

Appendix Report

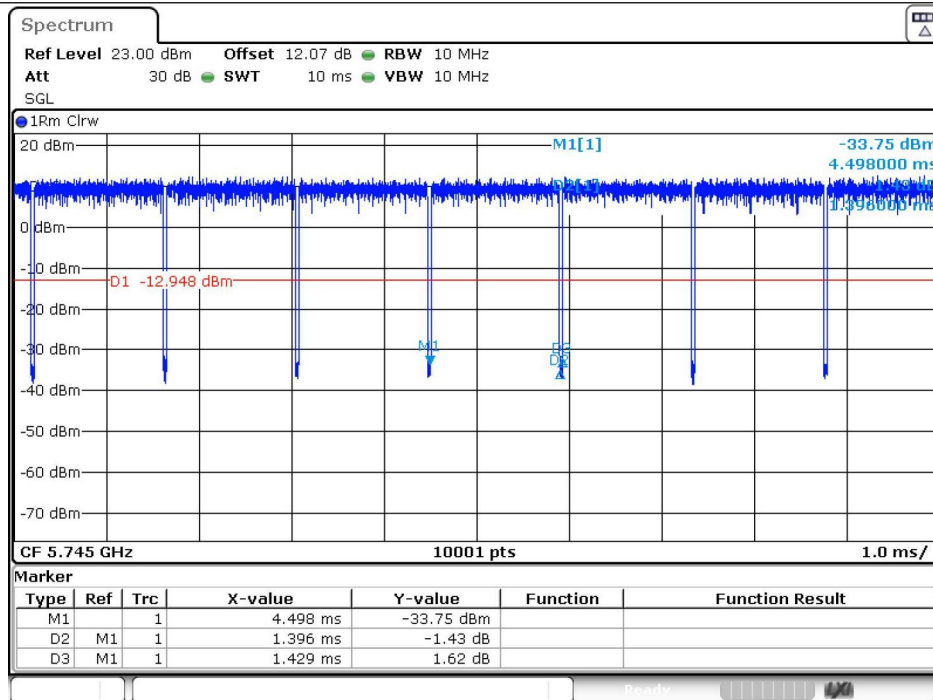
Report No.:	CISRR25010703103
Test Engineer:	Mark Fu
Supervised by:	Rory Huang

Duty Cycle

Test Result

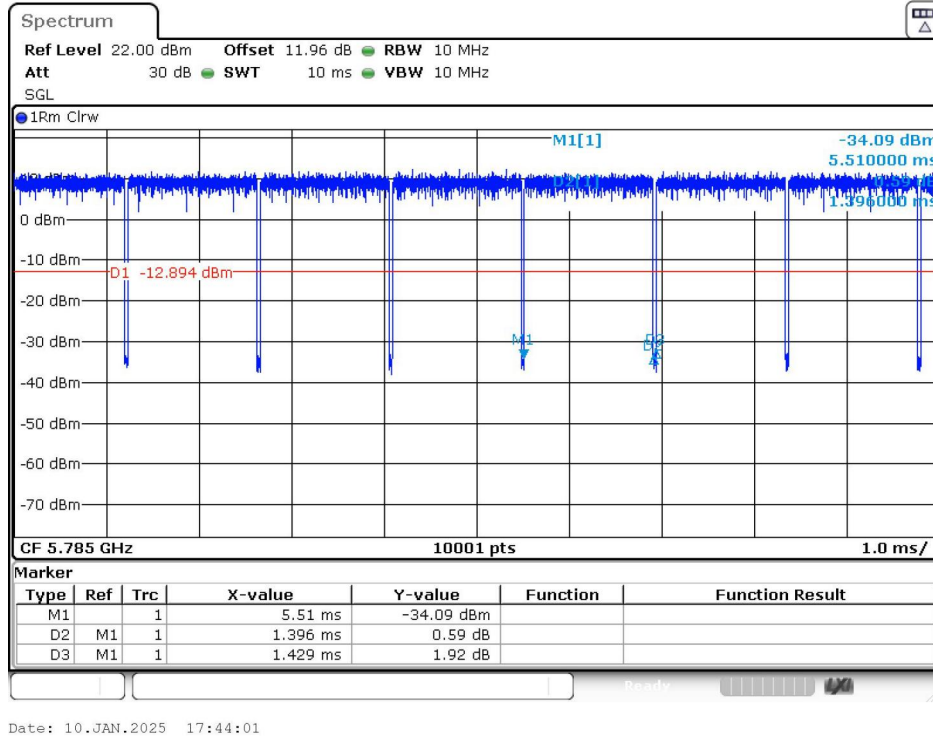
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	1	1.396	1.429	97.69	0.9769	0.1015	0.7163
		157		1.396	1.429	97.69	0.9769	0.1015	0.7163
		165		1.396	1.429	97.69	0.9769	0.1015	0.7163
IEEE 802.11n_20	MCS 0	149		1.304	1.337	97.53	0.9753	0.1086	0.7669
		157		1.293	1.327	97.44	0.9744	0.1126	0.7734
		165		1.304	1.337	97.53	0.9753	0.1086	0.7669
IEEE 802.11n_40		151		0.650	0.684	95.00	0.9500	0.2228	1.5385
		159		0.650	0.684	95.00	0.9500	0.2228	1.5385

