



Voltage vs. Frequency Stability

				Refe	Reference Frequency: 5280MHz			
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
Tnom	3	V nom (V)	120	5280.0493	5280	0.0493	9.3399	
T nom	20	V max (V)	132	5280.0753	5280	0.0753	14.2597	
(°C)	(C) V min (V) 108				5280	0.0814	15.4072	
	Limits				±20ppm			
	R	esult	b3	Complies				

Temperature vs. Frequency Stability

				Refer	ence Free	quency: 52	280MHz	
TI	EST CO	NDITIONS	6	f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	0	5280.0102	5280	0.0102	1.9375	
V nom		T (°C)	10	5280.0913	5280	0.0913	17.2833	
	120	T (°C)	20	5280.0113	5280	0.0113	2.1460	
(V)		T (°C)	30	5280.0053	5280	0.0053	1.0099	
		T (°C)	40	5280.0353	5280	0.0353	6.6890	
	Lin	nits	2	±20ppm				
	Result				Complies			

Voltage vs. Frequency Stability









Reference Frequency: 5320MHz Max. **TEST CONDITIONS** Max. Deviation f fc Deviation (ppm) (MHz) 120 5320.0074 5320 0.0074 1.3902 √ nom (V T nom 5320.0692 20 132 5320 0.0692 13.0112 max (V (°C) 5320.0525 5320 9.8712 V min (V 108 0.0525 Limits ±20ppm Result Complies

Temperature vs. Frequency Stability

emperature	vs. rrec	quency Stabi	lity					
				Refer	rence Fred	quency: 53	320MHz	
TI	EST CO	NDITIONS	6	f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
3		T (°C)	-20	5320.0871	5320	0.0871	16.3718	
		T (°C)	-10	5320.0132	5320	0.0132	2.4854	
		T (°C)	0	5320.0358	5320	0.0358	6.7376	
		T (°C)	10	5320.0328	5320	0.0328	6.1636	
V nom	120	T (°C)	20	5320.0585	5320	0.0585	10.9882	
(V)	120	T (°C)	30	5320.0206	5320	0.0206	3.8631	
		T (°C)	40	5320.0925	5320	0.0925	17.3939	
		T (°C)	50	5320.0386	5320	0.0386	7.2577	
	T (°C) 60				5320	0.0154	2.8998	
	T (°C) 70				5320	0.0777	14.6014	
	Limits				±20ppm			
2973	Re	sult			Co	mplies		

TX Frequency (5470-5725MHz)
Voltage vs. Frequency Stability

















				Reference Frequency: 5500MHz				
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
T nom	1467	V nom (V)	120	5500.0925	5500	0.0925	16.8215	
	20	V max (V)	132	5500.0322	5500	0.0322	5.8476	
(0)	(°C) V min (V) 108				5500	0.0242	4.3943	
	Limits				±20ppm			
Result				Complies				

Temperature vs. Frequency Stability

Temperature vs. Trequency Stability									
				Reference Frequency: 5500MHz					
TE	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
	C.D.	T (°C)	0	5500.0599	5500	0.0599	10.8865		
V nom		T (°C)	10	5500.0017	5500	0.0017	0.3150		
Sent Section of the sent of	120	T (°C)	20	5500.0533	5500	0.0533	9.6903		
(V)		T (°C)	30	5500.0900	5500	0.0900	16.3721		
	T (°C) 40				5500	0.0809	14.7088		
	Limits			±20ppm					
	Result				Complies				











Voltage vs. Frequency Stability

				Reference Frequency: 5580MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
Tnom	1	V nom (V)	120	5580.0246	5580	0.0246	4.4116	
T nom (°C)	20	V max (V)	132	5580.0228	5580	0.0228	4.0831	
(0)	V min (V) 108				5580	0.0864	15.4920	
0	Limits				±20ppm			
Result				Complies				

Temperature vs. Frequency Stability

Temperature	e vs. ried	quency Stabil	11 ty					
				Reference Frequency: 5580MHz				
Т	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
	ED.	T (°C)	0	5580.0685	5580	0.0685	12.2683	
V nom		T (°C)	10	5580.0883	5580	0.0883	15.8200	
	120	T (°C)	20	5580.0545	5580	0.0545	9.7727	
(V)		T (°C)	30	5580.0448	5580	0.0448	8.0337	
		T (°C)	40	5580.0405	5580	0.0405	7.2586	
	Lir	nits		±20ppm				
	Re	sult	22	Complies			_	

Voltage vs. Frequency Stability

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Reference Frequency: 5700MHz Max. **TEST CONDITIONS** Max. Deviation f fc Deviation (ppm) (MHz) 120 5700.0824 5700 14.4484 √ nom (V 0.0824 T nom 5700.0719 20 132 5700 0.0719 12.6060 V max (V (°C) 5700.0171 5700 3.0079 V min (V 108 0.0171 Limits ±20ppm Result Complies

