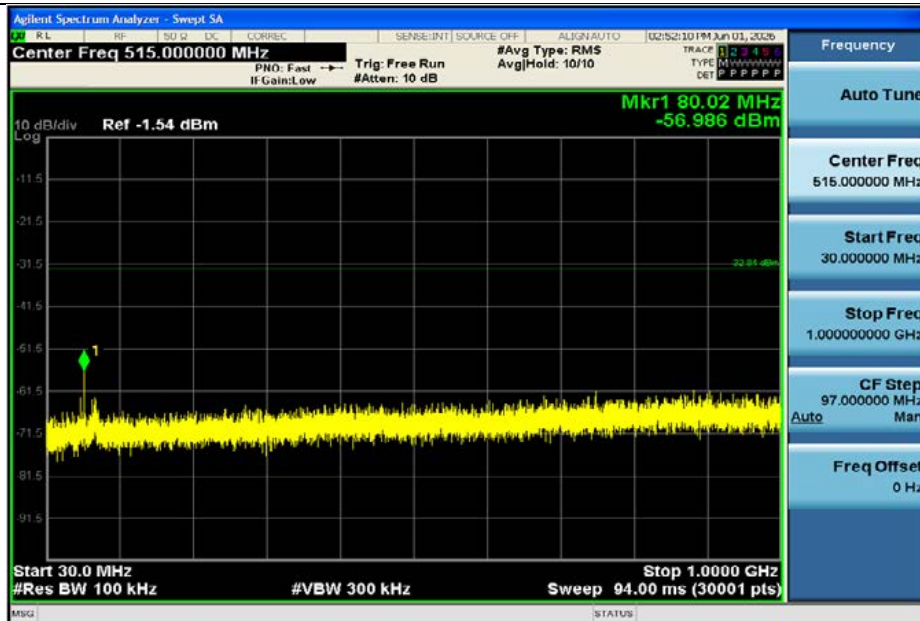
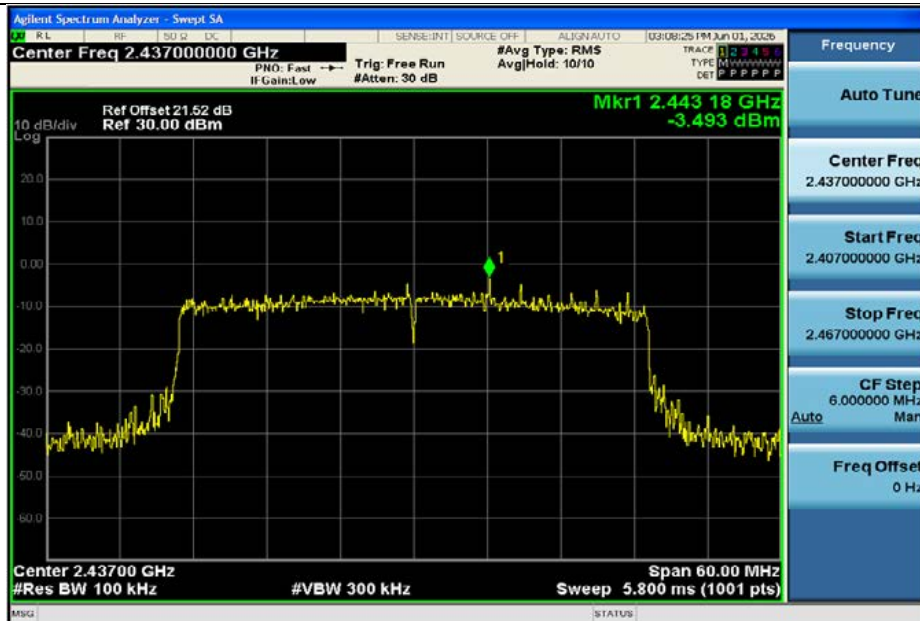




