

Applicant: <u>Lexiangzhe Technology (Shenzhen) Co., LTD</u>	
Case No. : <u>TH2406287-C01</u>	
EUT: <u>Wireless Transmitter & Receiver kit</u>	
M/N: <u>WTR21</u>	
Test Power Supply: <u>NA</u>	
Ambient Condition: <u>24.8</u> °C, <u>41</u> %RH, <u>101.325</u> kPa	
According Standard: ☒ ; ☐ other:	
Test Date: <u>2024.07.10</u>	Test Engineer: <u>Blue</u>

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	20.240	5734.960	5755.200	---	---
		5785	20.120	5774.880	5795.000	---	---
		5825	20.520	5814.600	5835.120	---	---
11N20SISO	Ant1	5745	21.120	5734.360	5755.480	---	---
		5785	20.960	5774.480	5795.440	---	---
		5825	20.840	5814.440	5835.280	---	---

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



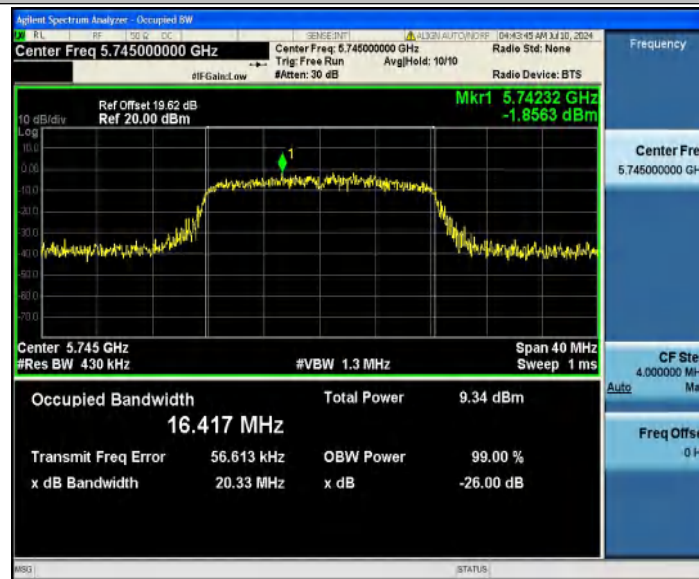
Appendix A2: Occupied channel bandwidth

Test Result

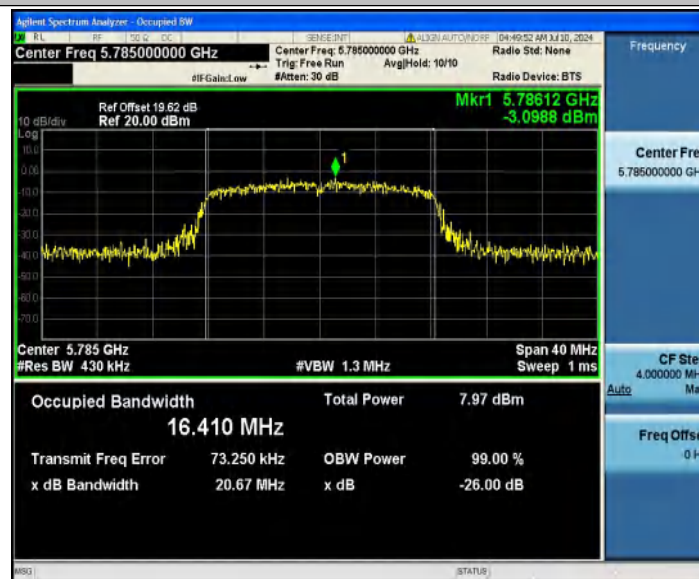
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.417	5736.8481	5753.2651	---	---
		5785	16.410	5776.8683	5793.2783	---	---
		5825	16.448	5816.8453	5833.2933	---	---
11N20SISO	Ant1	5745	17.534	5736.2671	5753.8011	---	---
		5785	17.562	5776.2643	5793.8263	---	---
		5825	17.533	5816.3154	5833.8484	---	---

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



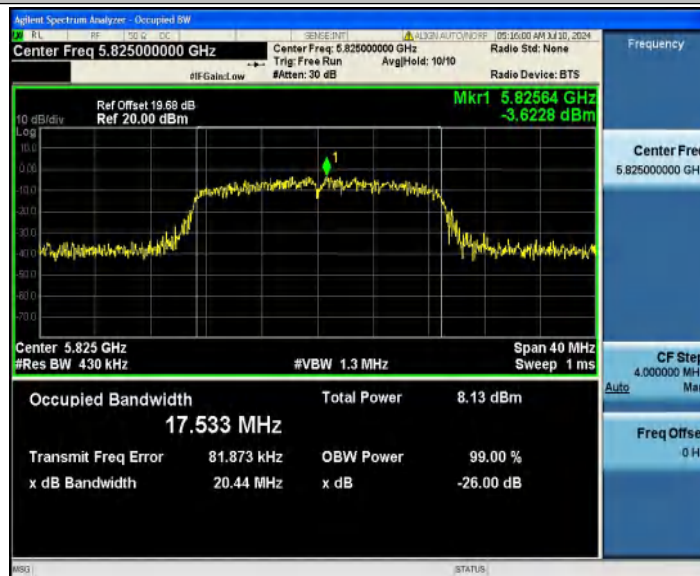
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	13.840	5738.720	5752.560	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.280	5737.480	5752.760	0.5	PASS
		5785	14.040	5777.480	5791.520	0.5	PASS
		5825	15.040	5817.480	5832.520	0.5	PASS

Test Graphs B4

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



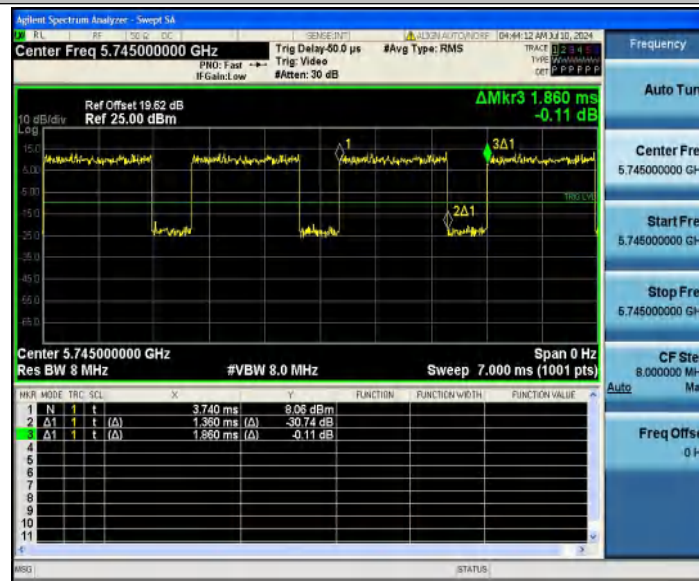
Appendix B: Duty Cycle

Test Result

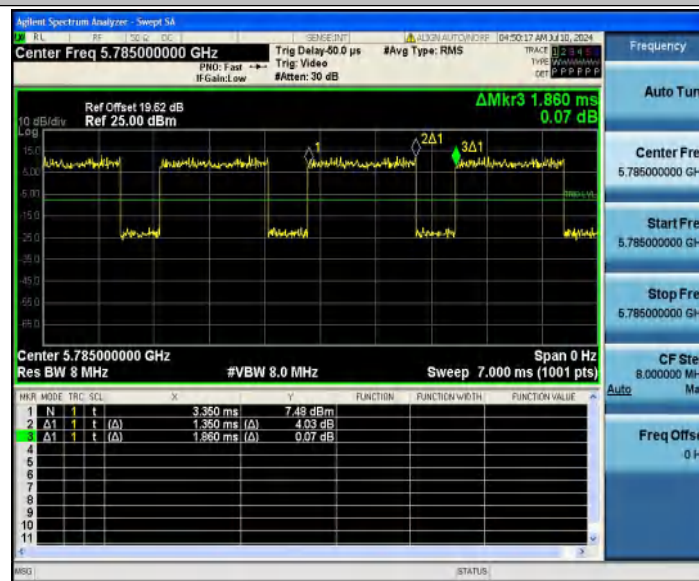
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	DC Factor [dBm]
11A	Ant1	5745	1.36	1.86	73.12	---	1.36
		5785	1.35	1.86	72.58	---	1.39
		5825	1.35	1.86	72.58	---	1.39
11N20SISO	Ant1	5745	1.27	1.78	71.35	---	1.47
		5785	1.27	1.77	71.75	---	1.44
		5825	1.28	1.78	71.91	---	1.43

