Power Spectral Density

5150-5250MHz

FCC

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	-0.35	0.30	-0.05	17	Pass
	5200	-0.67	0.30	-0.37	17	Pass
	5240	-0.92	0.30	-0.62	17	Pass
802.11ac20	5180	-0.66	0.32	-0.34	17	Pass
	5200	-0.96	0.32	-0.64	17	Pass
	5240	-1.35	0.32	-1.03	17	Pass
802.11ac40	5190	-6.50	0.62	-5.88	17	Pass
	5230	-6.87	0.62	-6.25	17	Pass
802.11ac80	5210	-10.08	1.18	-8.9	17	Pass
802.11ax20_RU_Full	5180	-1.87	0.41	-1.46	17	Pass
	5200	-1.62	0.41	-1.21	17	Pass
	5240	-2.36	0.41	-1.95	17	Pass
802.11ax40_RU_Full	5190	-6.36	0.74	-5.62	17	Pass
	5230	-6.90	0.74	-6.16	17	Pass
802.11ax80_RU_Full	5210	-10.11	1.30	-8.81	17	Pass

IC

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Antenna Gain (dBi/MHz)	EIRP (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	-0.35	0.30	-0.05	4.95	4.90	10	Pass
	5200	-0.67	0.30	-0.37	4.95	4.58	10	Pass
	5240	-0.92	0.30	-0.62	4.95	4.33	10	Pass
802.11ac20	5180	-0.66	0.32	-0.34	4.95	4.61	10	Pass
	5200	-0.96	0.32	-0.64	4.95	4.31	10	Pass
	5240	-1.35	0.32	-1.03	4.95	3.92	10	Pass
802.11ac40	5190	-6.50	0.62	-5.88	4.95	-0.93	10	Pass
	5230	-6.87	0.62	-6.25	4.95	-1.30	10	Pass
802.11ac80	5210	-10.08	1.18	-8.9	4.95	-3.95	10	Pass
802.11ax20_RU_Full	5180	-1.87	0.41	-1.46	4.95	3.49	10	Pass
	5200	-1.62	0.41	-1.21	4.95	3.74	10	Pass
	5240	-2.36	0.41	-1.95	4.95	3.00	10	Pass
802.11ax40_RU_Full	5190	-6.36	0.74	-5.62	4.95	-0.67	10	Pass
	5230	-6.90	0.74	-6.16	4.95	-1.21	10	Pass
802.11ax80_RU_Full	5210	-10.11	1.30	-8.81	4.95	-3.86	10	Pass

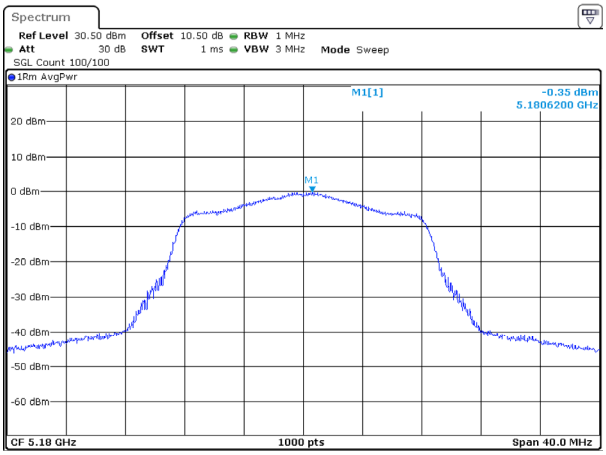
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-3.89	0.30	-3.59	30	Pass
	5785	-3.70	0.30	-3.4	30	Pass
	5825	-3.77	0.30	-3.47	30	Pass
802.11ac20	5745	-4.04	0.32	-3.72	30	Pass
	5785	-4.13	0.32	-3.81	30	Pass
	5825	-4.01	0.32	-3.69	30	Pass
802.11ac40	5755	-10.57	0.62	-9.95	30	Pass
	5795	-10.53	0.62	-9.91	30	Pass
802.11ac80	5775	-13.93	1.18	-12.75	30	Pass
802.11ax20_RU_Full	5745	-5.62	0.41	-5.21	30	Pass
	5785	-5.95	0.41	-5.54	30	Pass
	5825	-6.04	0.41	-5.63	30	Pass
802.11ax40_RU_Full	5755	-10.28	0.74	-9.54	30	Pass
	5795	-10.06	0.74	-9.32	30	Pass
802.11ax80_RU_Full	5775	-13.46	1.30	-12.16	30	Pass

Result = Reading + Duty Cycle Factor

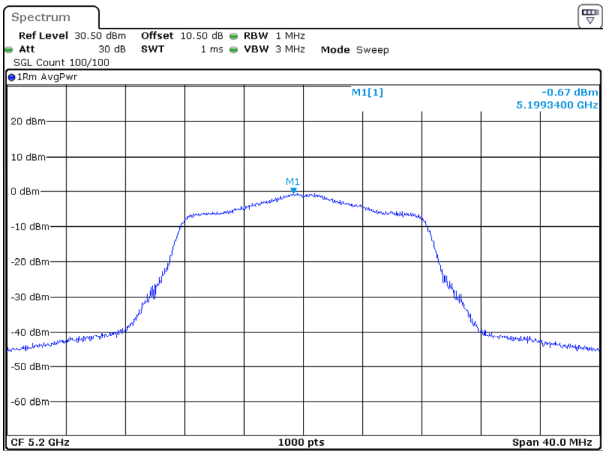
5150-5250MHz

802.11a_5180MHz



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 10:00:25

802.11a_5200MHz



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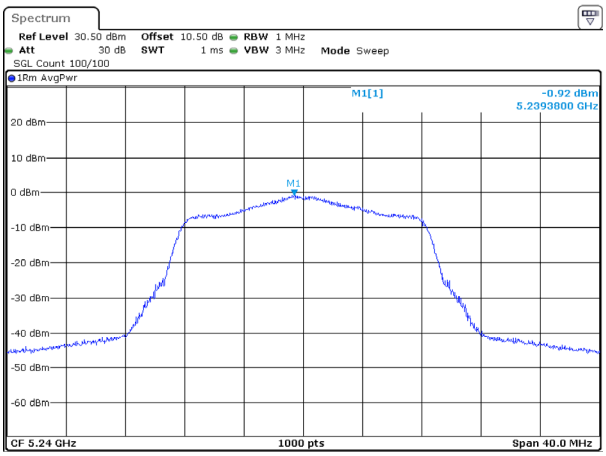
Date: 21.FEB.2025 10:03:58

