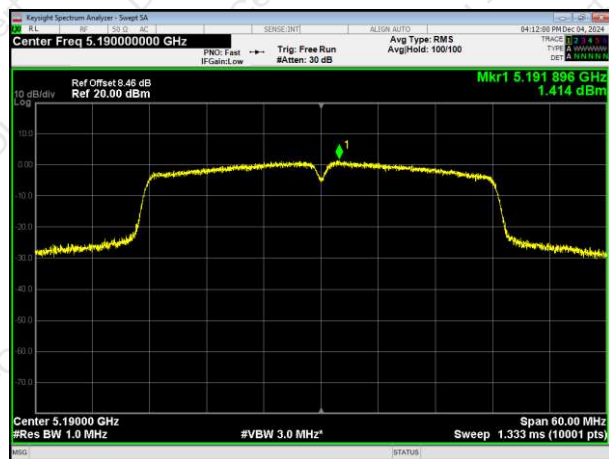




802.11n HT40



802.11ac HT80



5190MHz

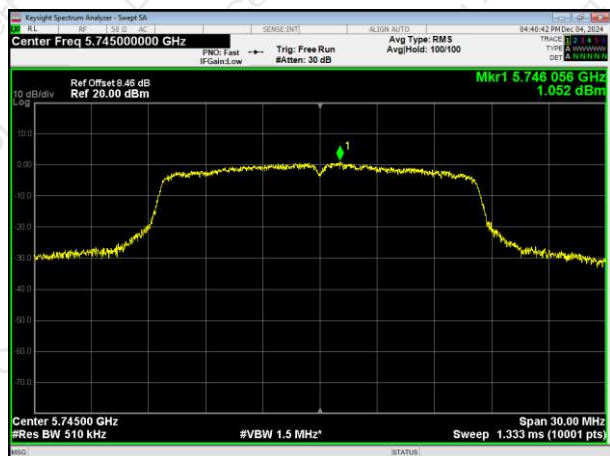


5210MHz

5230MHz



802.11a



802.11ac HT20



5745MHz



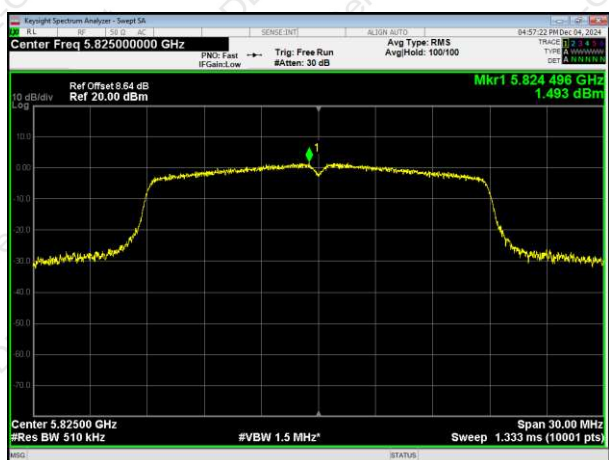
5745MHz



5785MHz



5785MHz

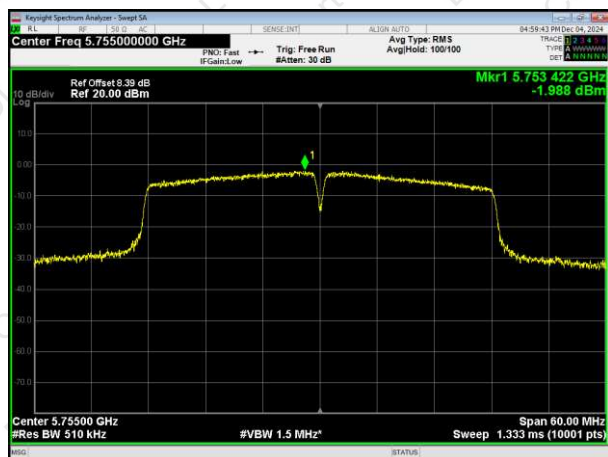


5825MHz

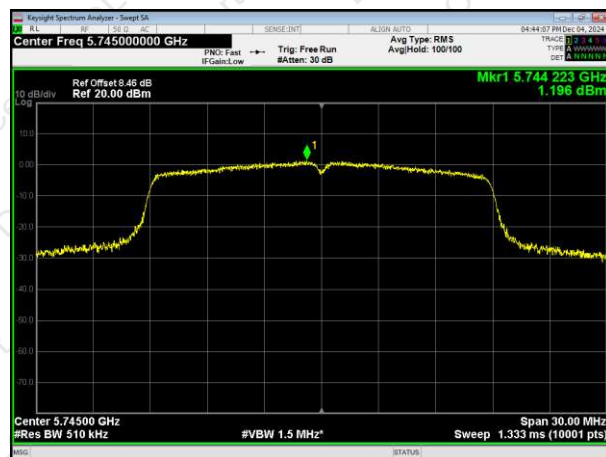
5825MHz



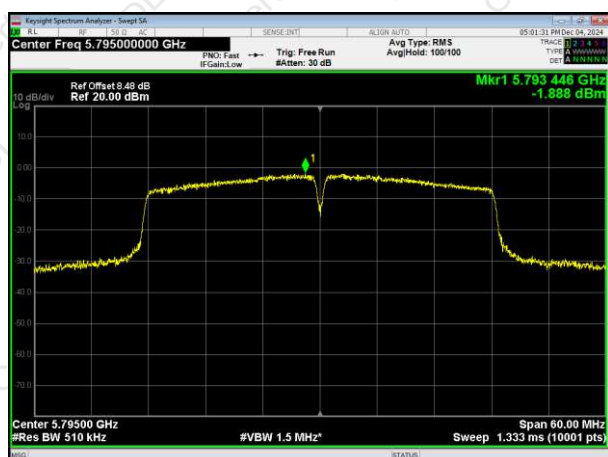
802.11ac HT40



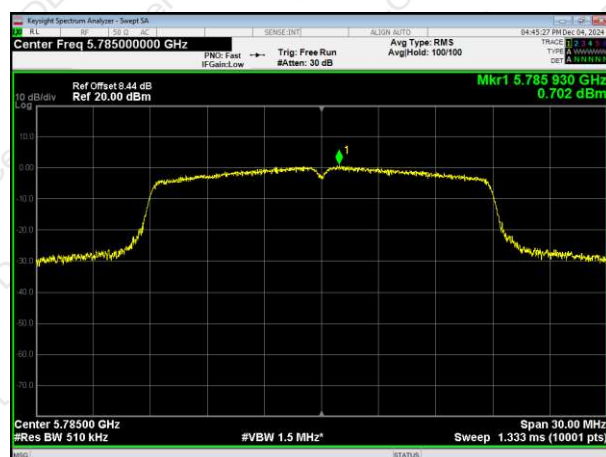
802.11n HT20



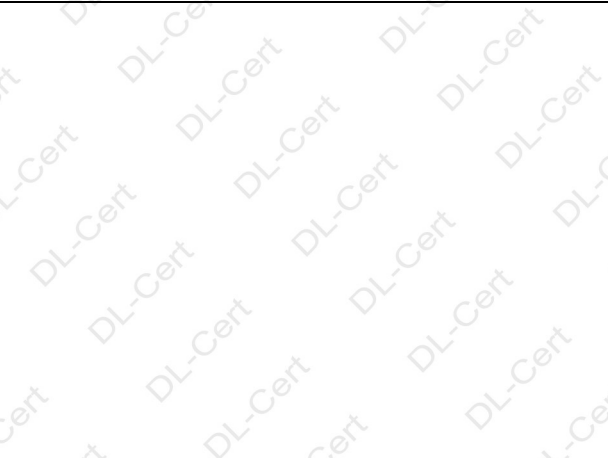
5755MHz



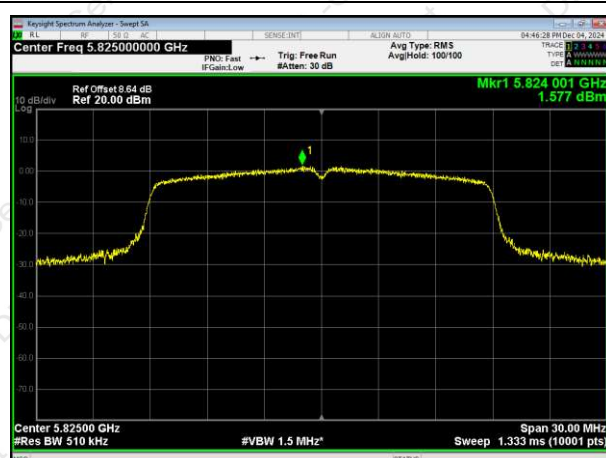
5745MHz



5795MHz



5785MHz



5825MHz



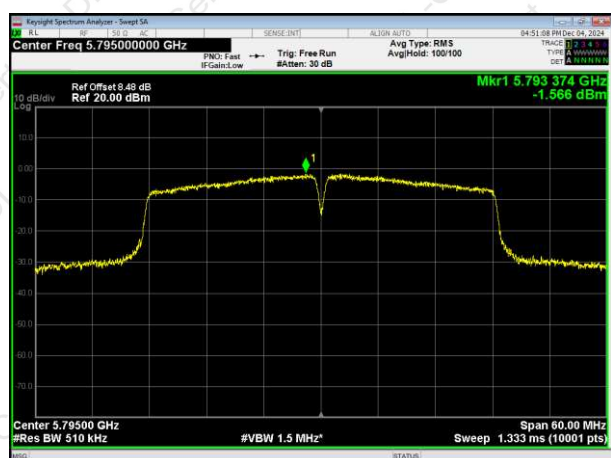
802.11n HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz



6. 6DB&26DB&99% BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

The 26 dB bandwidth is used to determine the conducted power limits.