Test Graphs

11A_Ant1_5745



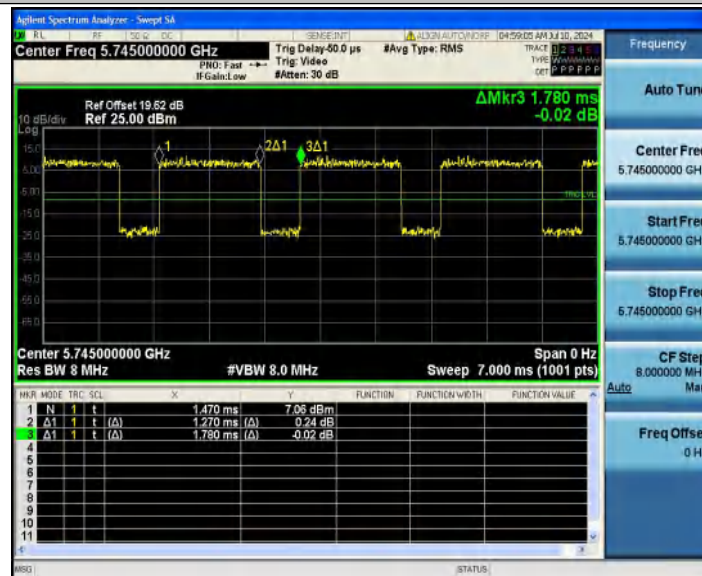
11A_Ant1_5785



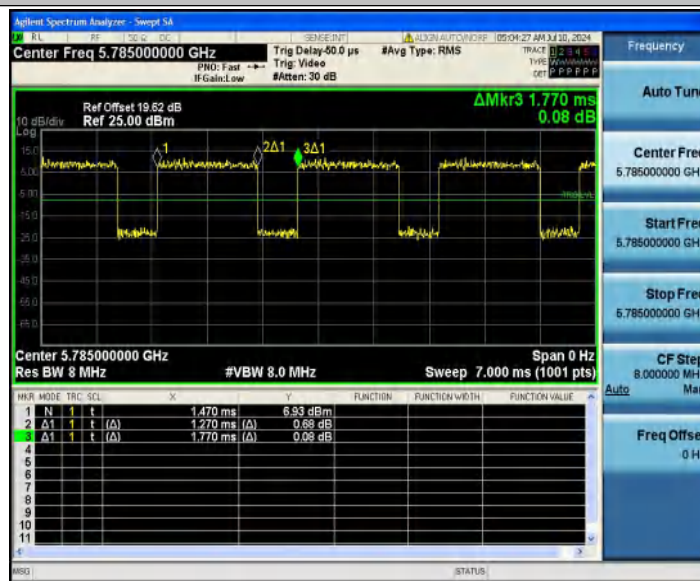
11A_Ant1_5825



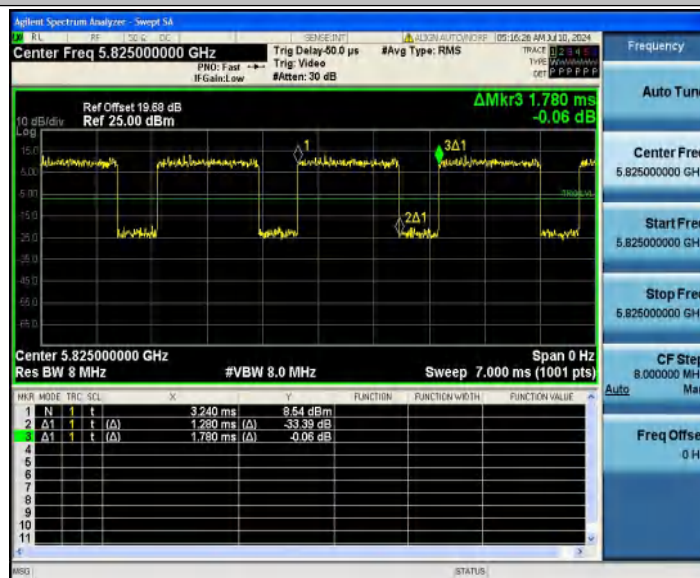
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Channel	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	---	4.97	73.12	1.36	6.33	≤30.00	PASS
		5785	---	4.48	72.58	1.39	5.87	≤30.00	PASS
		5825	---	5.22	72.58	1.39	6.61	≤30.00	PASS
11N20SI SO	Ant1	5745	---	3.81	71.35	1.47	5.28	≤30.00	PASS
		5785	---	4.31	71.75	1.44	5.75	≤30.00	PASS
		5825	---	5.03	71.91	1.43	6.46	≤30.00	PASS

