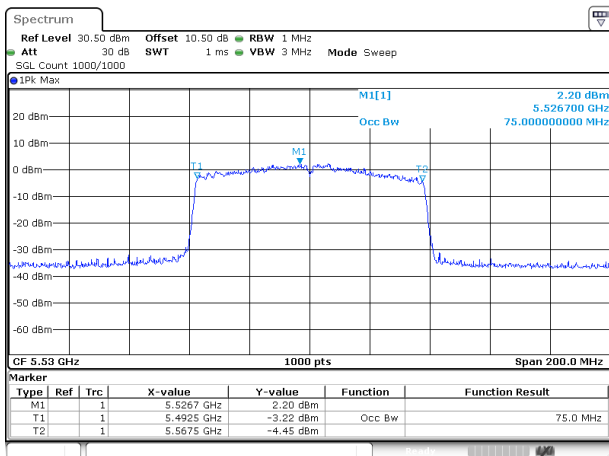
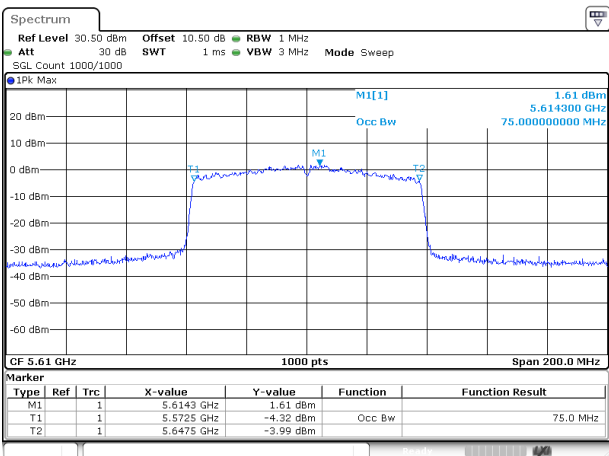


802.11ac80_5530MHz_Chain 0



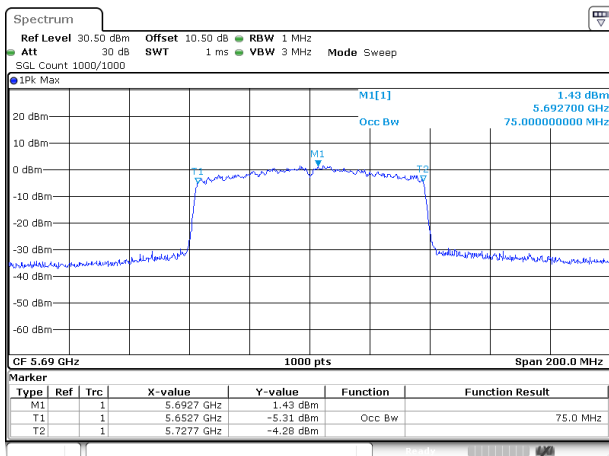
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:22:23

802.11ac80_5610MHz_Chain 0



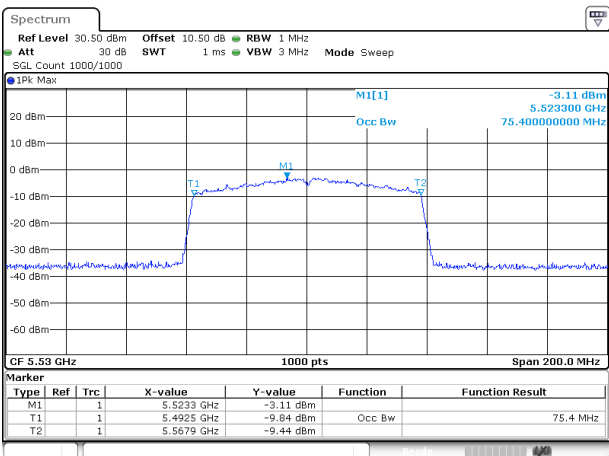
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:24:07

802.11ac80_5690MHz_Chain 0



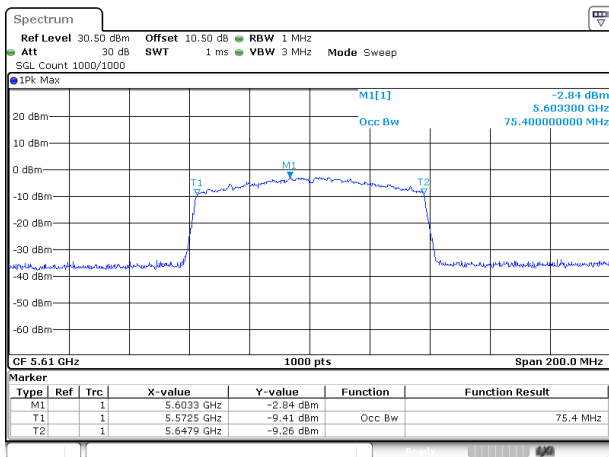
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:25:46

802.11ac80_5530MHz_Chain 1



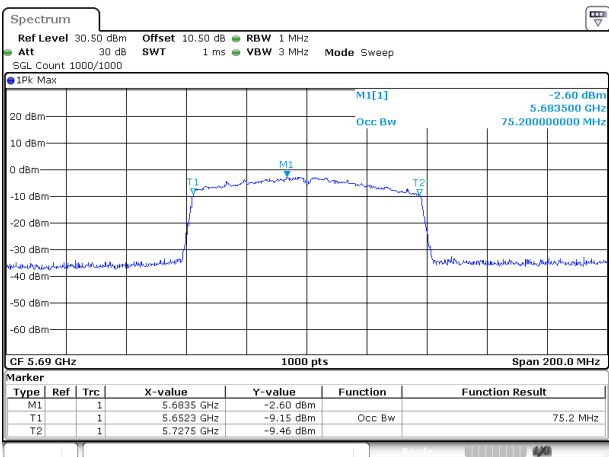
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:54:46

802.11ac80_5610MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:56:09

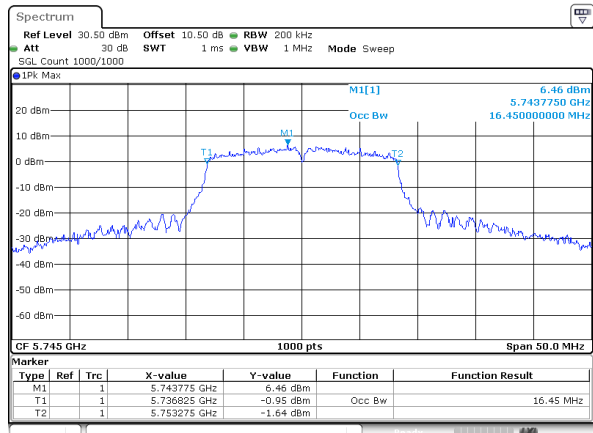
802.11ac80_5690MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:57:28

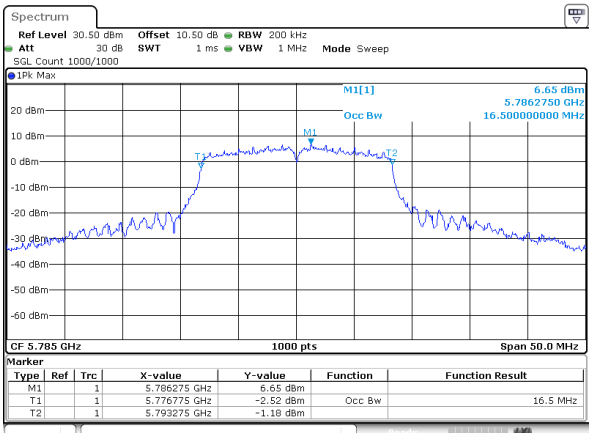
5725-5850MHz

802.11a_5745MHz_Chain 0



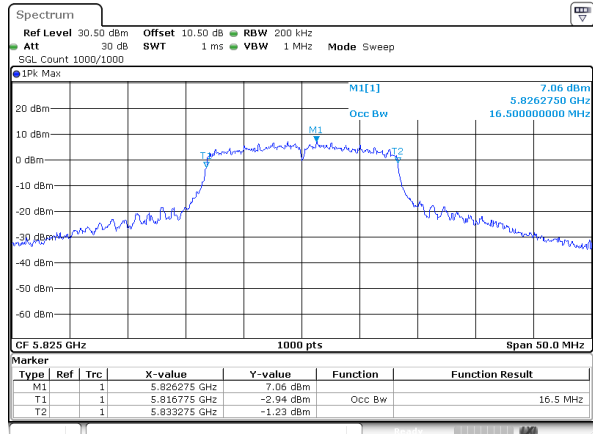
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:31:04

802.11a_5785MHz_Chain 0



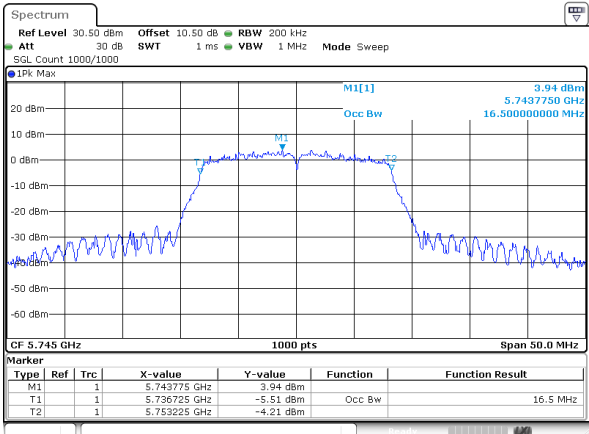
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:33:45

802.11a_5825MHz_Chain 0



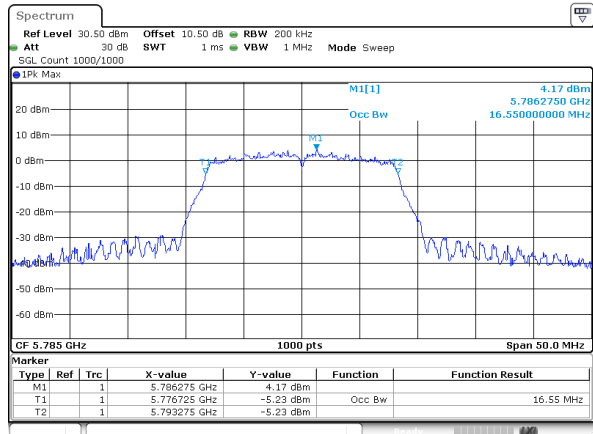
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:35:59

802.11a_5745MHz_Chain 1



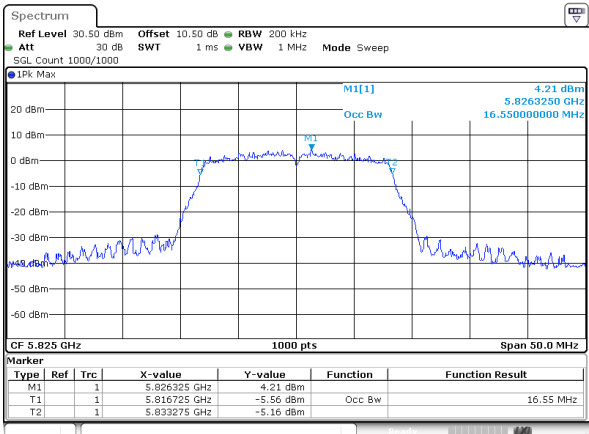
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:01:03

802.11a_5785MHz_Chain 1



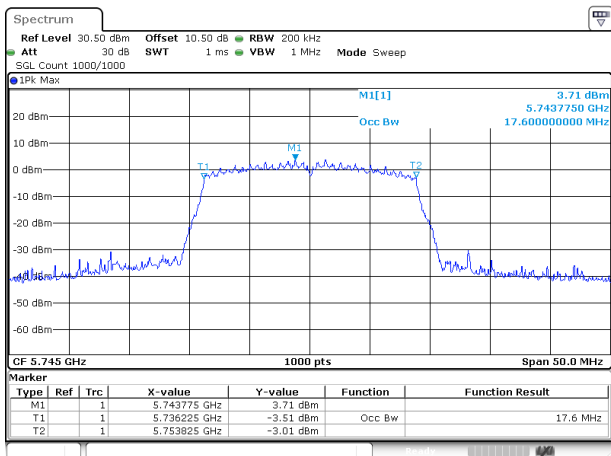
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:03:24

802.11a_5825MHz_Chain 1



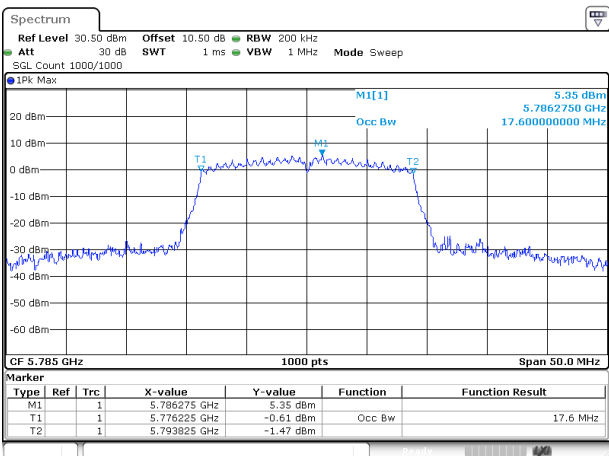
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:07:40

802.11ac20_5745MHz_Chain 0



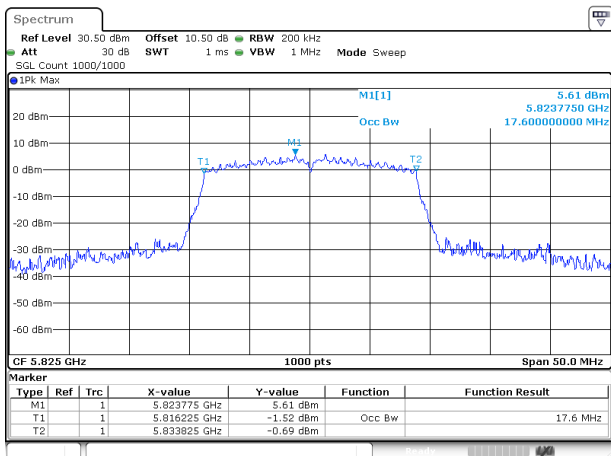
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:54:50

802.11ac20_5785MHz_Chain 0



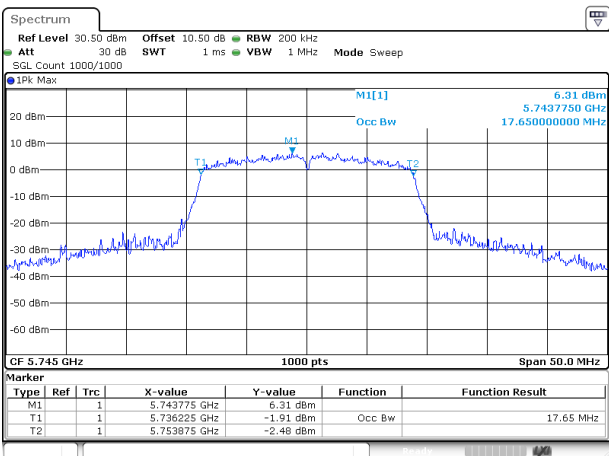
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:58:46

802.11ac20_5825MHz_Chain 0



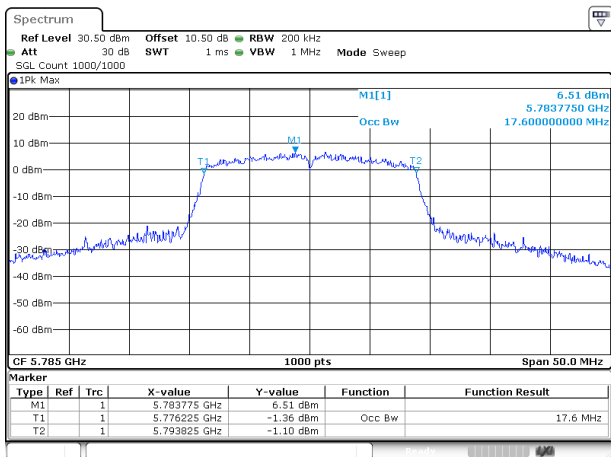
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:01:49