Temperature vs. Frequency Stability

emperature vs. frequency stability									
				Refer	ence Fred	quency: 5	700MHz		
TE	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
7	200	T (°C)	0	5700.0857	5700	0.0857	15.0267		
\/ nom		T (°C)	10	5700.0023	5700	0.0023	0.4098		
V nom	120	T (°C)	20	5700.0108	5700	0.0108	1.9034		
(V)		T (°C)	30	5700.0018	5700	0.0018	0.3155		
	T (°C) 40				5700	0.0096	1.6814		
	Limits			±20ppm					
P	Result				Complies				











TX Frequency (5725-5850MHz) Voltage vs. Frequency Stability

				Reference Frequency: 5745MHz			
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
Tnom		V nom (V)	120	5745.0188	5745	0.0188	3.2781
T nom	20	V max (V)	132	5745.0849	5745	0.0849	14.7736
(°C)	V min (V) 108				5745	0.0543	9.4551
	Limits				±	20ppm	
Result			Complies				

Temperature vs. Frequency Stability

/				Refer	ence Free	quency: 5	745MHz
TI	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	0	5745.0123	5745	0.0123	2.1370
V nom		T (°C)	10	5745.0905	5745	0.0905	15.7551
Serie Septimination	120	T (°C)	20	5745.0166	5745	0.0166	2.8868
(V)		T (°C)	30	5745.0087	5745	0.0087	1.5147
		T (°C)	40	5745.0834	5745	0.0834	14.5164
	Lir	nits	7	±20ppm			
	Result				Co	mplies	











Voltage vs. Frequency Stability

				Reference Frequency: 5785MHz				
TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)		
T nom	1	V nom (V)	120	5785.0876	5785	0.0876	15.1416	
	20	V max (V)	132	5785.0442	5785	0.0442	7.6373	
(°C)	V min (V) 108				5785	0.0760	13.1307	
0	Limits				±20ppm			
Result				Complies				

Temperature vs. Frequency Stability

		quency Stabi.	2209	Refer	ence Free	quency: 5	785MHz	
TEST CONDITIONS				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)	
		T (°C)	0	5785.0609	5785	0.0609	10.5269	
		T (°C) 10		5785.0464	5785	0.0464	8.0157	
V nom	120	T (°C)	20	5785.0897	5785	0.0897	15.5071	
(V)	120	T (°C)	30	5785.0810	5785	0.0810	14.0004	
		T (°C)	40	5785.0642	5785	0.0642	11.1037	
		T (°C)	50	5785.0904	5785	0.0904	15.6217	
	Limits			±20ppm				
	Result				Complies			

Voltage vs. Frequency Stability













Reference Frequency: 5825MHz Max. **TEST CONDITIONS** Max. Deviation f fc Deviation (ppm) (MHz) 120 5825.0765 5825 0.0765 13.1285 √ nom (V T nom 5825.0761 20 132 5825 0.0761 13.0655 max (V (°C) 5825.0920 5825 0.0920 15.7993 V min (V 108 Limits ±20ppm Result Complies

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5825.0666	5825	0.0666	11.4263
		T (°C)	10	5825.0024	5825	0.0024	0.4107
		T (°C)	20	5825.0127	5825	0.0127	2.1749
		T (°C)	30	5825.0760	5825	0.0760	13.0461
		T (°C)	40	5825.0496	5825	0.0496	8.5145
Limits			±20ppm				
Result				Complies			











13. OPERATION IN THE ABSENCE OF INFORMATION TO THE TRANSMIT

13.1 Requirement

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

13.2 Test Results

Operation in the absence of information to the transmit:

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)

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14. DUTY CYCLE

14.1 Applied procedures / limit

Measurements of duty cycle and transmission duration shall be performed using one of the following techniques:

- A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
- b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
 - Set the center frequency of the instrument to the center frequency of the transmission.
 - Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
 - 3) Set VBW ≥ RBW. Set detector = peak or average.
 - 4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T ≤ 16.7 μs.)

14.2 DEVIATION FROM STANDARD

No deviation.