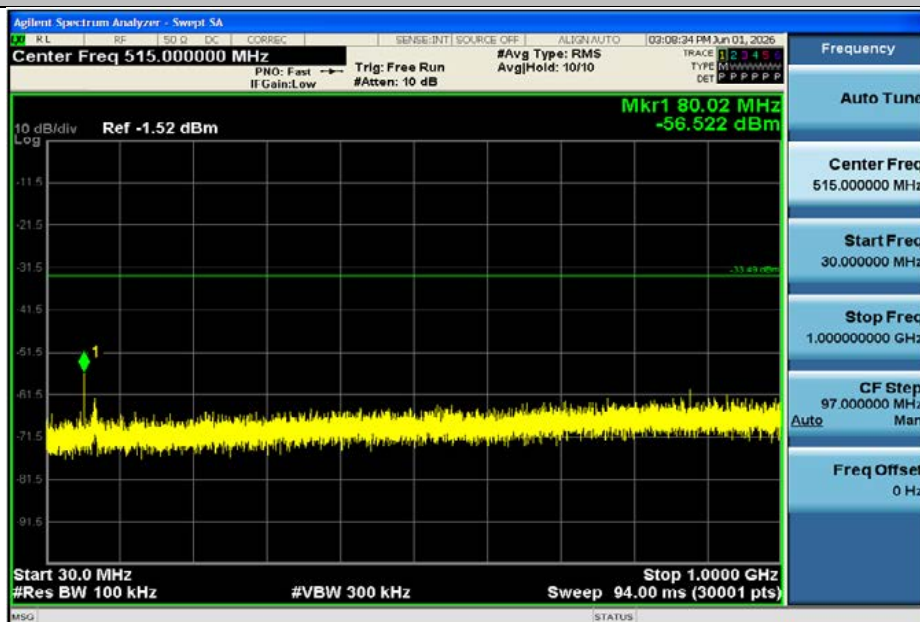
11AX40SISO-Ant1-2422-30~1000-PASS



11AX40SISO-Ant1-2422-1000~26500-PASS



11AX40SISO-Ant1-2437-0~Reference-PASS



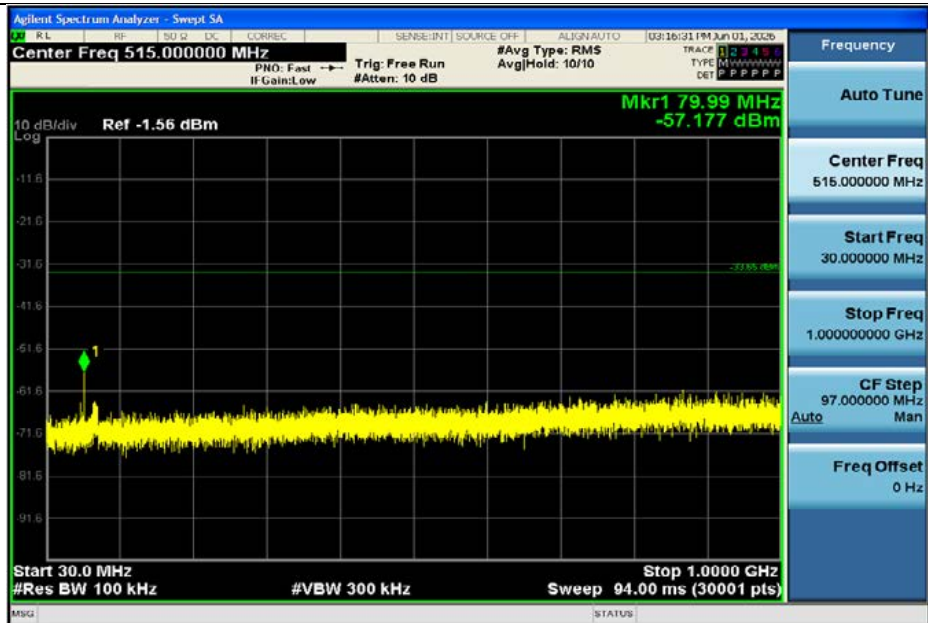
11AX40SISO-Ant1-2437-30~1000-PASS



11AX40SISO-Ant1-2437-1000~26500-PASS



11AX40SISO-Ant1-2452-0~Reference-PASS

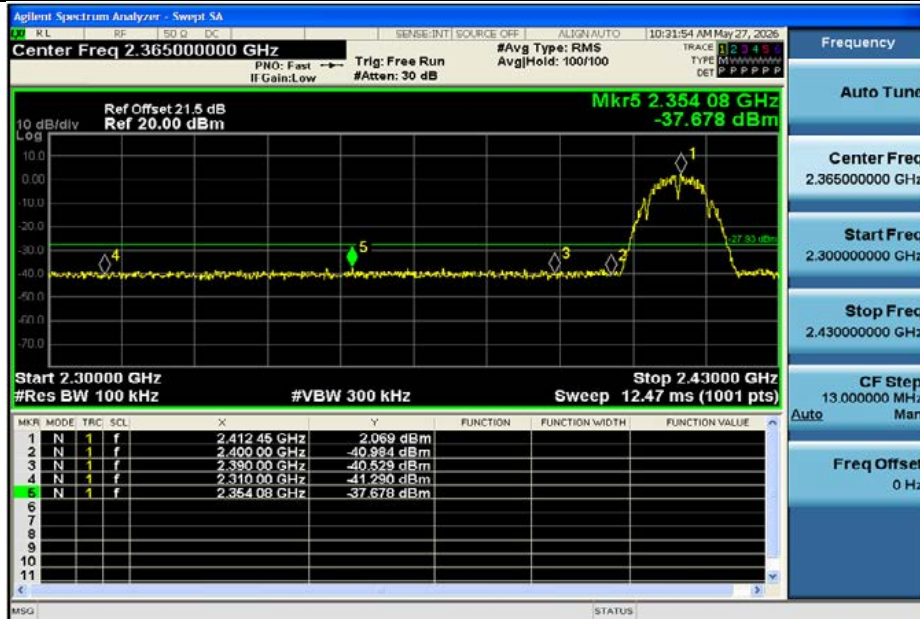


11AX40SISO-Ant1-2452-30~1000-PASS

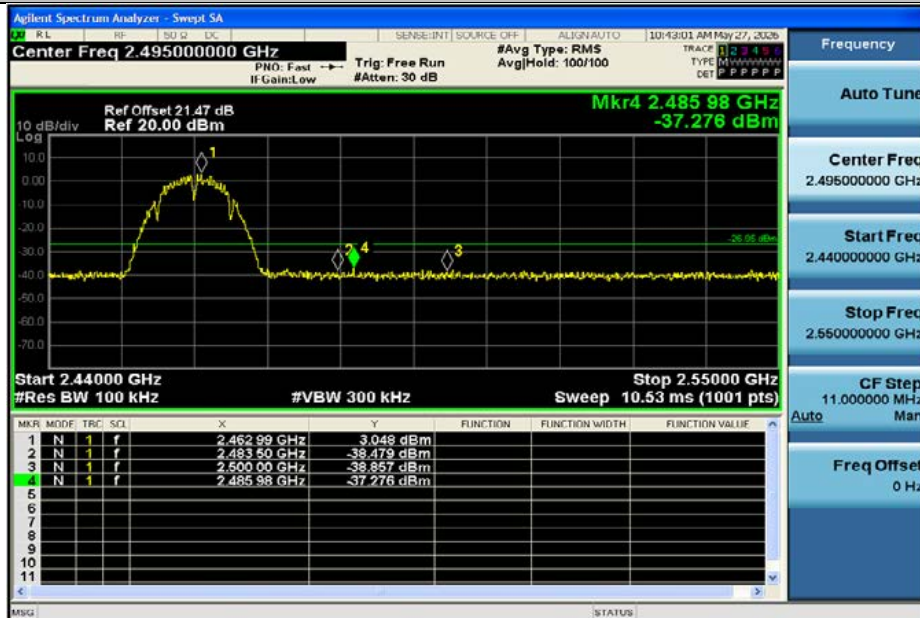


11AX40SISO-Ant1-2452-1000~26500-PASS

Band edge



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2452-PASS

3.4 6dB Bandwidth

3.4.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

3.4.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ☒ : Test ☐ : No Test	

a) The EUT was connected to the tonscend test system, and the spectrum analyser is set as follow:

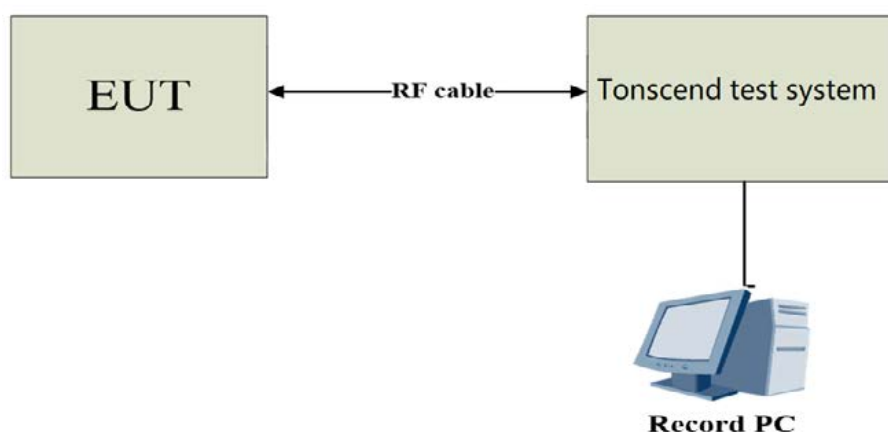
Centre Frequency	The centre frequency of the channel under test
RBW	1%~5% OBW but not less than 100 kHz.
VBW	≥ 3 RBW
Frequency span	2x Nominal Channel Bandwidth
Detector Mode	Peak
Trace Mode	Max Hold
Sweep Time	Auto Couple

b) Wait for the trace to stabilize then find the peak value of the trace and place the analyser marker on this peak.

c) Use the -6dB bandwidth function of the spectrum analyser to measure the 6dB Bandwidth of the EUT. This value shall be recorded.

d) Make sure that the power envelope is sufficiently above the noise floor of the analyser to avoid the noise signals left and right from the power envelope being taken into account by this measurement.

3.4.3 Test Setup



3.4.4 Test Result

DTS Bandwidth

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.120	2407.440	2416.560	0.5	PASS
11B	Ant1	2437	9.120	2432.440	2441.560	0.5	PASS
11B	Ant1	2462	9.120	2457.440	2466.560	0.5	PASS
11G	Ant1	2412	16.280	2403.840	2420.120	0.5	PASS
11G	Ant1	2437	16.320	2428.800	2445.120	0.5	PASS
11G	Ant1	2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.240	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.520	2428.240	2445.760	0.5	PASS
11N20SISO	Ant1	2462	17.440	2453.280	2470.720	0.5	PASS
11N40SISO	Ant1	2422	36.160	2403.840	2440.000	0.5	PASS
11N40SISO	Ant1	2437	36.000	2418.920	2454.920	0.5	PASS
11N40SISO	Ant1	2452	36.320	2433.680	2470.000	0.5	PASS
11AX20SISO	Ant1	2412	18.640	2402.760	2421.400	0.5	PASS
11AX20SISO	Ant1	2437	18.920	2427.480	2446.400	0.5	PASS
11AX20SISO	Ant1	2462	18.760	2452.560	2471.320	0.5	PASS
11AX40SISO	Ant1	2422	37.600	2403.280	2440.880	0.5	PASS
11AX40SISO	Ant1	2437	37.200	2418.360	2455.560	0.5	PASS
11AX40SISO	Ant1	2452	37.280	2433.120	2470.400	0.5	PASS

Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS



11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS



11AX40SISO-Ant1-2422-PASS



11AX40SISO-Ant1-2437-PASS

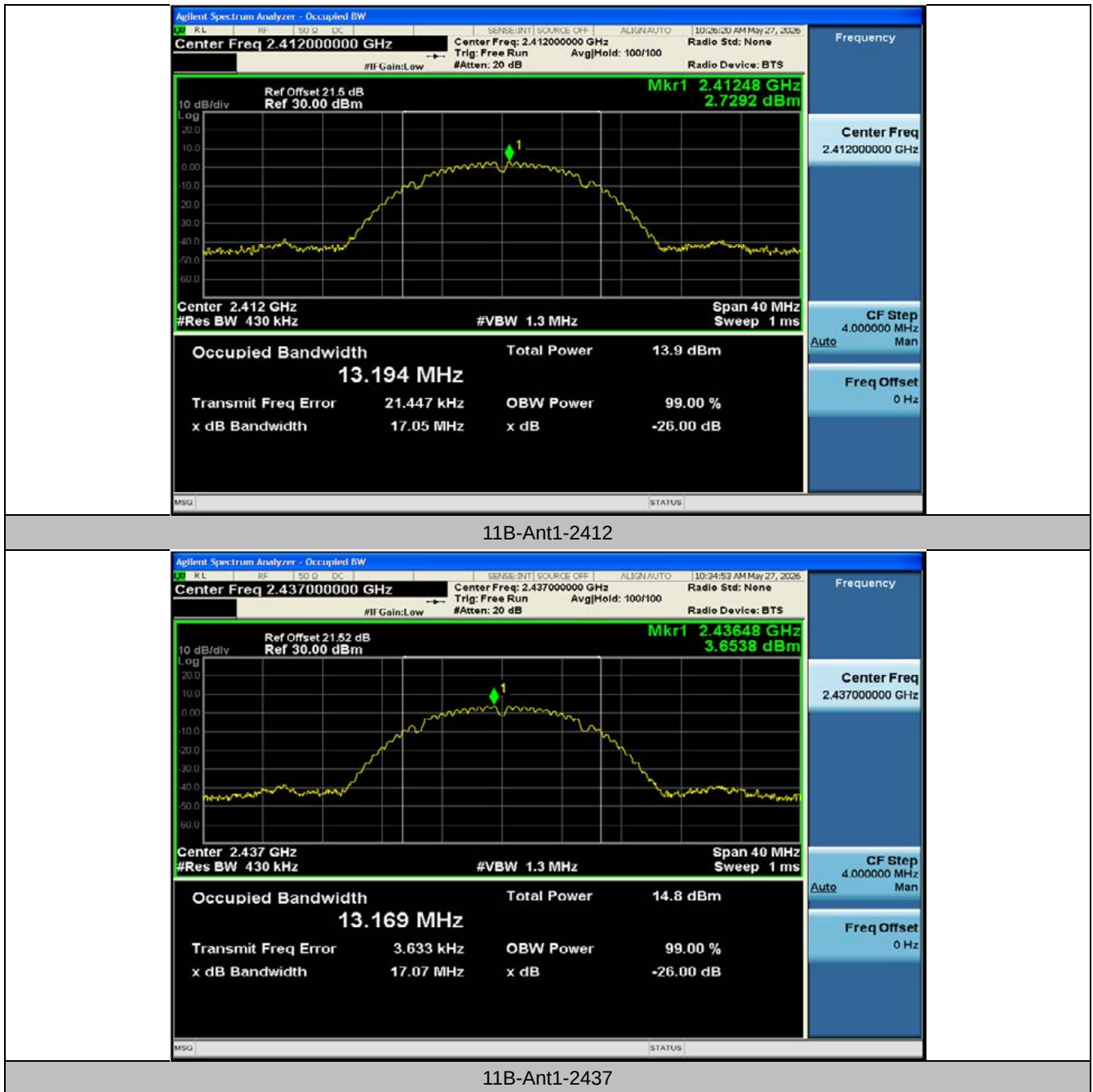


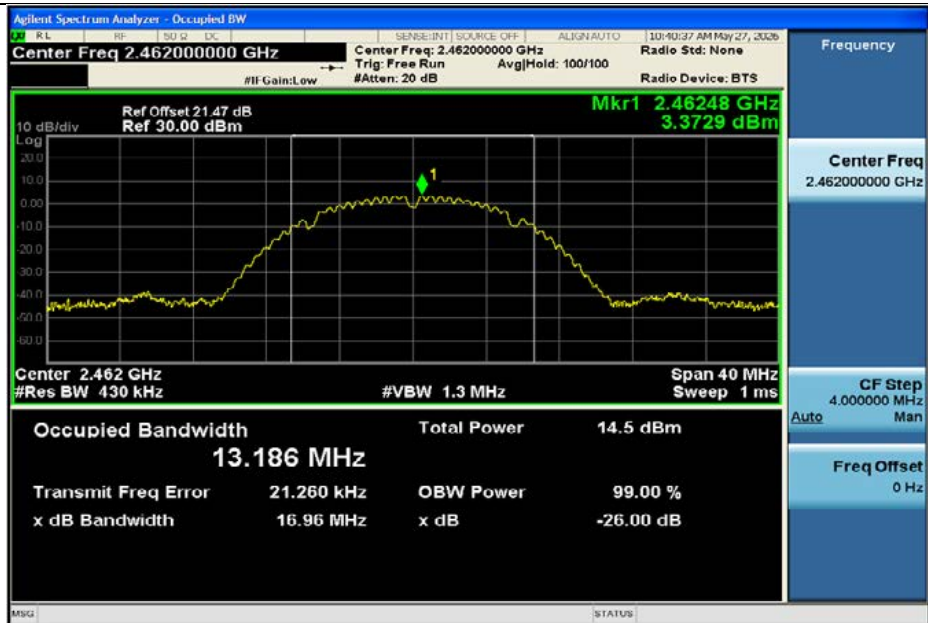
11AX40SISO-Ant1-2452-PASS

Occupied Channel Bandwidth

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.194	2405.4245	2418.6185	---	---
11B	Ant1	2437	13.169	2430.4191	2443.5881	---	---
11B	Ant1	2462	13.186	2455.4283	2468.6143	---	---
11G	Ant1	2412	17.340	2403.2585	2420.5985	---	---
11G	Ant1	2437	17.257	2428.3029	2445.5599	---	---
11G	Ant1	2462	17.260	2453.3117	2470.5717	---	---
11N20SISO	Ant1	2412	18.431	2402.7120	2421.1430	---	---
11N20SISO	Ant1	2437	18.281	2427.7711	2446.0521	---	---
11N20SISO	Ant1	2462	18.438	2452.7294	2471.1674	---	---
11N40SISO	Ant1	2422	36.700	2403.6063	2440.3063	---	---
11N40SISO	Ant1	2437	36.706	2418.5773	2455.2833	---	---
11N40SISO	Ant1	2452	36.762	2433.5395	2470.3015	---	---
11AX20SISO	Ant1	2412	19.212	2402.3844	2421.5964	---	---
11AX20SISO	Ant1	2437	19.203	2427.3409	2446.5439	---	---
11AX20SISO	Ant1	2462	19.222	2452.3573	2471.5793	---	---
11AX40SISO	Ant1	2422	37.884	2403.0407	2440.9247	---	---
11AX40SISO	Ant1	2437	37.936	2417.9856	2455.9216	---	---
11AX40SISO	Ant1	2452	37.996	2432.9495	2470.9455	---	---