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

6.1.1 TEST PROCEDURE

6dB Bandwidth	
Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	30MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	>RBW
Span	30MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	Approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP





6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

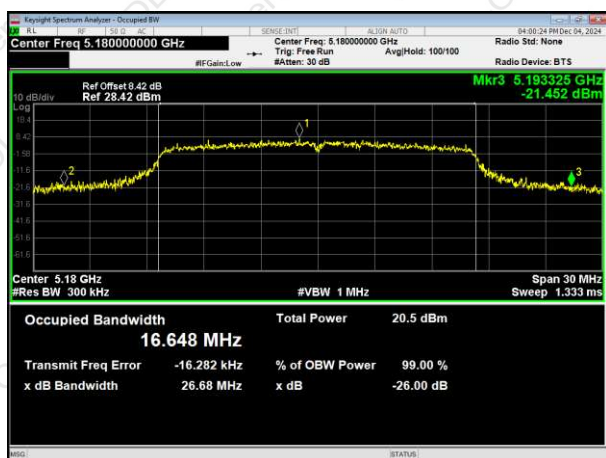
6.1.5 TEST RESULTS

		Test Channel	26dB Bandwidth (MHz)	Result
Band 1	802.11a	Low	26.682	Pass
		Middle	27.766	Pass
		High	27.422	Pass
	802.11ac HT20	Low	25.558	Pass
		Middle	26.995	Pass
		High	27.324	Pass
	802.11ac HT40	Low	58.92	Pass
		High	58.939	Pass
	802.11ac HT80	/	81.3	Pass
	802.11n HT20	Low	29.911	Pass
		Middle	29.519	Pass
		High	29.778	Pass
	802.11n HT40	Low	58.788	Pass
		High	59.902	Pass