14.3 TEST SETUP

EUT	SPECTRUM
SACRESCON ESSA N	ANALYZER

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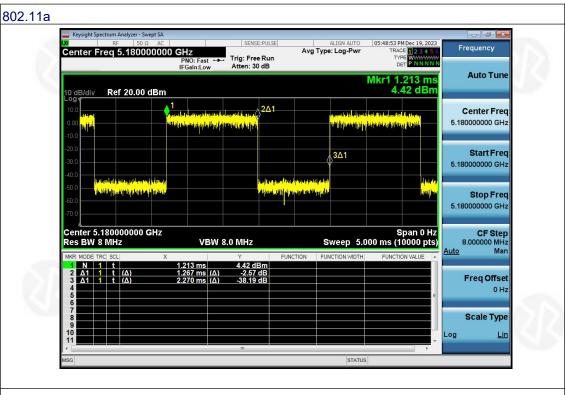




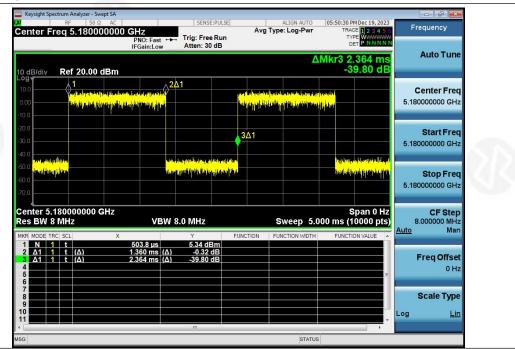


5.2G						
Mode	Frequency (MHz)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Result		
802.11a	5180	55.81	2.53	Pass		
802.11n20	5180	57.53	2.40	Pass		
802.11n40	5190	38.52	4.14	Pass		
802.11ac20	5180	55.92	2.52	Pass		
802.11ac40	5190	38.78	4.11	Pass		
802.11ac80	5210	23.92	6.21	Pass		





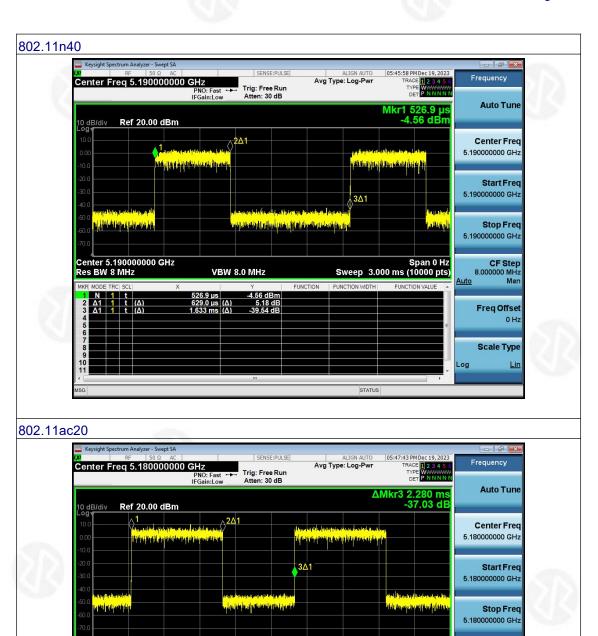




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VBW 8.0 MHz

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+86-755-2233 6688

Center 5.180000000 GHz Res BW 8 MHz

Span 0 Hz Sweep 5.000 ms (10000 pts)

STATUS

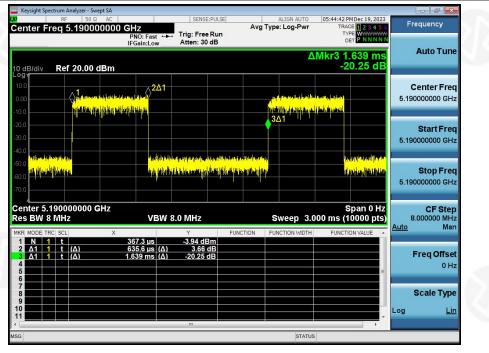
CF Step 8.000000 MHz

Freq Offset 0 Hz

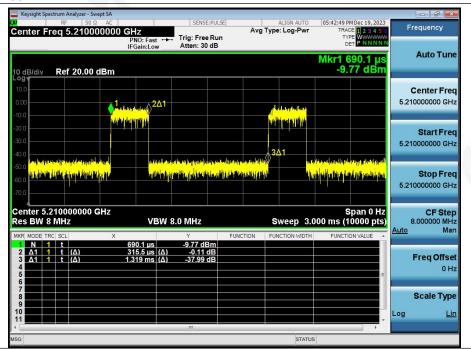
Scale Type







802.11ac80



Note: All channel have been tested, and the report only reflects the worst case data.