802.11ac20_5745MHz_Chain 1



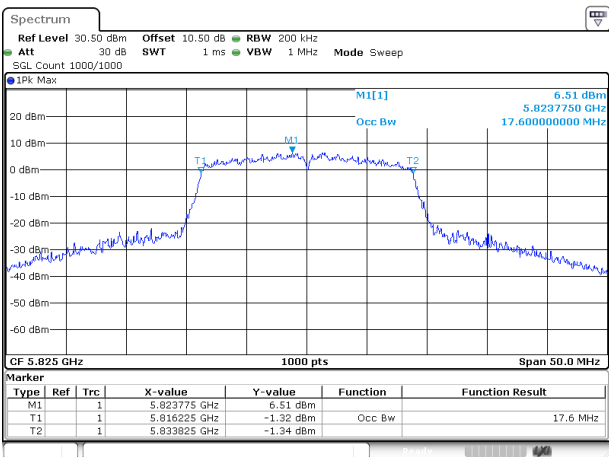
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:42:01

802.11ac20_5785MHz_Chain 1



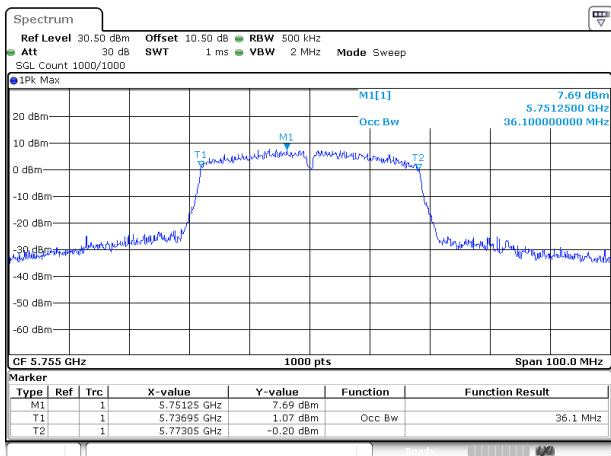
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:44:36

802.11ac20_5825MHz_Chain 1



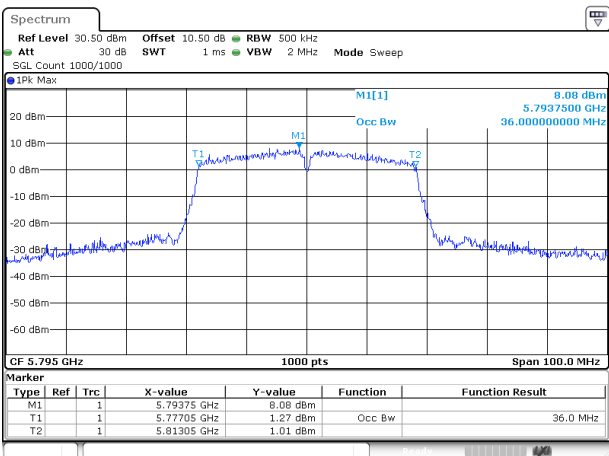
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:47:33

802.11ac40_5755MHz_Chain 0



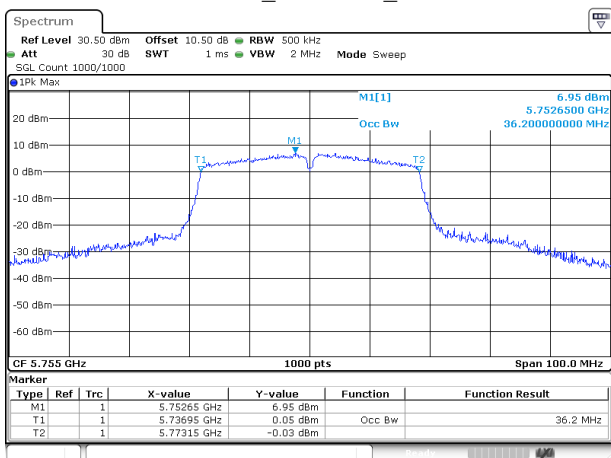
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:03:21

802.11ac40_5795MHz_Chain 0



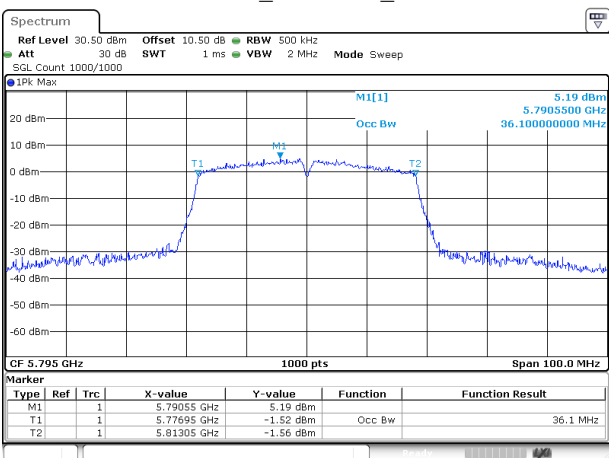
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:05:11

802.11ac40_5755MHz_Chain 1



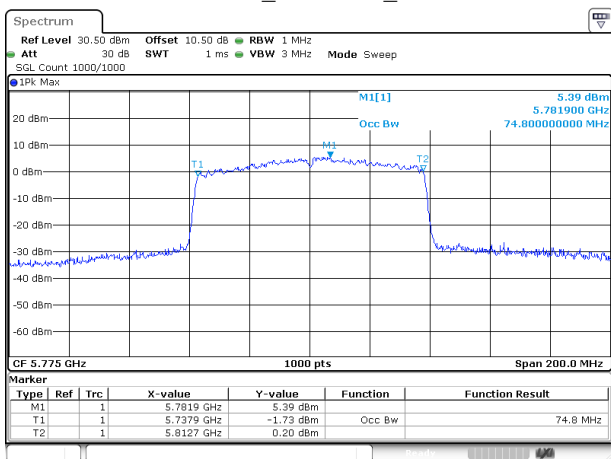
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:49:19

802.11ac40_5795MHz_Chain 1



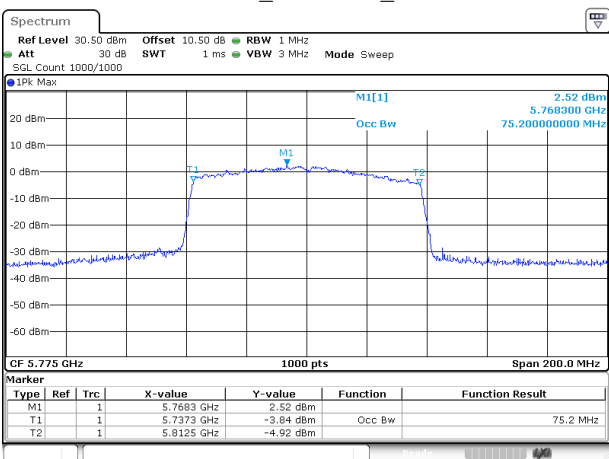
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:51:26

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 20:05:19

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:19:49

Maximum Conducted Output Power

Test Information:

Sample No.:	356Q-3	Test Date:	2025/07/15~2025/07/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4~25.9	Relative Humidity: (%)	42~56	ATM Pressure: (kPa)	99.7~99.8
----------------------	-----------	------------------------------	-------	------------------------	-----------

Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	13.18	30	Pass
		5200	13.11	30	Pass
		5240	12.42	30	Pass
	Chain 1	5180	12.72	30	Pass
		5200	12.56	30	Pass
		5240	12.44	30	Pass
802.11ac20	Chain 0	5180	15.02	30	Pass
		5200	15.10	30	Pass
		5240	14.67	30	Pass
	Chain 1	5180	15.76	30	Pass
		5200	15.74	30	Pass
		5240	15.54	30	Pass
	Total	5180	18.42	29	Pass
		5200	18.44	29	Pass
		5240	18.14	29	Pass
802.11ac40	Chain 0	5190	12.81	30	Pass
		5230	12.22	30	Pass
	Chain 1	5190	12.66	30	Pass
		5230	12.54	30	Pass
	Total	5190	15.75	29	Pass
		5230	15.39	29	Pass
802.11ac80	Chain 0	5210	11.34	30	Pass
	Chain 1	5210	12.25	30	Pass
	Total	5210	14.83	29	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5260	16.42	23.98	Pass
		5280	16.20	23.98	Pass
		5320	15.74	23.98	Pass
	Chain 1	5260	16.62	23.98	Pass
		5280	16.61	23.98	Pass
		5320	16.72	23.98	Pass
802.11ac20	Chain 0	5260	15.12	23.98	Pass
		5280	15.17	23.98	Pass
		5320	14.69	23.98	Pass
	Chain 1	5260	15.83	23.98	Pass
		5280	15.81	23.98	Pass
		5320	15.59	23.98	Pass
	Total	5260	18.50	22.98	Pass
		5280	18.51	22.98	Pass
		5320	18.17	22.98	Pass
802.11ac40	Chain 0	5270	13.69	23.98	Pass
		5310	13.37	23.98	Pass
	Chain 1	5270	14.33	23.98	Pass
		5310	14.19	23.98	Pass
	Total	5270	17.03	22.98	Pass
		5310	16.81	22.98	Pass
802.11ac80	Chain 0	5290	11.68	23.98	Pass
	Chain 1	5290	12.71	23.98	Pass
	Total	5290	15.24	22.98	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5500	13.35	23.98	Pass
		5580	13.04	23.98	Pass
		5700	12.14	23.98	Pass
		5720	11.47	23.98	Pass
	Chain 1	5500	11.06	23.98	Pass
		5580	10.58	23.98	Pass
		5700	9.84	23.98	Pass
		5720	9.40	23.98	Pass
802.11ac20	Chain 0	5500	10.60	23.98	Pass
		5580	10.69	23.98	Pass
		5700	11.22	23.98	Pass
		5720	10.67	23.98	Pass
	Chain 1	5500	12.64	23.98	Pass
		5580	12.58	23.98	Pass
		5700	15.35	23.98	Pass
		5720	11.87	23.98	Pass
	Total	5500	14.75	22.98	Pass
		5580	14.75	22.98	Pass
		5700	16.77	22.98	Pass
		5720	14.32	22.98	Pass
802.11ac40	Chain 0	5510	7.95	23.98	Pass
		5550	7.72	23.98	Pass
		5670	6.23	23.98	Pass
		5710	5.76	23.98	Pass
	Chain 1	5510	7.07	23.98	Pass
		5550	6.98	23.98	Pass
		5670	6.05	23.98	Pass
		5710	4.73	23.98	Pass
	Total	5510	10.54	22.98	Pass
		5550	10.38	22.98	Pass
		5670	9.15	22.98	Pass
		5710	8.29	22.98	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11ac80	Chain 0	5530	6.78	23.98	Pass
		5610	5.81	23.98	Pass
		5690	4.93	23.98	Pass
	Chain 1	5530	6.16	23.98	Pass
		5610	5.86	23.98	Pass
		5690	4.96	23.98	Pass
	Total	5530	9.49	22.98	Pass
		5610	8.85	22.98	Pass
		5690	7.96	22.98	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	16.06	30	Pass
		5785	16.24	30	Pass
		5825	16.63	30	Pass
	Chain 1	5745	13.47	30	Pass
		5785	13.49	30	Pass
		5825	13.66	30	Pass
802.11ac20	Chain 0	5745	13.06	30	Pass
		5785	15.0	30	Pass
		5825	14.97	30	Pass
	Chain 1	5745	15.91	30	Pass
		5785	16.14	30	Pass
		5825	15.99	30	Pass
	Total	5745	17.73	29	Pass
		5785	18.62	29	Pass
		5825	18.52	29	Pass
802.11ac40	Chain 0	5755	15.14	30	Pass
		5795	15.11	30	Pass
	Chain 1	5755	15.9	30	Pass
		5795	13.68	30	Pass
	Total	5755	18.55	29	Pass
		5795	17.46	29	Pass
802.11ac80	Chain 0	5775	13.14	30	Pass
	Chain 1	5775	10.46	30	Pass
	Total	5775	15.01	29	Pass

Note: For 802.11n/ac modes, the device support beam-forming function, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	3.56	dBi	Directional gain:	7.00	dBi
Chain 1 Gain:	4.40	dBi			

Power Spectral Density

Test Information:

Sample No.:	356Q-3	Test Date:	2025/07/15~2025/08/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.4~25.9	Relative Humidity: (%)	42~56	ATM Pressure: (kPa)	99.7~99.8
----------------------	-----------	------------------------------	-------	------------------------	-----------

Test Data:**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5180	2.79	0.17	2.96	17	Pass
		5200	2.69	0.17	2.86	17	Pass
		5240	2.02	0.17	2.19	17	Pass
	Chain 1	5180	2.54	0.17	2.71	17	Pass
		5200	2.41	0.17	2.58	17	Pass
		5240	2.09	0.17	2.26	17	Pass
802.11ac20	Chain 0	5180	4.59	0.34	4.93	17	Pass
		5200	4.76	0.34	5.10	17	Pass
		5240	4.33	0.34	4.67	17	Pass
	Chain 1	5180	5.16	0.34	5.50	17	Pass
		5200	5.13	0.34	5.47	17	Pass
		5240	5.03	0.34	5.37	17	Pass
	Total	5180	7.89	0.34	8.23	16	Pass
		5200	7.96	0.34	8.30	16	Pass
		5240	7.70	0.34	8.04	16	Pass
802.11ac40	Chain 0	5190	-0.95	0.63	-0.32	17	Pass
		5230	-1.62	0.63	-0.99	17	Pass
	Chain 1	5190	-0.96	0.63	-0.33	17	Pass
		5230	-1.31	0.63	-0.68	17	Pass
	Total	5190	2.06	0.63	2.69	16	Pass
		5230	1.55	0.63	2.18	16	Pass
802.11ac80	Chain 0	5210	-5.58	1.11	-4.47	17	Pass
	Chain 1	5210	-4.45	1.11	-3.34	17	Pass
	Total	5210	-1.97	1.11	-0.86	16	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5260	6.07	0.17	6.24	11	Pass
		5280	6.22	0.17	6.39	11	Pass
		5320	5.62	0.17	5.79	11	Pass
	Chain 1	5260	6.36	0.17	6.53	11	Pass
		5280	6.29	0.17	6.46	11	Pass
		5320	6.33	0.17	6.50	11	Pass
802.11ac20	Chain 0	5260	4.63	0.34	4.97	11	Pass
		5280	4.66	0.34	5.00	11	Pass
		5320	4.36	0.34	4.70	11	Pass
	Chain 1	5260	5.32	0.34	5.66	11	Pass
		5280	5.13	0.34	5.47	11	Pass
		5320	5.11	0.34	5.45	11	Pass
	Total	5260	8	0.34	8.34	10	Pass
		5280	7.91	0.34	8.25	10	Pass
		5320	7.76	0.34	8.10	10	Pass
802.11ac40	Chain 0	5270	0.07	0.63	0.70	11	Pass
		5310	-0.67	0.63	-0.04	11	Pass
	Chain 1	5270	0.72	0.63	1.35	11	Pass
		5310	0.43	0.63	1.06	11	Pass
	Total	5270	3.42	0.63	4.05	10	Pass
		5310	2.93	0.63	3.56	10	Pass
802.11ac80	Chain 0	5290	-5.30	1.11	-4.19	11	Pass
	Chain 1	5290	-3.88	1.11	-2.77	11	Pass
	Total	5290	-1.52	1.11	-0.41	10	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5500	3.16	0.17	3.33	11	Pass
		5580	2.81	0.17	2.98	11	Pass
		5700	2.21	0.17	2.38	11	Pass
		5720	1.92	0.17	2.09	11	Pass
	Chain 1	5500	0.82	0.17	0.99	11	Pass
		5580	0.36	0.17	0.53	11	Pass
		5700	-0.37	0.17	-0.20	11	Pass
		5720	-0.07	0.17	0.10	11	Pass
802.11ac20	Chain 0	5500	0.02	0.34	0.36	11	Pass
		5580	0.34	0.34	0.68	11	Pass
		5700	0.98	0.34	1.32	11	Pass
		5720	0.82	0.34	1.16	11	Pass
	Chain 1	5500	2.03	0.34	2.37	11	Pass
		5580	2.01	0.34	2.35	11	Pass
		5700	4.96	0.34	5.30	11	Pass
		5720	2.19	0.34	2.53	11	Pass
	Total	5500	4.15	0.34	4.49	10	Pass
		5580	4.27	0.34	4.61	10	Pass
		5700	6.42	0.34	6.76	10	Pass
		5720	4.57	0.34	4.91	10	Pass
802.11ac40	Chain 0	5510	-5.34	0.63	-4.71	11	Pass
		5550	-5.86	0.63	-5.23	11	Pass
		5670	-7.41	0.63	-6.78	11	Pass
		5710	-7.39	0.63	-6.76	11	Pass
	Chain 1	5510	-6.56	0.63	-5.93	11	Pass
		5550	-6.49	0.63	-5.86	11	Pass
		5670	-7.53	0.63	-6.9	11	Pass
		5710	-8.61	0.63	-7.98	11	Pass
	Total	5510	-2.90	0.63	-2.27	10	Pass
		5550	-3.15	0.63	-2.52	10	Pass
		5670	-4.46	0.63	-3.83	10	Pass
		5710	-4.95	0.63	-4.32	10	Pass