Test Graphs

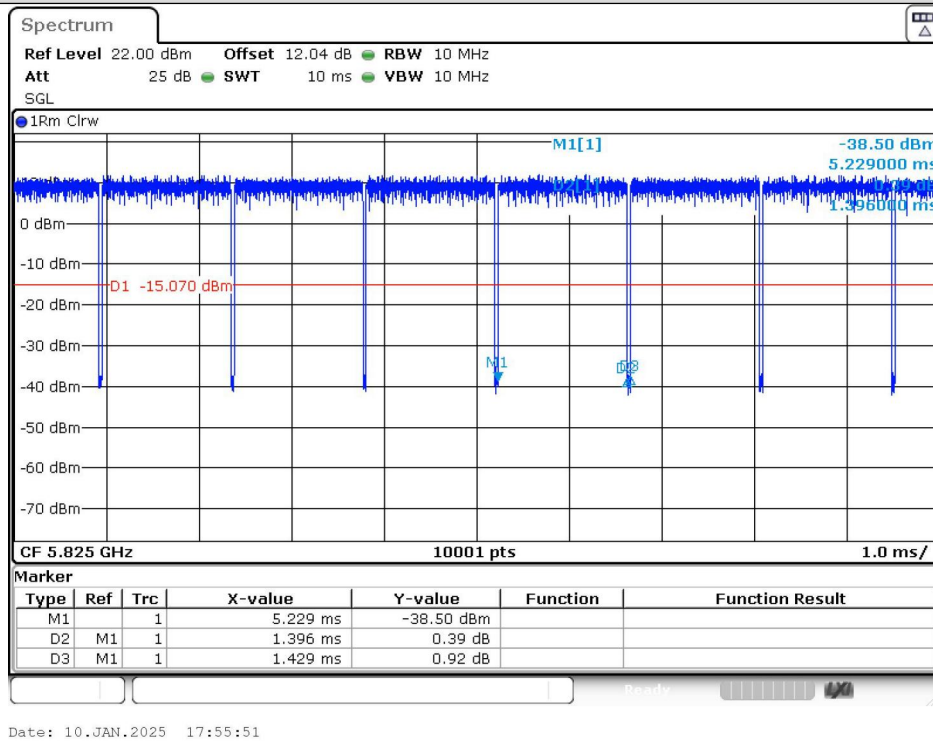


Date: 10.JAN.2025 17:40:13

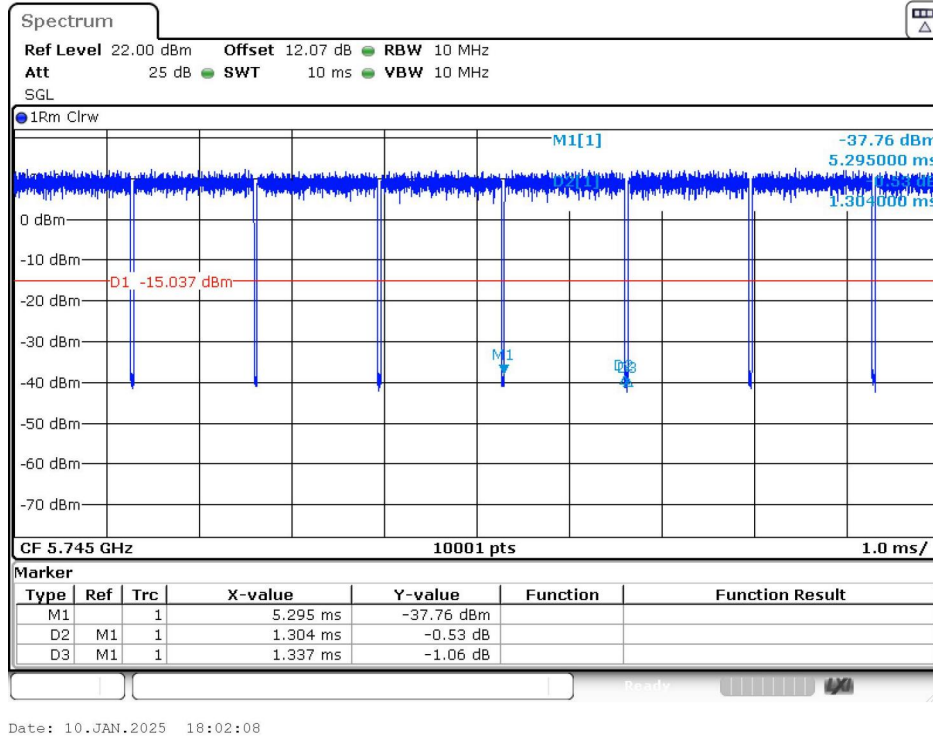
IEEE 802.11a_20MHz_Channel 149



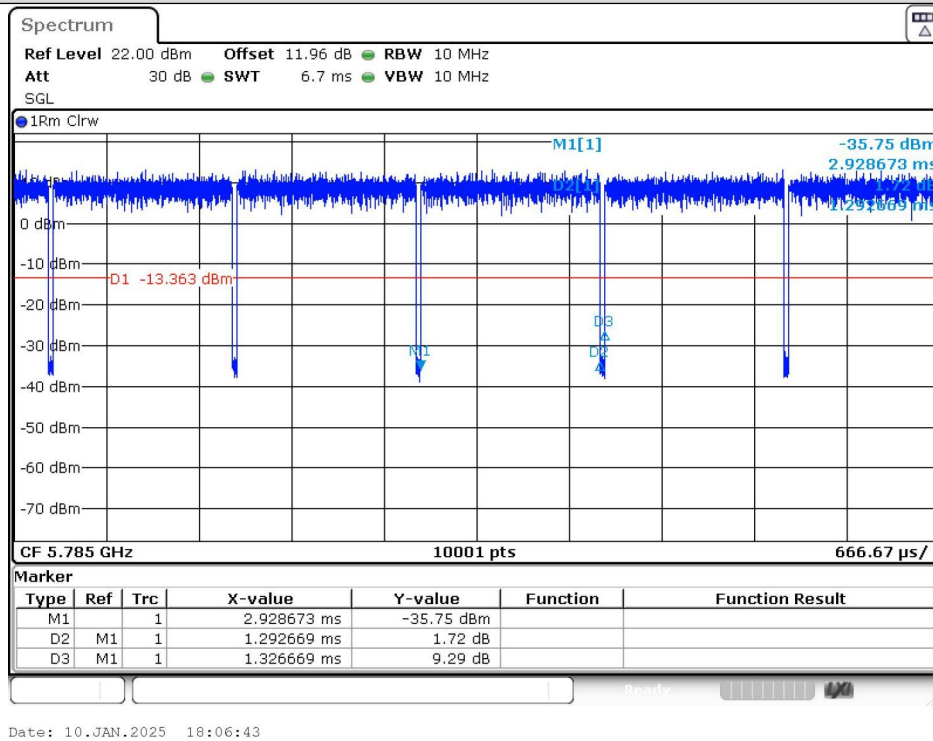
IEEE 802.11a_20MHz_Channel 157



