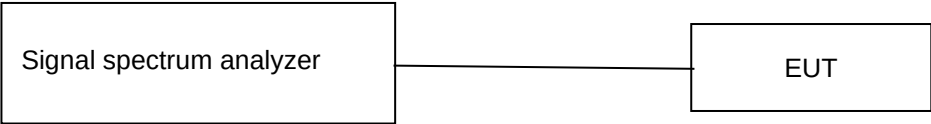




18GHz ~ 25GHz Test Setup:



7.3 Conducted RF test setups



9 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenove	E470	PF-OU5TS7 17/09

Test software: adb commend, which used to control the EUT in continues transmitting mode

The system was configured to channel 1(2412MHz), 6(2437MHz), and 11(2462MHz) for 802.11 b/g/n HT20 test and channel 3(2422MHz), 6(2437MHz), 9(2452MHz) for 802.11n (HT40).

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Index Value (Power level setting)
802.11b	1	1	CCK	33
	6	1	CCK	33
	11	1	CCK	33
802.11g	1	6	OFDM	33
	6	6	OFDM	33
	11	6	OFDM	33
802.11n HT20	1	MCS0	OFDM	33
	6	MCS0	OFDM	33
	11	MCS0	OFDM	33
802.11n HT40	1	MCS0	OFDM	33
	6	MCS0	OFDM	33
	11	MCS0	OFDM	33

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



10 Technical Requirement

10.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

According to §15.207, conducted emissions limit as below:

Frequency MHz	QP Limit dB μ V	AV Limit dB μ V
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

150k-30MHz Conducted Emission Test

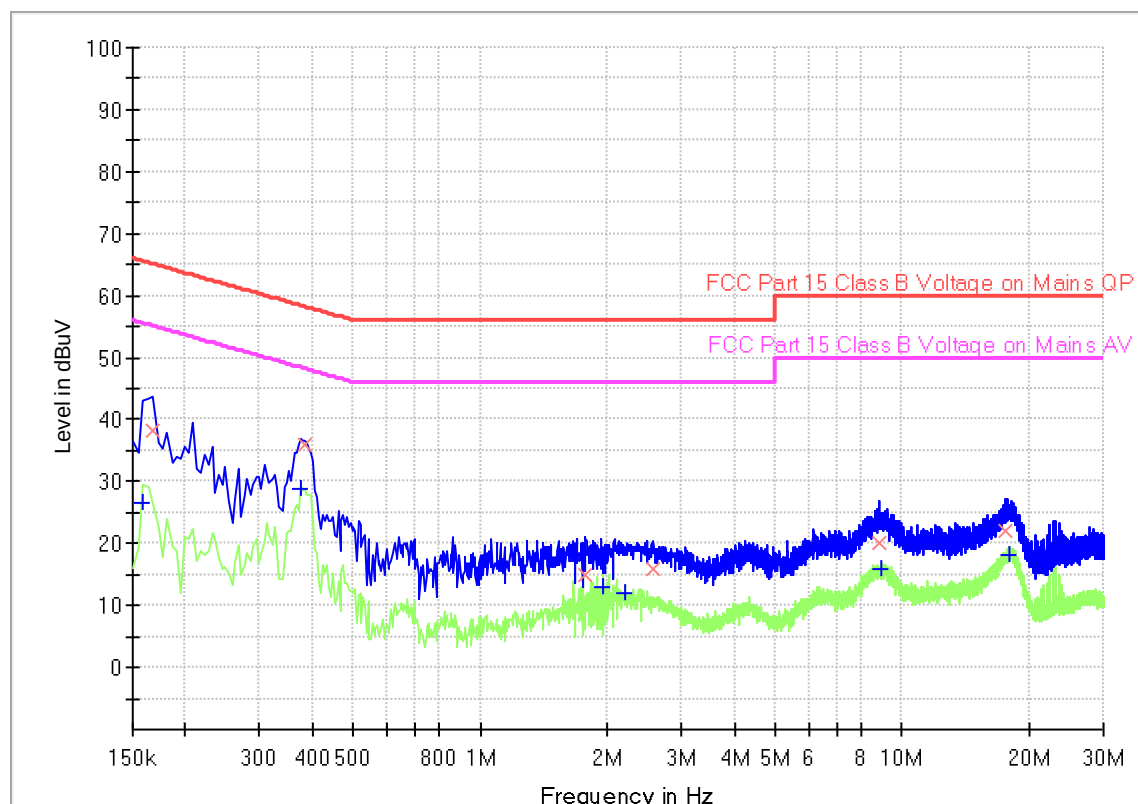
EUT Information

EUT Name: Wireless Display
Model: LKOUT P
Client: Fellowes Inc.
Op Cond: Power on, transmitting at 802.11b_2462MH, AC 120V/60Hz, T24.1, H39.1%, P102.5kPa
Operator: Cheng Huali
Standard: FCC Part 15.207(a)
Comment: Phase L
Sample No.: SHA-749413-2

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup: Voltage with 2-Line-LISN
Receiver: [ESR 3]
Level Unit: dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB





Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.159000	---	26.42	55.52	29.10	1000.0	9.000	L1	19.4
0.168000	38.23	---	65.06	26.83	1000.0	9.000	L1	19.4
0.375000	---	28.70	48.39	19.69	1000.0	9.000	L1	19.5
0.384000	36.04	---	58.19	22.15	1000.0	9.000	L1	19.5
1.774500	15.06	---	56.00	40.94	1000.0	9.000	L1	19.5
1.945500	---	12.94	46.00	33.06	1000.0	9.000	L1	19.5
2.211000	---	11.88	46.00	34.12	1000.0	9.000	L1	19.5
2.557500	15.85	---	56.00	40.15	1000.0	9.000	L1	19.5
8.848500	20.02	---	60.00	39.98	1000.0	9.000	L1	19.8
8.934000	---	15.89	50.00	34.11	1000.0	9.000	L1	19.8
17.655000	22.16	---	60.00	37.84	1000.0	9.000	L1	20.2
18.015000	---	18.23	50.00	31.77	1000.0	9.000	L1	20.2