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11ac80	Chain 0	5530	-9.59	1.11	-8.48	11	Pass
		5610	-10.62	1.11	-9.51	11	Pass
		5690	-11.35	1.11	-10.24	11	Pass
	Chain 1	5530	-10.06	1.11	-8.95	11	Pass
		5610	-10.49	1.11	-9.38	11	Pass
		5690	-11.48	1.11	-10.37	11	Pass
	Total	5530	-6.81	1.11	-5.7	10	Pass
		5610	-7.54	1.11	-6.43	10	Pass
		5690	-8.40	1.11	-7.29	10	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	Chain 0	5745	3.06	0.17	3.23	30	Pass
		5785	3.17	0.17	3.34	30	Pass
		5825	3.60	0.17	3.77	30	Pass
	Chain 1	5745	0.38	0.17	0.55	30	Pass
		5785	0.46	0.17	0.63	30	Pass
		5825	0.65	0.17	0.82	30	Pass
802.11ac20	Chain 0	5745	-0.16	0.34	0.18	30	Pass
		5785	1.55	0.34	1.89	30	Pass
		5825	2.14	0.34	2.48	30	Pass
	Chain 1	5745	2.38	0.34	2.72	30	Pass
		5785	2.63	0.34	2.97	30	Pass
		5825	2.50	0.34	2.84	30	Pass
	Total	5745	4.30	0.34	4.64	29	Pass
		5785	5.13	0.34	5.47	29	Pass
		5825	5.33	0.34	5.67	29	Pass
802.11ac40	Chain 0	5755	-1.49	0.63	-0.86	30	Pass
		5795	-1.00	0.63	-0.37	30	Pass
	Chain 1	5755	-0.56	0.63	0.07	30	Pass
		5795	-2.94	0.63	-2.31	30	Pass
	Total	5755	2.01	0.63	2.64	29	Pass
		5795	1.15	0.63	1.78	29	Pass
802.11ac80	Chain 0	5775	-6.55	1.11	-5.44	30	Pass
	Chain 1	5775	-9.50	1.11	-8.39	30	Pass
	Total	5775	-4.77	1.11	-3.66	29	Pass

Note:

1. Result = Reading + Duty Cycle Factor

2. For 802.11n/ac modes, the device support beam-forming function, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

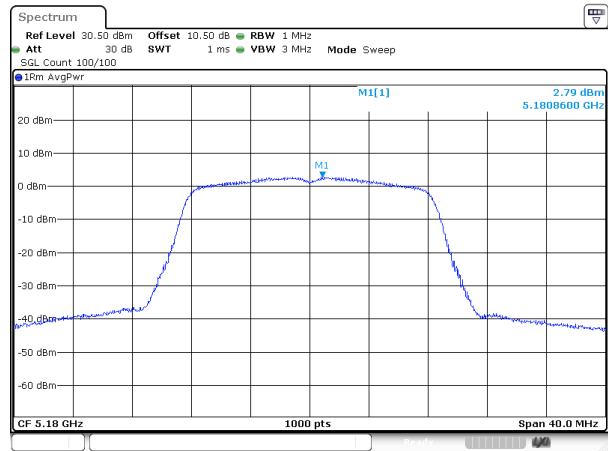
$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

Chain 0 Gain:	3.56	dBi	Directional gain:	7.00	dBi
Chain 1 Gain:	4.40	dBi			

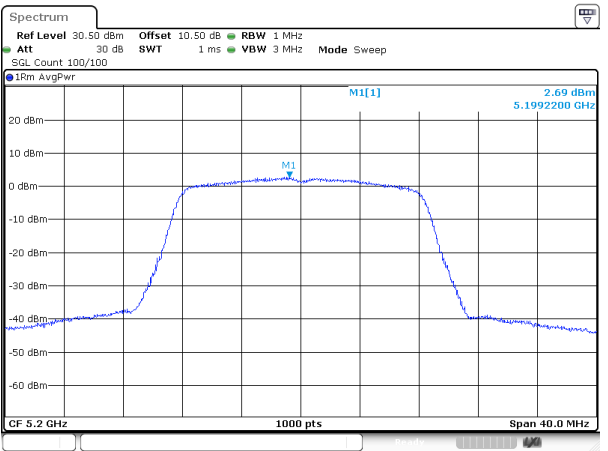
5150-5250MHz

802.11a_5180MHz_Chain 0



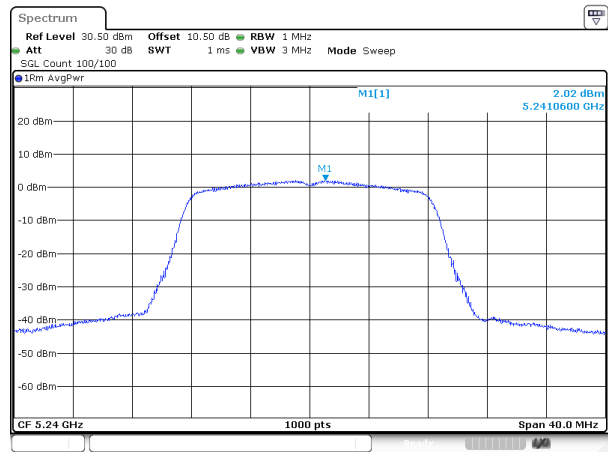
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 10:55:28

802.11a_5200MHz_Chain 0



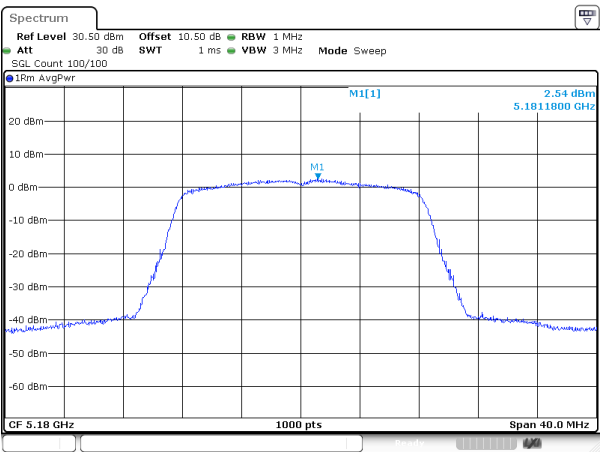
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 10:57:33

802.11a_5240MHz_Chain 0



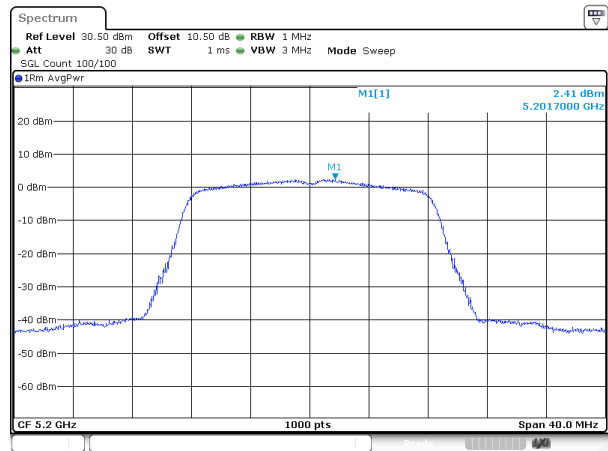
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 10:58:01

802.11a_5180MHz_Chain 1



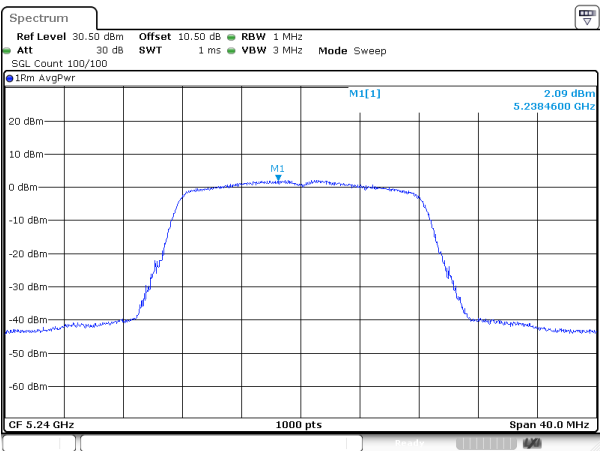
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 11:52:03

802.11a_5200MHz_Chain 1



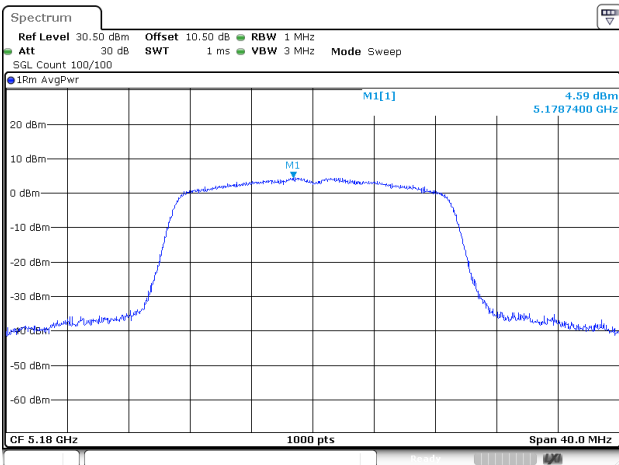
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 11:52:44

802.11a_5240MHz_Chain 1



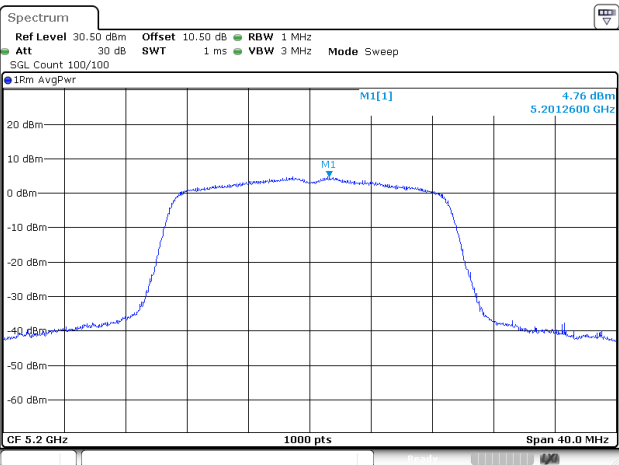
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 11:53:28

802.11ac20_5180MHz_Chain 0



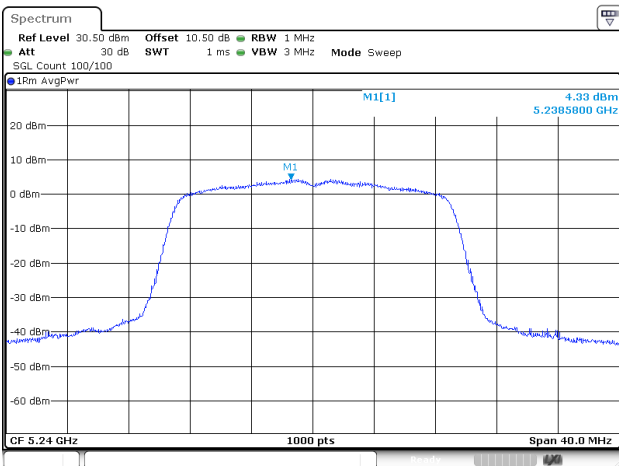
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:24:09

802.11ac20_5200MHz_Chain 0



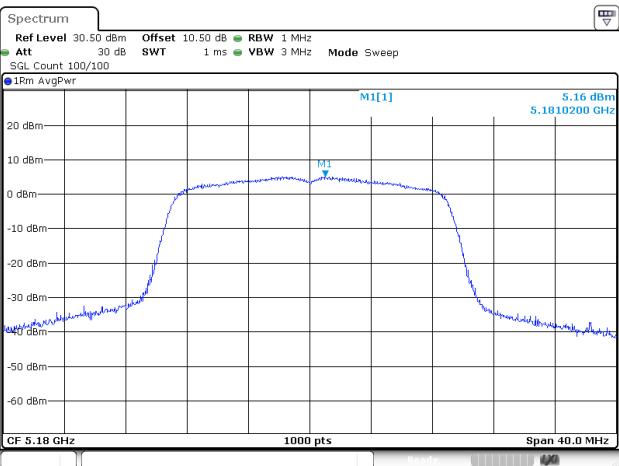
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:26:40

802.11ac20_5240MHz_Chain 0



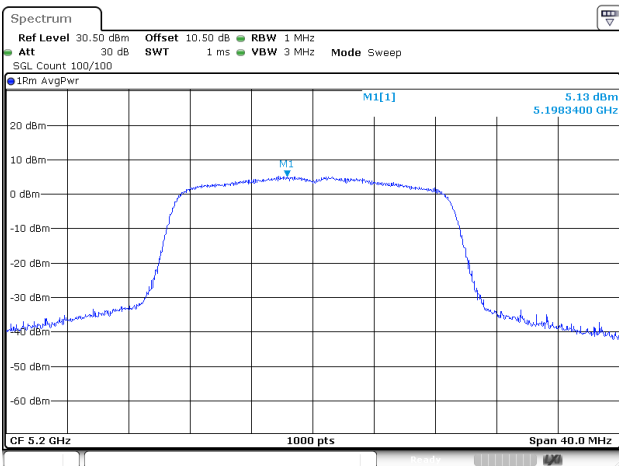
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:29:13

802.11ac20_5180MHz_Chain 1



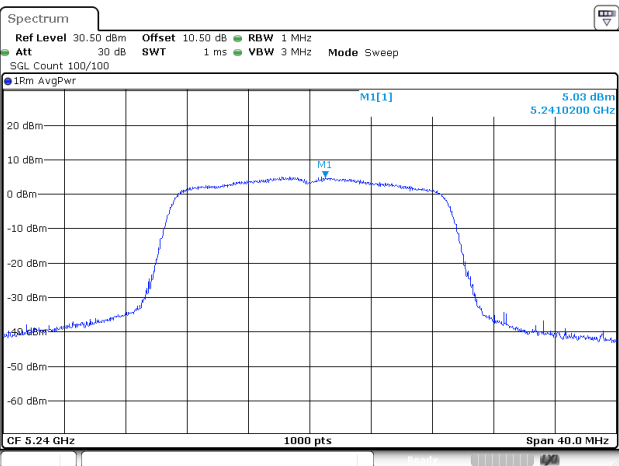
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:10:17