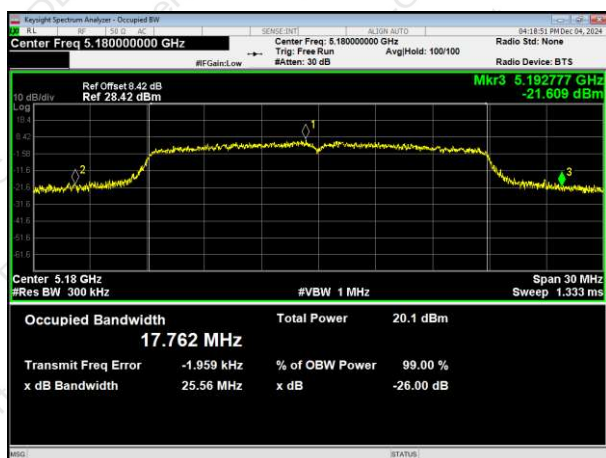
		Test Channel	6dB Bandwidth (MHz)	6dB Bandwidth Limit (MHz)	Result
Band 4	802.11a	Low	16.023	>0.5	Pass
		Middle	15.531	>0.5	Pass
		High	15.333	>0.5	Pass
	802.11ac HT20	Low	13.828	>0.5	Pass
		Middle	15.105	>0.5	Pass
		High	17.061	>0.5	Pass
	802.11ac HT40	Low	35.066	>0.5	Pass
		High	34.991	>0.5	Pass
	802.11ac HT80	/	75.122	>0.5	Pass
	802.11n HT20	Low	15.022	>0.5	Pass
		Middle	15.359	>0.5	Pass
		High	15.029	>0.5	Pass
	802.11n HT40	Low	33.811	>0.5	Pass
		High	32.562	>0.5	Pass



