

**FCC - TEST REPORT**

Report Number : **709502507002-00B** Date of Issue: August 26, 2025

Model : IOP25, IOL25

Product Type : Thermal Imaging Rifle Sight

Applicant : Infitac LLC

Address : 190 E Stacy Rd, Ste 306358, Allen, Texas 75002, United States

Manufacturer : Infitac LLC

Address : 190 E Stacy Rd, Ste 306358, Allen, Texas 75002, United States

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including
Appendices : 89



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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
709502507002-00B	First Issue	08/26/2025

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 Designation Number: CN1183

ISED CAB identifier CN0101

IC Registration No.: 31668



4 Description of the Equipment under Test

Product: Thermal Imaging Rifle Sight

Model no.: IOP25, IOL25

FCC ID: 2BRRE-IOTST1

Options and accessories: NA

Rating: 5VDC by Type C
3.6VDC Max by internal battery

RF Transmission Frequency:
No. of Operated Channel: 802.11b/g/n-HT20: 2412~2462 MHz
11 for 802.11b/802.11g/802.11n(H20)

Modulation: Direct Sequence Spread Spectrum (DSSS) for 802.11b
Orthogonal Frequency Division Multiplexing (OFDM) for 802.11g/n

Hardware Version: V1_0

Software Version: V1.4.8

Data speed: 11b 1-11Mbps
11g 6-54Mbps
11n(HT20) 6.5-72.2Mbps

Channel list:

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

Antenna Type: BT FPC antenna

Antenna Gain: 0.5 dBi

Description of the EUT: The Equipment Under Test (EUT) is a Thermal Imaging Rifle Sight with Wi-Fi Module. The EUT support Wi-Fi operated at 2.4GHz.



Test sample no.: SHA-944366-3 (Radiated sample for IOP25)
 SHA-944366-2 (Conducted sample)
 SHA-949023-1 (Radiated sample for IOL25)

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 10-1-2023 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 (average) output power	19-24	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 and 99% Occupied Bandwidth	25-31	Site 1	☒	☐	☐
§15.247(e)	Power spectral density	32-35	Site 1	☒	☐	☐
§15.247(d)	Spurious RF conducted emissions	36-48	Site 1	☒	☐	☐
§15.247(d)	Band edge	49-53	Site 1	☒	☐	☐
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	54-84	Site 1	☒	☐	☐
§15.203	Antenna requirement	See note 1		☒	☐	☐

Remark 1: N/A – Not Applicable.

Note 1: The EUT uses a BT FPC antenna, which gain is 0.5 dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.

15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi



7 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2BRRE-IOTST1, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C Rules.

According to the client's declaration, the IOP25 have the same appearance and technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, with IOL25. The differences of them are as follows: 1.model name 2. detector resolution 3. memory stick speed. The main differences do not impact the RF Performance.
detailed model differences as below table.

	IOP25	IOL25
detector resolution	256*192	384*288
memory stick	GDQ2BFAA-WQ:2666Mbps	GDQ2BFAA-WJ: 3200Mbps

After technical evaluation, we chose model IOP25 to only perform all tests and model IOL25 to perform "Spurious radiated emissions for transmitter (below 1GHz)" test.

We tested it and listed the worst data in this report.

SUMMARY:

All tests according to the regulations cited on page 6 were

☒ - Performed

☐ - **Not** Performed

The Equipment under Test

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

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

Sample Received Date: August 7, 2025

Testing Start Date: August 17, 2025

Testing End Date: August 23, 2025

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



Reviewed by:

Prepared by:

Tested by:



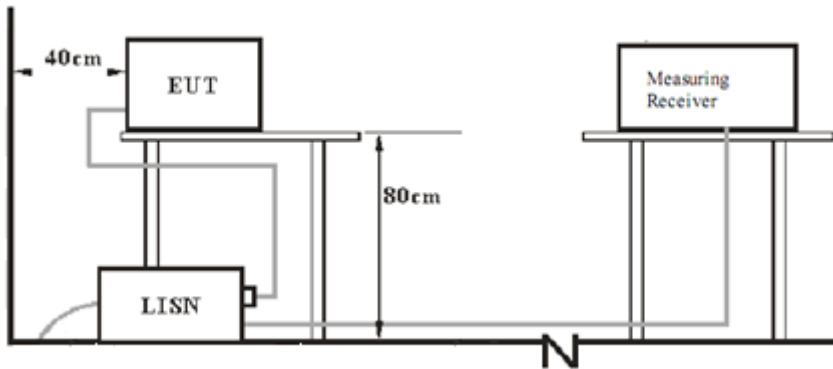
Hui TONG
Review Engineer

Wenqiang LU
Project Engineer

Chengjie GUO
Test Engineer

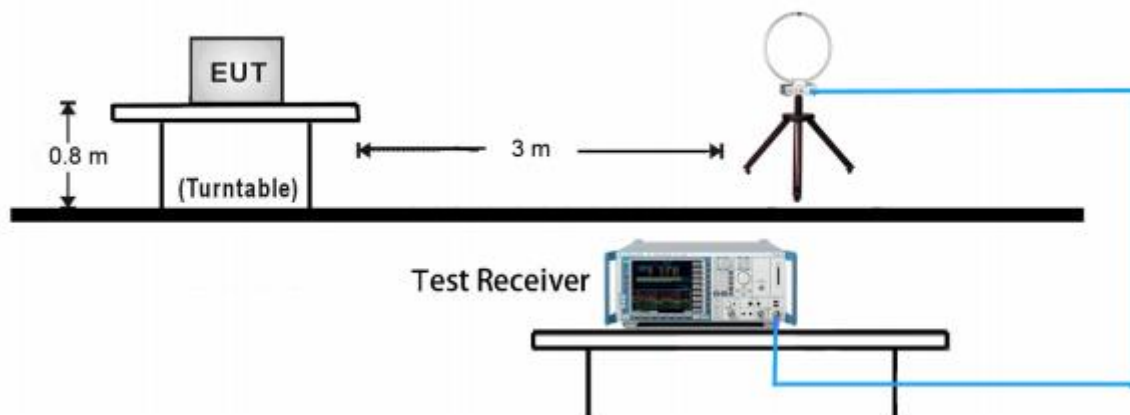
8 Test Setups

8.1 AC Power Line Conducted Emission test setups

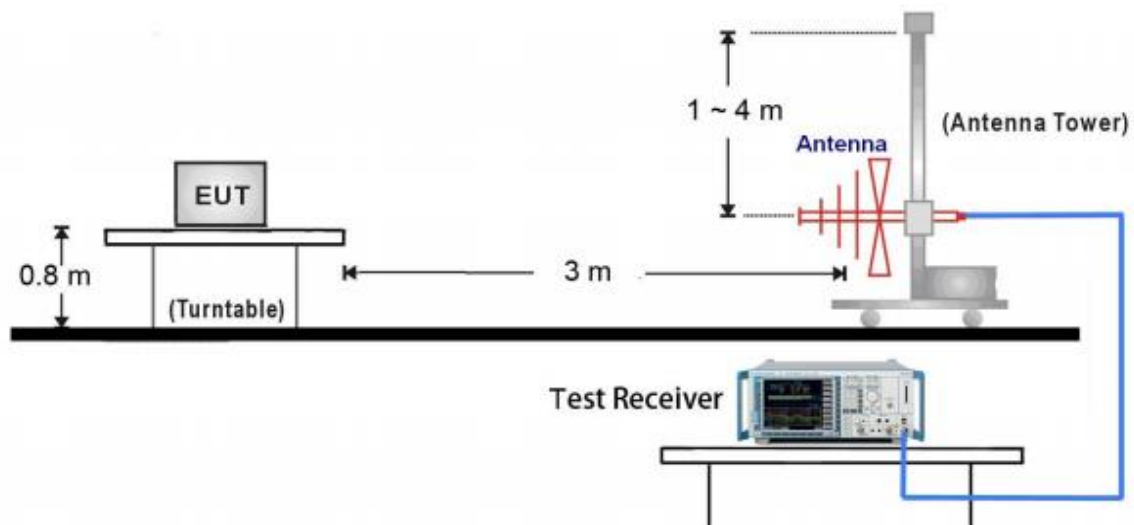


8.2 Radiated test setups

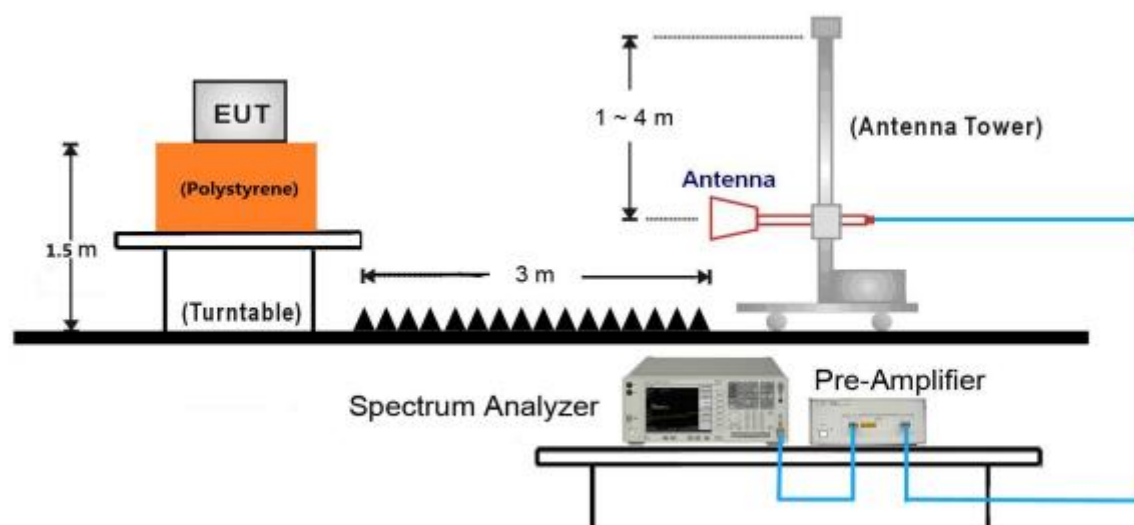
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:

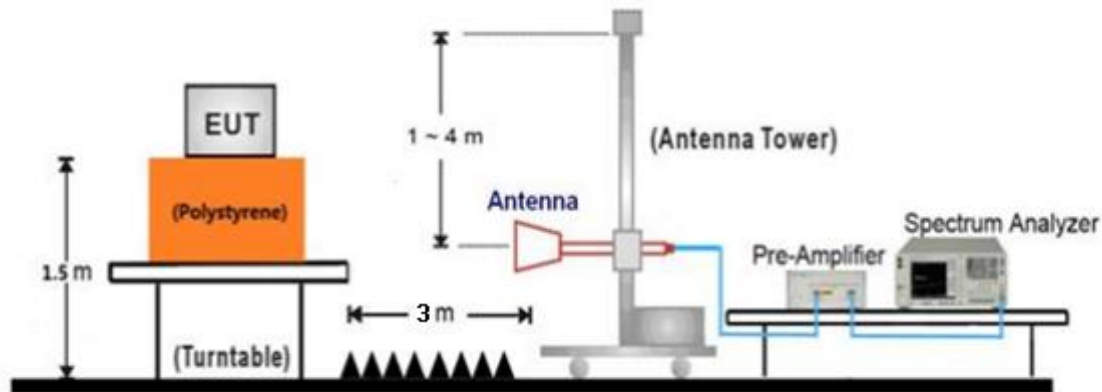


1GHz ~ 18GHz Test Setup:



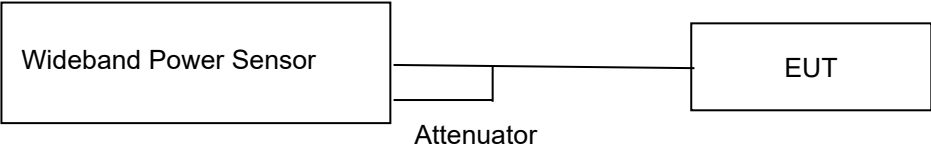


18GHz ~ 25GHz Test Setup:

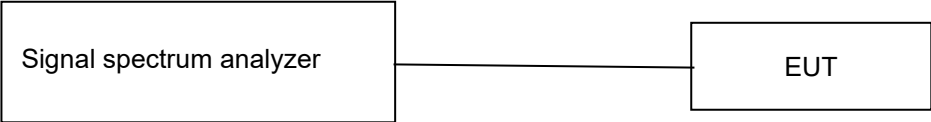


8.3 Conducted RF test setups

For Conducted peak output power



For other test items





9 Systems test configuration

Auxiliary Equipment Used during Test:

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

Transmitting mode:

1. Enable the IOT function of the device;
2. The device is connected to the PC via usb. On the PC end, you can see the storage disk marked with "IOP25".
3. Copy wl and fccce.sh to the cal directory;
4. 4. Restart the device, and it will be in the transmission mode
5. If you need to switch channels, simply rename the corresponding script in the TX fixed-frequency script folder to fccce.sh, copy it to the cal directory and then restart.

The system was configured to 802.11b/g/n-HT20 channel 1(2412MHz), 6(2437MHz), and 11(2462MHz).

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Index Value (Power level setting)
802.11b	1	1	CCK	default
	6	1	CCK	default
	11	1	CCK	default
802.11g	1	6	OFDM	default
	6	6	OFDM	default
	11	6	OFDM	default
802.11n HT20	1	MCS0 (6.5Mbps)	OFDM	default
	6	MCS0 (6.5Mbps)	OFDM	default
	11	MCS0 (6.5Mbps)	OFDM	default

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. An EMI test receiver is used to test the emissions from both sides of AC line

Limit

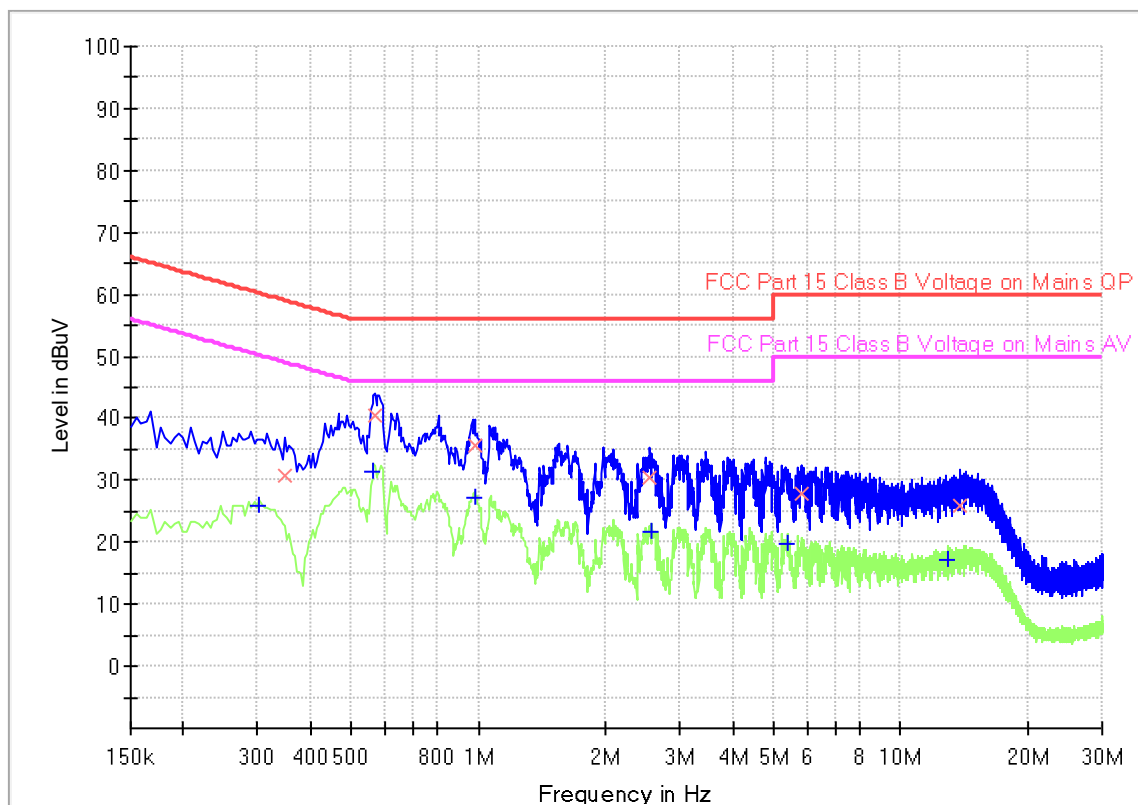
According to §15.207, conducted emissions limit as below:

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

Conducted Emission

Product Type : Thermal Imaging Rifle Sight
 M/N : IOP25
 Operating Condition : Transmit mode, 802.11g Tx_2462MHz (worst case)
 Test Specification : L-line
 Comment : 120V~, 60Hz

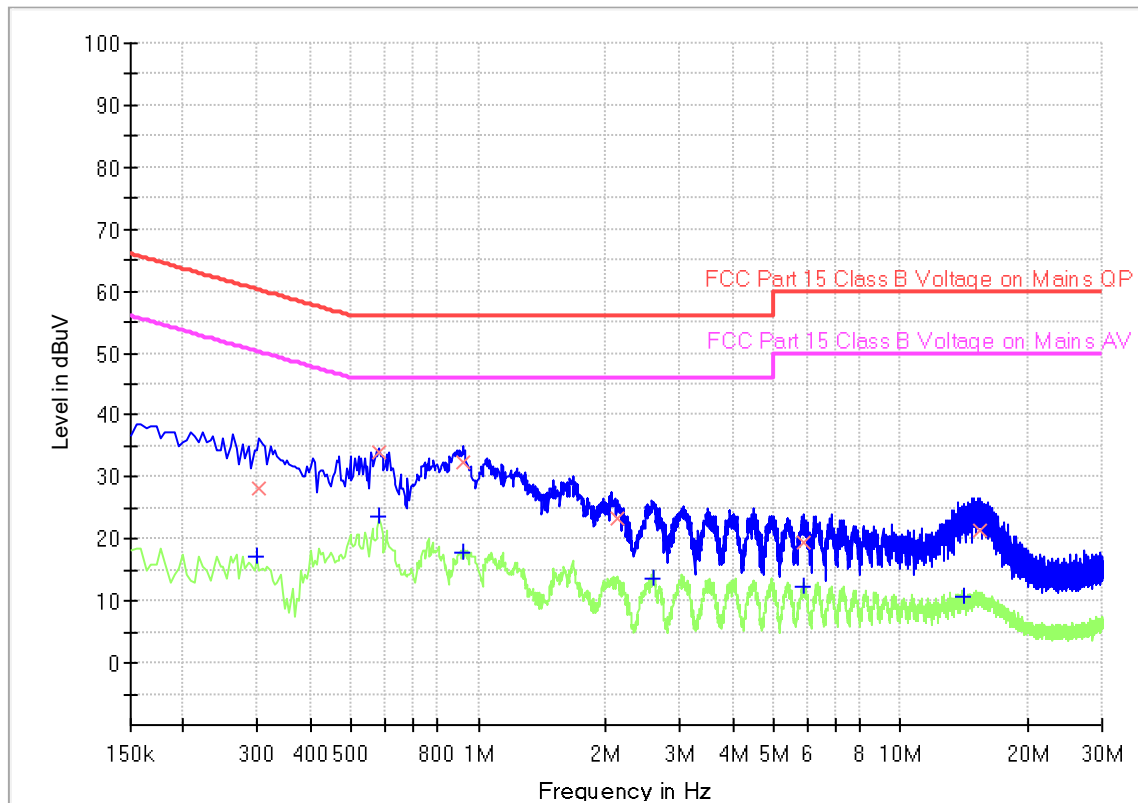


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.303000	---	26.04	50.16	24.12	1000.0	9.000	L1	19.4
0.348000	30.90	---	59.01	28.11	1000.0	9.000	L1	19.4
0.564000	---	31.26	46.00	14.74	1000.0	9.000	L1	19.4
0.568500	40.33	---	56.00	15.67	1000.0	9.000	L1	19.4
0.978000	35.58	---	56.00	20.42	1000.0	9.000	L1	19.4
0.982500	---	27.17	46.00	18.83	1000.0	9.000	L1	19.4
2.553000	30.59	---	56.00	25.41	1000.0	9.000	L1	19.4
2.562000	---	21.84	46.00	24.16	1000.0	9.000	L1	19.4
5.388000	---	19.71	50.00	30.29	1000.0	9.000	L1	19.5
5.833500	27.88	---	60.00	32.12	1000.0	9.000	L1	19.5
12.912000	---	17.15	50.00	32.85	1000.0	9.000	L1	19.7
13.825500	25.98	---	60.00	34.02	1000.0	9.000	L1	19.7

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

Product Type : Thermal Imaging Rifle Sight
 M/N : IOP25
 Operating Condition : Transmit mode, 802.11g Tx_2462MHz (worst case)
 Test Specification : N-line
 Comment : 120V~, 60Hz

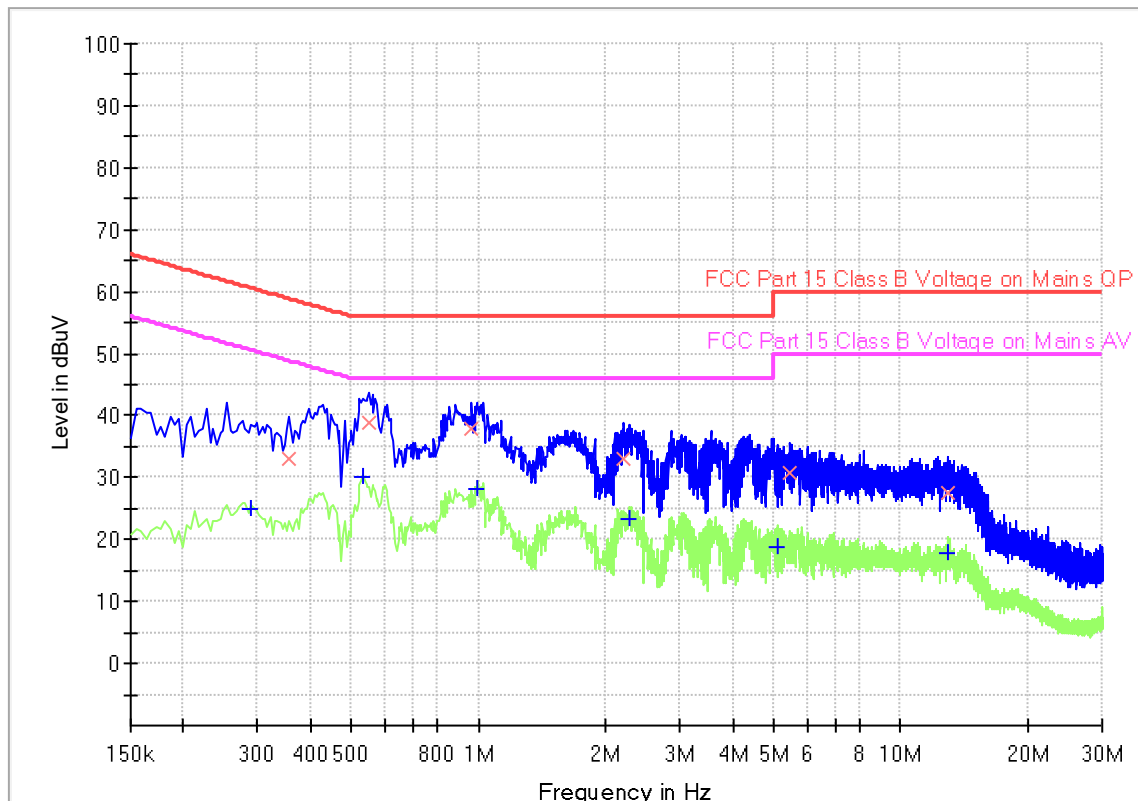


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.298500	---	17.06	50.28	33.22	1000.0	9.000	N	19.4
0.303000	28.10	---	60.16	32.06	1000.0	9.000	N	19.4
0.582000	---	23.67	46.00	22.33	1000.0	9.000	N	19.5
0.582000	33.89	---	56.00	22.11	1000.0	9.000	N	19.5
0.919500	---	17.77	46.00	28.23	1000.0	9.000	N	19.4
0.919500	32.41	---	56.00	23.59	1000.0	9.000	N	19.4
2.139000	23.36	---	56.00	32.64	1000.0	9.000	N	19.4
2.593500	---	13.53	46.00	32.47	1000.0	9.000	N	19.4
5.865000	---	12.34	50.00	37.66	1000.0	9.000	N	19.5
5.869500	19.34	---	60.00	40.66	1000.0	9.000	N	19.5
14.041500	---	10.78	50.00	39.22	1000.0	9.000	N	19.7
15.328500	21.41	---	60.00	38.59	1000.0	9.000	N	19.7