802.11ac20_5200MHz_Chain 1



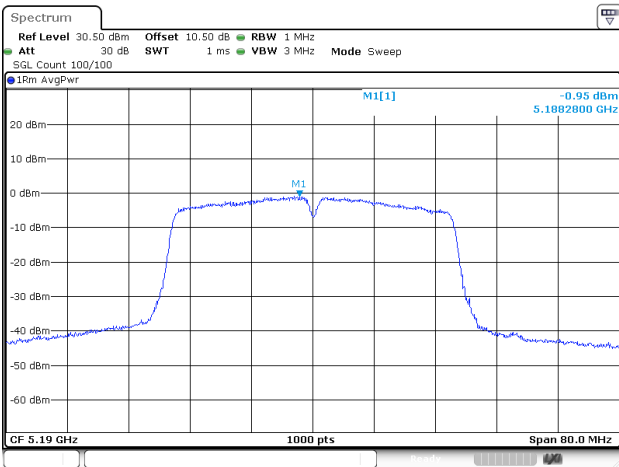
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:12:20

802.11ac20_5240MHz_Chain 1



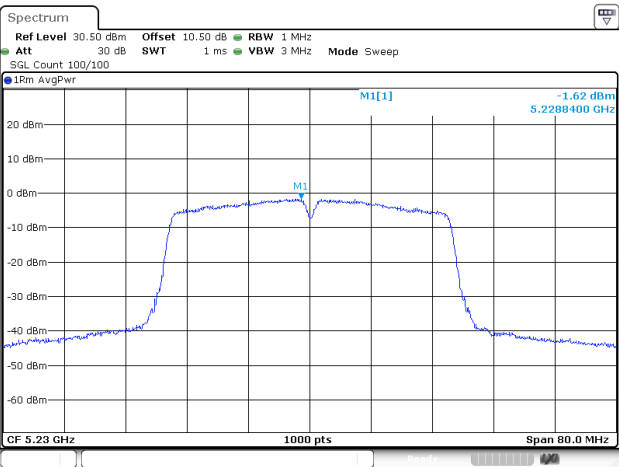
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:14:34

802.11ac40_5190MHz_Chain 0



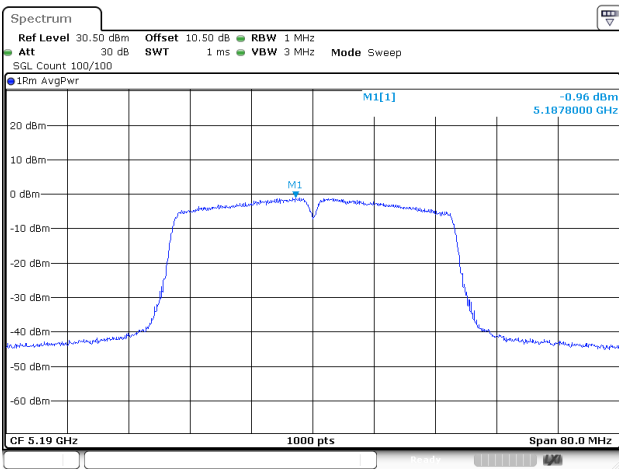
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 11:08:33

802.11ac40_5230MHz_Chain 0



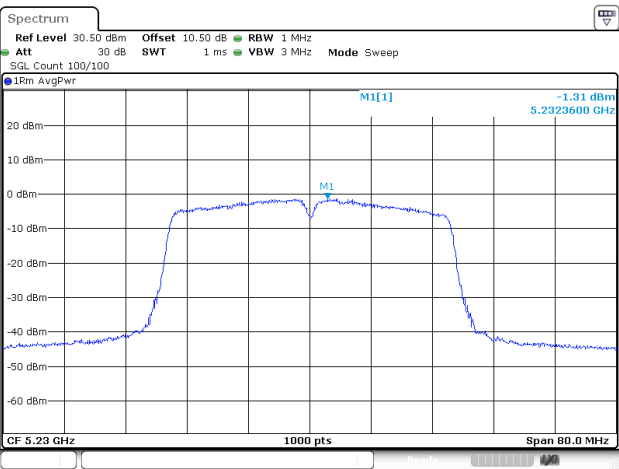
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 11:09:21

802.11ac40_5190MHz_Chain 1



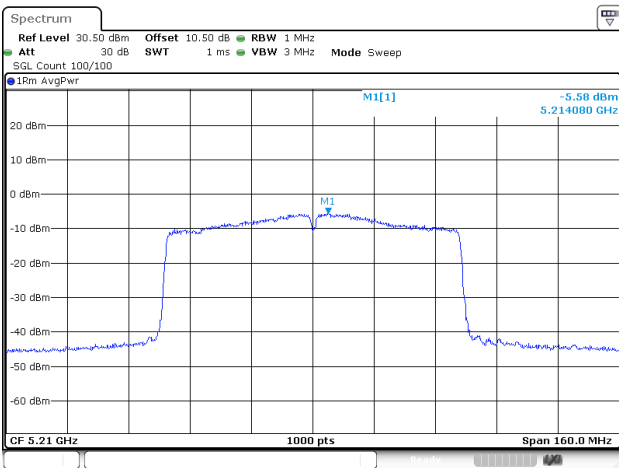
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 12:04:26

802.11ac40_5230MHz_Chain 1



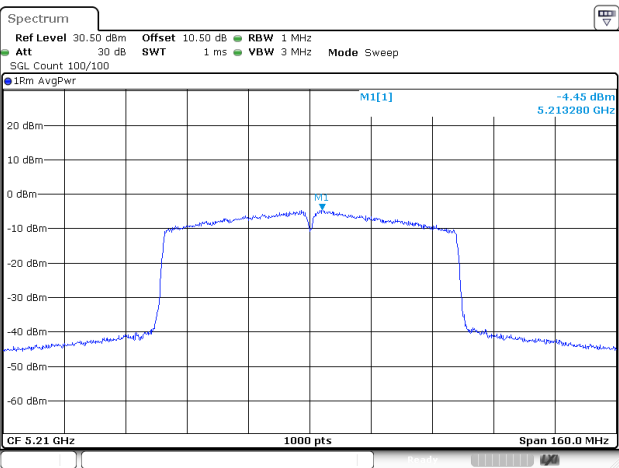
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 12:05:08

802.11ac80_5210MHz_Chain 0



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 11:20:05

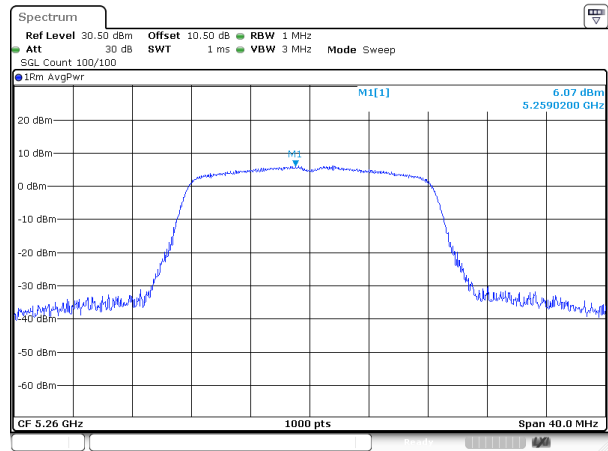
802.11ac80_5210MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 12:06:37

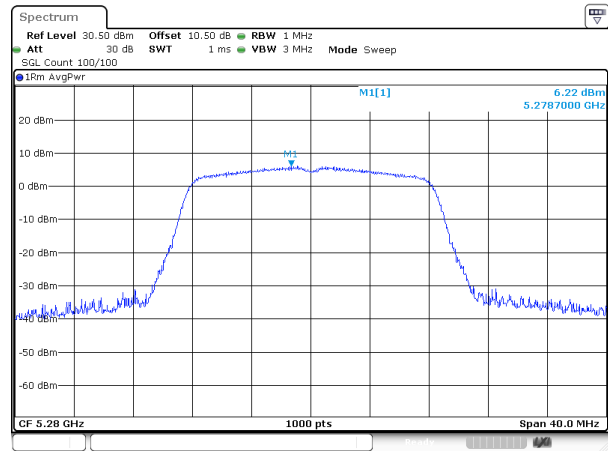
5250-5350MHz

802.11a_5260MHz_Chain 0



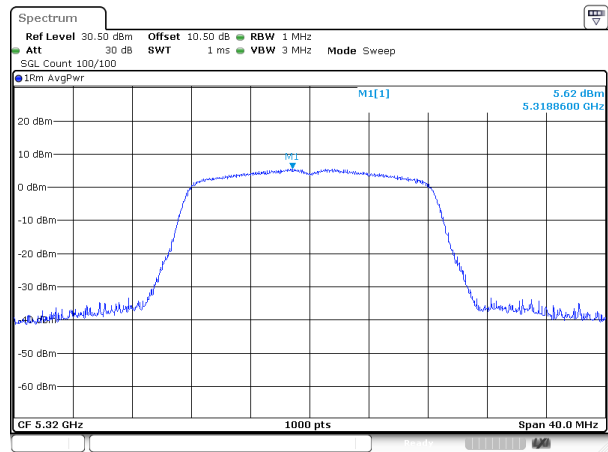
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 17:44:24

802.11a_5280MHz_Chain 0



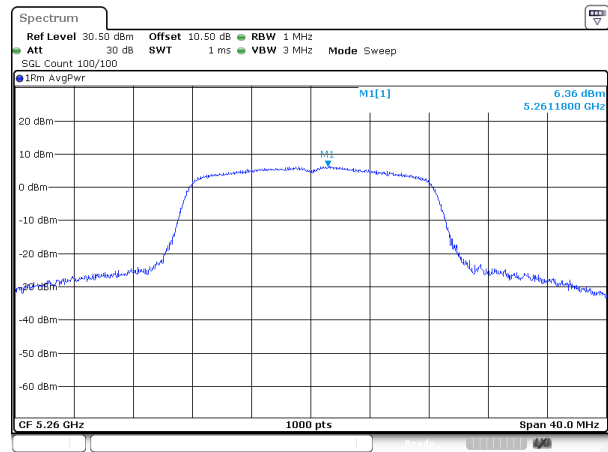
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 17:46:32

802.11a_5320MHz_Chain 0



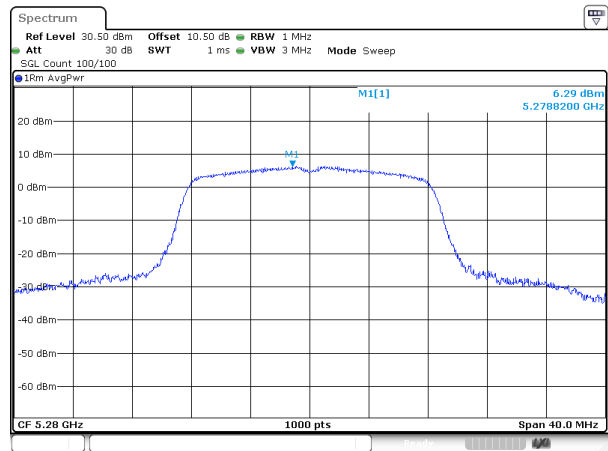
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 17:48:44

802.11a_5260MHz_Chain 1



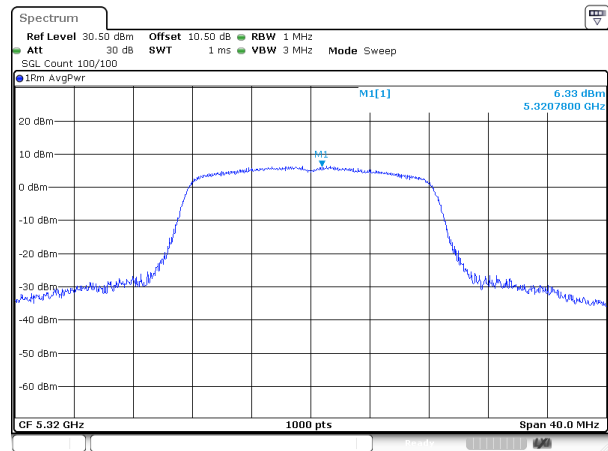
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 11:53:03

802.11a_5280MHz_Chain 1



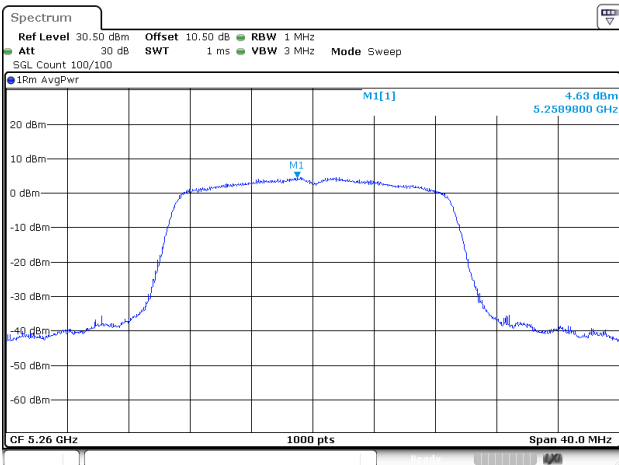
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 11:55:19

802.11a_5320MHz_Chain 1



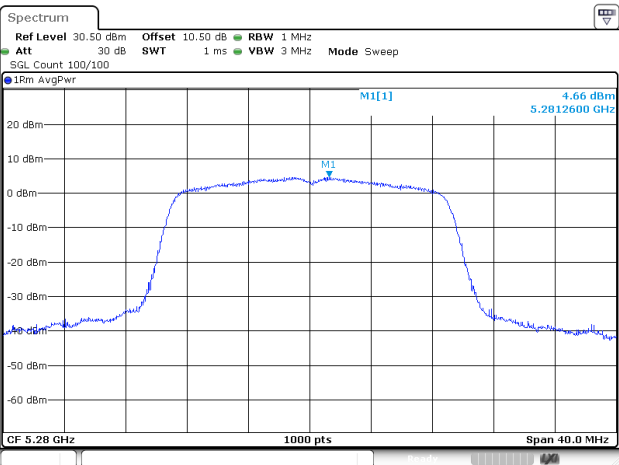
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 11:57:30

802.11ac20_5260MHz_Chain 0



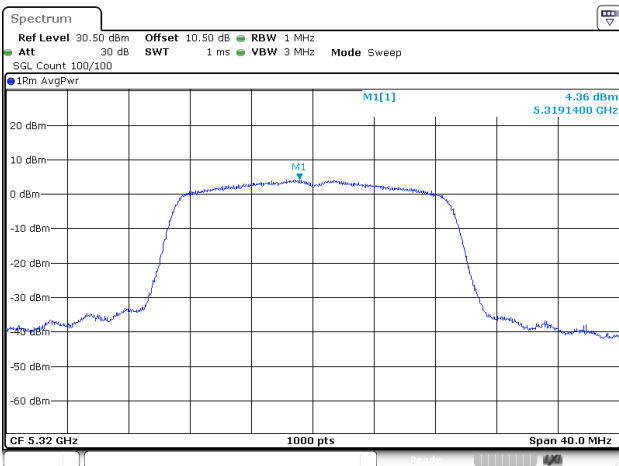
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:31:40

802.11ac20_5280MHz_Chain 0



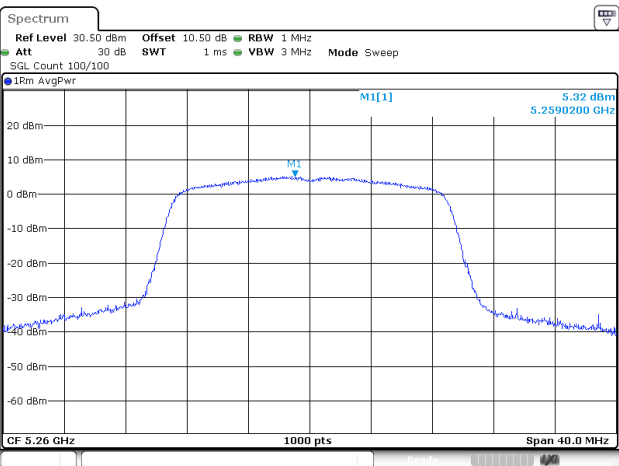
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:33:42