802.11a_5240MHz



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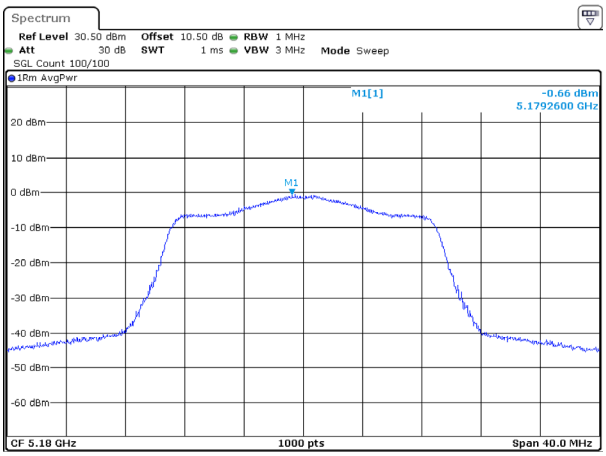
Date: 21.FEB.2025 10:06:14

802.11ac20_5180MHz



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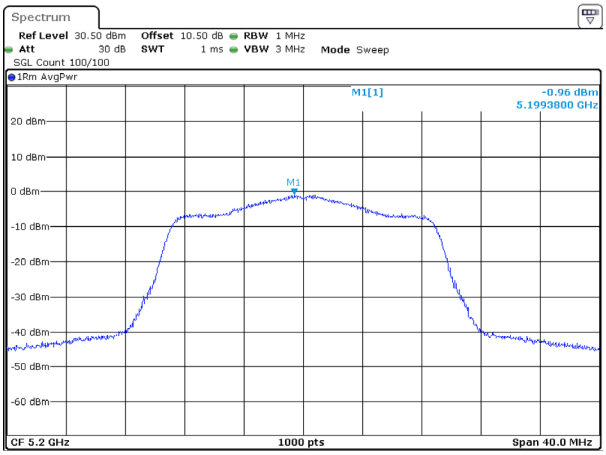
Date: 21.FEB.2025 10:09:33

802.11ac20_5200MHz



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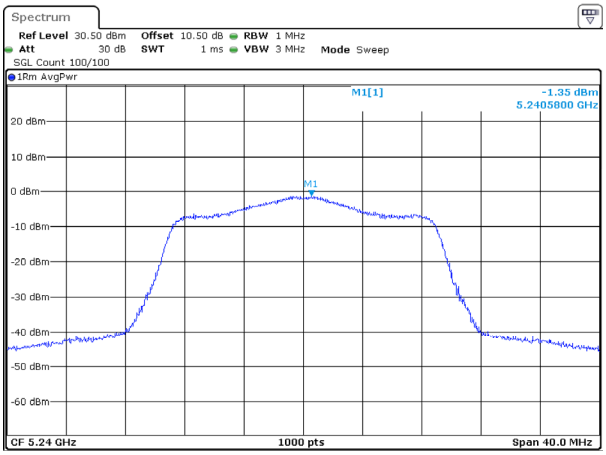
Date: 21.FEB.2025 10:11:27

802.11ac20_5240MHz



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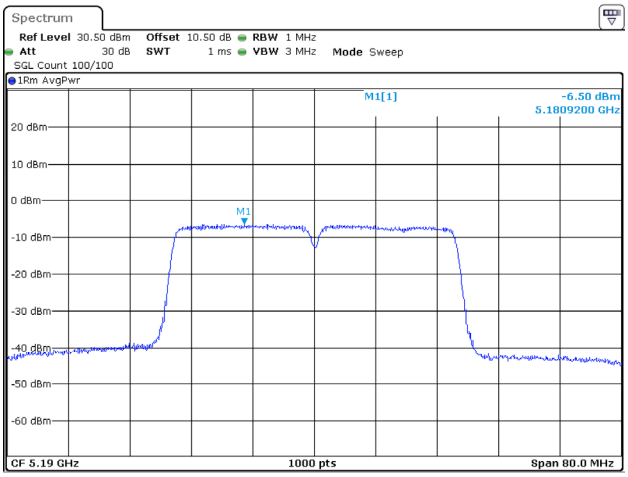
Date: 21.FEB.2025 10:27:16

802.11ac40_5190MHz



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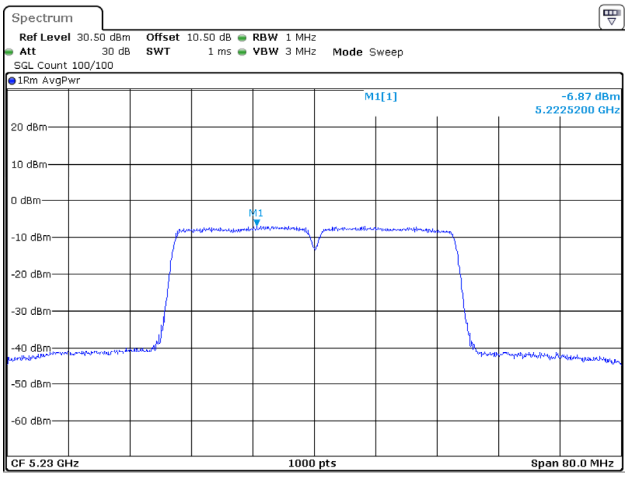
Date: 21.FEB.2025 10:30:59

802.11ac40_5230MHz



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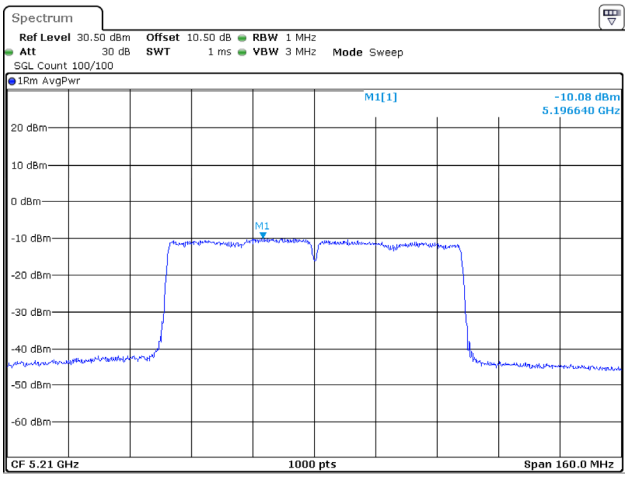
Date: 21.FEB.2025 10:34:26

