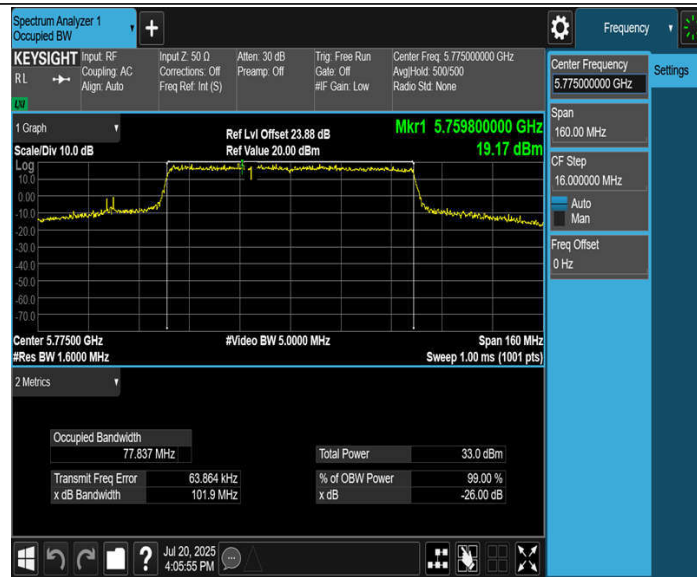
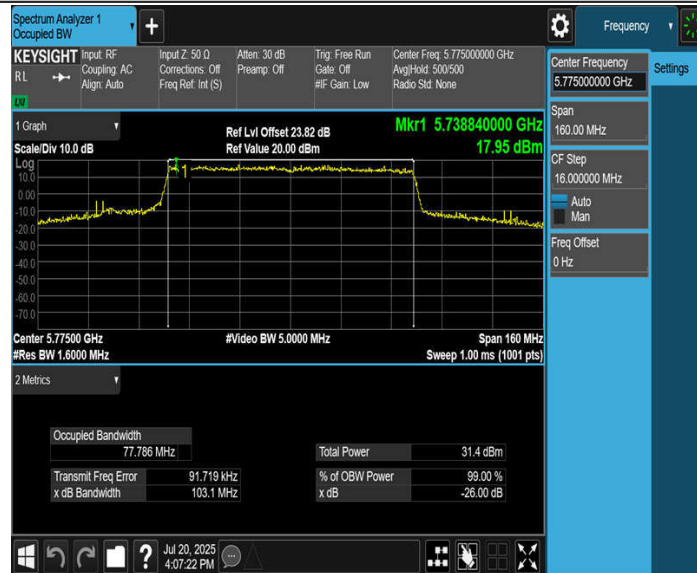
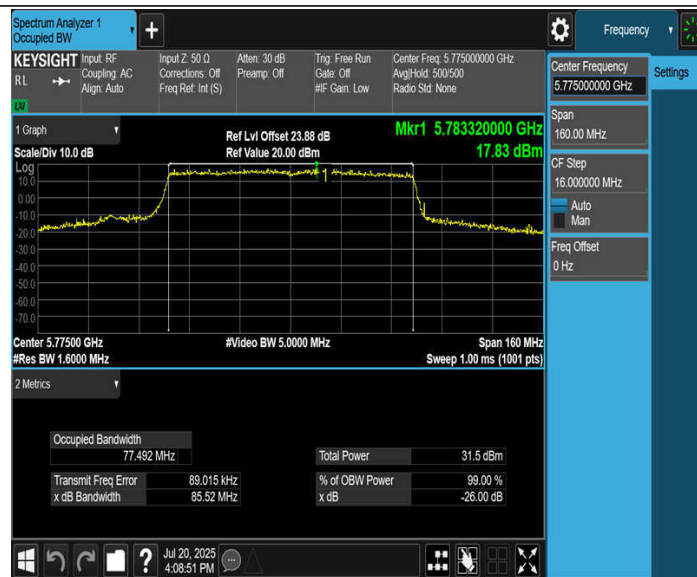