802.11ac20_5320MHz_Chain 0



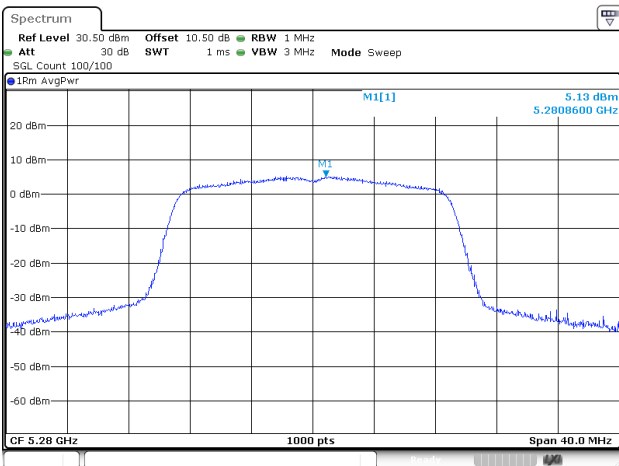
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:36:05

802.11ac20_5260MHz_Chain 1



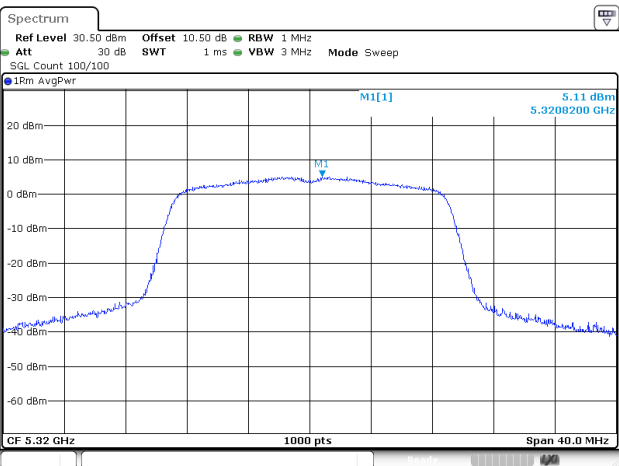
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:17:04

802.11ac20_5280MHz_Chain 1



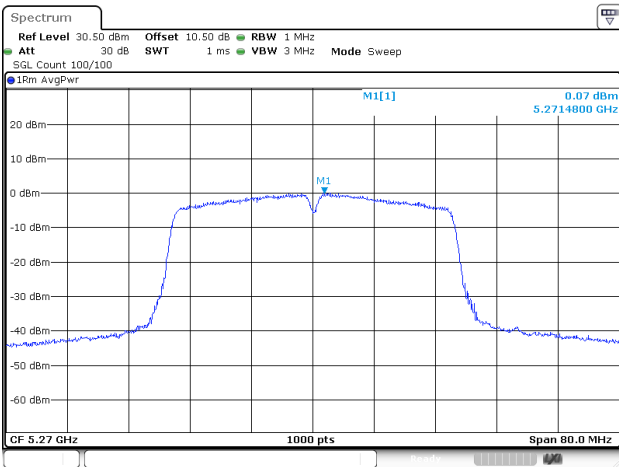
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:19:19

802.11ac20_5320MHz_Chain 1



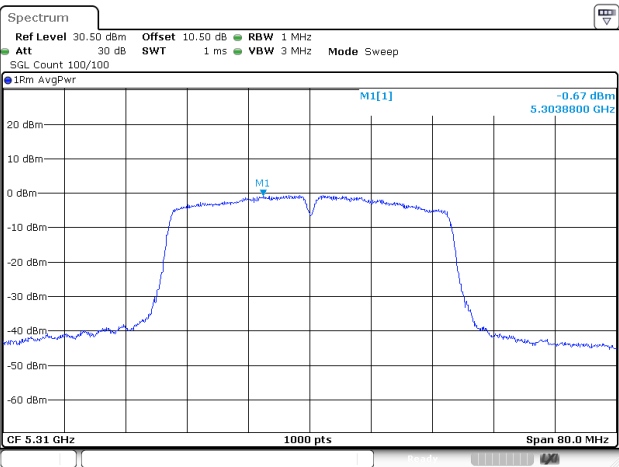
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:22:46

802.11ac40_5270MHz_Chain 0



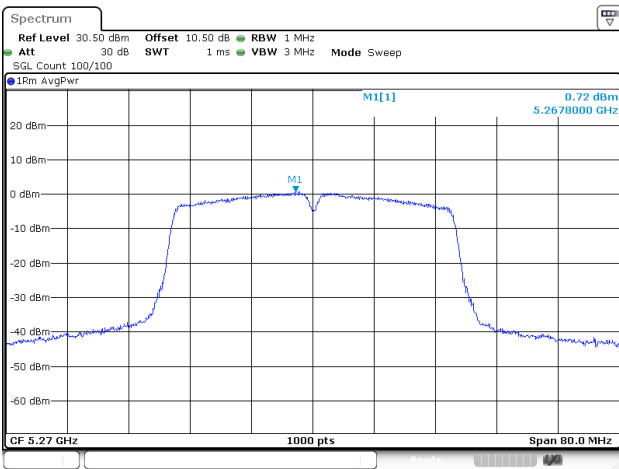
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:39:23

802.11ac40_5310MHz_Chain 0



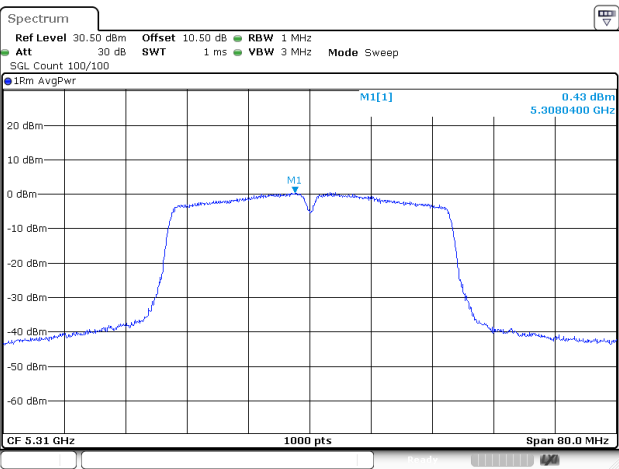
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:41:00

802.11ac40_5270MHz_Chain 1



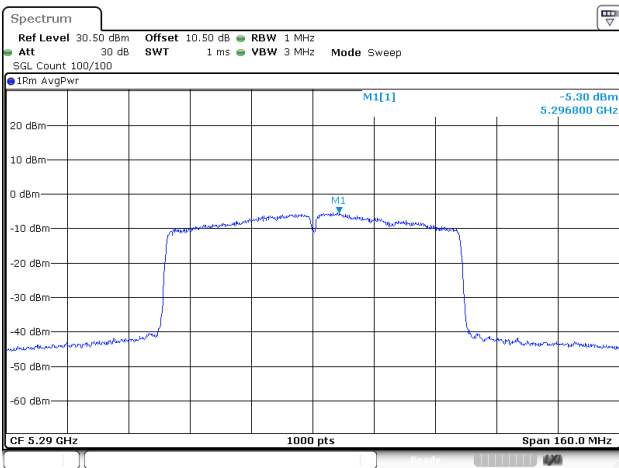
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:24:49

802.11ac40_5310MHz_Chain 1



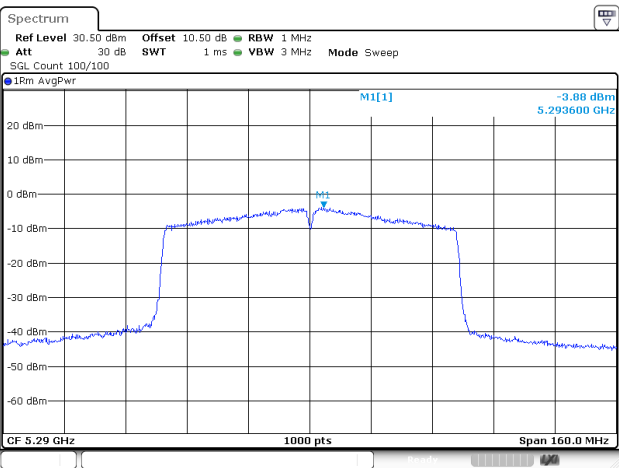
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:26:29

802.11ac80_5290MHz_Chain 0



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 18:34:06

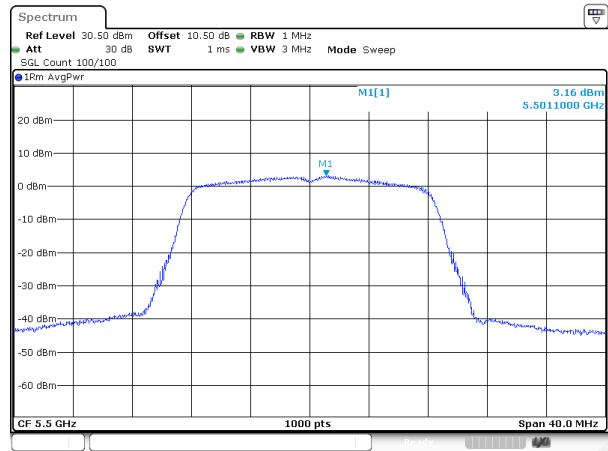
802.11ac80_5290MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 12:58:55

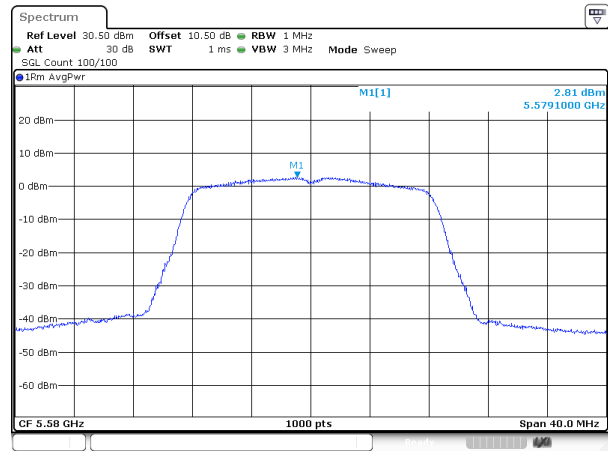
5470-5725MHz

802.11a_5500MHz_Chain 0



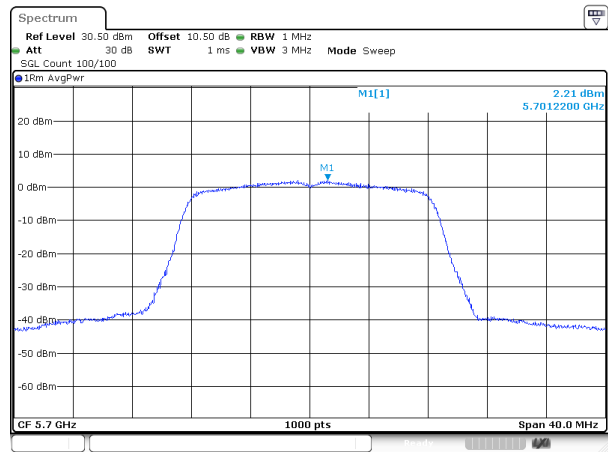
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 18:45:14

802.11a_5580MHz_Chain 0



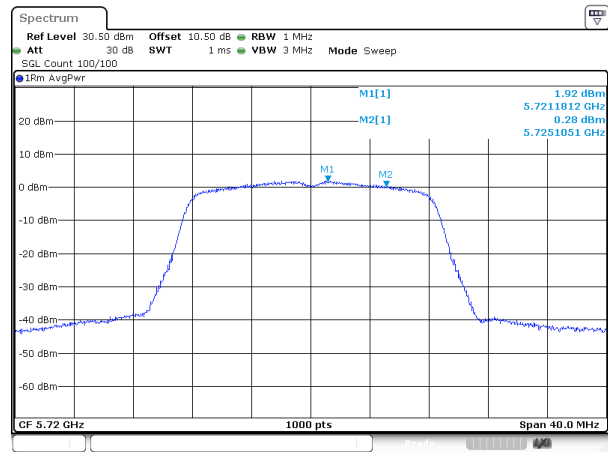
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 18:42:12

802.11a_5700MHz_Chain 0



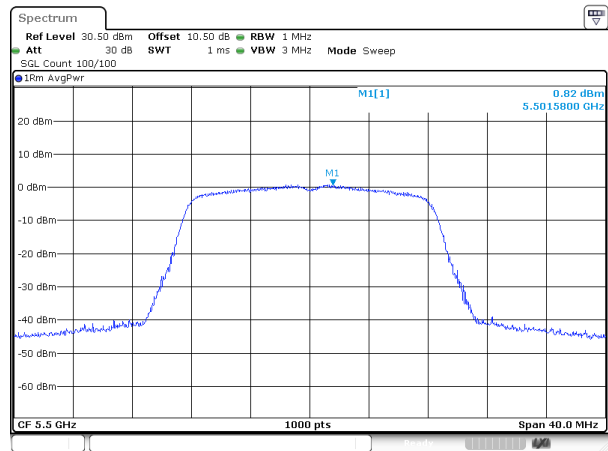
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 18:48:38

802.11a_5720MHz_Chain 0



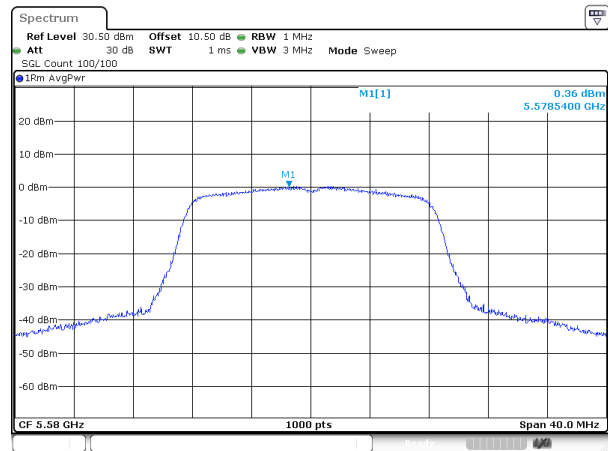
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 18:51:28

802.11a_5500MHz_Chain 1



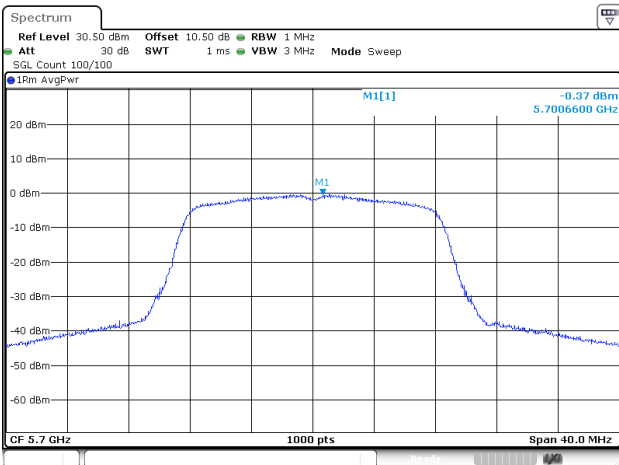
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:15:49

