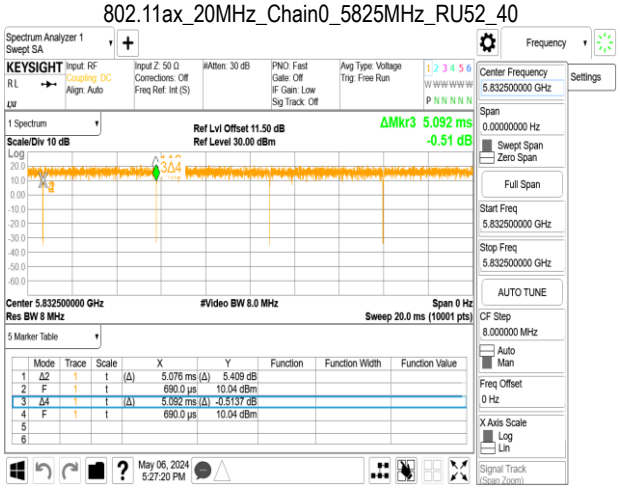
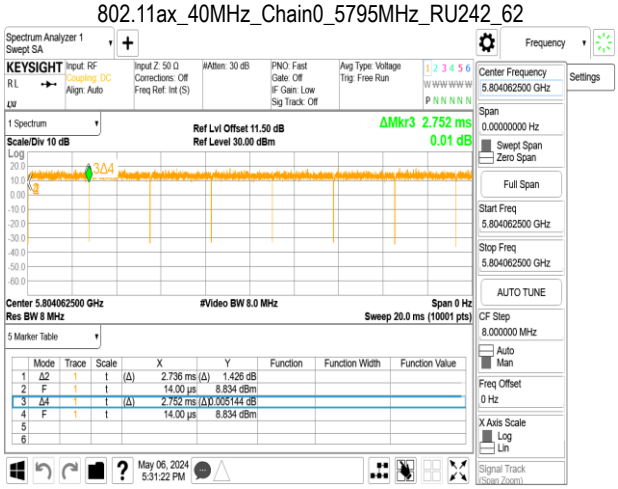
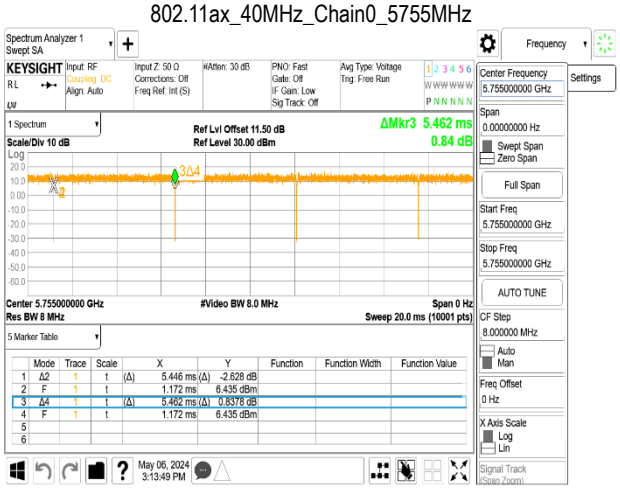
802.11ax_20MHz_Chain0_5825MHz_RU52_40



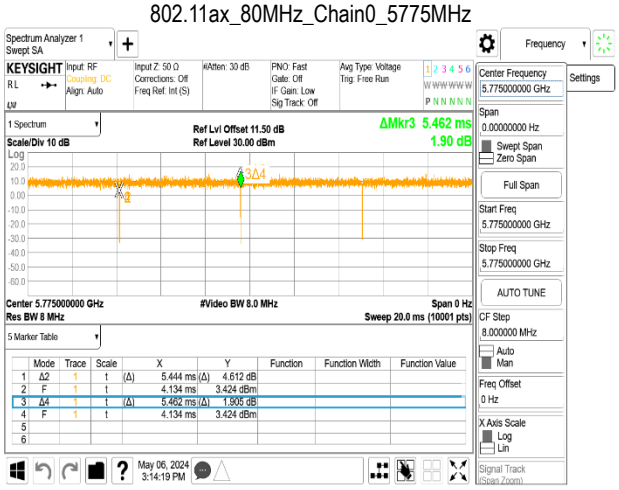
802.11ax_40MHz_Chain0_5795MHz_RU242_62



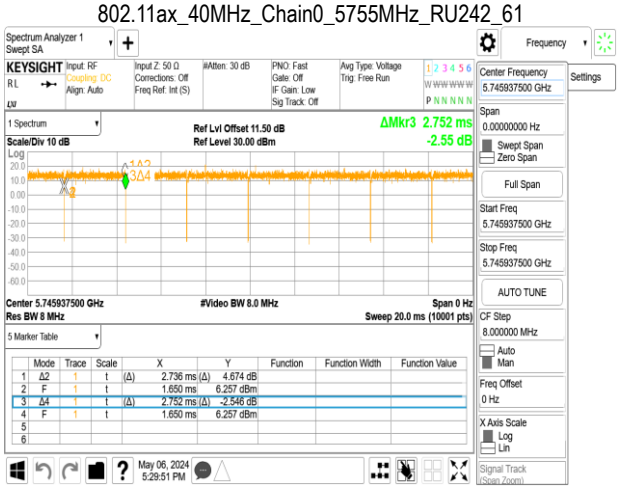
802.11ax_40MHz_Chain0_5755MHz



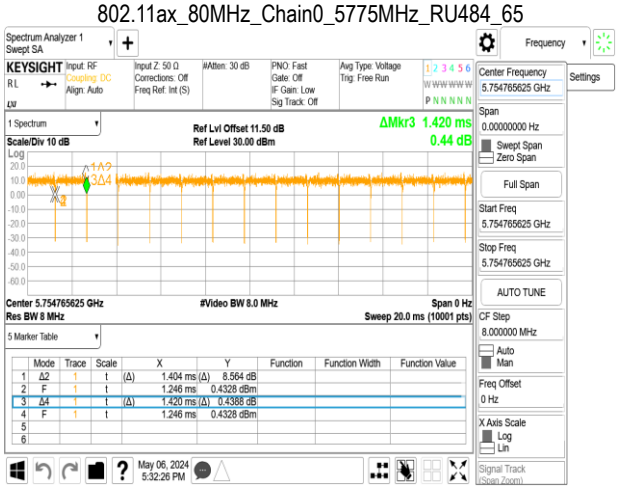
802.11ax_80MHz_Chain0_5775MHz



802.11ax_40MHz_Chain0_5755MHz_RU242_61



802.11ax_80MHz_Chain0_5775MHz_RU484_65



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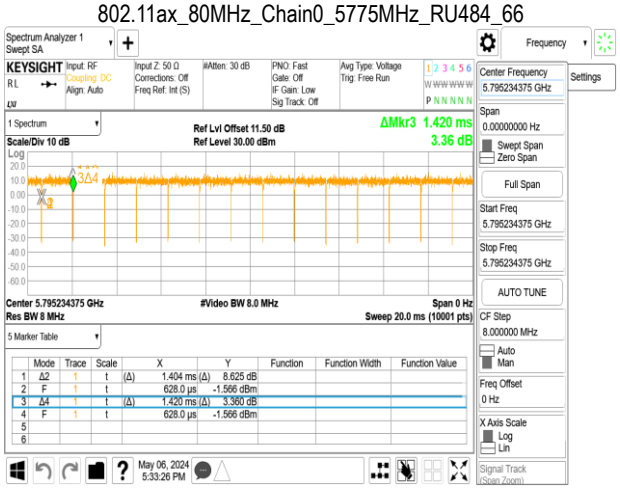
802.11ax_80MHz_Chain0_5775MHz_RU484_66



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	Δ2	1	t	(Δ) 1.404 ms	(Δ) 8.625 dB			
2	F	1	t	628.0 µs	-1.566 dBm			
3	Δ4	1	t	(Δ) 1.420 ms	(Δ) 3.360 dB			
4	F	1	t	628.0 µs	-1.566 dBm			
5								
6								

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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	6	18	51.323	17.10	30	PASS
157	5785	6	18	55.631	17.45	30	PASS
165	5825	6	18	54.994	17.40	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	6	17.5	56.016	17.48	30	PASS
157	5785	6	17.5	56.275	**17.50**	30	PASS
165	5825	6	17	55.375	17.43	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	17	43.998	16.43	30	PASS
157	5785	MCS0	16.5	43.595	16.39	30	PASS
165	5825	MCS0	17	42.799	16.31	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	16	44.405	16.47	30	PASS
157	5785	MCS0	16.5	43.897	16.42	30	PASS
165	5825	MCS0	16	43.395	16.37	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
149	5745	MCS0	15.5	14.85	15.42	65.449	18.16	30	PASS
157	5785	MCS0	15.5	15.01	15.46	66.919	18.26	30	PASS
165	5825	MCS0	15.5	14.87	15.79	68.691	**18.37**	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	16.5	42.488	16.28	30	PASS
159	5795	MCS0	16.5	43.577	16.39	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	16	43.178	16.35	30	PASS
159	5795	MCS0	16	44.490	16.48	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
151	5755	MCS0	15.5	15.32	15.62	70.559	**18.49**	30	PASS
159	5795	MCS0	15.5	15.38	15.52	70.202	18.46	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	17	43.779	16.413	30	PASS
157	5785	MCS0	16.5	42.782	16.313	30	PASS
165	5825	MCS0	16.5	41.712	16.203	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	16.5	44.082	16.44	30	PASS
157	5785	MCS0	16.5	43.377	16.37	30	PASS
165	5825	MCS0	16	41.905	16.22	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
149	5745	MCS0	15.5	14.78	15.39	64.694	18.11	30	PASS
157	5785	MCS0	15.5	14.97	15.43	66.359	18.22	30	PASS
165	5825	MCS0	15.5	14.82	15.73	67.791	**18.31**	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	16.5	41.712	16.20	30	PASS
159	5795	MCS0	16.5	40.951	16.12	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	16	42.979	16.33	30	PASS
159	5795	MCS0	16	43.981	16.43	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
151	5755	MCS0	15.5	15.28	15.51	69.334	18.41	30	PASS
159	5795	MCS0	15.5	15.34	15.53	69.967	**18.45**	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	16	33.070	15.19	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	15.5	33.763	15.28	30	PASS