150k-30MHz Conducted Emission Test

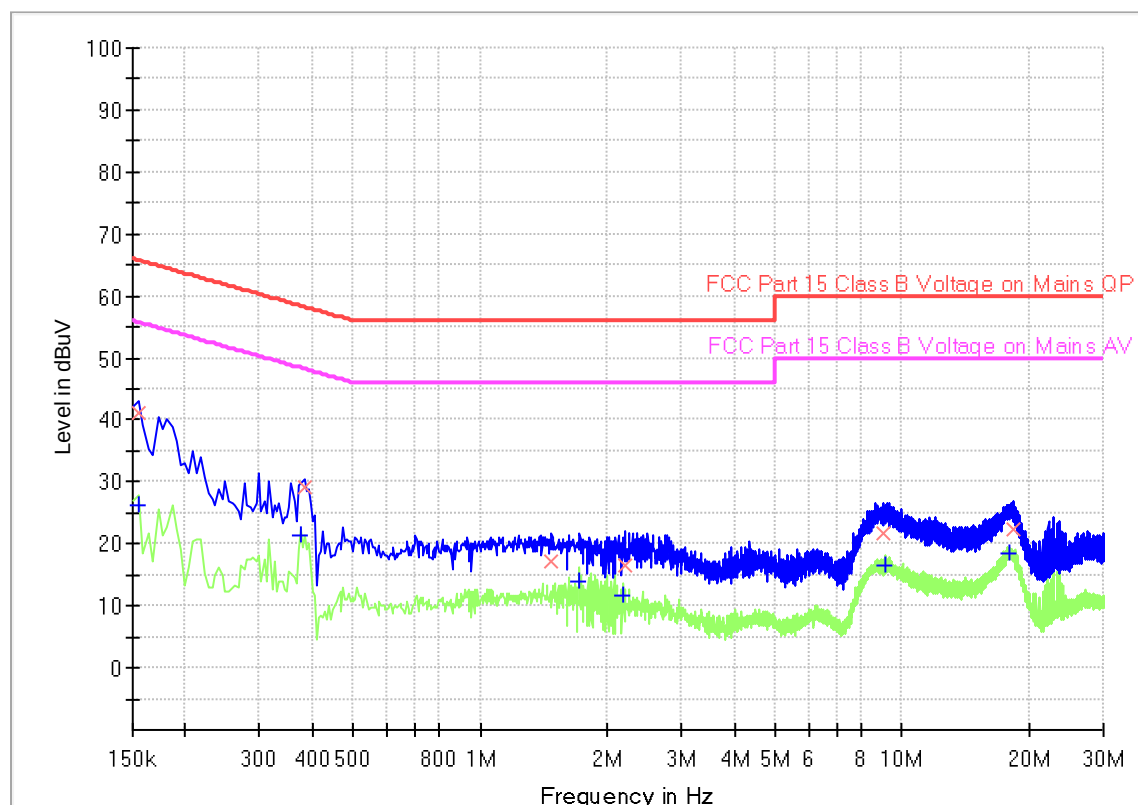
EUT Information

EUT Name:	Wireless Display
Model	LKOUT P
Client:	Fellowes Inc.
Op Cond	Power on, transmitting at 802.11b_2462MH, AC 120V/60Hz, T24.1, H39.1%, P102.5kPa
Operator:	Cheng Huali
Standard	FCC Part 15.207(a)
Comment:	Phase N
Sample No.:	SHA-749413-2

Scan Setup: Voltage with 2-Line-LISN pre [EMI conducted]

Hardware Setup:	Voltage with 2-Line-LISN
Receiver:	[ESR 3]
Level Unit:	dBuV

Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamplifier
9 kHz - 150 kHz	100 Hz	PK+	200 Hz	0.02 s	0 dB
150 kHz - 30 MHz	4.5 kHz	PK+; AVG	9 kHz	0.01 s	0 dB





Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.154500	---	26.39	55.75	29.36	1000.0	9.000	N	19.4
0.154500	40.98	---	65.75	24.77	1000.0	9.000	N	19.4
0.375000	---	21.39	48.39	27.00	1000.0	9.000	N	19.5
0.384000	29.16	---	58.19	29.03	1000.0	9.000	N	19.5
1.477500	17.22	---	56.00	38.78	1000.0	9.000	N	19.5
1.711500	---	14.05	46.00	31.95	1000.0	9.000	N	19.5
2.179500	---	11.83	46.00	34.17	1000.0	9.000	N	19.5
2.202000	16.69	---	56.00	39.31	1000.0	9.000	N	19.5
9.051000	21.57	---	60.00	38.43	1000.0	9.000	N	19.7
9.123000	---	16.66	50.00	33.34	1000.0	9.000	N	19.7
18.051000	---	18.52	50.00	31.48	1000.0	9.000	N	20.1
18.307500	22.28	---	60.00	37.72	1000.0	9.000	N	20.1

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator



10.2 Conducted peak output power

Test Method

1. Measure the duty cycle D of the transmitter output signal.
2. Set span to at least 1.5 times the OBW.
3. Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
4. Set VBW $\geq [3 \times \text{RBW}]$.
5. Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode.
8. Do not use sweep triggering. Allow the sweep to "free run."
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
10. Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
11. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission).

Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

	Frequency Range	Limit	Limit
	MHz	W	dBm
Conducted peak output power	2400-2483.5	≤ 1	≤ 30



Test result as below table

802.11b

Frequency (MHz)	Duty cycle Factor (dB)	Conducted Power (dBm)	Total Power (dBm) §15.247 (b) (1)	Result
2412MHz	0	11.63	11.63	Pass
2437MHz	0	11.57	11.57	Pass
2462MHz	0	11.82	11.82	Pass

802.11g

Frequency (MHz)	Duty cycle Factor (dB)	Conducted Power (dBm)	Total Power (dBm) §15.247 (b) (1)	Result
2412MHz	0.22	5.89	6.11	Pass
2437MHz	0.24	5.88	6.12	Pass
2462MHz	0.22	6.20	6.42	Pass

802.11n(HT20)

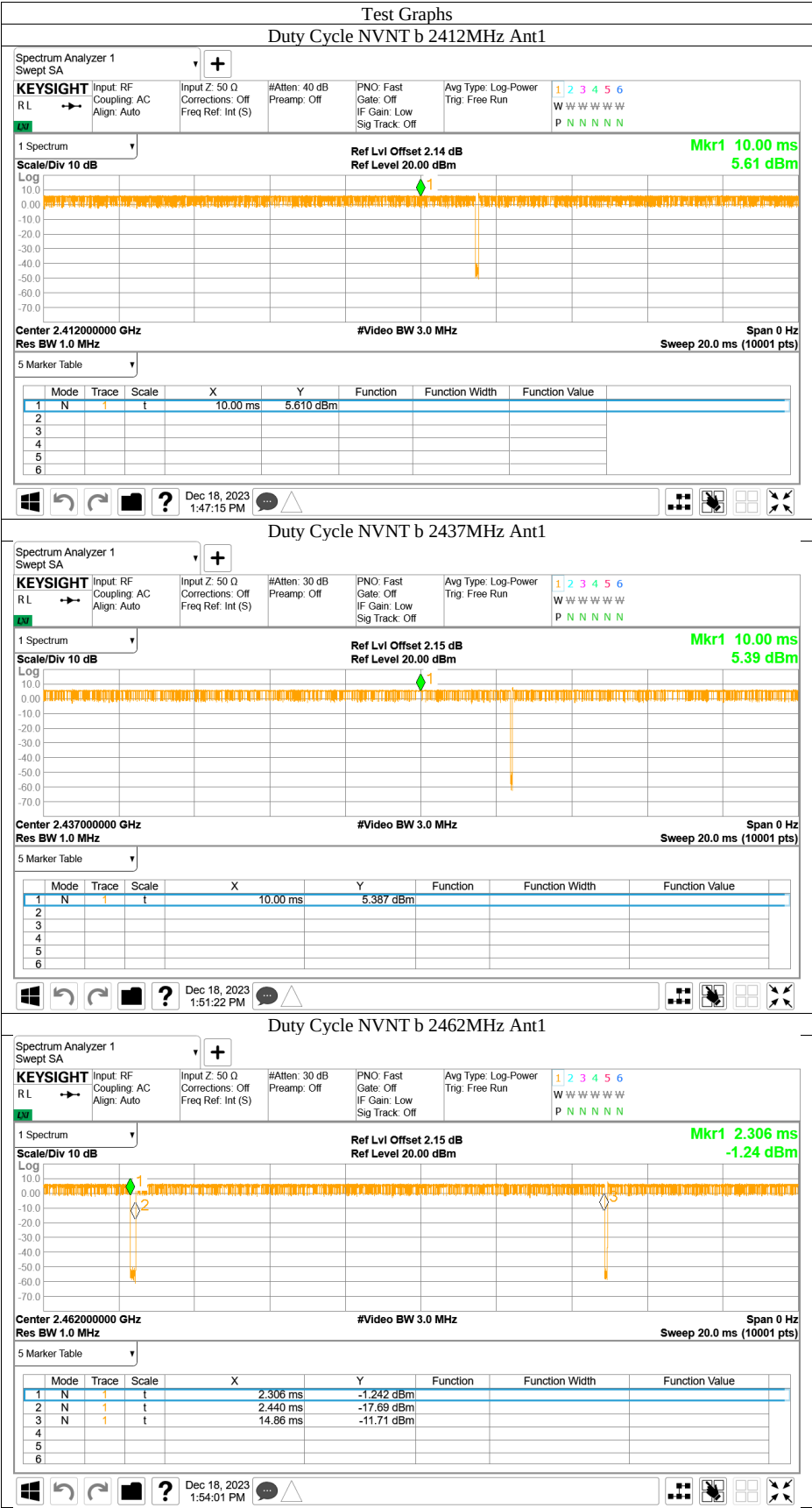
Frequency (MHz)	Duty cycle Factor (dB)	Conducted Power (dBm)	Total Power (dBm) §15.247 (b) (1)	Result
2412MHz	0.18	5.70	5.88	Pass
2437MHz	0.18	5.70	5.88	Pass
2462MHz	0.18	5.96	6.14	Pass