802.11a_5580MHz_Chain 1



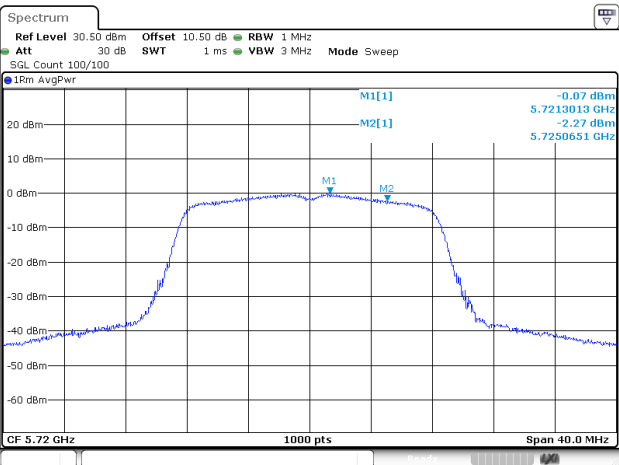
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:18:29

802.11a_5700MHz_Chain 1



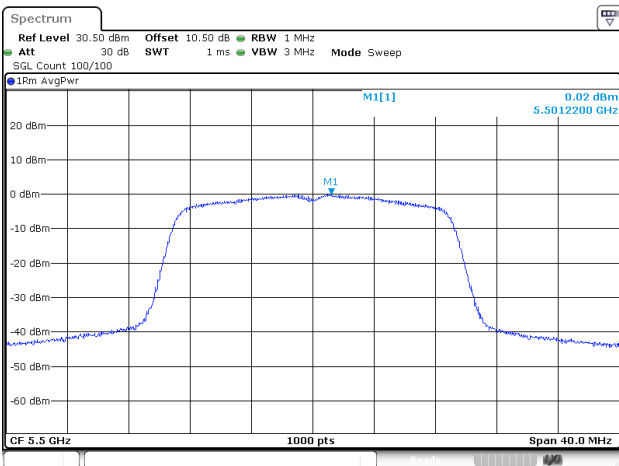
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:21:19

802.11a_5720MHz_Chain 1



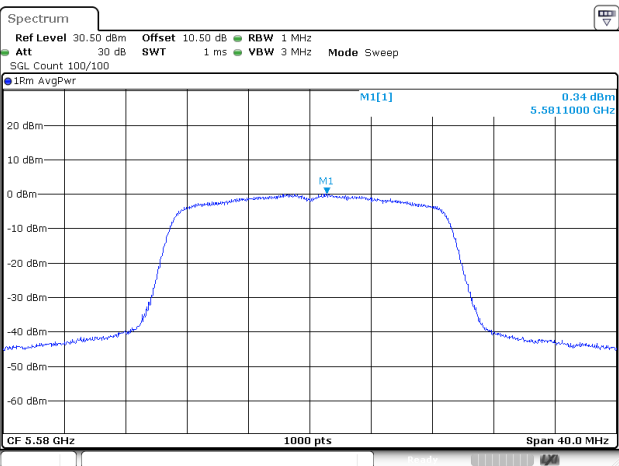
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 13:23:36

802.11ac20_5500MHz_Chain 0



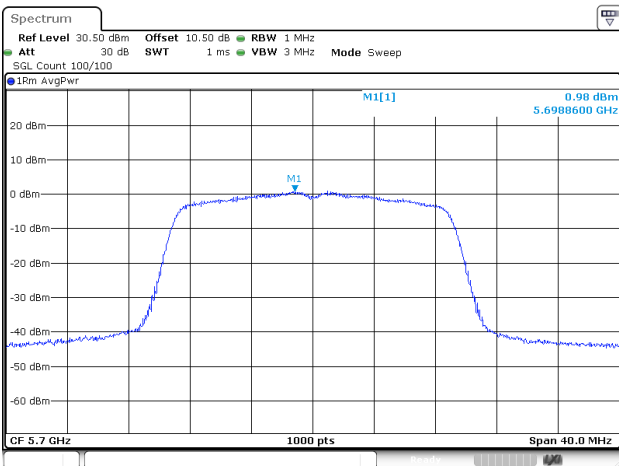
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:43:53

802.11ac20_5580MHz_Chain 0



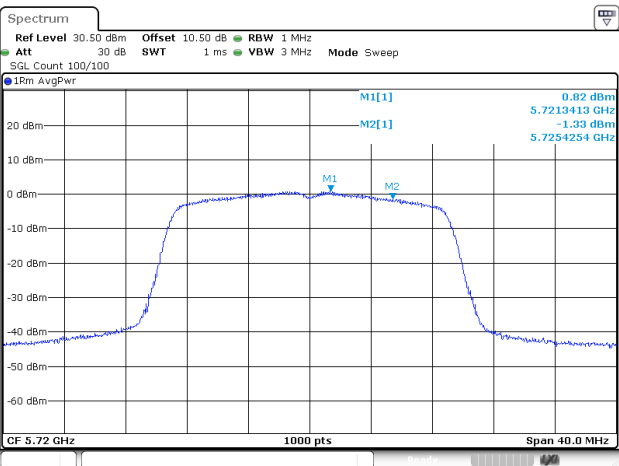
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:46:15

802.11ac20_5700MHz_Chain 0



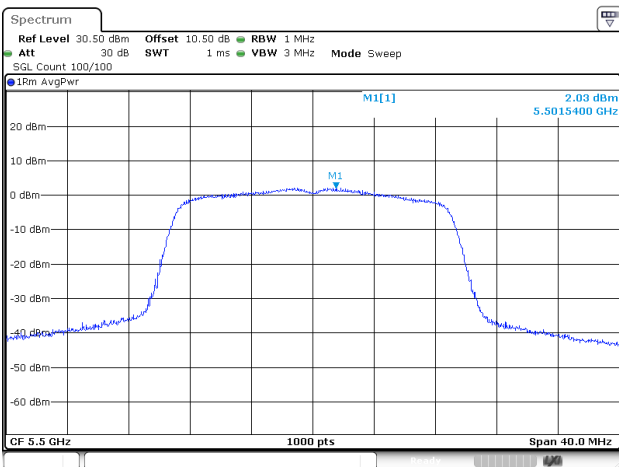
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:48:56

802.11ac20_5720MHz_Chain 0



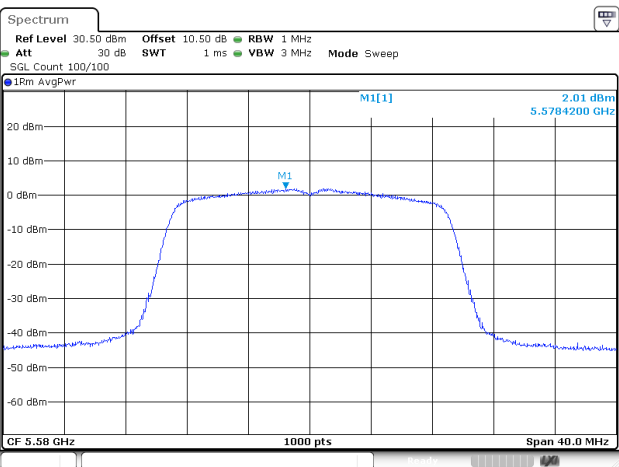
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:51:29

802.11ac20_5500MHz_Chain 1



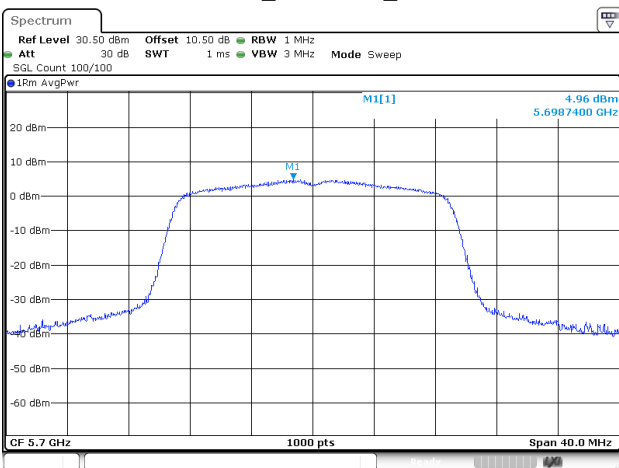
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:29:37

802.11ac20_5580MHz_Chain 1



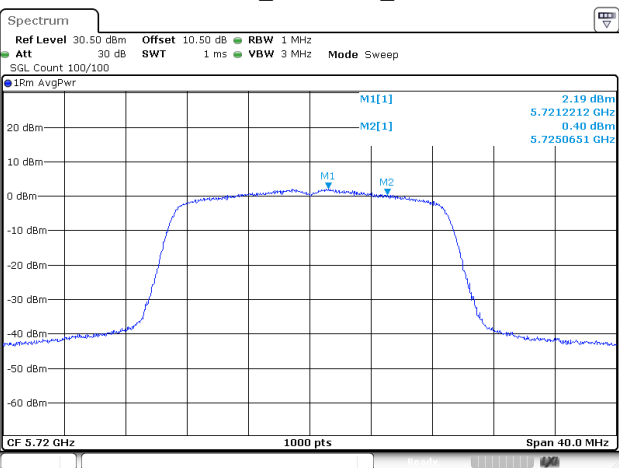
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:32:40

802.11ac20_5700MHz_Chain 1



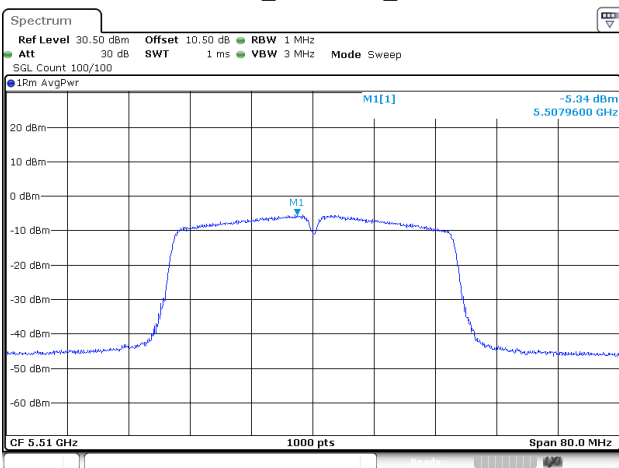
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:36:41

802.11ac20_5720MHz_Chain 1



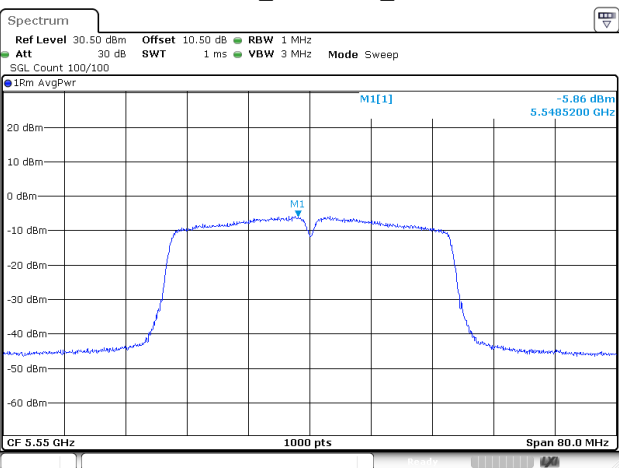
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:39:38

802.11ac40_5510MHz_Chain 0



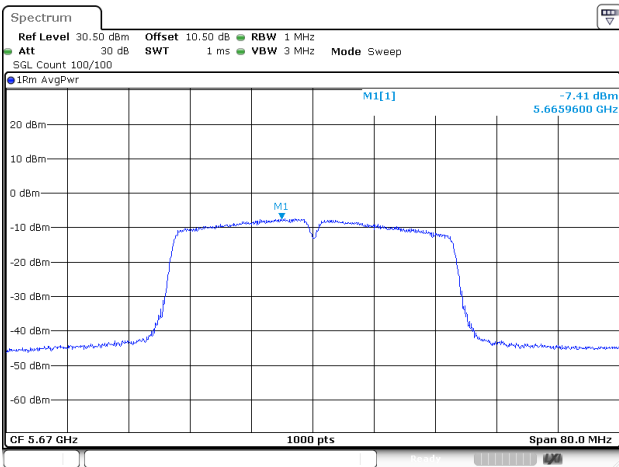
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:16:43

802.11ac40_5550MHz_Chain 0



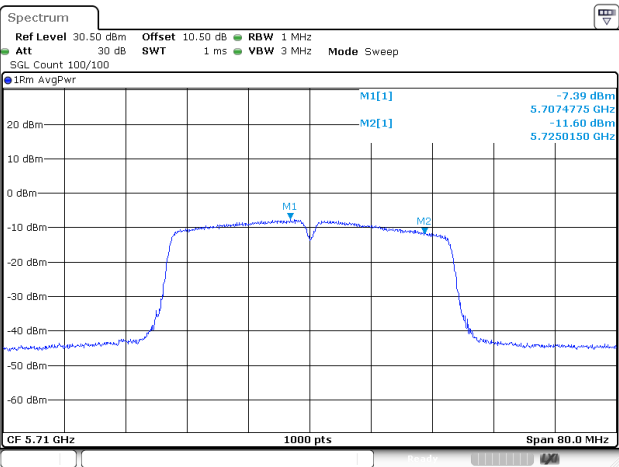
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:17:10

802.11ac40_5670MHz_Chain 0



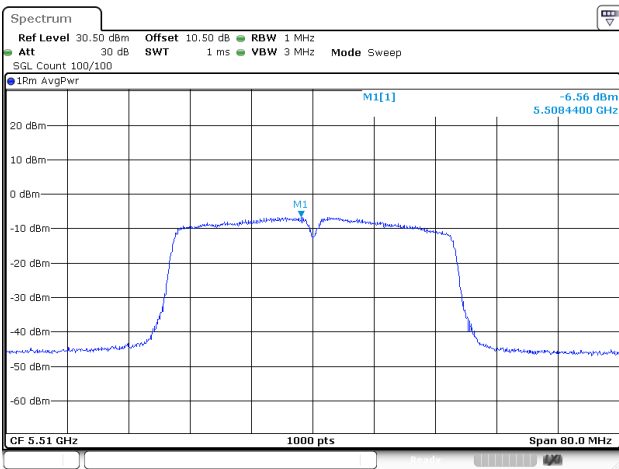
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:17:43

802.11ac40_5710MHz_Chain 0



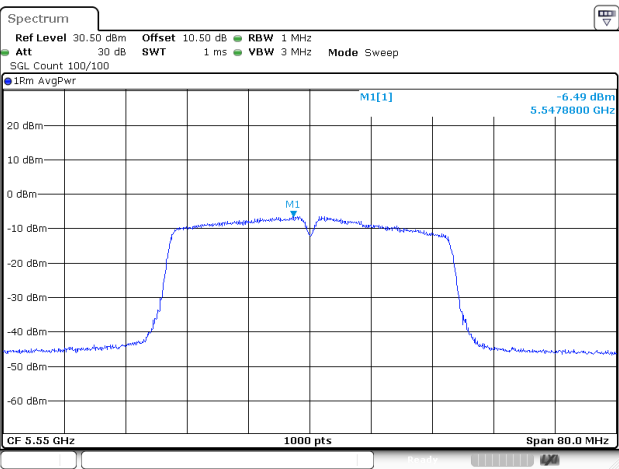
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:18:28

802.11ac40_5510MHz_Chain 1



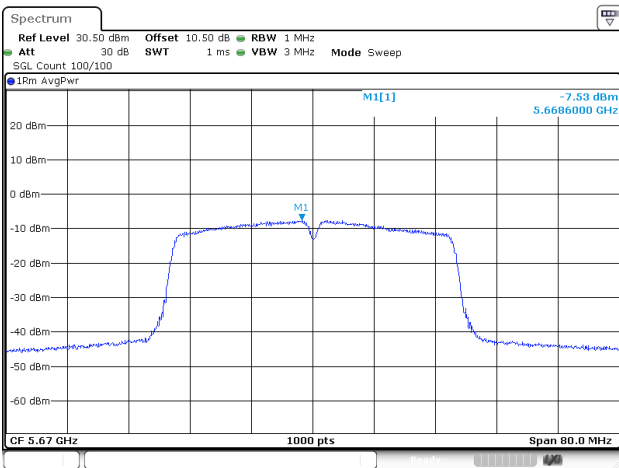
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:22:43