802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
155	5775	MCS0	15	14.06	14.67	54.832	**17.39**	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	full	17	44.082	16.44	30	PASS
		MCS0	26/0	16.5	43.486	16.38	30	PASS
		MCS0	52/37	16.5	42.106	16.24	30	PASS
		MCS0	106/53	16.5	41.921	16.22	30	PASS
157	5785	MCS0	full	16.5	43.678	16.40	30	PASS
165	5825	MCS0	full	16.5	42.979	16.33	30	PASS
		MCS0	26/8	16.5	42.301	16.26	30	PASS
		MCS0	52/40	16.5	41.148	16.14	30	PASS
		MCS0	106/54	16.5	40.685	16.09	30	PASS

802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	MCS0	full	16.5	44.490	16.48	30	PASS
		MCS0	26/0	16	43.586	16.39	30	PASS
		MCS0	52/37	16	42.398	16.27	30	PASS
		MCS0	106/53	16	42.309	16.26	30	PASS
157	5785	MCS0	full	16.5	44.082	16.44	30	PASS
165	5825	MCS0	full	16	43.577	16.39	30	PASS
		MCS0	26/8	15.5	42.889	16.32	30	PASS
		MCS0	52/40	15.5	41.529	16.18	30	PASS
		MCS0	106/54	15.5	40.967	16.12	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
149	5745	MCS0	full	15.5	15.11	15.54	68.265	18.34	30	PASS
		MCS0	26/0	15	14.97	15.50	66.915	18.26	30	PASS
		MCS0	52/37	15	14.88	15.44	65.808	18.18	30	PASS
		MCS0	106/53	15	14.84	15.29	64.350	18.09	30	PASS
157	5785	MCS0	full	15.5	15.09	15.52	67.971	18.32	30	PASS
165	5825	MCS0	full	15.5	14.91	15.81	69.122	**18.40**	30	PASS
		MCS0	26/8	15	14.89	15.47	66.122	18.20	30	PASS
		MCS0	52/40	15	14.80	15.40	64.925	18.12	30	PASS
		MCS0	106/54	15	14.77	15.53	65.785	18.18	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	full	17.5	42.488	16.28	30	PASS
		MCS0	242/61	16.5	42.170	16.25	30	PASS
159	5795	MCS0	full	17	41.712	16.20	30	PASS
		MCS0	242/62	16	40.881	16.12	30	PASS

802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	MCS0	full	17	44.592	16.49	30	PASS
		MCS0	242/61	16.5	43.705	16.41	30	PASS
159	5795	MCS0	full	17	44.184	16.45	30	PASS
		MCS0	242/62	16.5	43.304	16.37	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
151	5755	MCS0	full	16.5	15.06	15.83	70.388	**18.47**	30	PASS
		MCS0	242/61	15.5	15.34	15.51	69.685	18.43	30	PASS
159	5795	MCS0	full	16	15.24	15.50	68.942	18.38	30	PASS
		MCS0	242/62	15.5	15.22	15.50	68.672	18.37	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	full	16.5	34.075	15.32	30	PASS
		MCS0	484/65	15.5	34.036	15.32	30	PASS
		MCS0	484/66	15.5	33.879	15.30	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	MCS0	full	16	35.191	15.46	30	PASS
		MCS0	484/65	15.5	35.151	15.46	30	PASS
		MCS0	484/66	15.5	34.272	15.35	30	PASS

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802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power Setting	Avg. POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
155	5775	MCS0	full	15	14.37	14.58	56.117	**17.49**	30	PASS
		MCS0	484/65	14.5	14.32	14.49	55.150	17.42	30	PASS
		MCS0	484/66	14.5	14.27	14.50	54.906	17.40	30	PASS

9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	51.323	17.10	30	PASS
157	5785	**55.631**	**17.45**	30	PASS
165	5825	54.994	17.40	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	56.016	17.48	30	PASS
157	5785	**56.275**	**17.50**	30	PASS
165	5825	55.375	17.43	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	**43.998**	**16.43**	30	PASS
157	5785	43.595	16.39	30	PASS
165	5825	42.799	16.31	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	**44.405**	**16.47**	30	PASS
157	5785	43.897	16.42	30	PASS
165	5825	43.395	16.37	30	PASS

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802.11n_HT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
149	5745	14.85	15.42	65.449	18.16	30	PASS
157	5785	15.01	15.46	66.919	18.26	30	PASS
165	5825	14.87	15.79	**68.691**	**18.37**	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	42.488	16.28	30	PASS
159	5795	**43.577**	**16.39**	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	43.178	16.35	30	PASS
159	5795	**44.490**	**16.48**	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
151	5755	15.32	15.62	**70.559**	**18.49**	30	PASS
159	5795	15.38	15.52	70.202	18.46	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	**43.779**	**16.41**	30	PASS
157	5785	42.782	16.31	30	PASS
165	5825	41.712	16.20	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	**44.082**	**16.44**	30	PASS
157	5785	43.377	16.37	30	PASS
165	5825	41.905	16.22	30	PASS

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802.11ac_VHT20_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
149	5745	14.78	15.39	64.694	18.11	30	PASS
157	5785	14.97	15.43	66.359	18.22	30	PASS
165	5825	14.82	15.73	**67.791**	**18.31**	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	**41.712**	**16.20**	30	PASS
159	5795	40.951	16.12	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	42.979	16.33	30	PASS
159	5795	**43.981**	**16.43**	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
151	5755	15.28	15.51	69.334	18.41	30	PASS
159	5795	15.34	15.53	**69.967**	**18.45**	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
151	5755	15.28	15.51	69.334	18.41	30	PASS
159	5795	15.34	15.53	**69.967**	**18.45**	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	**33.070**	**15.19**	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	**33.763**	**15.28**	30	PASS

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802.11ac_VHT80_2TX

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
155	5775	14.06	14.67	**54.832**	**17.39**	30	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	full	**44.082**	**16.44**	30	PASS
		26/0	43.486	16.38	30	PASS
		52/37	42.106	16.24	30	PASS
		106/53	41.921	16.22	30	PASS
157	5785	full	43.678	16.40	30	PASS
165	5825	full	42.979	16.33	30	PASS
		26/8	42.301	16.26	30	PASS
		52/40	41.148	16.14	30	PASS
		106/54	40.685	16.09	30	PASS

802.11ax_HE20_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
149	5745	full	**44.490**	**16.48**	30	PASS
		26/0	43.586	16.39	30	PASS
		52/37	42.398	16.27	30	PASS
		106/53	42.309	16.26	30	PASS
157	5785	full	44.082	16.44	30	PASS
165	5825	full	43.577	16.39	30	PASS
		26/8	42.889	16.32	30	PASS
		52/40	41.529	16.18	30	PASS
		106/54	40.967	16.12	30	PASS

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802.11ax_HE20_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
149	5745	full	15.11	15.54	68.265	18.34	30	PASS
		26/0	14.97	15.50	66.915	18.26	30	PASS
		52/37	14.88	15.44	65.808	18.18	30	PASS
		106/53	14.84	15.29	64.350	18.09	30	PASS
157	5785	full	15.09	15.52	67.971	18.32	30	PASS
165	5825	full	14.91	15.81	**69.122**	**18.40**	30	PASS
		26/8	14.89	15.47	66.122	18.20	30	PASS
		52/40	14.80	15.40	64.925	18.12	30	PASS
		106/54	14.77	15.53	65.785	18.18	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	full	**42.488**	**16.28**	30	PASS
		242/61	42.170	16.25	30	PASS
159	5795	full	41.712	16.20	30	PASS
		242/62	40.881	16.12	30	PASS

802.11ax_HE40_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
151	5755	full	**44.592**	**16.49**	30	PASS
		242/61	43.705	16.41	30	PASS
159	5795	full	44.184	16.45	30	PASS
		242/62	43.304	16.37	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
151	5755	full	15.06	15.83	**70.388**	**18.47**	30	PASS
		242/61	15.34	15.51	69.685	18.43	30	PASS
159	5795	full	15.24	15.50	68.942	18.38	30	PASS
		242/62	15.22	15.50	68.672	18.37	30	PASS

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802.11ax_HE80_Ch0

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	full	**34.075**	**15.32**	30	PASS
		484/65	34.036	15.32	30	PASS
		484/66	33.879	15.30	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	RU config.	TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
155	5775	full	**35.191**	**15.46**	30	PASS
		484/65	35.151	15.46	30	PASS
		484/66	34.272	15.35	30	PASS

802.11ax_HE80_2TX

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	REQUIRED LIMIT (dBm)	RESULT
			Ch0	Ch1				
155	5775	full	14.37	14.58	**56.117**	**17.49**	30	PASS
		484/65	14.32	14.49	55.150	17.42	30	PASS
		484/66	14.27	14.50	54.906	17.40	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Ponit	17dBm / MHz	23dBi
		Client device	11dBm / MHz	6dBi
U-NII-2A		All	11dBm / MHz	6dBi
U-NII-2C		All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required
If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.				

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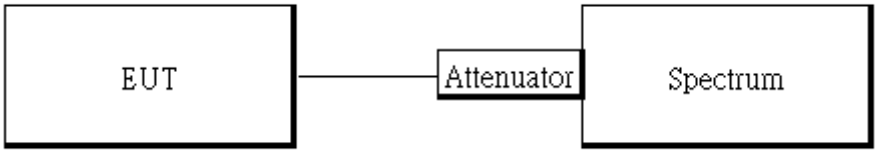
10.2 ISED Standard

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
		Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
		Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725		All	N/A	11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz
For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.				

10.3 Test Setup



10.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band**:
   Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
   For U-NII-3 Band:
   Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth,

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Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging. In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.

5. User the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98%：Record the max. reading.
   (2)Duty cycle < 98%：Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

Note:

For U-NII1, 2A, 2C and 3 Bands, when the antenna gain is greater than 6 dBi, the power spectral density limit attenuated accordingly.

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

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

where

Each antenna is driven by no more than one spatial stream;
NSS = the number of independent spatial streams of data;
NANT = the total number of antennas
$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;
G_k is the gain in dBi of the kth antenna.