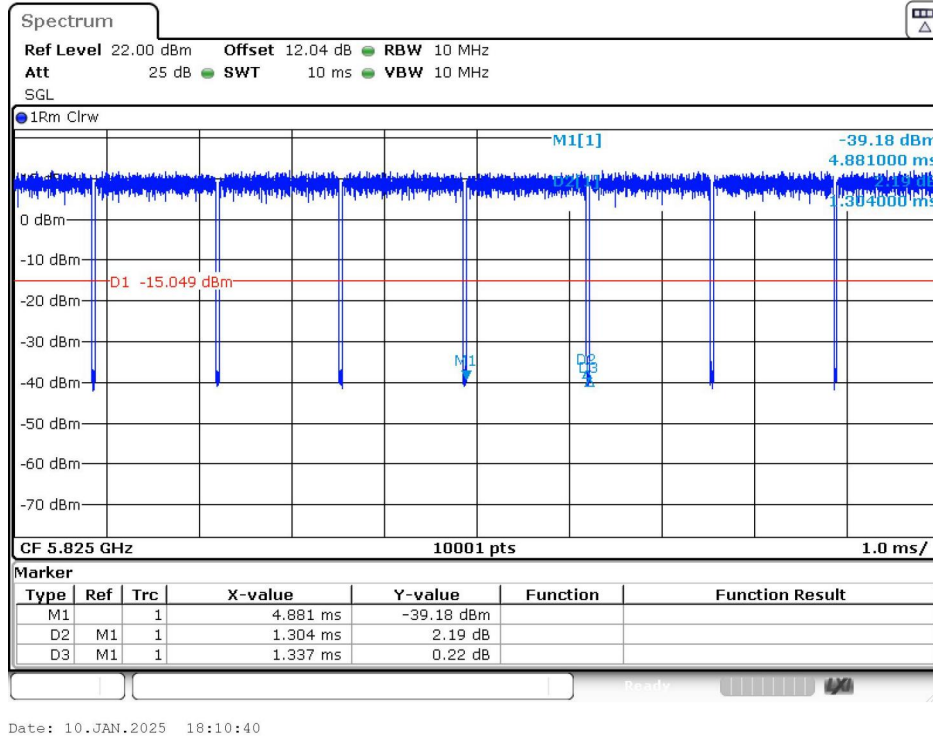
IEEE 802.11a_20MHz_Channel 165



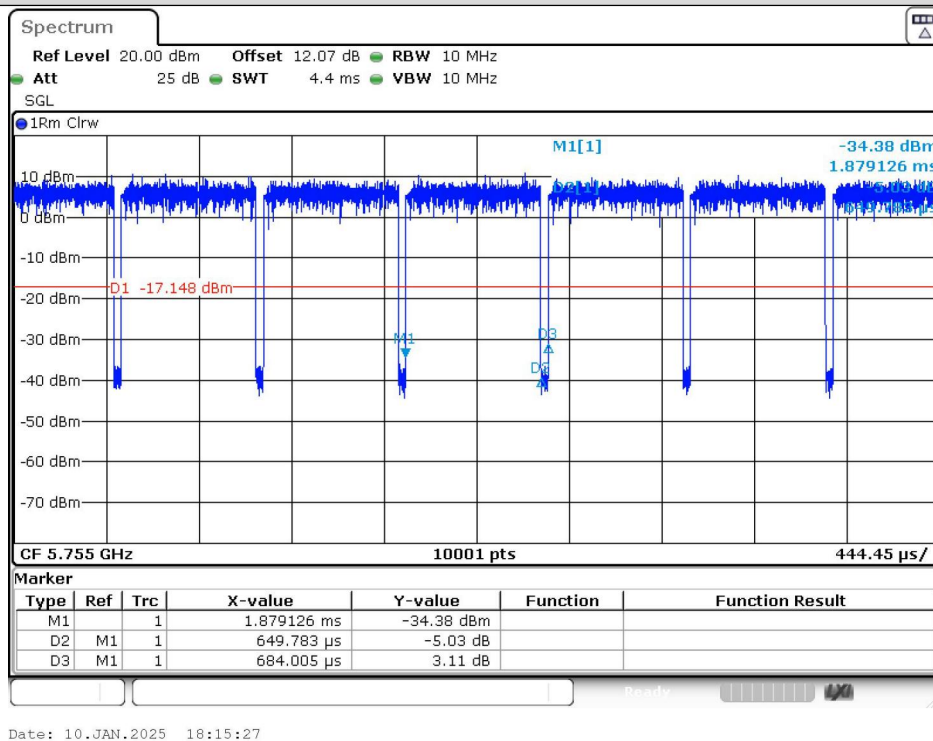
IEEE 802.11n_20MHz_Channel 149



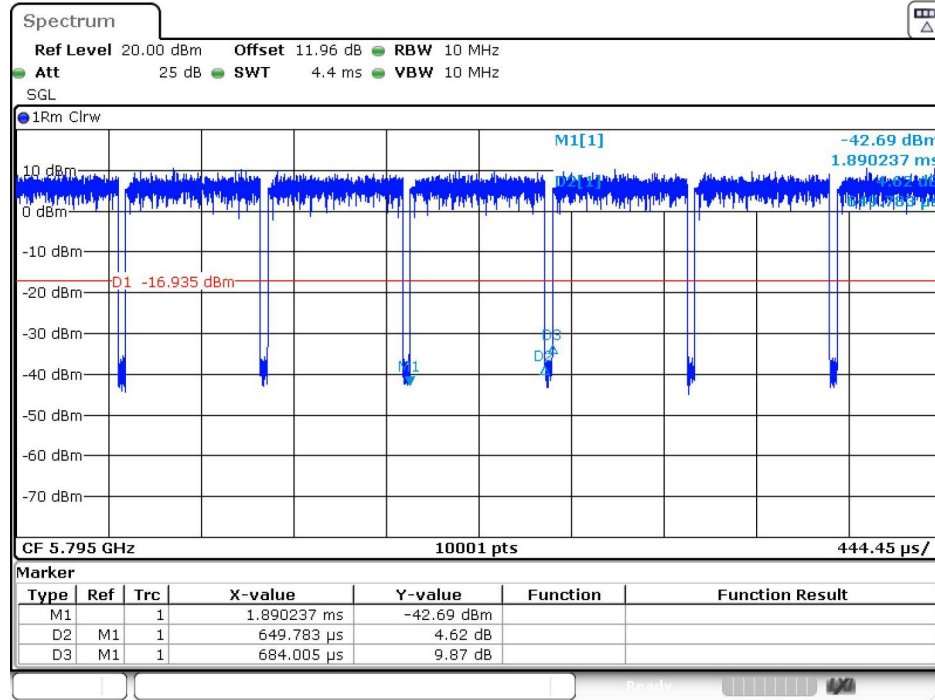
IEEE 802.11n_20MHz_Channel 157



IEEE 802.11n_20MHz_Channel 165



