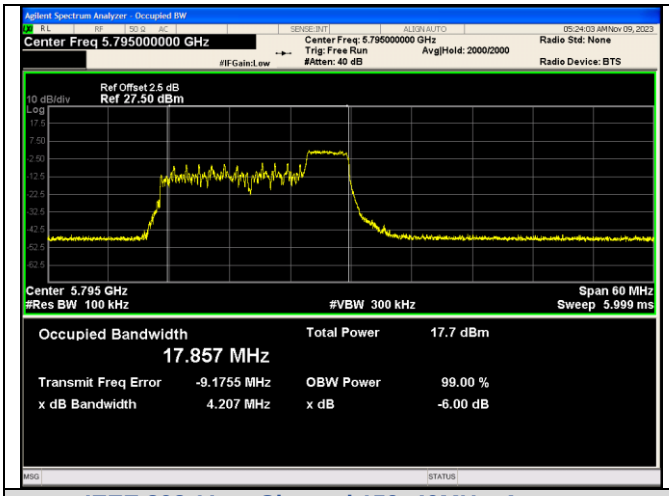
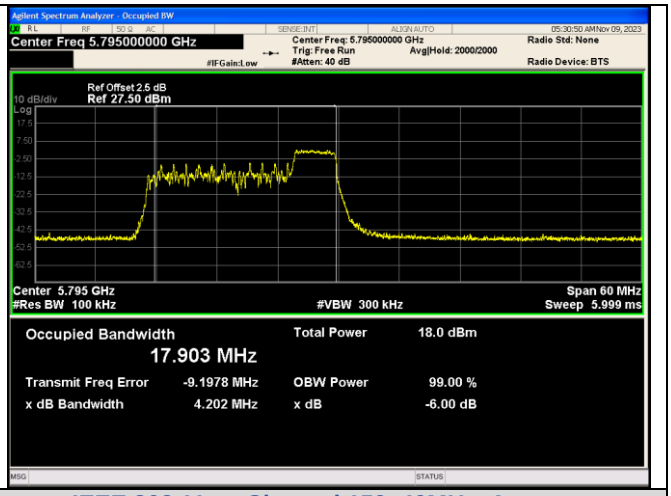


IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index 52RU40



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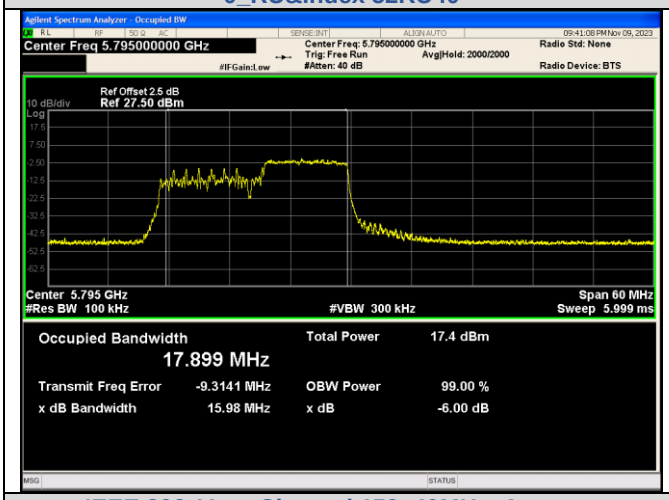
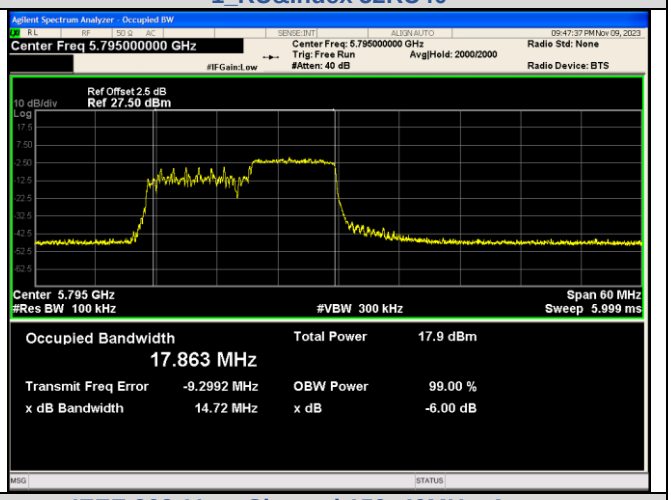
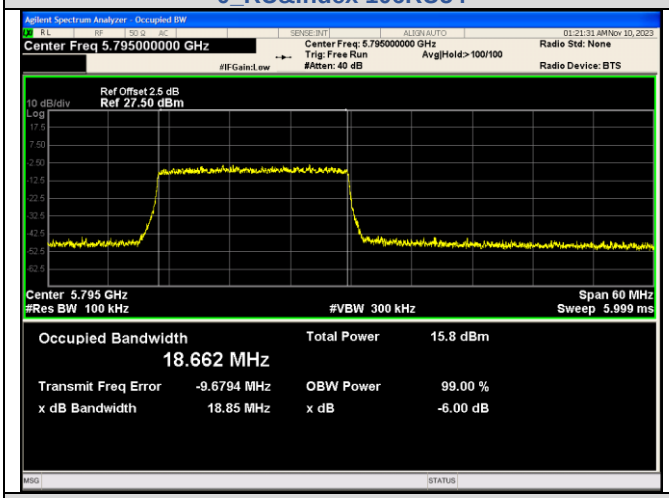


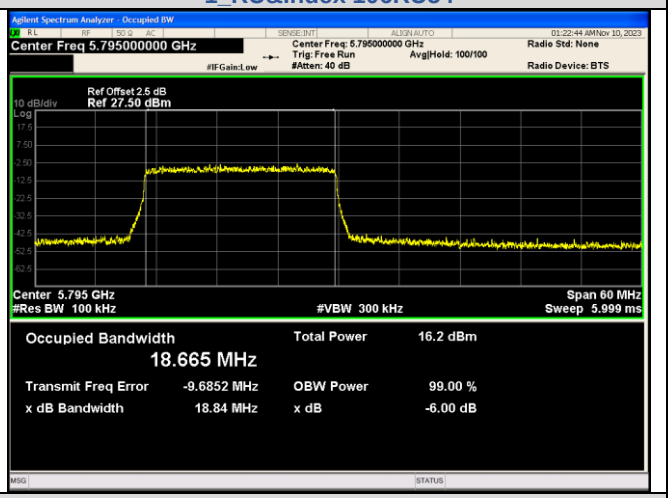
IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index 106RU54



IEEE 802.11ax_Channel 159_40MHz_Antenna 1_RU&Index 106RU54



IEEE 802.11ax_Channel 159_40MHz_Antenna 0_RU&Index 242RU61



IEEE 802.11ax_Channel 159_40MHz_Antenna 1_RU&Index 242RU61

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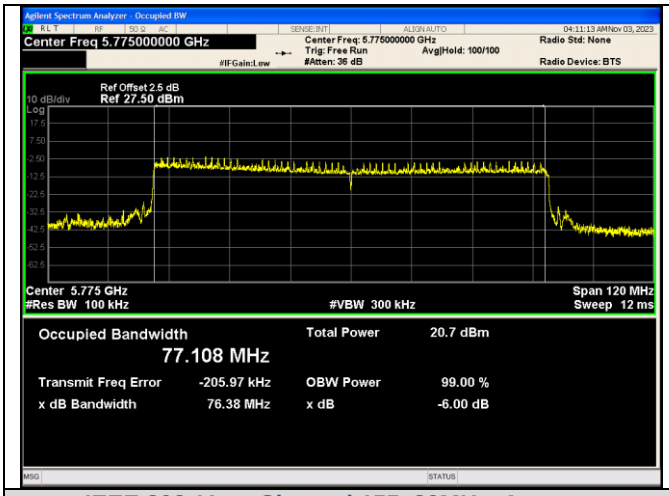
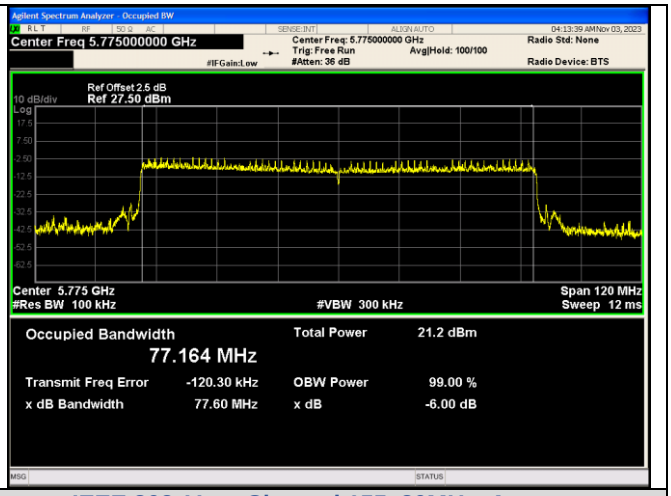
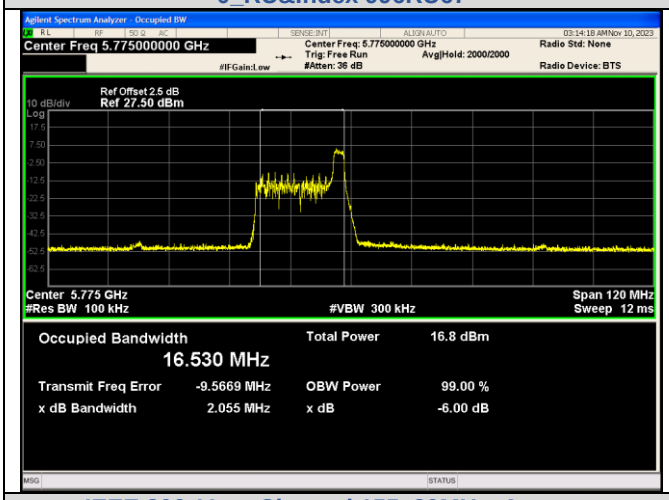


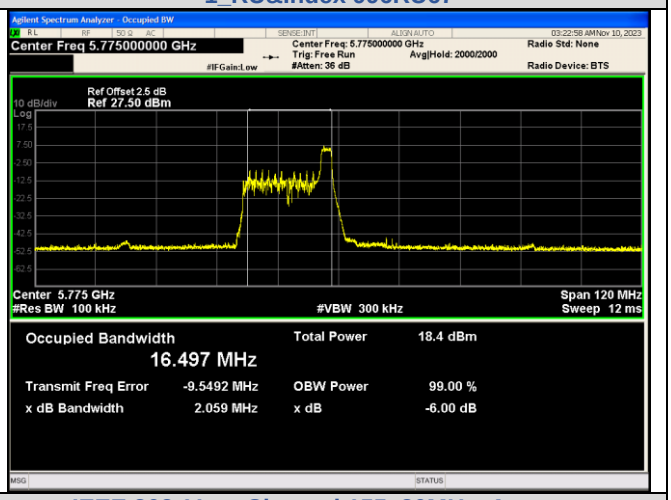
IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index 996RU67



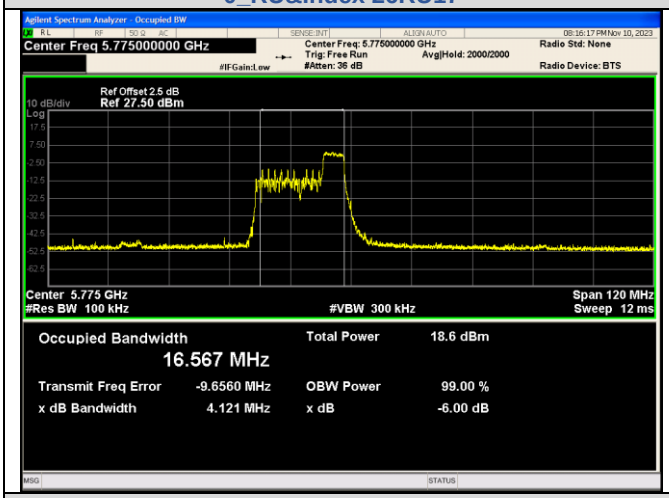
IEEE 802.11ax_Channel 155_80MHz_Antenna 1_RU&Index 996RU67



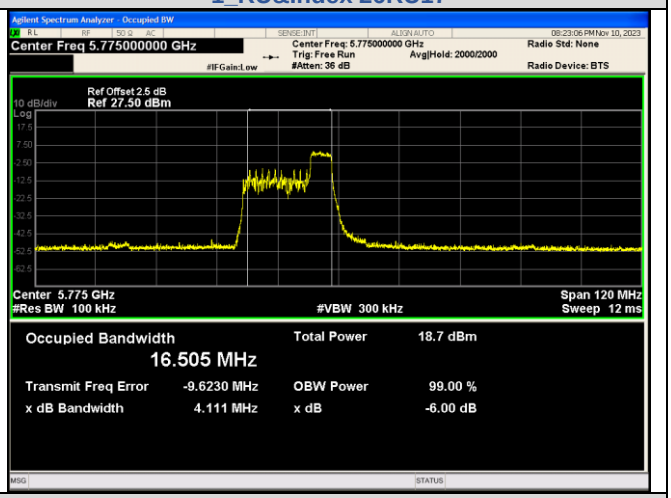
IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index 26RU17