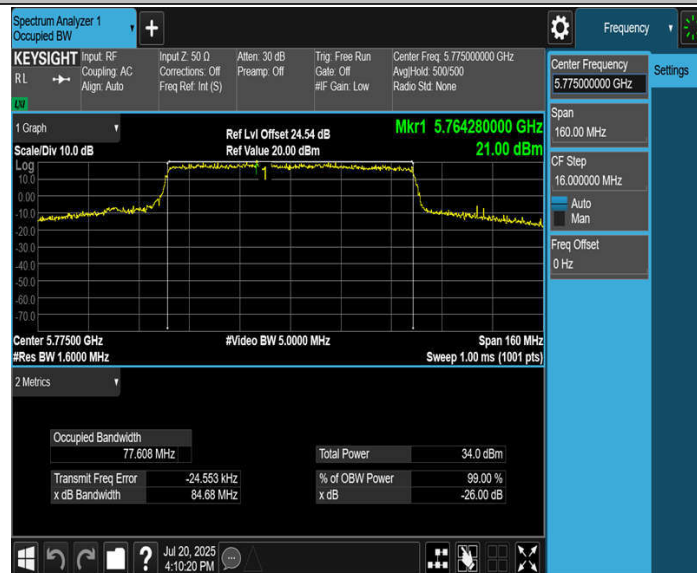
11BE80MIMO_Ant2_5775



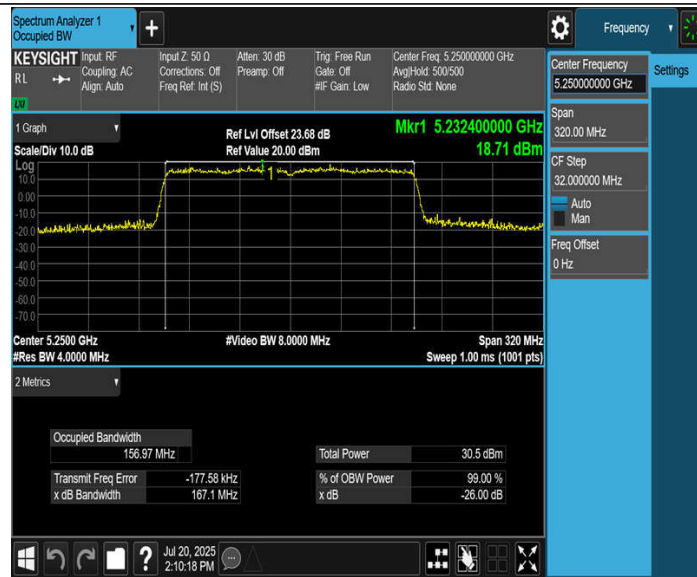
11BE80MIMO_Ant3_5775



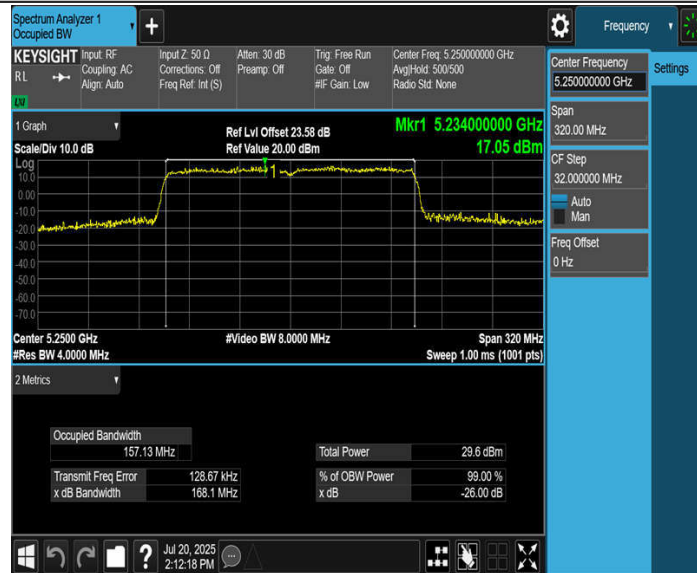
11BE80MIMO_Ant4_5775



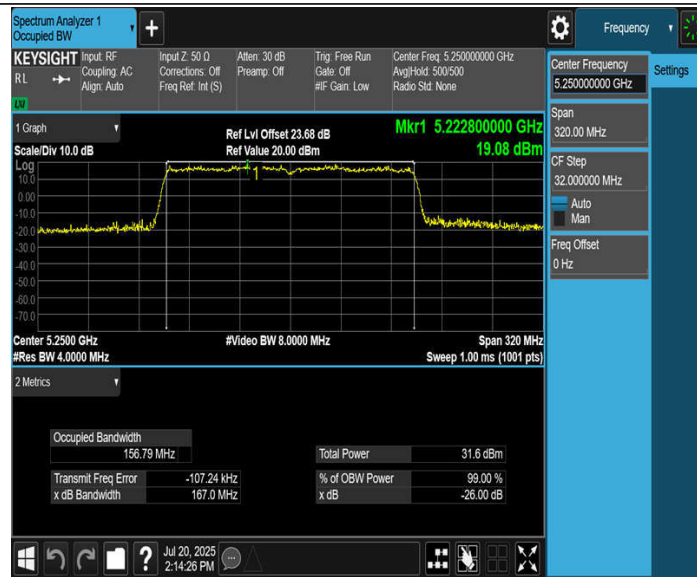
11BE160MIMO_Ant1_5250



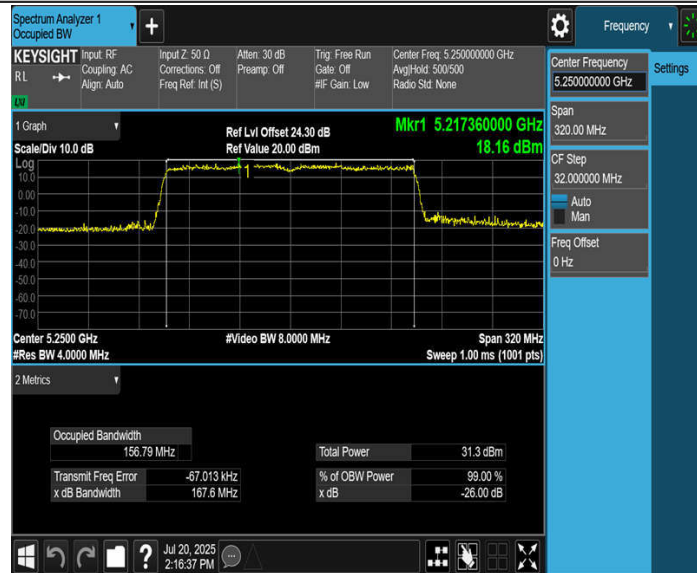
11BE160MIMO_Ant2_5250



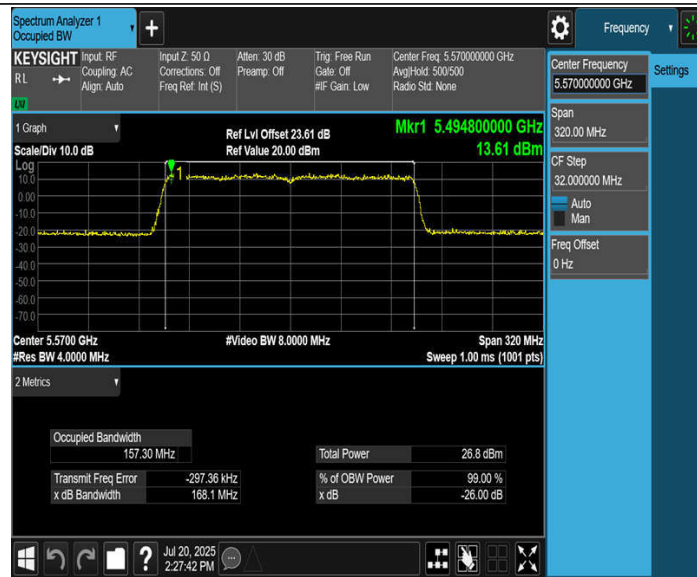
11BE160MIMO_Ant3_5250



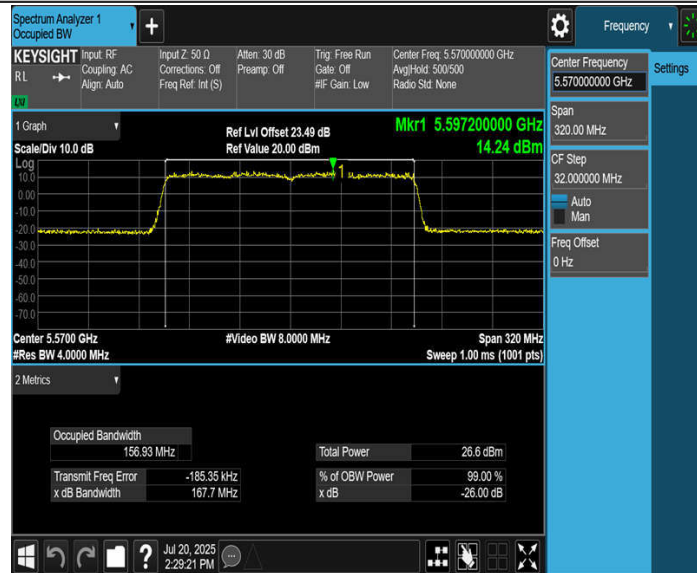
11BE160MIMO_Ant4_5250



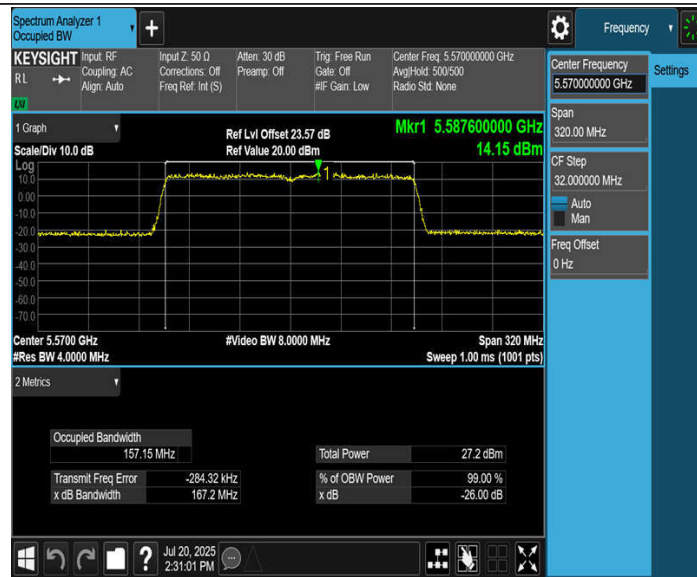
11BE160MIMO_Ant1_5570



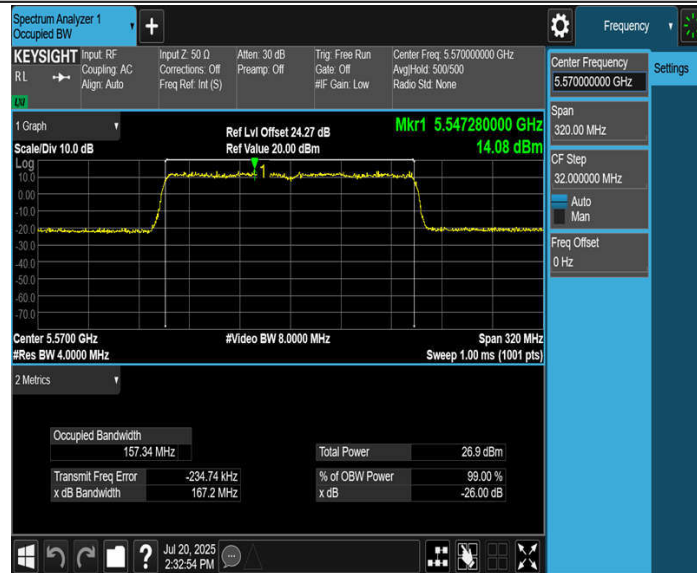
11BE160MIMO_Ant2_5570



11BE160MIMO_Ant3_5570



11BE160MIMO_Ant4_5570





3.4 Conducted Output Power

3.4.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Conducted Output Power	Master device: 1 Watt (30 dBm) Client device: 250 mW (23.98 dBm)	5150-5250
		250 mW (23.98 dBm)	5250-5350
		250 mW (23.98 dBm)	5470-5725
		1 Watt (30dBm)	5725-5850