802.11ac80_5210MHz



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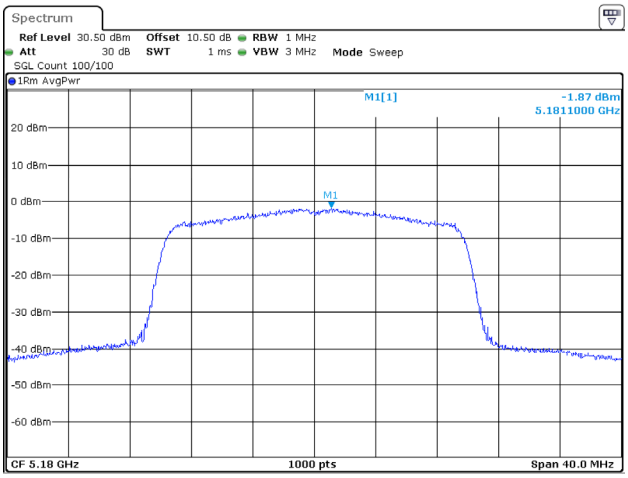
Date: 21.FEB.2025 10:40:42

802.11ax20_5180MHz_RU_Full



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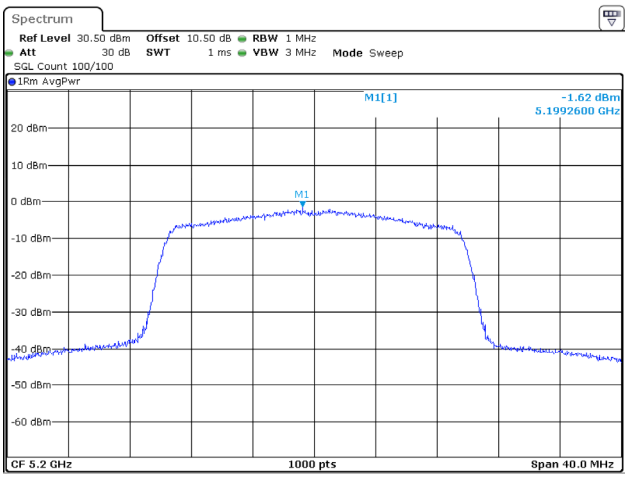
Date: 21.FEB.2025 10:44:51

802.11ax20_5200MHz_RU_Full



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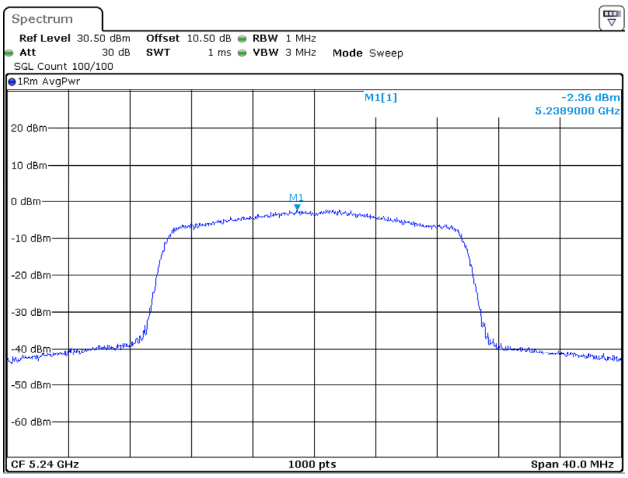
Date: 21.FEB.2025 10:49:21

802.11ax20_5240MHz_RU_Full



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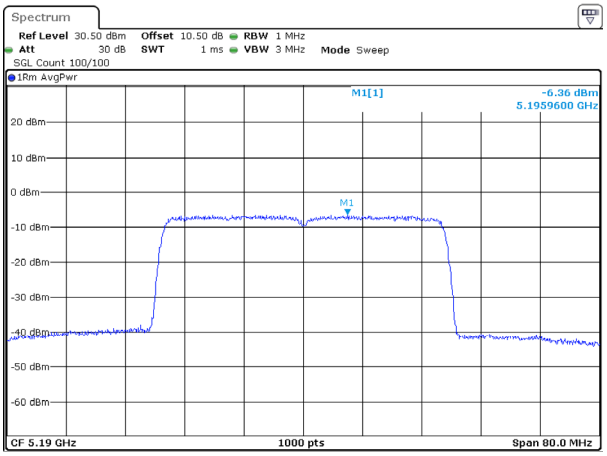
Date: 21.FEB.2025 11:02:32

802.11ax40_5190MHz_RU_Full



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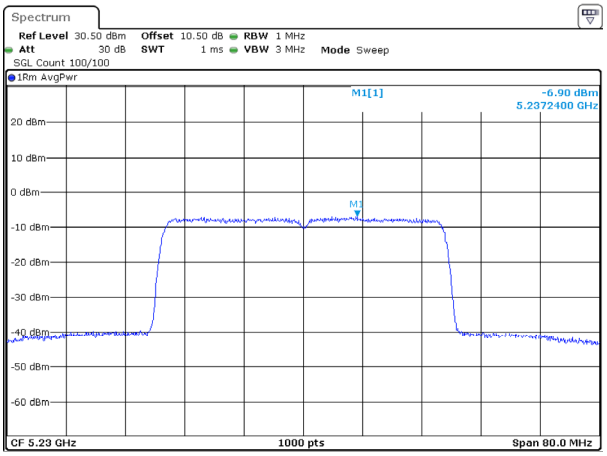
Date: 21.FEB.2025 11:06:35

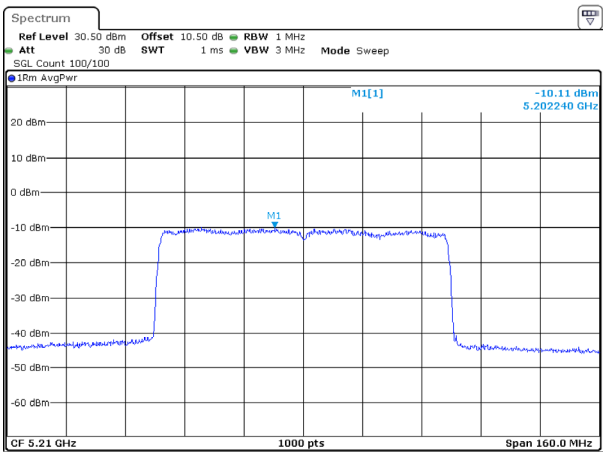
802.11ax40_5230MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:10:02