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB) + 10dB Attenuator

Product Type : Thermal Imaging Rifle Sight
 M/N : IOL25
 Operating Condition : Transmit mode, 802.11g Tx_2462MHz (worst case)
 Test Specification : L-line
 Comment : 120V~, 60Hz



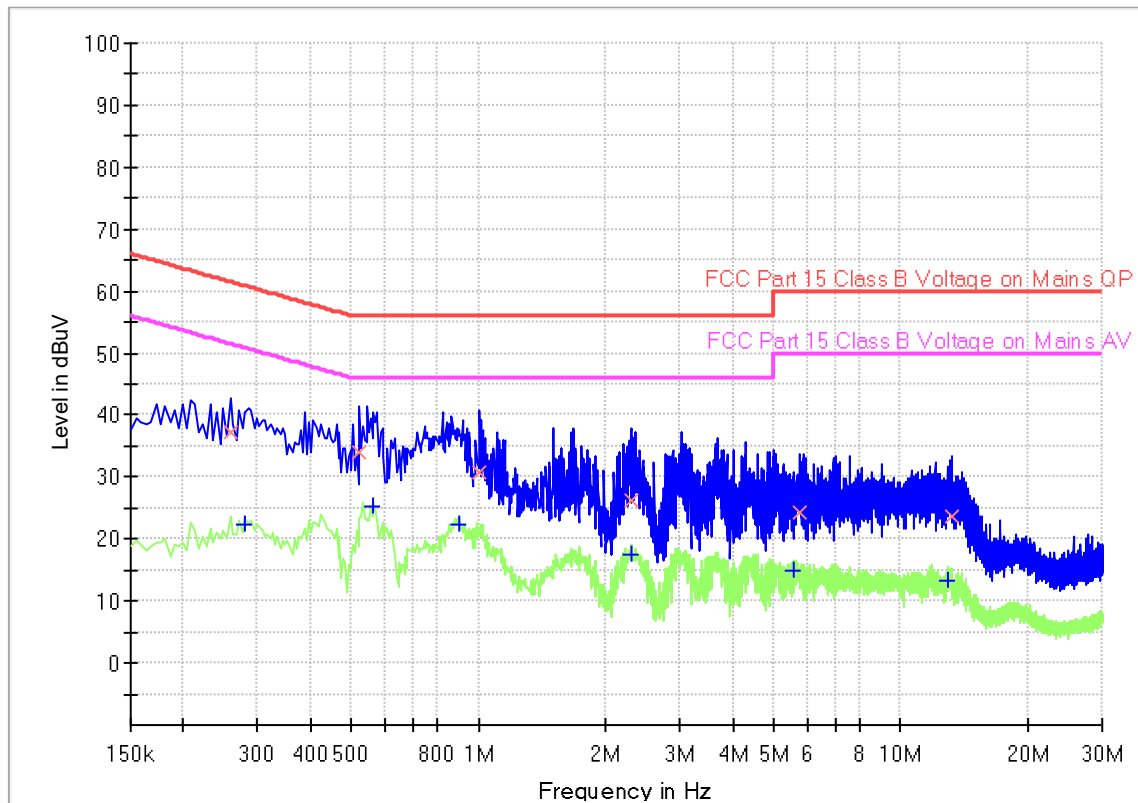
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.289500	---	25.09	50.54	25.45	1000.0	9.000	L1	19.4
0.357000	33.10	---	58.80	25.70	1000.0	9.000	L1	19.4
0.532500	---	30.16	46.00	15.84	1000.0	9.000	L1	19.4
0.550500	38.90	---	56.00	17.10	1000.0	9.000	L1	19.4
0.964500	37.81	---	56.00	18.19	1000.0	9.000	L1	19.4
0.996000	---	28.16	46.00	17.84	1000.0	9.000	L1	19.4
2.215500	33.03	---	56.00	22.97	1000.0	9.000	L1	19.4
2.274000	---	23.17	46.00	22.83	1000.0	9.000	L1	19.4
5.136000	---	18.77	50.00	31.23	1000.0	9.000	L1	19.5
5.487000	30.62	---	60.00	29.38	1000.0	9.000	L1	19.5
12.930000	---	17.71	50.00	32.29	1000.0	9.000	L1	19.7
12.930000	27.43	---	60.00	32.57	1000.0	9.000	L1	19.7

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

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

Product Type : Thermal Imaging Rifle Sight
 M/N : IOL25
 Operating Condition : Transmit mode, 802.11g Tx_2462MHz (worst case)
 Test Specification : N-line
 Comment : 120V~, 60Hz



Final Result

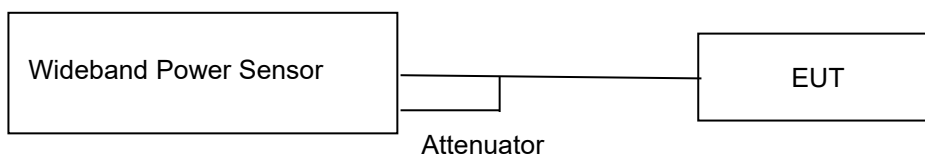
Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.258000	37.11	---	61.50	24.39	1000.0	9.000	N	19.4
0.280500	---	22.43	50.80	28.37	1000.0	9.000	N	19.4
0.523500	34.04	---	56.00	21.96	1000.0	9.000	N	19.5
0.564000	---	25.39	46.00	20.61	1000.0	9.000	N	19.5
0.897000	---	22.39	46.00	23.61	1000.0	9.000	N	19.4
1.005000	30.73	---	56.00	25.27	1000.0	9.000	N	19.4
2.292000	26.18	---	56.00	29.82	1000.0	9.000	N	19.4
2.310000	---	17.50	46.00	28.50	1000.0	9.000	N	19.4
5.604000	---	14.82	50.00	35.18	1000.0	9.000	N	19.5
5.766000	24.36	---	60.00	35.64	1000.0	9.000	N	19.5
12.889500	---	13.23	50.00	36.77	1000.0	9.000	N	19.7
13.222500	23.49	---	60.00	36.51	1000.0	9.000	N	19.7

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(average) output power

Test Method for conducted peak power

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- 4) Measure the peak power of the transmitter. This measurement is a peak over both the ON and OFF periods of the transmitter.



Wideband Power Sensor conducted test setup

Test Method for average power

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) (3), 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 (conducted peak) as below table

B mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	11.99	≤30	Pass
2437MHz	12.11	≤30	Pass
2462MHz	12.31	≤30	Pass

G mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	20.04	≤30	Pass
2437MHz	20.28	≤30	Pass
2462MHz	20.61	≤30	Pass

N20 mode

Frequency (MHz)	Conducted Peak Output Power (dBm) §15.247 (b) (3)		
	Result	limit	Verdict
2412MHz	20.12	≤30	Pass
2437MHz	20.43	≤30	Pass
2462MHz	20.47	≤30	Pass



Test result (average power) as below table

802.11B

Frequency MHz	Duty cycle Factor dB	Conducted Power dBm	Total Power(average) dBm	Result
Low channel 2412MHz	0.47	7.62	8.09	Pass
Middle channel 2437MHz	0.47	7.9	8.37	Pass
High channel 2462MHz	0.47	8.09	8.56	Pass

802.11G

Frequency MHz	Duty cycle Factor dB	Conducted Power dBm	Total Power(average) dBm	Result
Low channel 2412MHz	1.95	6.27	8.22	Pass
Middle channel 2437MHz	1.95	6.63	8.58	Pass
High channel 2462MHz	1.95	6.98	8.93	Pass