Note:

a. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. 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.

b. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26dB Bandwidth in megahertz.

c. Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

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 directly connected to the power meter and antenna output port as show in the block diagram below.

b) Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

3.4.3 Test Setup



3.4.4 Table of Parameters of Text Software Setting

No Beamforming

UNII-1			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	76	75	73
IEEE 802.11be(HE20)	81	77	77
Frequency (MHz)	5190	5230	
IEEE 802.11be(HE40)	76	83	
Frequency (MHz)	5210		
IEEE 802.11be(HE80)	78		
Frequency (MHz)	5250		
IEEE 802.11be(HE160)	68		

UNII-2A			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	52	48	48
IEEE 802.11be(HE20)	51	51	54
Frequency (MHz)	5270	5310	
IEEE 802.11be(HE40)	60	61	
Frequency (MHz)	5290		
IEEE 802.11be(HE80)	63		
Frequency (MHz)	5250		
IEEE 802.11be(HE160)	68		

UNII-2C			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	50	50	49
IEEE 802.11be(HE20)	54	54	52
Frequency (MHz)	5510	5550	5670
IEEE 802.11be(HE40)	62	63	63
Frequency (MHz)	5530	5610	
IEEE 802.11be(HE80)	63	62	
Frequency (MHz)	5570		
IEEE 802.11be(HE160)	61		

UNII-3			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	82	83	86
IEEE 802.11be(HE20)	82	82	86
Frequency (MHz)	5755	5795	
IEEE 802.11be(HE40)	78	81	
Frequency (MHz)	5775		
IEEE 802.11be(HE80)	81		

Beamforming

UNII-1			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5180	5200	5240
IEEE 802.11a	61	61	61
IEEE 802.11be(HE20)	61	65	65
Frequency (MHz)	5190	5230	
IEEE 802.11be(HE40)	55	67	
Frequency (MHz)	5210		
IEEE 802.11be(HE80)	57		
Frequency (MHz)	5250		
IEEE 802.11be(HE160)	37		

UNII-2A			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5260	5300	5320
IEEE 802.11a	38	38	38
IEEE 802.11be(HE20)	40	40	39
Frequency (MHz)	5270	5310	
IEEE 802.11be(HE40)	44	42	
Frequency (MHz)	5290		
IEEE 802.11be(HE80)	44		
Frequency (MHz)	5250		
IEEE 802.11be(HE160)	37		

UNII-2C			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5500	5580	5700
IEEE 802.11a	38	39	39
IEEE 802.11be(HE20)	39	41	37
Frequency (MHz)	5510	5550	5670

IEEE 802.11be(HE40)	43	43	43
Frequency (MHz)	5530	5610	
IEEE 802.11be(HE80)	44	45	
Frequency (MHz)	5570		
IEEE 802.11be(HE160)	45		

UNII-3			
Test Software Version	accessMTool_REL_3_3_0_6		
Frequency (MHz)	5745	5785	5825
IEEE 802.11a	72	72	68
IEEE 802.11be(HE20)	70	70	69
Frequency (MHz)	5755	5795	
IEEE 802.11be(HE40)	72	71	
Frequency (MHz)	5775		
IEEE 802.11be(HE80)	72		

3.4.5 The Result

No Beamforming

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	19.98	94.95	0.23	20.21	≤30.00	PASS
	Ant2	5180	18.11	94.95	0.23	18.34	≤30.00	PASS
	Ant3	5180	21.12	94.93	0.23	21.35	≤30.00	PASS
	Ant4	5180	20.04	94.95	0.23	20.27	≤30.00	PASS
	total	5180	---	---	---	26.19	≤30.00	PASS
	Ant1	5200	20.23	94.93	0.23	20.46	≤30.00	PASS
	Ant2	5200	21.00	94.93	0.23	21.23	≤30.00	PASS
	Ant3	5200	18.67	94.93	0.23	18.90	≤30.00	PASS
	Ant4	5200	20.29	94.50	0.25	20.54	≤30.00	PASS
	total	5200	---	---	---	26.38	≤30.00	PASS
	Ant1	5240	19.96	94.95	0.23	20.19	≤30.00	PASS
	Ant2	5240	18.15	94.93	0.23	18.38	≤30.00	PASS
	Ant3	5240	20.36	94.95	0.23	20.59	≤30.00	PASS
	Ant4	5240	19.85	94.50	0.25	20.10	≤30.00	PASS
	total	5240	---	---	---	25.91	≤30.00	PASS
	Ant1	5260	13.60	94.93	0.23	13.83	≤23.98	PASS
	Ant2	5260	14.07	94.95	0.23	14.30	≤23.98	PASS
	Ant3	5260	13.35	94.95	0.23	13.58	≤23.98	PASS
	Ant4	5260	14.60	94.95	0.23	14.83	≤23.98	PASS
	total	5260	---	---	---	20.18	≤23.98	PASS
	Ant1	5280	13.67	94.95	0.23	13.90	≤23.98	PASS
	Ant2	5280	13.47	94.95	0.23	13.70	≤23.98	PASS
	Ant3	5280	14.31	94.93	0.23	14.54	≤23.98	PASS
	Ant4	5280	14.80	94.50	0.25	15.05	≤23.98	PASS
	total	5280	---	---	---	20.35	≤23.98	PASS
	Ant1	5320	12.83	94.95	0.23	13.06	≤23.98	PASS
	Ant2	5320	12.48	94.95	0.23	12.71	≤23.98	PASS
	Ant3	5320	13.75	94.93	0.23	13.98	≤23.98	PASS
	Ant4	5320	14.36	94.93	0.23	14.59	≤23.98	PASS
	total	5320	---	---	---	19.67	≤23.98	PASS
	Ant1	5500	13.60	94.50	0.25	13.85	≤23.98	PASS
	Ant2	5500	12.72	94.50	0.25	12.97	≤23.98	PASS
	Ant3	5500	14.54	94.93	0.23	14.77	≤23.98	PASS
	Ant4	5500	14.22	94.95	0.23	14.45	≤23.98	PASS
	total	5500	---	---	---	20.08	≤23.98	PASS
	Ant1	5580	13.72	94.95	0.23	13.95	≤23.98	PASS
	Ant2	5580	13.12	94.93	0.23	13.35	≤23.98	PASS