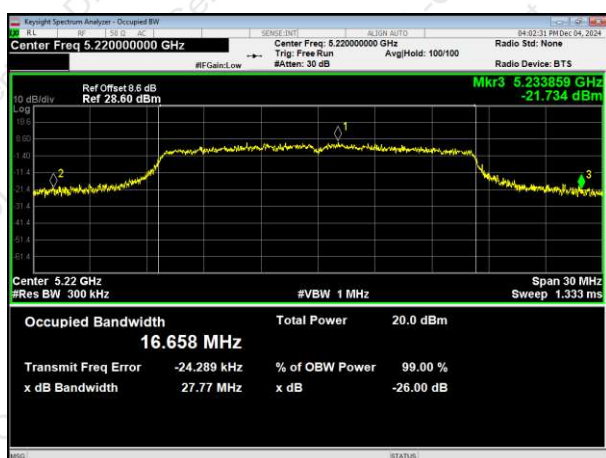
802.11a



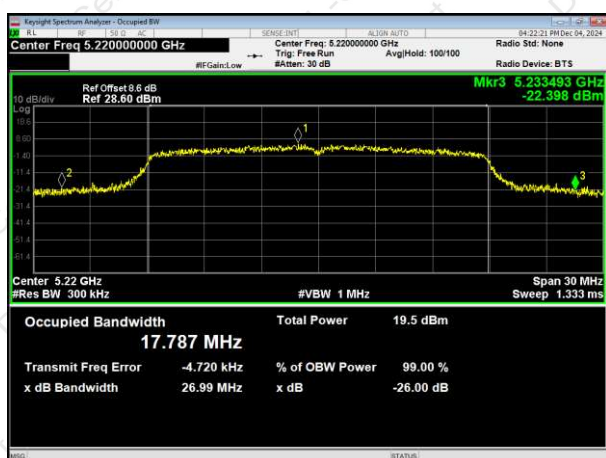
802.11ac HT20



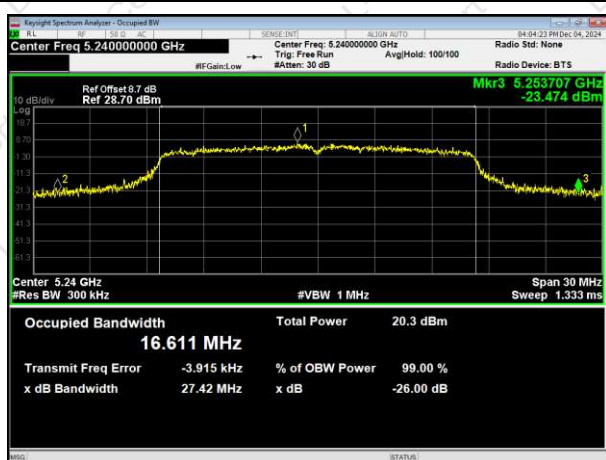
5180MHz



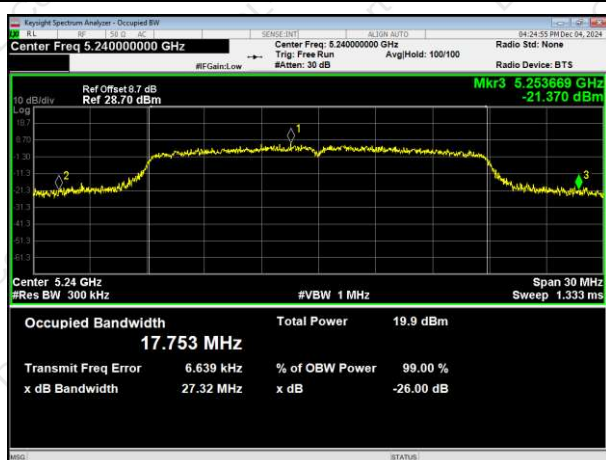
5180MHz



5200MHz



5200MHz



5240MHz

5240MHz



802.11ac HT40



802.11n HT20



5190MHz



5180MHz



5230MHz



5200MHz

5240MHz



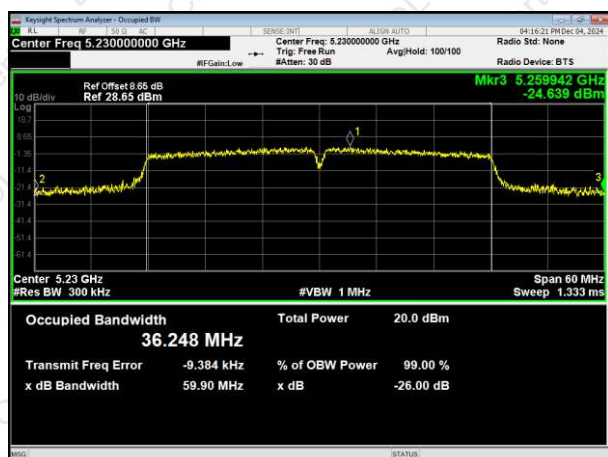
802.11n HT40



802.11ac HT80



5190MHz



5210MHz

5230MHz



802.11a



802.11ac HT20



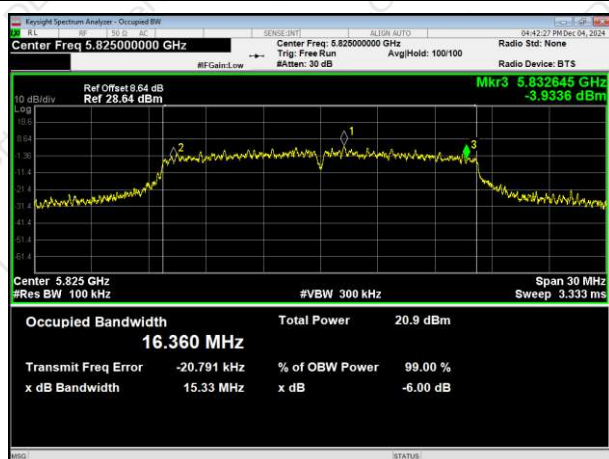
5745MHz



5745MHz



5785MHz



5785MHz



5825MHz

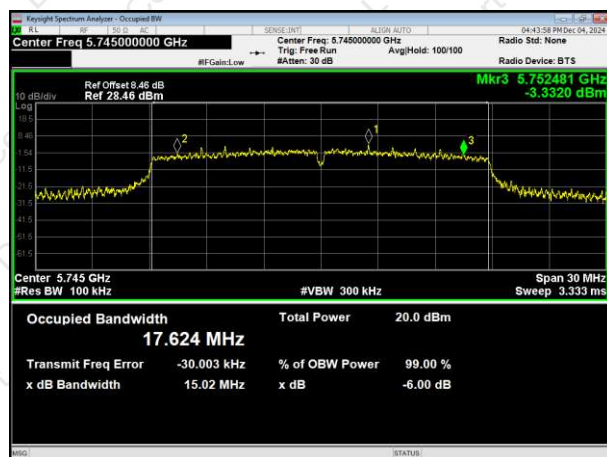
5825MHz



802.11ac HT40



802.11n HT20



5755MHz



5745MHz



5795MHz

5785MHz



5825MHz



802.11n HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz



7. DUTY CYCLE TEST SIGNAL

7.1 APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1.1 TEST PROCEDURE

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) $\geq$ RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



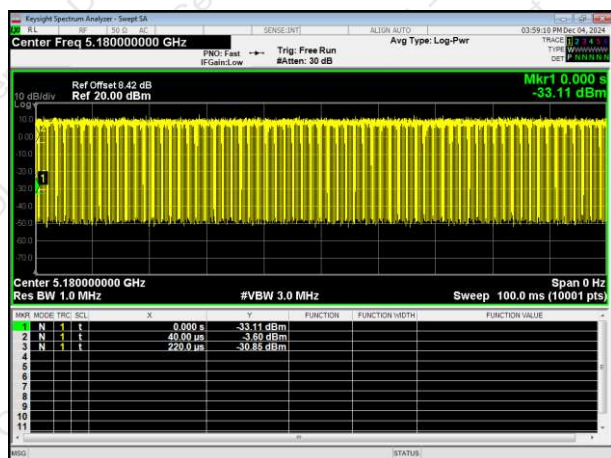
7.1.5 TEST RESULTS

		Test Channel	Duty Cycle(%)	Duty Fator (dB) 10 * log (1/ Duty cycle)
Band 1	802.11a	Low	81.82	0.87
		Middle	81.82	0.87
		High	81.82	0.87
	802.11ac HT20	Low	93.15	0.31
		Middle	94.44	0.25
		High	94.44	0.25
	802.11ac HT40	Low	94.2	0.26
		High	94.2	0.26
	802.11ac HT80	/	89.19	0.5
	802.11n HT20	Low	97.01	0.13
		Middle	97.04	0.13
		High	97.01	0.13
	802.11n HT40	Low	94.2	0.26
		High	92.86	0.32

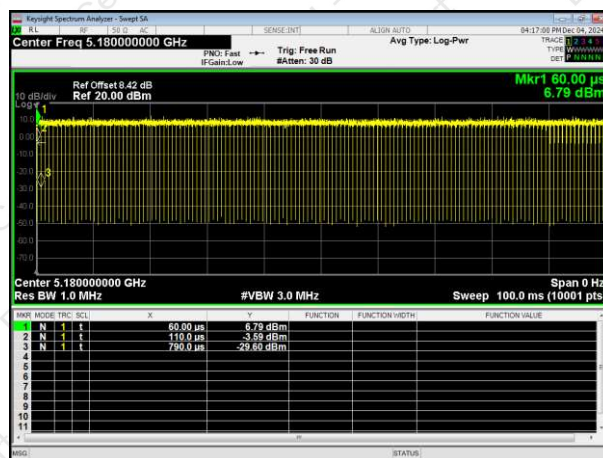
		Test Channel	Duty Cycle(%)	Duty Fator (dB) 10 * log (1/ Duty cycle)
Band 4	802.11a	Low	77.27	1.12
		Middle	81.82	0.87
		High	81.82	0.87
	802.11ac HT20	Low	97.06	0.13
		Middle	97.06	0.13
		High	97.04	0.13
	802.11ac HT40	Low	92.86	0.32
		High	94.2	0.26
	802.11ac HT80	/	89.19	0.5
	802.11n HT20	Low	97.01	0.13
		Middle	96.3	0.16
		High	96.3	0.16
	802.11n HT40	Low	94.2	0.26
		High	94.2	0.26