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10.5 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-	1.829	0.00	2.22	4.05	30.00 dBm/500kHz	-25.95
5785	-	2.182	0.00	2.22	4.40	30.00 dBm/500kHz	-25.60
5825	-	1.674	0.00	2.22	3.89	30.00 dBm/500kHz	-26.11

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	-0.584	-0.781	0.00	2.22	4.55	28.45 dBm/500kHz	-23.90
5785	-0.468	-0.919	0.00	2.22	4.54	28.45 dBm/500kHz	-23.91
5825	-0.622	-0.598	0.00	2.22	4.62	28.45 dBm/500kHz	-23.83

POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	-3.116	-3.502	0.00	2.22	1.93	28.45 dBm/500kHz	-26.52
5795	-3.130	-3.664	0.00	2.22	1.84	28.45 dBm/500kHz	-26.61

POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	-7.247	-7.544	0.00	2.22	-2.16	28.45 dBm/500kHz	-30.61

POWER DENSITY 802.11ax HE20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5745	full	-0.769	-0.664	0.00	2.22	4.51	28.45 dBm/500kHz	-23.94
	26/0	8.992	9.300	0.00	2.22	14.38	28.45 dBm/500kHz	-14.07
	52/37	6.300	6.311	0.00	2.22	11.54	28.45 dBm/501kHz	-16.91
	106/53	2.456	3.214	0.00	2.22	8.08	28.45 dBm/502kHz	-20.37
5785	full	-0.605	-0.756	0.00	2.22	4.55	28.45 dBm/503kHz	-23.90
5825	full	-0.261	-0.366	0.00	2.22	4.92	28.45 dBm/504kHz	-23.53
	26/8	8.509	8.188	0.00	2.22	13.58	28.45 dBm/505kHz	-14.87
	52/40	5.376	5.139	0.00	2.22	10.49	28.45 dBm/506kHz	-17.96
	106/54	2.256	2.754	0.00	2.22	7.74	28.45 dBm/507kHz	-20.71

POWER DENSITY 802.11ax HE40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5755	full	-2.921	-3.260	0.00	2.22	2.14	28.45 dBm/501kHz	-26.31
	242/61	-0.901	-0.927	0.00	2.22	4.32	28.45 dBm/502kHz	-24.13
5795	full	-3.418	-3.354	0.00	2.22	1.84	28.45 dBm/503kHz	-26.61
	242/62	-0.636	-0.779	0.00	2.22	4.52	28.45 dBm/504kHz	-23.93

POWER DENSITY 802.11ax HE80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5775	full	-7.081	-7.292	0.00	2.22	-1.95	28.45 dBm/500kHz	-30.40
	484/65	-5.290	-4.625	0.00	2.22	0.29	28.45 dBm/501kHz	-28.16
	484/66	-4.782	-5.254	0.00	2.22	0.22	28.45 dBm/502kHz	-28.23

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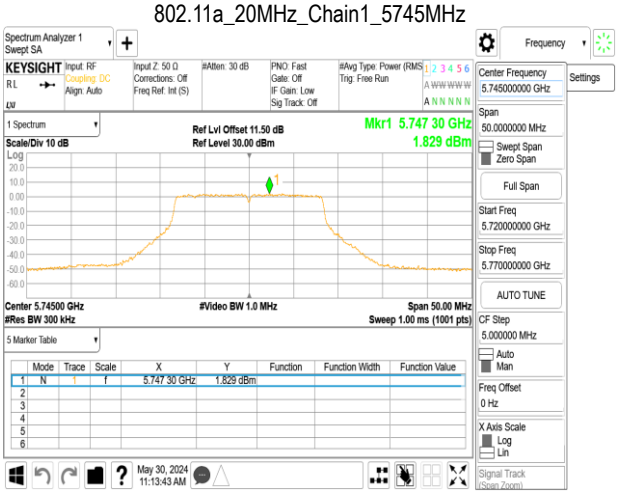
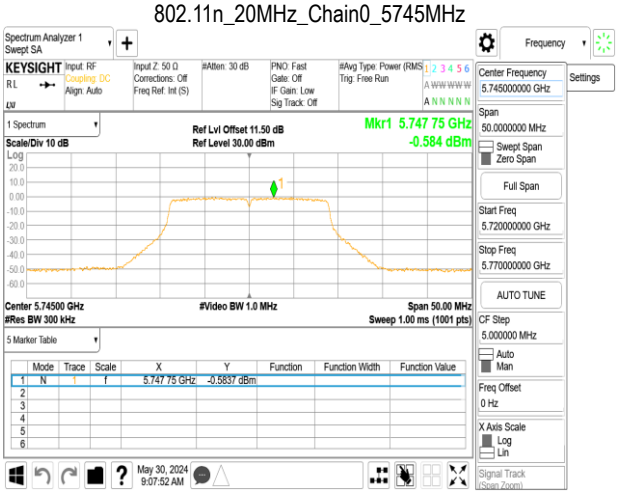
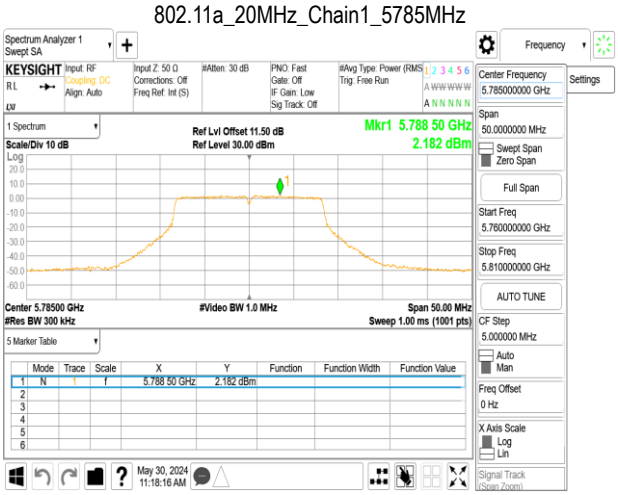
802.11a_20MHz_Chain1_5745MHz



802.11n_20MHz_Chain0_5745MHz

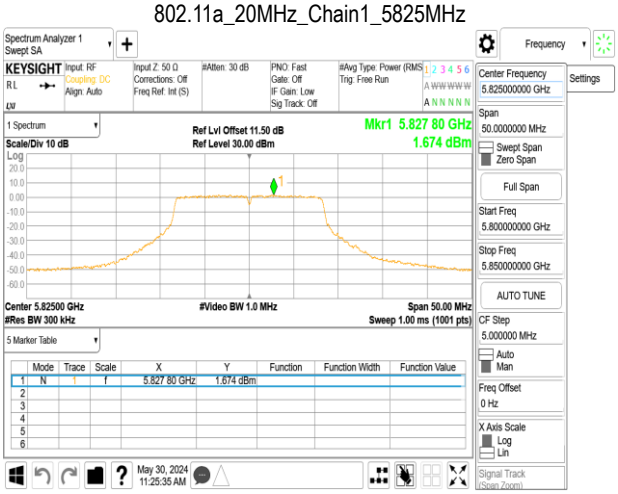


802.11a_20MHz_Chain1_5785MHz

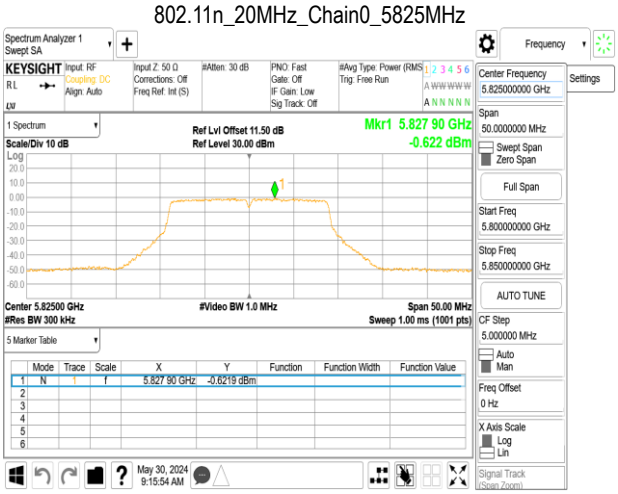


802.11n_20MHz_Chain0_5785MHz

802.11a_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain0_5825MHz



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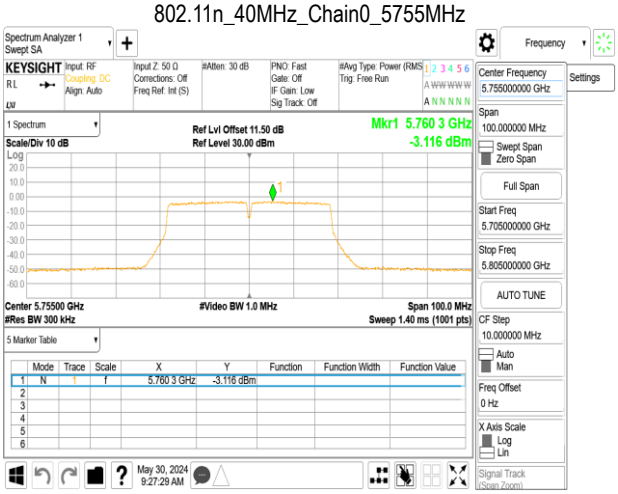
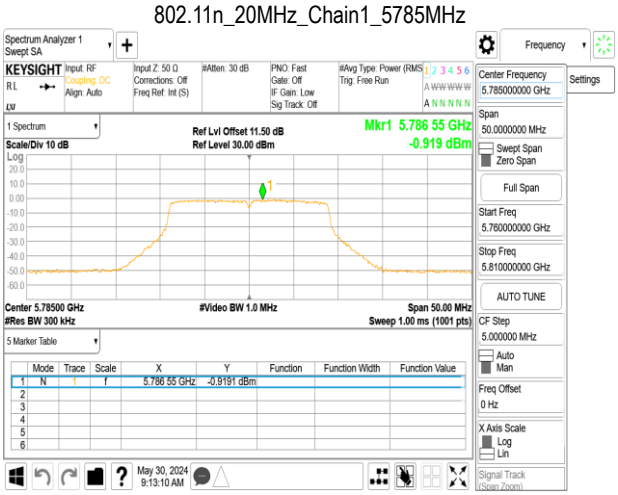
802.11n_20MHz_Chain1_5745MHz