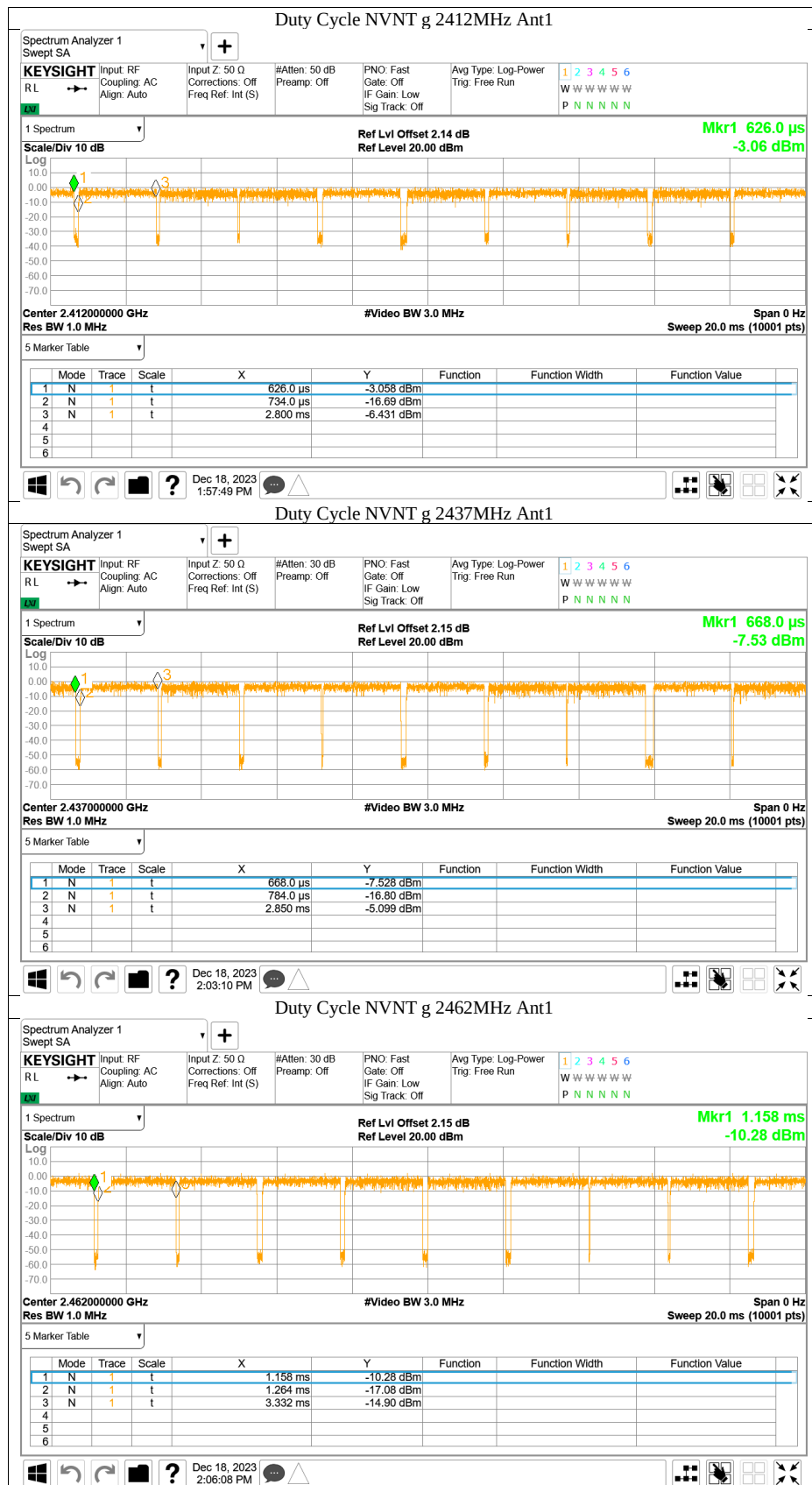
802.11(HT40)

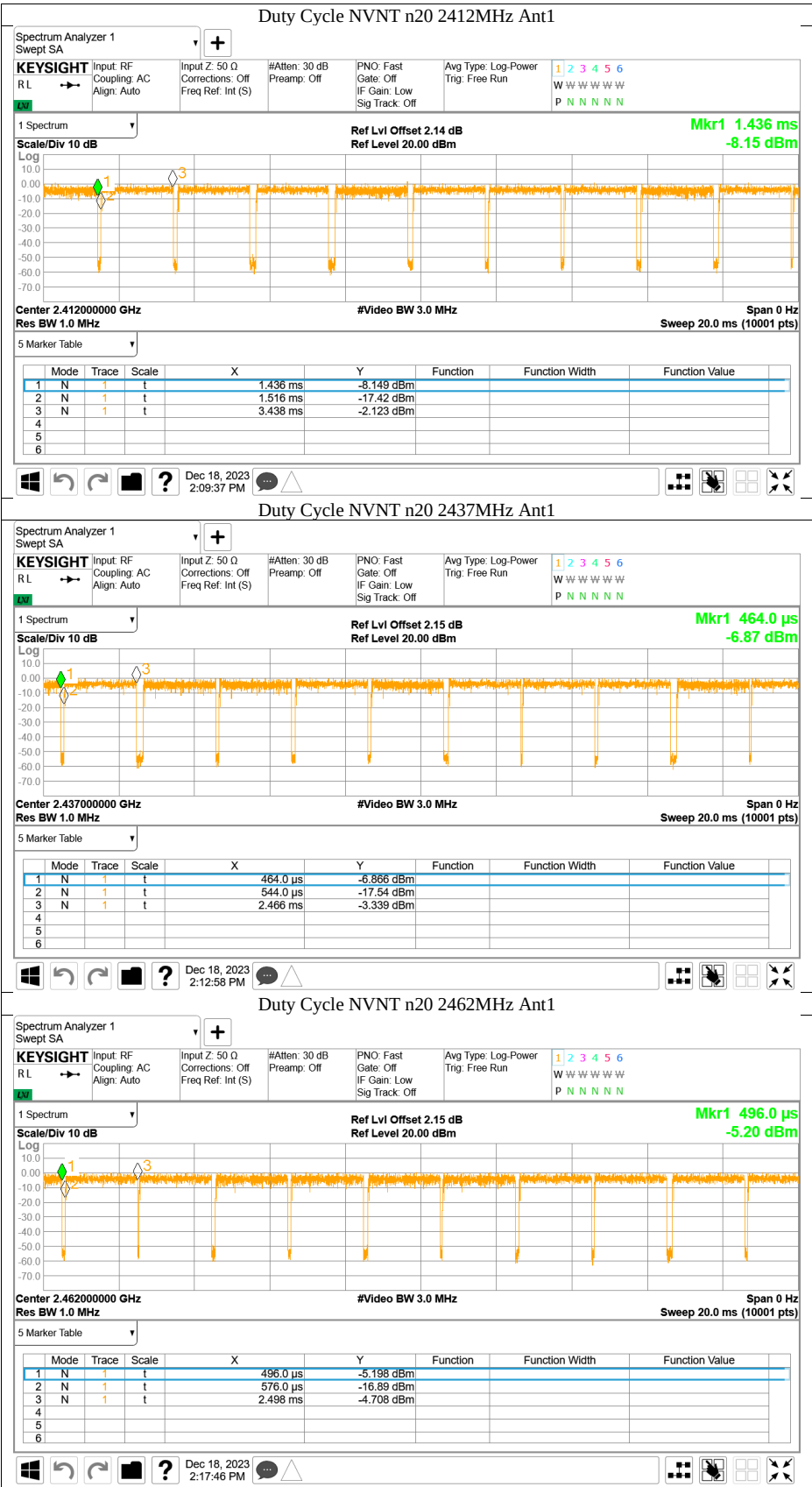
Frequency (MHz)	Duty cycle Factor (dB)	Conducted Power (dBm)	Total Power (dBm) §15.247 (b) (1)	Result
2412MHz	0.39	5.65	6.04	Pass
2437MHz	0.24	5.70	5.94	Pass
2462MHz	0.35	5.80	6.15	Pass