5725-5850MHz

802.11ax80_5210MHz_RU_Full



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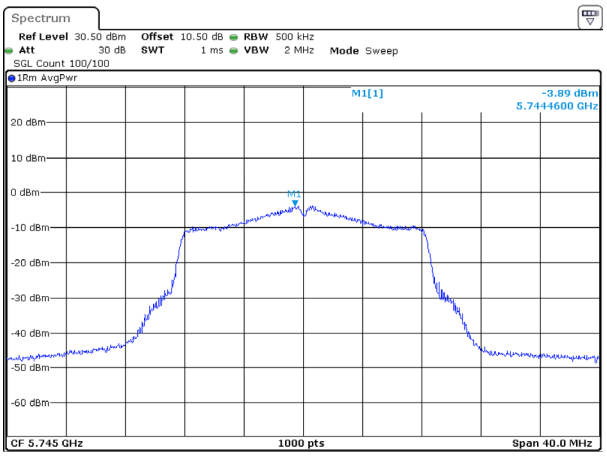
Date: 21.FEB.2025 11:13:36

802.11a_5745MHz



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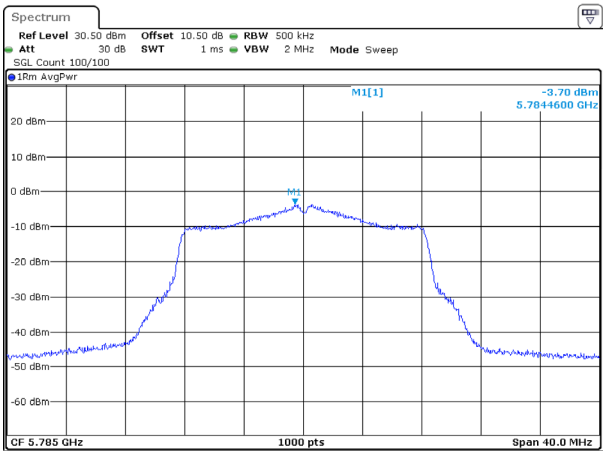
Date: 21.FEB.2025 11:21:41

802.11a_5785MHz



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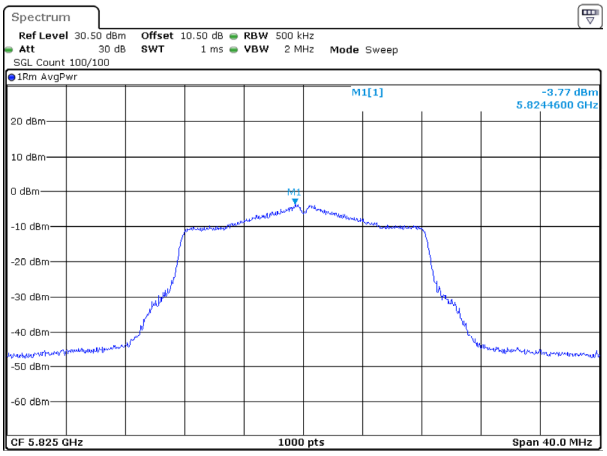
Date: 21.FEB.2025 11:24:06

802.11a_5825MHz



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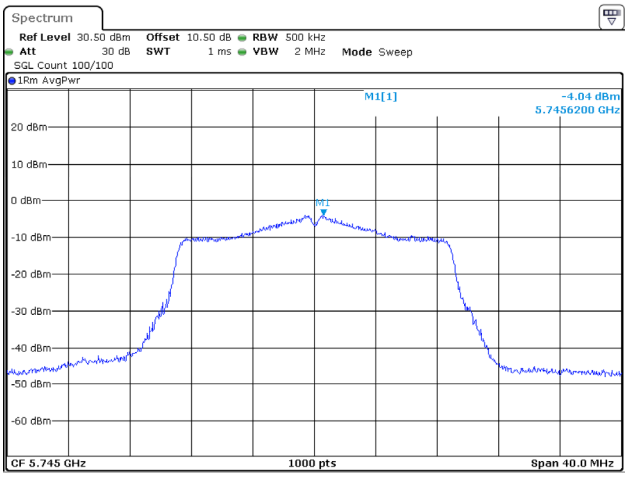
Date: 21.FEB.2025 11:25:55

802.11ac20_5745MHz



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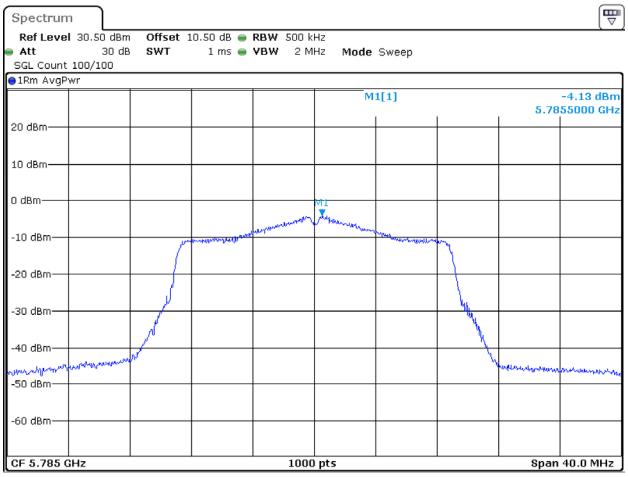
Date: 21.FEB.2025 11:28:33

802.11ac20_5785MHz



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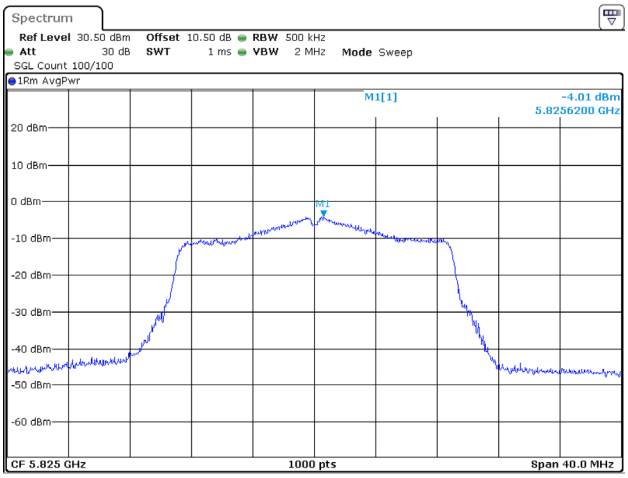
Date: 21.FEB.2025 11:31:37

802.11ac20_5825MHz



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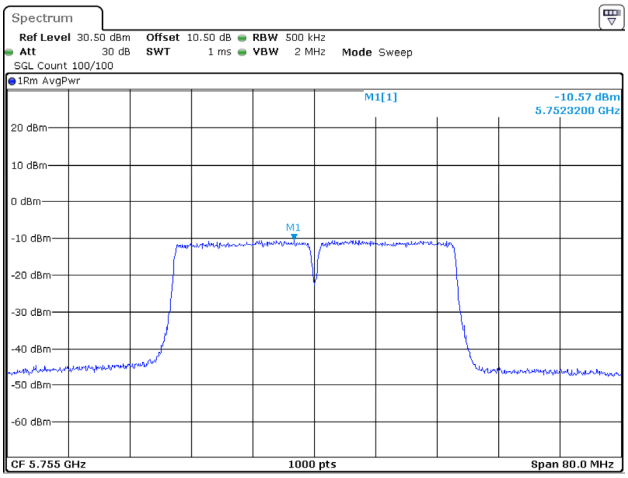
Date: 21.FEB.2025 11:33:32