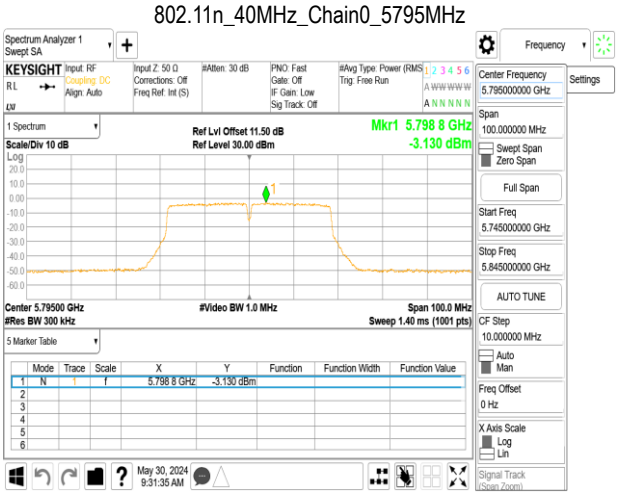
802.11n_40MHz_Chain0_5755MHz



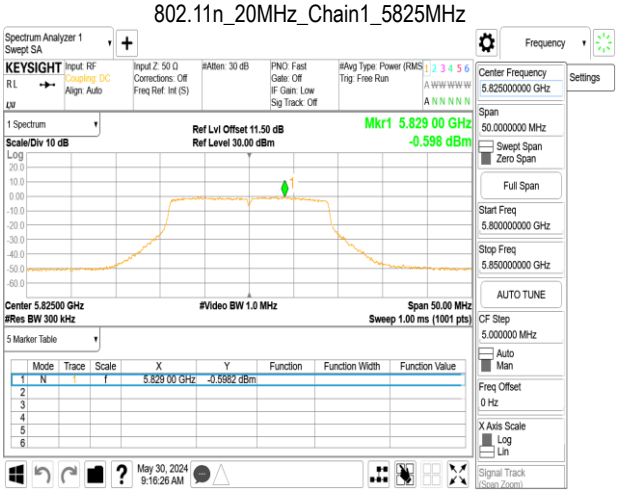
802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_20MHz_Chain1_5825MHz



802.11n_40MHz_Chain1_5755MHz

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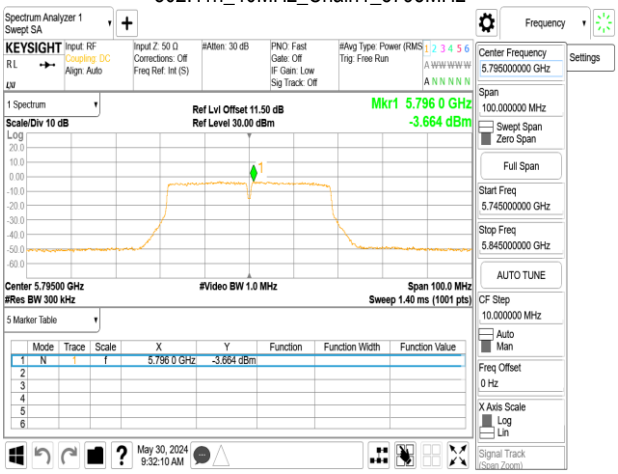
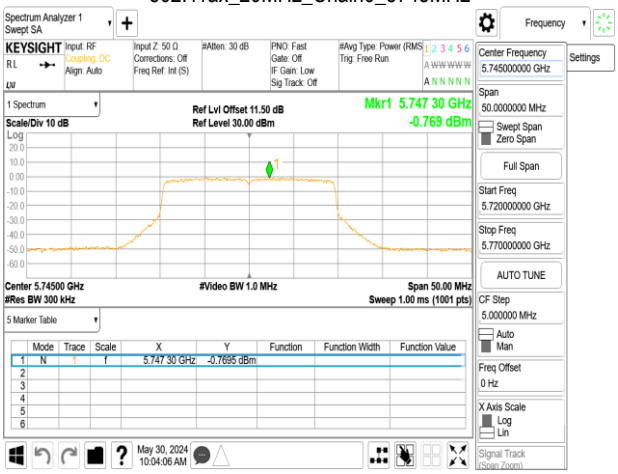
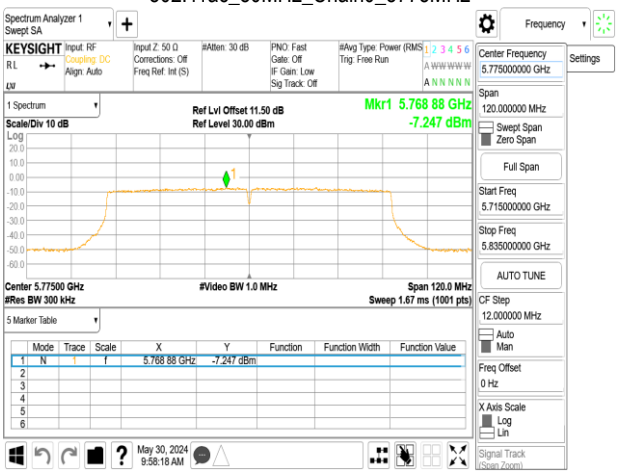
802.11n_40MHz_Chain1_5795MHz



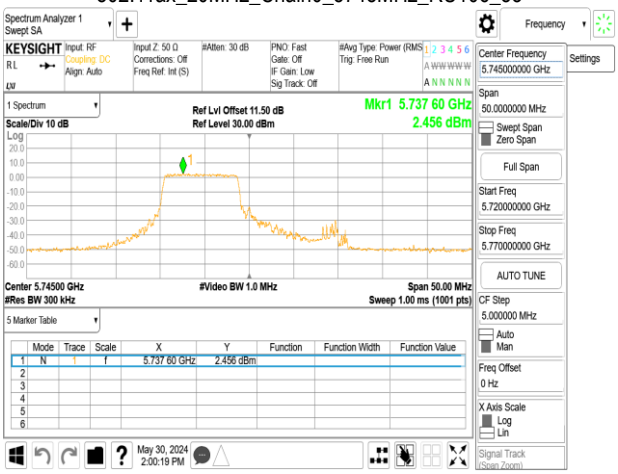
802.11ax_20MHz_Chain0_5745MHz



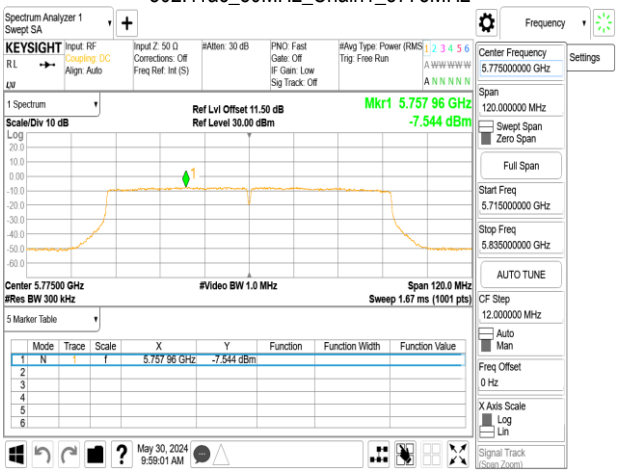
802.11ac_80MHz_Chain0_5775MHz



802.11ax_20MHz_Chain0_5745MHz_RU106_53



802.11ac_80MHz_Chain1_5775MHz



802.11ax_20MHz_Chain0_5745MHz_RU26_0

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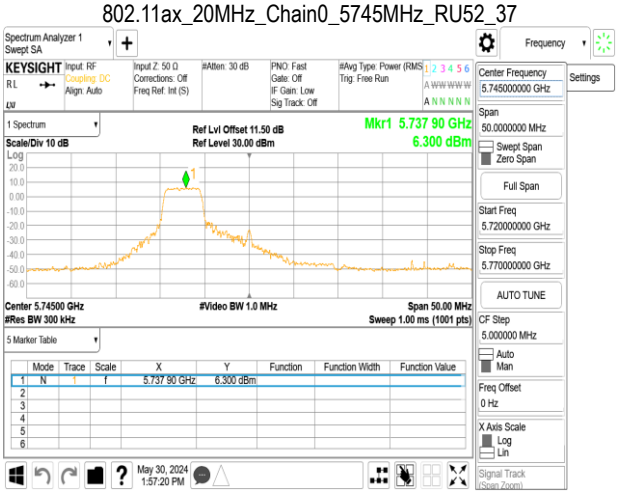
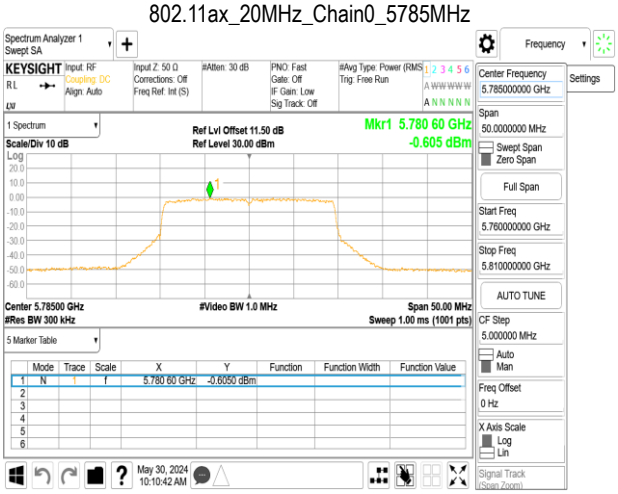
802.11ax_20MHz_Chain0_5745MHz_RU52_37