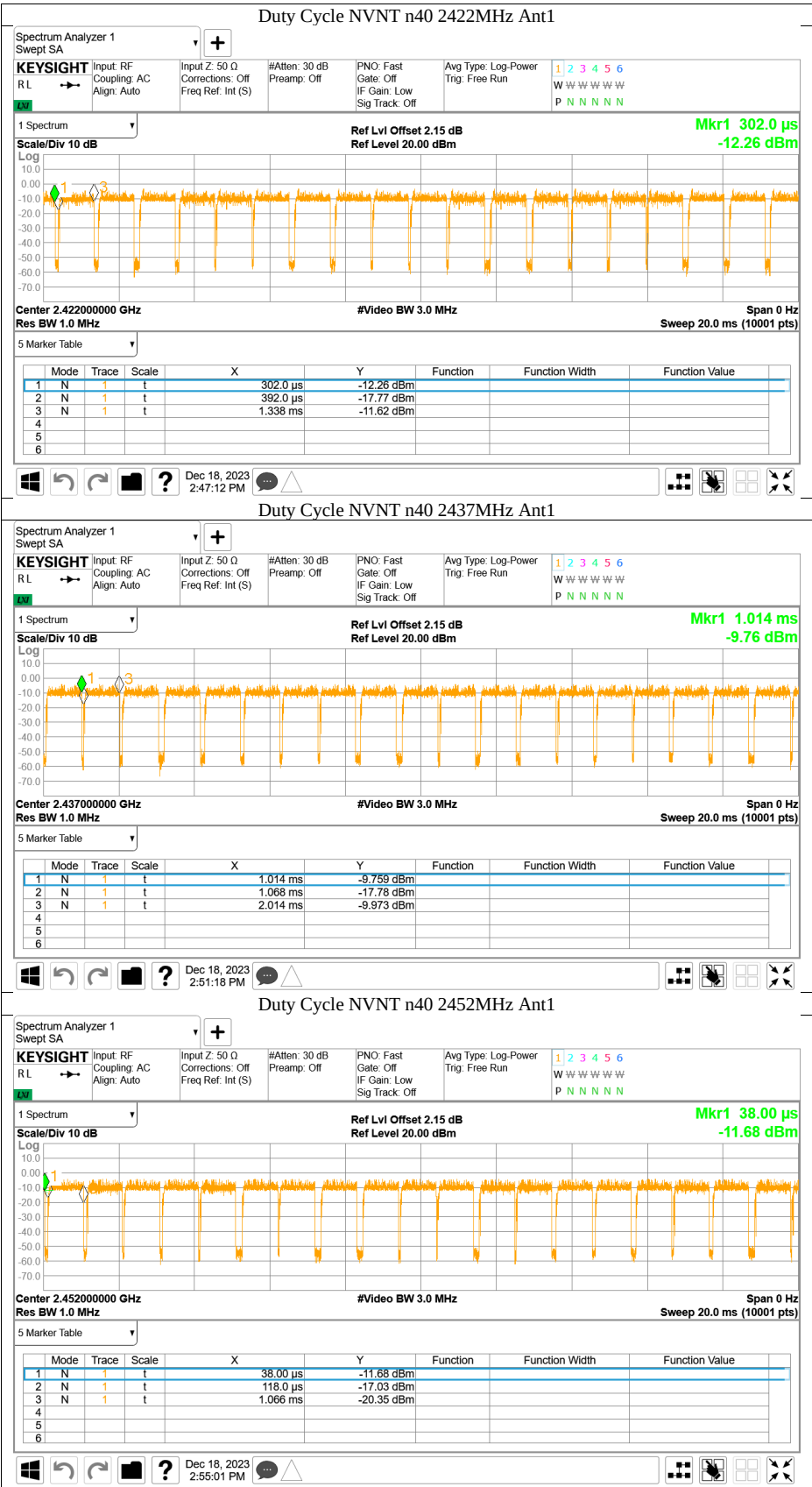


Duty cycle



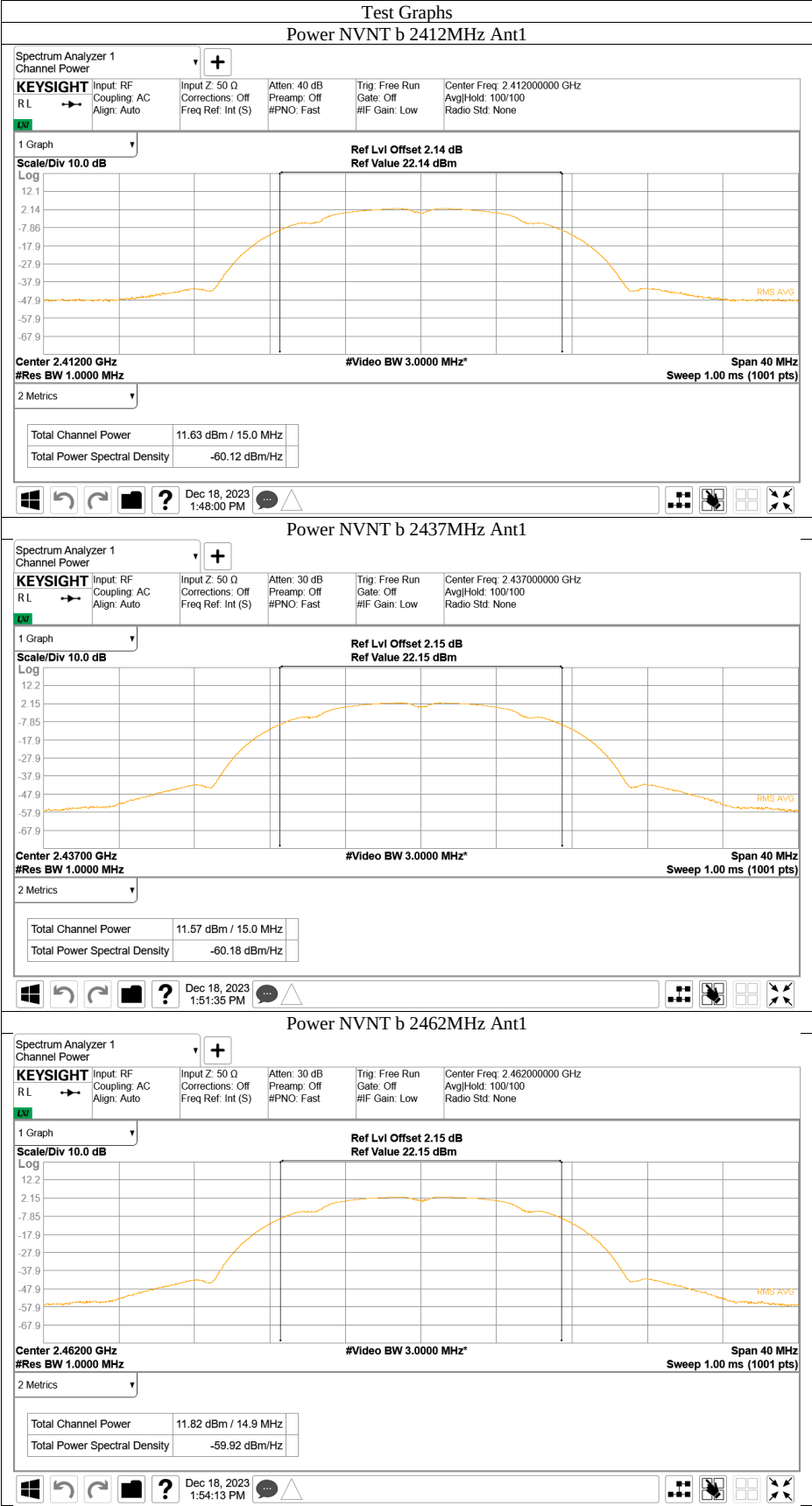


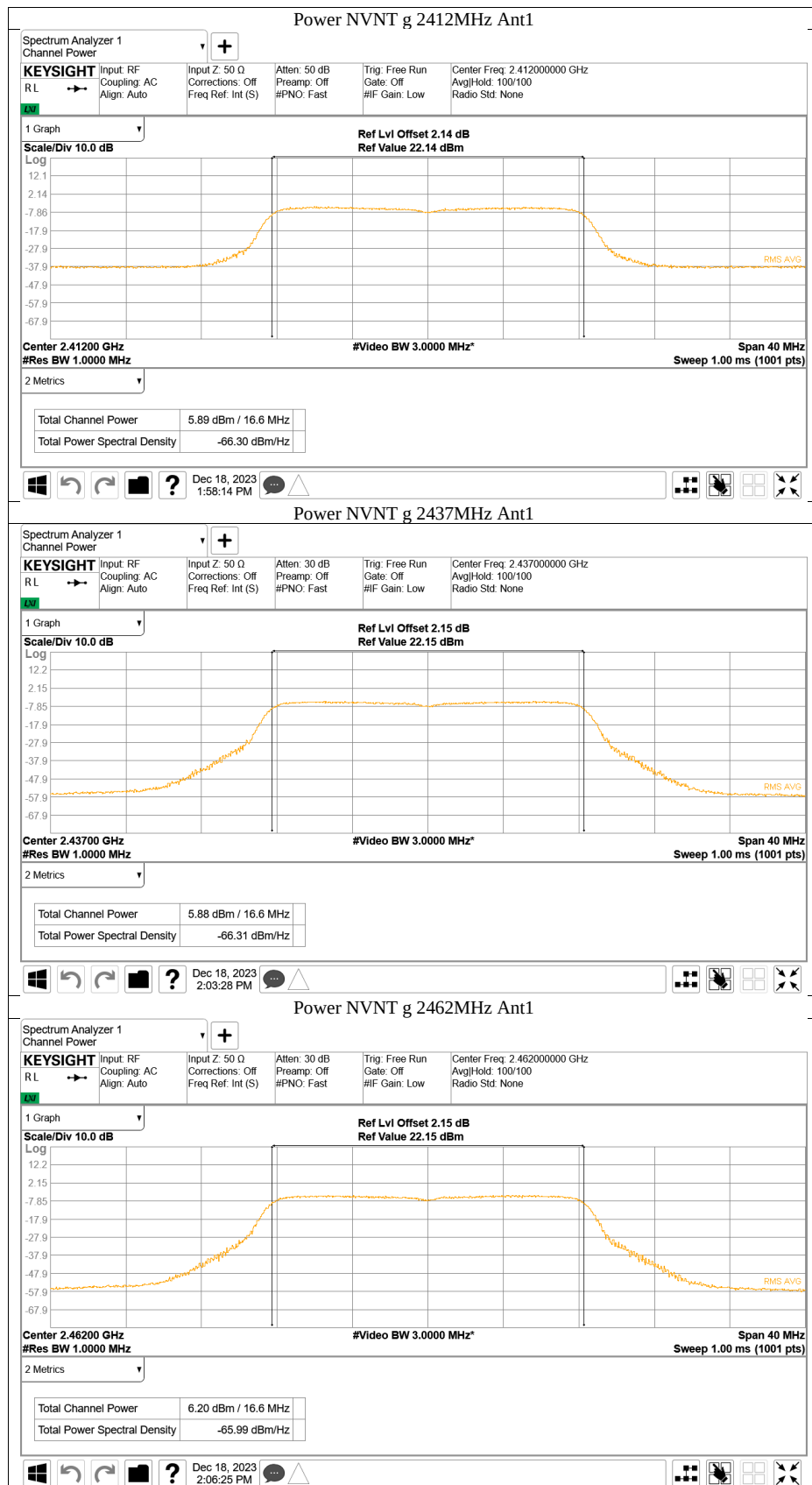


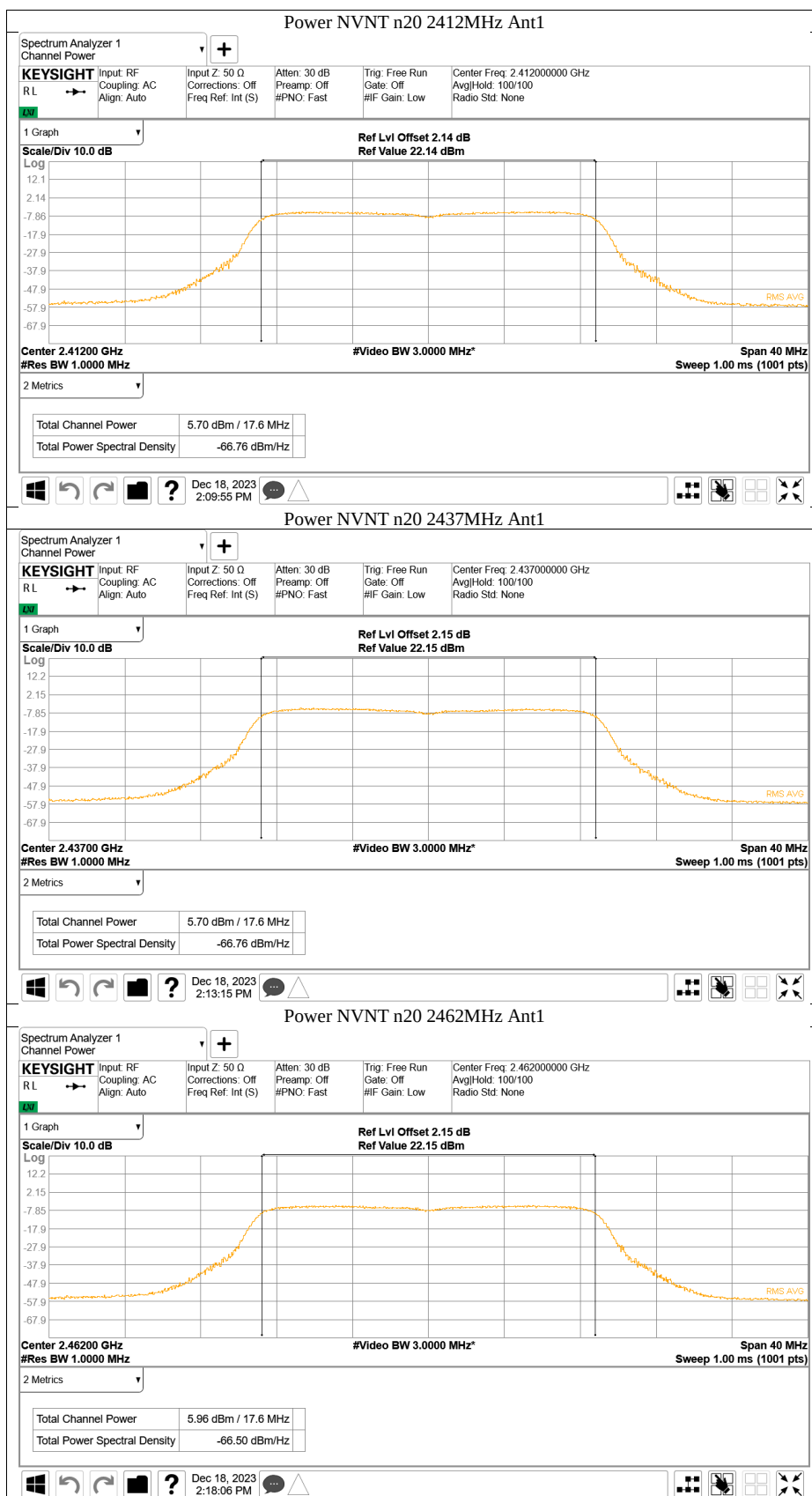


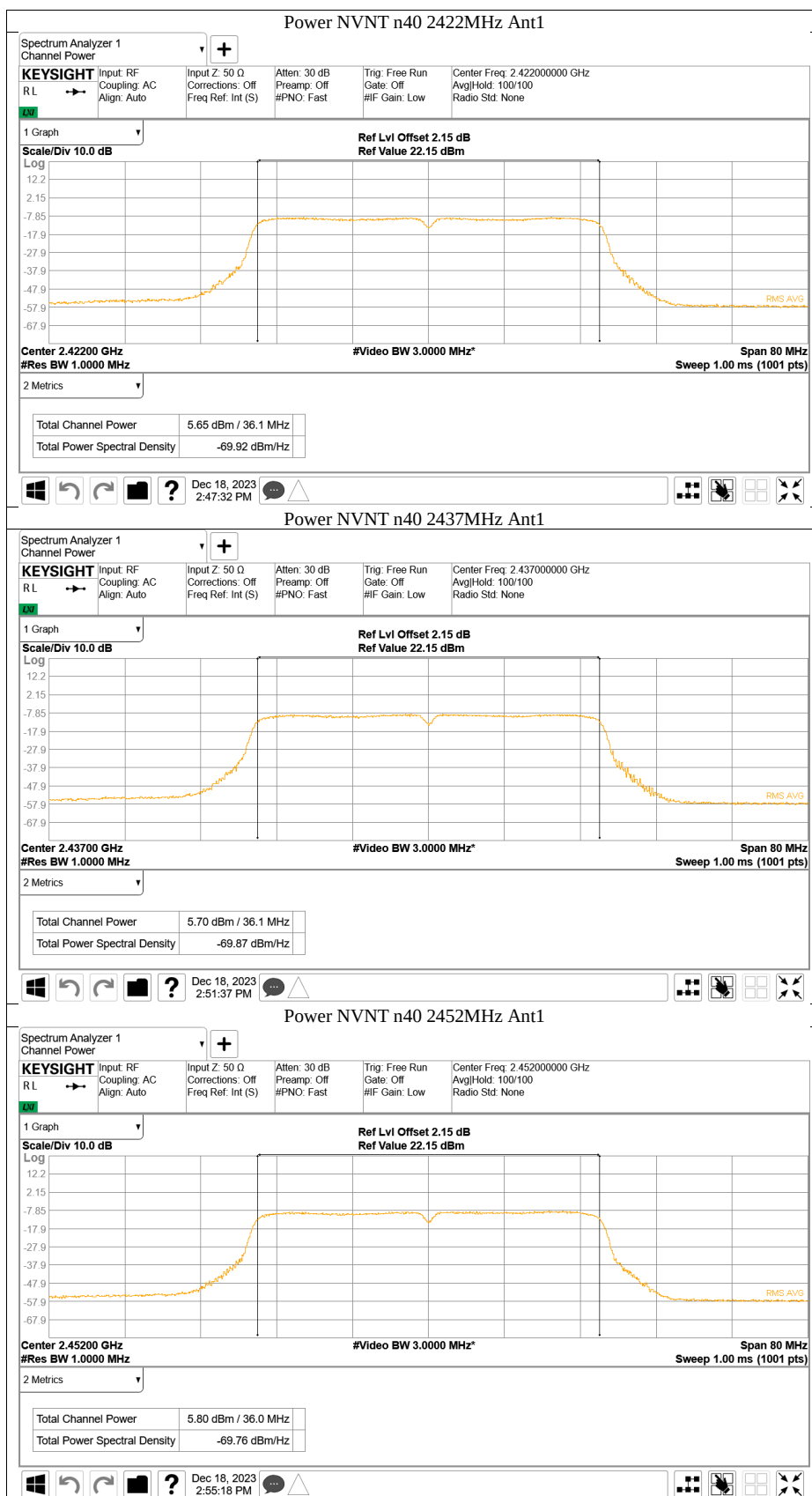


Conducted Output Power











10.3 6dB bandwidth

Test Method for 6 dB Bandwidth

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW=100KHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Test Method for 99 % Bandwidth

1. Connect EUT test port to spectrum analyzer.
Use the following spectrum analyzer settings:
RBW=1% to 5% of the actual occupied, VBW $\geq$ 3RBW, Sweep = auto,
Detector function = peak, Trace = max hold
2. Use the occupied bandwidth measurement capability of test receiver.
3. Allow the trace to stabilize, record the occupied bandwidth value.

Limit

6dB bandwidth Limit [kHz]