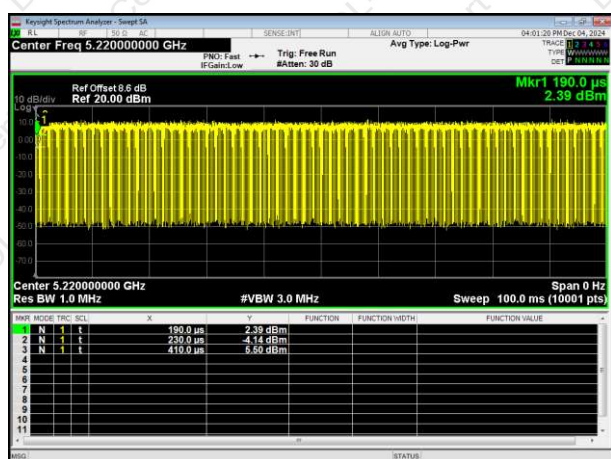
802.11a



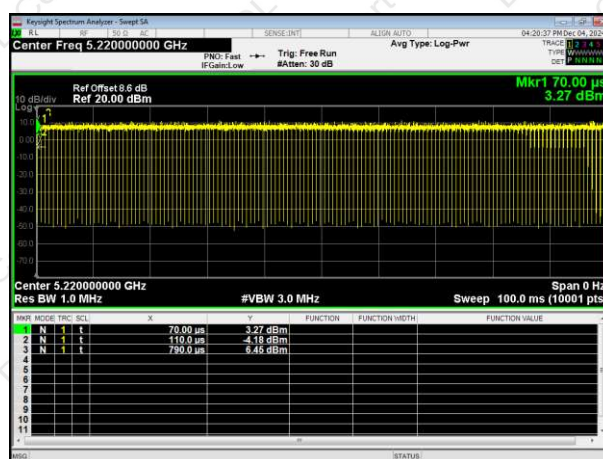
802.11ac HT20



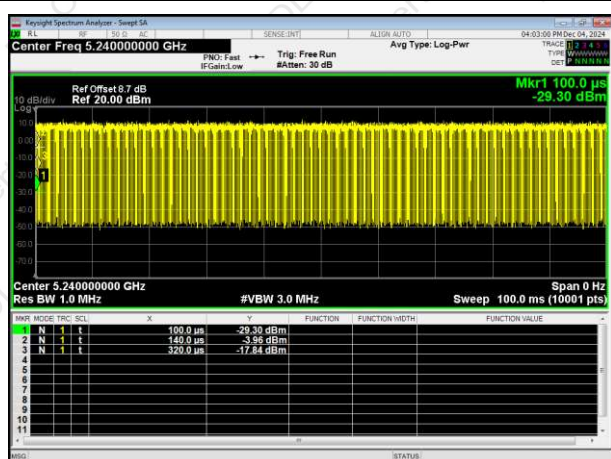
5180MHz



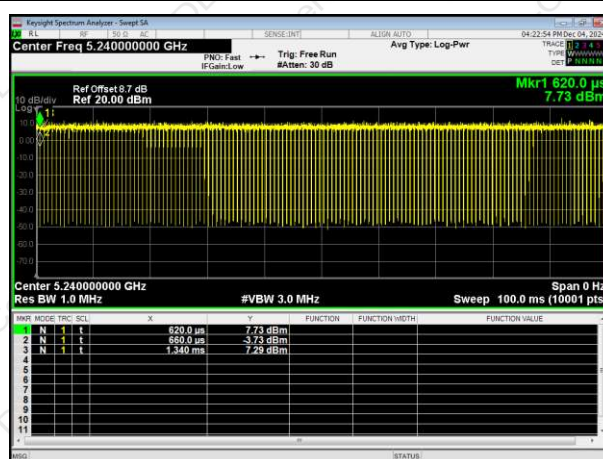
5180MHz



5200MHz



5200MHz

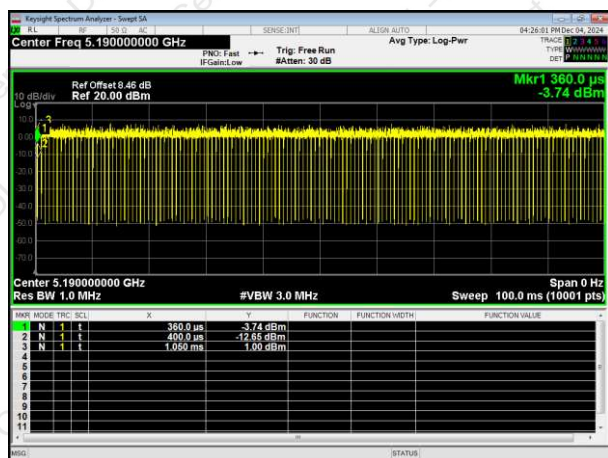


5240MHz

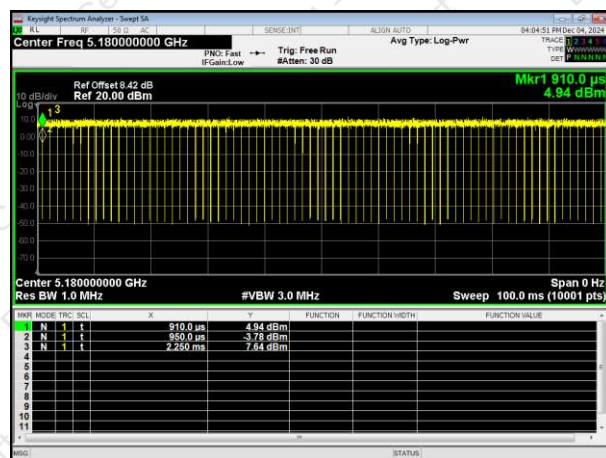
5240MHz



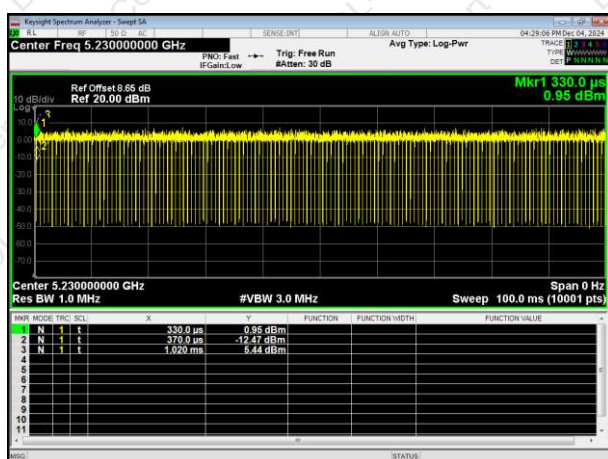