Test Graphs





11B-Ant1-2462



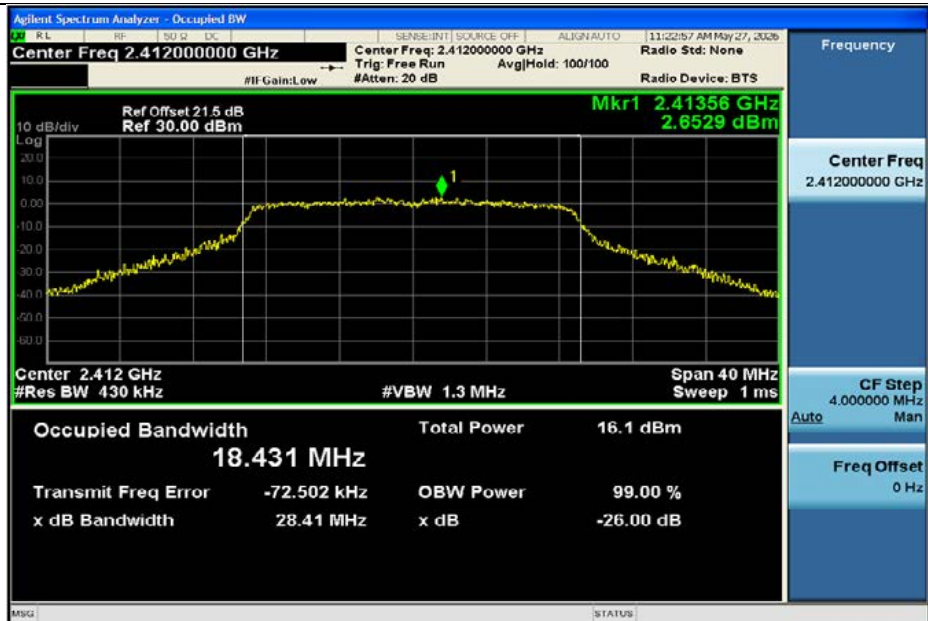
11G-Ant1-2412



11G-Ant1-2437



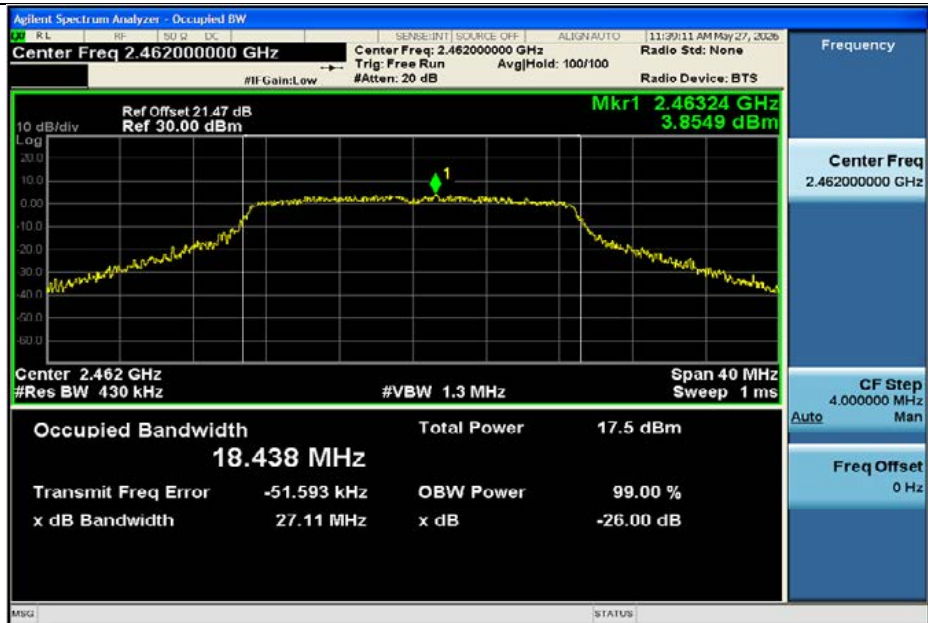
11G-Ant1-2462



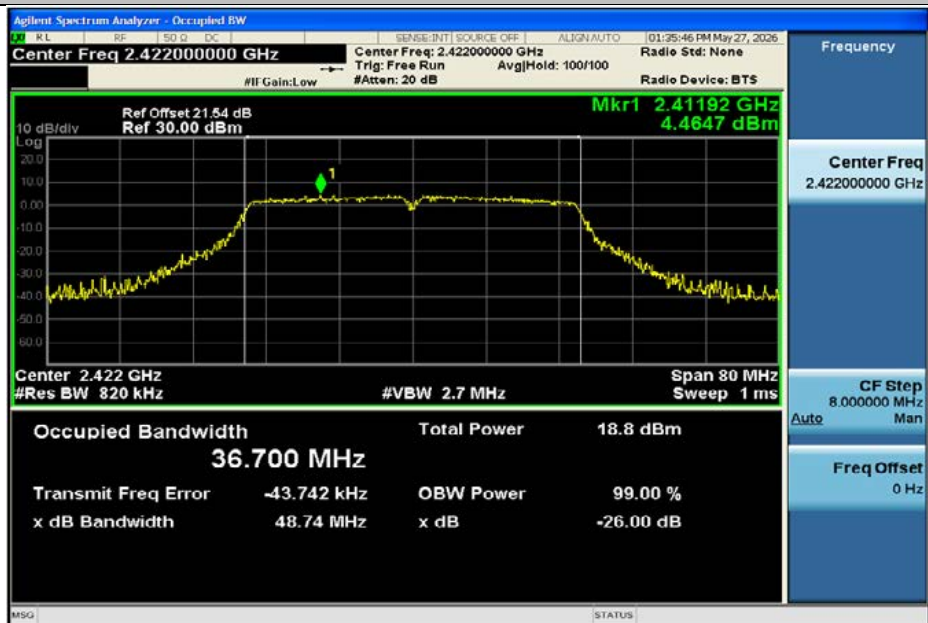
11N20SISO-Ant1-2412



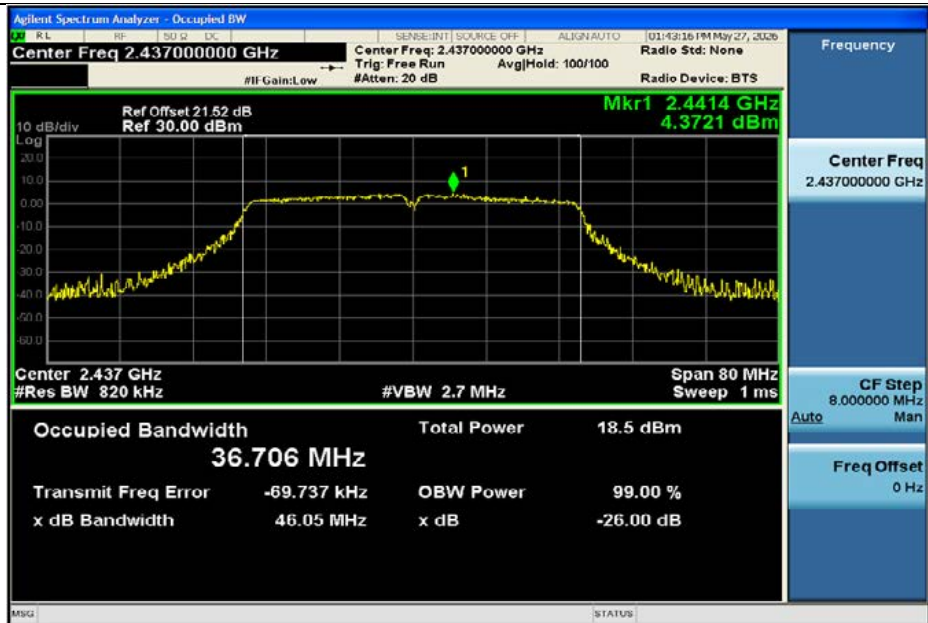
11N20SISO-Ant1-2437



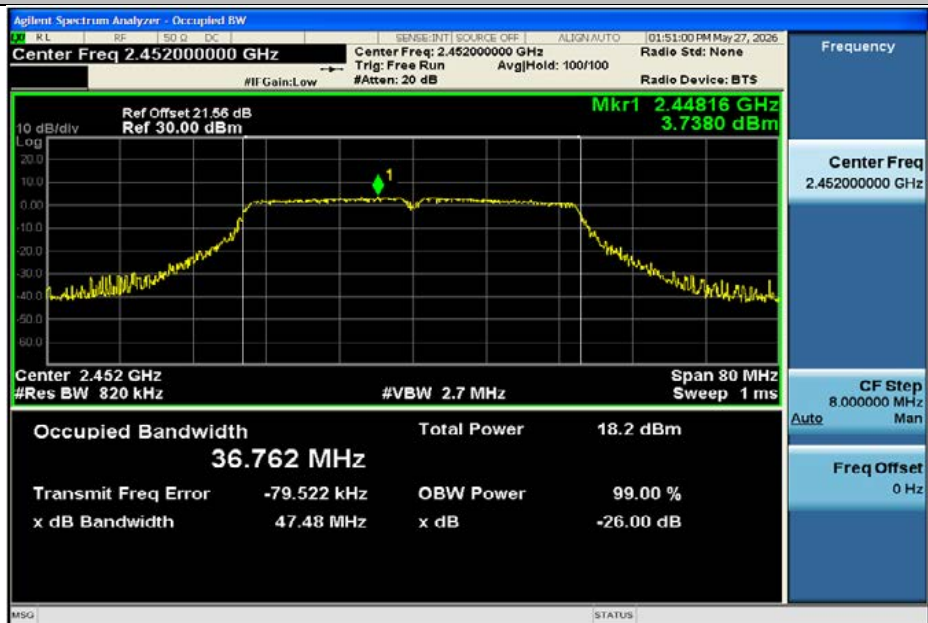
11N20SISO-Ant1-2462



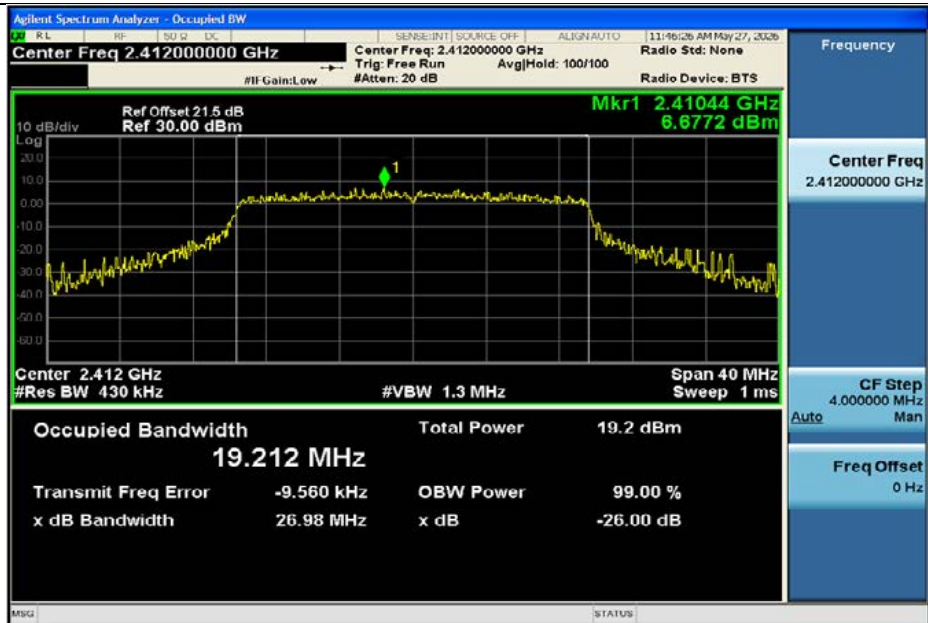
11N40SISO-Ant1-2422



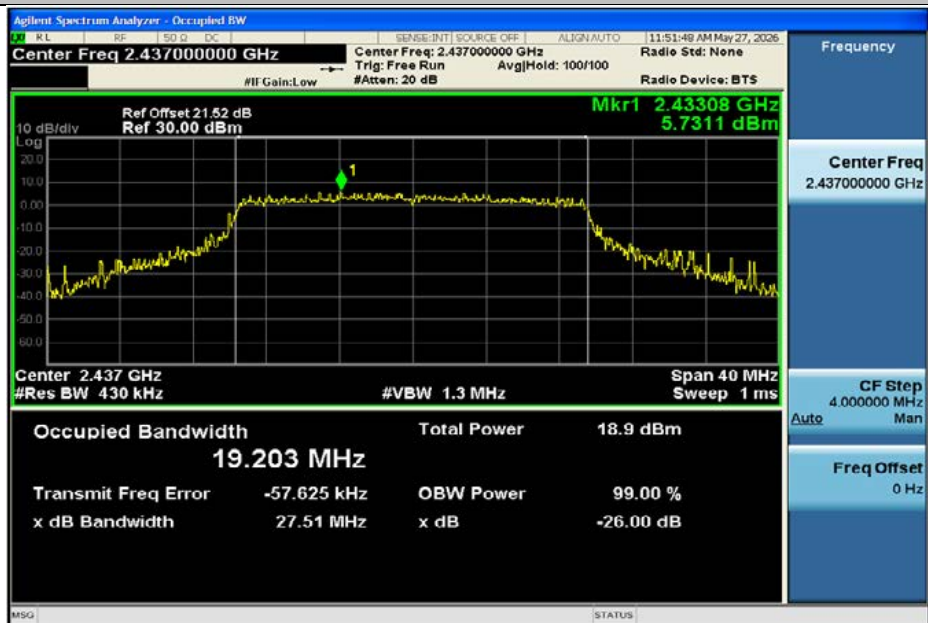
11N40SISO-Ant1-2437



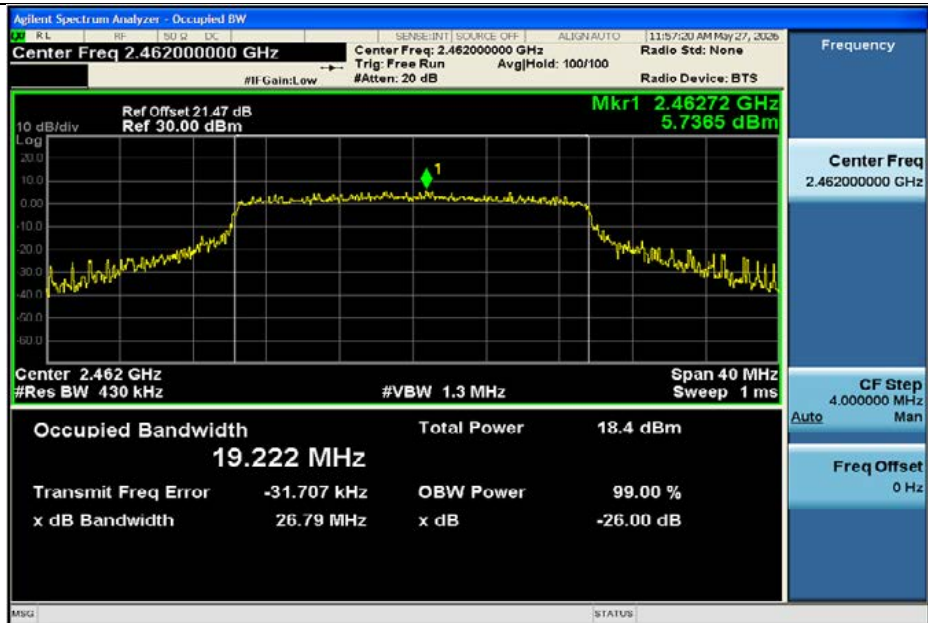
11N40SISO-Ant1-2452



11AX20SISO-Ant1-2412



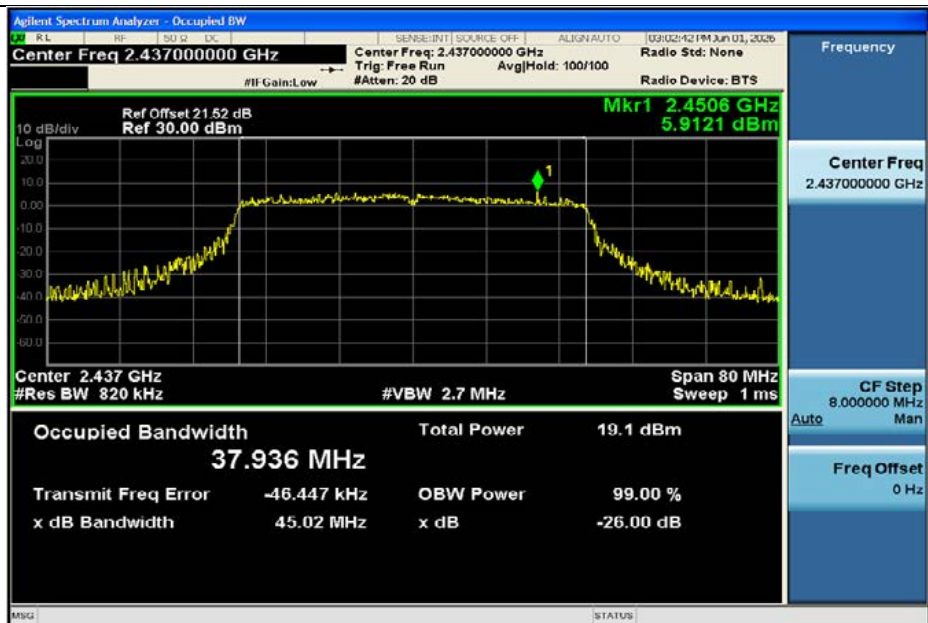