	Ant3	5580	14.42	94.95	0.23	14.65	≤23.98	PASS
	Ant4	5580	13.93	94.93	0.23	14.16	≤23.98	PASS
	total	5580	---	---	---	20.07	≤23.98	PASS
	Ant1	5700	13.24	94.93	0.23	13.47	≤23.98	PASS
	Ant2	5700	14.18	94.50	0.25	14.43	≤23.98	PASS
	Ant3	5700	14.63	94.50	0.25	14.88	≤23.98	PASS
	Ant4	5700	13.88	94.93	0.23	14.11	≤23.98	PASS
	total	5700	---	---	---	20.27	≤23.98	PASS
	Ant1	5745	23.93	94.50	0.25	24.18	≤30.00	PASS
	Ant2	5745	21.66	94.93	0.23	21.89	≤30.00	PASS
	Ant3	5745	21.81	94.95	0.23	22.04	≤30.00	PASS
	Ant4	5745	24.63	94.95	0.23	24.86	≤30.00	PASS
	total	5745	---	---	---	29.46	≤30.00	PASS
	Ant1	5785	23.92	94.95	0.23	24.15	≤30.00	PASS
	Ant2	5785	21.86	94.93	0.23	22.09	≤30.00	PASS
	Ant3	5785	21.29	94.50	0.25	21.54	≤30.00	PASS
	Ant4	5785	24.18	94.50	0.25	24.43	≤30.00	PASS
	total	5785	---	---	---	29.25	≤30.00	PASS
	Ant1	5825	23.27	94.95	0.23	23.50	≤30.00	PASS
	Ant2	5825	21.82	94.93	0.23	22.05	≤30.00	PASS
	Ant3	5825	21.23	94.93	0.23	21.46	≤30.00	PASS
	Ant4	5825	23.25	94.93	0.23	23.48	≤30.00	PASS
	total	5825	---	---	---	28.73	≤30.00	PASS
11BE20MI MO	Ant1	5180	21.13	98.04	0.09	21.22	≤30.00	PASS
	Ant2	5180	19.61	97.39	0.11	19.72	≤30.00	PASS
	Ant3	5180	21.86	98.04	0.09	21.95	≤30.00	PASS
	Ant4	5180	21.93	98.04	0.09	22.02	≤30.00	PASS
	total	5180	---	---	---	27.34	≤30.00	PASS
	Ant1	5200	21.20	97.39	0.11	21.31	≤30.00	PASS
	Ant2	5200	19.53	98.04	0.09	19.62	≤30.00	PASS
	Ant3	5200	22.27	98.04	0.09	22.36	≤30.00	PASS
	Ant4	5200	21.23	97.39	0.11	21.34	≤30.00	PASS
	total	5200	---	---	---	27.28	≤30.00	PASS
	Ant1	5240	21.42	97.39	0.11	21.53	≤30.00	PASS
	Ant2	5240	19.55	97.39	0.11	19.66	≤30.00	PASS
	Ant3	5240	22.32	97.39	0.11	22.43	≤30.00	PASS
	Ant4	5240	21.21	98.04	0.09	21.30	≤30.00	PASS
	total	5240	---	---	---	27.36	≤30.00	PASS
	Ant1	5260	14.64	98.04	0.09	14.73	≤23.98	PASS
	Ant2	5260	14.29	98.04	0.09	14.38	≤23.98	PASS
	Ant3	5260	15.53	97.39	0.11	15.64	≤23.98	PASS
	Ant4	5260	16.04	97.39	0.11	16.15	≤23.98	PASS

	total	5260	---	---	---	21.30	≤23.98	PASS
	Ant1	5280	14.79	97.39	0.11	14.90	≤23.98	PASS
	Ant2	5280	14.56	98.04	0.09	14.65	≤23.98	PASS
	Ant3	5280	15.67	98.04	0.09	15.76	≤23.98	PASS
	Ant4	5280	15.95	97.39	0.11	16.06	≤23.98	PASS
	total	5280	---	---	---	21.40	≤23.98	PASS
	Ant1	5320	14.63	97.39	0.11	14.74	≤23.98	PASS
	Ant2	5320	14.19	98.04	0.09	14.28	≤23.98	PASS
	Ant3	5320	15.53	97.39	0.11	15.64	≤23.98	PASS
	Ant4	5320	15.96	98.04	0.09	16.05	≤23.98	PASS
	total	5320	---	---	---	21.25	≤23.98	PASS
	Ant1	5500	14.89	98.04	0.09	14.98	≤23.98	PASS
	Ant2	5500	13.92	98.04	0.09	14.01	≤23.98	PASS
	Ant3	5500	15.96	97.39	0.11	16.07	≤23.98	PASS
	Ant4	5500	15.27	97.39	0.11	15.38	≤23.98	PASS
	total	5500	---	---	---	21.19	≤23.98	PASS
	Ant1	5580	15.17	98.04	0.09	15.26	≤23.98	PASS
	Ant2	5580	14.62	98.04	0.09	14.71	≤23.98	PASS
	Ant3	5580	16.00	97.39	0.11	16.11	≤23.98	PASS
	Ant4	5580	15.37	97.39	0.11	15.48	≤23.98	PASS
	total	5580	---	---	---	21.44	≤23.98	PASS
	Ant1	5700	14.52	98.04	0.09	14.61	≤23.98	PASS
	Ant2	5700	15.47	98.04	0.09	15.56	≤23.98	PASS
	Ant3	5700	15.85	98.04	0.09	15.94	≤23.98	PASS
	Ant4	5700	15.13	98.04	0.09	15.22	≤23.98	PASS
	total	5700	---	---	---	21.38	≤23.98	PASS
	Ant1	5745	24.21	97.39	0.11	24.32	≤30.00	PASS
	Ant2	5745	21.90	97.39	0.11	22.01	≤30.00	PASS
	Ant3	5745	22.15	98.04	0.09	22.24	≤30.00	PASS
	Ant4	5745	24.94	97.39	0.11	25.05	≤30.00	PASS
	total	5745	---	---	---	29.62	≤30.00	PASS
	Ant1	5785	24.20	98.04	0.09	24.29	≤30.00	PASS
	Ant2	5785	22.22	97.39	0.11	22.33	≤30.00	PASS
	Ant3	5785	21.70	98.04	0.09	21.79	≤30.00	PASS
	Ant4	5785	24.49	98.04	0.09	24.58	≤30.00	PASS
	total	5785	---	---	---	29.43	≤30.00	PASS
	Ant1	5825	23.55	98.04	0.09	23.64	≤30.00	PASS
	Ant2	5825	22.34	98.03	0.09	22.43	≤30.00	PASS
	Ant3	5825	21.63	97.39	0.11	21.74	≤30.00	PASS
	Ant4	5825	23.59	98.03	0.09	23.68	≤30.00	PASS
	total	5825	---	---	---	28.97	≤30.00	PASS
11BE40MI	Ant1	5190	20.44	96.30	0.16	20.60	≤30.00	PASS