Duty Cycle= Ton /Total*100%

Duty Cycle Correction Factor = 10log (1/Duty Cycle)

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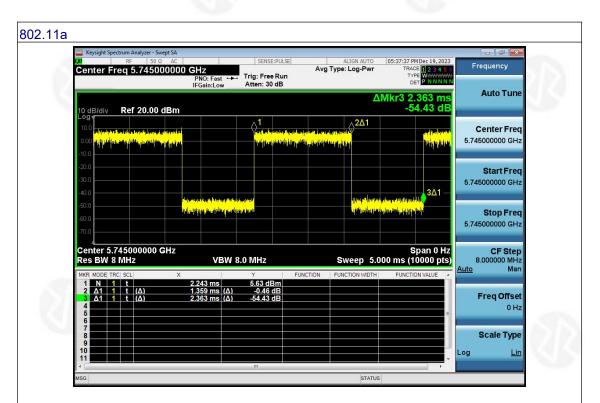




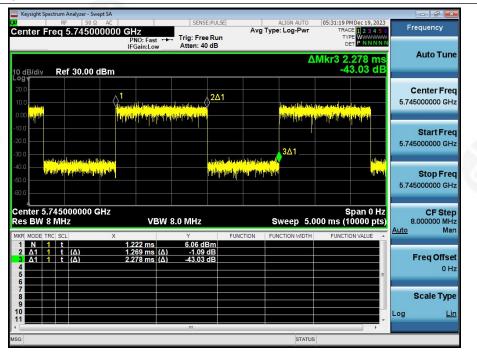


5.8G						
Mode	Frequency (MHz)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Result		
802.11a	5745	57.51	2.40	Pass		
802.11n20	5745	55.71	2.54	Pass		
802.11n40	5755	38.64	4.13	Pass		
802.11ac20	5745	55.87	2.53	Pass		
802.11ac40	5755	38.79	4.11	Pass		
802.11ac80	5775	23.85	6.23	Pass		





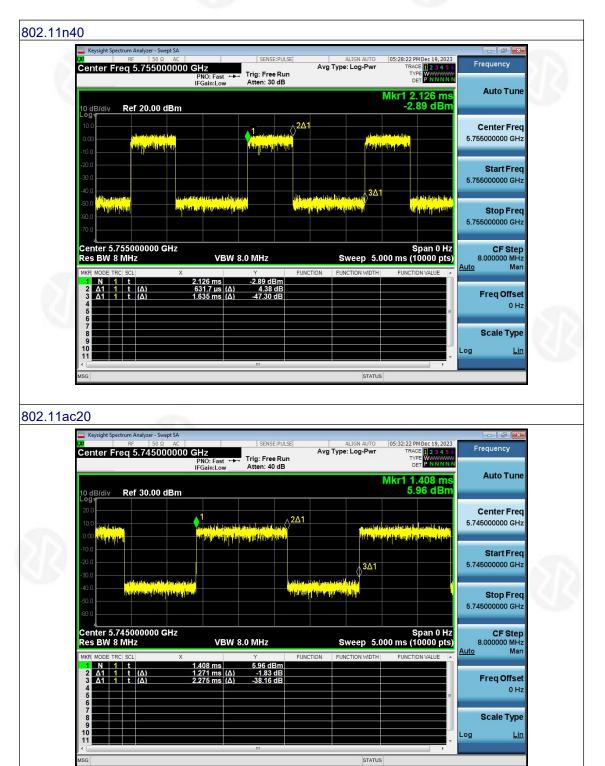
802.11n20



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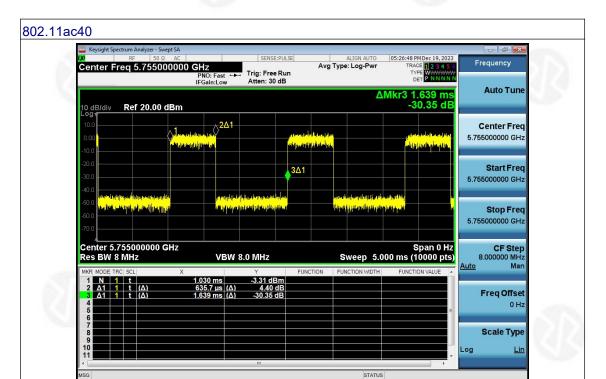




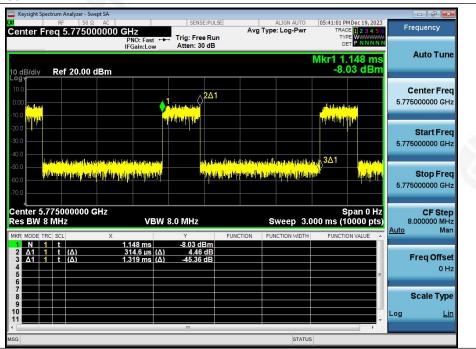
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802.11ac80



Note: All channel have been tested, and the report only reflects the worst case data.

Duty Cycle= Ton /Total*100%

Duty Cycle Correction Factor = 10log (1/Duty Cycle)

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15. ANTENNA REQUIREMENT

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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is External Antenna and no consideration of replacement. The best case gain of the antenna is 2.0 dBi.

**** END OF REPORT ****

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