11AX20SISO-Ant1-2437



11AX20SISO-Ant1-2462



11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452

3.5 Maximum conducted output power

3.5.1 Limit

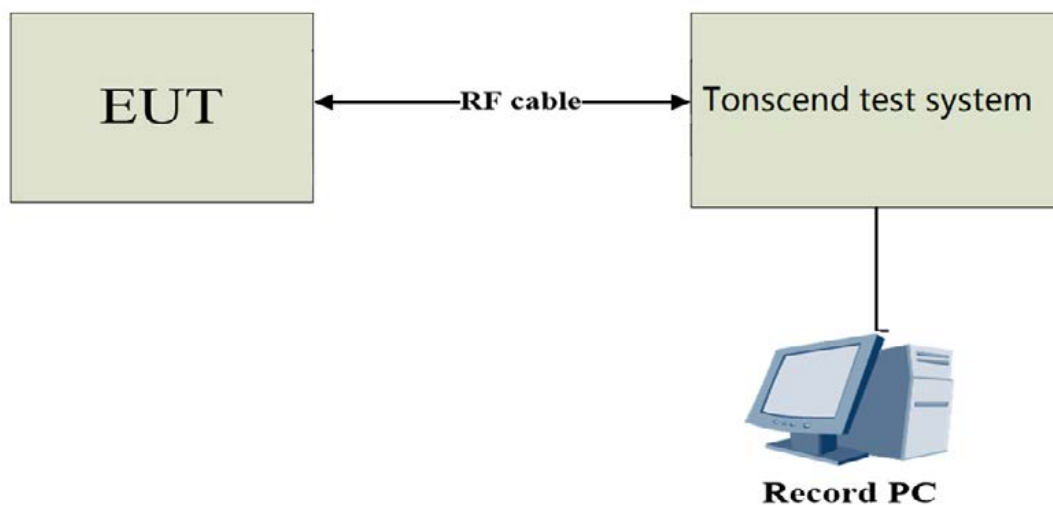
For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

3.5.2 Test Procedure

Test Method	
☒ Conducted Measurement	☐ Radiated Measurement
Test Channels	
☒ Lowest, Middle and Highest Channel	☐ Lowest and Highest Channel
Environmental conditions	
☒ Normal	☐ Normal and Extreme
Note: ● : Test ○ : No Test	

- The EUT was directly connected to the tonskend test system and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9. 2.3 (for average power) of ANSI C63.10-2020.