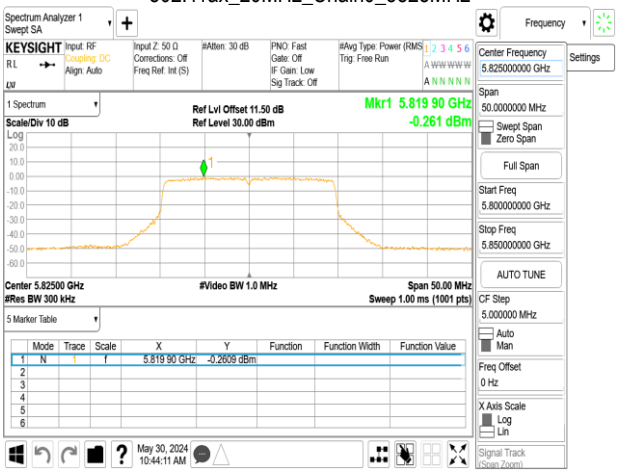
802.11ax_20MHz_Chain0_5825MHz_RU106_54

802.11ax_20MHz_Chain0_5785MHz



802.11ax_20MHz_Chain0_5825MHz_RU26_8

802.11ax_20MHz_Chain0_5825MHz



802.11ax_20MHz_Chain0_5825MHz_RU52_40

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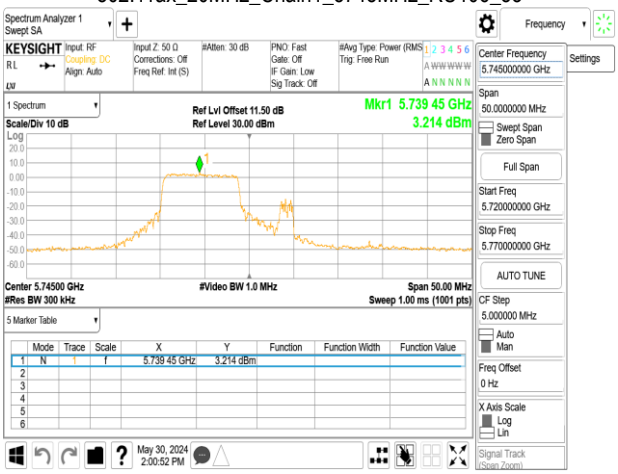
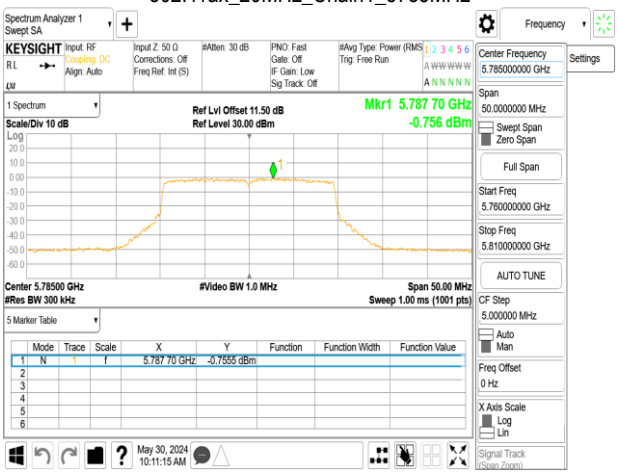
802.11ax_20MHz_Chain1_5745MHz

802.11ax_20MHz_Chain1_5745MHz_RU52_37

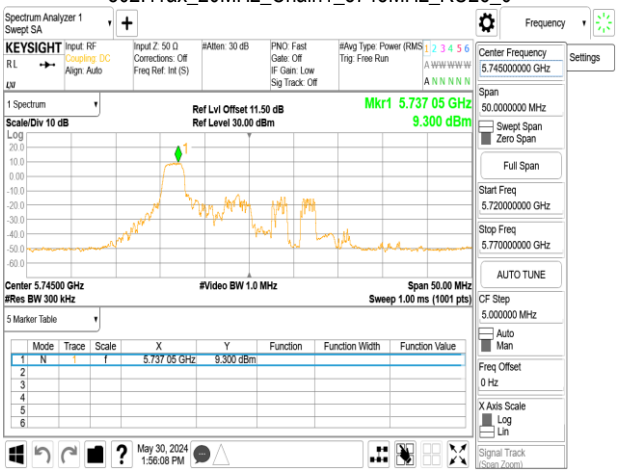
802.11ax_20MHz_Chain1_5745MHz_RU106_53



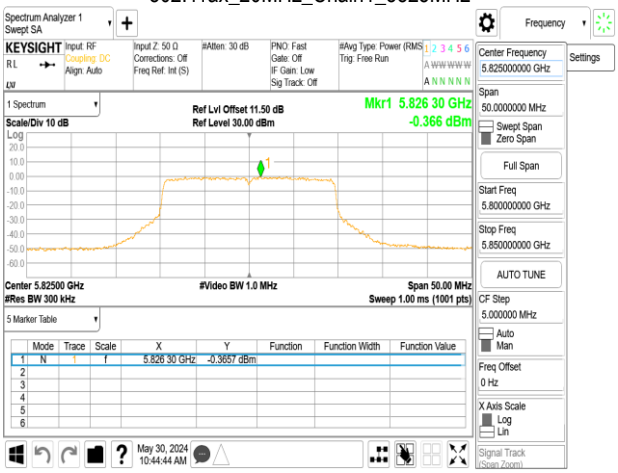
802.11ax_20MHz_Chain1_5785MHz



802.11ax_20MHz_Chain1_5745MHz_RU26_0



802.11ax_20MHz_Chain1_5825MHz



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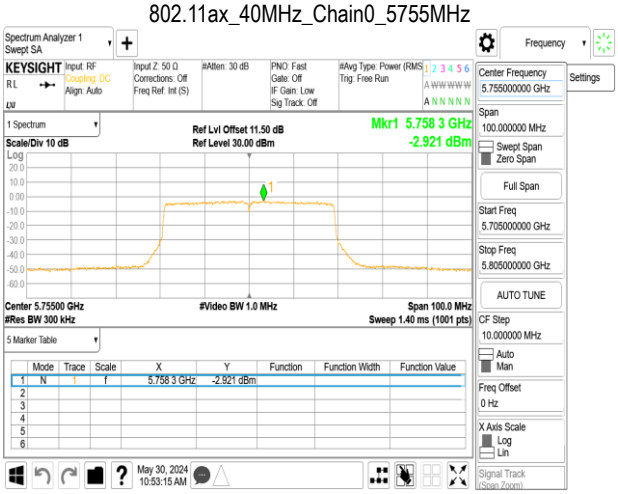
802.11ax_20MHz_Chain1_5825MHz_RU106_54

802.11ax_40MHz_Chain0_5755MHz

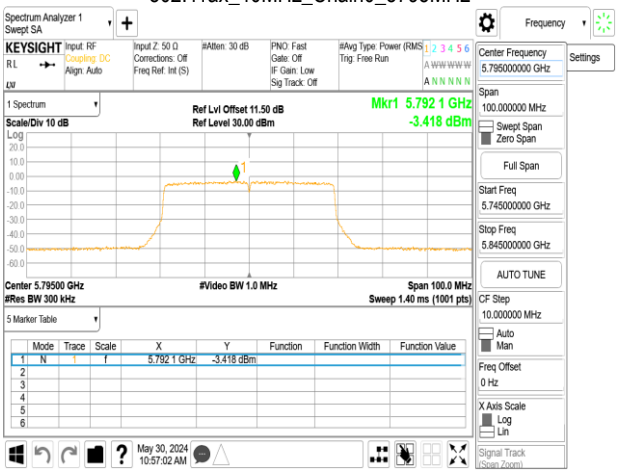


802.11ax_20MHz_Chain1_5825MHz_RU26_8

802.11ax_40MHz_Chain0_5755MHz_RU242_61

802.11ax_20MHz_Chain1_5825MHz_RU52_40

802.11ax_40MHz_Chain0_5795MHz



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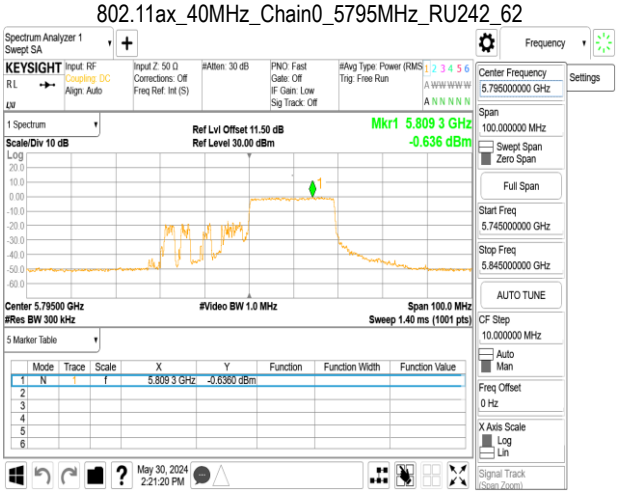
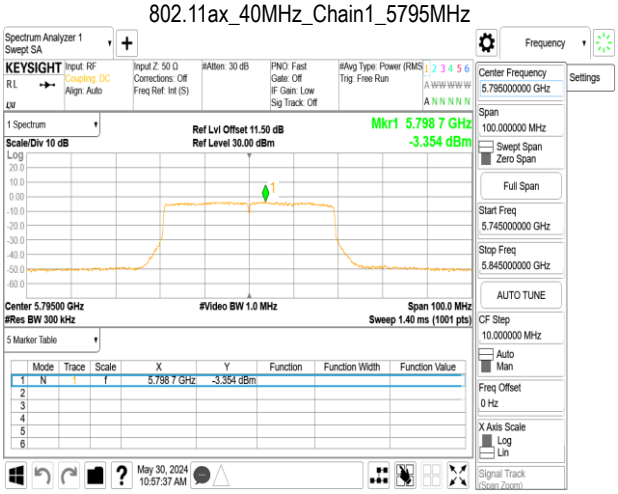
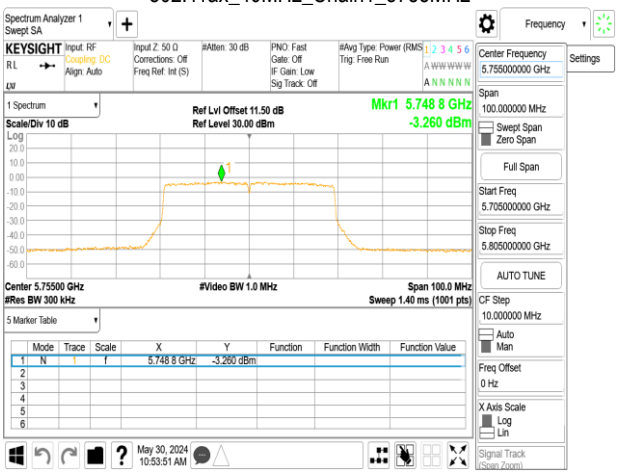
802.11ax_40MHz_Chain0_5795MHz_RU242_62