802.11ac40_5755MHz



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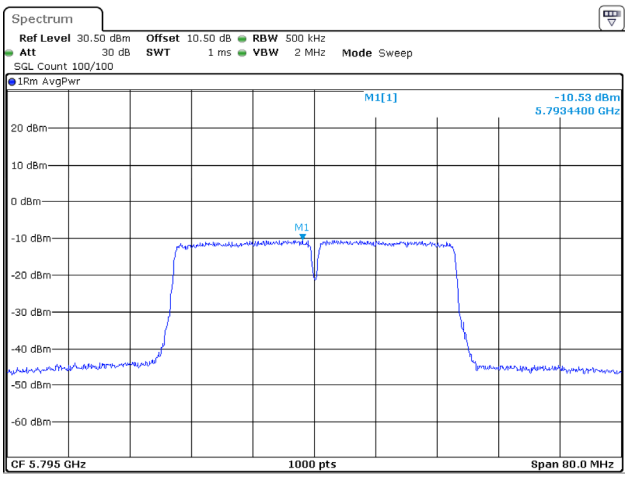
Date: 21.FEB.2025 11:43:48

802.11ac40_5795MHz



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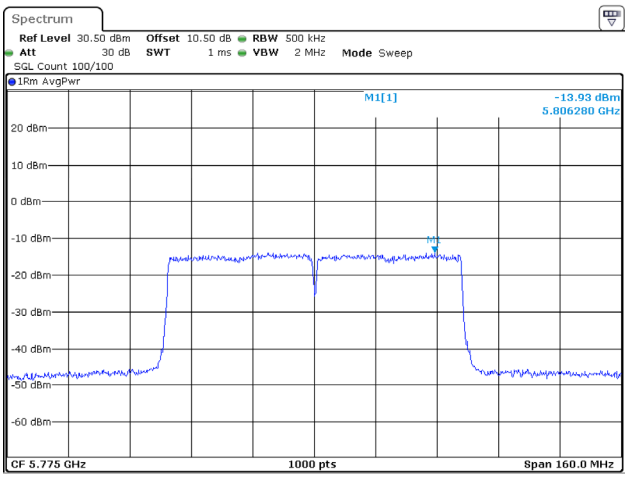
Date: 21.FEB.2025 11:45:02

802.11ac80_5775MHz



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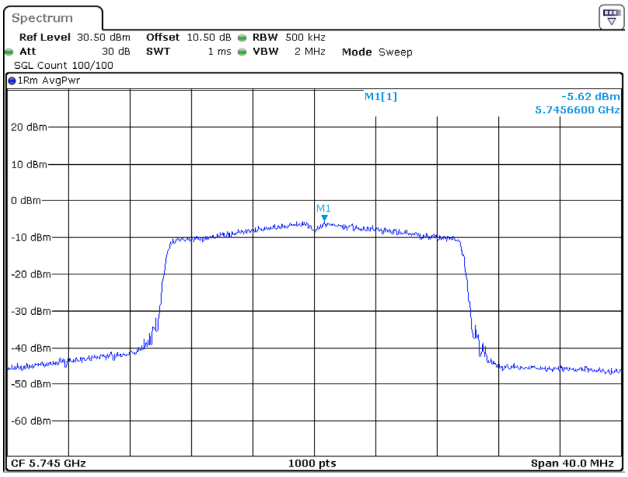
Date: 21.FEB.2025 11:46:40

802.11ax20_5745MHz_RU_Full



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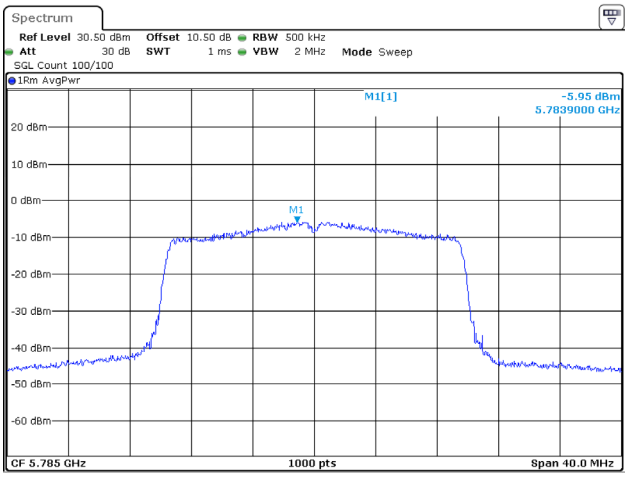
Date: 21.FEB.2025 11:49:09

802.11ax20_5785MHz_RU_Full



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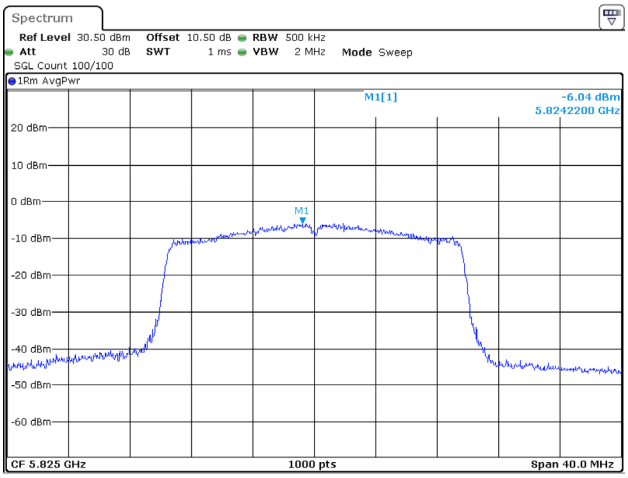
Date: 21.FEB.2025 11:51:38