MO	Ant2	5190	18.88	95.12	0.22	19.10	≤30.00	PASS
	Ant3	5190	20.93	95.12	0.22	21.15	≤30.00	PASS
	Ant4	5190	20.77	96.30	0.16	20.93	≤30.00	PASS
	total	5190	---	---	---	26.53	≤30.00	PASS
	Ant1	5230	23.21	96.30	0.16	23.37	≤30.00	PASS
	Ant2	5230	21.17	96.30	0.16	21.33	≤30.00	PASS
	Ant3	5230	23.80	96.30	0.16	23.96	≤30.00	PASS
	Ant4	5230	22.98	96.30	0.16	23.14	≤30.00	PASS
	total	5230	---	---	---	29.07	≤30.00	PASS
	Ant1	5270	16.77	95.12	0.22	16.99	≤23.98	PASS
	Ant2	5270	16.22	96.30	0.16	16.38	≤23.98	PASS
	Ant3	5270	17.23	96.30	0.16	17.39	≤23.98	PASS
	Ant4	5270	18.04	96.30	0.16	18.20	≤23.98	PASS
	total	5270	---	---	---	23.31	≤23.98	PASS
	Ant1	5310	16.43	96.30	0.16	16.59	≤23.98	PASS
	Ant2	5310	15.67	95.12	0.22	15.89	≤23.98	PASS
	Ant3	5310	17.17	96.30	0.16	17.33	≤23.98	PASS
	Ant4	5310	17.76	96.30	0.16	17.92	≤23.98	PASS
	total	5310	---	---	---	23.02	≤23.98	PASS
	Ant1	5510	16.91	95.12	0.22	17.13	≤23.98	PASS
	Ant2	5510	16.18	96.30	0.16	16.34	≤23.98	PASS
	Ant3	5510	18.14	96.30	0.16	18.30	≤23.98	PASS
	Ant4	5510	17.69	95.12	0.22	17.91	≤23.98	PASS
	total	5510	---	---	---	23.50	≤23.98	PASS
	Ant1	5550	17.38	95.12	0.22	17.60	≤23.98	PASS
	Ant2	5550	16.95	96.30	0.16	17.11	≤23.98	PASS
	Ant3	5550	18.46	95.12	0.22	18.68	≤23.98	PASS
	Ant4	5550	17.81	96.30	0.16	17.97	≤23.98	PASS
	total	5550	---	---	---	23.90	≤23.98	PASS
	Ant1	5670	17.17	96.30	0.16	17.33	≤23.98	PASS
	Ant2	5670	17.36	96.30	0.16	17.52	≤23.98	PASS
	Ant3	5670	18.18	96.30	0.16	18.34	≤23.98	PASS
	Ant4	5670	17.71	96.30	0.16	17.87	≤23.98	PASS
	total	5670	---	---	---	23.80	≤23.98	PASS
	Ant1	5755	23.62	96.30	0.16	23.78	≤30.00	PASS
	Ant2	5755	21.64	96.30	0.16	21.80	≤30.00	PASS
	Ant3	5755	21.26	96.30	0.16	21.42	≤30.00	PASS
	Ant4	5755	24.53	95.12	0.22	24.75	≤30.00	PASS
	total	5755	---	---	---	29.18	≤30.00	PASS
	Ant1	5795	23.88	96.30	0.16	24.04	≤30.00	PASS
	Ant2	5795	22.20	96.30	0.16	22.36	≤30.00	PASS
	Ant3	5795	21.45	95.12	0.22	21.67	≤30.00	PASS

	Ant4	5795	23.99	96.30	0.16	24.15	≤30.00	PASS
	total	5795	---	---	---	29.20	≤30.00	PASS
11BE80MI MO	Ant1	5210	19.42	91.11	0.40	19.82	≤30.00	PASS
	Ant2	5210	18.20	93.18	0.31	18.51	≤30.00	PASS
	Ant3	5210	20.80	93.18	0.31	21.11	≤30.00	PASS
	Ant4	5210	21.32	90.91	0.41	21.73	≤30.00	PASS
	total	5210	---	---	---	26.48	≤30.00	PASS
	Ant1	5290	16.44	93.18	0.31	16.75	≤23.98	PASS
	Ant2	5290	16.56	91.11	0.40	16.96	≤23.98	PASS
	Ant3	5290	17.63	91.11	0.40	18.03	≤23.98	PASS
	Ant4	5290	18.69	93.18	0.31	19.00	≤23.98	PASS
	total	5290	---	---	---	23.80	≤23.98	PASS
	Ant1	5530	16.85	93.18	0.31	17.16	≤23.98	PASS
	Ant2	5530	16.44	91.11	0.40	16.84	≤23.98	PASS
	Ant3	5530	17.90	90.91	0.41	18.31	≤23.98	PASS
	Ant4	5530	18.45	91.11	0.40	18.85	≤23.98	PASS
	total	5530	---	---	---	23.89	≤23.98	PASS
	Ant1	5610	17.76	93.18	0.31	18.07	≤23.98	PASS
	Ant2	5610	17.22	93.18	0.31	17.53	≤23.98	PASS
	Ant3	5610	17.80	93.18	0.31	18.11	≤23.98	PASS
	Ant4	5610	17.19	93.18	0.31	17.50	≤23.98	PASS
	total	5610	---	---	---	23.83	≤23.98	PASS
	Ant1	5775	23.89	91.11	0.40	24.29	≤30.00	PASS
	Ant2	5775	22.17	93.18	0.31	22.48	≤30.00	PASS
	Ant3	5775	22.23	93.18	0.31	22.54	≤30.00	PASS
	Ant4	5775	24.64	91.11	0.40	25.04	≤30.00	PASS
	total	5775	---	---	---	29.75	≤30.00	PASS
11BE160MI MO	Ant1	5250_UNII-1	14.88	88.89	0.51	15.39	≤30.00	PASS
	Ant2	5250_UNII-1	14.24	88.89	0.51	14.75	≤30.00	PASS
	Ant3	5250_UNII-1	15.84	85.71	0.67	16.51	≤30.00	PASS
	Ant4	5250_UNII-1	16.18	88.89	0.51	16.69	≤30.00	PASS
	total	5250_UNII-1	---	---	---	21.93	≤30.00	PASS
	Ant1	5250_UNII-2A	14.47	88.89	0.51	14.98	≤23.98	PASS
	Ant2	5250_UNII-2A	14.31	88.89	0.51	14.82	≤23.98	PASS
	Ant3	5250_UNII-	14.85	85.71	0.67	15.52	≤23.98	PASS

		2A						
	Ant4	5250_UNII-2A	15.42	88.89	0.51	15.93	≤23.98	PASS
	total	5250_UNII-2A	---	---	---	21.36	≤23.98	PASS
	Ant1	5570	16.65	88.89	0.51	17.16	≤23.98	PASS
	Ant2	5570	16.69	88.89	0.51	17.20	≤23.98	PASS
	Ant3	5570	17.16	85.71	0.67	17.83	≤23.98	PASS
	Ant4	5570	16.87	88.89	0.51	17.38	≤23.98	PASS
	total	5570	---	---	---	23.42	≤23.98	PASS

Beamforming

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	15.84	94.95	0.23	16.07	≤30.00	PASS
	Ant2	5180	14.1	94.95	0.23	14.33	≤30.00	PASS
	Ant3	5180	16.23	94.50	0.25	16.48	≤30.00	PASS
	Ant4	5180	16.22	94.95	0.23	16.45	≤30.00	PASS
	total	5180	---	---	---	21.94	≤29.09	PASS
	Ant1	5200	16.05	94.93	0.23	16.28	≤30.00	PASS
	Ant2	5200	14.42	94.95	0.23	14.65	≤30.00	PASS
	Ant3	5200	17.91	94.93	0.23	18.14	≤30.00	PASS
	Ant4	5200	18.04	94.95	0.23	18.27	≤30.00	PASS
	total	5200	---	---	---	23.09	≤29.09	PASS
	Ant1	5240	16.04	94.93	0.23	16.27	≤30.00	PASS
	Ant2	5240	13.94	94.93	0.23	14.17	≤30.00	PASS
	Ant3	5240	16.59	94.95	0.23	16.82	≤30.00	PASS
	Ant4	5240	17.64	94.93	0.23	17.87	≤30.00	PASS
	total	5240	---	---	---	22.50	≤29.09	PASS
	Ant1	5260	9.41	94.93	0.23	9.64	≤23.98	PASS
	Ant2	5260	10.29	94.95	0.23	10.52	≤23.98	PASS
	Ant3	5260	9.88	94.93	0.23	10.11	≤23.98	PASS
	Ant4	5260	13.92	94.95	0.23	14.15	≤23.98	PASS
	total	5260	---	---	---	17.54	≤23.07	PASS
	Ant1	5280	9.03	94.93	0.23	9.26	≤23.98	PASS
	Ant2	5280	10.3	94.95	0.23	10.53	≤23.98	PASS
	Ant3	5280	11.4	94.93	0.23	11.63	≤23.98	PASS
	Ant4	5280	12.11	94.95	0.23	12.34	≤23.98	PASS
	total	5280	---	---	---	17.12	≤23.07	PASS
	Ant1	5320	8.82	94.93	0.23	9.05	≤23.98	PASS
	Ant2	5320	9.75	94.50	0.25	10.00	≤23.98	PASS

