

:2020-06-01

Test Date



:ER/2020/30080

Report Number

~					_ "		
Oţ	peration Mode	:802.11ax8	30B4		Temp./Humi.	:25.3/75	
Те	st Frequency	:5775 MHz	2		Antenna Pol.	:HORIZONT/	۹L
	st Mode	:Bandedge	e CH Hiah		Engineer	:Thomas	
	JT Pol	:H Plane	orrigit		Lighteet		
	JI POI	.n Plane					
	160 Level (dBuV/m)						
	150						
	130			·			
	110						
	month and the second	Army					
	90						
		hunderman	1 2 3				
	70		and the second with the second	elendary	. 5,		
	50			a a a a a a a a a a a a a a a a a a a			
	30						
	10				· · · · · · · · · · · · · · · · · · ·		
	0 5775	5815.	5855.	5895.	5935.	5975	
	5775	5615.	5655. Frequency		5955.	5975	
	Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	I	Mode	Reading Level		FS	@3m	5
	MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
	5850.00	Peak	55.05	15.75	70.80	122.20	-51.40
	5855.00	Peak	51.92	15.75	67.67	110.80	-43.13
	5867.00	Peak	53.38	15.75	69.13	107.44	-38.31
	5875.00	Peak	44.77	15.75	60.52	105.20	-44.68
	5925.00	Peak	40.03	16.06	56.09	68.20	-12.11
	3923.00	reak	10.00	10.00	00.00	00.20	12.11

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11.7.4 Spot Check of Calling Mode

Report Number:ER/2020/30080Operation Mode:802.11n40B3Test Frequency:5550 MHzTest Mode:Tx CH MidEUT Pol:H Plane

Test Date:2020-06-08Temp./Humi.:26.6/75Antenna Pol.:VERTICALEngineer:Neo



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Operat		:ER/2020/3 :802.11n40 :5550 MHz :Tx CH Mid :H Plane	B3		Test Date Temp./Hum Antenna Po Engineer		
معلو	evel (dBuV/m)						
90							
80		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
70	◨ᅟᇞᇊᅟᇍᇊ᠊᠋		_L				
60							
50							
40							
30							
20							
10							
0	000	8800.	16600.	24400.	32200.	40000	
			Frequen				
Fr	req.	Detector Mode	Spectrum Reading Leve	Factor	Actual FS	Limit @3m	Margin
М	1Hz P	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
			·		·	·	
		Average	21.60	27.23	48.83	54.00	-5.17
111(00.00	Peak	30.31	27.23	57.54	74.00	-16.46



10600.00

10600.00

Average

Peak

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/ :802.11ax :5300 MH :Tx CH M :H Plane	20B2 z		Test Date Temp./Humi. Antenna Pol Engineer		
97Level (dBuV/m)						
90						
80	יייייייייייייייייייייייייייייייייייייי					
60	U-tillt		<u>t-</u> <u>t-</u>			
50						
40						
30		 				
20						
10						
0 <mark></mark> 1000	8800.	16600. Frequen	24400. cy (MHz)	32200.	40000	
Freq.	Detector	Spectrum	. Factor	Actual	Limit	Margin
MHz F	Mode PK/QP/AV	Reading Leve dBµV	el dB	FS dBµV/m	@3m dBµV/m	dB
	·	•		ł	•	

26.78

26.78

47.35

57.32

54.00

74.00

-6.65

-16.68

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20.57

30.54

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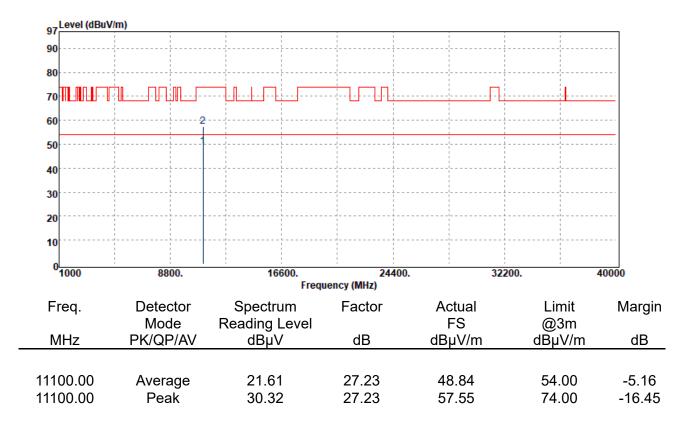
Report No Operation Test Freq Test Mode EUT Pol	n Mode Juency		.11a 0 MI CH N	/lid				Test Date Temp./Hu Antenna Engineer	umi. Pol.	:2020-06-0 :26.6/75 :HORIZON :Neo	
oz Level ((dBuV/m)										
90								 			
80						 		 			
70	╘╫╌╴║┊╢╴╴╴╴┤╴╽							 		· ·	
60		2						 			
50	· · · · · · · · · · · · · · · · · · ·							 		· ·	
40	· · · · · · · · · · · · · · · · · · ·							 			
30	·							 			
20	·					- - 		 			
10	·					 	- - - -				
0		800.		1	6600.	24	1400.	32200.		40000	
						ncy (MHz)					
Freq.	. [Detecto Mode			Spectrum ading Lev	(a)	Factor	Actual FS		Limit @3m	Margin
MHz	P	K/QP/		Ne	dBµV		dB	dBµV/m		dBµV/m	dB
10600. 10600.		Averag Peak			20.51 30.42		26.78 26.78	47.29 57.20		54.00 74.00	-6.71 -16.80