802.11ac HT40



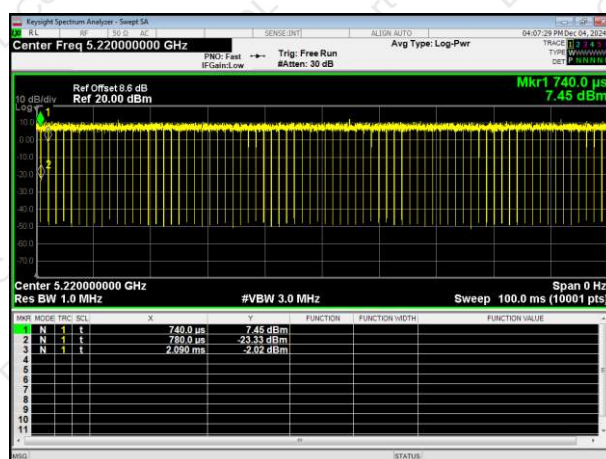
802.11n HT20



5190MHz

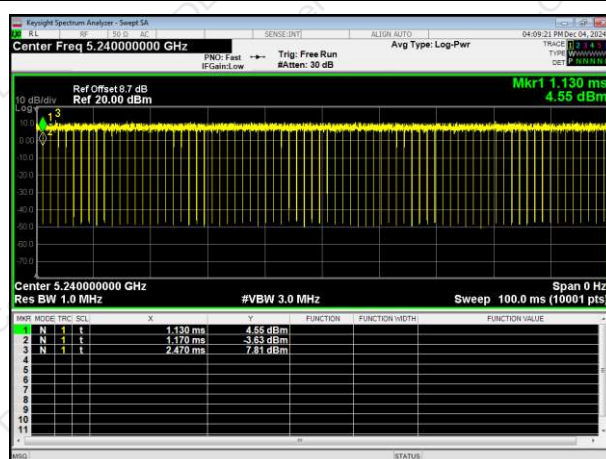


5180MHz



5230MHz

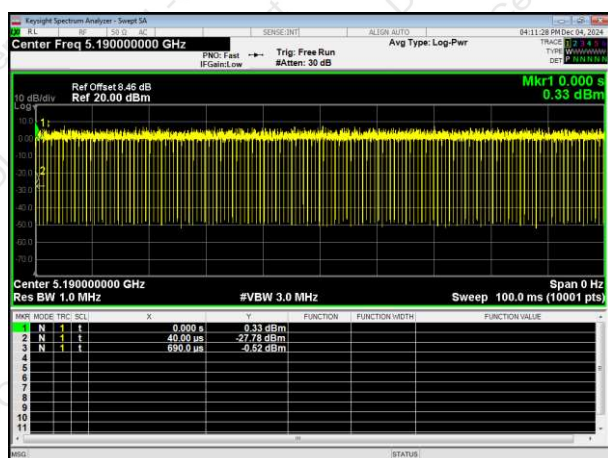
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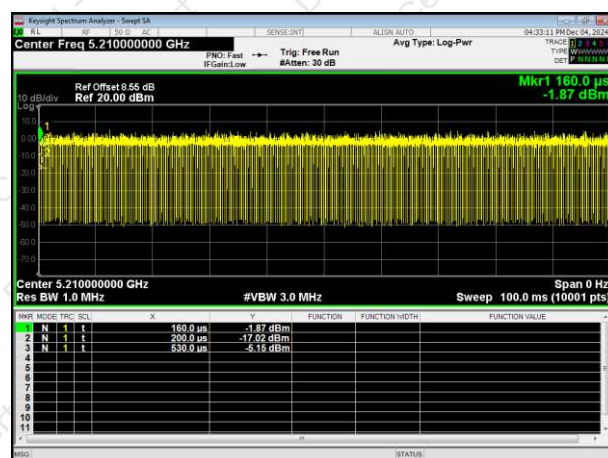
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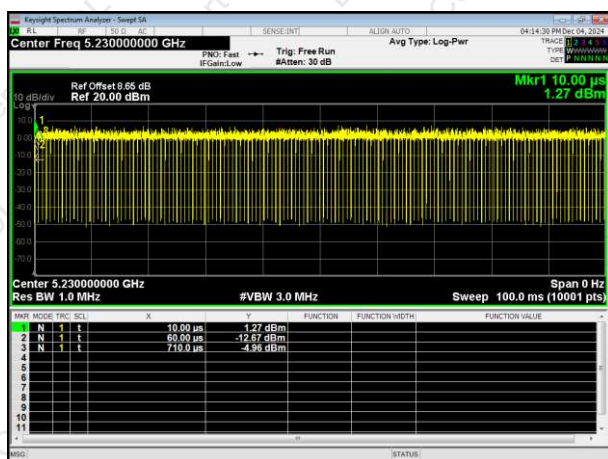
802.11n HT40