Test Graphs Channel Power

11A_Ant1_5745



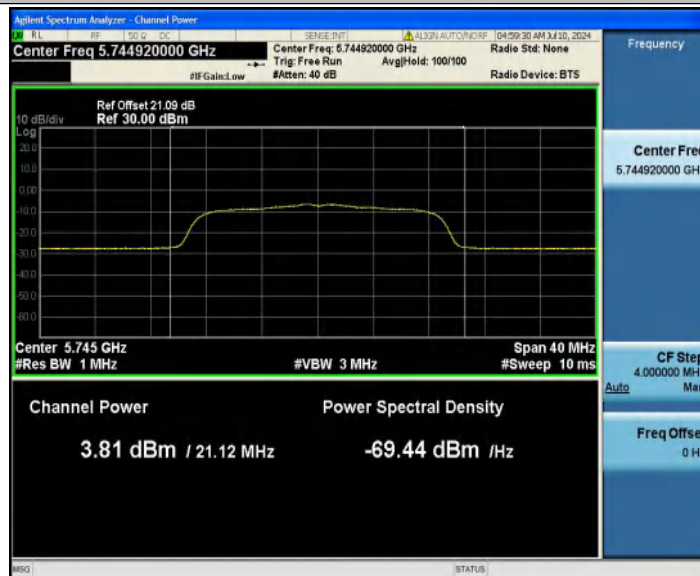
11A_Ant1_5785



11A_Ant1_5825



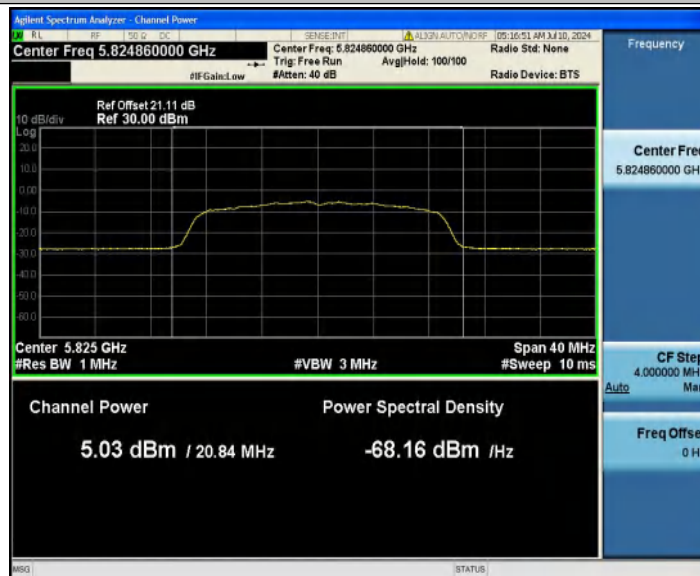
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-8.07	≤30.00	PASS
		5785	-8.57	≤30.00	PASS
		5825	-7.8	≤30.00	PASS
11N20SISO	Ant1	5745	-8.68	≤30.00	PASS
		5785	-8.89	≤30.00	PASS
		5825	-8.17	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



Appendix E: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-34.45	≤-26.53	PASS
				5700~5720	-35.37	≤12.05	PASS
				5720~5725	-36.41	≤23.16	PASS
				5760~5650	-34.45	≤-27	PASS
		High	5825	5850~5855	-35.66	≤22.26	PASS
				5855~5875	-34.5	≤12.52	PASS
				5875~5925	-35.24	≤5.71	PASS
				5925~5935	-36.07	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-34.25	≤-21.25	PASS
				5700~5720	-35.64	≤11.67	PASS
				5720~5725	-36.19	≤16.60	PASS
				5760~5650	-34.13	≤-27	PASS
		High	5825	5850~5855	-36.25	≤22.57	PASS
				5855~5875	-35.13	≤14.33	PASS
				5875~5925	-35	≤-7.18	PASS
				5925~5935	-35.86	≤-27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	3697.05	-35.48	≤ -27	PASS
			5925~40000	36556.15	-28.74	≤ -27	PASS
		5785	30~5650	3714.47	-35.1	≤ -27	PASS
			5925~40000	36079.1	-29.72	≤ -27	PASS
		5825	30~5650	3720.09	-34.9	≤ -27	PASS
			5925~40000	36133.62	-29.52	≤ -27	PASS
11N20SISO	Ant1	5745	30~5650	3634.29	-35	≤ -27	PASS
			5925~40000	36204.05	-28.35	≤ -27	PASS
		5785	30~5650	3690.31	-34.45	≤ -27	PASS
			5925~40000	39911.41	-29.06	≤ -27	PASS
		5825	30~5650	3638.04	-35.73	≤ -27	PASS
			5925~40000	36146.12	-28.11	≤ -27	PASS

Test Graphs

11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~40000



11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



11N20SISO_Ant1_5745_5925~40000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000