IEEE 802.11ax_Channel 155_80MHz_Antenna 1_RU&Index 26RU17



IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index 52RU44



IEEE 802.11ax_Channel 155_80MHz_Antenna 1_RU&Index 52RU44

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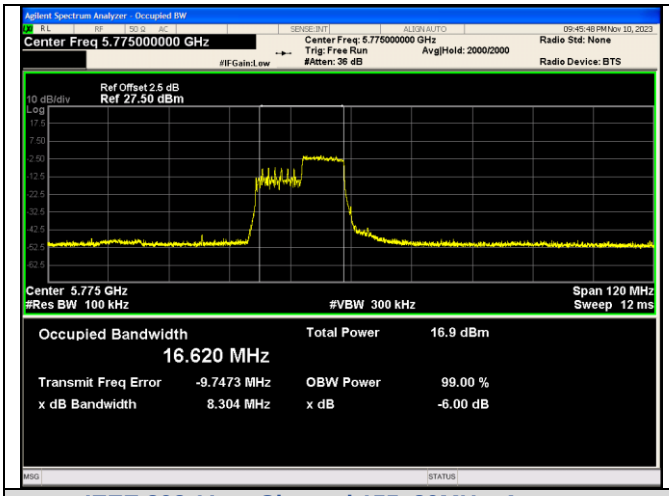
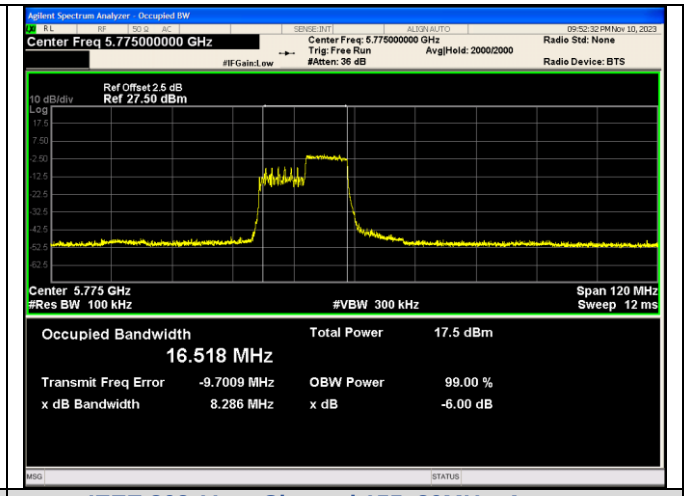
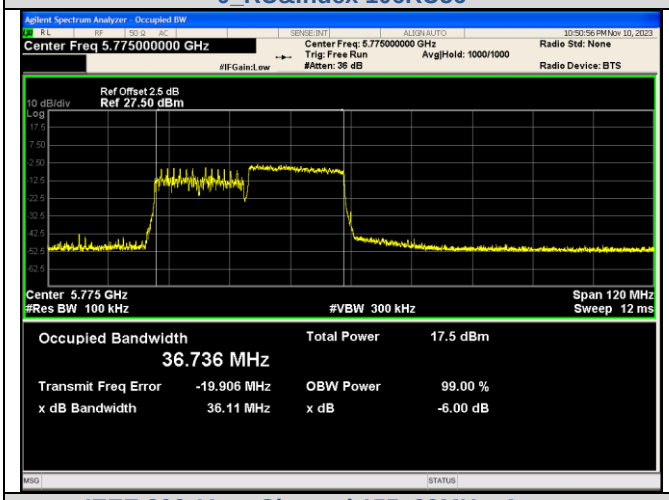


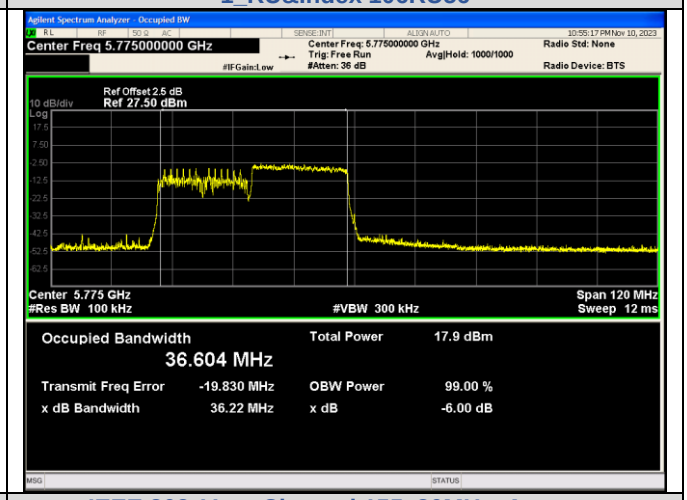
IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index 106RU56



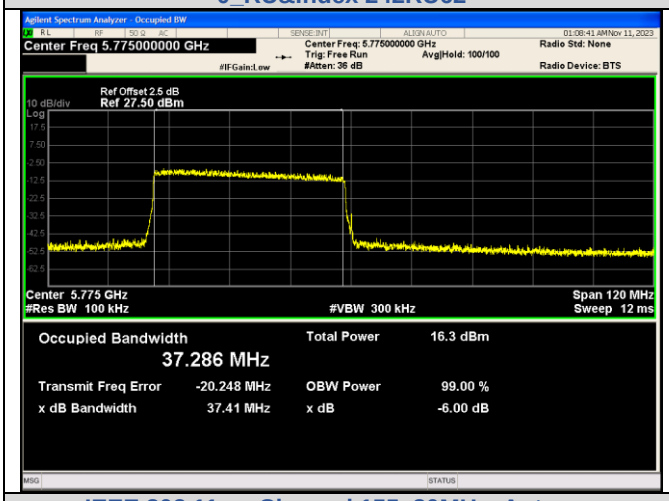
IEEE 802.11ax_Channel 155_80MHz_Antenna 1_RU&Index 106RU56



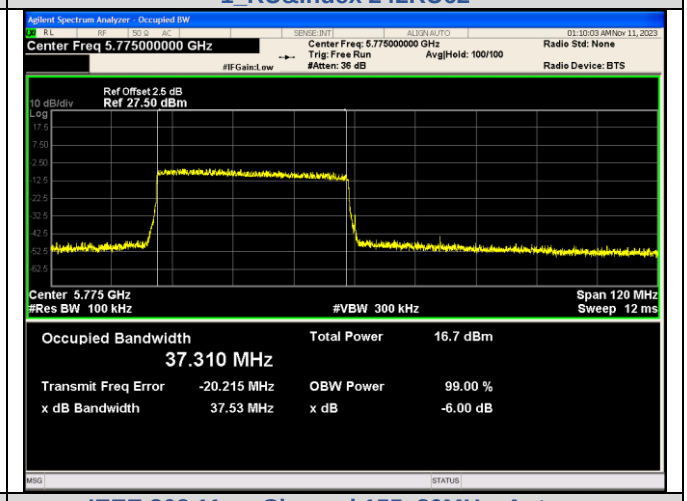
IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index 242RU62



IEEE 802.11ax_Channel 155_80MHz_Antenna 1_RU&Index 242RU62



IEEE 802.11ax_Channel 155_80MHz_Antenna 0_RU&Index 484RU65



IEEE 802.11ax_Channel 155_80MHz_Antenna 1_RU&Index 484RU65

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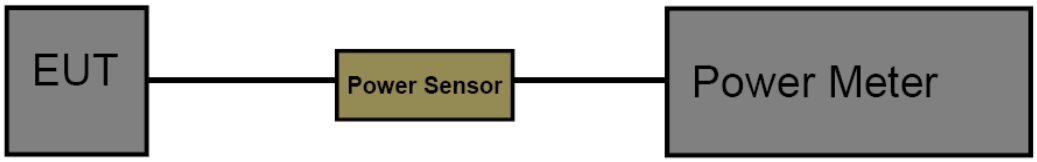
3.5. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

Test Configuration



Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

Test Mode

Please refer to the clause 2.4.

Test Result

Mode	Channel	RU & Index	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	N/A	17.11	17.38	N/A	24	PASS
	40		16.75	17.11	N/A	24	PASS
	48		17.09	17.4	N/A	24	PASS
	52		16.39	16.83	N/A	24	PASS
	56		16.23	16.59	N/A	24	PASS
	64		17.1	17.39	N/A	24	PASS
	100		17.82	17.21	N/A	24	PASS
	116		16.95	17.71	N/A	24	PASS
	140		16.45	17.63	N/A	24	PASS
IEEE 802.11n_20	36		15.33	15.64	18.5	24	PASS
	40		14.82	15.21	18.03	24	PASS
	48		15.25	15.68	18.48	24	PASS
	52		14.76	15.02	17.9	24	PASS
	56		14.43	14.7	17.58	24	PASS
	64		15.43	15.45	18.45	24	PASS
	100		13.13	13.5	16.33	24	PASS
	116		15.27	14.99	18.14	24	PASS
	140		15.46	15.34	18.41	24	PASS
IEEE 802.11n_40	38		13.36	12.61	16.01	24	PASS
	46		14.61	15.01	17.82	24	PASS
	54		14.57	14.76	17.68	24	PASS
	62		12.07	12.17	15.13	24	PASS
	102		14.76	15.07	17.93	24	PASS
	110		15.32	14.94	18.14	24	PASS
	134		15.72	15.83	18.79	24	PASS
IEEE 802.11ac_20	36		14.41	14.42	17.43	24	PASS
	40		14.38	14.74	17.57	24	PASS
	48		14.93	14.68	17.82	24	PASS
	52		14.41	14.78	17.61	24	PASS
	56		13.88	14.14	17.02	24	PASS
	64		15.41	15.49	18.46	24	PASS
	100		15.34	14.77	18.07	24	PASS
	116		15.28	15.09	18.2	24	PASS
	140		14.95	15.09	18.03	24	PASS
IEEE 802.11ac_40	38		13.07	12.15	15.64	24	PASS
	46		15.47	16.04	18.77	24	PASS
	54		15.34	15.57	18.47	24	PASS
	62		12.99	12.53	15.78	24	PASS
	102		14.73	15.13	17.94	24	PASS
	110		14.95	14.84	17.91	24	PASS
	134		15.05	15.29	18.18	24	PASS
IEEE 802.11ac_80	42		12.36	12.65	15.52	24	PASS
	58		12.05	12.37	15.22	24	PASS
	106		12.78	13.1	15.95	24	PASS
	122		13.44	13.26	16.36	24	PASS
IEEE 802.11ax_20	36	242RU61	14.66	15.11	17.9	24	PASS
		26RU0	10.35	10.75	13.56	24	PASS
		26RU4	10.48	10.79	13.65	24	PASS
		26RU8	10.44	10.86	13.67	24	PASS
		52RU37	10.66	11.28	13.99	24	PASS
		52RU38	10.92	11.32	14.13	24	PASS
		52RU40	10.52	11.06	13.81	24	PASS
		106RU53	10.41	10.9	13.67	24	PASS
		106RU54	9.99	10.49	13.26	24	PASS
	40	242RU61	14.35	14.68	17.53	24	PASS
		26RU0	10.25	10.94	13.62	24	PASS
		26RU4	10.71	11.13	13.94	24	PASS
		26RU8	10.2	10.69	13.46	24	PASS
		52RU37	10.63	11.06	13.86	24	PASS
		52RU38	10.78	11.25	14.03	24	PASS

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		52RU40	10.35	10.92	13.65	24	PASS
		106RU53	10.49	11.05	13.79	24	PASS
		106RU54	9.73	10.33	13.05	24	PASS
	48	242RU61	14.7	14.97	17.85	24	PASS
		26RU0	10.77	10.96	13.88	24	PASS
		26RU4	9.55	9.87	12.72	24	PASS
		26RU8	9.94	10.22	13.09	24	PASS
		52RU37	10.85	11.17	14.02	24	PASS
		52RU38	10.11	10.56	13.35	24	PASS
		52RU40	10.29	10.71	13.52	24	PASS
		106RU53	10.24	10.61	13.44	24	PASS
		106RU54	10.73	11.13	13.94	24	PASS
	52	242RU61	14.41	14.7	17.57	24	PASS
		26RU0	10.39	10.9	13.66	24	PASS
		26RU4	10.44	11.07	13.78	24	PASS
		26RU8	9.56	10.16	12.88	24	PASS
		52RU37	10.63	11.32	14.0	24	PASS
		52RU38	10.01	10.56	13.3	24	PASS
		52RU40	10.37	11.0	13.71	24	PASS
		106RU53	10.25	10.78	13.53	24	PASS
		106RU54	10.75	11.31	14.05	24	PASS
	56	242RU61	14.28	14.33	17.32	24	PASS
		26RU0	10.26	10.81	13.55	24	PASS
		26RU4	10.57	10.93	13.76	24	PASS
		26RU8	9.95	10.72	13.36	24	PASS
		52RU37	10.68	11.26	13.99	24	PASS
		52RU38	10.62	11.19	13.92	24	PASS
		52RU40	10.48	11.05	13.78	24	PASS
		106RU53	10.63	11.13	13.9	24	PASS
		106RU54	10.82	11.43	14.15	24	PASS
	64	242RU61	13.23	12.82	16.04	24	PASS
		26RU0	10.75	11.24	14.01	24	PASS
		26RU4	9.95	10.4	13.19	24	PASS
		26RU8	10.19	10.5	13.36	24	PASS
		52RU37	10.03	10.37	13.21	24	PASS
		52RU38	10.11	10.6	13.37	24	PASS
		52RU40	10.02	10.51	13.28	24	PASS
		106RU53	10.03	10.63	13.35	24	PASS
		106RU54	10.32	10.9	13.63	24	PASS
	100	242RU61	14.35	13.76	17.08	24	PASS
		26RU0	10.78	10.23	13.52	24	PASS
		26RU4	10.28	9.95	13.13	24	PASS
		26RU8	11.03	10.42	13.75	24	PASS
		52RU37	10.36	10.0	13.19	24	PASS
		52RU38	10.73	10.49	13.62	24	PASS
		52RU40	10.8	10.56	13.69	24	PASS
		106RU53	10.76	10.46	13.62	24	PASS
		106RU54	10.16	9.9	13.04	24	PASS
	116	242RU61	15.51	15.27	18.4	24	PASS
		26RU0	10.92	10.68	13.81	24	PASS
		26RU4	10.28	10.31	13.31	24	PASS
		26RU8	10.35	10.17	13.27	24	PASS
		52RU37	10.65	10.51	13.59	24	PASS
		52RU38	10.66	10.68	13.68	24	PASS
		52RU40	10.87	10.82	13.86	24	PASS
		106RU53	10.57	10.48	13.54	24	PASS
		106RU54	10.11	10.34	13.24	24	PASS
	140	242RU61	14.39	14.29	17.35	24	PASS
		26RU0	10.38	10.57	13.49	24	PASS
		26RU4	10.54	10.54	13.55	24	PASS
		26RU8	10.31	10.47	13.4	24	PASS
		52RU37	11.05	11.19	14.13	24	PASS
		52RU38	10.87	11.23	14.06	24	PASS
		52RU40	10.74	11.02	13.89	24	PASS

		106RU53	10.86	11.11	14.0	24	PASS
		106RU54	11.05	11.21	14.14	24	PASS
IEEE 802.11ax_40	38	484RU65	14.1	12.83	16.52	24	PASS
		26RU0	10.29	10.55	13.43	24	PASS
		26RU8	9.91	10.69	13.33	24	PASS
		26RU17	9.35	10.3	12.86	24	PASS
		52RU37	9.08	9.59	12.35	24	PASS
		52RU40	9.81	10.44	13.15	24	PASS
		52RU44	9.35	10.06	12.73	24	PASS
		106RU53	9.85	10.41	13.15	24	PASS
		106RU54	9.09	9.62	12.37	24	PASS
		106RU56	10.0	10.43	13.23	24	PASS
		242RU61	9.1	9.62	12.38	24	PASS
		242RU62	9.99	10.64	13.34	24	PASS
	46	484RU65	14.3	14.35	17.34	24	PASS
		26RU0	10.03	10.31	13.18	24	PASS
		26RU8	9.5	9.7	12.61	24	PASS
		26RU17	9.57	9.97	12.78	24	PASS
		52RU37	9.11	9.53	12.34	24	PASS
		52RU40	9.25	9.71	12.5	24	PASS
		52RU44	9.39	9.76	12.59	24	PASS
		106RU53	9.71	9.7	12.72	24	PASS
		106RU54	9.71	9.9	12.82	24	PASS
		106RU56	9.72	9.97	12.86	24	PASS
		242RU61	9.42	9.75	12.6	24	PASS
		242RU62	9.48	9.99	12.75	24	PASS
	54	484RU65	14.14	14.56	17.37	24	PASS
		26RU0	9.8	10.43	13.14	24	PASS
		26RU8	9.31	9.88	12.61	24	PASS
		26RU17	9.27	10.91	13.18	24	PASS
		52RU37	9.94	10.6	13.29	24	PASS
		52RU40	9.2	9.78	12.51	24	PASS
		52RU44	9.6	10.2	12.92	24	PASS
		106RU53	9.3	9.75	12.54	24	PASS
		106RU54	9.25	9.84	12.57	24	PASS
		106RU56	9.11	9.56	12.35	24	PASS
		242RU61	9.33	9.98	12.68	24	PASS
		242RU62	9.29	9.9	12.62	24	PASS
	62	484RU65	12.86	12.43	15.66	24	PASS
		26RU0	10.33	10.46	13.41	24	PASS
		26RU8	9.19	9.27	12.24	24	PASS
		26RU17	9.27	9.76	12.53	24	PASS
		52RU37	9.03	9.63	12.35	24	PASS
		52RU40	9.37	9.51	12.45	24	PASS
		52RU44	9.63	10.03	12.84	24	PASS
		106RU53	9.65	9.94	12.81	24	PASS
		106RU54	9.67	10.42	13.07	24	PASS
		106RU56	9.41	9.93	12.69	24	PASS
		242RU61	9.1	9.62	12.38	24	PASS
		242RU62	9.85	10.39	13.14	24	PASS
	102	484RU65	13.72	14.02	16.88	24	PASS
		26RU0	10.74	10.46	13.61	24	PASS
		26RU8	9.91	9.57	12.75	24	PASS
		26RU17	10.2	9.74	12.99	24	PASS
		52RU37	10.2	9.67	12.95	24	PASS
		52RU40	10.93	10.39	13.68	24	PASS
		52RU44	10.38	9.98	13.19	24	PASS
		106RU53	10.41	9.52	13.0	24	PASS
		106RU54	9.97	9.77	12.88	24	PASS
		106RU56	10.15	9.92	13.05	24	PASS
		242RU61	10.49	10.19	13.35	24	PASS
		242RU62	10.5	9.98	13.26	24	PASS
	110	484RU65	15.24	14.66	17.97	24	PASS
		26RU0	10.31	9.78	13.06	24	PASS

		26RU8	10.2	9.62	12.93	24	PASS
		26RU17	10.72	10.21	13.48	24	PASS
		52RU37	9.96	9.62	12.8	24	PASS
		52RU40	10.63	10.1	13.38	24	PASS
		52RU44	10.06	9.93	13.01	24	PASS
		106RU53	10.59	10.31	13.46	24	PASS
		106RU54	10.89	10.77	13.84	24	PASS
		106RU56	10.1	9.92	13.02	24	PASS
		242RU61	10.21	9.67	12.96	24	PASS
		242RU62	10.13	9.83	12.99	24	PASS
	134	484RU65	15.07	15.29	18.19	24	PASS
		26RU0	10.54	11.02	13.8	24	PASS
		26RU8	9.62	9.76	12.7	24	PASS
		26RU17	10.96	10.68	13.83	24	PASS
		52RU37	10.04	10.36	13.21	24	PASS
		52RU40	10.77	10.99	13.89	24	PASS
		52RU44	10.47	10.84	13.67	24	PASS
		106RU53	10.13	10.51	13.33	24	PASS
		106RU54	10.09	10.41	13.26	24	PASS
		106RU56	10.61	10.84	13.74	24	PASS
		242RU61	10.35	10.44	13.41	24	PASS
		242RU62	10.82	11.11	13.98	24	PASS
IEEE 802.11ax_80	42	996RU67	13.47	12.95	16.23	24	PASS
		26RU0	9.74	10.15	12.96	24	PASS
		26RU17	9.52	10.02	12.79	24	PASS
		26RU36	9.24	9.69	12.48	24	PASS
		52RU37	8.75	9.66	12.24	24	PASS
		52RU44	9.65	10.12	12.9	24	PASS
		52RU52	9.09	9.77	12.45	24	PASS
		106RU53	9.05	9.6	12.34	24	PASS
		106RU56	9.57	10.05	12.83	24	PASS
		106RU60	9.34	9.93	12.66	24	PASS
		242RU61	9.9	9.87	12.9	24	PASS
		242RU62	8.99	9.57	12.3	24	PASS
		242RU64	9.2	9.38	12.3	24	PASS
		484RU65	9.5	9.85	12.69	24	PASS
		484RU66	8.99	9.53	12.28	24	PASS
	58	996RU67	13.21	12.32	15.8	24	PASS
		26RU0	9.7	10.37	13.06	24	PASS
		26RU17	9.61	10.41	13.04	24	PASS
		26RU36	9.99	10.54	13.28	24	PASS
		52RU37	8.94	9.58	12.28	24	PASS
		52RU44	9.57	10.03	12.82	24	PASS
		52RU52	9.65	10.31	13.0	24	PASS
		106RU53	9.26	9.9	12.6	24	PASS
		106RU56	9.56	10.24	12.92	24	PASS
		106RU60	9.82	10.4	13.13	24	PASS
		242RU61	9.14	9.79	12.49	24	PASS
		242RU62	9.2	9.91	12.58	24	PASS
		242RU64	9.29	9.7	12.51	24	PASS
		484RU65	9.38	9.94	12.68	24	PASS
		484RU66	9.35	9.98	12.69	24	PASS
	106	996RU67	13.93	14.3	17.13	24	PASS
		26RU0	10.4	10.03	13.23	24	PASS
		26RU17	10.05	9.91	12.99	24	PASS
		26RU36	10.37	10.06	13.23	24	PASS
		52RU37	10.0	9.76	12.89	24	PASS
		52RU44	10.18	9.79	13.0	24	PASS
		52RU52	10.06	9.74	12.91	24	PASS
		106RU53	10.34	9.96	13.16	24	PASS
		106RU56	10.59	10.2	13.41	24	PASS
		106RU60	9.88	9.49	12.7	24	PASS
		242RU61	9.66	9.17	12.43	24	PASS
		242RU62	10.61	10.29	13.46	24	PASS

		242RU64	10.34	9.98	13.17	24	PASS
		484RU65	10.51	10.23	13.38	24	PASS
		484RU66	10.23	9.89	13.07	24	PASS
	122	996RU67	15.02	15.08	18.06	24	PASS
		26RU0	9.63	9.65	12.65	24	PASS
		26RU17	10.14	10.3	13.23	24	PASS
		26RU36	9.88	10.04	12.97	24	PASS
		52RU37	10.2	10.15	13.19	24	PASS
		52RU44	10.72	10.61	13.68	24	PASS
		52RU52	10.89	10.83	13.87	24	PASS
		106RU53	10.43	10.05	13.25	24	PASS
		106RU56	10.54	10.61	13.59	24	PASS
		106RU60	10.7	10.89	13.81	24	PASS
		242RU61	9.84	9.73	12.8	24	PASS
		242RU62	10.62	10.48	13.56	24	PASS
		242RU64	10.2	9.96	13.09	24	PASS
		484RU65	10.79	10.8	13.81	24	PASS
		484RU66	11.48	11.17	14.34	24	PASS

Mode	Channel	RU & Index	Ant. 0 (dBm)	Ant. 1 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	N/A	17.09	17.29	N/A	30	PASS
	157		16.04	16.28	N/A	30	PASS
	165		16.17	16.29	N/A	30	PASS
IEEE 802.11n_20	149		14.8	15.24	18.04	30	PASS
	157		14.25	14.17	17.22	30	PASS
	165		14.96	15.01	18.0	30	PASS
IEEE 802.11n_40	151		14.86	15.22	18.05	30	PASS
	159		14.05	14.42	17.25	30	PASS
IEEE 802.11ac_20	149		15.5	15.78	18.65	30	PASS
	157		14.86	15.26	18.07	30	PASS
	165		14.51	14.94	17.74	30	PASS
IEEE 802.11ac_40	151		14.23	14.63	17.44	30	PASS
	159		14.8	15.23	18.03	30	PASS
IEEE 802.11ac_80	155		12.17	12.62	15.41	30	PASS
IEEE 802.11ax_20	149	242RU61	14.42	14.82	17.63	30	PASS
		26RU0	10.23	10.98	13.63	30	PASS
		26RU4	10.3	10.88	13.61	30	PASS
		26RU8	11.02	11.55	14.3	30	PASS
		52RU37	10.5	10.9	13.71	30	PASS
		52RU38	10.3	10.99	13.67	30	PASS
		52RU40	9.89	10.47	13.2	30	PASS
		106RU53	10.45	10.91	13.7	30	PASS
		106RU54	10.51	10.98	13.76	30	PASS
	157	242RU61	14.46	15.0	17.75	30	PASS
		26RU0	9.91	10.37	13.16	30	PASS
		26RU4	10.63	10.91	13.78	30	PASS
		26RU8	10.25	10.87	13.58	30	PASS
		52RU37	10.99	11.52	14.27	30	PASS
		52RU38	9.78	10.5	13.17	30	PASS
		52RU40	9.72	10.44	13.11	30	PASS
		106RU53	10.67	11.17	13.94	30	PASS
		106RU54	10.17	10.28	13.24	30	PASS
	165	242RU61	14.52	14.67	17.61	30	PASS
		26RU0	10.51	10.77	13.65	30	PASS
		26RU4	10.03	10.33	13.19	30	PASS
		26RU8	9.72	10.25	13.0	30	PASS
		52RU37	10.6	10.89	13.76	30	PASS
		52RU38	9.74	10.21	12.99	30	PASS
		52RU40	10.41	10.72	13.58	30	PASS
		106RU53	10.9	11.25	14.09	30	PASS
		106RU54	9.97	10.08	13.04	30	PASS
IEEE 802.11ax_40	151	484RU65	15.46	15.96	18.73	30	PASS
		26RU0	9.93	10.38	13.17	30	PASS
		26RU8	10.77	11.15	13.97	30	PASS
		26RU17	9.53	10.15	12.86	30	PASS
		52RU37	9.21	9.9	12.58	30	PASS
		52RU40	10.06	10.76	13.43	30	PASS
		52RU44	9.98	10.37	13.19	30	PASS
		106RU53	10.72	11.16	13.96	30	PASS
		106RU54	10.4	10.97	13.7	30	PASS
		106RU56	9.9	10.37	13.15	30	PASS
		242RU61	10.41	11.04	13.75	30	PASS
		242RU62	9.68	10.2	12.96	30	PASS
	159	484RU65	15.12	15.6	18.38	30	PASS
		26RU0	10.41	10.96	13.7	30	PASS
		26RU8	10.04	10.31	13.19	30	PASS
		26RU17	9.28	9.82	12.57	30	PASS
		52RU37	9.63	9.89	12.77	30	PASS
		52RU40	9.77	10.13	12.96	30	PASS

		52RU44	9.81	10.16	13.0	30	PASS
		106RU53	9.84	10.4	13.14	30	PASS
		106RU54	9.74	10.33	13.06	30	PASS
		106RU56	9.53	10.21	12.89	30	PASS
		242RU61	9.76	10.27	13.03	30	PASS
		242RU62	9.24	9.81	12.54	30	PASS
IEEE 802.11ax_80	155	996RU67	14.36	14.81	17.6	30	PASS
		26RU0	9.77	10.23	13.02	30	PASS
		26RU17	9.81	10.38	13.11	30	PASS
		26RU36	9.46	9.97	12.73	30	PASS
		52RU37	10.09	10.7	13.42	30	PASS
		52RU44	10.77	10.91	13.85	30	PASS
		52RU52	9.08	9.73	12.43	30	PASS
		106RU53	9.9	10.26	13.09	30	PASS
		106RU56	9.26	9.82	12.56	30	PASS
		106RU60	9.33	10.1	12.74	30	PASS
		242RU61	9.74	10.18	12.98	30	PASS
		242RU62	9.49	10.06	12.79	30	PASS
		242RU64	9.42	9.91	12.68	30	PASS
		484RU65	10.24	10.63	13.45	30	PASS
		484RU66	9.9	10.09	13.01	30	PASS

3.6. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

For the 5.15~5.25GHz band:

- Outdoor AP
  The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
  If G_{Tx}>6dBi, then PSD =17-(G_{Tx}-6).
- Indoor AP
  The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
  If G_{Tx}>6dBi, then PSD =17-(G_{Tx}-6).
- Point-to-point AP
  The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
  If G_{Tx}>23dBi, then PSD =17-(G_{Tx}-23).
- Client devices
  The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
  If G_{Tx}>6dBi, then PSD =11-(G_{Tx}-6).

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If G_{Tx}>6dBi, then PSD =11-(G_{Tx}-6).

For the 5.47~5.725GHz band:

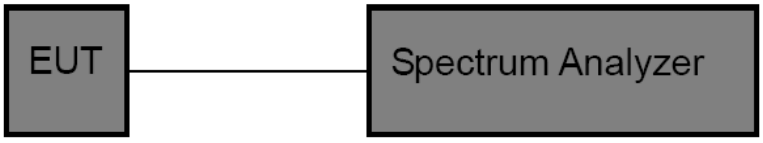
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If G_{Tx}>6dBi, then PSD =11-(G_{Tx}-6).

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
  The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.
  If G_{Tx}>6dBi, then PSD =30-(G_{Tx}-6).
- Point-to-point systems (P2P)
  The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note: G_{Tx}: EUT Antenna gain.

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

(1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
(2) Set analyzer center frequency to transmitting frequency.
(3) Set the span to encompass the entire emissions bandwidth (EBW) (alternatively, the entire 99% OBW) of the signal.
(4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz
RBW=500kHz for devices operating in the band 5.725-5.85 GHz.
(5) Set the VBW to: ⩾ 3 RBW
(6) Detector: AVG
(7) Trace: Max Hold and View

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(7) Sweep time: auto
(8) Trace average at least 100 traces in power averaging.
(9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

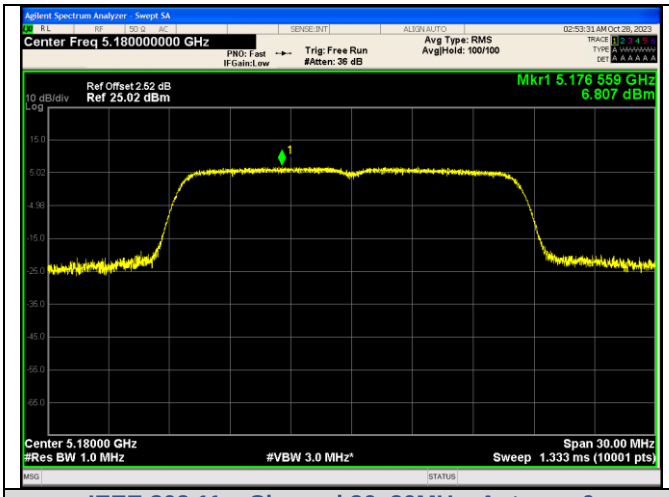
Mode	Channel	RU & Index	Ant. 0	Ant. 1	Total PSD	Limit (dBm/MHz)	Result
IEEE 802.11a	36	N/A	6.807	7.225	N/A	11	PASS
	40		6.572	7.133	N/A	11	PASS
	48		6.585	6.779	N/A	11	PASS
	52		6.52	6.873	N/A	11	PASS
	56		5.916	6.568	N/A	11	PASS
	64		6.705	6.994	N/A	11	PASS
	100		7.532	7.002	N/A	11	PASS
	116		6.408	7.38	N/A	11	PASS
	140		6.228	7.467	N/A	11	PASS
IEEE 802.11n_20	36		4.913	5.326	8.135	11	PASS
	40		4.558	4.911	7.748	11	PASS
	48		4.471	5.088	7.801	11	PASS
	52		4.43	4.647	7.550	11	PASS
	56		4.038	4.117	7.088	11	PASS
	64		4.78	4.836	7.818	11	PASS
	100		2.867	3.295	6.097	11	PASS
	116		4.636	4.593	7.625	11	PASS
	140		5.046	4.83	7.950	11	PASS
IEEE 802.11n_40	38		-0.395	-1.201	2.231	11	PASS
	46		0.851	1.061	3.968	11	PASS
	54		1.472	1.436	4.464	11	PASS
	62		-1.153	-1.093	1.887	11	PASS
	102		0.938	1.594	4.289	11	PASS
	110		1.903	1.374	4.657	11	PASS
	134		1.862	1.871	4.877	11	PASS
IEEE 802.11ac_20	36		4.045	4.097	7.081	11	PASS
	40		4.324	4.282	7.313	11	PASS
	48		4.016	4.117	7.077	11	PASS
	52		3.886	4.338	7.128	11	PASS
	56		3.48	3.723	6.613	11	PASS
	64		4.793	4.792	7.803	11	PASS
	100		4.706	4.198	7.470	11	PASS
	116		4.886	4.446	7.682	11	PASS
	140		4.54	4.464	7.512	11	PASS
IEEE 802.11ac_40	38		-0.745	-1.598	1.860	11	PASS
	46		1.496	2.303	4.929	11	PASS
	54		2.268	2.27	5.279	11	PASS
	62		-0.04	-0.744	2.633	11	PASS
	102		1.08	1.506	4.309	11	PASS
	110		1.456	1.131	4.307	11	PASS
	134		1.1	1.808	4.479	11	PASS
IEEE 802.11ac_80	42		-3.735	-2.844	-0.256	11	PASS
	58		-3.091	-3.126	-0.098	11	PASS
	106		-3.536	-3.397	-0.456	11	PASS
	122		-2.633	-3.47	-0.021	11	PASS
IEEE 802.11ax_20	36	242RU61	4.33	4.432	7.392	11	PASS
		26RU4	6.888	7.138	10.025	11	PASS
		52RU38	5.603	5.935	8.782	11	PASS
		106RU53	2.258	2.835	5.566	11	PASS
	40	242RU61	3.966	4.393	7.195	11	PASS
		26RU4	7.031	7.362	10.210	11	PASS
		52RU38	5.363	5.702	8.546	11	PASS
		106RU53	2.147	2.626	5.403	11	PASS
	48	242RU61	3.743	3.975	6.871	11	PASS
		26RU4	6.324	6.466	9.406	11	PASS
		52RU38	4.925	5.335	8.145	11	PASS
		106RU53	2.375	2.726	5.564	11	PASS
	52	242RU61	4.09	4.161	7.136	11	PASS
		26RU4	6.621	7.341	10.006	11	PASS
		52RU38	4.434	5.18	7.833	11	PASS

		106RU53	2.122	2.566	5.360	11	PASS
	56	242RU61	3.899	3.781	6.851	11	PASS
		26RU4	6.965	7.176	10.082	11	PASS
		52RU38	5.15	5.718	8.454	11	PASS
		106RU53	2.424	2.874	5.665	11	PASS
	64	242RU61	2.56	2.583	5.582	11	PASS
		26RU4	6.285	6.8	9.560	11	PASS
		52RU38	4.794	5.319	8.075	11	PASS
		106RU53	2.137	2.534	5.350	11	PASS
	100	242RU61	3.648	3.304	6.490	11	PASS
		26RU4	6.605	6.214	9.424	11	PASS
		52RU38	5.22	5.196	8.218	11	PASS
		106RU53	2.711	2.404	5.571	11	PASS
	116	242RU61	4.799	4.371	7.601	11	PASS
		26RU4	6.478	6.239	9.370	11	PASS
		52RU38	5.093	5.011	8.062	11	PASS
		106RU53	2.418	2.258	5.349	11	PASS
	140	242RU61	3.59	3.496	6.554	11	PASS
		26RU4	6.888	6.947	9.928	11	PASS
		52RU38	5.448	5.878	8.679	11	PASS
		106RU53	2.691	2.942	5.829	11	PASS
IEEE 802.11ax_40	38	484RU65	0.187	-1.251	2.538	11	PASS
		26RU8	7.426	7.95	10.706	11	PASS
		52RU40	4.68	5.128	7.920	11	PASS
		106RU54	0.927	1.29	4.123	11	PASS
		242RU61	-2.789	-2.131	0.563	11	PASS
	46	484RU65	1.156	1.193	4.185	11	PASS
		26RU8	7.304	7.351	10.338	11	PASS
		52RU40	4.297	4.689	7.508	11	PASS
		106RU54	1.614	1.941	4.791	11	PASS
		242RU61	-2.097	-1.711	1.111	11	PASS
	54	484RU65	0.392	0.78	3.601	11	PASS
		26RU8	6.626	7.137	9.899	11	PASS
		52RU40	3.949	4.3	7.138	11	PASS
		106RU54	0.926	1.45	4.206	11	PASS
		242RU61	-2.536	-1.906	0.801	11	PASS
	62	484RU65	-0.385	-1.066	2.298	11	PASS
		26RU8	6.434	6.707	9.583	11	PASS
		52RU40	4.086	4.461	7.288	11	PASS
		106RU54	1.531	2.25	4.916	11	PASS
		242RU61	-2.594	-1.992	0.728	11	PASS
	102	484RU65	-0.055	0.302	3.137	11	PASS
		26RU8	7.348	7.024	10.199	11	PASS
		52RU40	5.575	5.05	8.331	11	PASS
		106RU54	1.614	1.456	4.546	11	PASS
		242RU61	0.049	-0.738	2.684	11	PASS
	110	484RU65	1.706	1.13	4.438	11	PASS
		26RU8	7.644	7.231	10.453	11	PASS
		52RU40	5.411	4.939	8.192	11	PASS
		106RU54	2.475	2.523	5.509	11	PASS
		242RU61	-0.339	-1.147	2.286	11	PASS
	134	484RU65	1.438	1.437	4.448	11	PASS
		26RU8	6.915	7.086	10.012	11	PASS
		52RU40	5.4	5.587	8.505	11	PASS
		106RU54	1.642	1.939	4.803	11	PASS
		242RU61	-0.352	-0.571	2.550	11	PASS
IEEE 802.11ax_80	42	996RU67	-3.217	-3.465	-0.329	11	PASS
		26RU17	6.74	7.566	10.183	11	PASS
		52RU44	4.12	4.695	7.427	11	PASS
		106RU56	1.078	1.553	4.332	11	PASS
		242RU62	-2.958	-2.026	0.543	11	PASS
		484RU65	-5.008	-4.43	-1.699	11	PASS
	58	996RU67	-2.93	-3.718	-0.296	11	PASS
		26RU17	7.014	7.943	10.514	11	PASS

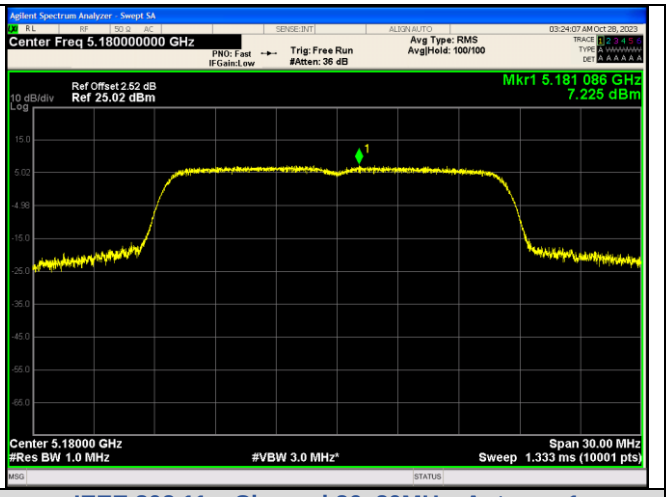
		52RU44	4.344	4.826	7.602	11	PASS
		106RU56	1.216	1.898	4.581	11	PASS
		242RU62	-2.362	-1.934	0.868	11	PASS
		484RU65	-4.752	-4.338	-1.530	11	PASS
	106	996RU67	-2.372	-2.107	0.773	11	PASS
		26RU17	7.738	7.449	10.606	11	PASS
		52RU44	5.004	4.689	7.860	11	PASS
		106RU56	2.527	2.004	5.284	11	PASS
		242RU62	-1.006	-1.196	1.910	11	PASS
		484RU65	-3.596	-3.714	-0.644	11	PASS
	122	996RU67	-1.332	-1.483	1.603	11	PASS
		26RU17	7.475	7.695	10.597	11	PASS
		52RU44	5.353	5.154	8.265	11	PASS
		106RU56	2.03	2.157	5.104	11	PASS
		242RU62	-1.275	-1.464	1.642	11	PASS
		484RU65	-3.707	-3.831	-0.758	11	PASS

Mode	Channel	RU & Index	Ant. 0	Ant. 1	Total PSD	Limit (dBm/0.5MHz)	Result
IEEE 802.11a	149	N/A	3.556	3.802	N/A	30	PASS
	157		2.704	2.959	N/A	30	PASS
	165		2.672	2.795	N/A	30	PASS
IEEE 802.11n_20	149		0.956	1.415	4.202	30	PASS
	157		1.171	0.63	3.919	30	PASS
	165		1.221	1.211	4.226	30	PASS
IEEE 802.11n_40	151		-1.73	-1.343	1.478	30	PASS
	159		-2.423	-1.894	0.860	30	PASS
IEEE 802.11ac_20	149		1.884	2.077	4.992	30	PASS
	157		1.314	1.881	4.617	30	PASS
	165		0.804	1.116	3.973	30	PASS
IEEE 802.11ac_40	151		-2.611	-2.096	0.664	30	PASS
	159		-1.732	-1.25	1.526	30	PASS
IEEE 802.11ac_80	155		-6.199	-6.388	-3.282	30	PASS
IEEE 802.11ax_20	149	242RU61	0.66	1.07	3.880	30	PASS
		26RU4	4.778	5.525	8.178	30	PASS
		52RU38	2.089	2.759	5.447	30	PASS
		106RU53	-0.551	-0.076	2.703	30	PASS
	157	242RU61	1.066	1.771	4.443	30	PASS
		26RU4	4.862	5.295	8.094	30	PASS
		52RU38	1.502	2.233	4.893	30	PASS
		106RU53	-0.354	0.14	2.910	30	PASS
	165	242RU61	0.914	1.187	4.063	30	PASS
		26RU4	4.424	4.703	7.576	30	PASS
		52RU38	1.488	1.917	4.718	30	PASS
		106RU53	-0.148	0.275	3.079	30	PASS
IEEE 802.11ax_40	151	484RU65	-0.942	-0.14	2.488	30	PASS
		26RU8	5.558	6.07	8.832	30	PASS
		52RU40	2.035	2.826	5.459	30	PASS
		106RU54	-0.765	-0.088	2.597	30	PASS
		242RU61	-3.113	-2.785	0.064	30	PASS
	159	484RU65	-1.181	-0.958	1.942	30	PASS
		26RU8	4.605	4.854	7.742	30	PASS
		52RU40	1.444	1.946	4.713	30	PASS
		106RU54	-1.547	-1.059	1.714	30	PASS
		242RU61	-3.914	-3.655	-0.772	30	PASS
IEEE 802.11ax_80	155	996RU67	-3.592	-3.864	-0.716	30	PASS
		26RU17	4.558	5.137	7.867	30	PASS
		52RU44	2.305	2.703	5.519	30	PASS
		106RU56	-1.735	-1.287	1.505	30	PASS
		242RU62	-4.564	-4.203	-1.369	30	PASS
		484RU65	-5.388	-5.063	-2.212	30	PASS

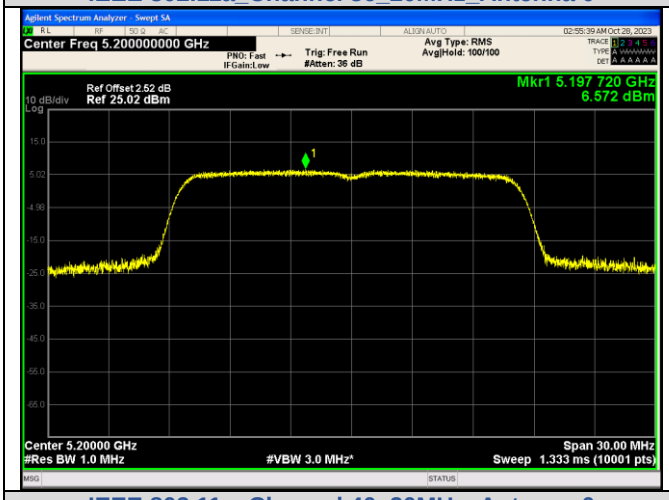
Test plot as follows:



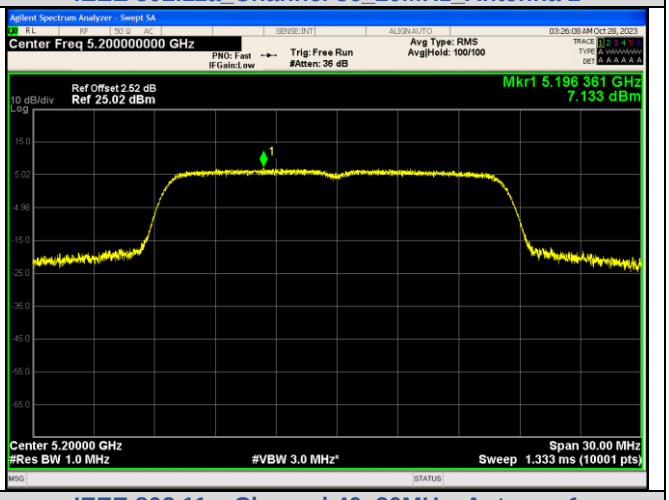
IEEE 802.11a_Channel 36_20MHz_Antenna 0



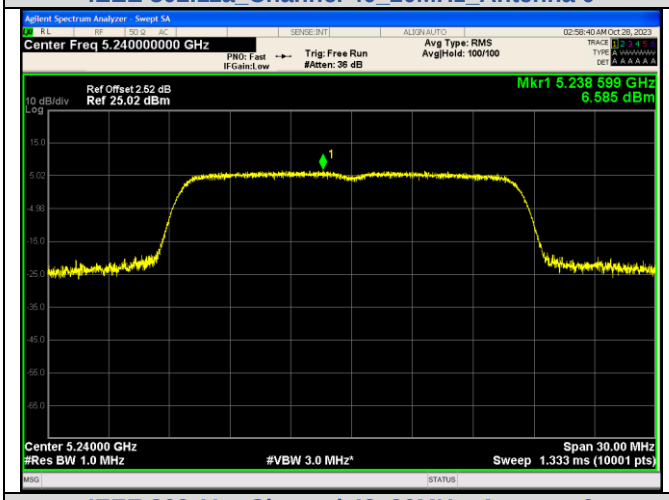
IEEE 802.11a_Channel 36_20MHz_Antenna 1



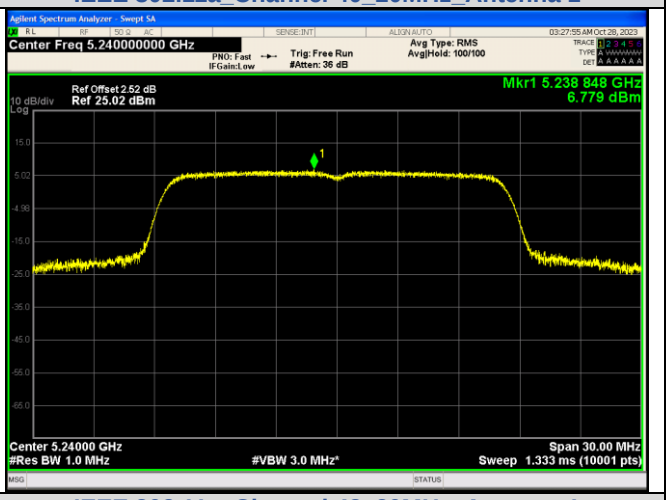
IEEE 802.11a_Channel 40_20MHz_Antenna 0



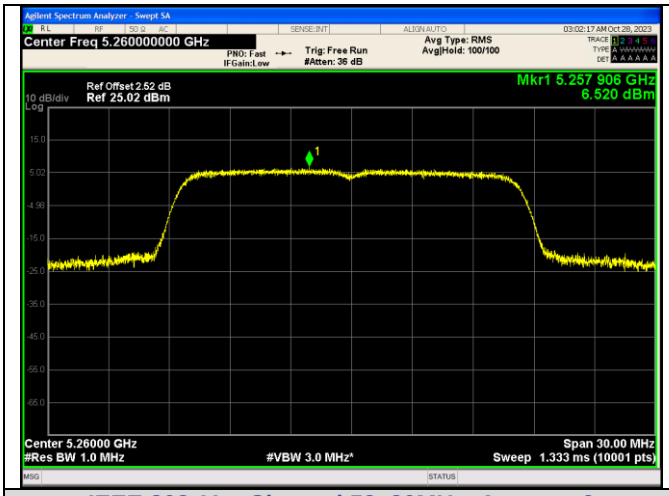
IEEE 802.11a_Channel 40_20MHz_Antenna 1



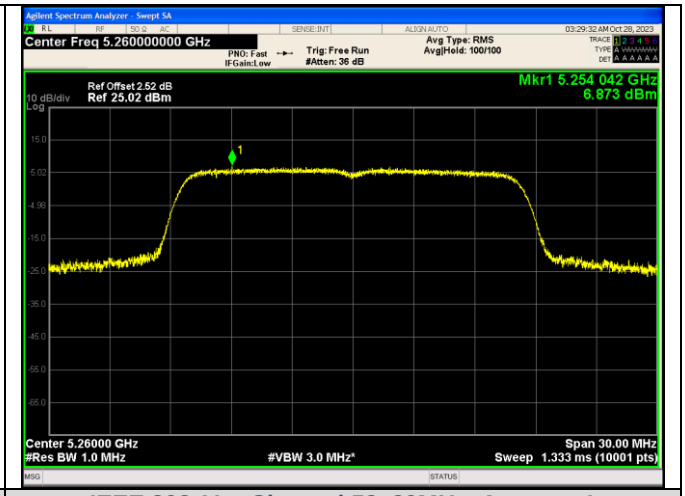
IEEE 802.11a_Channel 48_20MHz_Antenna 0



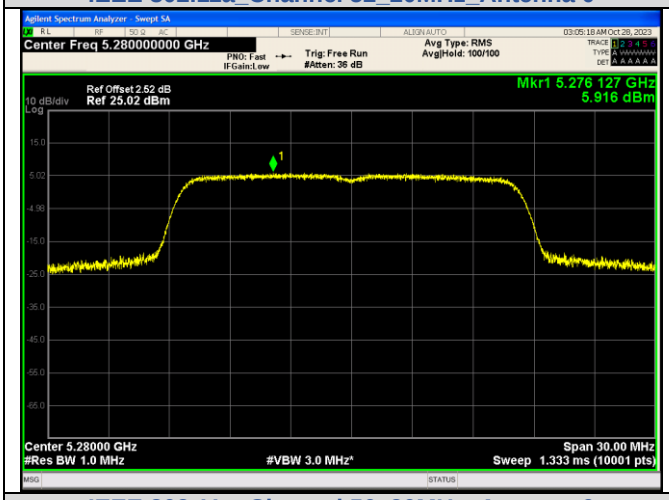
IEEE 802.11a_Channel 48_20MHz_Antenna 1



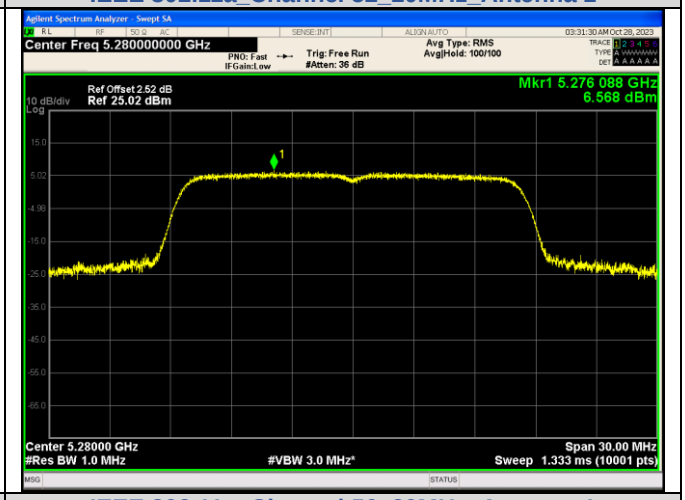
IEEE 802.11a_Channel 52_20MHz_Antenna 0



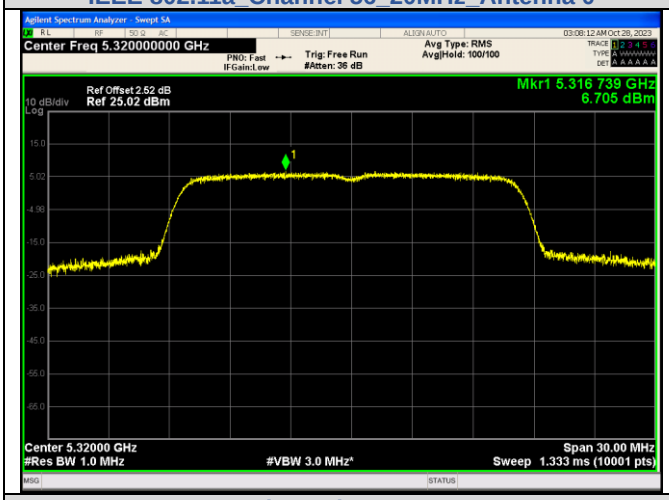
IEEE 802.11a_Channel 52_20MHz_Antenna 1



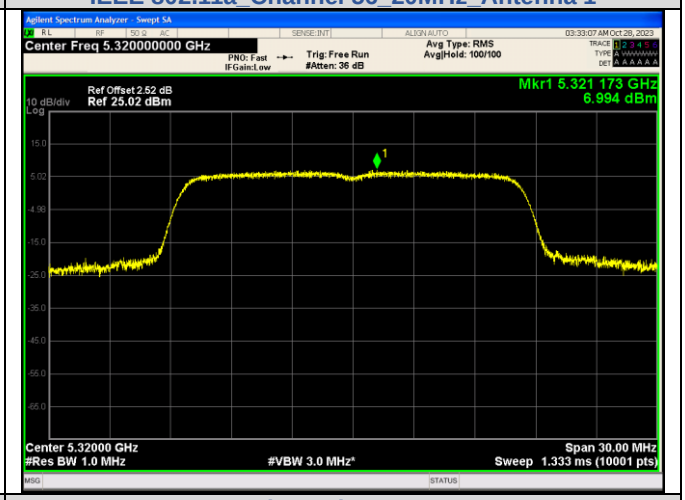
IEEE 802.11a_Channel 56_20MHz_Antenna 0



IEEE 802.11a_Channel 56_20MHz_Antenna 1



IEEE 802.11a_Channel 64_20MHz_Antenna 0



IEEE 802.11a_Channel 64_20MHz_Antenna 1

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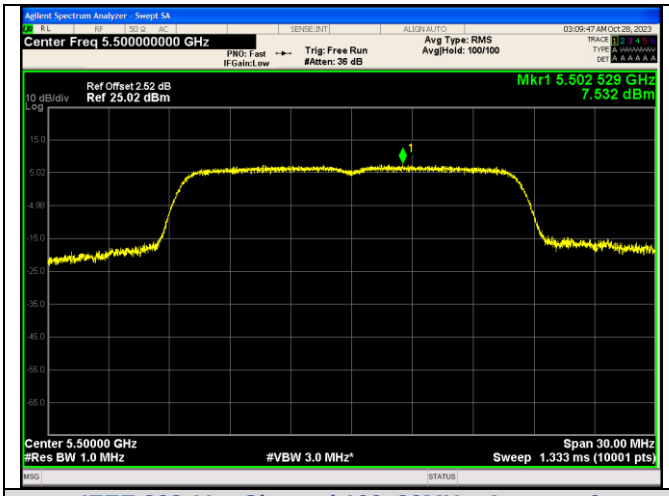
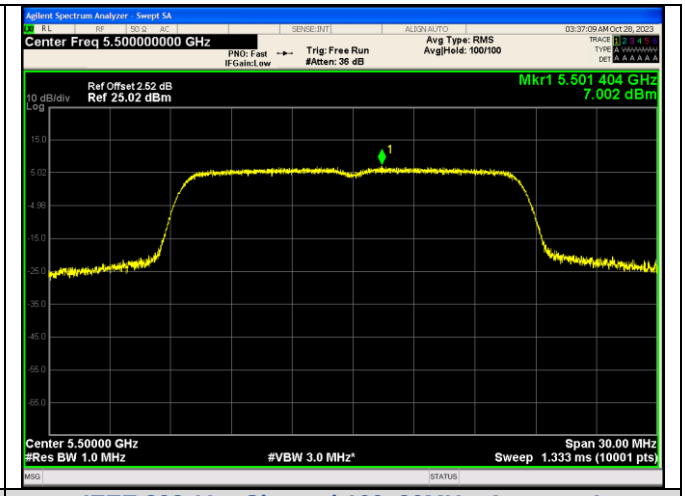
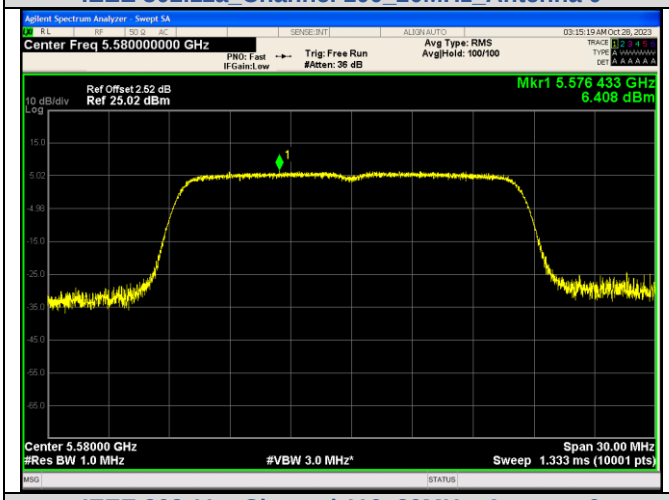


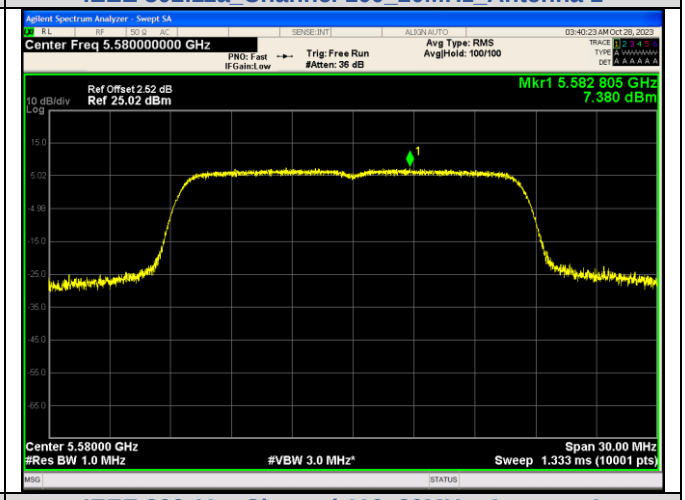
IEEE 802.11a_Channel 100_20MHz_Antenna 0



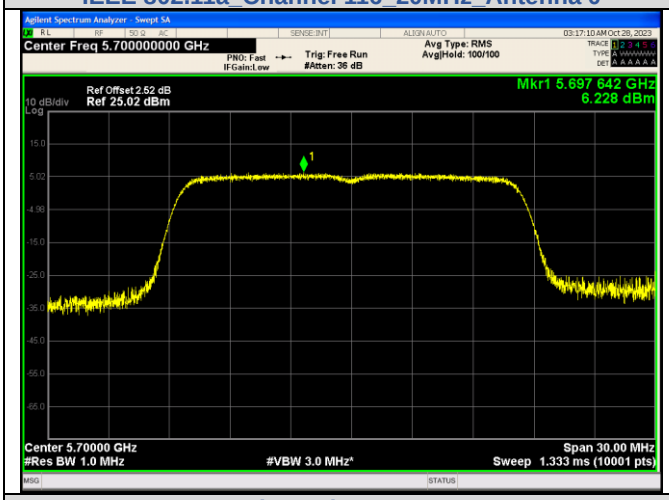
IEEE 802.11a_Channel 100_20MHz_Antenna 1



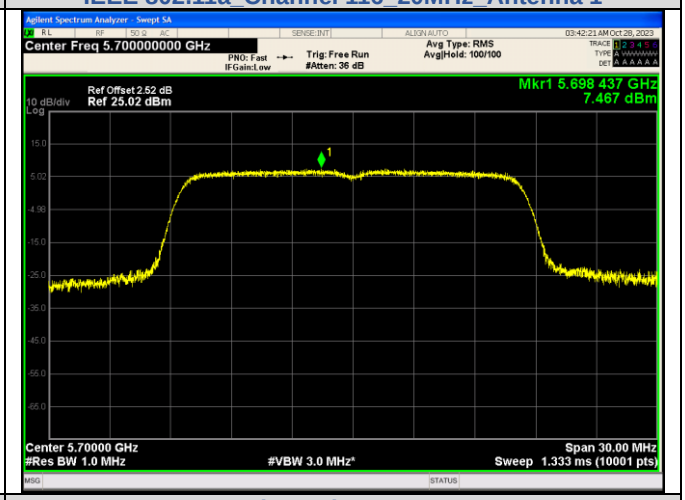
IEEE 802.11a_Channel 116_20MHz_Antenna 0



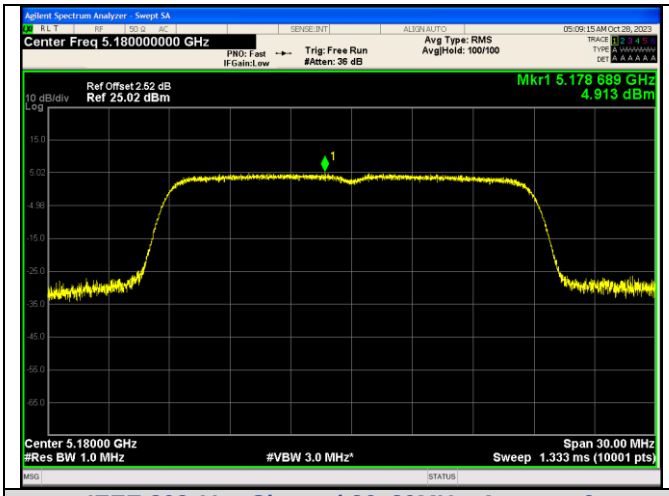
IEEE 802.11a_Channel 116_20MHz_Antenna 1



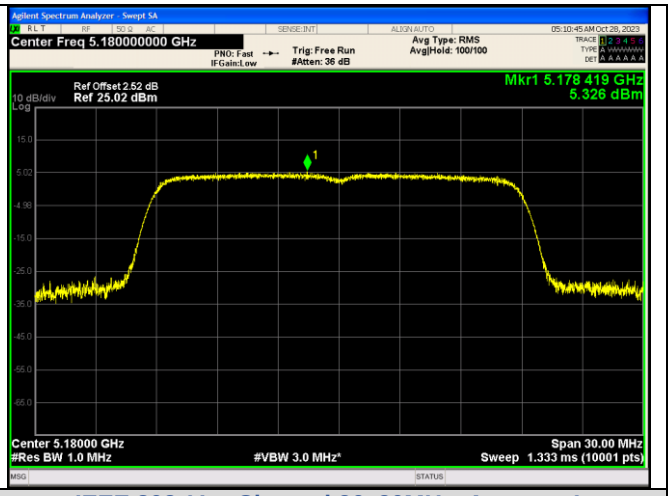
IEEE 802.11a_Channel 140_20MHz_Antenna 0



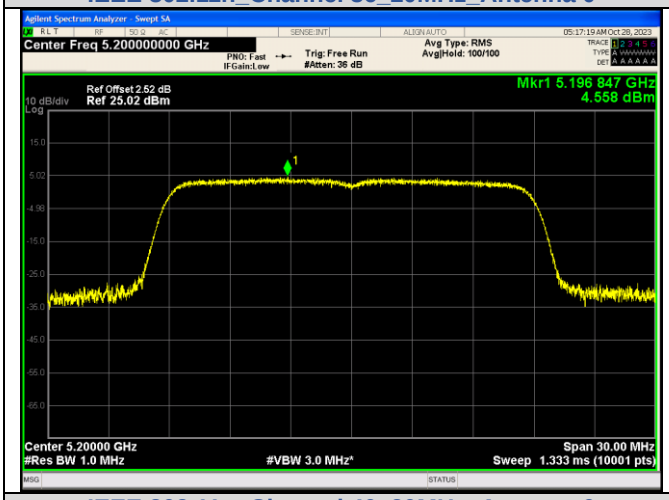
IEEE 802.11a_Channel 140_20MHz_Antenna 1



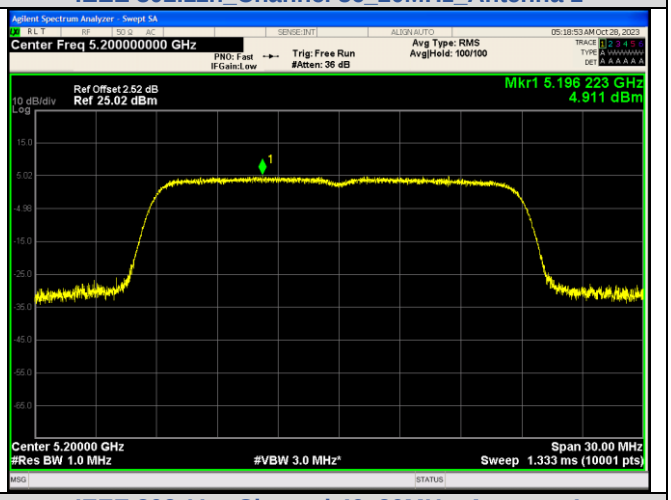
IEEE 802.11n_Channel 36_20MHz_Antenna 0



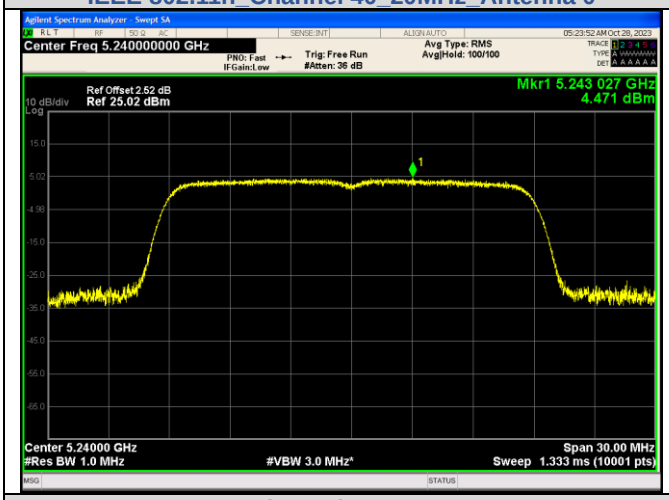
IEEE 802.11n_Channel 36_20MHz_Antenna 1



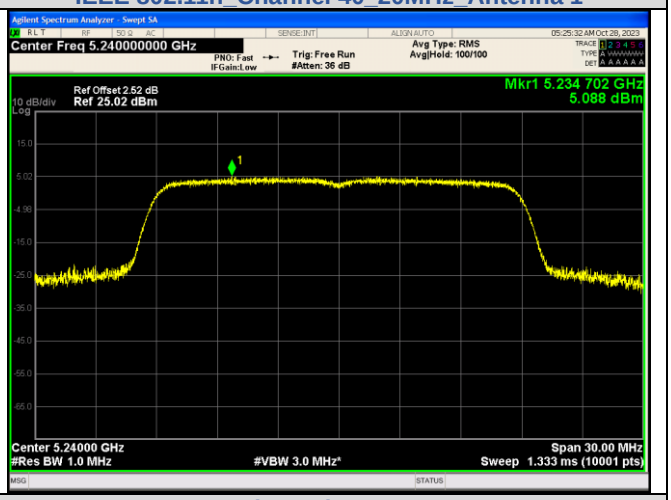
IEEE 802.11n_Channel 40_20MHz_Antenna 0



IEEE 802.11n_Channel 40_20MHz_Antenna 1



IEEE 802.11n_Channel 48_20MHz_Antenna 0



IEEE 802.11n_Channel 48_20MHz_Antenna 1

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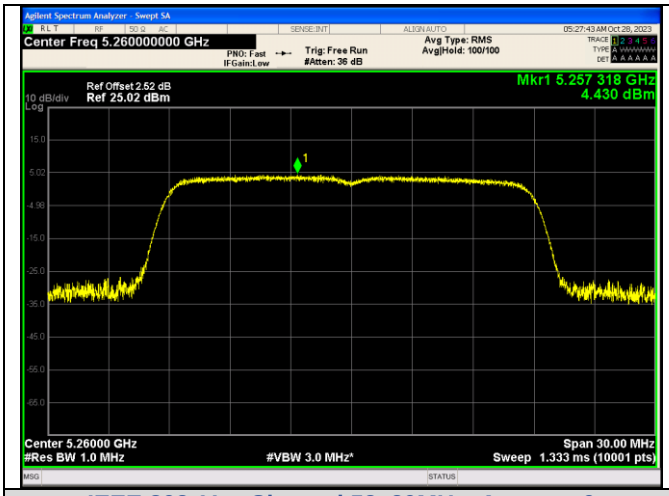
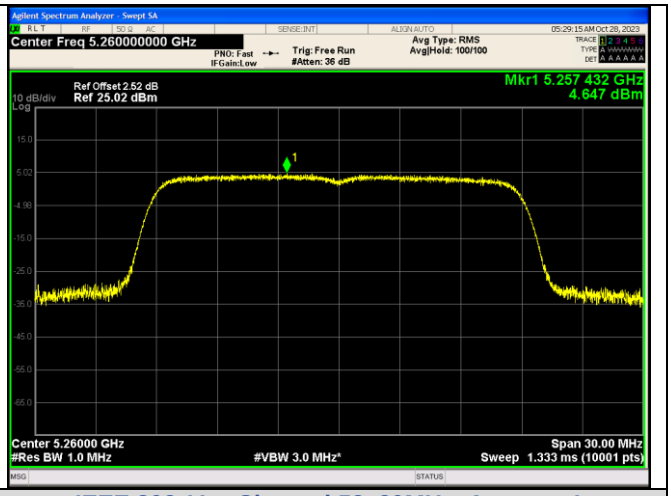
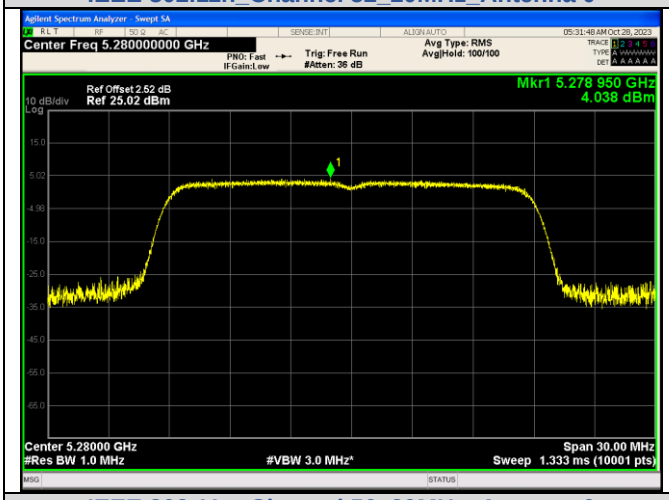


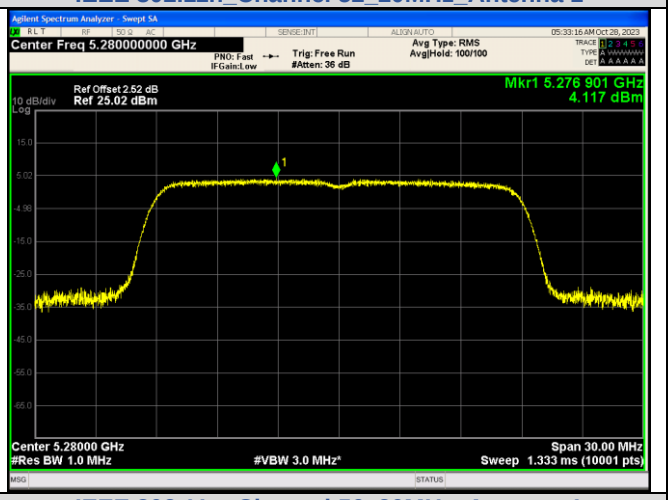
IEEE 802.11n_Channel 52_20MHz_Antenna 0



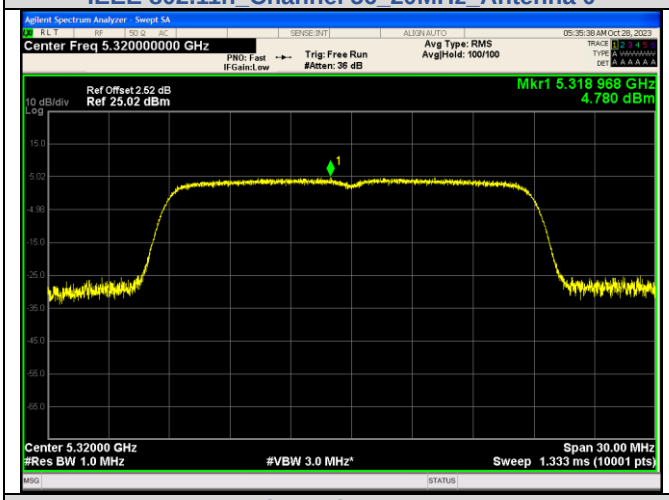
IEEE 802.11n_Channel 52_20MHz_Antenna 1



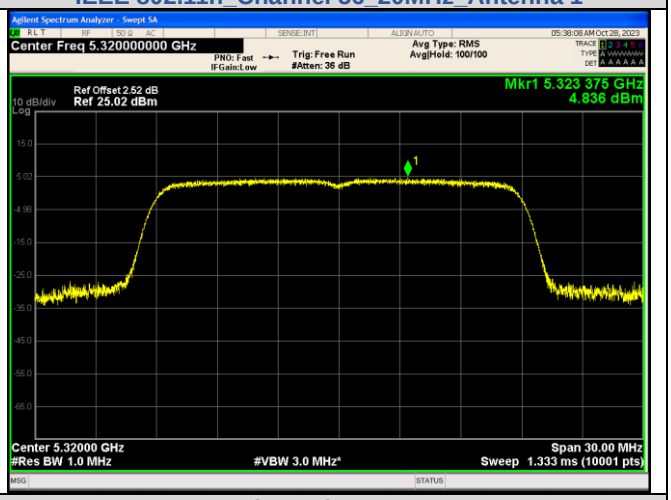
IEEE 802.11n_Channel 56_20MHz_Antenna 0



IEEE 802.11n_Channel 56_20MHz_Antenna 1



IEEE 802.11n_Channel 64_20MHz_Antenna 0



IEEE 802.11n_Channel 64_20MHz_Antenna 1

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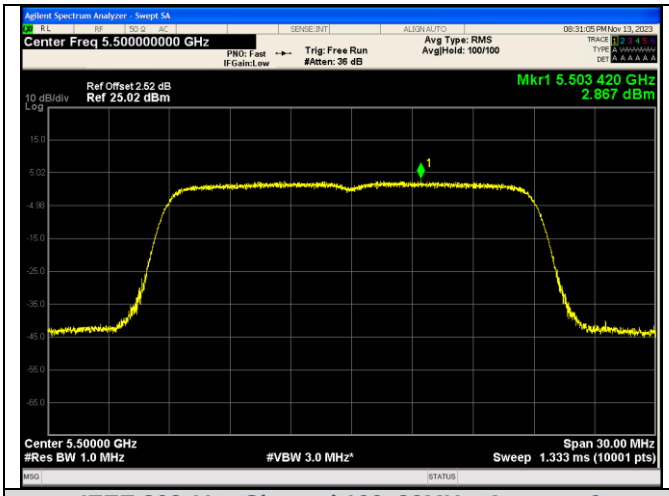
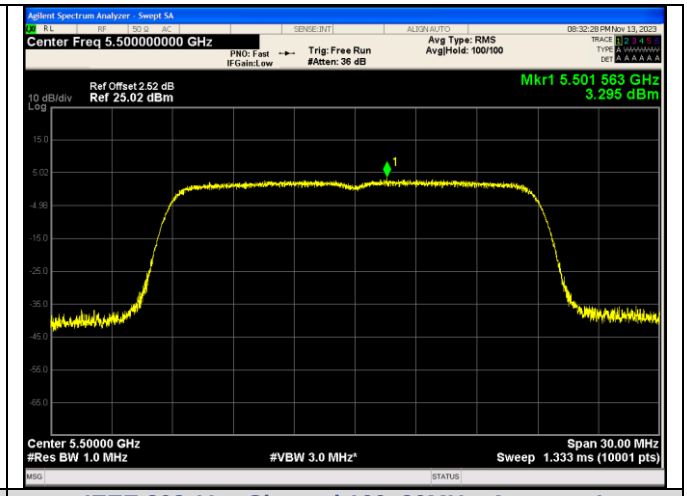
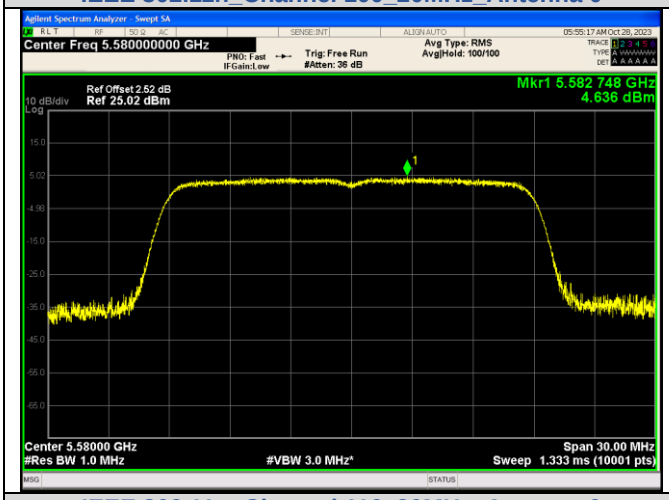


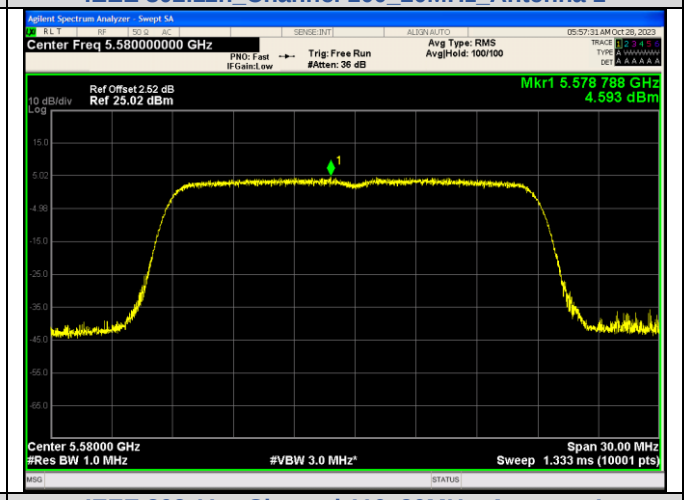
IEEE 802.11n_Channel 100_20MHz_Antenna 0



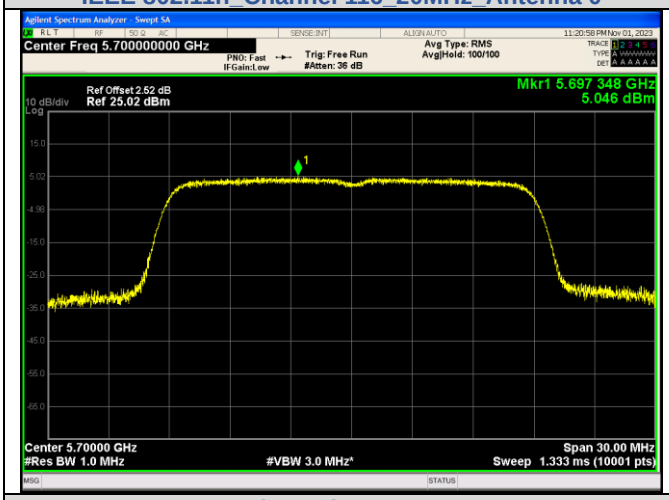
IEEE 802.11n_Channel 100_20MHz_Antenna 1



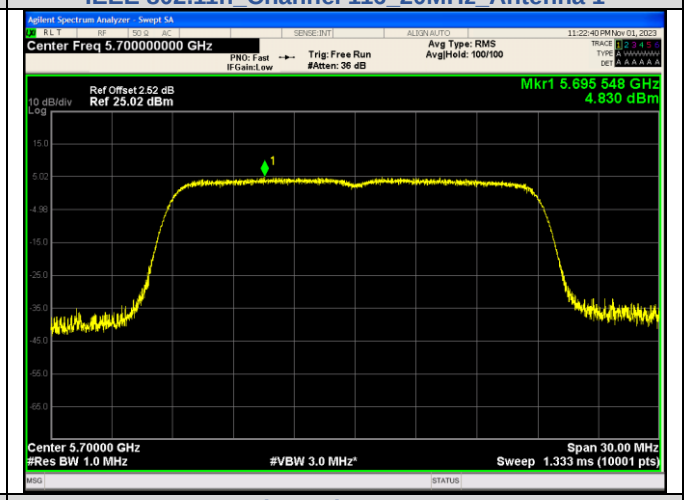
IEEE 802.11n_Channel 116_20MHz_Antenna 0



IEEE 802.11n_Channel 116_20MHz_Antenna 1



IEEE 802.11n_Channel 140_20MHz_Antenna 0



IEEE 802.11n_Channel 140_20MHz_Antenna 1

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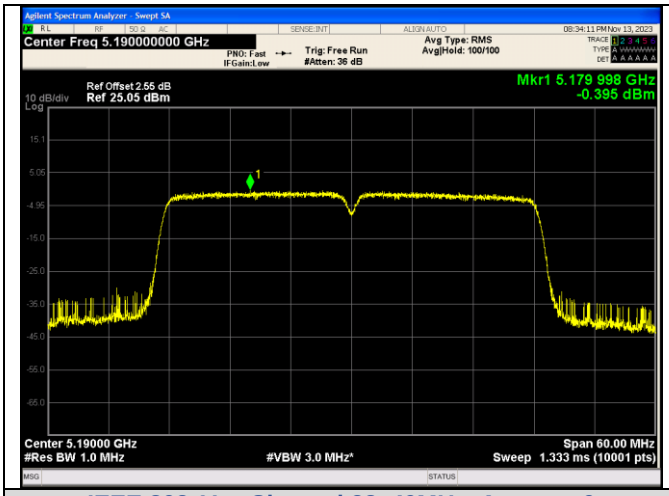
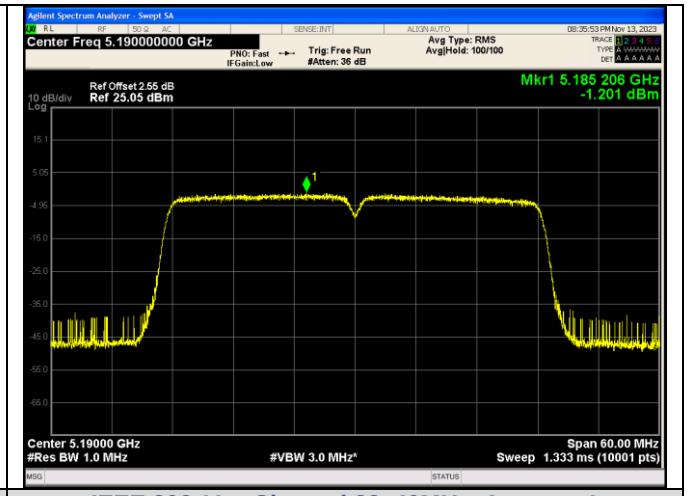
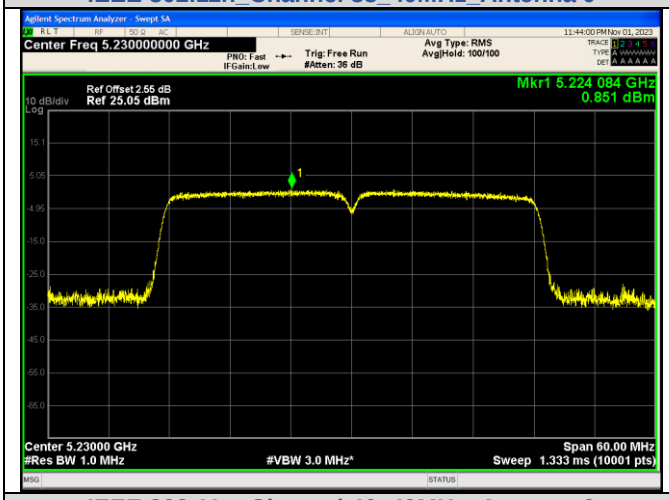


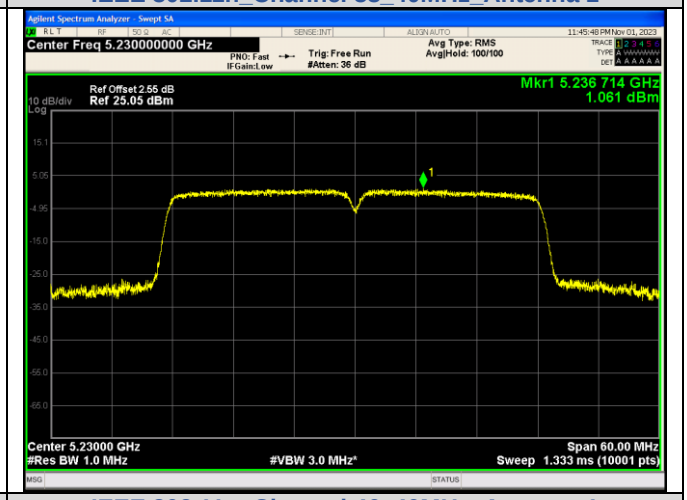
IEEE 802.11n_Channel 38_40MHz_Antenna 0



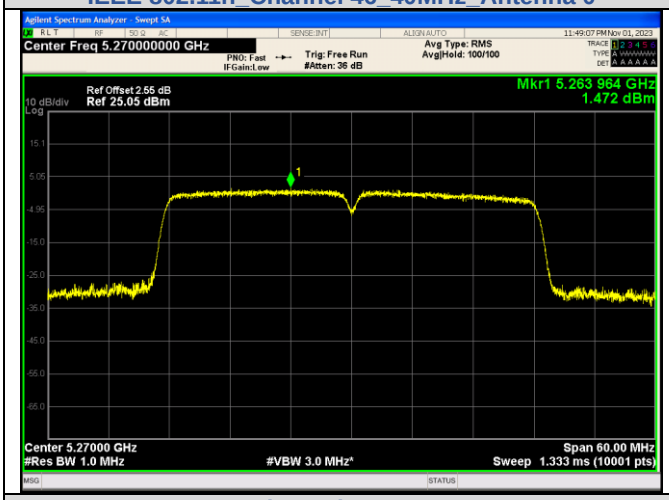
IEEE 802.11n_Channel 38_40MHz_Antenna 1



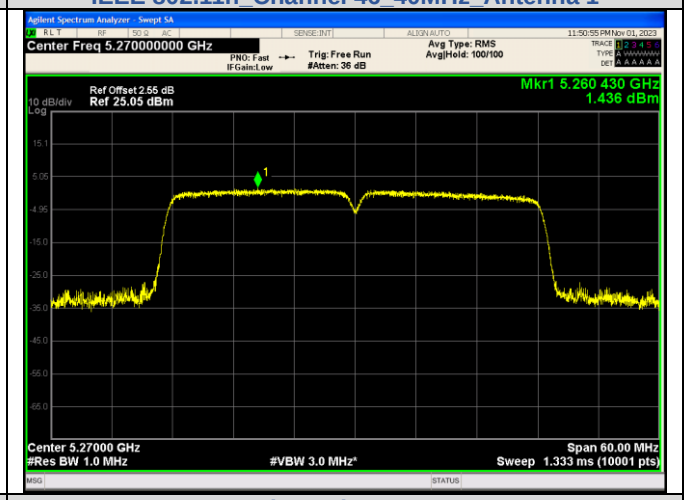
IEEE 802.11n_Channel 46_40MHz_Antenna 0



IEEE 802.11n_Channel 46_40MHz_Antenna 1



IEEE 802.11n_Channel 54_40MHz_Antenna 0



IEEE 802.11n_Channel 54_40MHz_Antenna 1

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