IEEE 802.11n_40MHz_Channel 151



Date: 10.JAN.2025 18:22:45

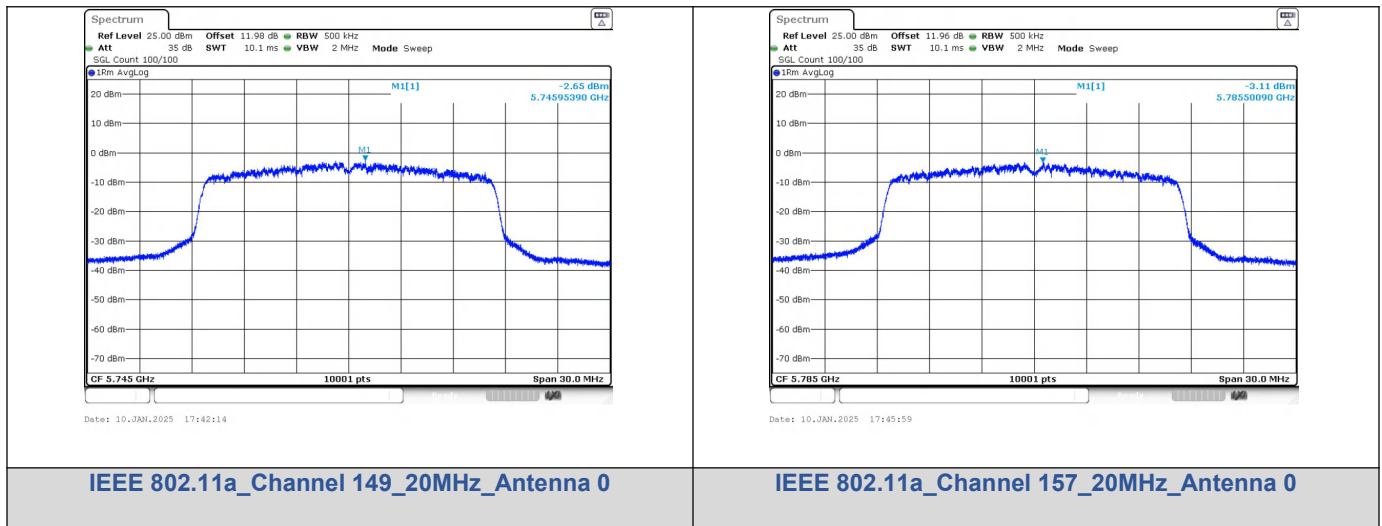
IEEE 802.11n_40MHz_Channel 159

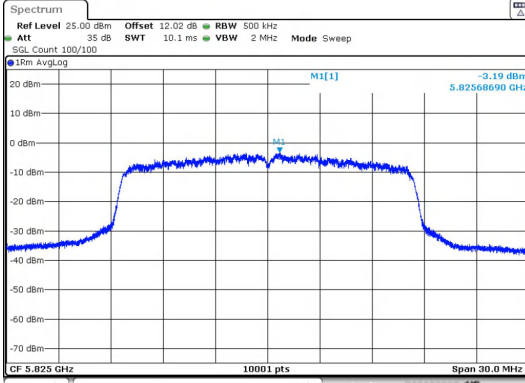
Peak Power Spectral Density

Test Result

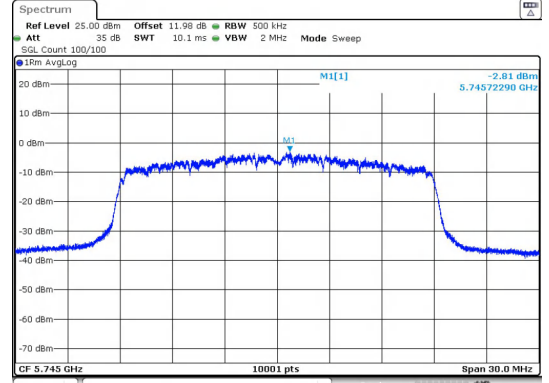
Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-2.650	-2.548	30	PASS
	157	-3.110	-3.008		PASS
	165	-3.190	-3.088		PASS
IEEE 802.11n_20	149	-2.810	-2.701		PASS
	157	-3.880	-3.771		PASS
	165	-3.560	-3.451		PASS
IEEE 802.11n_40	151	-7.020	-6.797		PASS
	159	-7.130	-6.907		PASS

Test Graphs

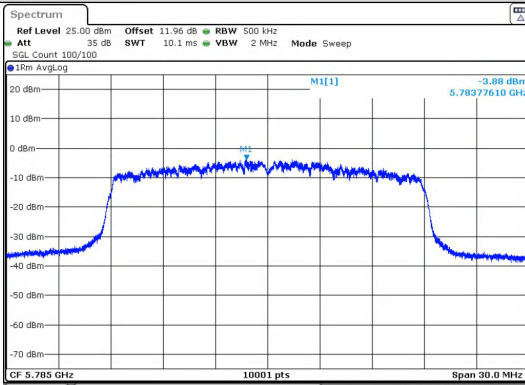




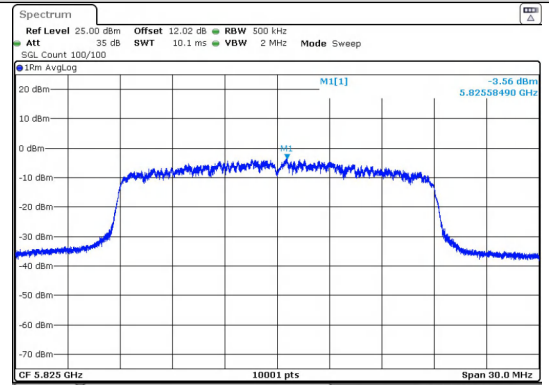
IEEE 802.11a_Channel 165_20MHz_Antenna 0



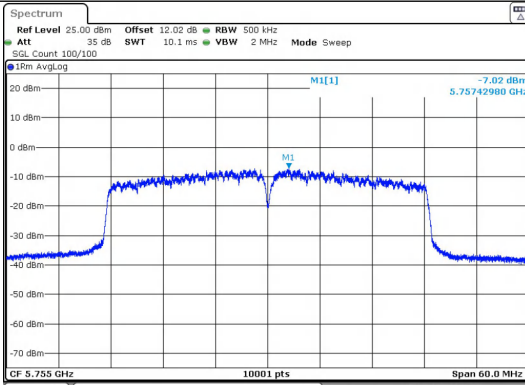
IEEE 802.11n_Channel 149_20MHz_Antenna 0