	Ant3	5320	10	94.50	0.25	10.25	≤23.98	PASS
	Ant4	5320	12.94	94.50	0.25	13.19	≤23.98	PASS
	total	5320	---	---	---	16.95	≤23.07	PASS
	Ant1	5500	9.51	94.93	0.23	9.74	≤23.98	PASS
	Ant2	5500	10.25	94.50	0.25	10.50	≤23.98	PASS
	Ant3	5500	10.52	94.95	0.23	10.75	≤23.98	PASS
	Ant4	5500	12.28	94.95	0.23	12.51	≤23.98	PASS
	total	5500	---	---	---	17.02	≤23.07	PASS
	Ant1	5580	10.35	94.93	0.23	10.58	≤23.98	PASS
	Ant2	5580	10.13	94.93	0.23	10.36	≤23.98	PASS
	Ant3	5580	10.64	94.95	0.23	10.87	≤23.98	PASS
	Ant4	5580	11.53	94.50	0.25	11.78	≤23.98	PASS
	total	5580	---	---	---	16.95	≤23.07	PASS
	Ant1	5700	10.32	94.93	0.23	10.55	≤23.98	PASS
	Ant2	5700	11.4	94.95	0.23	11.63	≤23.98	PASS
	Ant3	5700	11.28	94.93	0.23	11.51	≤23.98	PASS
	Ant4	5700	11.82	94.95	0.23	12.05	≤23.98	PASS
	total	5700	---	---	---	17.49	≤23.07	PASS
	Ant1	5745	18.05	94.93	0.23	18.28	≤30.00	PASS
	Ant2	5745	15.19	94.93	0.23	15.42	≤30.00	PASS
	Ant3	5745	15.88	94.95	0.23	16.11	≤30.00	PASS
	Ant4	5745	21.29	94.95	0.23	21.52	≤30.00	PASS
	total	5745	---	---	---	24.55	≤29.09	PASS
	Ant1	5785	18.59	94.50	0.25	18.84	≤30.00	PASS
	Ant2	5785	16.92	94.93	0.23	17.15	≤30.00	PASS
	Ant3	5785	14.69	94.95	0.23	14.92	≤30.00	PASS
	Ant4	5785	20.53	94.93	0.23	20.76	≤30.00	PASS
	total	5785	---	---	---	24.45	≤29.09	PASS
	Ant1	5825	17.69	94.95	0.23	17.92	≤30.00	PASS
	Ant2	5825	15.23	94.95	0.23	15.46	≤30.00	PASS
	Ant3	5825	14.76	94.93	0.23	14.99	≤30.00	PASS
	Ant4	5825	19.81	94.93	0.23	20.04	≤30.00	PASS
	total	5825	---	---	---	23.61	≤29.09	PASS
11BE20MIM O	Ant1	5180	16.15	98.04	0.09	16.24	≤30.00	PASS
	Ant2	5180	13.24	97.39	0.11	13.35	≤30.00	PASS
	Ant3	5180	17	97.39	0.11	17.11	≤30.00	PASS
	Ant4	5180	19.44	97.39	0.11	19.55	≤30.00	PASS
	total	5180	---	---	---	23.12	≤29.09	PASS
	Ant1	5200	16.74	98.04	0.09	16.83	≤30.00	PASS
	Ant2	5200	15.56	98.04	0.09	15.65	≤30.00	PASS
	Ant3	5200	18.22	98.04	0.09	18.31	≤30.00	PASS
	Ant4	5200	19.94	98.04	0.09	20.03	≤30.00	PASS

	total	5200	---	---	---	24.04	≤29.09	PASS
	Ant1	5240	16.8	97.39	0.11	16.91	≤30.00	PASS
	Ant2	5240	15.52	97.39	0.11	15.63	≤30.00	PASS
	Ant3	5240	17.91	98.04	0.09	18.00	≤30.00	PASS
	Ant4	5240	18.42	98.04	0.09	18.51	≤30.00	PASS
	total	5240	---	---	---	23.42	≤29.09	PASS
	Ant1	5260	11.19	97.39	0.11	11.30	≤23.98	PASS
	Ant2	5260	10.95	98.04	0.09	11.04	≤23.98	PASS
	Ant3	5260	12.05	98.04	0.09	12.14	≤23.98	PASS
	Ant4	5260	12.94	98.04	0.09	13.03	≤23.98	PASS
	total	5260	---	---	---	17.97	≤23.07	PASS
	Ant1	5280	10.88	97.39	0.11	10.99	≤23.98	PASS
	Ant2	5280	11.1	98.04	0.09	11.19	≤23.98	PASS
	Ant3	5280	10.68	98.04	0.09	10.77	≤23.98	PASS
	Ant4	5280	13.03	98.04	0.09	13.12	≤23.98	PASS
	total	5280	---	---	---	17.65	≤23.07	PASS
	Ant1	5320	10.74	97.39	0.11	10.85	≤23.98	PASS
	Ant2	5320	9.2	98.04	0.09	9.29	≤23.98	PASS
	Ant3	5320	11.89	98.04	0.09	11.98	≤23.98	PASS
	Ant4	5320	13.71	98.04	0.09	13.80	≤23.98	PASS
	total	5320	---	---	---	17.81	≤23.07	PASS
	Ant1	5500	10.27	98.04	0.09	10.36	≤23.98	PASS
	Ant2	5500	10.97	98.04	0.09	11.06	≤23.98	PASS
	Ant3	5500	12.22	97.39	0.11	12.33	≤23.98	PASS
	Ant4	5500	13.53	97.39	0.11	13.64	≤23.98	PASS
	total	5500	---	---	---	18.05	≤23.07	PASS
	Ant1	5580	11.71	97.39	0.11	11.82	≤23.98	PASS
	Ant2	5580	10.11	98.04	0.09	10.20	≤23.98	PASS
	Ant3	5580	12.77	98.04	0.09	12.86	≤23.98	PASS
	Ant4	5580	12.64	98.04	0.09	12.73	≤23.98	PASS
	total	5580	---	---	---	18.04	≤23.07	PASS
	Ant1	5700	10.59	97.39	0.11	10.70	≤23.98	PASS
	Ant2	5700	11.07	98.04	0.09	11.16	≤23.98	PASS
	Ant3	5700	11.53	98.04	0.09	11.62	≤23.98	PASS
	Ant4	5700	13.79	98.04	0.09	13.88	≤23.98	PASS
	total	5700	---	---	---	18.05	≤23.07	PASS
	Ant1	5745	17.42	97.39	0.11	17.53	≤30.00	PASS
	Ant2	5745	16.36	98.04	0.09	16.45	≤30.00	PASS
	Ant3	5745	16.25	98.04	0.09	16.34	≤30.00	PASS
	Ant4	5745	21.26	98.04	0.09	21.35	≤30.00	PASS
	total	5745	---	---	---	24.48	≤29.09	PASS
	Ant1	5785	19.06	97.39	0.11	19.17	≤30.00	PASS