802.11ac40_5550MHz_Chain 1



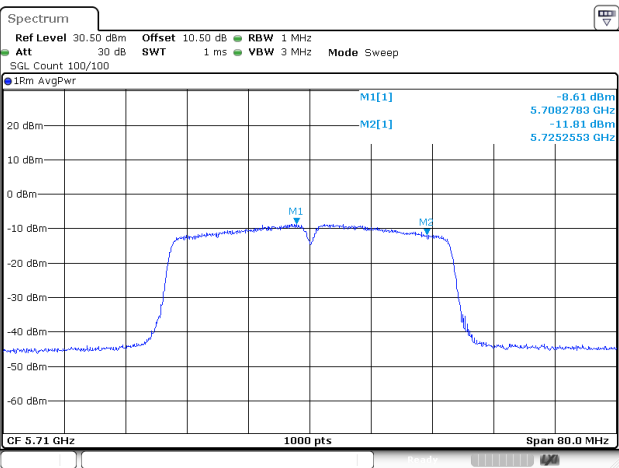
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:23:12

802.11ac40_5670MHz_Chain 1



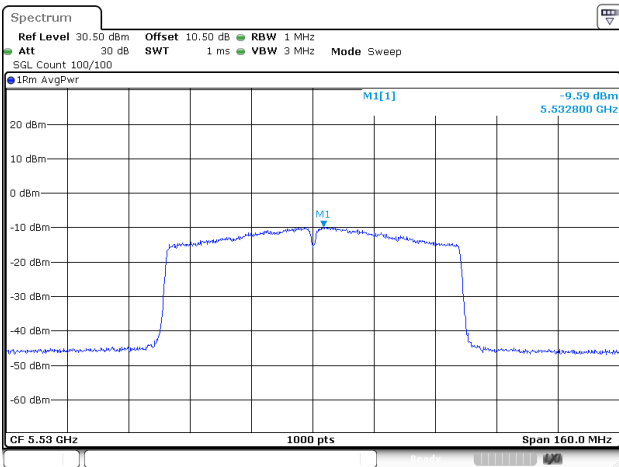
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:24:09

802.11ac40_5710MHz_Chain 1



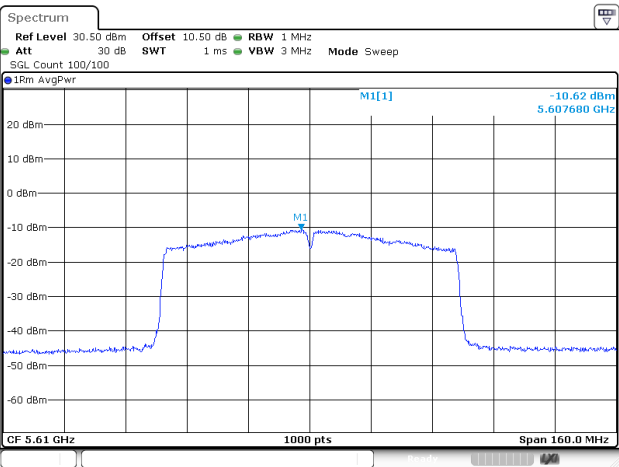
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:24:51

802.11ac80_5530MHz_Chain 0



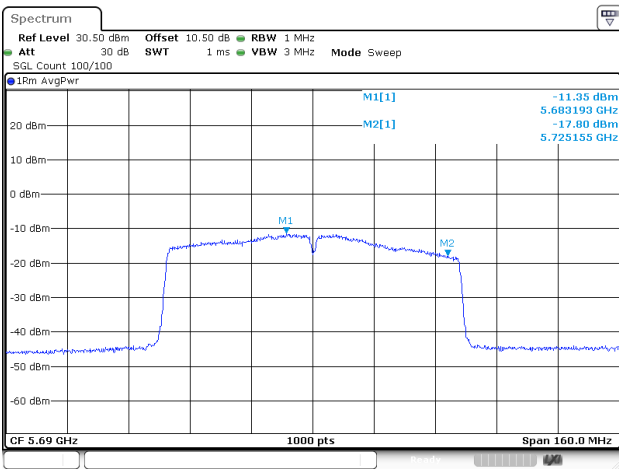
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:19:18

802.11ac80_5610MHz_Chain 0



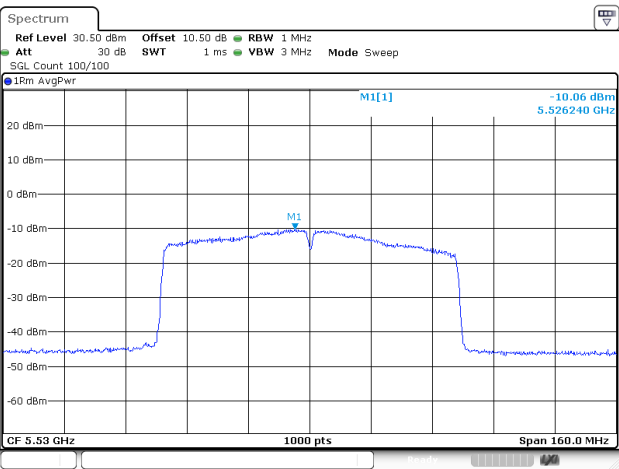
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:19:48

802.11ac80_5690MHz_Chain 0



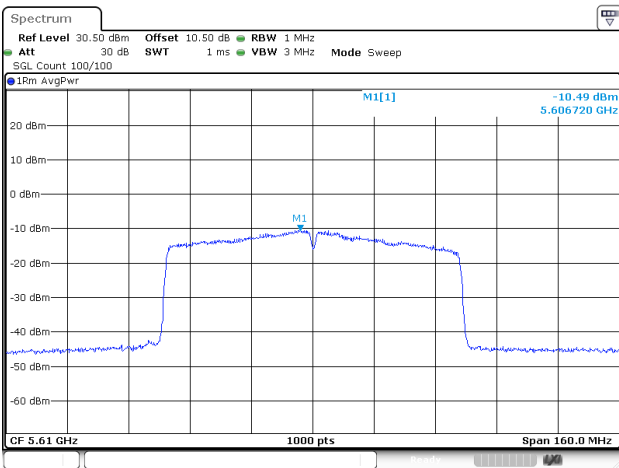
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:21:07

802.11ac80_5530MHz_Chain 1



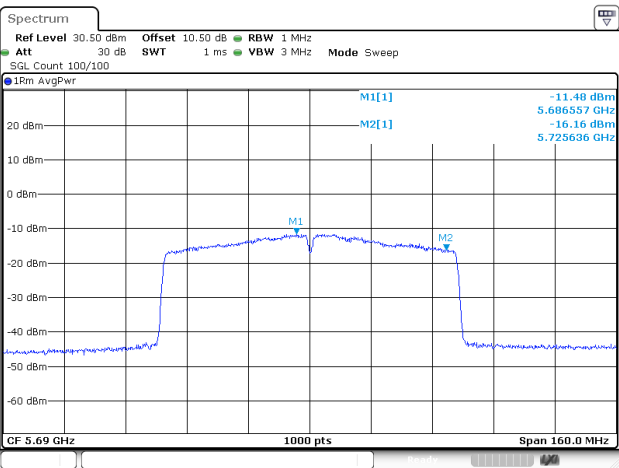
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:26:11

802.11ac80_5610MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:26:45

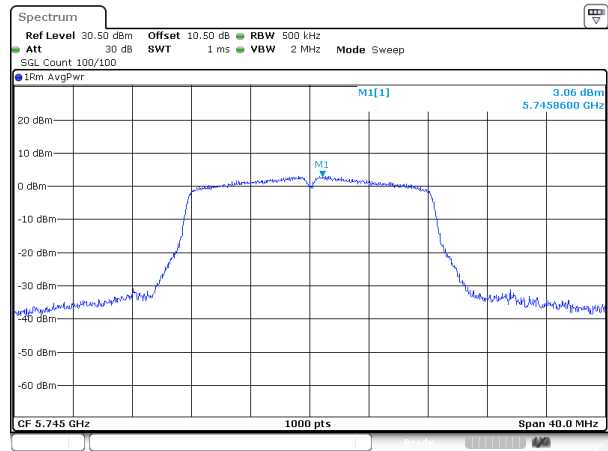
802.11ac80_5690MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 12.AUG.2025 10:27:39

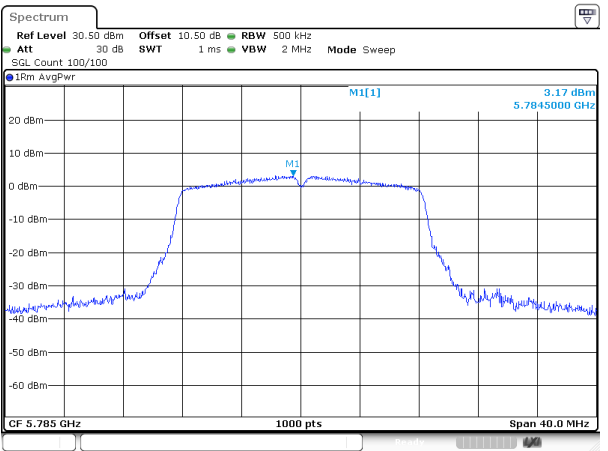
5725-5850MHz

802.11a_5745MHz_Chain 0



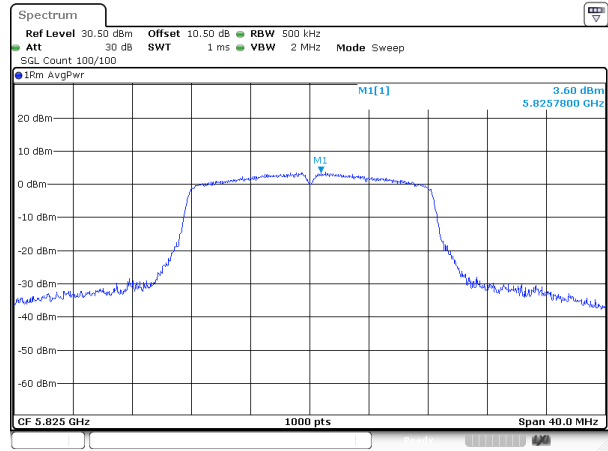
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:31:33

802.11a_5785MHz_Chain 0



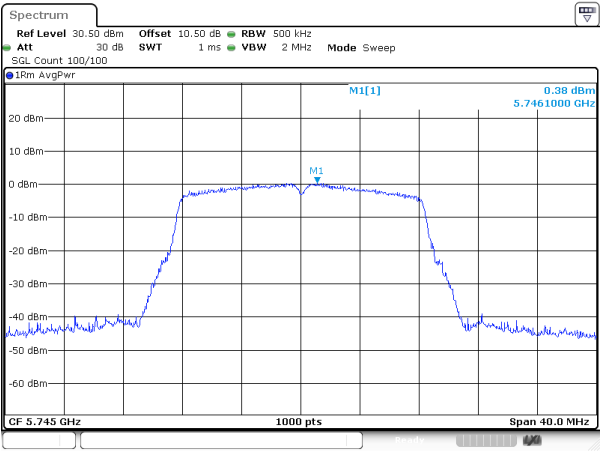
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:34:13

802.11a_5825MHz_Chain 0



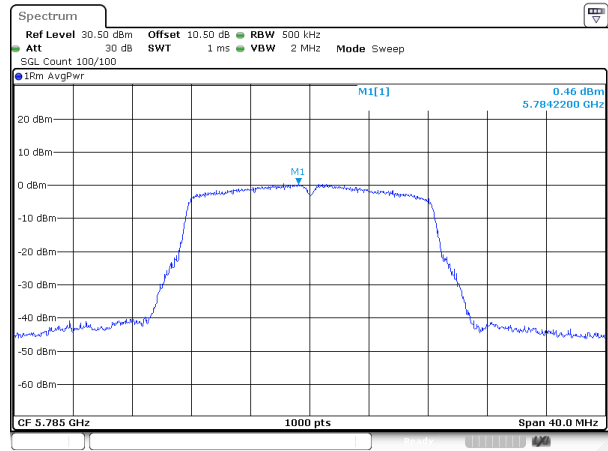
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 19:36:37

802.11a_5745MHz_Chain 1



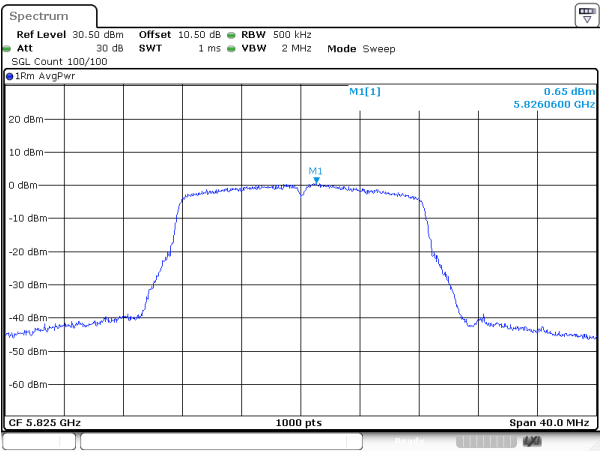
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:01:22

802.11a_5785MHz_Chain 1



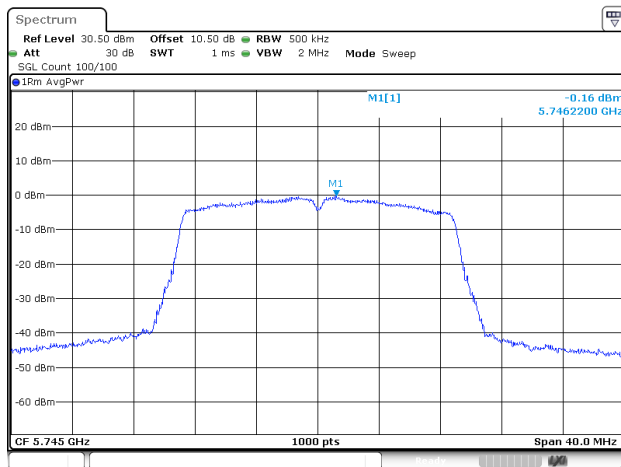
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:05:46

802.11a_5825MHz_Chain 1



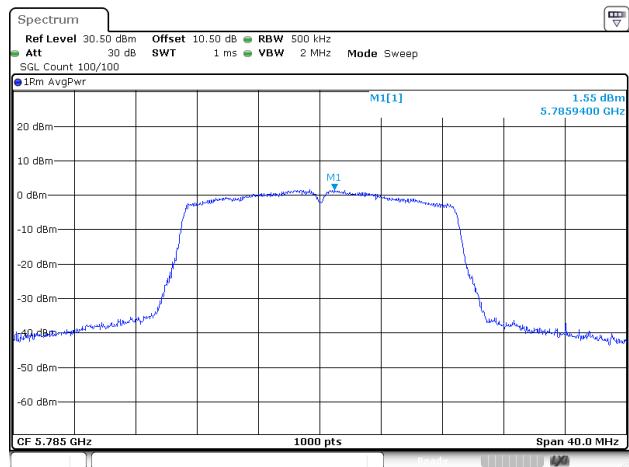
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:07:59

802.11ac20_5745MHz_Chain 0



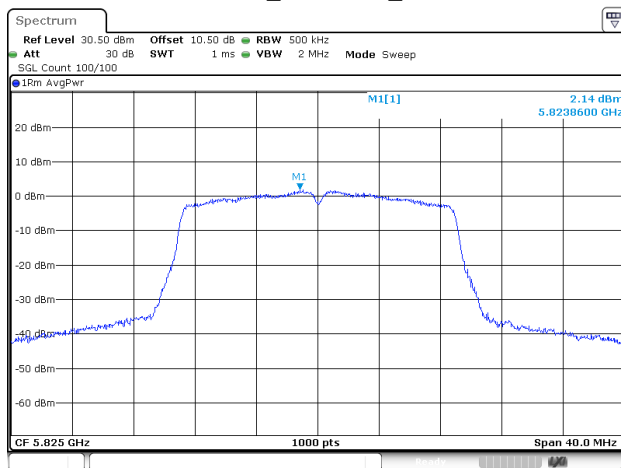
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:55:14