3.5.3 Test Setup



3.5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

For Power setting value

Test Mode	Power Level Setting defined by Manufacturer		
Test Software Version	adb.exe		
Frequency (MHz)	2412	2437	2462
IEEE 802.11b	Default	Default	Default
IEEE 802.11g	Default	Default	Default
IEEE 802.11n20	Default	Default	Default
IEEE 802.11n40	Default	Default	Default
Frequency (MHz)	2412	2437	2462
IEEE 802.11ax20	Default	Default	Default
IEEE 802.11ax40	Default	Default	Default

3.5.5 The Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	13.95	≤30.00	PASS
11B	Ant1	2437	14.84	≤30.00	PASS
11B	Ant1	2462	13.64	≤30.00	PASS
11G	Ant1	2412	14.09	≤30.00	PASS
11G	Ant1	2437	13.99	≤30.00	PASS
11G	Ant1	2462	13.44	≤30.00	PASS
11N20SISO	Ant1	2412	14.04	≤30.00	PASS
11N20SISO	Ant1	2437	14.02	≤30.00	PASS
11N20SISO	Ant1	2462	13.44	≤30.00	PASS
11N40SISO	Ant1	2422	14.20	≤30.00	PASS
11N40SISO	Ant1	2437	13.36	≤30.00	PASS
11N40SISO	Ant1	2452	13.37	≤30.00	PASS
11AX20SISO	Ant1	2412	14.30	≤30.00	PASS
11AX20SISO	Ant1	2437	14.14	≤30.00	PASS
11AX20SISO	Ant1	2462	13.48	≤30.00	PASS
11AX40SISO	Ant1	2422	13.97	≤30.00	PASS
11AX40SISO	Ant1	2437	13.70	≤30.00	PASS
11AX40SISO	Ant1	2452	13.75	≤30.00	PASS