	Ant2	5785	18.1	98.04	0.09	18.19	≤30.00	PASS
	Ant3	5785	17.86	98.04	0.09	17.95	≤30.00	PASS
	Ant4	5785	21.22	98.04	0.09	21.31	≤30.00	PASS
	total	5785	---	---	---	25.39	≤29.09	PASS
	Ant1	5825	17.1	98.04	0.09	17.19	≤30.00	PASS
	Ant2	5825	17.34	97.39	0.11	17.45	≤30.00	PASS
	Ant3	5825	16.32	97.39	0.11	16.43	≤30.00	PASS
	Ant4	5825	20.94	97.39	0.11	21.05	≤30.00	PASS
	total	5825	---	---	---	24.46	≤29.09	PASS
11BE40MIM O	Ant1	5190	15.03	96.30	0.16	15.19	≤30.00	PASS
	Ant2	5190	13.36	96.30	0.16	13.52	≤30.00	PASS
	Ant3	5190	14.61	96.30	0.16	14.77	≤30.00	PASS
	Ant4	5190	17.52	95.12	0.22	17.74	≤30.00	PASS
	total	5190	---	---	---	21.61	≤29.09	PASS
	Ant1	5230	16.78	95.12	0.22	17.00	≤30.00	PASS
	Ant2	5230	16.25	96.30	0.16	16.41	≤30.00	PASS
	Ant3	5230	17.34	95.12	0.22	17.56	≤30.00	PASS
	Ant4	5230	18.51	96.30	0.16	18.67	≤30.00	PASS
	total	5230	---	---	---	23.51	≤29.09	PASS
	Ant1	5270	12.8	96.30	0.16	12.96	≤23.98	PASS
	Ant2	5270	11.59	95.06	0.22	11.81	≤23.98	PASS
	Ant3	5270	11.77	95.12	0.22	11.99	≤23.98	PASS
	Ant4	5270	13.76	96.30	0.16	13.92	≤23.98	PASS
	total	5270	---	---	---	18.77	≤23.07	PASS
	Ant1	5310	11.35	95.12	0.22	11.57	≤23.98	PASS
	Ant2	5310	9.9	96.30	0.16	10.06	≤23.98	PASS
	Ant3	5310	11.16	96.30	0.16	11.32	≤23.98	PASS
	Ant4	5310	14.34	96.30	0.16	14.50	≤23.98	PASS
	total	5310	---	---	---	18.21	≤23.07	PASS
	Ant1	5510	12.31	95.12	0.22	12.53	≤23.98	PASS
	Ant2	5510	9.91	96.30	0.16	10.07	≤23.98	PASS
	Ant3	5510	11.67	96.30	0.16	11.83	≤23.98	PASS
	Ant4	5510	13.64	95.06	0.22	13.86	≤23.98	PASS
	total	5510	---	---	---	18.30	≤23.07	PASS
	Ant1	5550	11.62	96.30	0.16	11.78	≤23.98	PASS
	Ant2	5550	10.82	96.30	0.16	10.98	≤23.98	PASS
	Ant3	5550	11.88	96.30	0.16	12.04	≤23.98	PASS
	Ant4	5550	15.03	95.12	0.22	15.25	≤23.98	PASS
	total	5550	---	---	---	18.87	≤23.07	PASS
	Ant1	5670	11.97	96.30	0.16	12.13	≤23.98	PASS
	Ant2	5670	11.48	95.12	0.22	11.70	≤23.98	PASS
	Ant3	5670	13.04	95.12	0.22	13.26	≤23.98	PASS

	Ant4	5670	13.58	95.06	0.22	13.80	≤23.98	PASS
	total	5670	---	---	---	18.83	≤23.07	PASS
	Ant1	5755	18.05	95.12	0.22	18.27	≤30.00	PASS
	Ant2	5755	16.57	96.30	0.16	16.73	≤30.00	PASS
	Ant3	5755	16.19	96.30	0.16	16.35	≤30.00	PASS
	Ant4	5755	20.38	96.30	0.16	20.54	≤30.00	PASS
	total	5755	---	---	---	24.32	≤29.09	PASS
	Ant1	5795	19.12	88.24	0.54	19.66	≤30.00	PASS
	Ant2	5795	16.03	91.18	0.40	16.43	≤30.00	PASS
	Ant3	5795	15.06	91.18	0.40	15.46	≤30.00	PASS
	Ant4	5795	20.42	91.18	0.40	20.82	≤30.00	PASS
	total	5795	---	---	---	24.66	≤29.09	PASS
11BE80MIM O	Ant1	5210	15.23	93.18	0.31	15.54	≤30.00	PASS
	Ant2	5210	13.35	93.18	0.31	13.66	≤30.00	PASS
	Ant3	5210	16.14	90.91	0.41	16.55	≤30.00	PASS
	Ant4	5210	18.5	91.11	0.40	18.90	≤30.00	PASS
	total	5210	---	---	---	22.60	≤29.09	PASS
	Ant1	5290	11.59	93.18	0.31	11.90	≤23.98	PASS
	Ant2	5290	11.12	90.91	0.41	11.53	≤23.98	PASS
	Ant3	5290	11.61	93.18	0.31	11.92	≤23.98	PASS
	Ant4	5290	14.37	91.11	0.40	14.77	≤23.98	PASS
	total	5290	---	---	---	18.76	≤23.07	PASS
	Ant1	5530	11.88	93.18	0.31	12.19	≤23.98	PASS
	Ant2	5530	11.79	90.91	0.41	12.20	≤23.98	PASS
	Ant3	5530	10.95	93.18	0.31	11.26	≤23.98	PASS
	Ant4	5530	13.79	91.11	0.40	14.19	≤23.98	PASS
	total	5530	---	---	---	18.62	≤23.98	PASS
	Ant1	5610	12.03	93.18	0.31	12.34	≤23.98	PASS
	Ant2	5610	10.81	90.91	0.41	11.22	≤23.98	PASS
	Ant3	5610	11.58	93.18	0.31	11.89	≤23.98	PASS
	Ant4	5610	13.05	91.11	0.40	13.45	≤23.98	PASS
	total	5610	---	---	---	18.32	≤23.07	PASS
	Ant1	5775	18.19	93.18	0.31	18.50	≤30.00	PASS
	Ant2	5775	17.09	90.91	0.41	17.50	≤30.00	PASS
	Ant3	5775	16.59	93.18	0.31	16.90	≤30.00	PASS
	Ant4	5775	18.97	91.11	0.40	19.37	≤30.00	PASS
	total	5775	---	---	---	24.19	≤29.09	PASS
11BE160MI MO	Ant1	5250_UNII -1	9.7	88.89	0.51	10.21	≤30.00	PASS
	Ant2	5250_UNII -1	9.7	88.89	0.51	10.21	≤30.00	PASS
	Ant3	5250_UNII	9.37	88.89	0.51	9.88	≤30.00	PASS

		-1						
	Ant4	5250_UNII -1	12.91	88.89	0.51	13.42	≤30.00	PASS
	total	5250_UNII -1	---	---	---	17.22	≤29.09	PASS
	Ant1	5250_UNII -2A	9.72	88.89	0.51	10.23	≤23.98	PASS
	Ant2	5250_UNII -2A	9.73	88.89	0.51	10.24	≤23.98	PASS
	Ant3	5250_UNII -2A	9.06	88.89	0.51	9.57	≤23.98	PASS
	Ant4	5250_UNII -2A	11.9	88.89	0.51	12.41	≤23.98	PASS
	total	5250_UNII -2A	---	---	---	16.77	≤23.07	PASS
	Ant1	5570	12.12	88.89	0.51	12.63	≤23.98	PASS
	Ant2	5570	12.21	88.89	0.51	12.72	≤23.98	PASS
	Ant3	5570	10.83	88.89	0.51	11.34	≤23.98	PASS
	Ant4	5570	13.02	88.89	0.51	13.53	≤23.98	PASS
	total	5570	---	---	---	18.64	≤23.07	PASS

Note: The Duty Cycle Factor is compensated in the test system

3.5 Power Spectral Density

3.5.1 Limit

FCC Part15, Subpart E (15.407)			
Section	Test Item	Limit	Frequency Range (MHz)
15.407(a)	Power Spectral Density	Master device: 17 dBm/MHz Client device: 11 dBm/MHz	5150-5250
		11 dBm/MHz	5250-5350
		11 dBm/MHz	5470-5725
		30 dBm/500 kHz	5725-5850

Note:

- For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add 10 log (500 kHz/300 kHz) to the measured result, i.e. 2.22 dB.
- During the test of U-NII 3 PSD, the measurement result with RBW=300kHz has been added 2.22 dB by compensating offset, offset=cable loss+duty factor+10log(500kHz/300kHz).