802.11N20

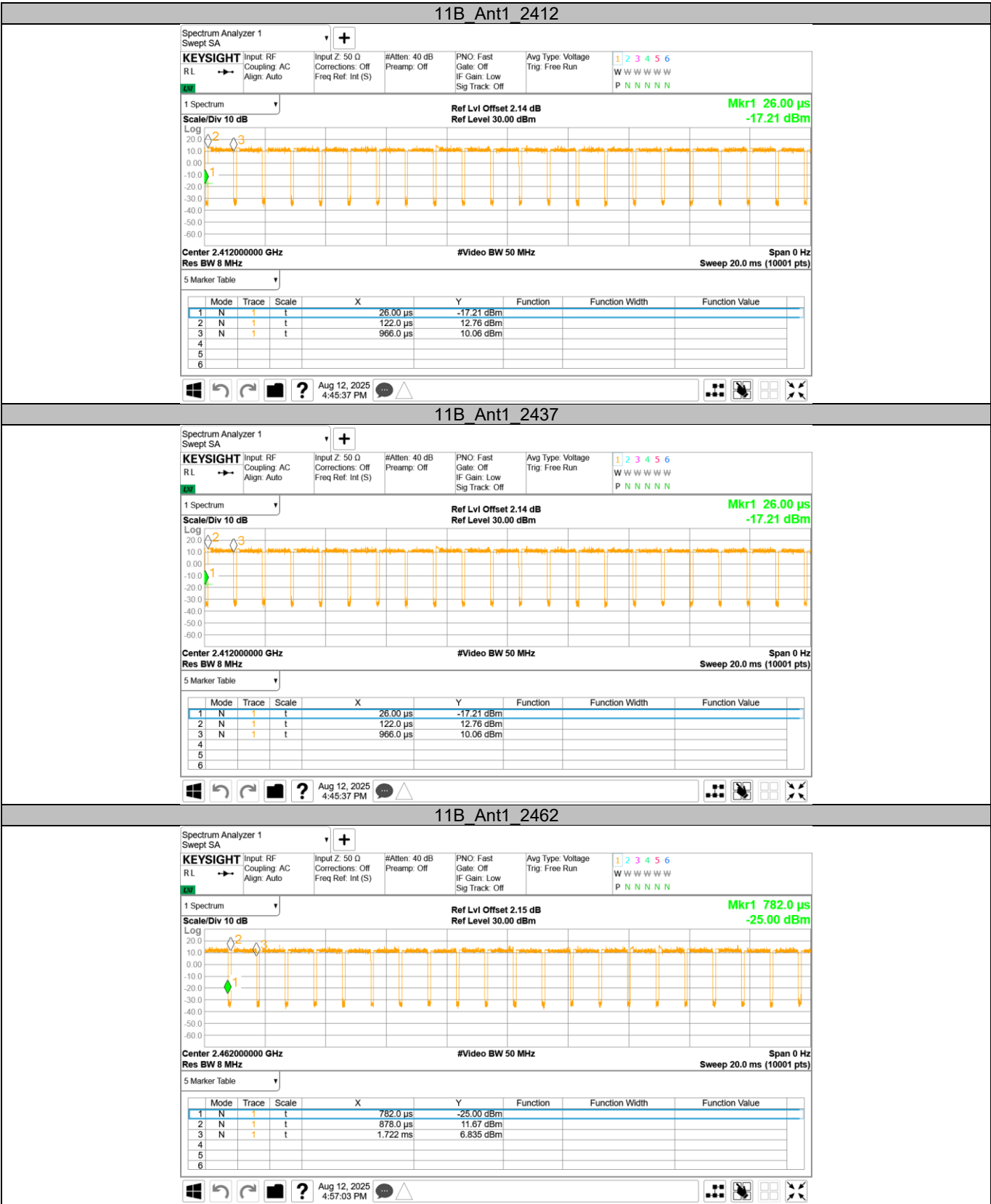
Frequency MHz	Duty cycle Factor dB	Conducted Power dBm	Total Power(average) dBm	Result
Low channel 2412MHz	2.07	6.23	8.3	Pass
Middle channel 2437MHz	2.07	6.67	8.74	Pass
High channel 2462MHz	2.07	6.73	8.8	Pass

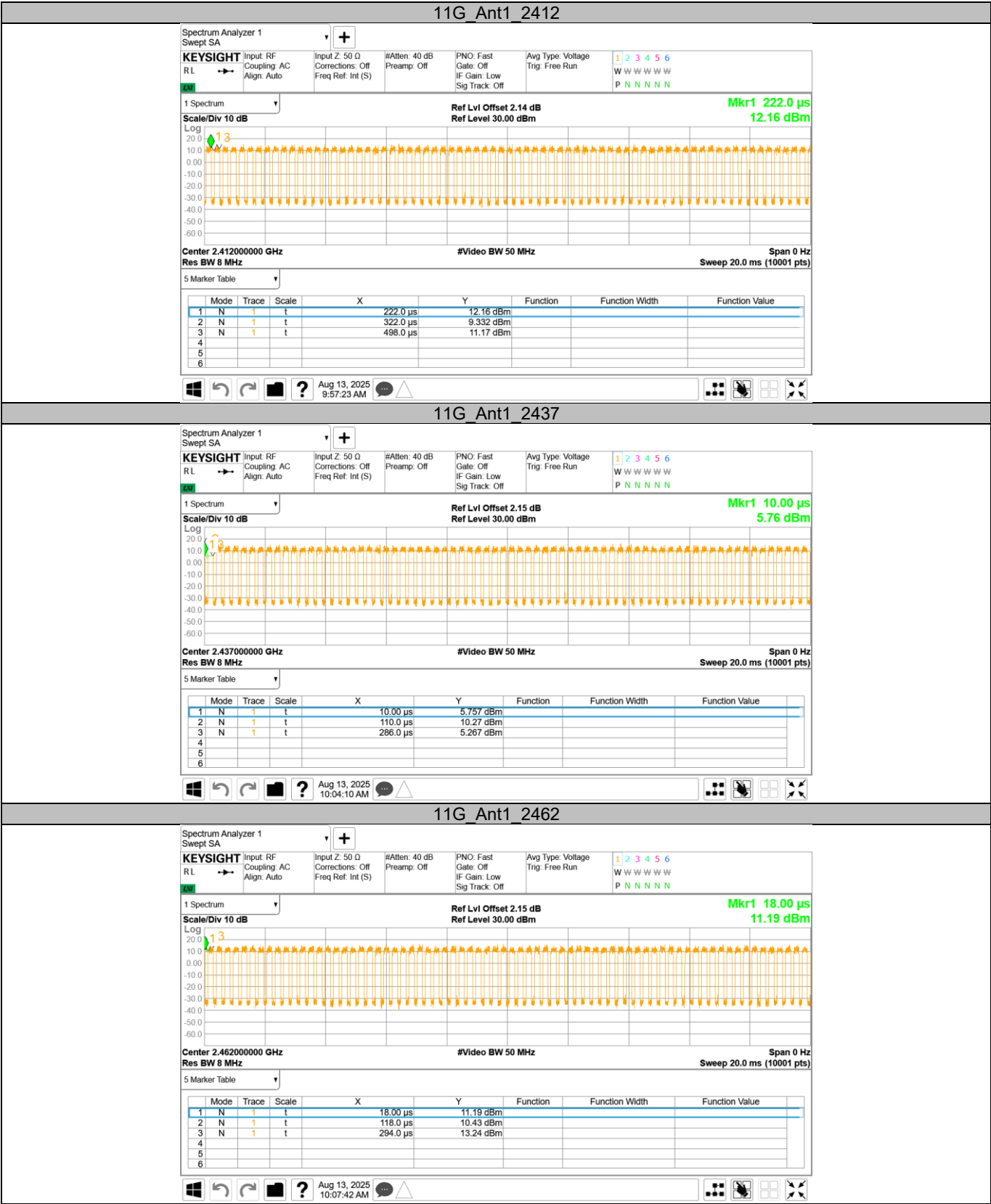
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	89.79	0.47
NVNT	b	2437	Ant1	89.81	0.47
NVNT	b	2462	Ant1	89.79	0.47
NVNT	g	2412	Ant1	63.77	1.95
NVNT	g	2437	Ant1	63.77	1.95
NVNT	g	2462	Ant1	63.77	1.95
NVNT	n20	2412	Ant1	62.12	2.07
NVNT	n20	2437	Ant1	62.12	2.07
NVNT	n20	2462	Ant1	62.12	2.07



Duty Cycle







10.3 6dB bandwidth and 99% Occupied 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:
4. RBW=1% to 5% of the occupied bandwidth but not less than 100kHz, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
5. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
6. Allow the trace to stabilize, record the 6 dB Bandwidth value.