802.11ax_40MHz_Chain1_5795MHz

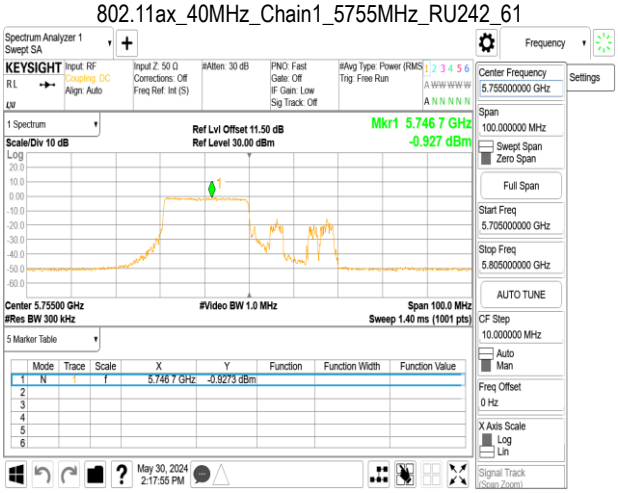


802.11ax_40MHz_Chain1_5755MHz

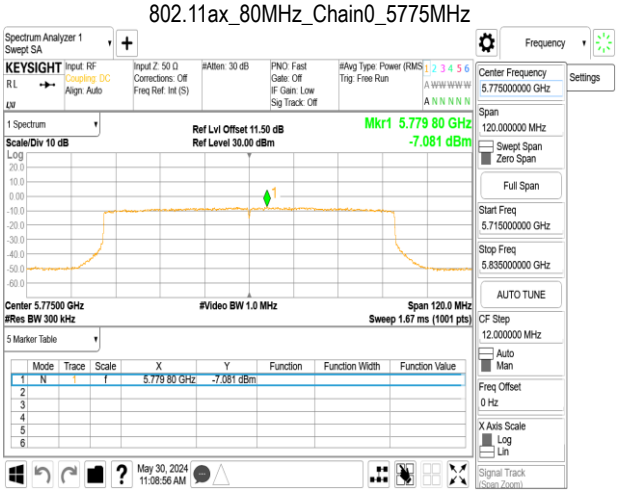


802.11ax_40MHz_Chain1_5795MHz_RU242_62

802.11ax_40MHz_Chain1_5755MHz_RU242_61



802.11ax_80MHz_Chain0_5775MHz



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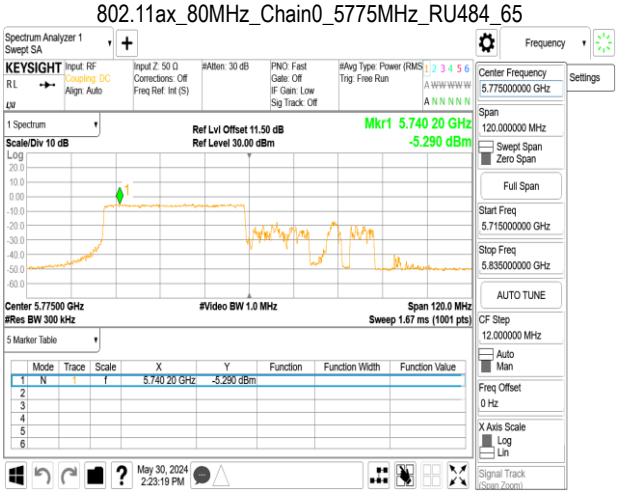
802.11ax_80MHz_Chain0_5775MHz_RU484_65

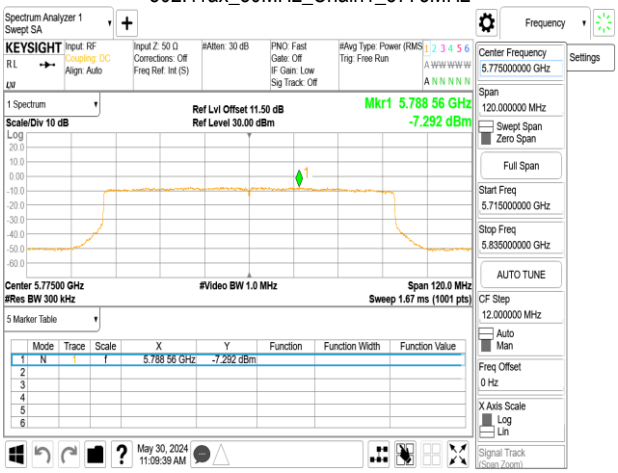


802.11ax_80MHz_Chain1_5775MHz_RU484_65

802.11ax_80MHz_Chain0_5775MHz_RU484_66

802.11ax_80MHz_Chain1_5775MHz_RU484_66

802.11ax_80MHz_Chain1_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

*EIRP = ((E*d)^2) / 30, where E is the field strength in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.*

11.1.1 5150~5850 MHz

Applicable to	Operation Freq. (MHz)	EIRP		Field Strength @ 3m (dBμV/m)
		Freq. (MHz)	Limits (dBm/MHz)	
15.407(b)(1) RSS-247 §6.2.1.2	5150~5250	f ≤ 5150 f ≥ 5350	PK: -27	PK: 68.2
15.407(b)(2) RSS-247 §6.2.2.2	5250~5350			
15.407(b)(3) RSS-247 §6.2.3.2	5475~5725	f ≤ 5470 f ≥ 5725		
15.407(b)(4)(i) RSS-247 §6.2.4.3	5725~5850	at 75 MHz or more above or below the band edge	PK:-27	PK: 68.2
		increasing linearly from 75~25MHz above or below the band edge	PK:-27~10	PK: 68.2~105.2
		increasing linearly from 25~5MHz above or below the band edge	PK:10~15.6	PK: 105.2~110.8
		increasing linearly from 5~0 MHz above or below the band edge	PK: 15.6~27	PK:110.8~122.2

11.1.2 Spurious Emission

Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note: *The lower limit shall apply at the transition frequencies.*

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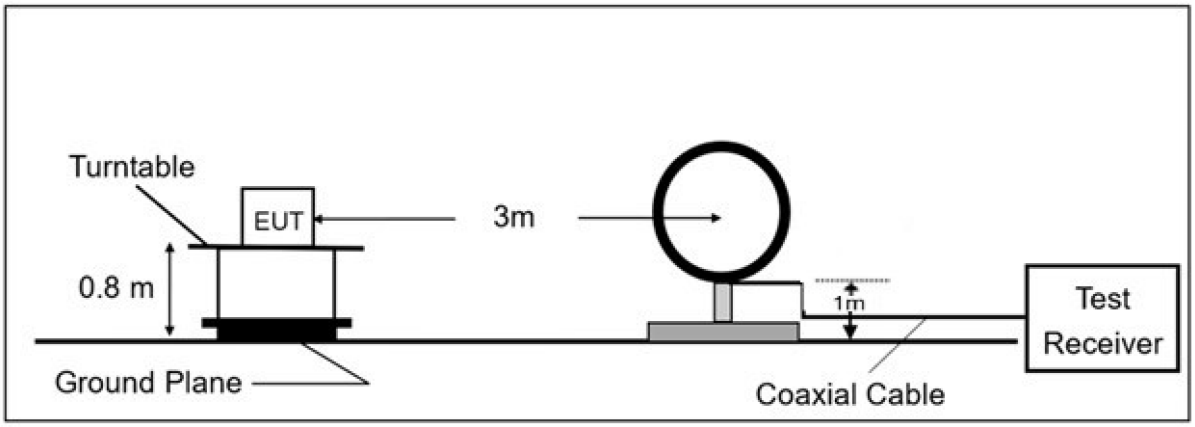
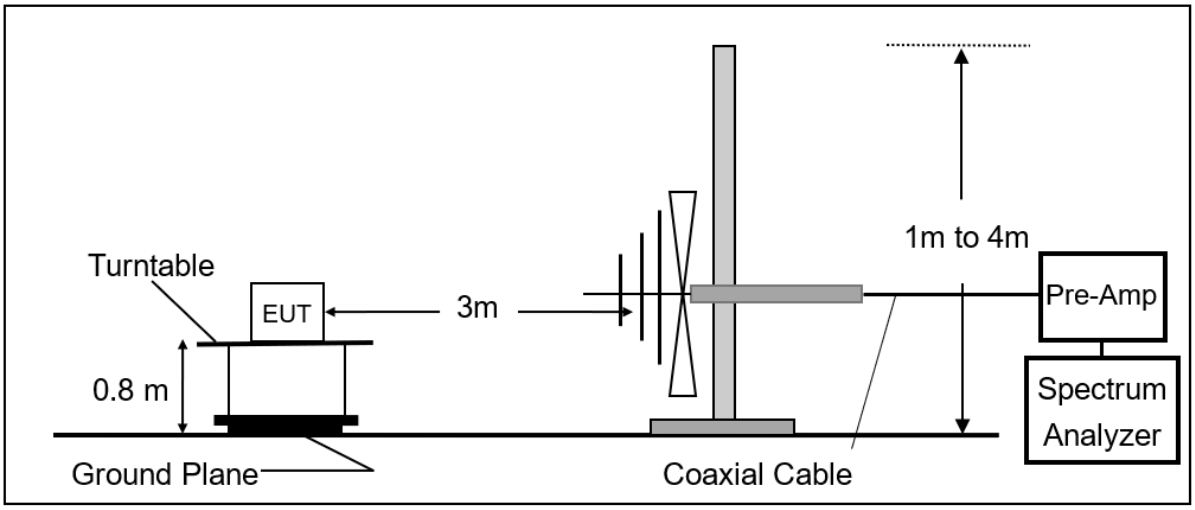
11.2 Test Setup