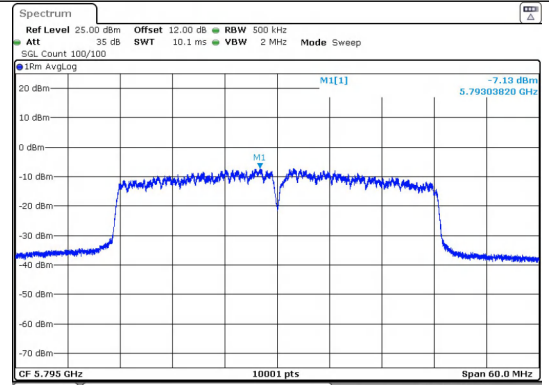
IEEE 802.11n_Channel 157_20MHz_Antenna 0



IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0



IEEE 802.11n_Channel 159_40MHz_Antenna 0

Frequency Stability

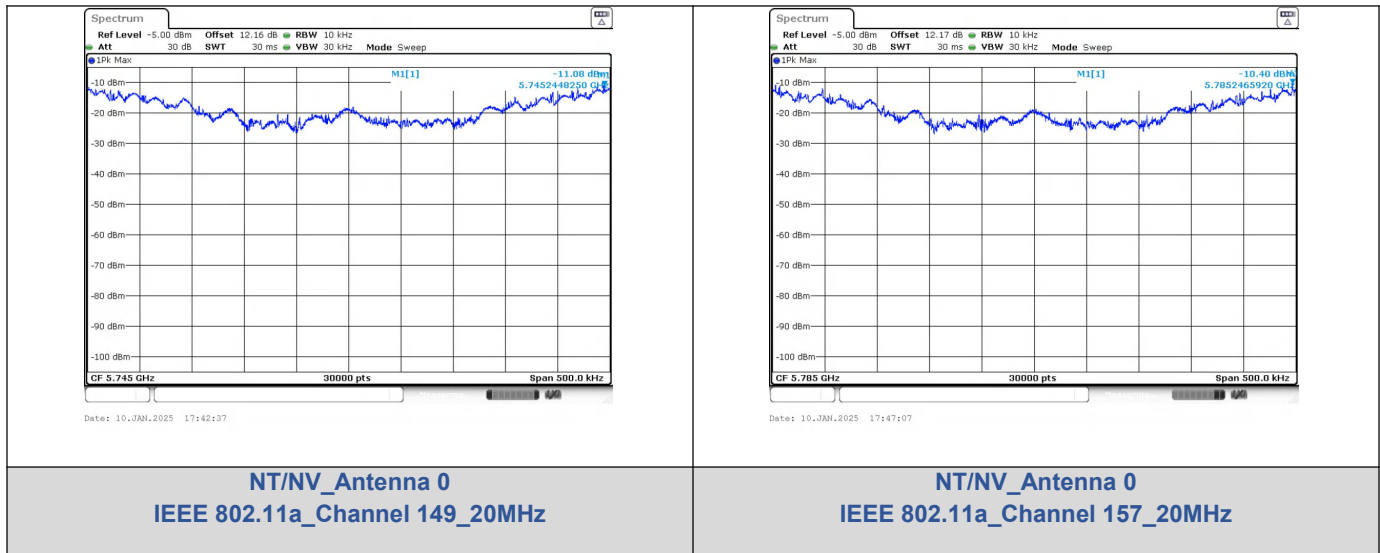
Test Result

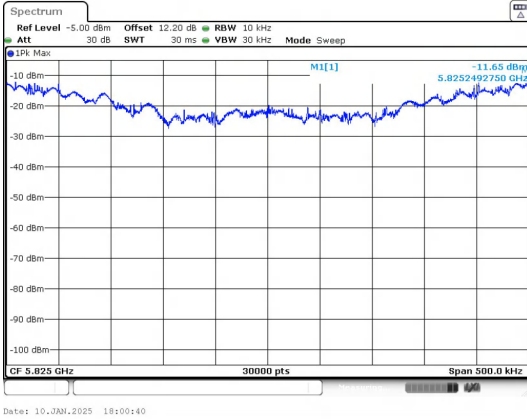
Condition	Mode	Ch.	Antenna	Center Frequency (MHz)	Calculated Value of Center Frequency(MHz)	Result (ppm)	Limit (ppm)	State
NT/NV	IEEE 802.11a	149	0	5745.0	5745.244825	42.62	Within authorized band	PASS
		157		5785.0	5785.246592	42.63		PASS