Test Method for 99 % Bandwidth

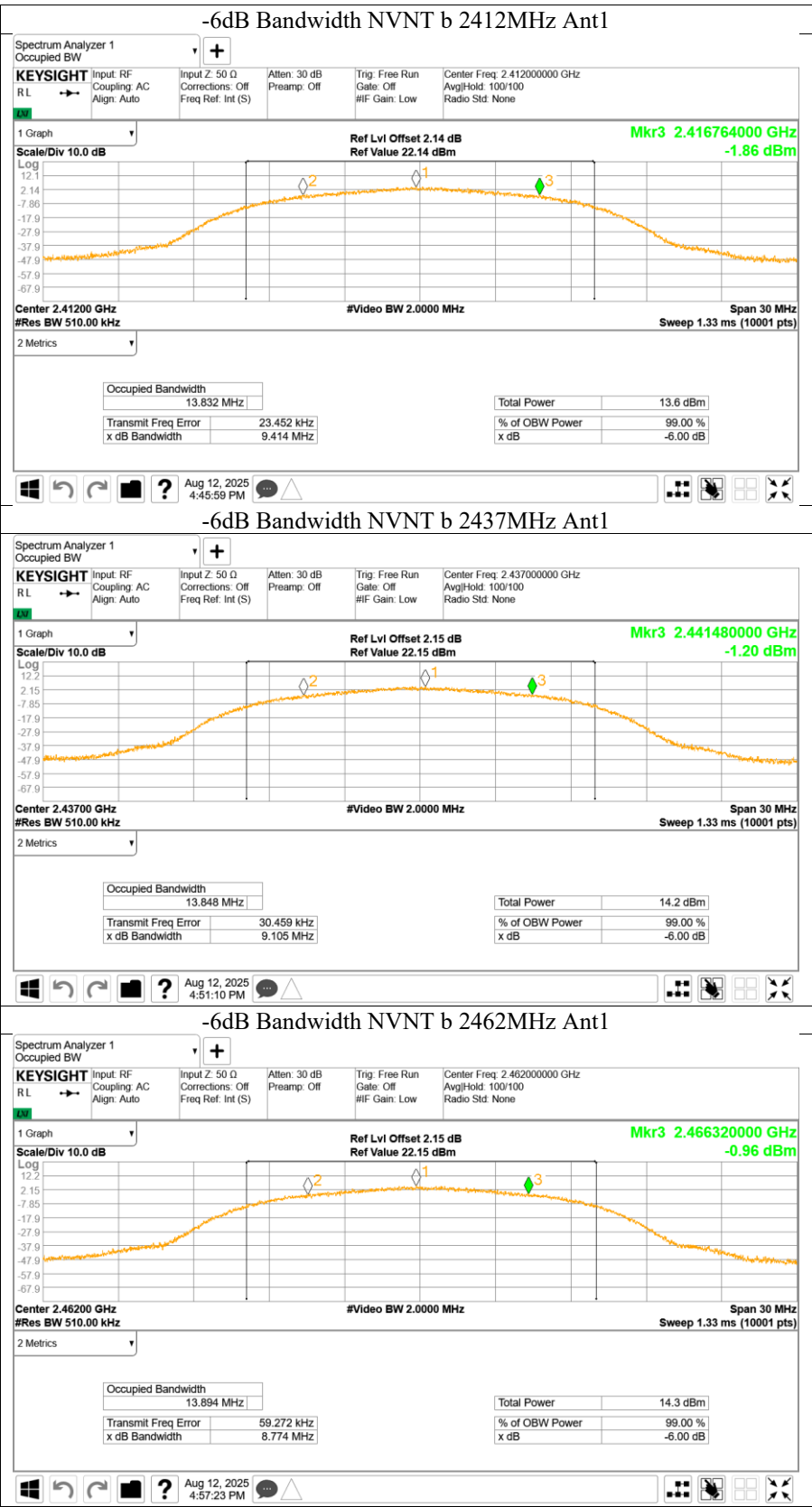
1. Connect EUT test port to spectrum analyzer.
Use the following spectrum analyzer settings:
RBW=1% to 5% of the actual occupied, VBW $\geq$ 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the occupied bandwidth measurement capability of test receiver.
3. Allow the trace to stabilize,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

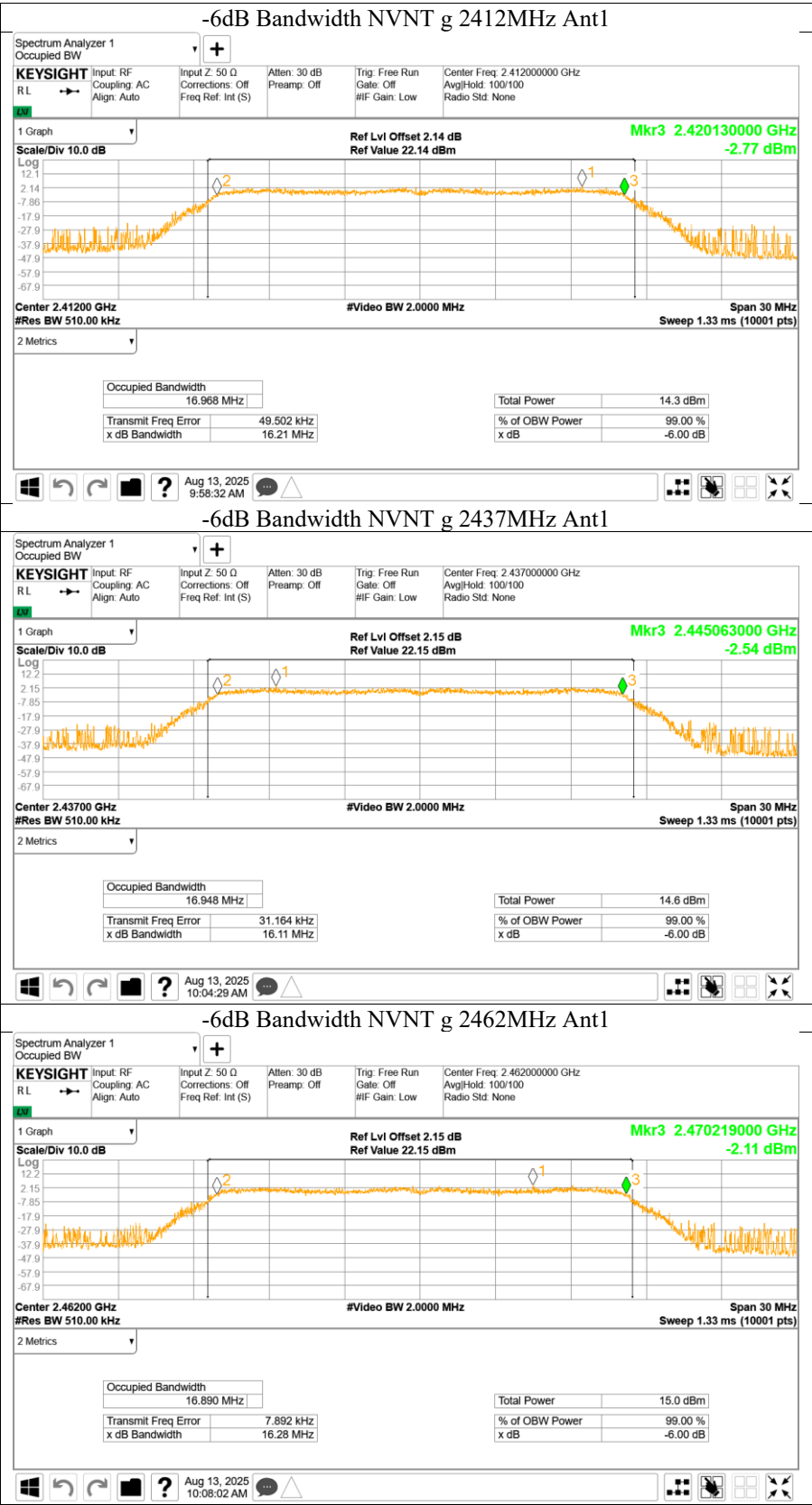
Limit

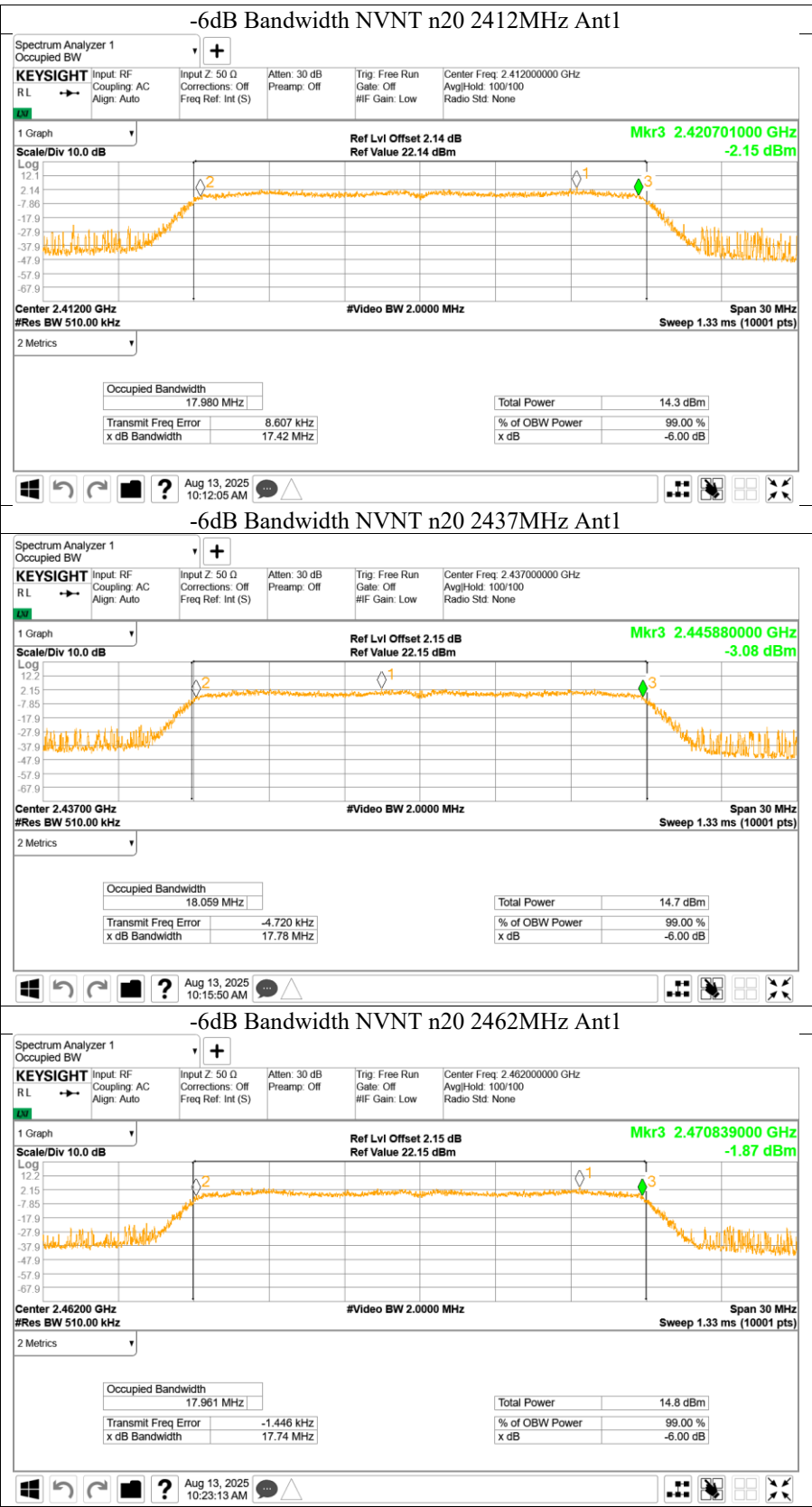
6dB bandwidth Limit [kHz]	99% bandwidth Limit [kHz]
≥ 500	--