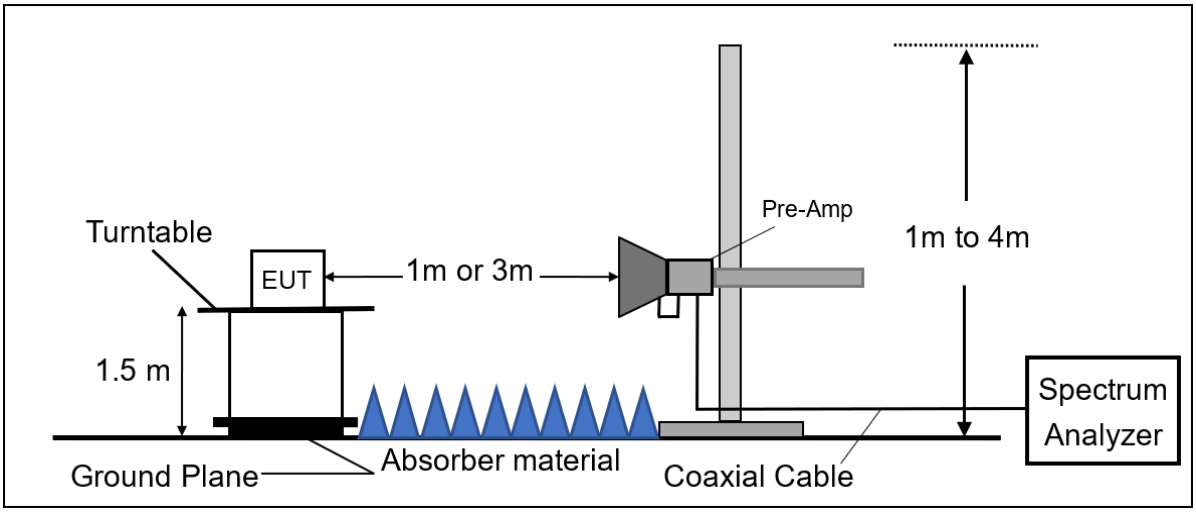
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz



(C) Radiated Emission Test Set-Up, Frequency Above 1GHz



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11.3 Measurement Procedure

1. The testing follows FCC KDB 789033 D02.
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Maximum Emission Measurements at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Emission Measurements at frequency above 1 GHz.
9. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
12. Repeat above procedures until all frequency measured were complete.

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11.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where *FS = Field Strength*
RA = Reading Amplitude
AF = Antenna Factor
CL = Cable Attenuation Factor (Cable Loss)
AG = Amplifier Gain

*The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)*

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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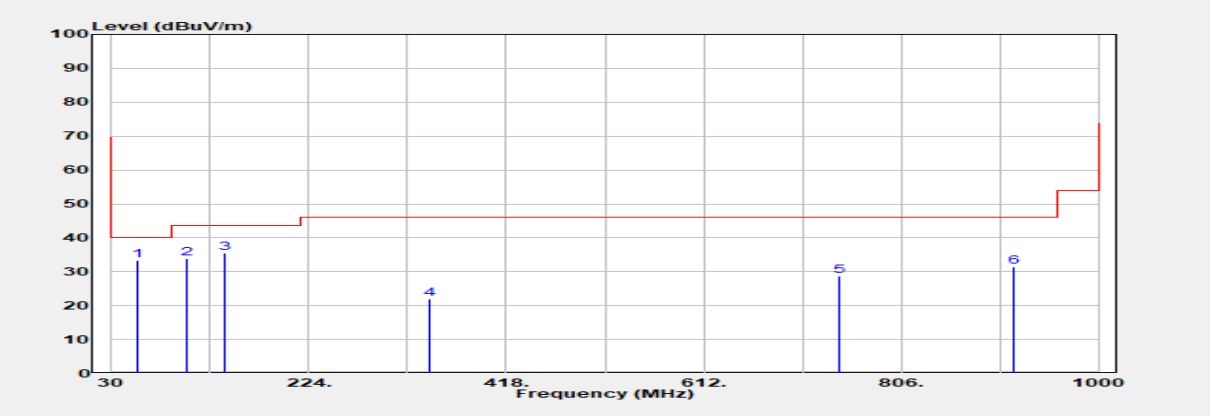
11.6 Radiated Spurious Emission Measurement Result

11.6.1 Spurious Emission

Report Number	:TERF2404001130ER	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2024-05-27
Test Frequency	:5785 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.220	Peak	50.09	-16.83	33.27	40.00	-6.73
104.690	Peak	54.66	-20.85	33.81	43.50	-9.69
140.580	Peak	52.35	-16.91	35.45	43.50	-8.05
342.340	Peak	36.47	-14.63	21.85	46.00	-24.15
744.890	Peak	35.21	-6.58	28.62	46.00	-17.38
917.550	Peak	36.07	-4.53	31.54	46.00	-14.46

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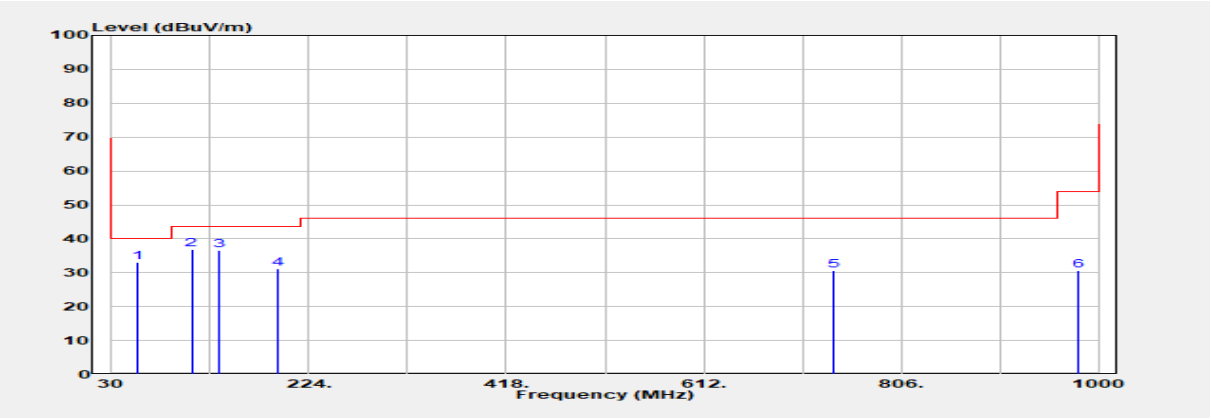
Operation Mode	:802.11a	Test Date	:2024-05-27
Test Frequency	:5785 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.220	Peak	49.93	-16.83	33.10	40.00	-6.90
108.570	Peak	56.95	-20.07	36.88	43.50	-6.62
134.760	Peak	53.72	-17.19	36.53	43.50	-6.97
192.960	Peak	50.54	-19.35	31.18	43.50	-12.32
739.070	Peak	37.41	-6.69	30.72	46.00	-15.28
979.630	Peak	34.95	-4.22	30.73	54.00	-23.27

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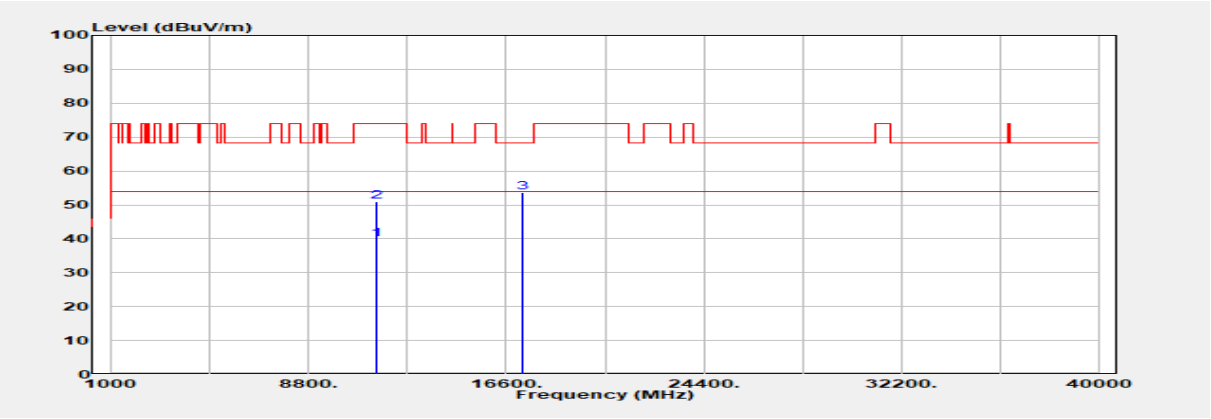
Report Number	:TERF2404001130ER	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2024-05-27
Test Frequency	:5745 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	26.33	13.46	39.79	54.00	-14.21
11490.000	Peak	37.39	13.46	50.85	74.00	-23.15
17235.000	Peak	35.46	18.13	53.59	68.20	-14.61

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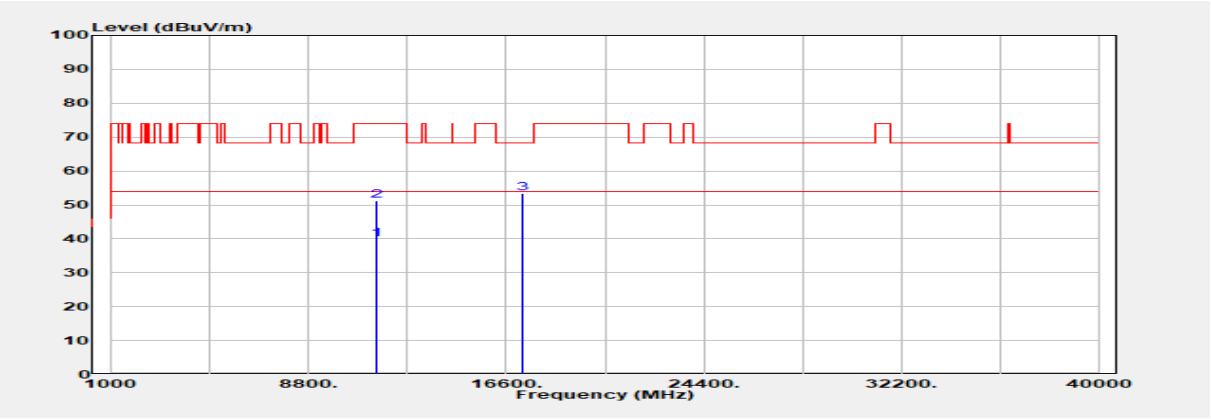
Operation Mode	:802.11a	Test Date	:2024-05-27
Test Frequency	:5745 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	26.30	13.46	39.76	54.00	-14.24
11490.000	Peak	37.74	13.46	51.19	74.00	-22.81
17235.000	Peak	35.14	18.13	53.28	68.20	-14.92