802.11ac HT80



5190MHz

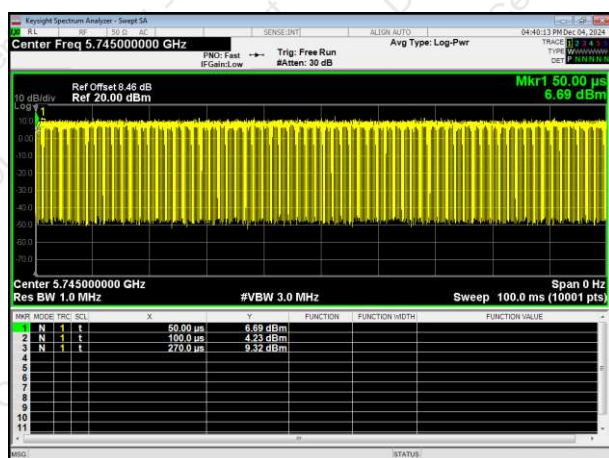


5210MHz

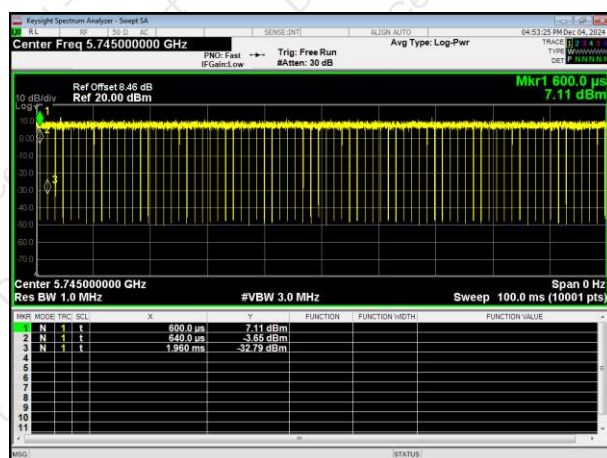
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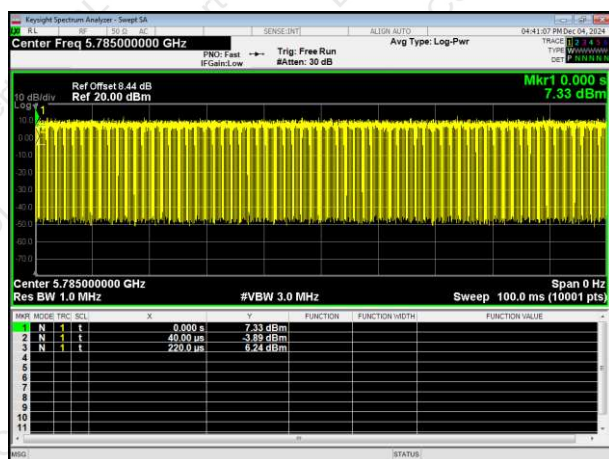
802.11a