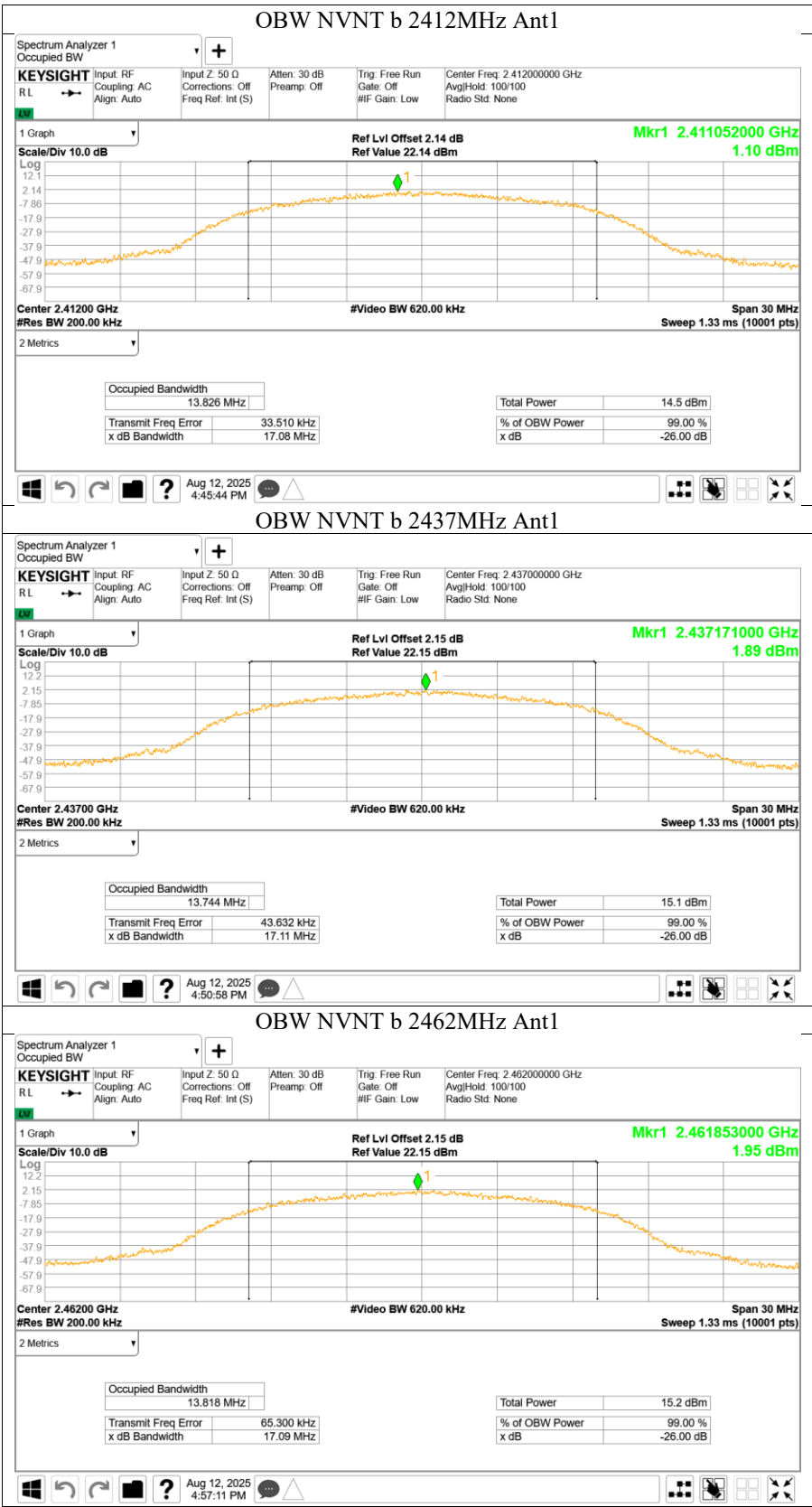
Test Result

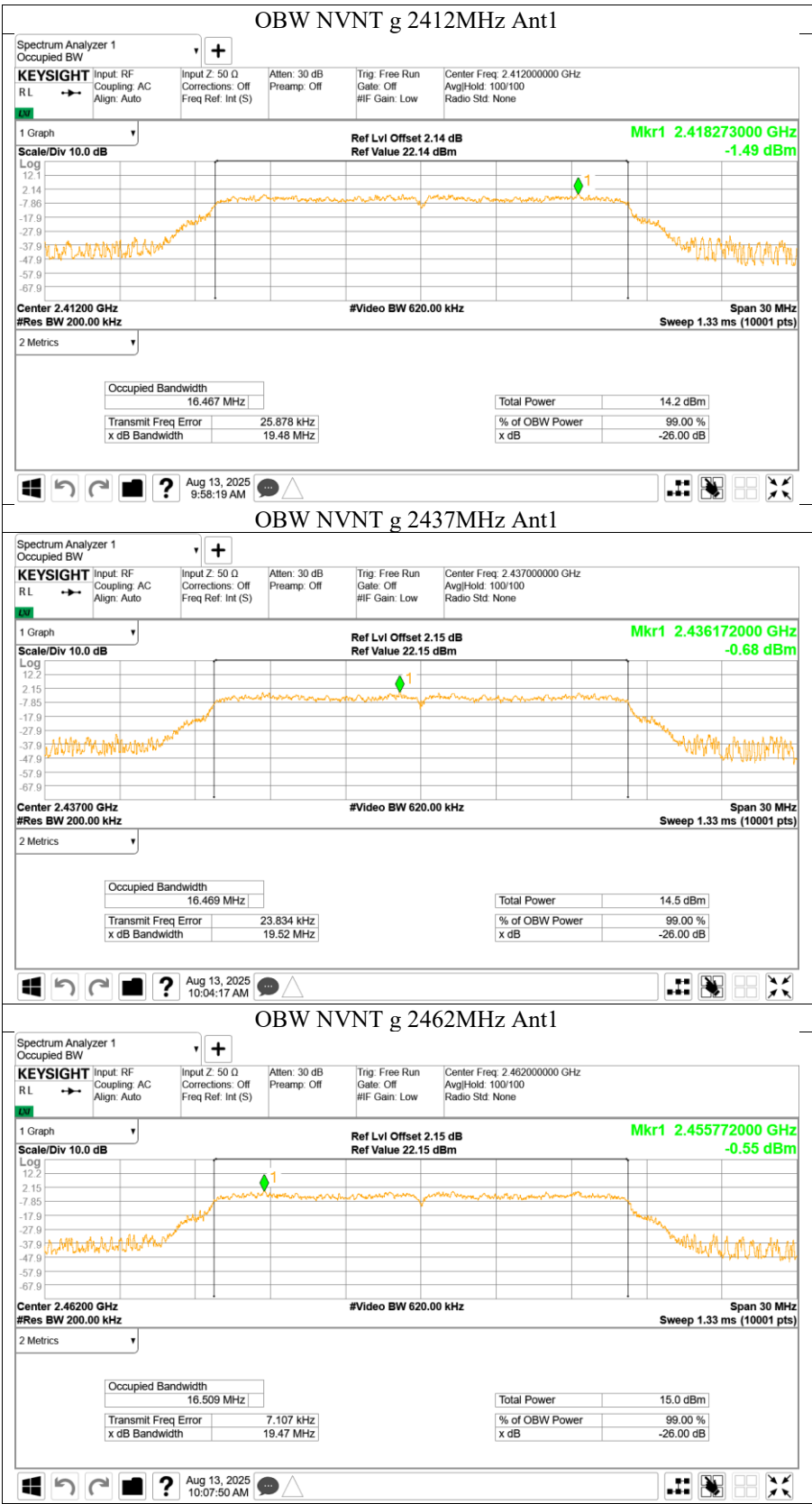
Test Mode	Frequency MHz	6dB bandwidth (MHz)		Result	99% occupied bandwidth MHz
		result	limit	verdict	
802.11b	2412	9.414	≥ 0.5	Pass	13.826
	2437	9.105	≥ 0.5	Pass	13.744
	2462	8.774	≥ 0.5	Pass	13.818
802.11g	2412	16.209	≥ 0.5	Pass	16.467
	2437	16.109	≥ 0.5	Pass	16.469
	2462	16.282	≥ 0.5	Pass	16.509
802.11n(HT20)	2412	17.422	≥ 0.5	Pass	17.734
	2437	17.778	≥ 0.5	Pass	17.739
	2462	17.736	≥ 0.5	Pass	17.713

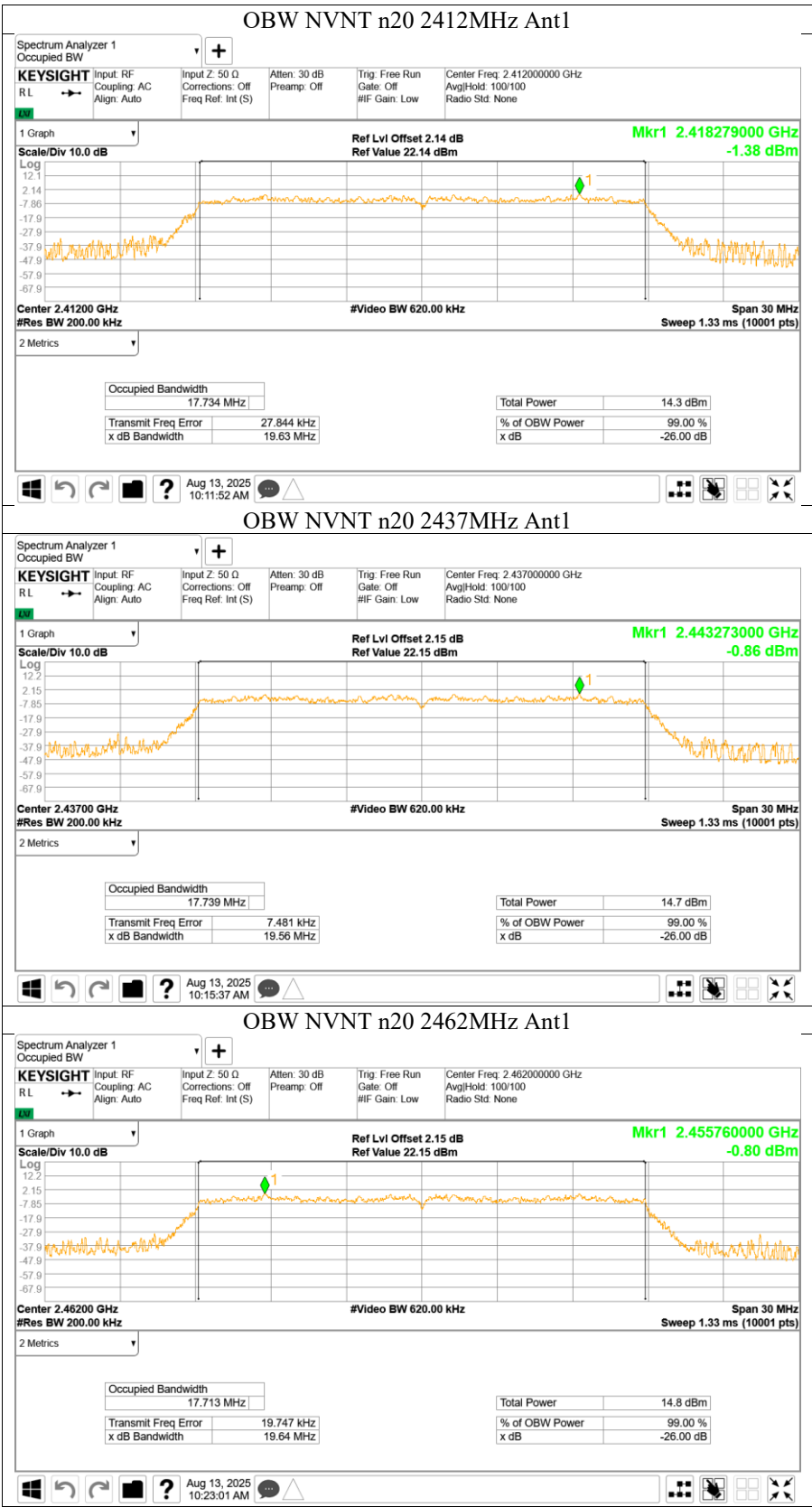














10.4 Power spectral density

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	-14.98	Pass
Middle channel 2437MHz	-14.79	Pass
High channel 2462MHz	-13.99	Pass

802.11 G

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-16.31	Pass
Middle channel 2437MHz	-17.37	Pass
High channel 2462MHz	-16.16	Pass

802.11 N20

Frequency MHz	Power spectral density dBm/3kHz	Result
Low channel 2412MHz	-17.11	Pass
Middle channel 2437MHz	-16.28	Pass
High channel 2462MHz	-16.14	Pass