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Test Mode	:Tx	Antenna Pol.	:Vertical
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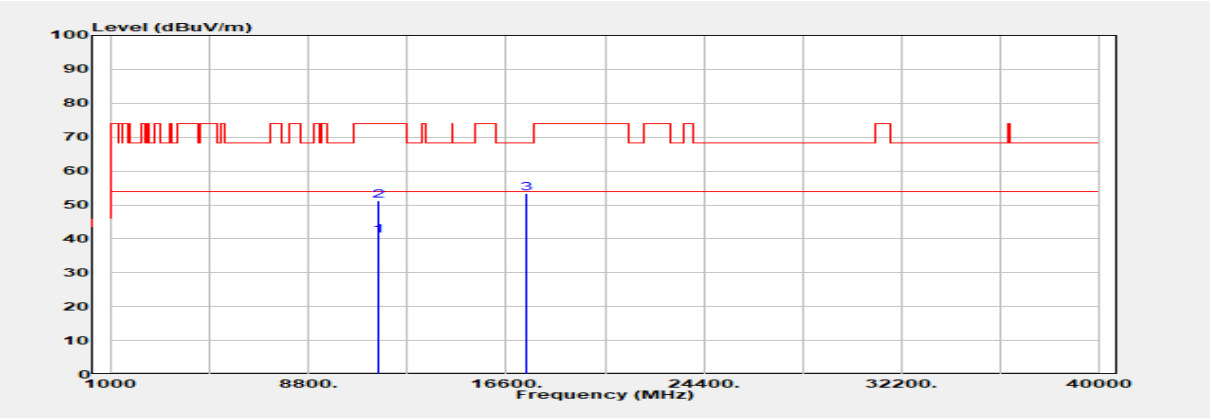

Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	26.43	14.43	40.87	54.00	-13.13
11570.000	Peak	36.83	14.43	51.26	74.00	-22.74
17355.000	Peak	34.58	18.91	53.49	68.20	-14.71

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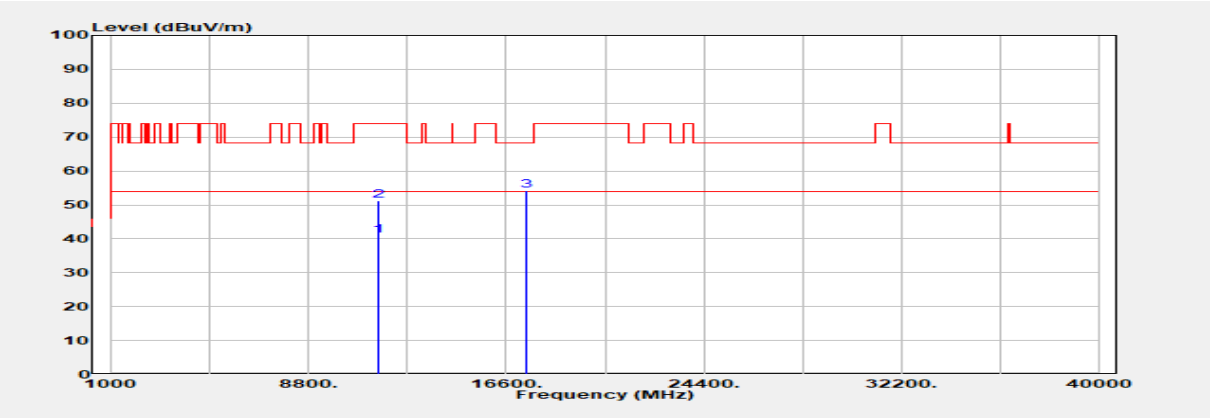
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	26.42	14.43	40.86	54.00	-13.14
11570.000	Peak	36.69	14.43	51.13	74.00	-22.87
17355.000	Peak	35.32	18.91	54.23	68.20	-13.97

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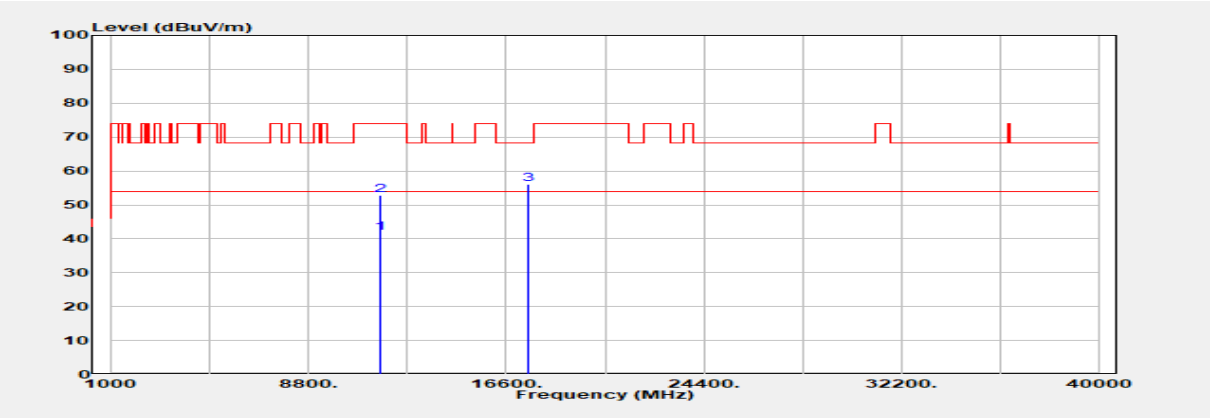
Report Number	:TERF2404001130ER	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2024-05-27
Test Frequency	:5825 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	26.83	15.01	41.85	54.00	-12.15
11650.000	Peak	37.74	15.01	52.75	74.00	-21.25
17475.000	Peak	35.03	21.07	56.09	68.20	-12.11

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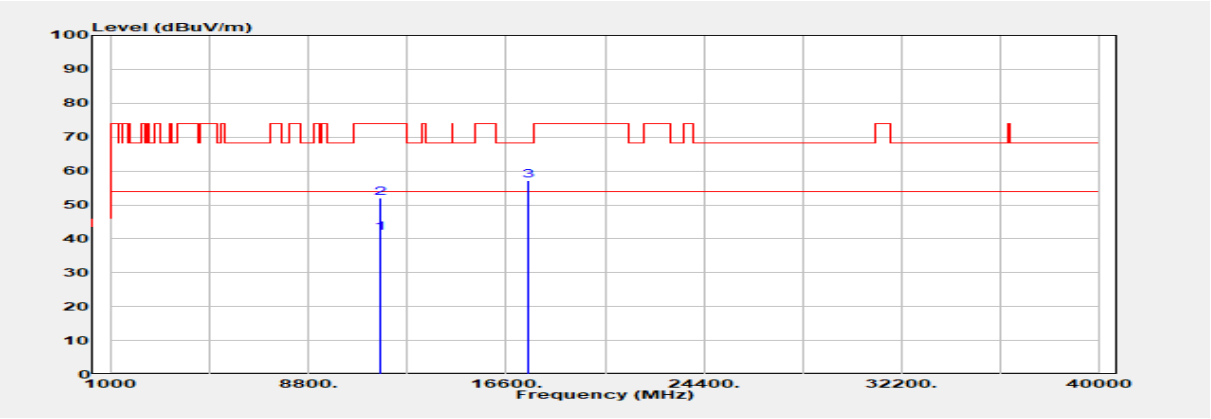
Report Number	:TERF2404001130ER	Test Site	:SAC D
Operation Mode	:802.11a	Test Date	:2024-05-27
Test Frequency	:5825 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.000	Average	26.83	15.01	41.84	54.00	-12.16
11650.000	Peak	37.13	15.01	52.14	74.00	-21.86
17475.000	Peak	36.06	21.07	57.13	68.20	-11.07

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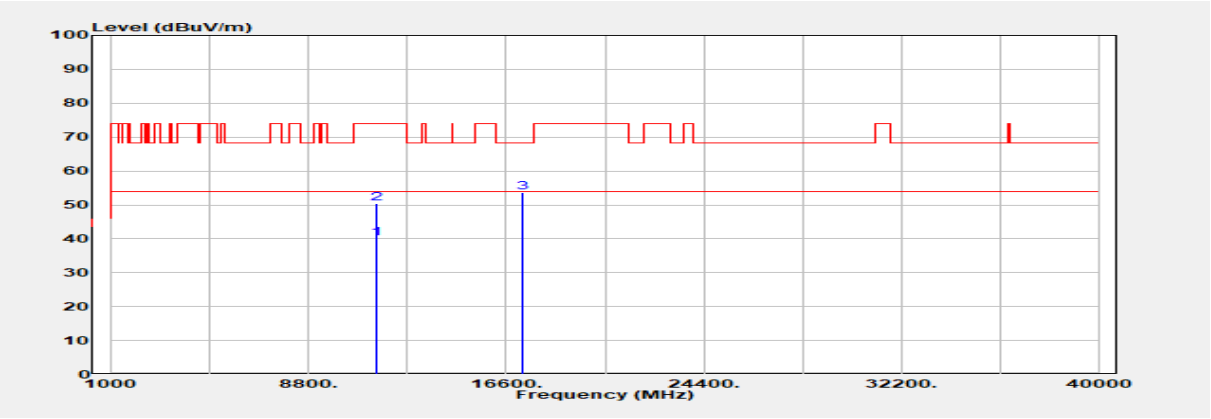
Report Number	:TERF2404001130ER	Test Site	:SAC D
Operation Mode	:802.11n20	Test Date	:2024-05-27
Test Frequency	:5745 MHz	Temp./Humi.	:21.1 ℃/62%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Sam Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	26.64	13.46	40.10	54.00	-13.90
11490.000	Peak	36.93	13.46	50.38	74.00	-23.62
17235.000	Peak	35.54	18.13	53.68	68.20	-14.52

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