802.11ac20_5785MHz_Chain 0



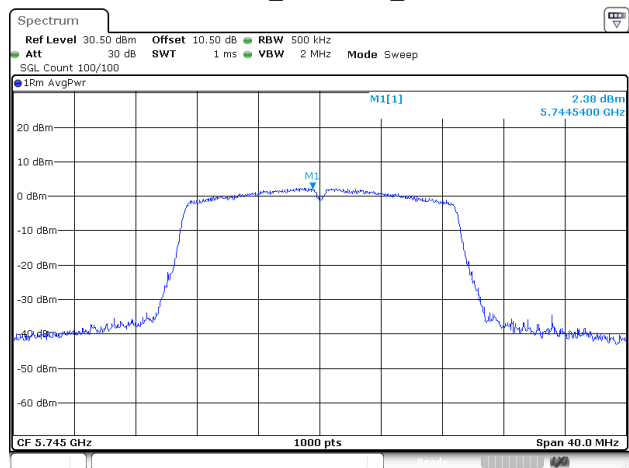
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 14:59:05

802.11ac20_5825MHz_Chain 0



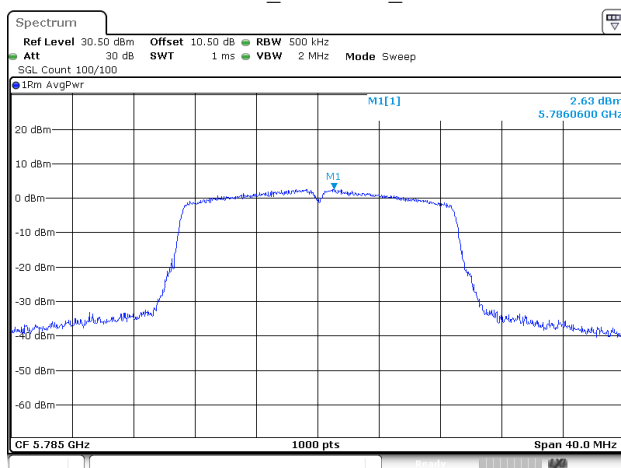
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:02:09

802.11ac20_5745MHz_Chain 1



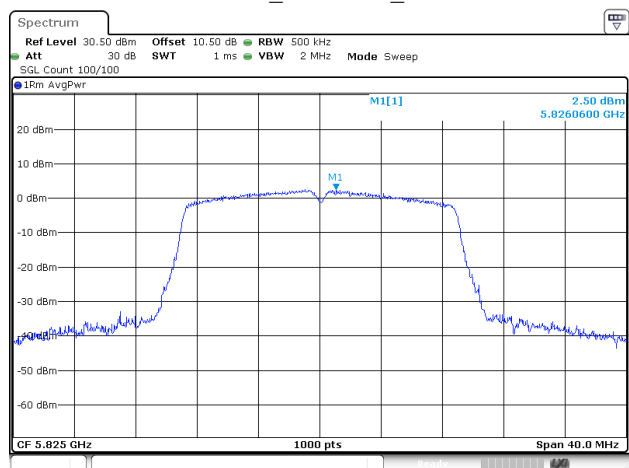
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:42:23

802.11ac20_5785MHz_Chain 1



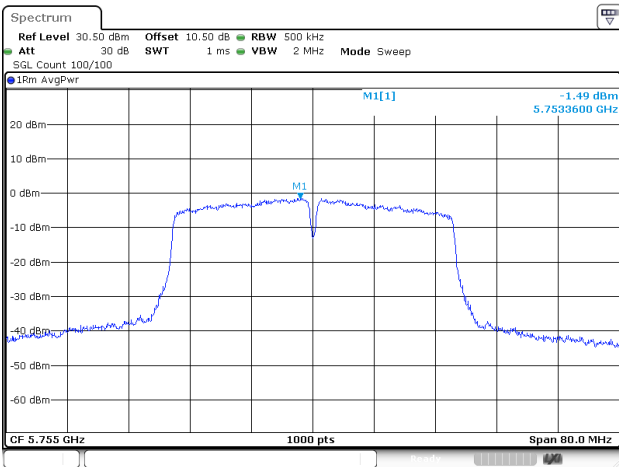
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:44:58

802.11ac20_5825MHz_Chain 1



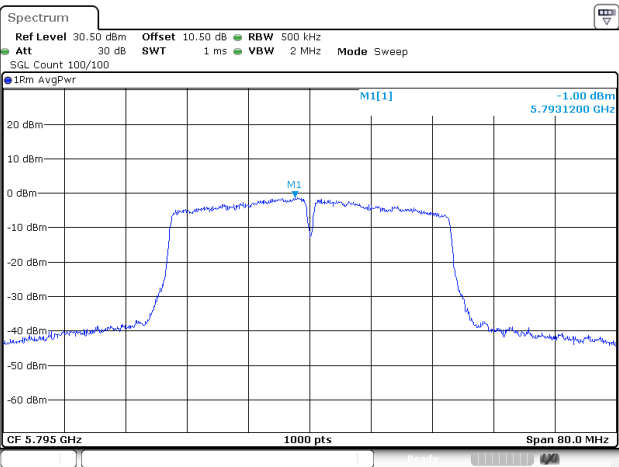
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:47:55

802.11ac40_5755MHz_Chain 0



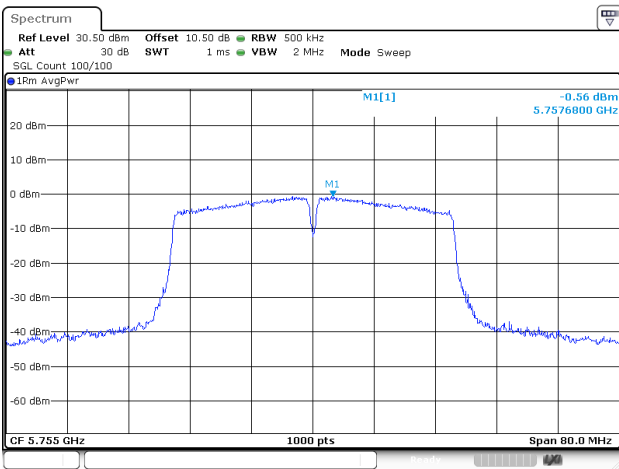
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:03:40

802.11ac40_5795MHz_Chain 0



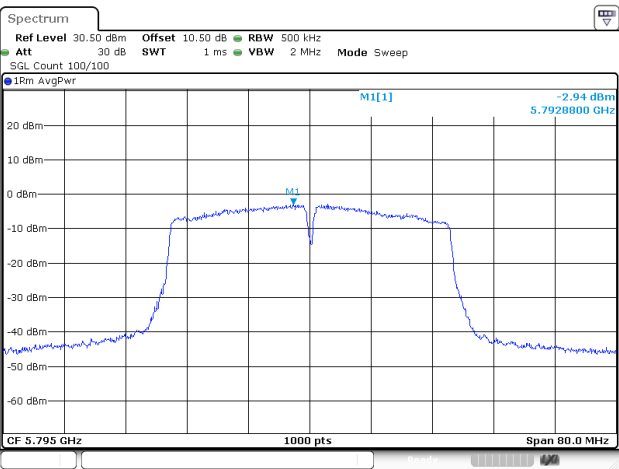
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:05:31

802.11ac40_5755MHz_Chain 1



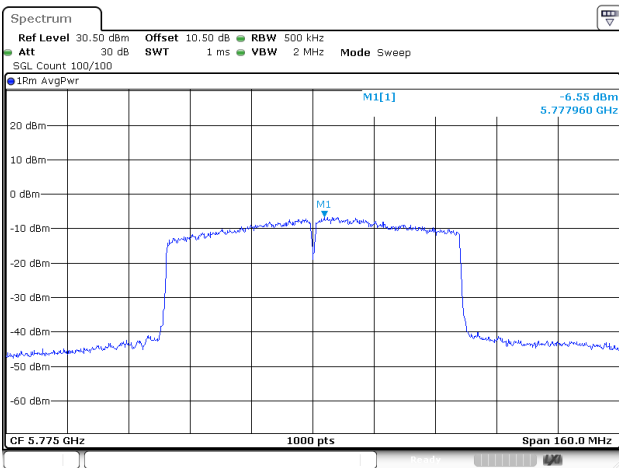
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:49:41

802.11ac40_5795MHz_Chain 1



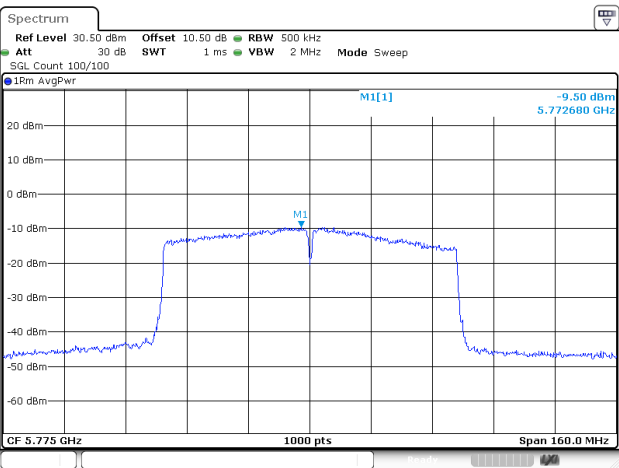
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 23.JUL.2025 15:51:47

802.11ac80_5775MHz_Chain 0



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 15.JUL.2025 20:05:51

802.11ac80_5775MHz_Chain 1



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 16.JUL.2025 14:20:11

Duty Cycle**Test Information:**

Sample No.:	356Q-3	Test Date:	2025/08/06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

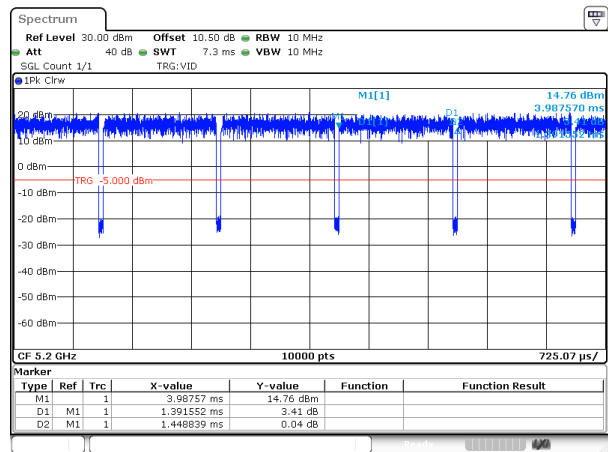
Temperature: (°C)	23.4~28.7	Relative Humidity: (%)	42~56	ATM Pressure: (kPa)	99.7~99.9
-----------------------------	-----------	----------------------------------	-------	-------------------------------	-----------

Test Data:**Chain 0**

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.392	1.449	96.07	0.17	718	1
802.11ac20	5200	1.310	1.367	95.83	0.18	763	1
802.11ac40	5190	0.655	0.711	92.12	0.36	1527	2
802.11ac80	5210	0.324	0.379	85.49	0.68	3086	5

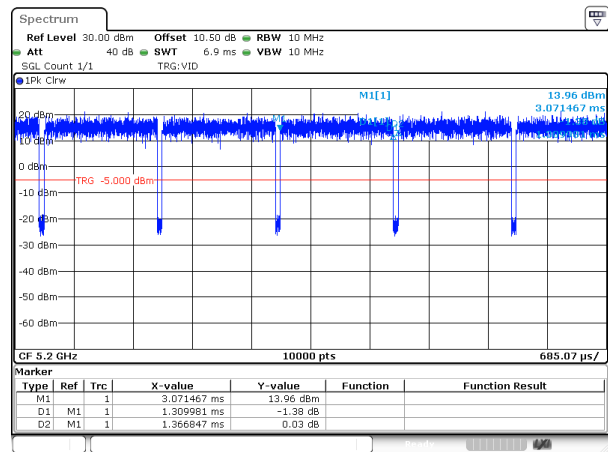
$$\text{Duty Cycle} = \text{Ton}/(\text{Ton}+\text{Toff})*100\%$$

802.11a_5200MHz



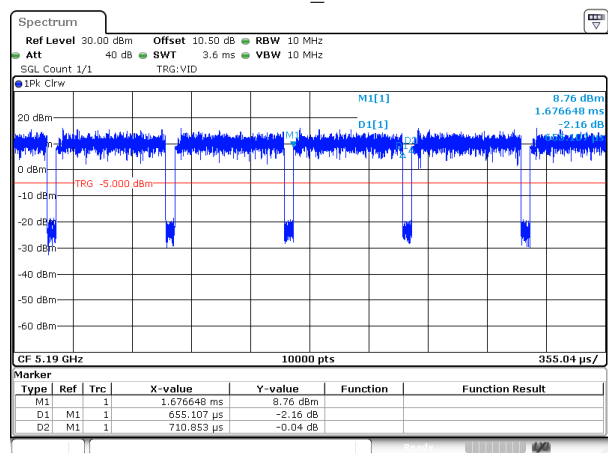
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 6.AUG.2025 11:51:22

802.11ac20_5200MHz



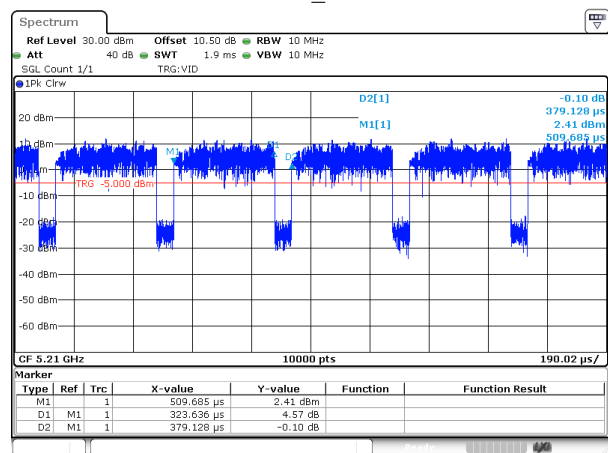
ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 6.AUG.2025 12:04:31

802.11ac40_5190MHz



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 6.AUG.2025 12:05:17

802.11ac80_5210MHz



ProjectNo.:2501U16912E-RF Tester:Rainbow Zhu
Date: 6.AUG.2025 12:45:24

RF EXPOSURE EVALUATION

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Result

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

For worst case:

Mode	Frequency (MHz)	Antenna Gain [#]		Max Tune-up Power [#]		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wi-Fi	2412-2462	7.13	5.16	26.5	446.68	20	0.4585	1.0
5G Wi-Fi	5180-5240	7.00	5.01	18.5	70.79	20	0.0706	1.0
	5260-5320	7.00	5.01	19.0	79.43	20	0.0792	1.0
	5500-5720	7.00	5.01	17.0	50.12	20	0.0500	1.0
	5745-5825	7.00	5.01	19.0	79.43	20	0.0792	1.0

Note:

- 1) The tune up conducted power and antenna gain was declared by the applicant.
- 2) For the Wi-Fi mode, the antenna gain should be the directional gain.
- 3) The 2.4G and 5G Wi-Fi can transmit at same time.

Simultaneous transmitting consideration (worst case):

The ratio= $MPE_{2.4G}/limit + MPE_{5.3G}/limit = 0.4585/1.0 + 0.0792/1.0 = 0.538 < 1.0$

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

EUT PHOTOGRAPHS

Please refer to the attachment 2501U16912E-RF External photo and 2501U16912E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501U16912E-RFB Test Setup photo.

***** **END OF REPORT** *****