11.7.5 Spot Check of Gaming Mode

Report Number:ER/2020/30080Operation Mode:802.11n40B3Test Frequency:5550 MHzTest Mode:Tx CH MidEUT Pol:H Plane

Test Date:2020-06-08Temp./Humi.:26.6/75Antenna Pol.:VERTICALEngineer:Neo



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Report Num Operation M Test Freque Test Mode EUT Pol	Mode ency	:ER/202 :802.11r :5550 M :Tx CH I :H Plane	Hz Vid					Test Date Temp./Hu Antenna I Engineer	imi.	:2020- :26.6/7 :HORI :Neo		L
97	uV/m)											
90				· · · · · · · · · · · · ·								
80		 						 	 			
70								n				
60		 		.								
50	1			1								
40		- L	/k									
30		· • • • • • • • • • • • • • • • • • • •	J 							·		
20												
10			 				 			·		
0 <mark></mark>	: 88	300.	16600.			400.		32200.	:	10000		
	_		_	Frequenc								
Freq.		etector Mode		ctrum 1g Leve		actor		Actual FS		Lim @3r		Margin
MHz		(/QP/AV		ig Leve 3µV	1	dB		dBµV/m		dBµV		dB
								•		•		
11100.00		verage		.51		27.23		48.74		54.0		-5.26
11100.00		Peak	30).54		27.23		57.77		74.0	0	-16.23



10600.00

Peak

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/3 :802.11ax2 :5300 MHz :Tx CH Mic :H Plane	20B2 <u>z</u>		Test Date Temp./Humi. Antenna Pol. Engineer	:2020-06-08 :26.6/75 :VERTICAL :Neo	
97 Level (dBuV/m)				· · · · ·		
90						
80						
70						
60						
	2					
50						
40						
30						
20						
10				·····		
0	3800.	16600.	24400.	32200.	40000	
1000		Frequent		52200.	40000	
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
· · · · _	Mode	Reading Leve		FS	@3m	
MHz P	K/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	Average	20.54	26.78	47.32	54.00	-6.68

26.78

56.03

74.00

-17.97

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29.25



Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/300 :802.11ax20B :5300 MHz :Tx CH Mid :H Plane			Test Date Temp./Hur Antenna P Engineer	ni. :26 ol. :H	:2020-06-08 :26.6/75 :HORIZONTAL :Neo		
97 Level (dBuV/m)								
90		· · · · · · · · · · · · · · · · · · ·	 1	·				
80			 1	·				
70	- ŧĴNtJ †-Jtt		 					
60	2		 					
50								
40			 					
30		· · · · · · · · · · · · · · · · · · ·		·				
20		·····	 i	·				
10			 i					
0 <mark></mark>	8800.	16600. Frequen	400.	32200.	4000	0		
Freq.	Detector Mode R	Spectrum leading Leve	Factor	Actual FS		Limit @3m	Margin	
MHz P	K/QP/AV	dBµV	dB	dBµV/m		ΒµV/m	dB	

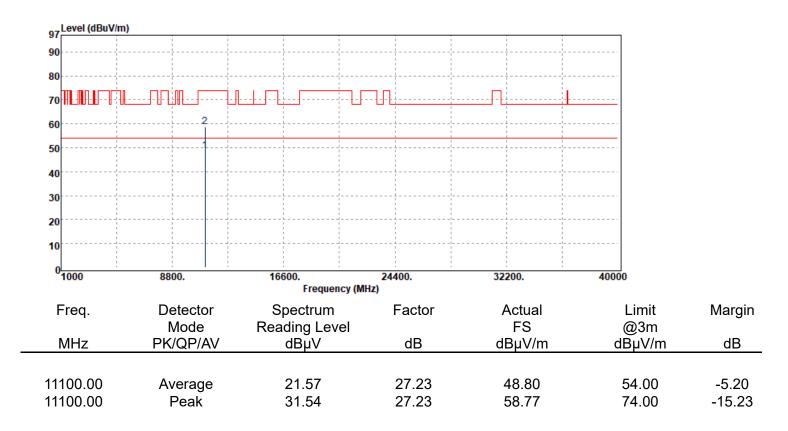
					a _ a . ,	
10600.00	Average	20.61	26.78	47.39	54.00	-6.61
10000.00	Average	20.01	20.70	+1.00	54.00	-0.01
10600.00	Peak	29.77	26.78	56.55	74.00	-17.45