3.5.2 Test Procedure

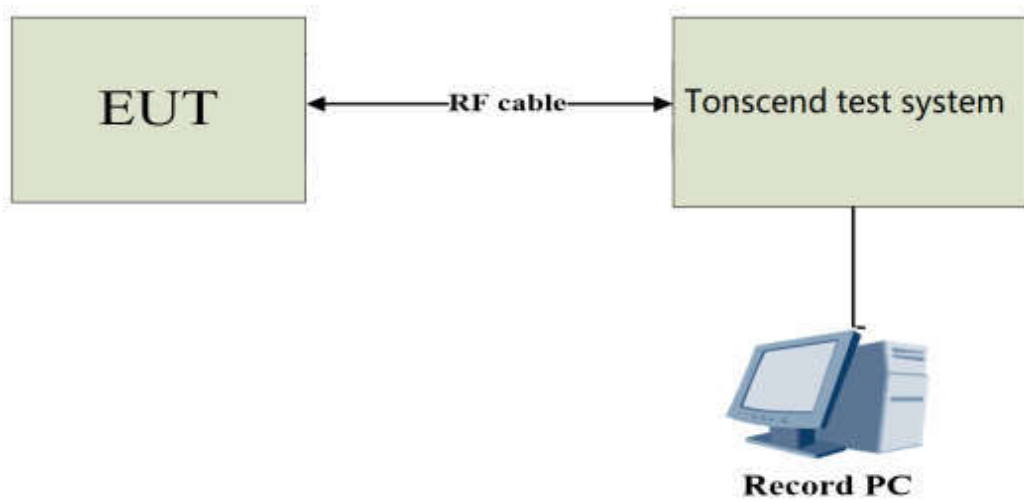
Test Method	
●Conducted Measurement	○Radiated Measurement
Test Channels	
●Lowest, Middle and Highest Channel	○ Lowest and Highest Channel
Environmental conditions	
●Normal	○Normal and Extreme
Note:●:Test ○:No Test	

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below. Spectrum analyser settings as following:

Centre Frequency	The centre frequency of the channel under test
RBW	= 1 MHz (Band1/2/3); = 500kHz (Band4)
VBW	≥3 x RBW
Frequency span	2 x Nominal Channel Bandwidth
Detector Mode	RMS
Trace Mode	Max Hold
Sweep Time	Auto Couple



3.5.3 Test Setup



3.5.4 The Result

No-beforming:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	9.94	≤17.00	PASS
	Ant2	5180	8.54	≤17.00	PASS
	Ant3	5180	10.94	≤17.00	PASS
	Ant4	5180	10.36	≤17.00	PASS
	total	5180	16.05	≤17.00	PASS
	Ant1	5200	10.62	≤17.00	PASS
	Ant2	5200	8.98	≤17.00	PASS
	Ant3	5200	11.27	≤17.00	PASS
	Ant4	5200	10.54	≤17.00	PASS
	total	5200	16.45	≤17.00	PASS
	Ant1	5240	10.50	≤17.00	PASS
	Ant2	5240	9.04	≤17.00	PASS
	Ant3	5240	11.06	≤17.00	PASS
	Ant4	5240	10.71	≤17.00	PASS
	total	5240	16.41	≤17.00	PASS
	Ant1	5260	3.42	≤11.00	PASS
	Ant2	5260	2.66	≤11.00	PASS
	Ant3	5260	3.88	≤11.00	PASS
	Ant4	5260	4.57	≤11.00	PASS
	total	5260	9.71	≤11.00	PASS
	Ant1	5280	3.08	≤11.00	PASS
	Ant2	5280	2.55	≤11.00	PASS
	Ant3	5280	4.09	≤11.00	PASS
	Ant4	5280	4.64	≤11.00	PASS
	total	5280	9.69	≤11.00	PASS
	Ant1	5320	3.39	≤11.00	PASS
	Ant2	5320	3.81	≤11.00	PASS
	Ant3	5320	4.32	≤11.00	PASS
	Ant4	5320	4.79	≤11.00	PASS
	total	5320	10.13	≤11.00	PASS
	Ant1	5500	3.91	≤11.00	PASS
	Ant2	5500	3.76	≤11.00	PASS
	Ant3	5500	4.87	≤11.00	PASS
	Ant4	5500	4.47	≤11.00	PASS
	total	5500	10.30	≤11.00	PASS
	Ant1	5580	4.08	≤11.00	PASS
	Ant2	5580	3.87	≤11.00	PASS
	Ant3	5580	4.56	≤11.00	PASS
	Ant4	5580	4.48	≤11.00	PASS

	total	5580	10.28	≤11.00	PASS
	Ant1	5700	3.49	≤11.00	PASS
	Ant2	5700	4.23	≤11.00	PASS
	Ant3	5700	4.82	≤11.00	PASS
	Ant4	5700	3.83	≤11.00	PASS
	total	5700	10.14	≤11.00	PASS
	Ant1	5745	9.85	≤30.00	PASS
	Ant2	5745	7.31	≤30.00	PASS
	Ant3	5745	7.62	≤30.00	PASS
	Ant4	5745	10.34	≤30.00	PASS
	total	5745	15.00	≤30.00	PASS
	Ant1	5785	9.81	≤30.00	PASS
	Ant2	5785	7.47	≤30.00	PASS
	Ant3	5785	6.90	≤30.00	PASS
	Ant4	5785	9.80	≤30.00	PASS
	total	5785	14.71	≤30.00	PASS
	Ant1	5825	9.08	≤30.00	PASS
	Ant2	5825	7.49	≤30.00	PASS
	Ant3	5825	6.66	≤30.00	PASS
	Ant4	5825	9.16	≤30.00	PASS
	total	5825	14.25	≤30.00	PASS
11BE20MIMO	Ant1	5180	10.24	≤17.00	PASS
	Ant2	5180	8.71	≤17.00	PASS
	Ant3	5180	11.07	≤17.00	PASS
	Ant4	5180	11.08	≤17.00	PASS
	total	5180	16.40	≤17.00	PASS
	Ant1	5200	10.42	≤17.00	PASS
	Ant2	5200	8.70	≤17.00	PASS
	Ant3	5200	11.66	≤17.00	PASS
	Ant4	5200	10.53	≤17.00	PASS
	total	5200	16.47	≤17.00	PASS
	Ant1	5240	10.59	≤17.00	PASS
	Ant2	5240	8.70	≤17.00	PASS
	Ant3	5240	11.30	≤17.00	PASS
	Ant4	5240	10.46	≤17.00	PASS
	total	5240	16.38	≤17.00	PASS
	Ant1	5260	3.79	≤11.00	PASS
	Ant2	5260	2.90	≤11.00	PASS
	Ant3	5260	4.44	≤11.00	PASS
	Ant4	5260	4.70	≤11.00	PASS
	total	5260	10.03	≤11.00	PASS
	Ant1	5280	3.90	≤11.00	PASS