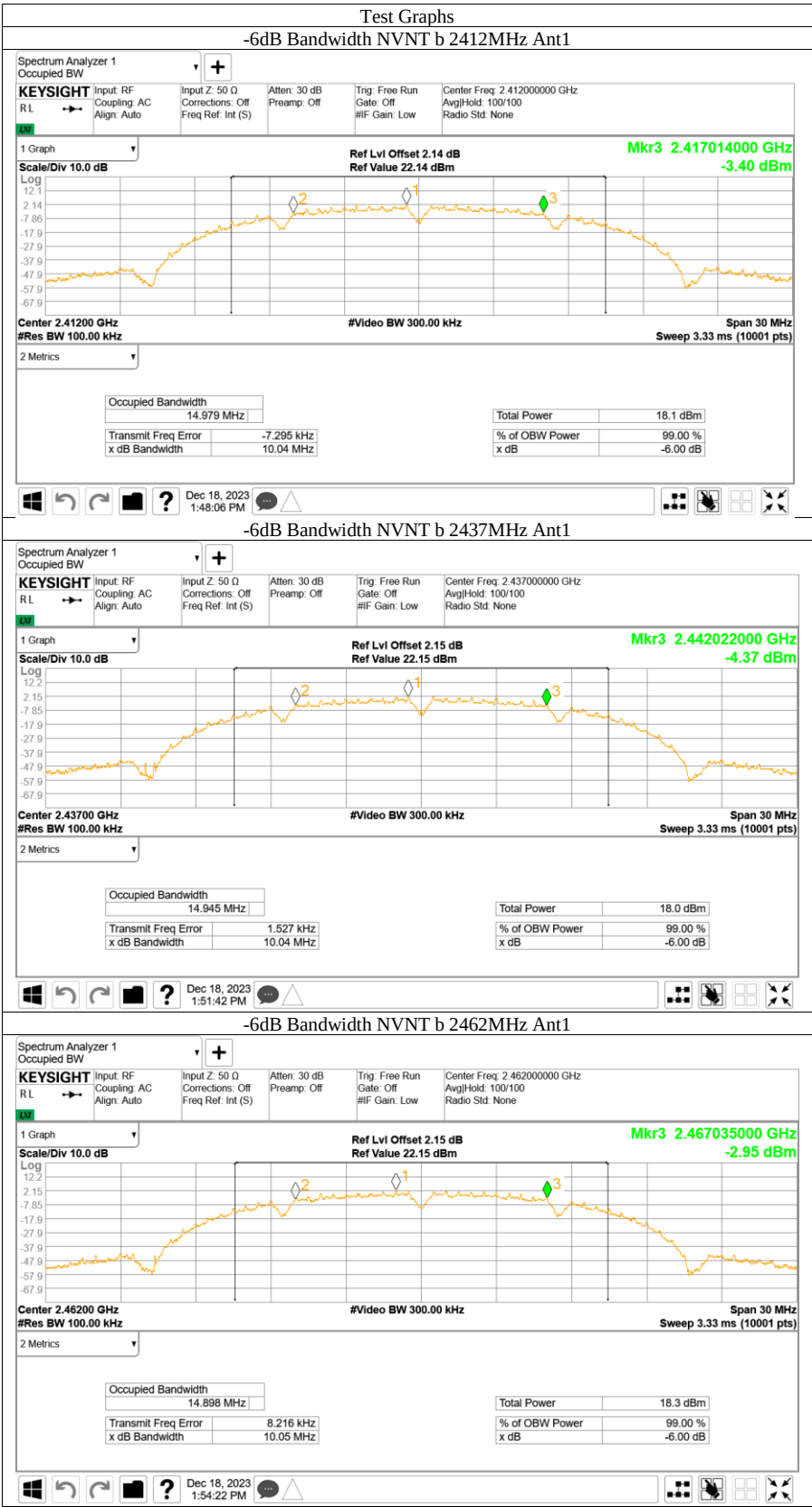
≥ 500

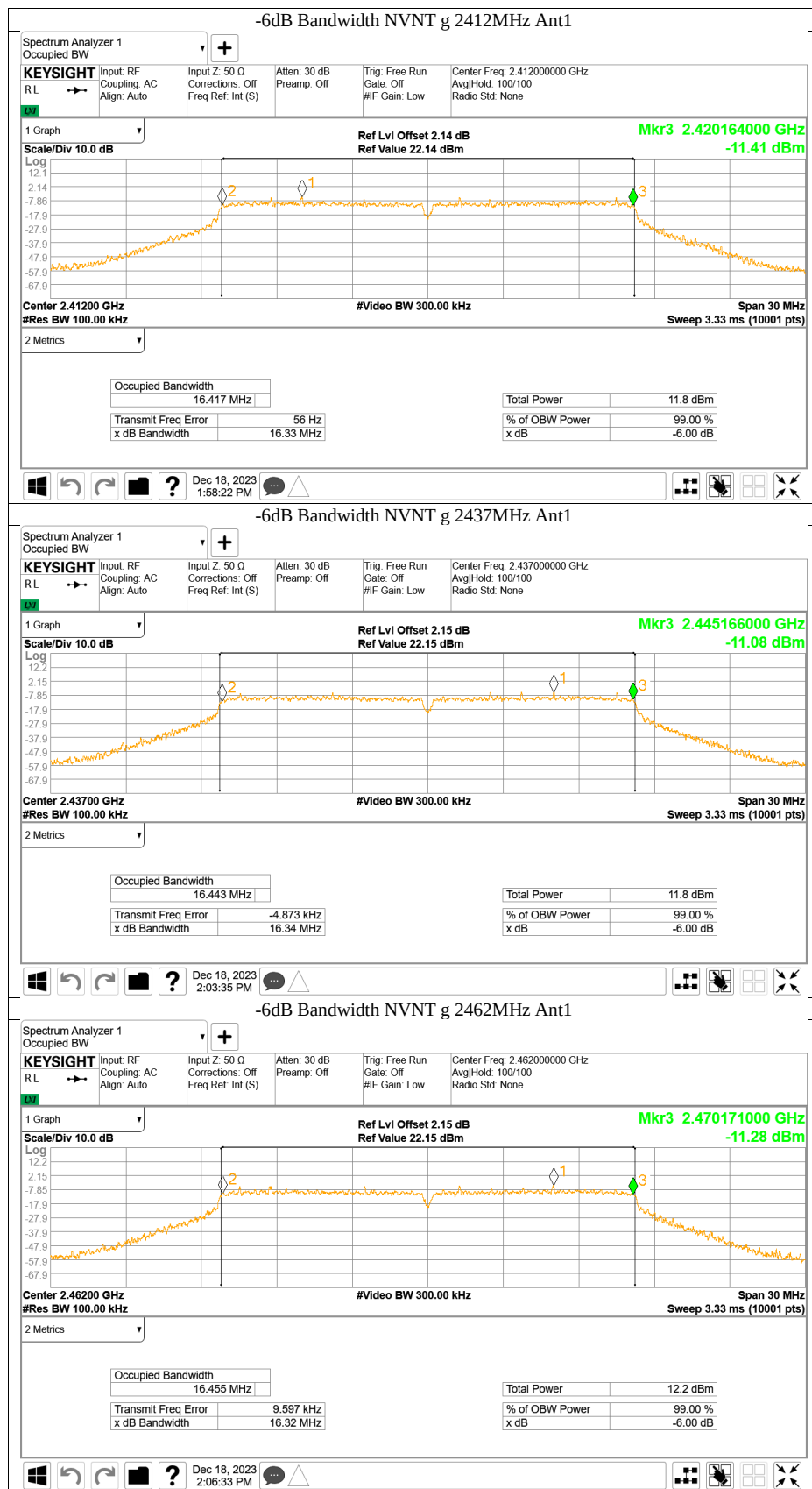
Test result

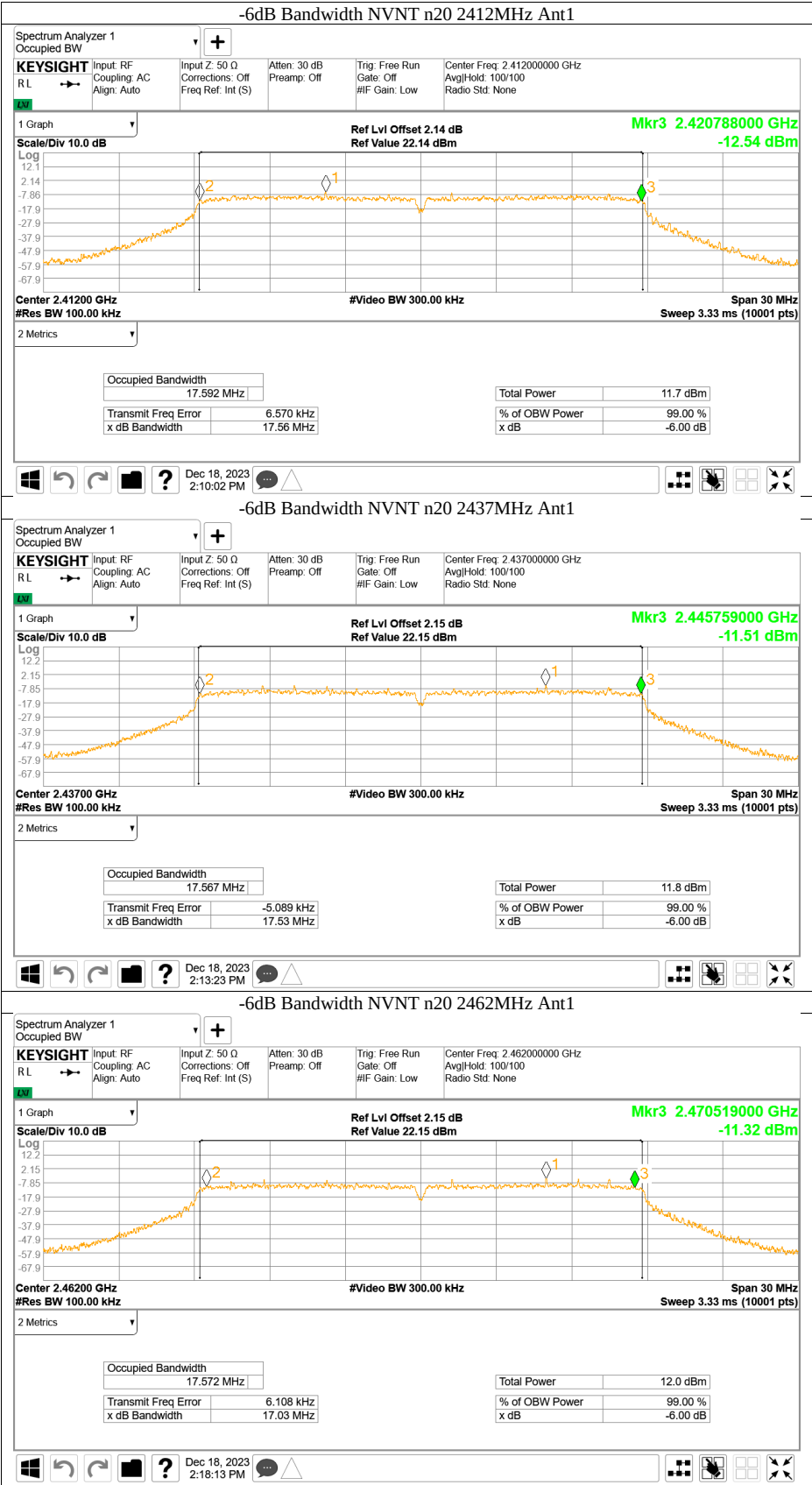
Test Mode	Frequency MHz	6dB bandwidth (MHz)		Result
		result	limit	verdict
802.11b	2412	10.043	≥ 0.5	Pass
	2437	10.042	≥ 0.5	Pass
	2462	10.054	≥ 0.5	Pass
802.11g	2412	16.328	≥ 0.5	Pass
	2437	16.343	≥ 0.5	Pass
	2462	16.322	≥ 0.5	Pass
802.11n(HT20)	2412	17.563	≥ 0.5	Pass
	2437	17.528	≥ 0.5	Pass
	2462	17.026	≥ 0.5	Pass
802.11n(HT40)	2422	35.333	≥ 0.5	Pass
	2437	35.06	≥ 0.5	Pass
	2452	35.061	≥ 0.5	Pass

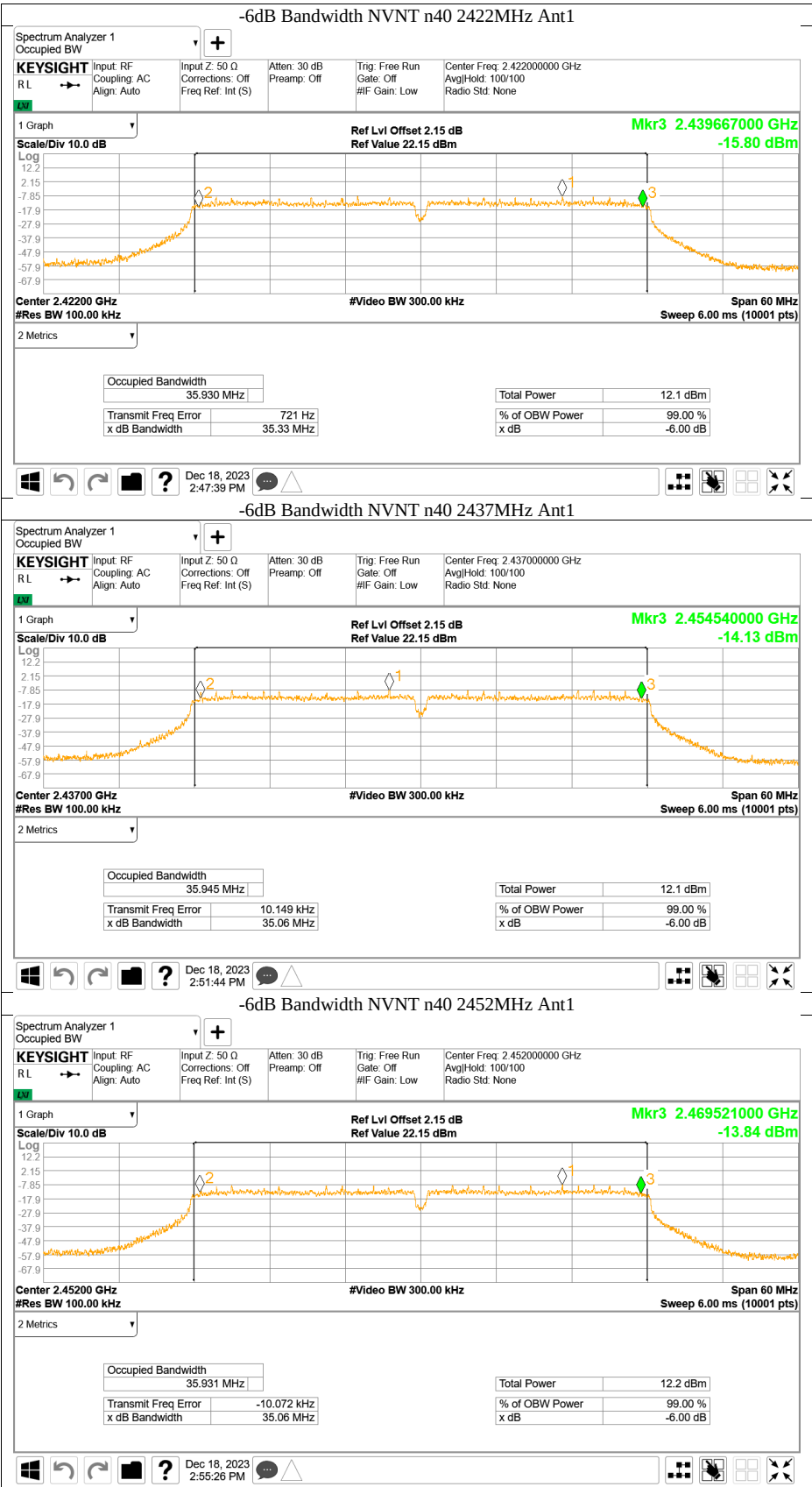


6 dB Bandwidth









10.4 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW $\geq$ 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
6. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm/3KHz]
 ≤ 8

Test result

802.11 B

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-10.20	Pass
Middle channel 2437MHz	-11.92	Pass
High channel 2462MHz	-11.67	Pass

802.11 G

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-19.15	Pass
Middle channel 2437MHz	-18.97	Pass
High channel 2462MHz	-19.22	Pass

802.11 N20

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-19.71	Pass
Middle channel 2437MHz	-19.35	Pass
High channel 2462MHz	-17.69	Pass

802.11 N40

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-22.3	Pass
Middle channel 2437MHz	-22.15	Pass
High channel 2462MHz	-21.00	Pass



Power Spectral Density Level