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11.7.6 Spot Check of Normal Mode

Report Number	:ER/2020/30080	Test Date	:2020-06-08
Operation Mode	:802.11n40B3	Temp./Humi.	:26.6/75
Test Frequency	:5550 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Neo
EUT Pol	:H Plane		



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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020/30 :802.11n40B :5550 MHz :Tx CH Mid :H Plane			Test Date Temp./Humi. Antenna Pol. Engineer	:2020-06-08 :26.6/75 :HORIZONTAL :Neo
97 Level (dBuV/m)					
90					
80					
70 <mark>-11-11-1-1-1-1-1</mark>	-1-1,1,1,11,1,1		L_FL-F		
60	2				
50		· · · · · · · · · · · · · · · · · · ·			
40					
30					
20					
10					
01000	8800.	16600. Frequency	24400. (MHz)	32200.	40000
Freq.	Detector	Spectrum	Factor	Actual	Limit Margin
MHz	Mode I PK/QP/AV	Reading Level dBµV	dB	FS dBµV/m	@3m dBµV/m dB
		υσμν	UD	ασμν/π	ubµv/iii ub
11100.00	Average	21.38	27.23	48.61	54.00 -5.39
11100.00	Peak	30.94	27.23	58.17	74.00 -15.83



10600.00

Peak

Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/202 :802.11a :5300 M :Tx CH M :H Plane	nx20B2 Hz Mid		Test Date Temp./Hum Antenna Po Engineer		
97 Level (dBuV/m)						
90	 					
80				i i i i i i		
70			 			
60	· · · · · · · · · · · · · · · · · · ·					
	2					
50						
40		J 				
30	·					
20						
10		, , , , , , , , , , , , , , , , , , ,				
0 <mark></mark>	8800.	16600.	24400.	32200.	40000	
1000	0000.		ency (MHz)	52200.	40000	
Freq.	Detector	Spectrum		Actual	Limit	Margin
N 41 1-	Mode	Reading Le		FS	@3m	
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00	Average	20.66	26.78	47.44	54.00	-6.56

26.78

57.13

74.00

-16.87

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:ER/2020 :802.11ax :5300 MH :Tx CH M :H Plane	20B2 z		Test Date Temp./Humi Antenna Po Engineer		
97						
90						
80						
70		L				
60	2					
50						
40						
30						
20						
10						
0	8800.	16600.	24400.	32200.	40000	
F rog	Detector	-	cy (MHz)	A stud	Limit	Marain
Freq.	Detector Mode	Spectrum Reading Leve	Factor el	Actual FS	@3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10600.00 10600.00	Average Peak	20.57 29.22	26.78 26.78	47.35 56.00	54.00 74.00	-6.65 -18.00



12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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 signaling 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.

12.2 Result

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.

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13 FREQUENCY STABILITY

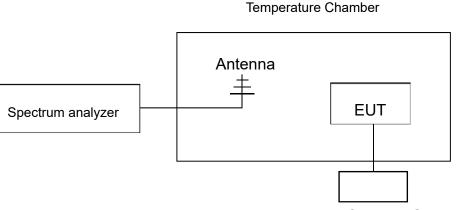
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

- 1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



Variable AC Power Supply

13.4 Measurement Equipment Used:

SGS Conducted Room						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
EXA Spectrum An- alyzer	Agilent	N9010A	MY50420195	05/06/2020	05/05/2021	
DC Power Supply	Agilent	E3640A	MY40005907	10/22/2019	10/21/2020	
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021	
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021	
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021	

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13.5 Measurement Result

Start up

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.04800	-0.00000927
0	3.65	36	5180	5,180.01400	-0.00000270
25	3.85	36	5180	5,180.05500	-0.00001062
35	4.35	36	5180	5,179.95900	0.00000792
	3.65	36	5180	5,179.94600	0.00001042

2 minutes

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.03300	-0.00000637
0	3.65	36	5180	5,180.01500	-0.00000290
25	3.85	36	5180	5,180.00800	-0.00000154
35	4.35	36	5180	5,180.09400	-0.00001815
	3.65	36	5180	5,179.98400	0.00000309

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5 minutes

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %		

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.00200	-0.0000039
0	3.65	36	5180	5,179.94300	0.00001100
25	3.85	36	5180	5,179.92200	0.00001506
25	4.35	36	5180	5,179.91900	0.00001564
35	3.65	36	5180	5,179.93400	0.00001274

10 minutes

Operation Mode	802.11 a	Test Date	2020.06.17
Temperature	: 25.6°C	Test By	Kevin
Humidity	:64 %	•	

Test Temp.(℃)	Test Voltage(V)	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0	4.35	36	5180	5,180.00100	-0.00000019
0	3.65	36	5180	5,180.00800	-0.00000154
25	3.85	36	5180	5,180.03400	-0.00000656
25	4.35	36	5180	5,180.05900	-0.00001139
35	3.65	36	5180	5,179.96500	0.00000676

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device. According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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