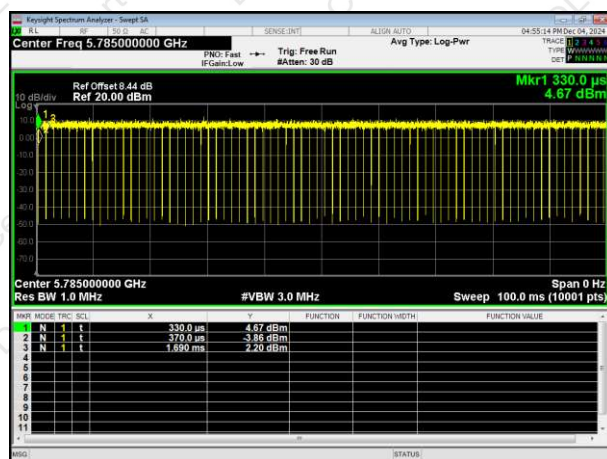
802.11ac HT20



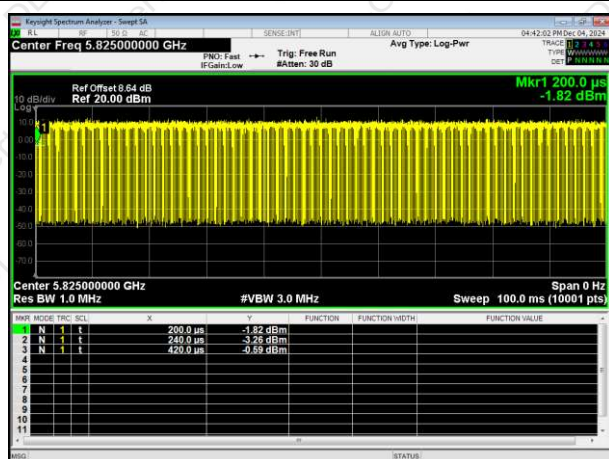
5745MHz



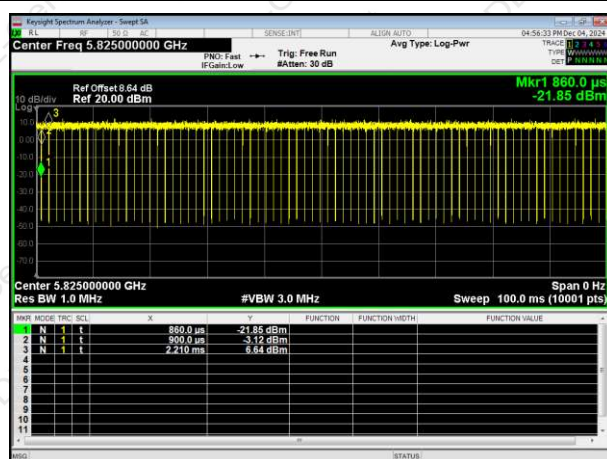
5745MHz



5785MHz



5785MHz

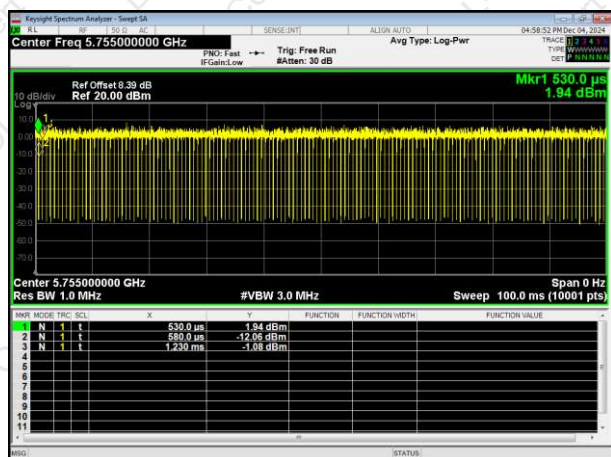


5825MHz

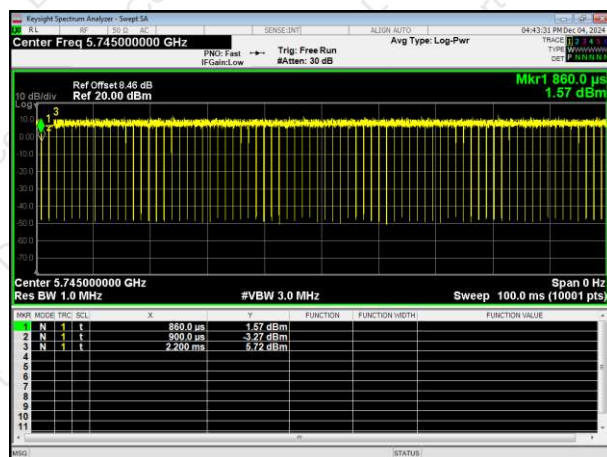
5825MHz



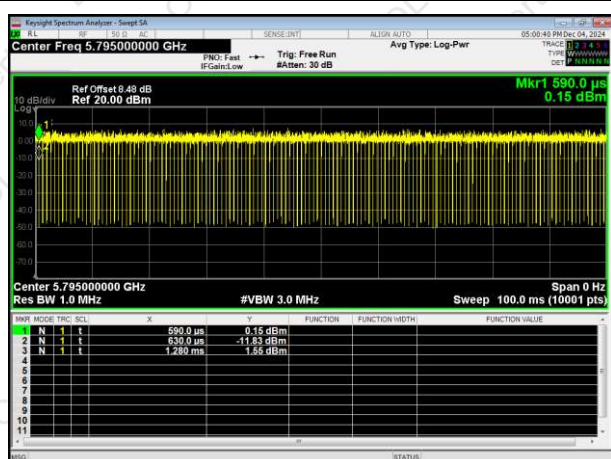
802.11ac HT40



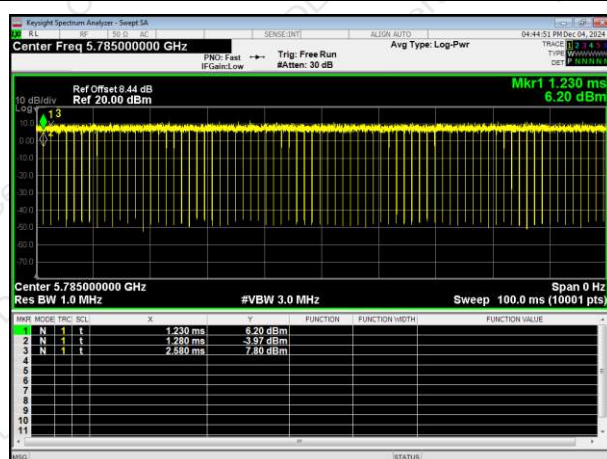
802.11n HT20



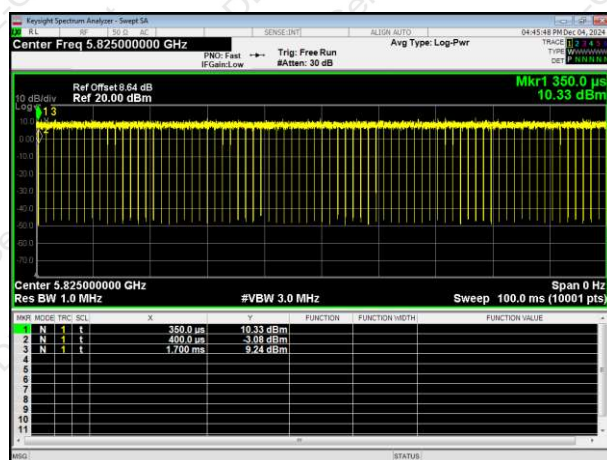
5755MHz



5745MHz



5795MHz

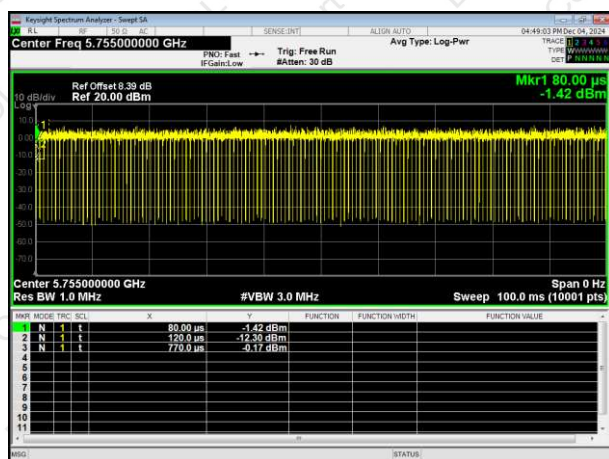


5785MHz

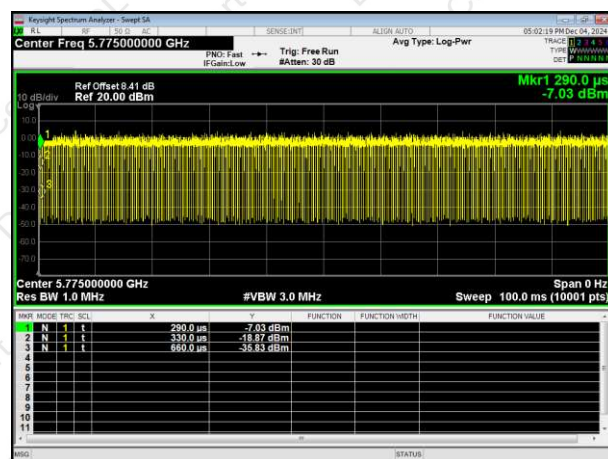
5825MHz



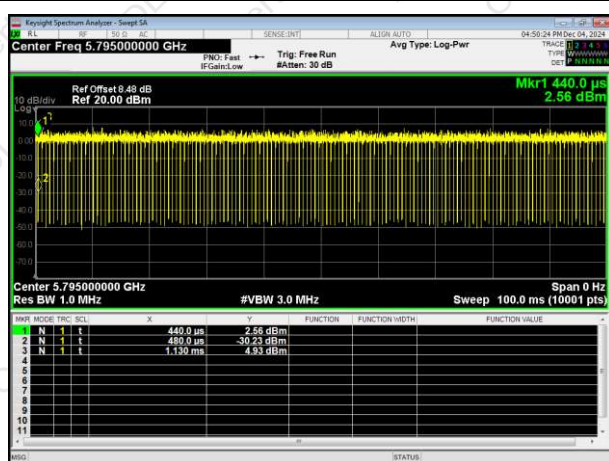
802.11n HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz