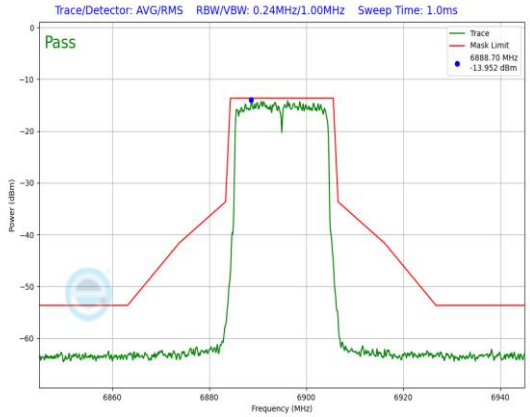
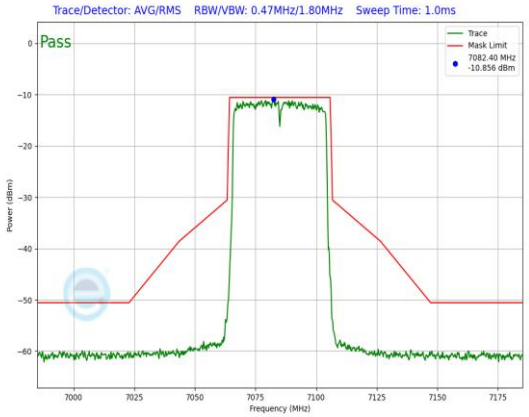
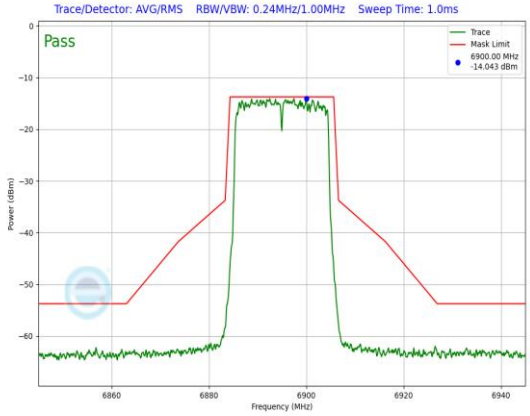


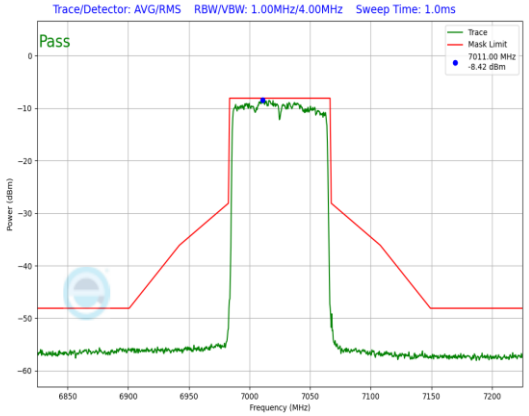
Plot 7-833. In-Band Emission Plot SDM Primary Antenna 5T (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 189)



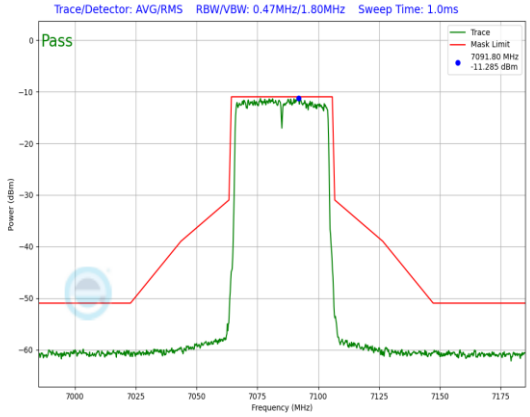
Plot 7-836. In-Band Emission Plot SDM Primary Antenna 3b (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 227)



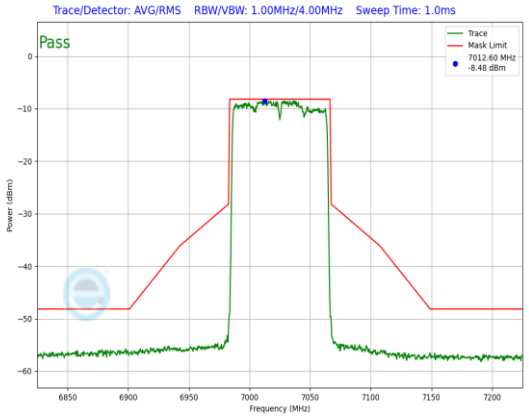
Plot 7-834. In-Band Emission Plot SDM Primary Antenna 3b (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 189)



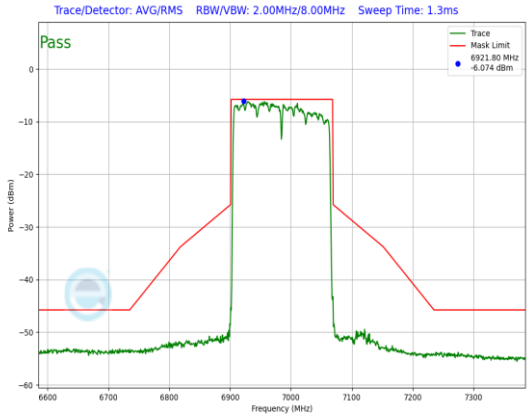
Plot 7-837. In-Band Emission Plot SDM Primary Antenna 5T (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



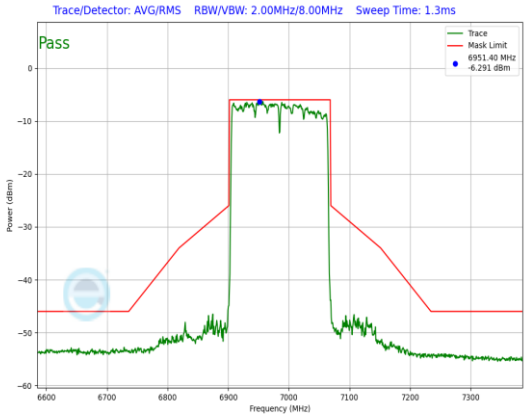
Plot 7-835. In-Band Emission Plot SDM Primary Antenna 5T (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 227)



Plot 7-838. In-Band Emission Plot SDM Primary Antenna 3b (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



Plot 7-839. In-Band Emission Plot SDM Primary Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)



Plot 7-840. In-Band Emission Plot SDM Primary Antenna 3b (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)

7.5.9 CDD/SDM Diversity In-Band Emission Measurements – SP

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 5	5935	1	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	5935	1	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	5935	1	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6025	15 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6025		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6025	15 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6181	47 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6181		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6181	47 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6345	79 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6345		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6345	79 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
Band 6	6345	97	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6345	97	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6345	97	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6505	111 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6505		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6505	111 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass

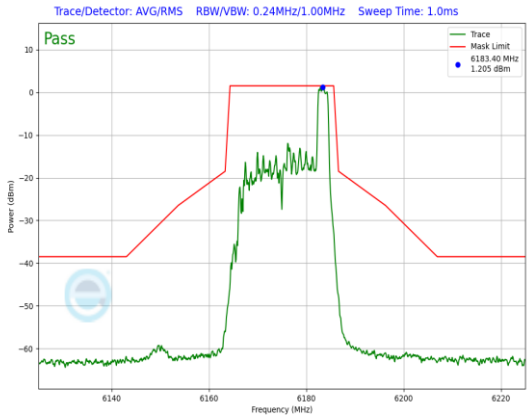
Table 7-191. In-Band Emission Measurements CDD/SDM Diversity (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 7	6535	117	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6535	117	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6535	117	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6875	181	ax (20MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6875	181	ax (20MHz)	26	4	CDD	25/29.4 (MCS11)	Pass	Pass
	6875	181	ax (20MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	26	17	CDD	25/29.4 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	26	17	CDD	25/29.4 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	26	8	CDD	25/29.4 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	26	17	CDD	25/29.4 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	26	18	CDD	25/29.4 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	26	36	CDD	25/29.4 (MCS11)	Pass	Pass
	6545	135	ax (80MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6545	135	ax (80MHz)	26	18	CDD	25/29.4 (MCS11)	Pass	Pass
	6545	135	ax (80MHz)	26	36	CDD	25/29.4 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	26	18	CDD	25/29.4 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	26	36	CDD	25/29.4 (MCS11)	Pass	Pass
	6865	167	ax (80MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6865	167	ax (80MHz)	26	18	CDD	25/29.4 (MCS11)	Pass	Pass
	6865	167	ax (80MHz)	26	36	CDD	25/29.4 (MCS11)	Pass	Pass
	6665	143 (L)	ax (160MHz)	26	0	CDD	25/29.4 (MCS11)	Pass	Pass
	6665		ax (160MHz)	26	36	CDD	25/29.4 (MCS11)	Pass	Pass
	6665	143 (U)	ax (160MHz)	26	36	CDD	25/29.4 (MCS11)	Pass	Pass

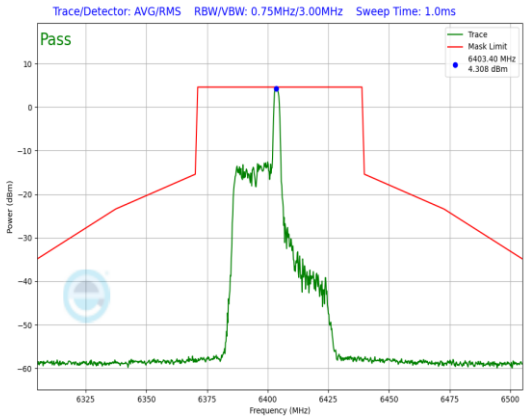
Table 7-192. In-Band Emission Measurements CDD/SDM Diversity (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 5	5935	1	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6025	15	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
	6181	47	ax (160MHz)	996x2	68	CDD	2041.6/2402 (MCS11)	Pass	Pass
	6345	79	ax (160MHz)	996x2	68	CDD	2041.6/2402 (MCS11)	Pass	Pass
Band 6	6345	97	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6505	111	ax (160MHz)	996x2	68	CDD	2041.6/2402 (MCS11)	Pass	Pass
Band 7	6535	117	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6875	181	ax (20MHz)	242	61	CDD	243.8/286.8 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	484	65	CDD	487.5/573.5 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6545	135	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6865	167	ax (80MHz)	996	67	CDD	1020.8/1201 (MCS11)	Pass	Pass
	6665	143	ax (160MHz)	996x2	68	CDD	2041.6/2402 (MCS11)	Pass	Pass

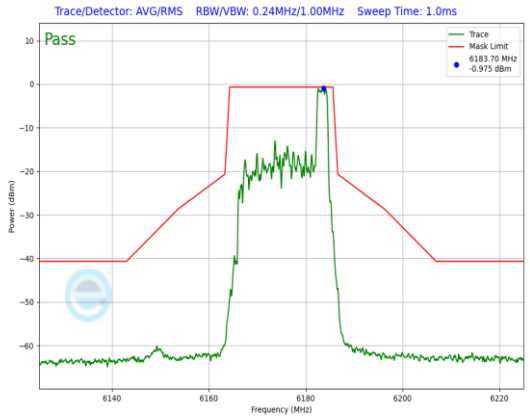
Table 7-193. In-Band Emission Measurements CDD/SDM Diversity (Fully-loaded RU)



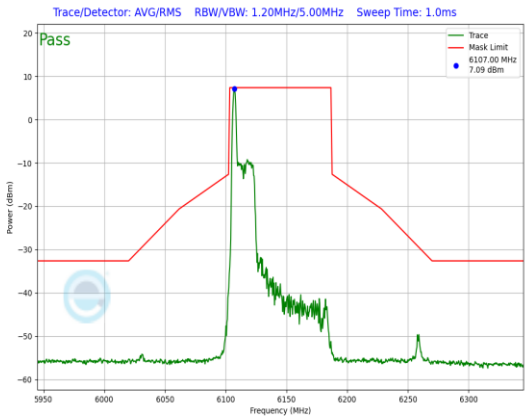
Plot 7-841. In-Band Emission Plot CDD Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 45)



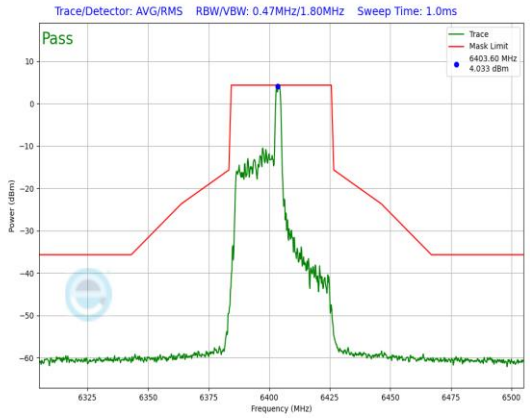
Plot 7-844. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 91)



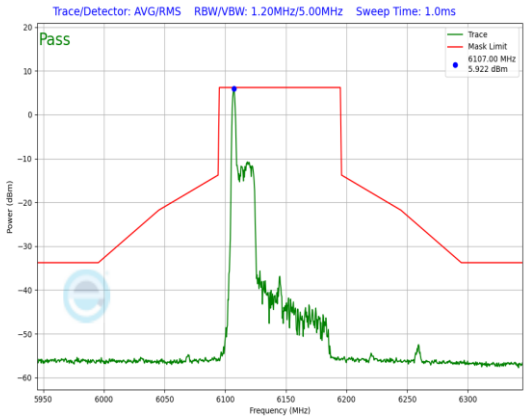
Plot 7-842. In-Band Emission Plot CDD Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 45)



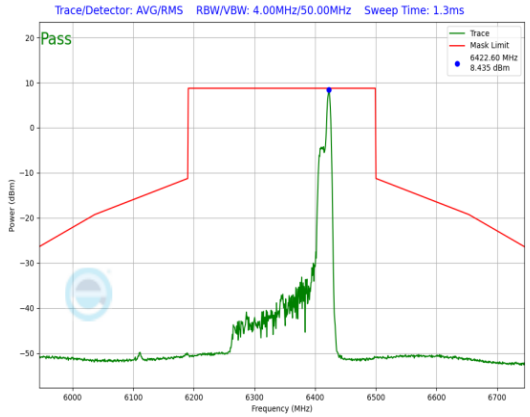
Plot 7-845. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



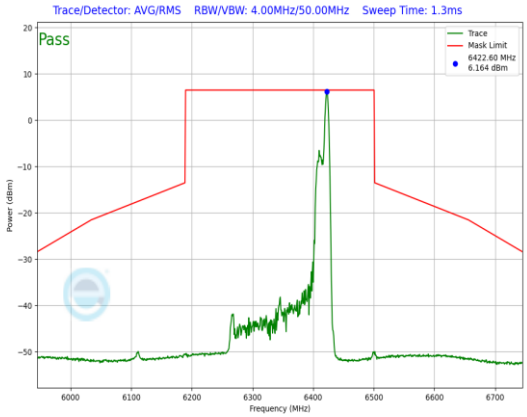
Plot 7-843. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 91)



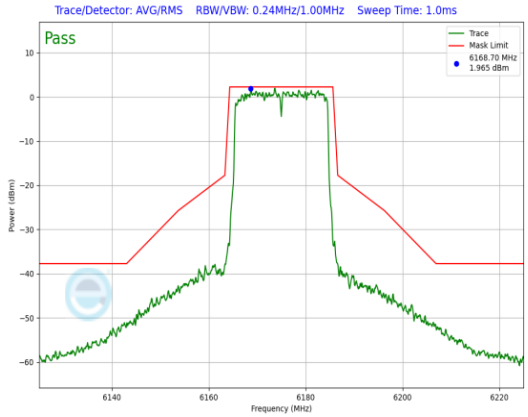
Plot 7-846. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



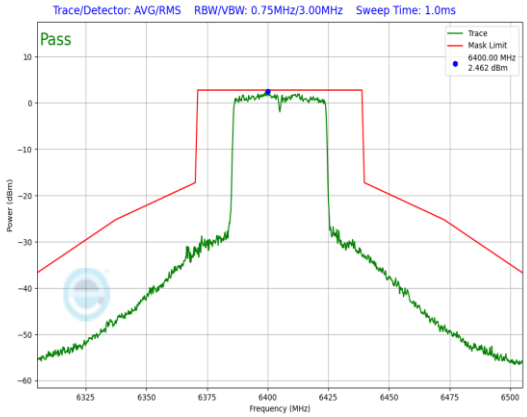
Plot 7-847. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 79)



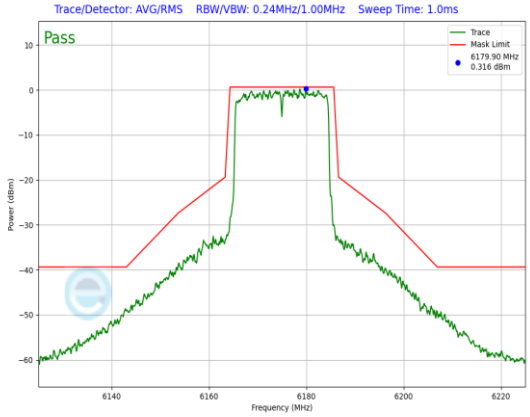
Plot 7-848. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 79)



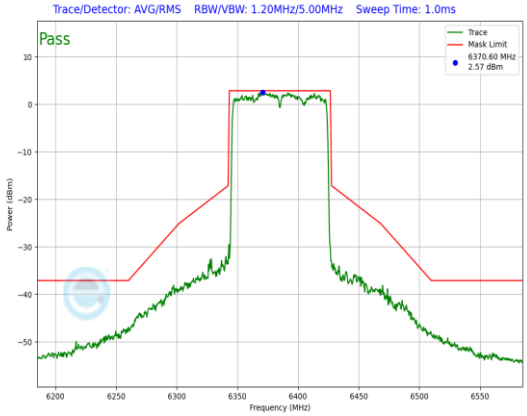
Plot 7-849. In-Band Emission Plot CDD Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



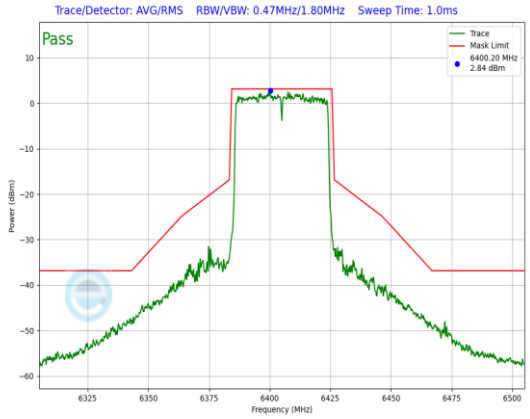
Plot 7-852. In-Band Emission Plot CDD Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 91)



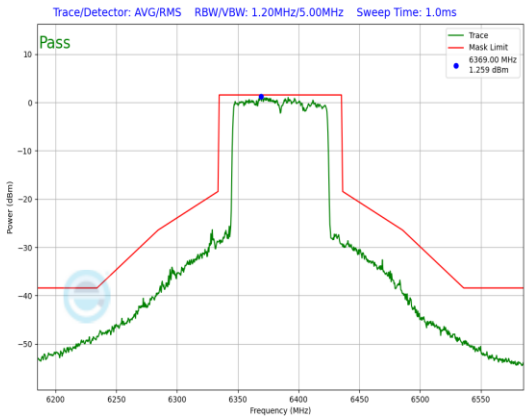
Plot 7-850. In-Band Emission Plot CDD Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



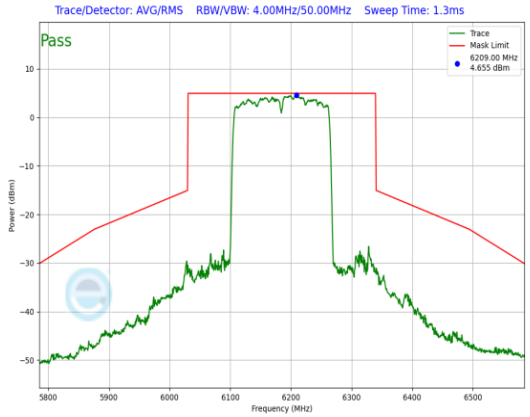
Plot 7-853. In-Band Emission Plot CDD Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



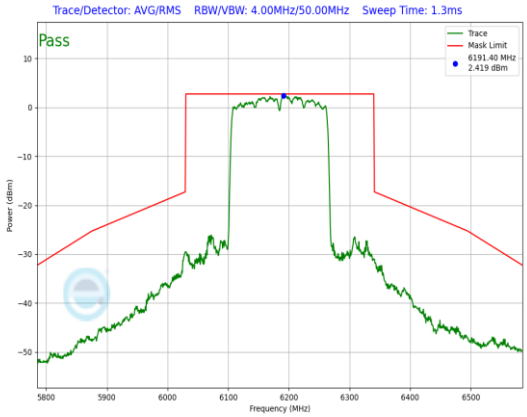
Plot 7-851. In-Band Emission Plot CDD Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 91)



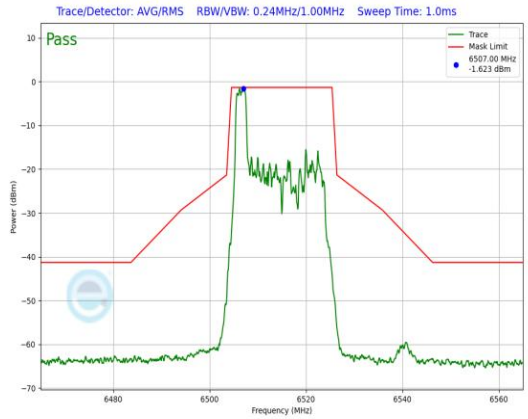
Plot 7-854. In-Band Emission Plot CDD Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



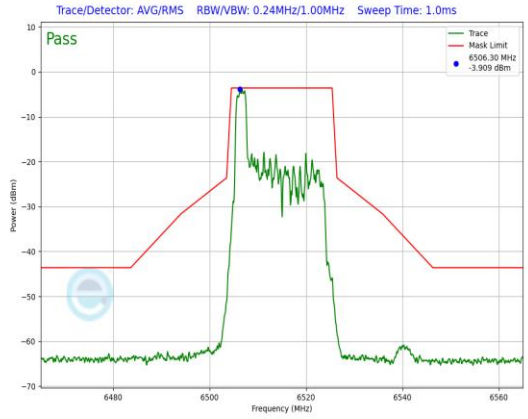
Plot 7-855. In-Band Emission Plot CDD Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



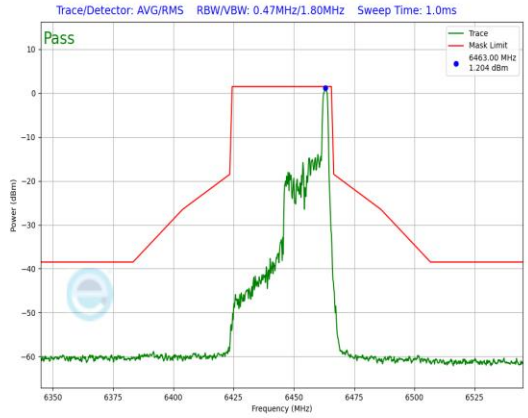
Plot 7-856. In-Band Emission Plot CDD Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



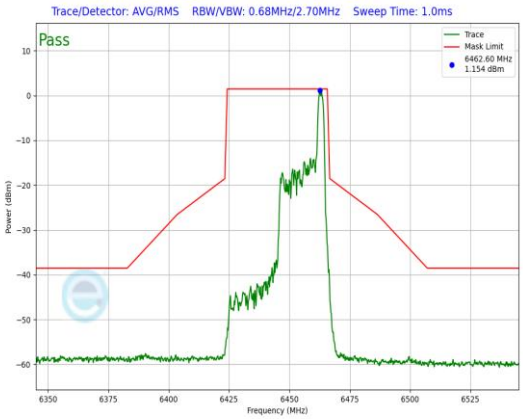
Plot 7-857. In-Band Emission Plot CDD Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 113)



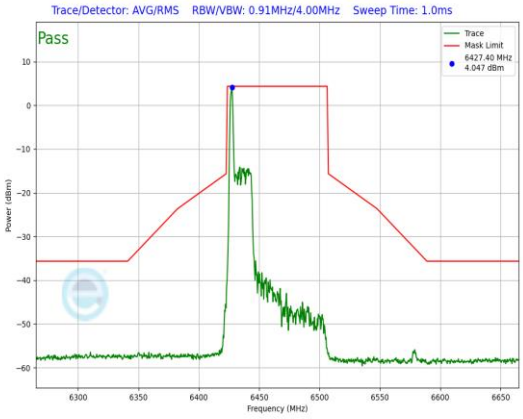
Plot 7-858. In-Band Emission Plot CDD Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 113)



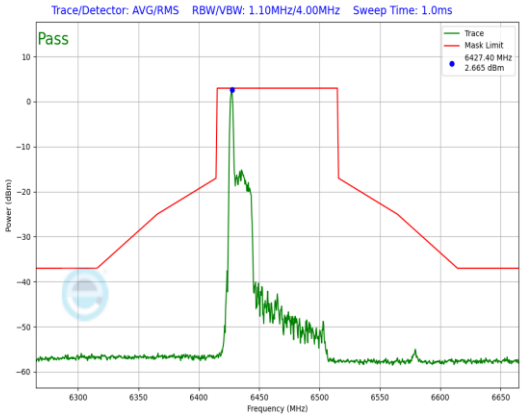
Plot 7-859. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 99)



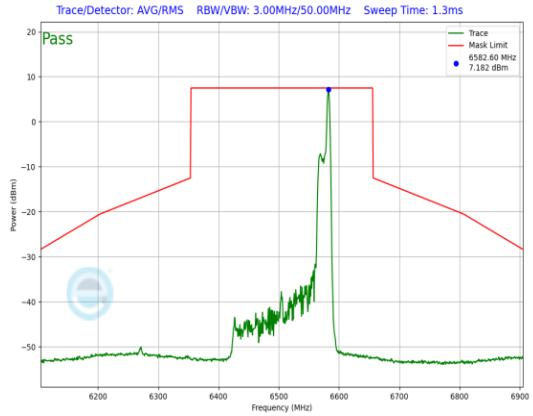
Plot 7-860. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 99)



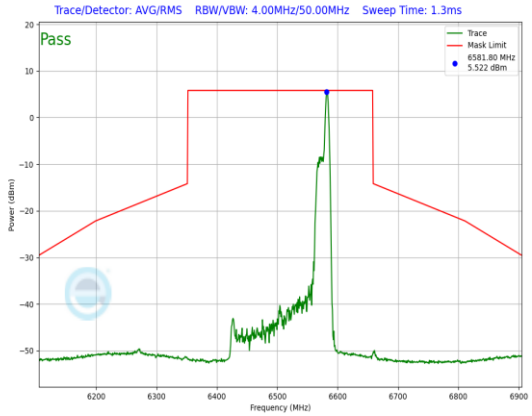
Plot 7-861. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



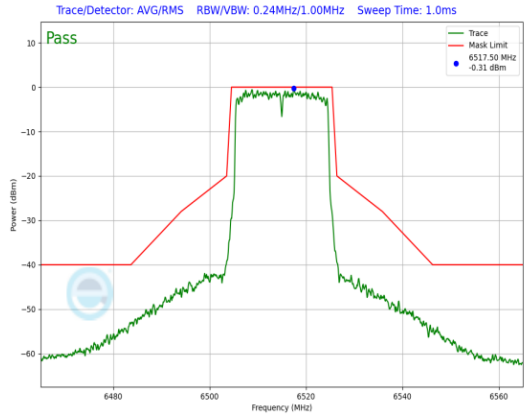
Plot 7-862. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



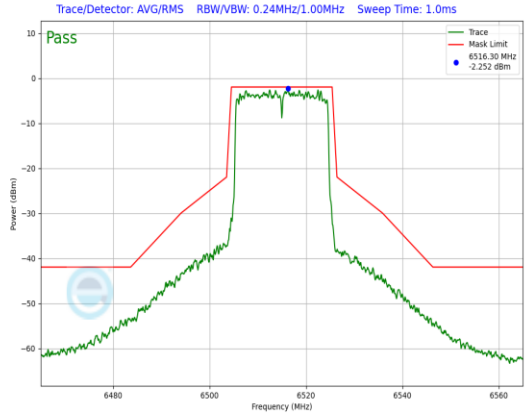
Plot 7-863. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)



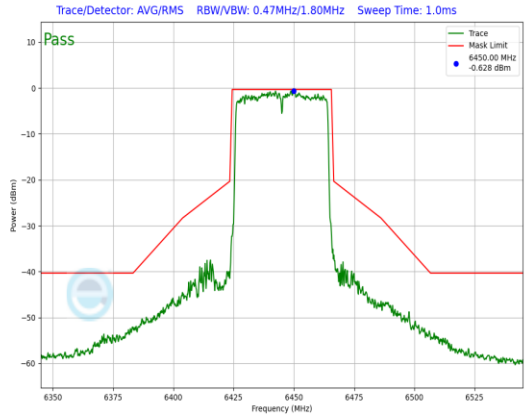
Plot 7-864. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)



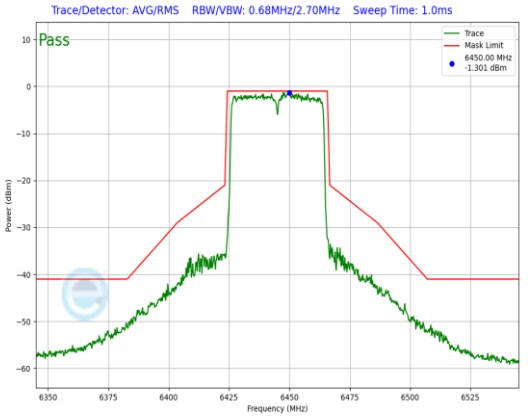
Plot 7-865. In-Band Emission Plot CDD Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 113)



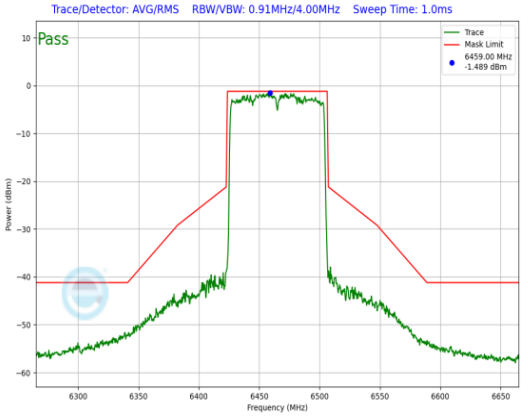
Plot 7-866. In-Band Emission Plot CDD Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 113)



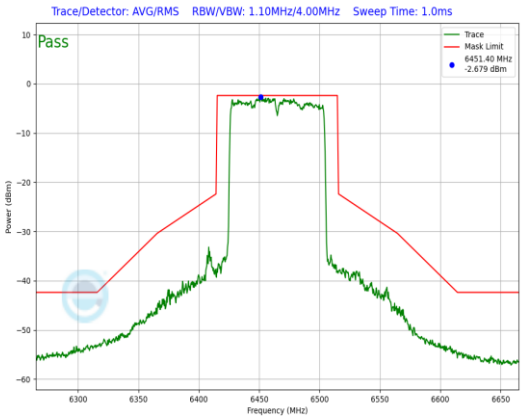
Plot 7-867. In-Band Emission Plot CDD Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



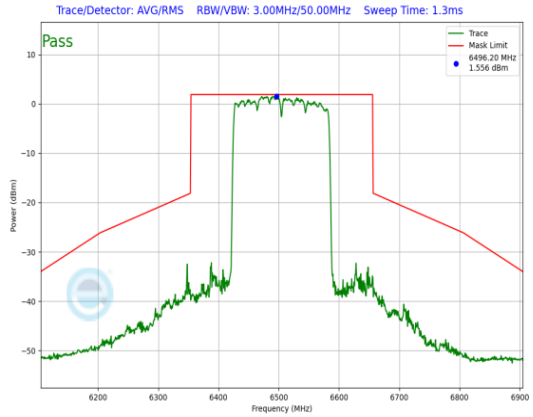
Plot 7-868. In-Band Emission Plot CDD Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



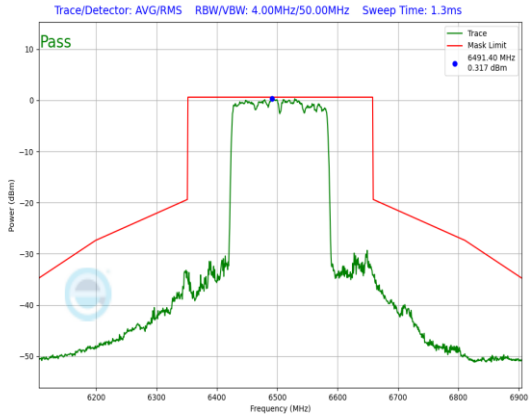
Plot 7-869. In-Band Emission Plot CDD Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



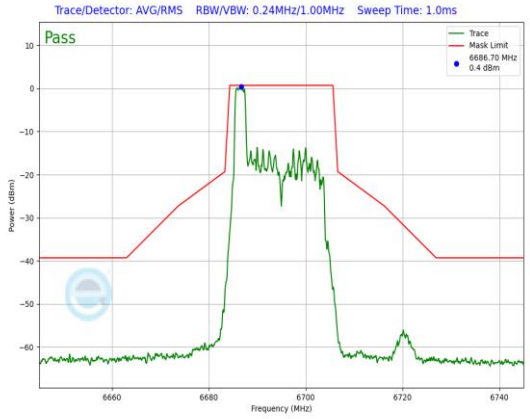
Plot 7-870. In-Band Emission Plot CDD Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



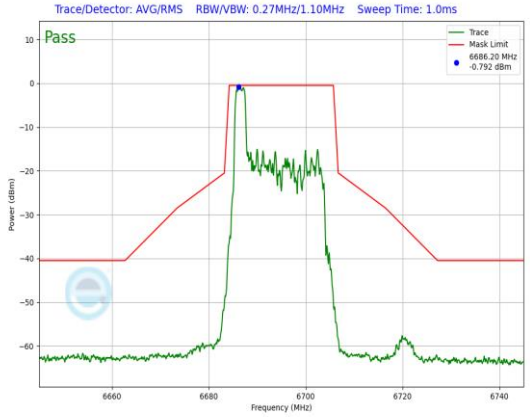
Plot 7-871. In-Band Emission Plot CDD Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



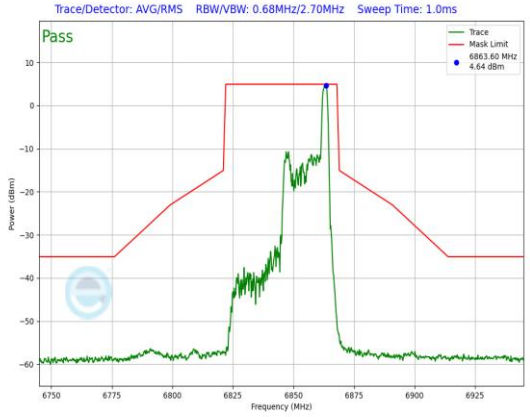
Plot 7-872. In-Band Emission Plot CDD Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



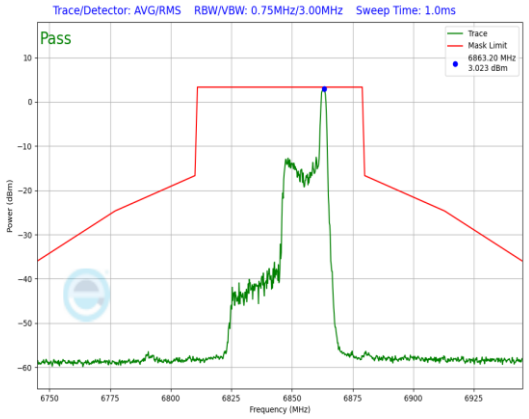
Plot 7-873. In-Band Emission Plot CDD Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



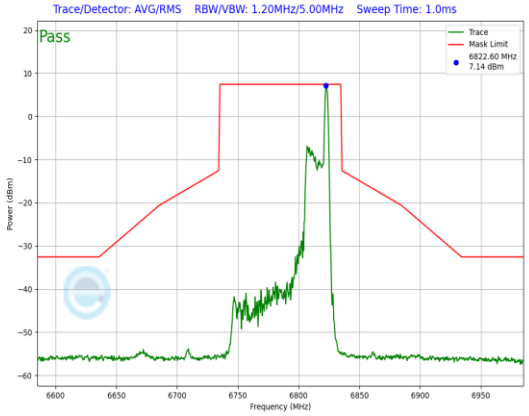
Plot 7-874. In-Band Emission Plot CDD Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



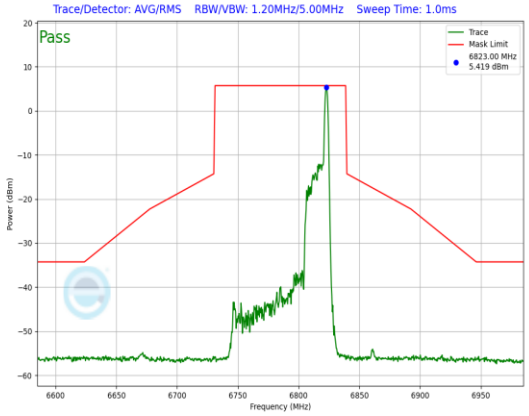
Plot 7-875. In-Band Emission Plot CDD Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 179)



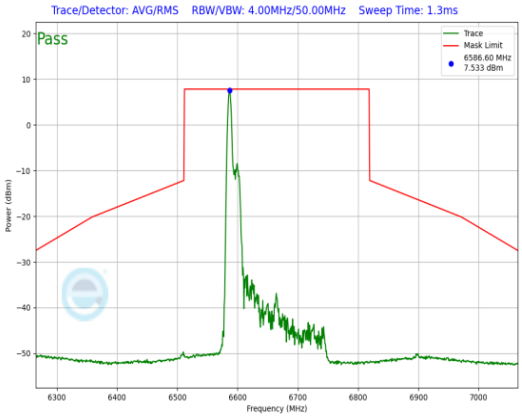
Plot 7-876. In-Band Emission Plot CDD Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 179)



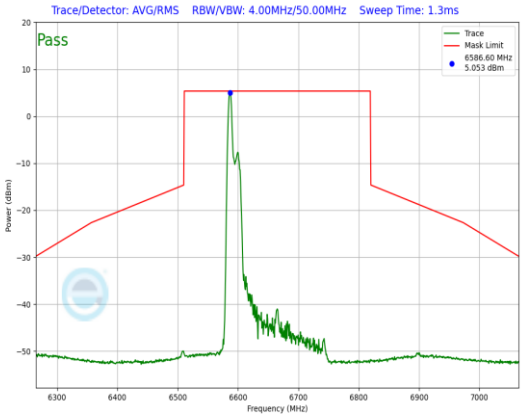
Plot 7-877. In-Band Emission Plot CDD Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 167)



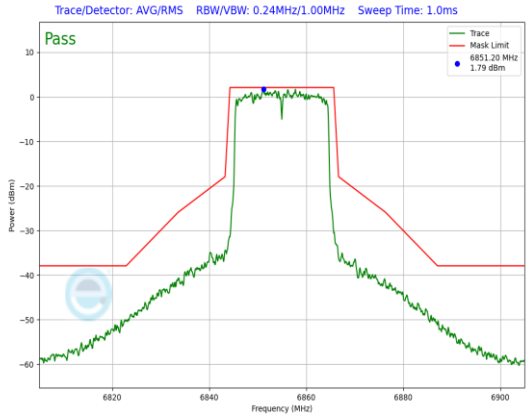
Plot 7-878. In-Band Emission Plot CDD Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 167)



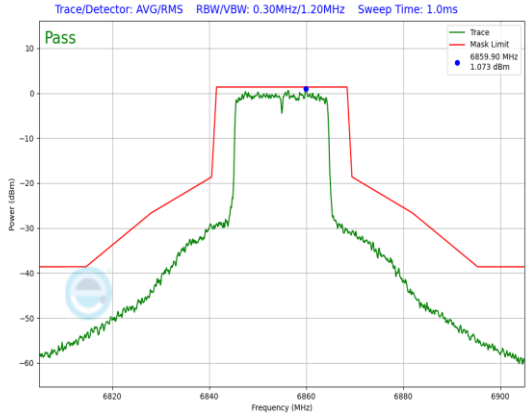
Plot 7-879. In-Band Emission Plot CDD Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



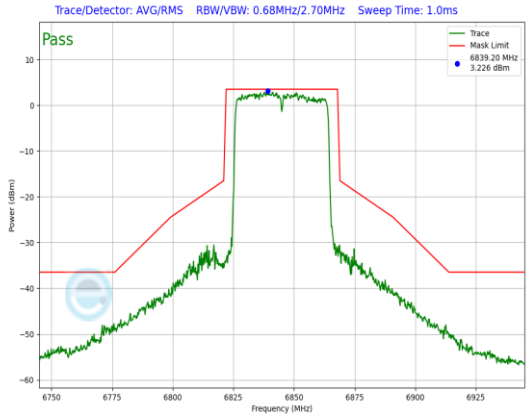
Plot 7-880. In-Band Emission Plot CDD Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



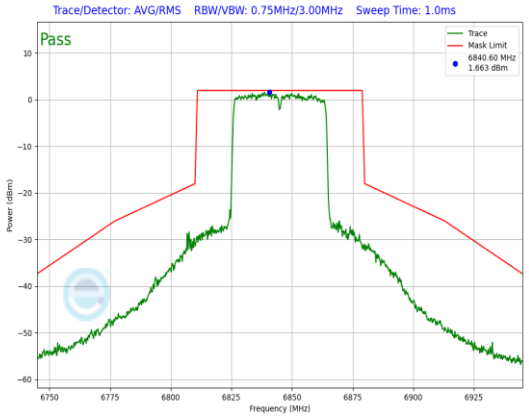
Plot 7-881. In-Band Emission Plot CDD Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 181)



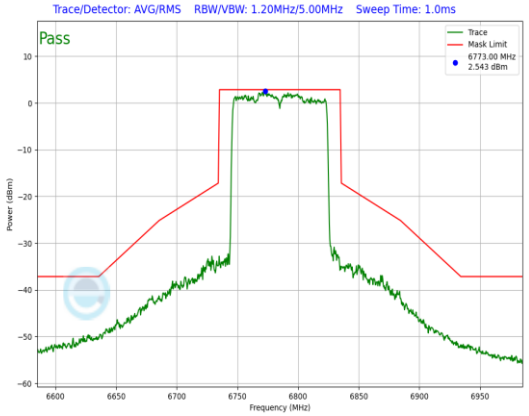
Plot 7-882. In-Band Emission Plot CDD Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 181)



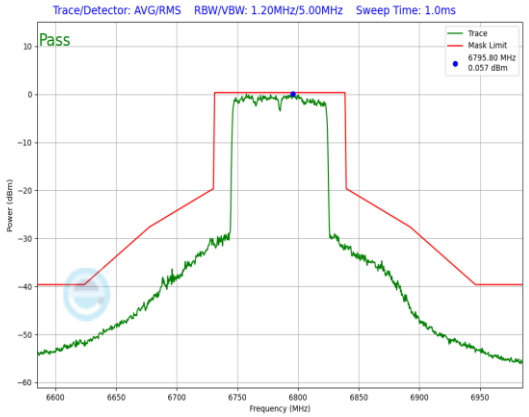
Plot 7-883. In-Band Emission Plot CDD Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



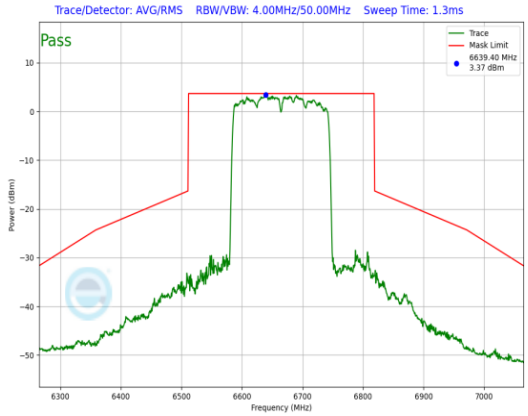
Plot 7-884. In-Band Emission Plot CDD Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



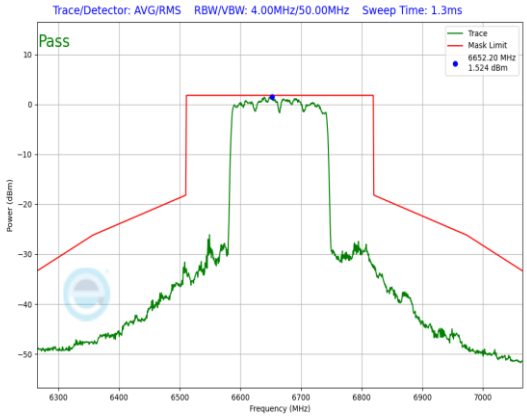
Plot 7-885. In-Band Emission Plot CDD Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 167)



Plot 7-886. In-Band Emission Plot CDD Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 167)



Plot 7-887. In-Band Emission Plot CDD Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)



Plot 7-888. In-Band Emission Plot CDD Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)

7.5.10 SDM Diversity In-Band Emission Measurements – LPI

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 5	5935	1	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	5935	1	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	5935	1	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6025	15 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6025		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6025	15 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6185	47 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6185		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6185	47 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6345	79 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6345		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6345	79 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
Band 6	6345	97	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6345	97	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6345	97	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6505	111 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6505		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6505	111 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass

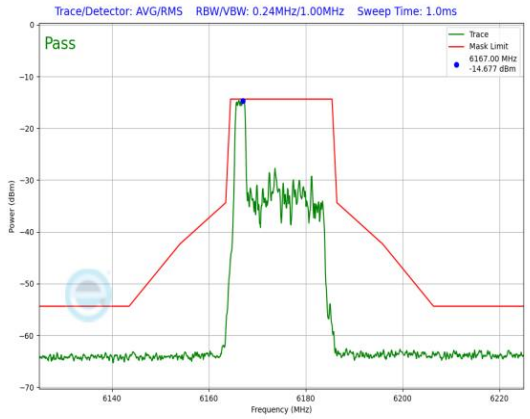
Table 7-194. In-Band Emission Measurements SDM Diversity (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 7	6535	117	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6535	117	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6535	117	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6875	185	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6875	185	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6875	185	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6865	183	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6865	183	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6865	183	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6665	143 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6665		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6665	143 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6825	175 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6825		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6825	175 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
Band 8	6895	189	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6895	189	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6895	189	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6995	209	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6995	209	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	6995	209	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	7095	229	ax (20MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	7095	229	ax (20MHz)	26	4	SDM	25/29.4 (MCS11)	Pass	Pass
	7095	229	ax (20MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6885	187	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6885	187	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	6885	187	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	7005	211	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	7005	211	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	7005	211	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	7085	227	ax (40MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	7085	227	ax (40MHz)	26	8	SDM	25/29.4 (MCS11)	Pass	Pass
	7085	227	ax (40MHz)	26	17	SDM	25/29.4 (MCS11)	Pass	Pass
	6945	199	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6945	199	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	6945	199	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	7025	215	ax (80MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	7025	215	ax (80MHz)	26	18	SDM	25/29.4 (MCS11)	Pass	Pass
	7025	215	ax (80MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6985	207 (L)	ax (160MHz)	26	0	SDM	25/29.4 (MCS11)	Pass	Pass
	6985		ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass
	6985	207 (U)	ax (160MHz)	26	36	SDM	25/29.4 (MCS11)	Pass	Pass

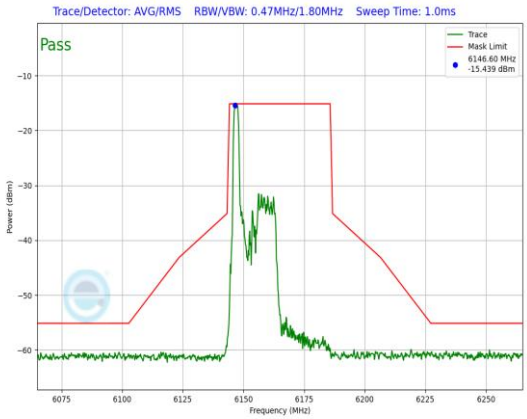
Table 7-195. In-Band Emission Measurements SDM Diversity (RU26)

	Frequency [MHz]	Channel	802.11 MODE	RU Size	RU Index	Mode	Data Rate [Mbps]	Antenna 5T In-Band Emission	Antenna 1b In-Band Emission
Band 5	5935	1	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6175	45	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6415	93	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	5965	3	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6165	43	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6165	91	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	5985	7	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6145	39	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6385	87	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6025	15	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
	6185	47	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
	6345	79	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
Band 6	6345	97	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6475	105	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6515	113	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6445	99	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6485	107	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6525	115	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6465	103	ax (80Mhz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6505	111	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
Band 7	6535	117	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6695	149	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6875	185	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6565	123	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6725	155	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6845	179	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6545	119	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6705	151	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6865	183	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6665	143	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
	6825	175	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass
Band 8	6895	189	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6995	209	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	7115	229	ax (20MHz)	242	61	SDM	243.8/286.8 (MCS11)	Pass	Pass
	6885	187	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	7005	211	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	7085	227	ax (40MHz)	484	65	SDM	47.5/573.5 (MCS11)	Pass	Pass
	6945	199	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	7025	215	ax (80MHz)	996	67	SDM	1020.8/1201 (MCS11)	Pass	Pass
	6985	207	ax (160MHz)	996x2	68	SDM	2041.6/2402 (MCS11)	Pass	Pass

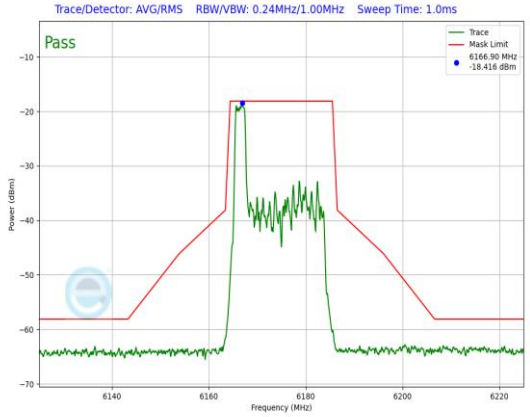
Table 7-196. In-Band Emission Measurements SDM Diversity (Fully-loaded RU)



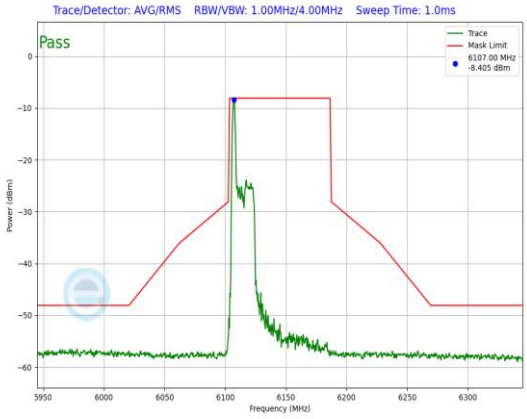
Plot 7-889. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 45)



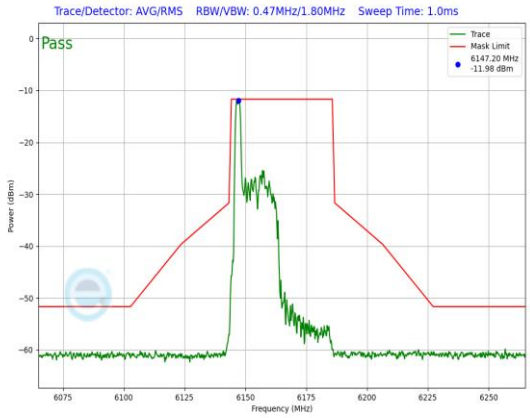
Plot 7-892. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 43)



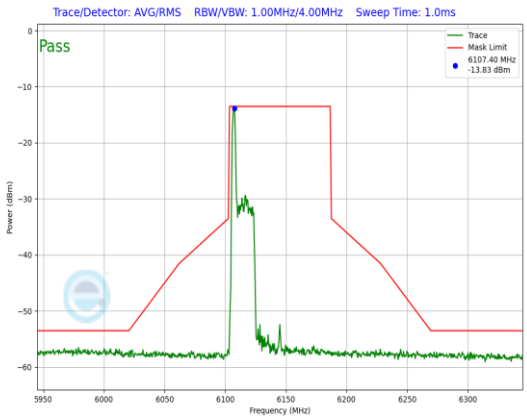
Plot 7-890. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 5) – Ch. 45)



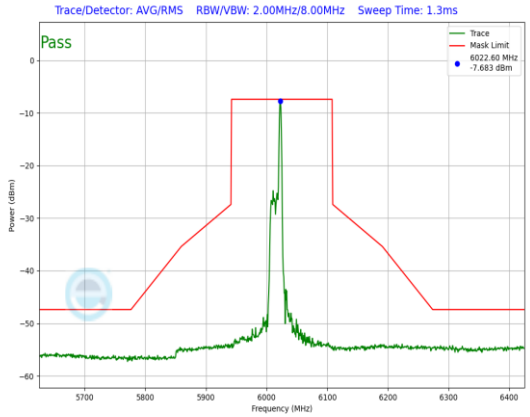
Plot 7-893. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



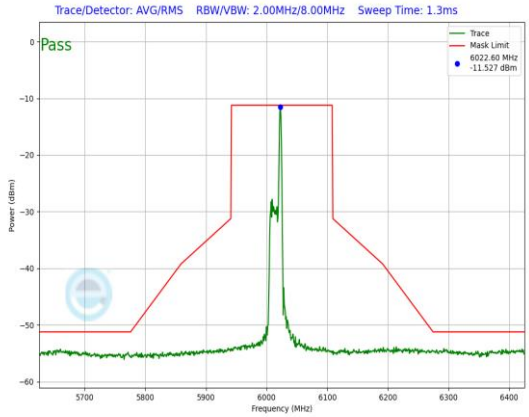
Plot 7-891. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 5) – Ch. 43)



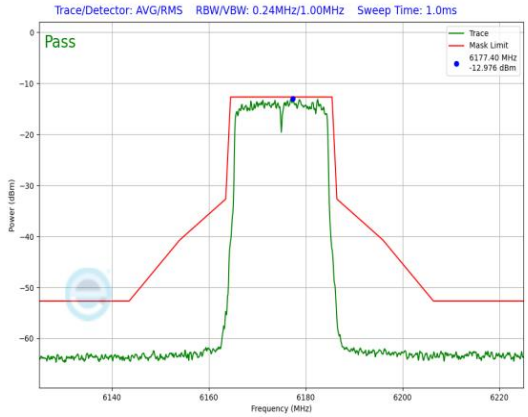
Plot 7-894. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 5) – Ch. 39)



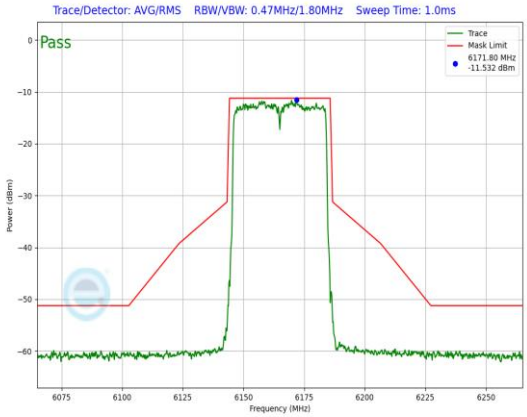
Plot 7-895. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 15)



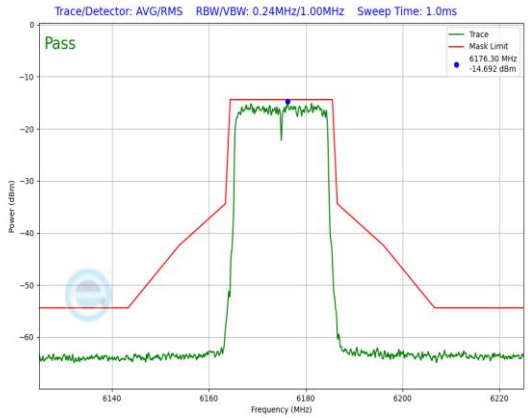
Plot 7-896. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 5) – Ch. 15)



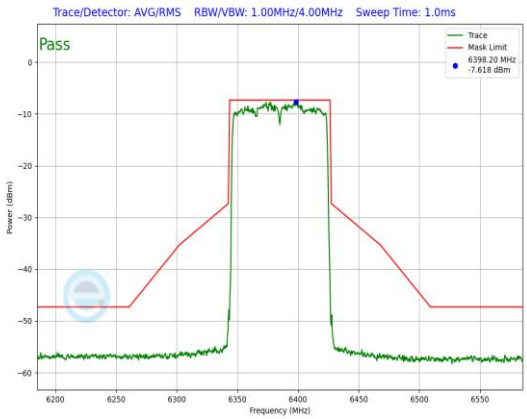
Plot 7-897. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



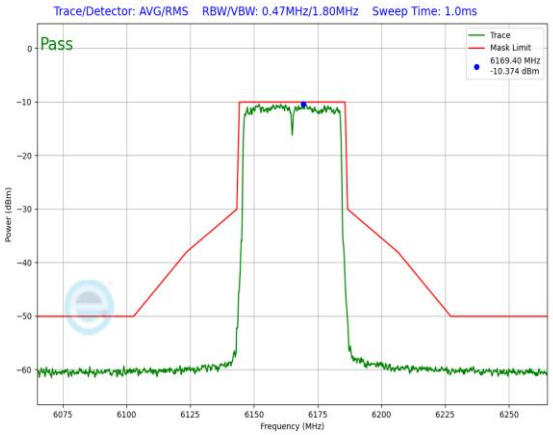
Plot 7-900. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 43)



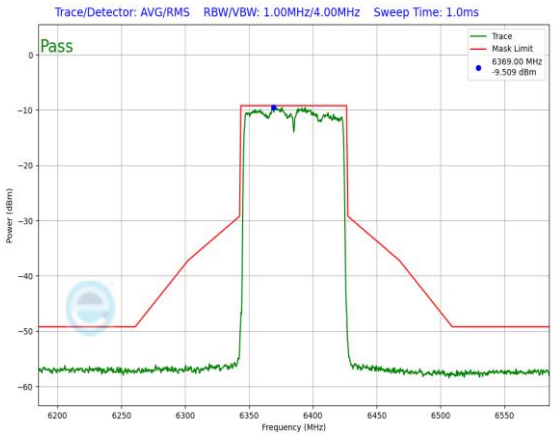
Plot 7-898. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 5) – Ch. 45)



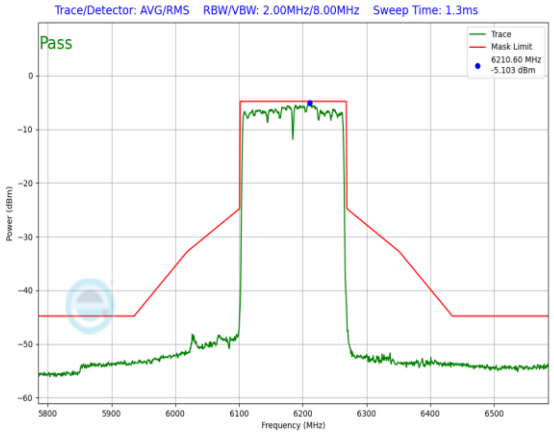
Plot 7-901. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



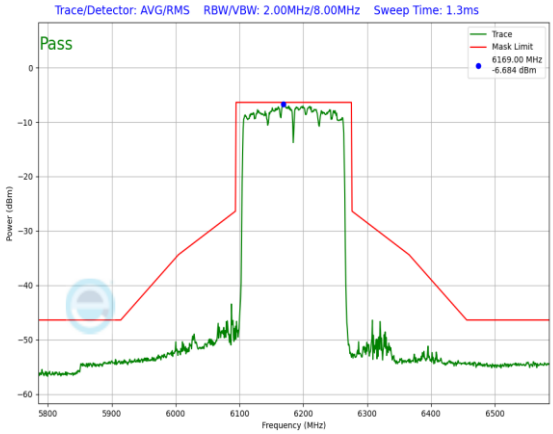
Plot 7-899. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 5) – Ch. 43)



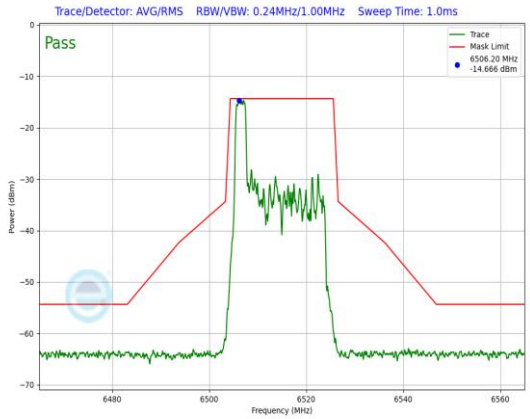
Plot 7-902. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 5) – Ch. 87)



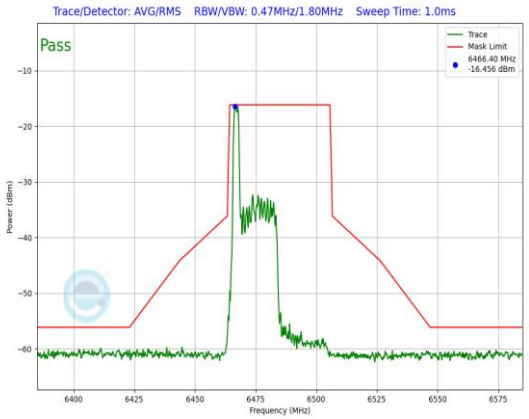
Plot 7-903. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



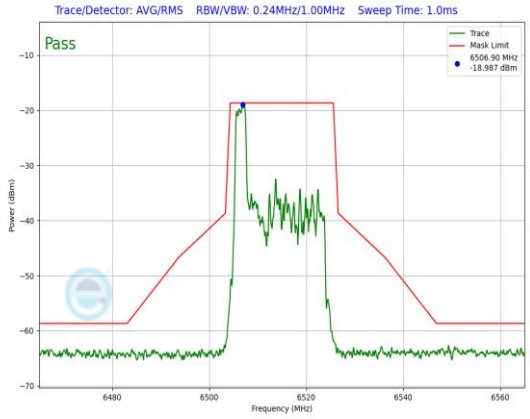
Plot 7-904. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 5) – Ch. 47)



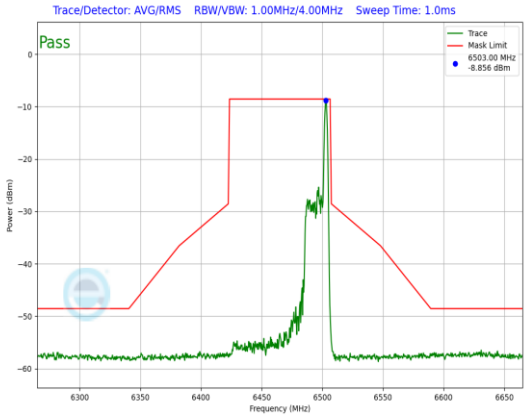
Plot 7-905. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 113)



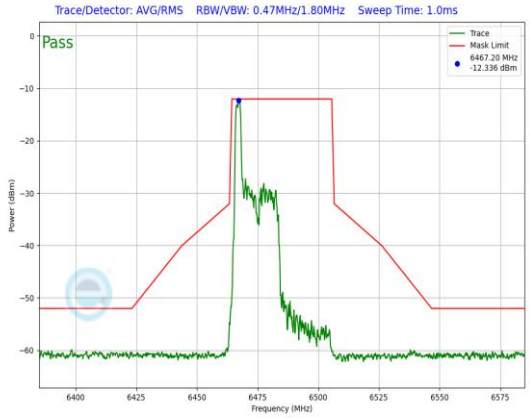
Plot 7-908. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 107)



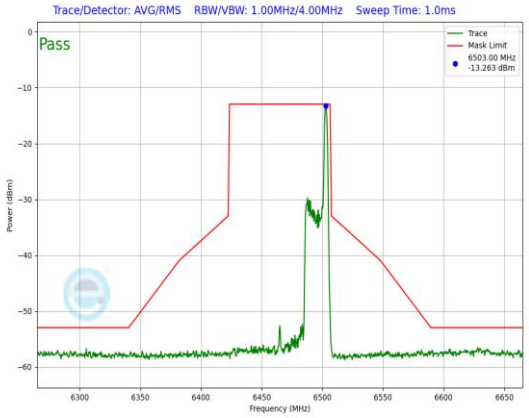
Plot 7-906. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 6) – Ch. 113)



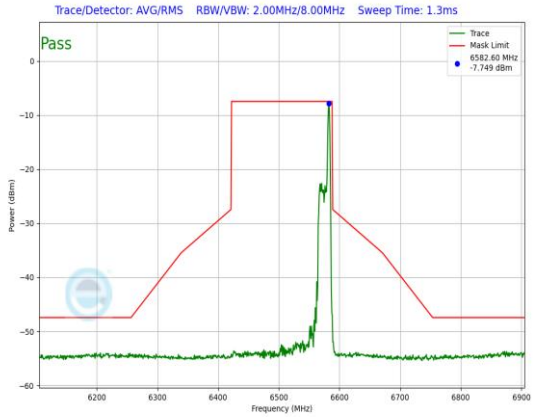
Plot 7-909. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



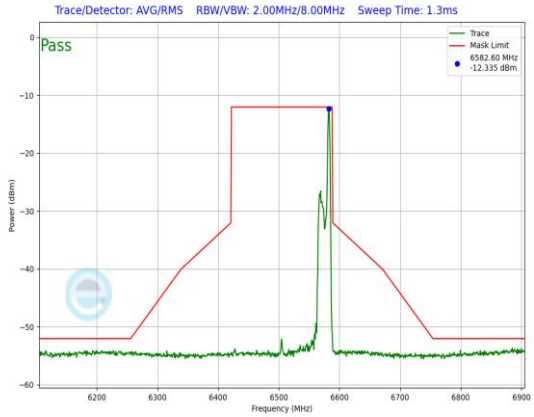
Plot 7-907. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 6) – Ch. 107)



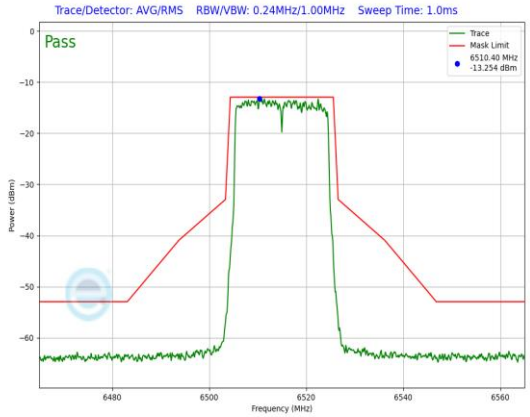
Plot 7-910. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 6) – Ch. 103)



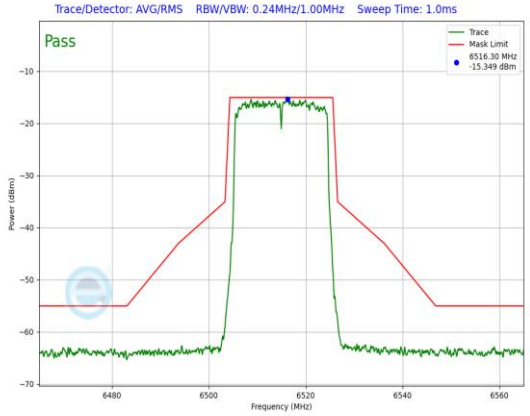
Plot 7-911. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)



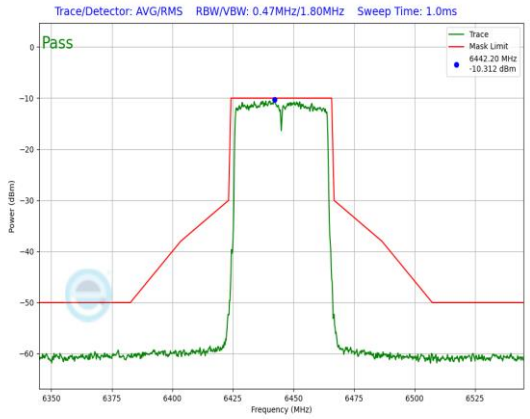
Plot 7-912. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 6) – Ch. 111)



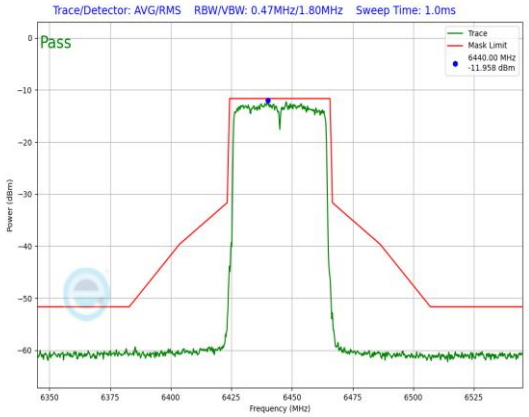
Plot 7-913. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 113)



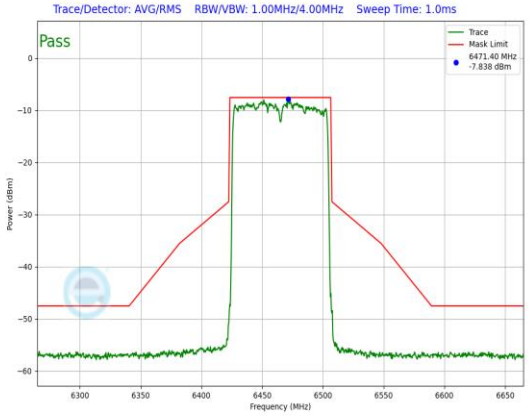
Plot 7-914. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 6) – Ch. 113)



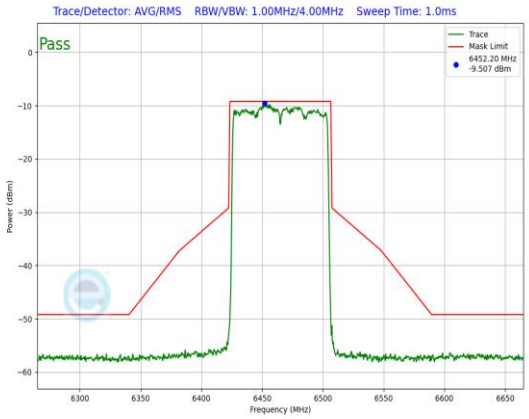
Plot 7-915. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



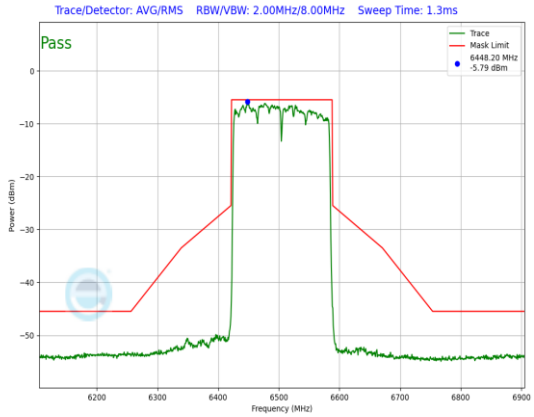
Plot 7-916. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 6) – Ch. 99)



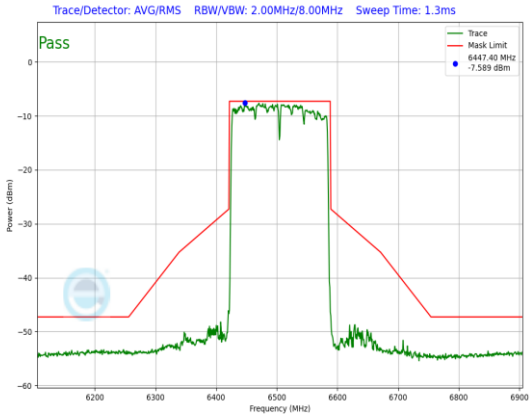
Plot 7-917. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



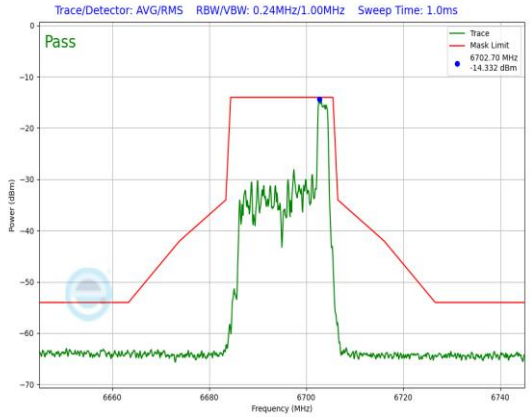
Plot 7-918. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 6) – Ch. 103)



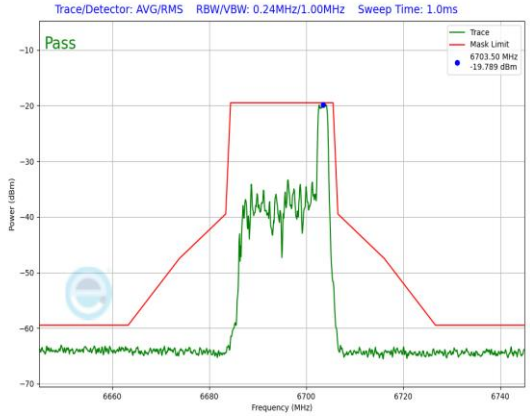
Plot 7-919. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



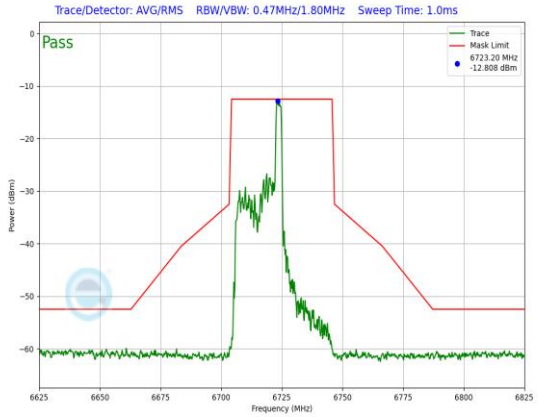
Plot 7-920. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 6) – Ch. 111)



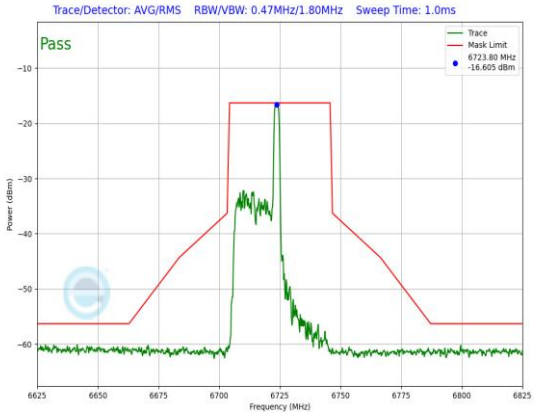
Plot 7-921. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



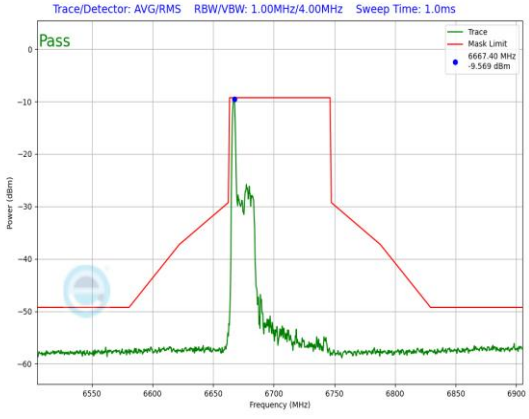
Plot 7-922. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 7) – Ch. 149)



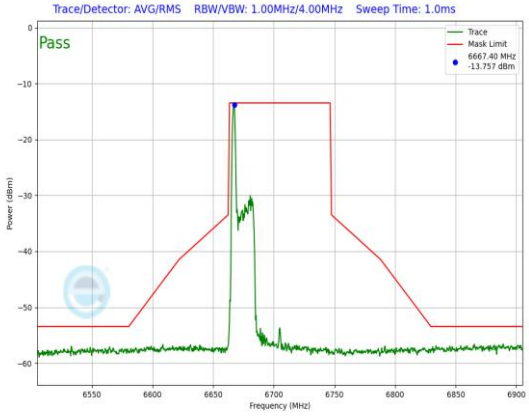
Plot 7-923. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 155)



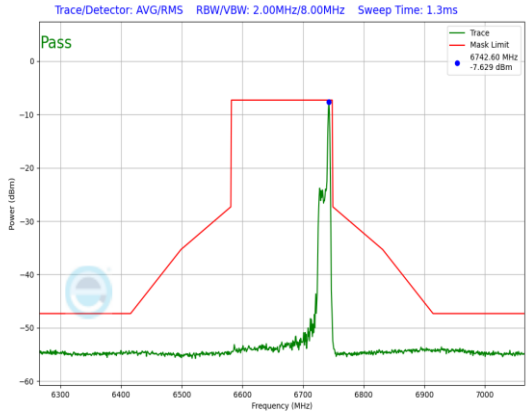
Plot 7-924. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 7) – Ch. 155)



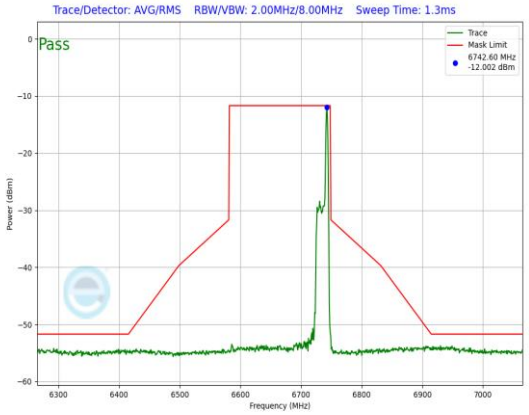
Plot 7-925. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 151)



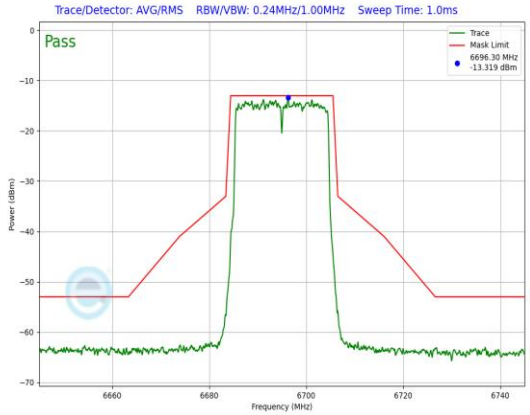
Plot 7-926. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 7) – Ch. 151)



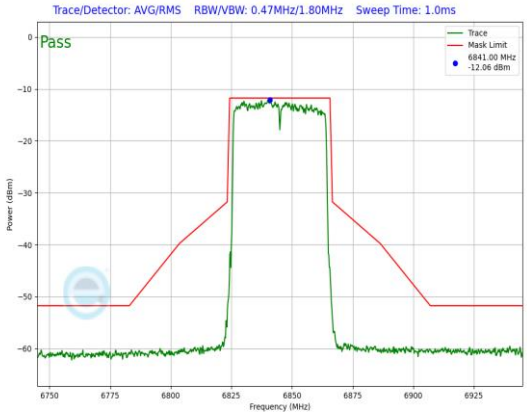
Plot 7-927. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



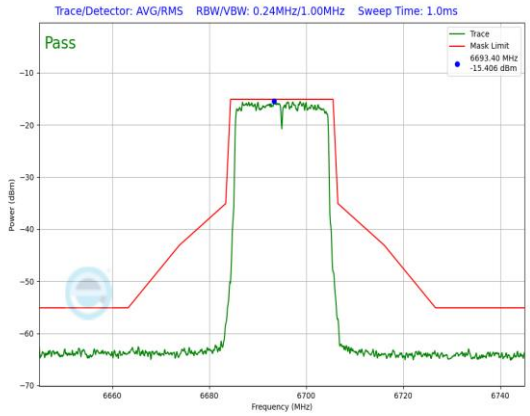
Plot 7-928. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 7) – Ch. 143)



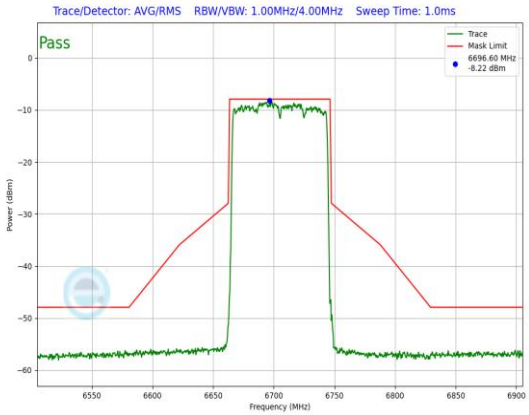
Plot 7-929. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



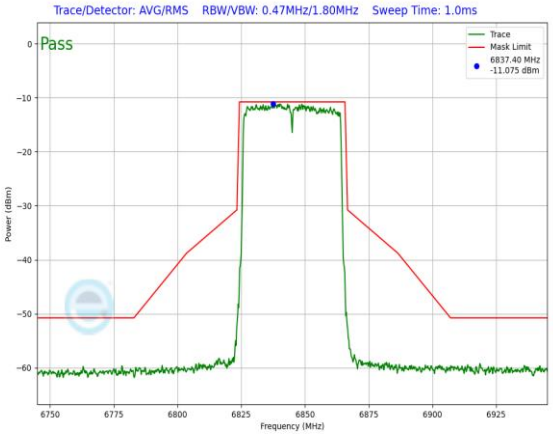
Plot 7-932. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



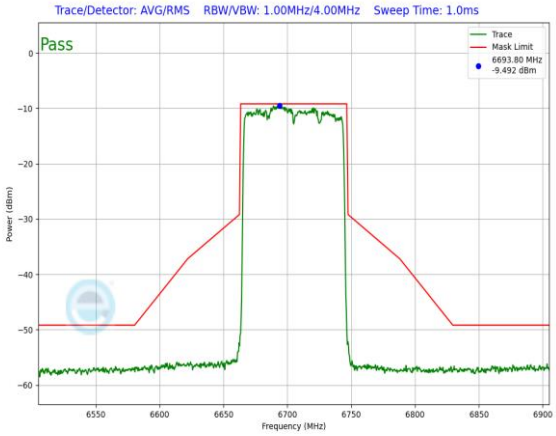
Plot 7-930. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 7) – Ch. 149)



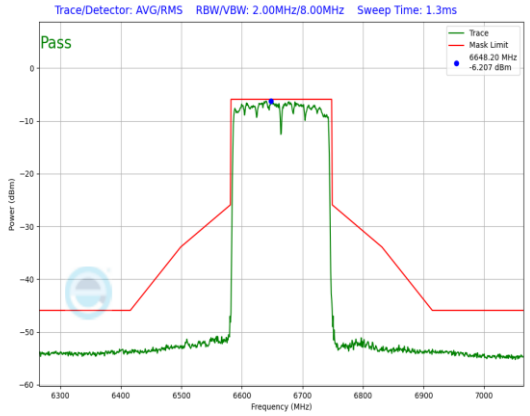
Plot 7-933. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 151)



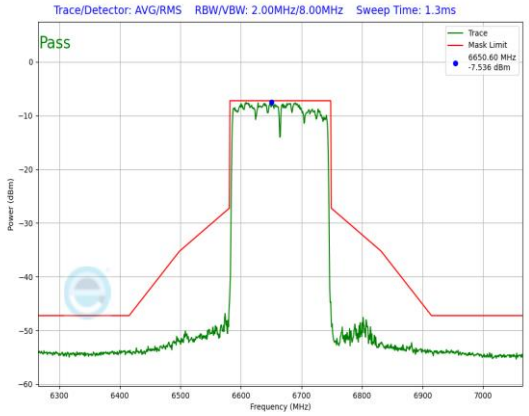
Plot 7-931. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 7) – Ch. 179)



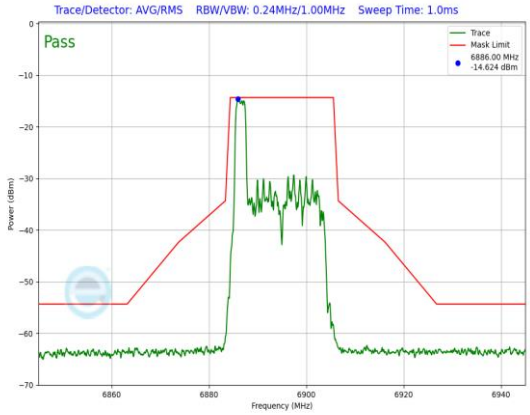
Plot 7-934. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 7) – Ch. 151)



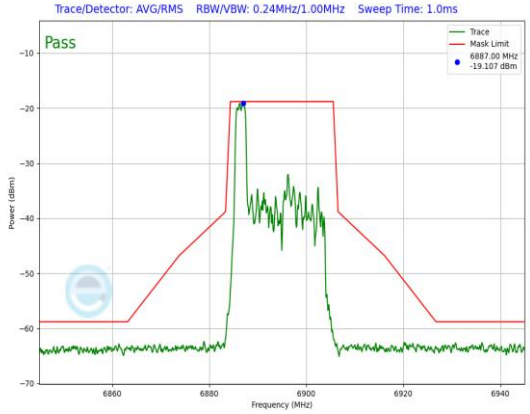
Plot 7-935. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)



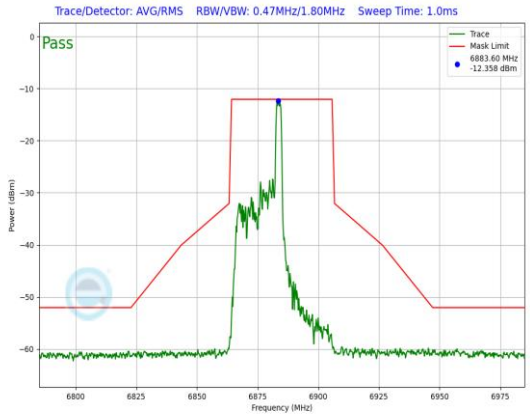
Plot 7-936. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 7) – Ch. 143)



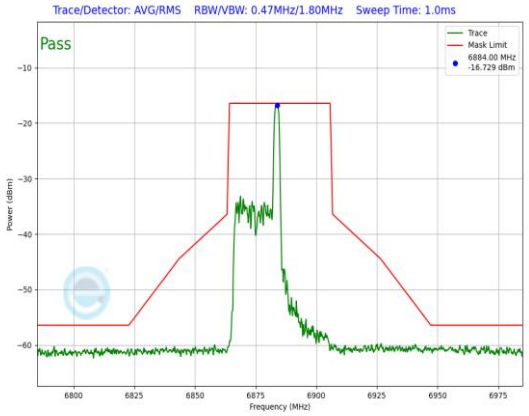
Plot 7-937. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU26 (UNII Band 8) – Ch. 189)



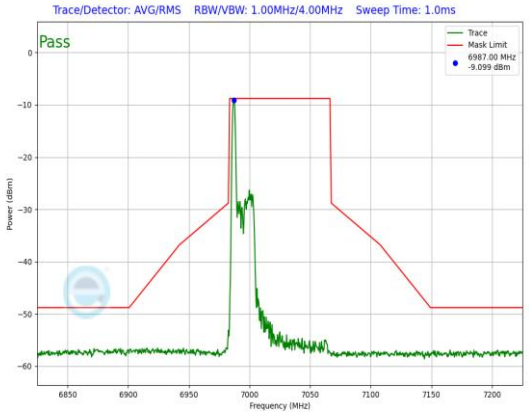
Plot 7-938. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU26 (UNII Band 8) – Ch. 189)



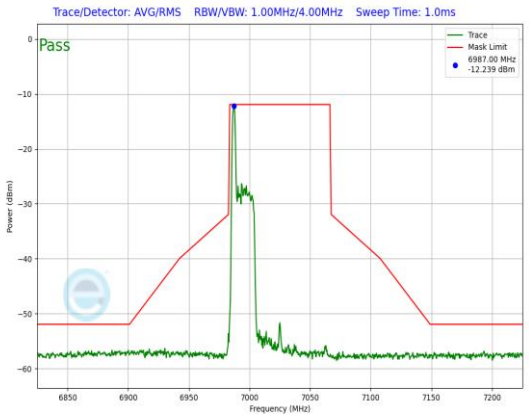
Plot 7-939. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU26 (UNII Band 8) – Ch. 187)



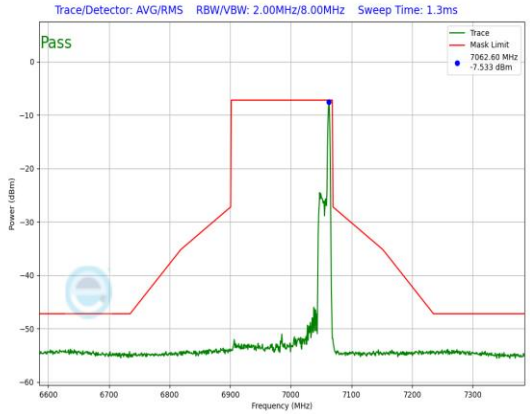
Plot 7-940. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU26 (UNII Band 8) – Ch. 187)



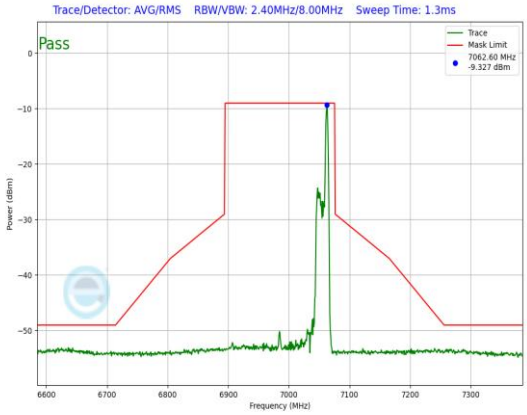
Plot 7-941. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU26 (UNII Band 8) – Ch. 215)



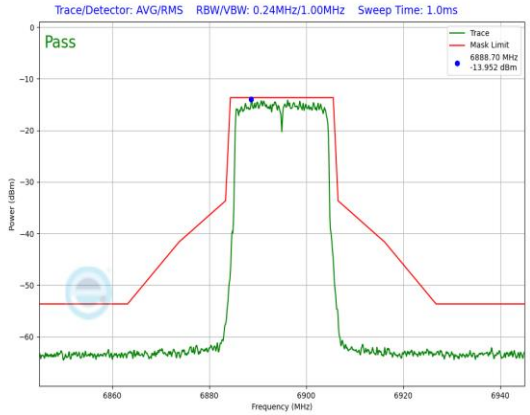
Plot 7-942. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU26 (UNII Band 8) – Ch. 215)



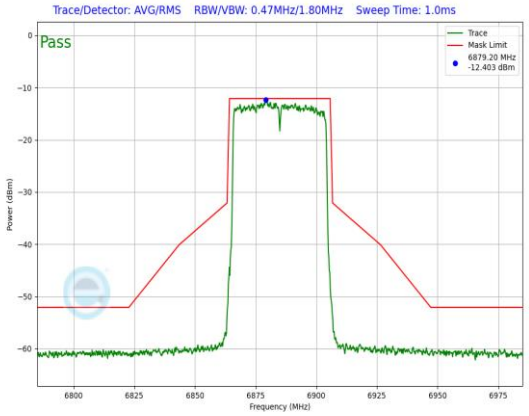
Plot 7-943. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU26 (UNII Band 8) – Ch. 207)



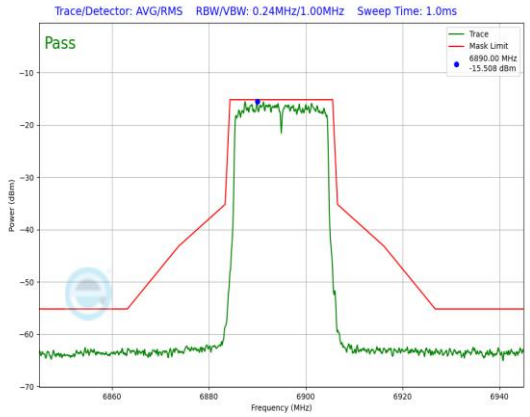
Plot 7-944. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU26 (UNII Band 8) – Ch. 207)



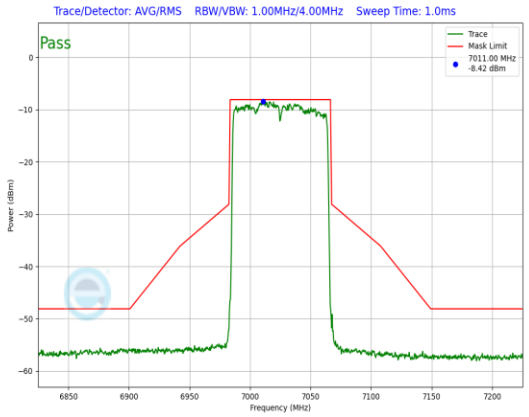
Plot 7-945. In-Band Emission Plot SDM Diversity Antenna 5T (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 189)



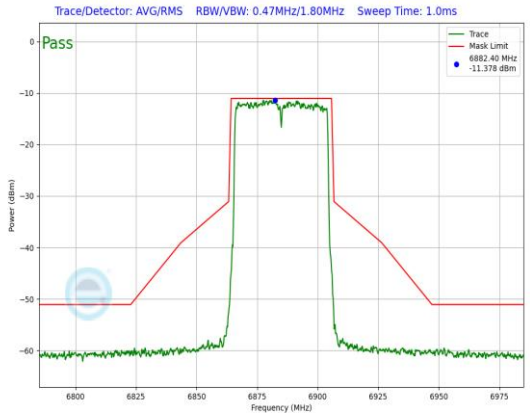
Plot 7-948. In-Band Emission Plot SDM Diversity Antenna 1b (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 187)



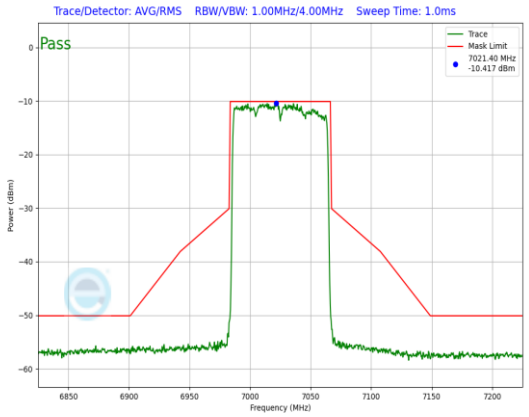
Plot 7-946. In-Band Emission Plot SDM Diversity Antenna 1b (20MHz 802.11ax RU242 (UNII Band 8) – Ch. 189)



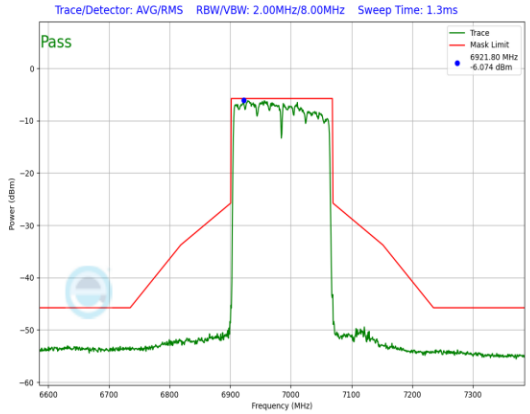
Plot 7-949. In-Band Emission Plot SDM Diversity Antenna 5T (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



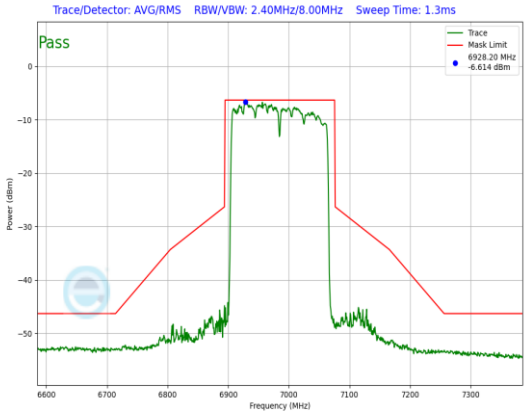
Plot 7-947. In-Band Emission Plot SDM Diversity Antenna 5T (40MHz 802.11ax RU484 (UNII Band 8) – Ch. 187)



Plot 7-950. In-Band Emission Plot SDM Diversity Antenna 1b (80MHz 802.11ax RU996 (UNII Band 8) – Ch. 215)



Plot 7-951. In-Band Emission Plot SDM Diversity Antenna 5T (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)



Plot 7-952. In-Band Emission Plot SDM Diversity Antenna 1b (160MHz 802.11ax RU996x2 (UNII Band 8) – Ch. 207)

7.6 Contention Based Protocol

§15.407(d)(6), RSS-248 [4.7]

Test Overview and Limit

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain.

To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel.

Test Procedure Used

KDB 987594 D02 v03 – Section I

Test Settings

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.

Test Setup

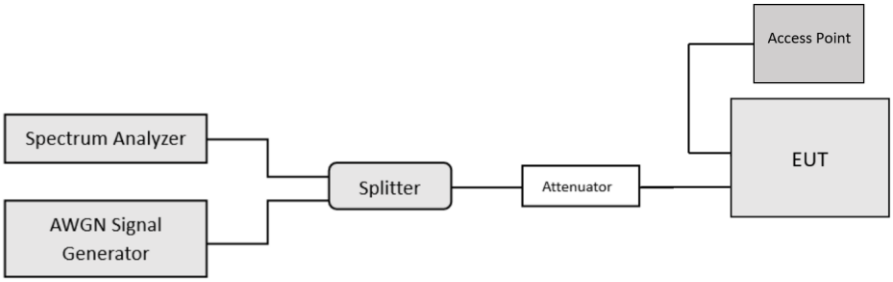


Figure 2. Contention-based protocol test setup, conducted method

Test Notes

1. The EUT does not supports channel puncturing.
2. Per guidance from KDB 987594 D02 v03, contention-based protocol was tested using an AWGN signal with a bandwidth of 10MHz. The amplitude of the signal was increased until detected by the EUT, signaled by the ceasing of transmission, marker indicates the point at which the AWGN signal is introduced.
3. Per Guidance from KDB 987594 D04 v03, contention-based protocol was tested with receiver with the lowest antenna gain.
4. 15 trials were ran in order to assure that at least 90% of certainty was met.

Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

Equation 7-1. Incumbent Detection Level Calculation

Band	Channel	Channel Frquency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	Injected (AWGN) [dBm]	Antenna Gain [dBi]	Adjusted Power Level [dBm]	Detection Limit [dBm]	Margin [dB]
UNII Band 5	53	6215	20	6215	-71.61	-3.30	-68.31	-62.0	-6.31
	47	6185	160	6110	-68.05	-3.30	-64.75	-62.0	-2.75
				6185	-70.27	-3.30	-66.97	-62.0	-4.97
				6260	-66.11	-3.30	-62.81	-62.0	-0.81
UNII Band 6	101	6455	20	6455	-72.77	-3.30	-69.47	-62.0	-7.47
	111	6505	160	6430	-72.13	-3.30	-68.83	-62.0	-6.83
				6505	-70.12	-3.30	-66.82	-62.0	-4.82
				6580	-70.08	-3.30	-66.78	-62.0	-4.78
UNII Band 7	149	6695	20	6695	-71.68	-3.30	-68.38	-62.0	-6.38
	143	6665	160	6590	-70.99	-3.30	-67.69	-62.0	-5.69
				6665	-68.01	-3.30	-64.71	-62.0	-2.71
				6740	-75.10	-3.30	-71.80	-62.0	-9.80
UNII Band 8	197	6935	20	6935	-74.73	-3.30	-71.43	-62.0	-9.43
	207	6985	160	6910	-70.92	-3.30	-67.62	-62.0	-5.62
				6985	-67.56	-3.30	-64.26	-62.0	-2.26
				7060	-67.62	-3.30	-64.32	-62.0	-2.32

Table 7-197. Contention Based Protocol – Incumbent Detection Results

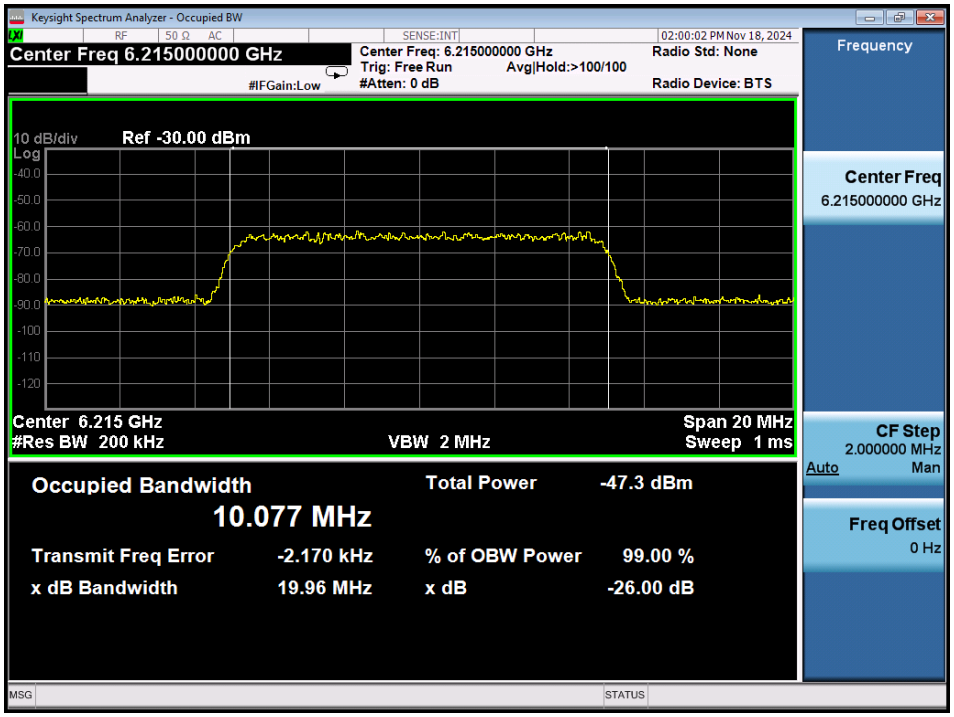
Band	Channel	Channel Frquency [MHz]	Channel BW [MHz]	Incumbent Frequency [MHz]	EUT Transmission Status		
					Adjusted AWGN Power (dBm)		
					Normal	Minimal	Ceased
UNII Band 5	53	6215	20	6215	-79.49	-69.56	-68.31
	47	6185	160	6110	-75.93	-66.00	-64.75
				6185	-78.14	-68.22	-66.97
				6260	-73.99	-64.06	-62.81
UNII Band 6	101	6455	20	6455	-80.64	-70.72	-69.47
	111	6505	160	6430	-80.01	-70.08	-68.83
				6505	-78.00	-68.07	-66.82
				6580	-77.96	-68.03	-66.78
UNII Band 7	149	6695	20	6695	-79.36	-69.60	-68.38
	143	6665	160	6750	-78.67	-68.91	-67.69
				6825	-75.69	-65.93	-64.71
				6900	-82.78	-73.02	-71.80
UNII Band 8	197	6935	20	6935	-82.41	-72.65	-71.43
	207	6985	160	6910	-78.60	-68.84	-67.62
				6985	-75.24	-65.48	-64.26
				7060	-75.30	-65.54	-64.32

Table 7-198. Contention Based Protocol – Detection Results – All Tx Cases

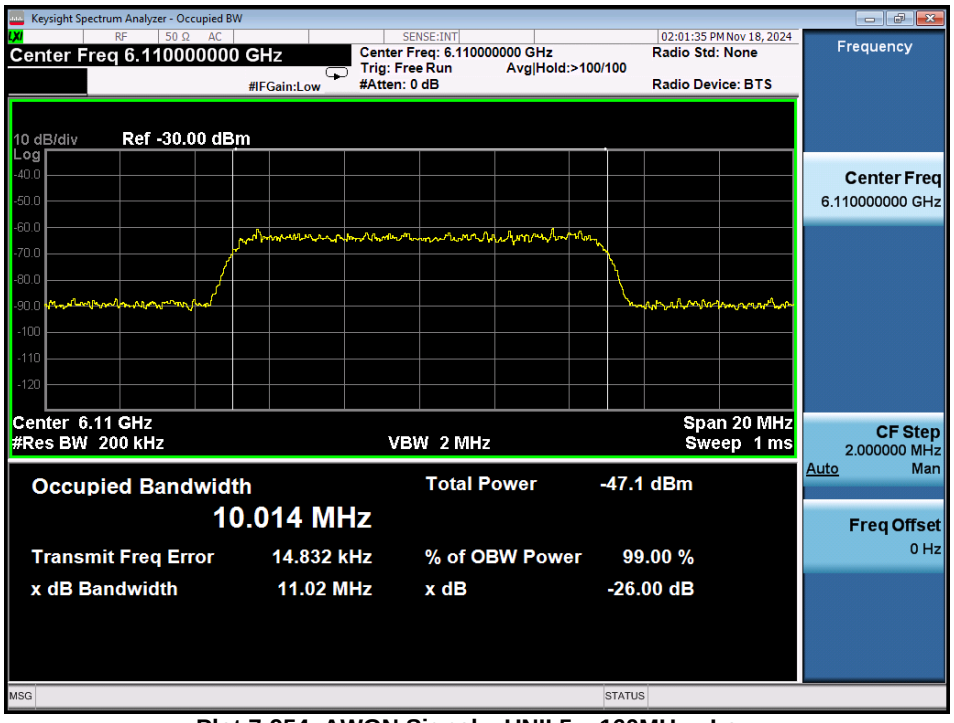
CBP Detection (1 = Detection, Blank = No Detection)																					
Band	Channel	Channel Frquency [MHz]	Channel BW [MHz]	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Detection Rate [%]	Limit [%]	Pass/Fail
UNII Band 5	53	6215	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	47	6185	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 6	101	6455	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	111	6505	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 7	149	6695	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	143	6665	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
UNII Band 8	197	6935	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
	207	6985	160	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	100.0	90	Pass

Table 7-199. Contention Based Protocol – Incumbent Detection Trial Results

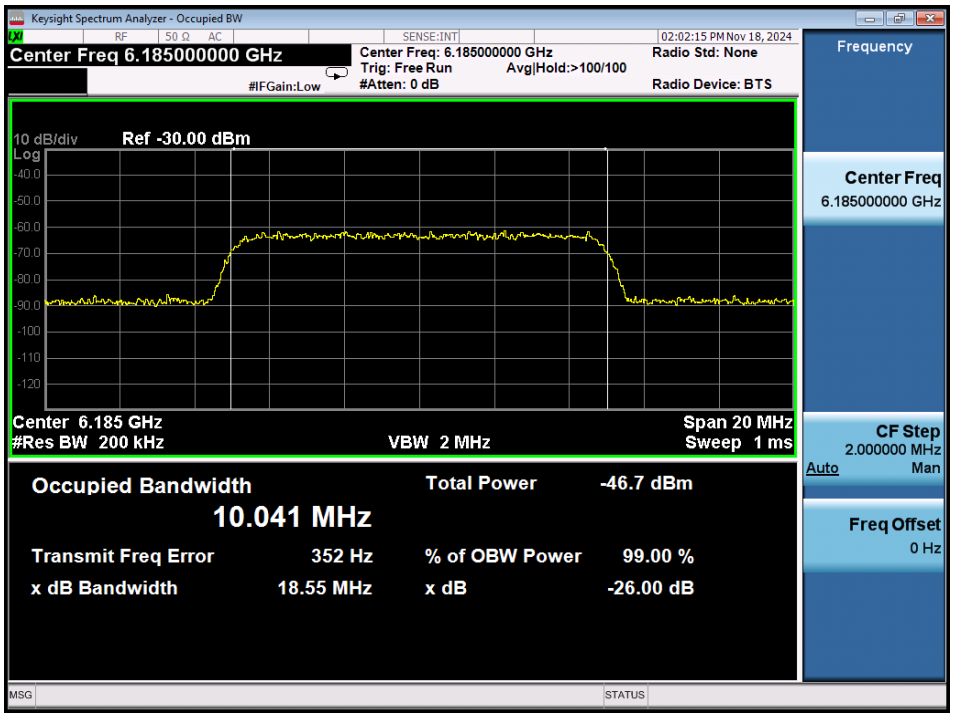
AWGN Plots



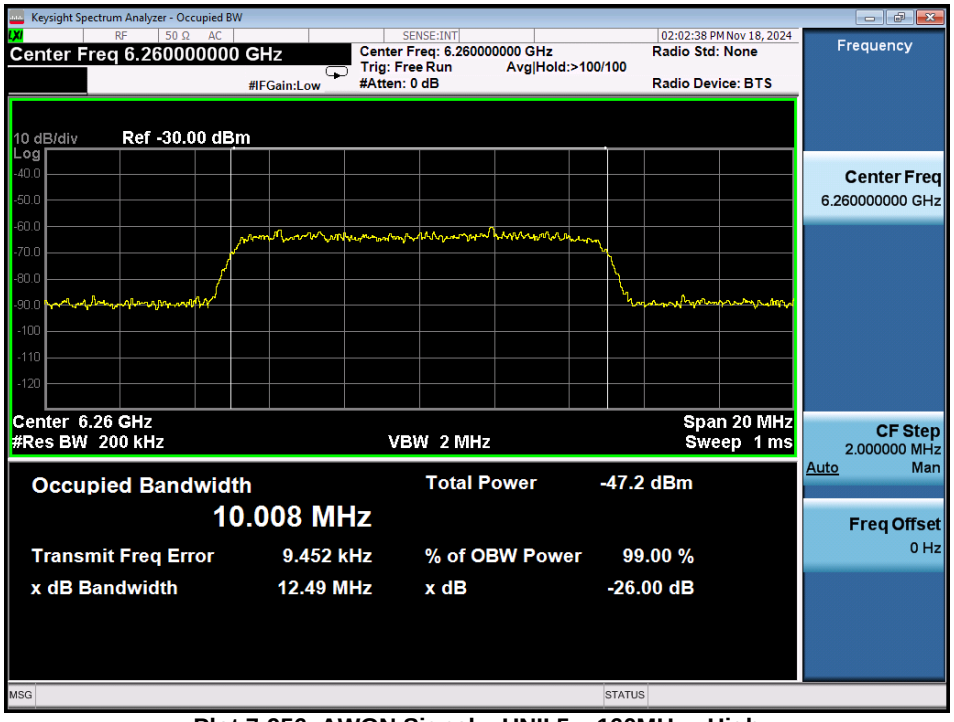
Plot 7-953. AWGN Signal – UNII 5 – 20MHz



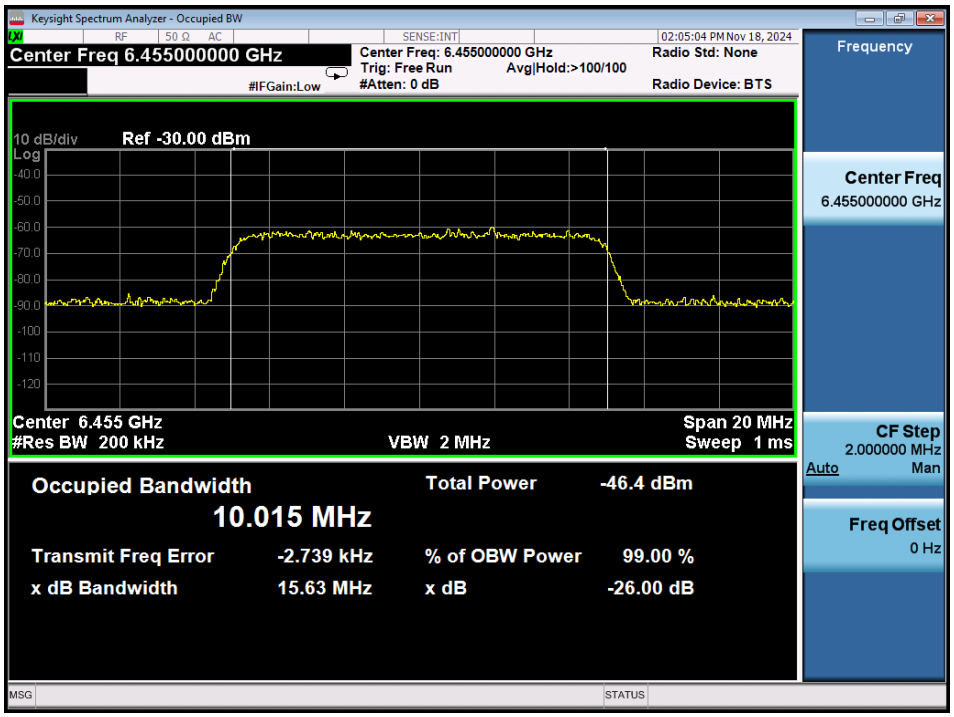
Plot 7-954. AWGN Signal – UNII 5 – 160MHz - Low



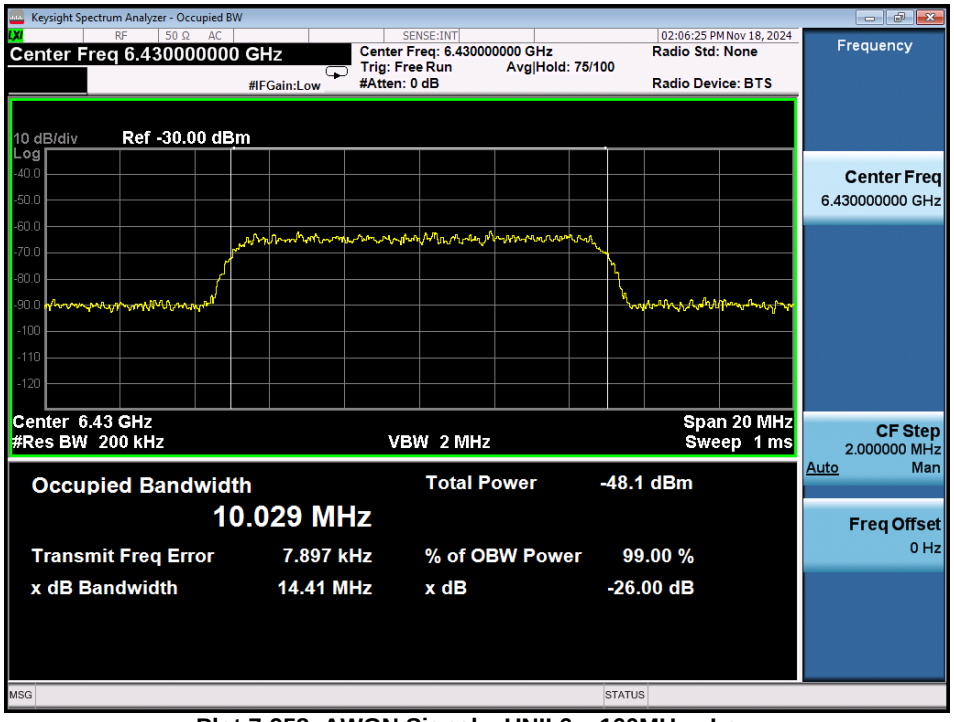
Plot 7-955. AWGN Signal – UNII 5 – 160MHz – Mid



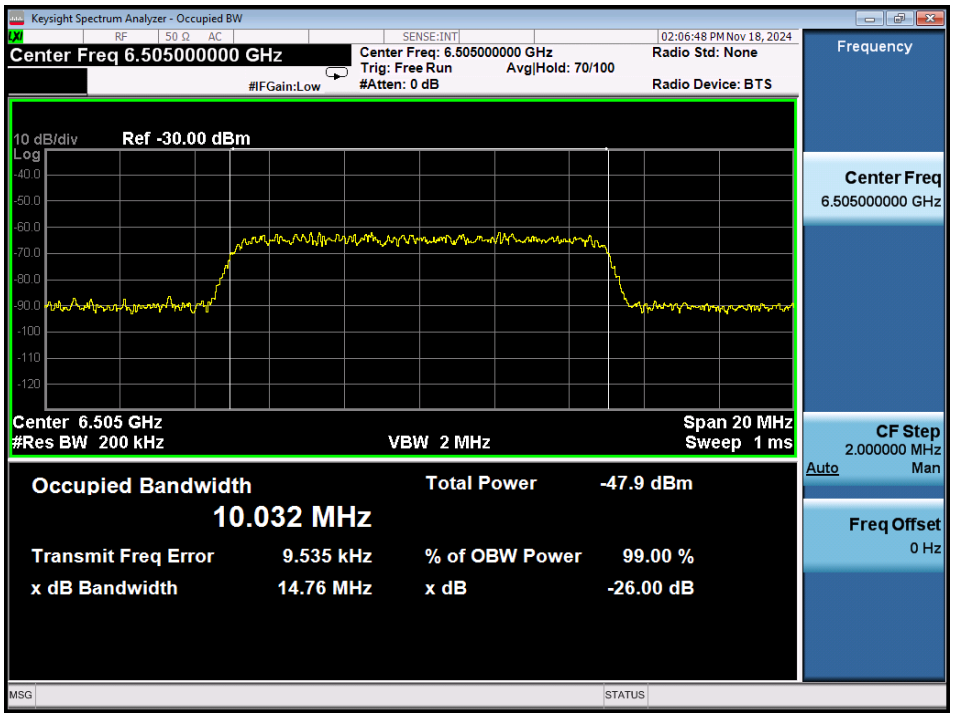
Plot 7-956. AWGN Signal – UNII 5 – 160MHz - High



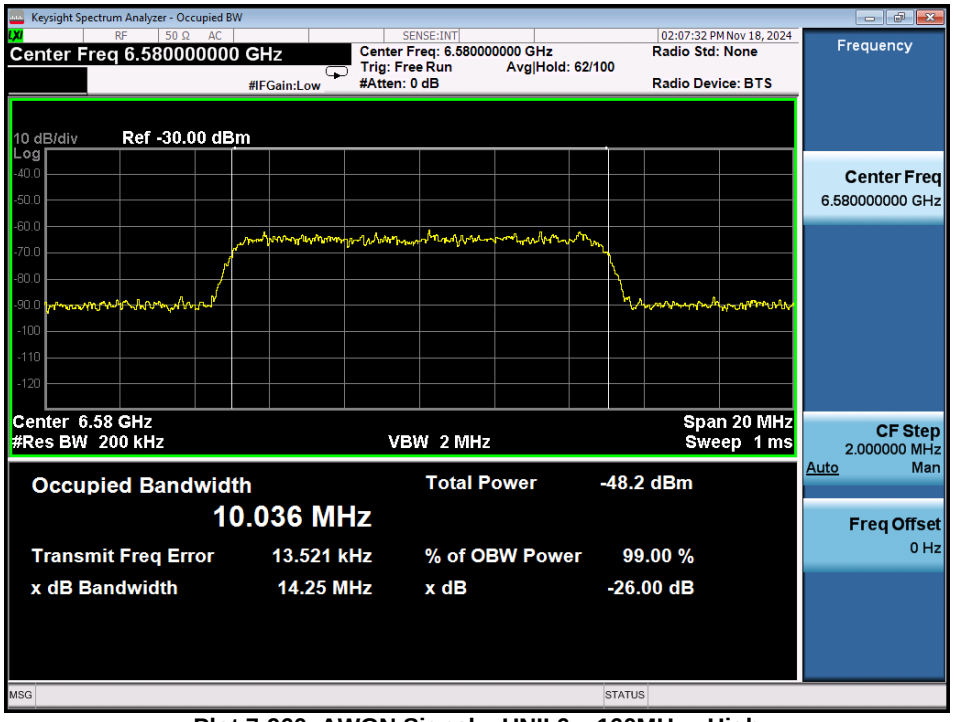
Plot 7-957. AWGN Signal – UNII 6 – 20MHz



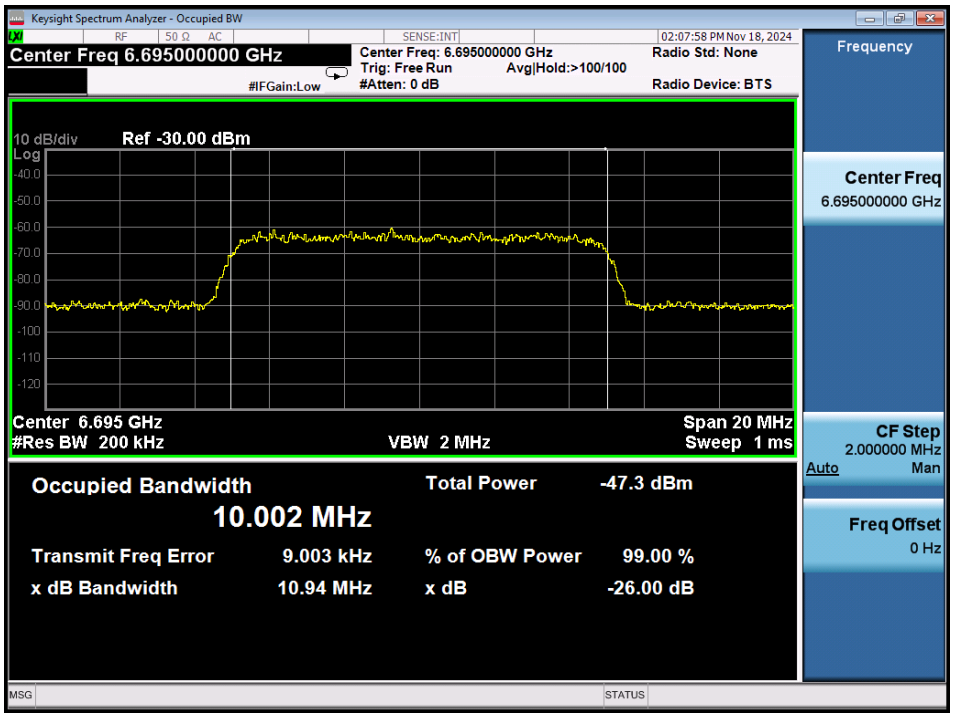
Plot 7-958. AWGN Signal – UNII 6 – 160MHz - Low



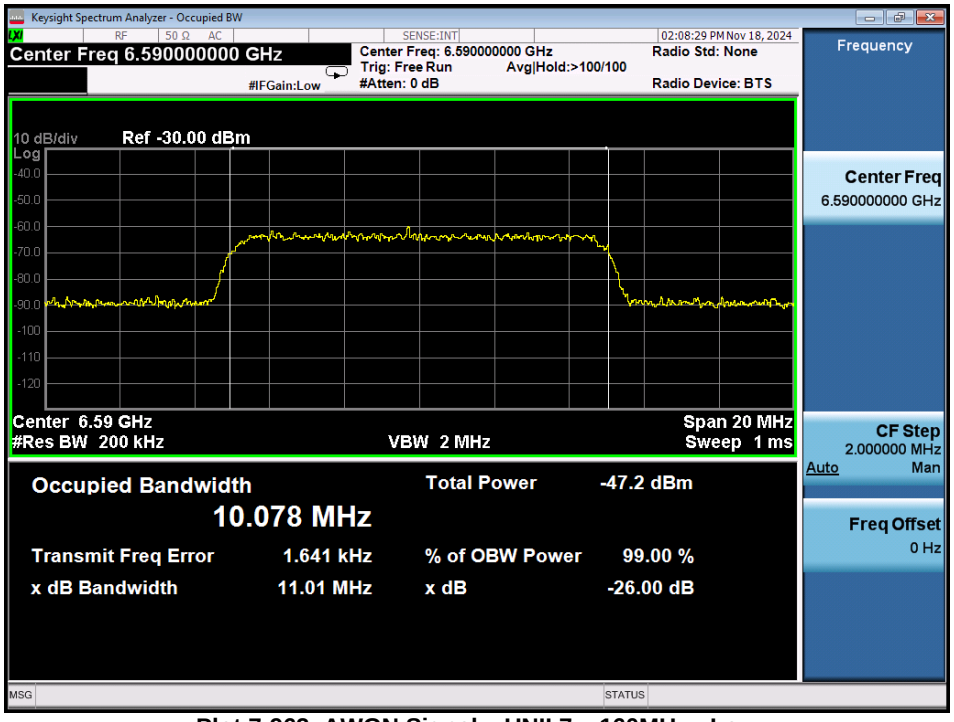
Plot 7-959. AWGN Signal – UNII 6 – 160MHz – Mid



Plot 7-960. AWGN Signal – UNII 6 – 160MHz - High



Plot 7-961. AWGN Signal – UNII 7 – 20MHz



Plot 7-962. AWGN Signal – UNII 7 – 160MHz - Low