802.11ax20_5825MHz_RU_Full



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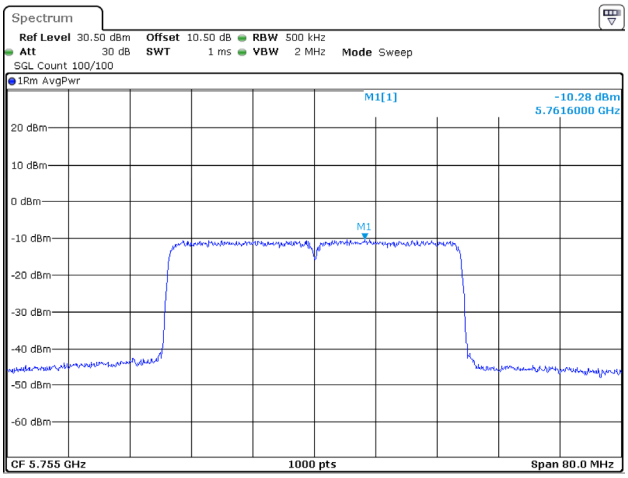
Date: 21.FEB.2025 11:53:32

802.11ax40_5755MHz_RU_Full



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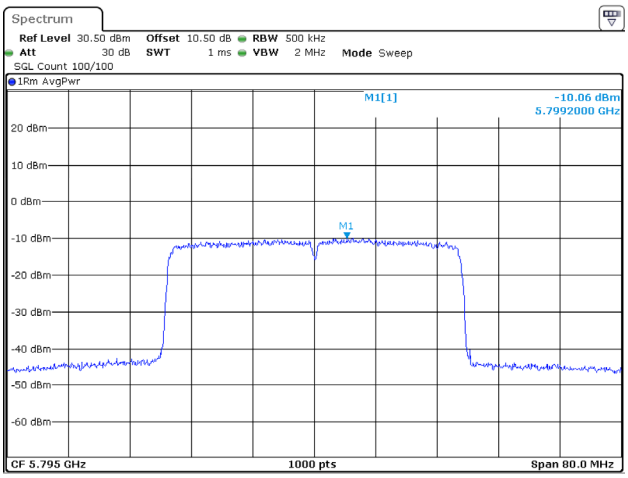
Date: 21.FEB.2025 11:54:56

802.11ax40_5795MHz_RU_Full



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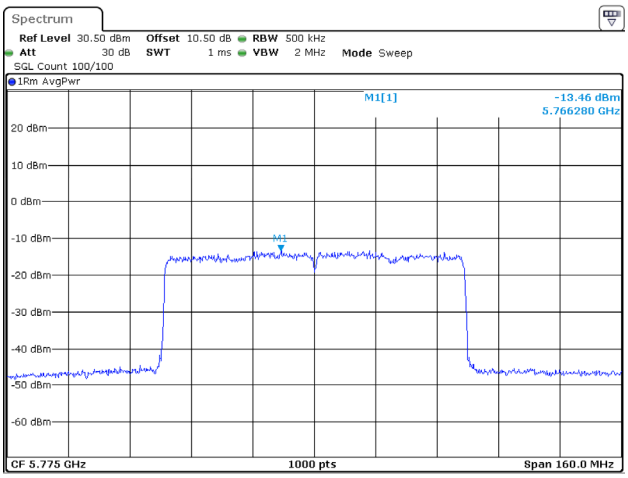
Date: 21.FEB.2025 11:56:14

802.11ax80_5775MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:57:59

Duty Cycle

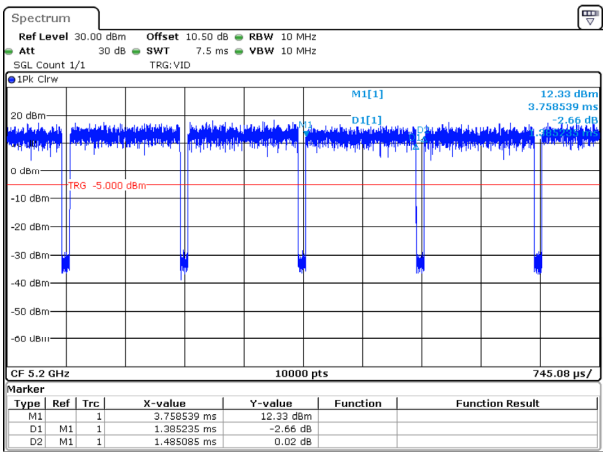
5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	**1.385**	1.485	93.27	0.30	722	1
802.11ac20	5200	1.313	1.413	92.92	0.32	762	1
802.11ac40	5190	0.642	0.741	86.64	0.62	1558	2
802.11ac80	5210	0.323	0.424	76.18	1.18	3096	5
802.11ax20_RU_Full	5200	1.006	1.105	91.04	0.41	994	1
802.11ax40_RU_Full	5190	0.540	0.640	84.38	0.74	1852	2
802.11ax80_RU_Full	5210	0.290	0.391	74.17	1.30	3448	5

Duty Cycle = Ton/(Ton+Toff)*100%

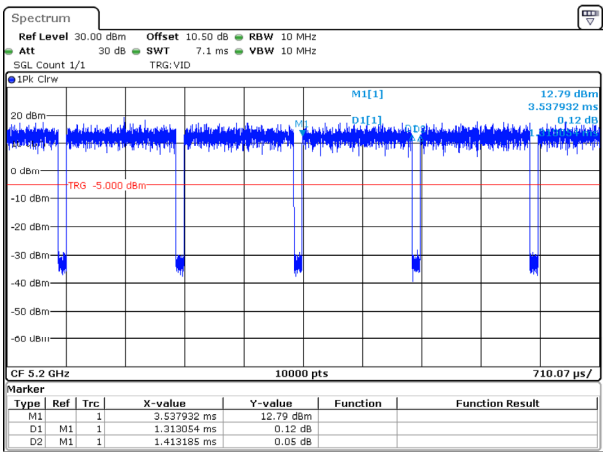
5150-5250MHz

802.11a_5200MHz



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:21:16

802.11ac20_5200MHz



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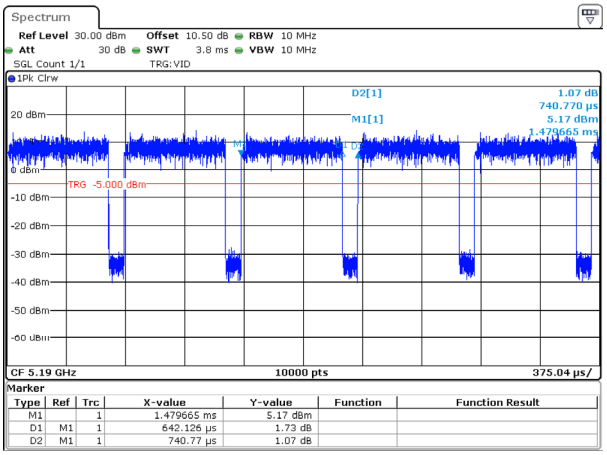
Date: 23.MAY.2025 13:24:29

802.11ac40_5190MHz



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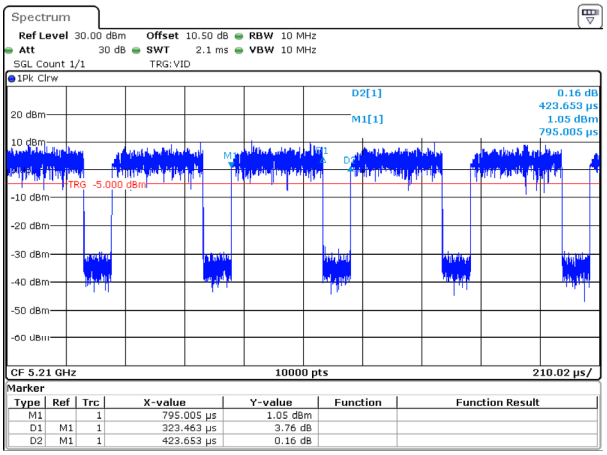
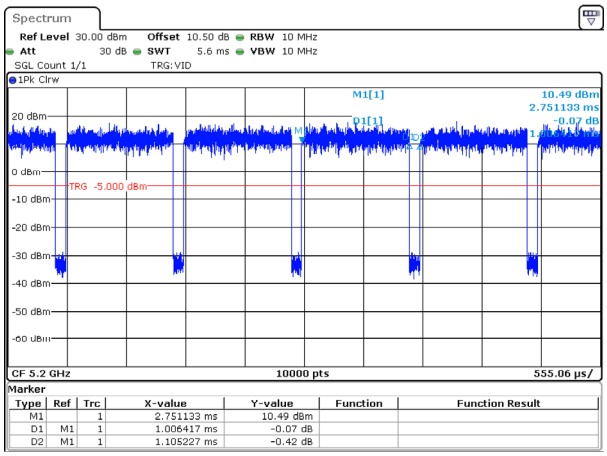
Date: 23.MAY.2025 13:45:46

802.11ac80_5210MHz



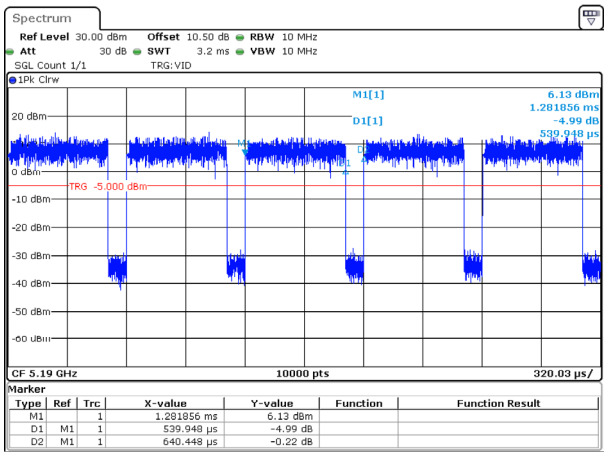
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:49:19

802.11ax20_5200MHz_RU_Full



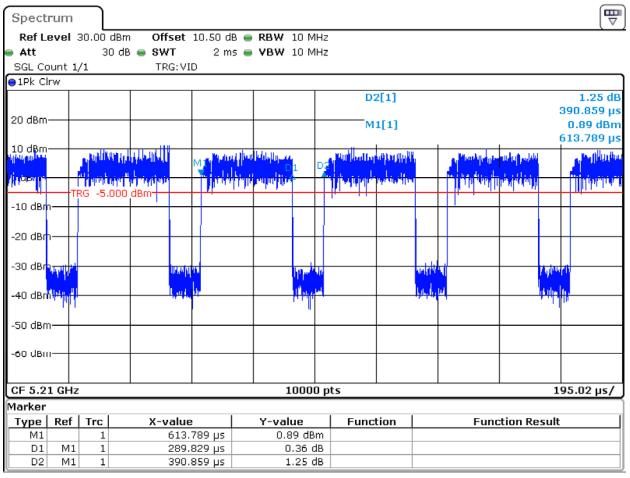
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:32:52

802.11ax40_5190MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:50:15

802.11ax80_5210MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 23.MAY.2025 13:52:06

Frequency Stability

5150-5250 MHz

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (℃)	Voltage (V_{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11a	-20	138	5172.010	5150.0000	5248.424	5250.0000
	20	138	5171.910	5150.0000	5248.320	5250.0000
	50	138	5171.850	5150.0000	5248.391	5250.0000
	-20	120	5171.997	5150.0000	5248.226	5250.0000
	20	120	5171.825	5150.0000	5248.850	5250.0000
	50	120	5171.845	5150.0000	5248.411	5250.0000
	-20	102	5171.878	5150.0000	5248.362	5250.0000
	20	102	5171.966	5150.0000	5248.273	5250.0000
	50	102	5172.022	5150.0000	5248.239	5250.0000
802.11ac20	-20	138	5171.317	5150.0000	5248.942	5250.0000
	20	138	5171.352	5150.0000	5248.820	5250.0000
	50	138	5171.413	5150.0000	5248.827	5250.0000
	-20	120	5171.457	5150.0000	5248.837	5250.0000
	20	120	5171.275	5150.0000	5248.850	5250.0000
	50	120	5171.461	5150.0000	5248.791	5250.0000
	-20	102	5171.457	5150.0000	5248.783	5250.0000
	20	102	5171.353	5150.0000	5248.953	5250.0000
	50	102	5171.297	5150.0000	5248.961	5250.0000
802.11ax20	-20	138	5170.671	5150.0000	5249.665	5250.0000
	20	138	5170.558	5150.0000	5249.538	5250.0000
	50	138	5170.698	5150.0000	5249.578	5250.0000
	-20	120	5170.571	5150.0000	5249.475	5250.0000
	20	120	5170.525	5150.0000	5248.850	5250.0000
	50	120	5170.600	5150.0000	5249.527	5250.0000
	-20	102	5170.624	5150.0000	5249.631	5250.0000
	20	102	5170.539	5150.0000	5249.570	5250.0000
	50	102	5170.658	5150.0000	5249.503	5250.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (℃)	Voltage (V_{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac40	-20	138	5171.862	5150.0000	5248.473	5250.0000
	20	138	5171.765	5150.0000	5248.369	5250.0000
	50	138	5171.864	5150.0000	5248.425	5250.0000
	-20	120	5171.870	5150.0000	5248.546	5250.0000
	20	120	5171.750	5150.0000	5248.850	5250.0000
	50	120	5171.771	5150.0000	5248.361	5250.0000
	-20	102	5171.829	5150.0000	5248.396	5250.0000
	20	102	5171.874	5150.0000	5248.402	5250.0000
	50	102	5171.832	5150.0000	5248.458	5250.0000
802.11ax40	-20	138	5171.388	5150.0000	5248.988	5250.0000
	20	138	5171.448	5150.0000	5248.924	5250.0000
	50	138	5171.437	5150.0000	5248.857	5250.0000
	-20	120	5171.379	5150.0000	5248.865	5250.0000
	20	120	5171.250	5150.0000	5248.850	5250.0000
	50	120	5171.308	5150.0000	5248.862	5250.0000
	-20	102	5171.348	5150.0000	5248.999	5250.0000
	20	102	5171.381	5150.0000	5249.003	5250.0000
	50	102	5171.353	5150.0000	5248.852	5250.0000
802.11ac80	-20	138	5172.227	5150.0000	5248.274	5250.0000
	20	138	5172.150	5150.0000	5248.242	5250.0000
	50	138	5172.107	5150.0000	5248.128	5250.0000
	-20	120	5172.145	5150.0000	5248.158	5250.0000
	20	120	5172.100	5150.0000	5248.850	5250.0000
	50	120	5172.235	5150.0000	5248.136	5250.0000
	-20	102	5172.139	5150.0000	5248.156	5250.0000
	20	102	5172.108	5150.0000	5248.207	5250.0000
	50	102	5172.248	5150.0000	5248.276	5250.0000
802.11ax80	-20	138	5171.437	5150.0000	5248.783	5250.0000
	20	138	5171.435	5150.0000	5248.877	5250.0000
	50	138	5171.432	5150.0000	5248.843	5250.0000
	-20	120	5171.414	5150.0000	5248.743	5250.0000
	20	120	5171.300	5150.0000	5248.850	5250.0000
	50	120	5171.370	5150.0000	5248.747	5250.0000
	-20	102	5171.437	5150.0000	5248.734	5250.0000
	20	102	5171.421	5150.0000	5248.821	5250.0000
	50	102	5171.347	5150.0000	5248.840	5250.0000

5725-5850MHz

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (℃)	Voltage (V_{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11a	-20	138	5736.992	5725.0000	5833.302	5850.0000
	20	138	5736.842	5725.0000	5833.257	5850.0000
	50	138	5736.895	5725.0000	5833.365	5850.0000
	-20	120	5737.025	5725.0000	5833.311	5850.0000
	20	120	5736.825	5725.0000	5833.317	5850.0000
	50	120	5736.992	5725.0000	5833.280	5850.0000
	-20	102	5737.010	5725.0000	5833.403	5850.0000
	20	102	5736.899	5725.0000	5833.250	5850.0000
	50	102	5736.855	5725.0000	5833.374	5850.0000
802.11ac20	-20	138	5736.300	5725.0000	5833.893	5850.0000
	20	138	5736.329	5725.0000	5833.829	5850.0000
	50	138	5736.473	5725.0000	5833.949	5850.0000
	-20	120	5736.382	5725.0000	5833.871	5850.0000
	20	120	5736.275	5725.0000	5833.877	5850.0000
	50	120	5736.283	5725.0000	5833.884	5850.0000
	-20	102	5736.425	5725.0000	5833.950	5850.0000
	20	102	5736.275	5725.0000	5833.984	5850.0000
	50	102	5736.411	5725.0000	5833.916	5850.0000
802.11ax20	-20	138	5735.723	5725.0000	5834.632	5850.0000
	20	138	5735.576	5725.0000	5834.605	5850.0000
	50	138	5735.650	5725.0000	5834.532	5850.0000
	-20	120	5735.719	5725.0000	5834.619	5850.0000
	20	120	5735.575	5725.0000	5834.617	5850.0000
	50	120	5735.714	5725.0000	5834.502	5850.0000
	-20	102	5735.701	5725.0000	5834.669	5850.0000
	20	102	5735.772	5725.0000	5834.540	5850.0000
	50	102	5735.700	5725.0000	5834.507	5850.0000

Test Channel: Lowest for Lower Edge, Highest for Upper Edge						
Test mode	Temperature (℃)	Voltage (V_{AC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
802.11ac40	-20	138	5736.790	5725.0000	5813.380	5850.0000
	20	138	5736.858	5725.0000	5813.474	5850.0000
	50	138	5736.785	5725.0000	5813.360	5850.0000
	-20	120	5736.814	5725.0000	5813.416	5850.0000
	20	120	5736.750	5725.0000	5813.417	5850.0000
	50	120	5736.835	5725.0000	5813.426	5850.0000
	-20	102	5736.803	5725.0000	5813.476	5850.0000
	20	102	5736.936	5725.0000	5813.369	5850.0000
	50	102	5736.777	5725.0000	5813.366	5850.0000
802.11ax40	-20	138	5736.433	5725.0000	5813.872	5850.0000
	20	138	5736.283	5725.0000	5814.014	5850.0000
	50	138	5736.299	5725.0000	5813.854	5850.0000
	-20	120	5736.344	5725.0000	5814.023	5850.0000
	20	120	5736.250	5725.0000	5813.817	5850.0000
	50	120	5736.443	5725.0000	5813.956	5850.0000
	-20	102	5736.406	5725.0000	5813.897	5850.0000
	20	102	5736.341	5725.0000	5813.936	5850.0000
	50	102	5736.262	5725.0000	5814.016	5850.0000
802.11ac80	-20	138	5737.196	5725.0000	5813.480	5850.0000
	20	138	5737.272	5725.0000	5813.339	5850.0000
	50	138	5737.231	5725.0000	5813.498	5850.0000
	-20	120	5737.184	5725.0000	5813.426	5850.0000
	20	120	5737.100	5725.0000	5813.428	5850.0000
	50	120	5737.259	5725.0000	5813.400	5850.0000
	-20	102	5737.147	5725.0000	5813.494	5850.0000
	20	102	5737.221	5725.0000	5813.457	5850.0000
	50	102	5737.111	5725.0000	5813.340	5850.0000
802.11ax80	-20	138	5736.656	5725.0000	5814.065	5850.0000
	20	138	5736.619	5725.0000	5814.053	5850.0000
	50	138	5736.578	5725.0000	5813.976	5850.0000
	-20	120	5736.543	5725.0000	5813.983	5850.0000
	20	120	5736.500	5725.0000	5813.942	5850.0000
	50	120	5736.645	5725.0000	5813.930	5850.0000
	-20	102	5736.635	5725.0000	5814.015	5850.0000
	20	102	5736.612	5725.0000	5814.079	5850.0000
	50	102	5736.583	5725.0000	5814.098	5850.0000