		165		5825.0	5825.249275	42.79		PASS
	IEEE 802.11n_20	149		5745.0	5744.750092	-43.5		PASS
		157		5785.0	5785.248375	42.93		PASS
		165		5825.0	5825.249025	42.75		PASS
	IEEE 802.11n_40	151		5755.0	5755.001058	0.18		PASS
		159		5795.0	5795.002775	0.48		PASS

Test Graphs

NT/NV

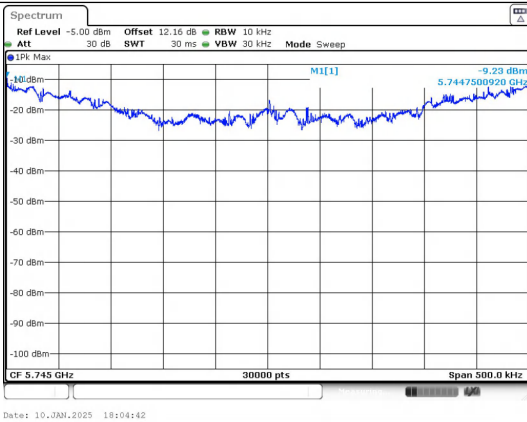
IEEE 802.11a



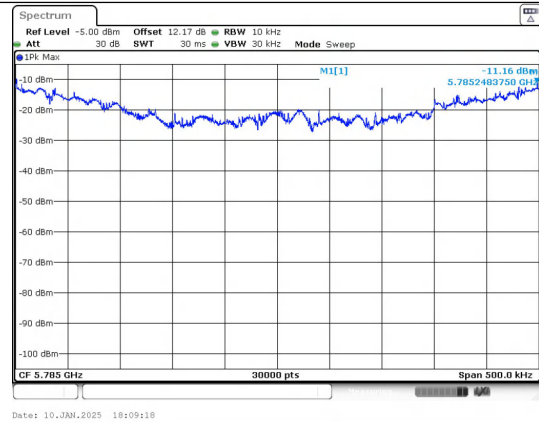


NT/NV_Antenna 0
IEEE 802.11a_Channel 165_20MHz

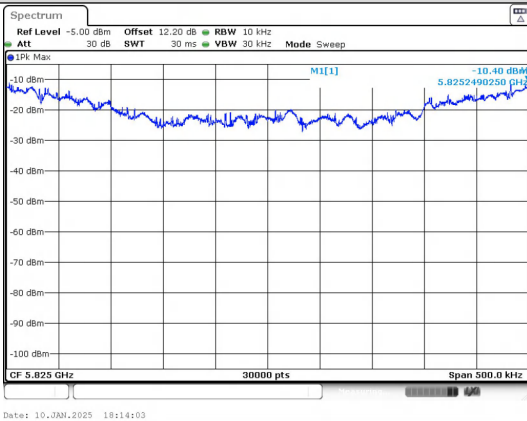
IEEE 802.11n_20



NT/NV_Antenna 0
IEEE 802.11n_Channel 149_20MHz

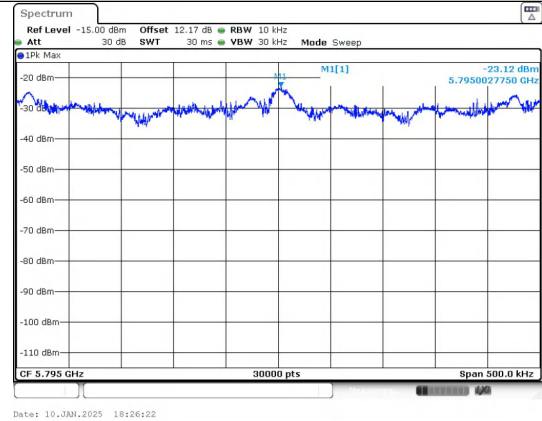
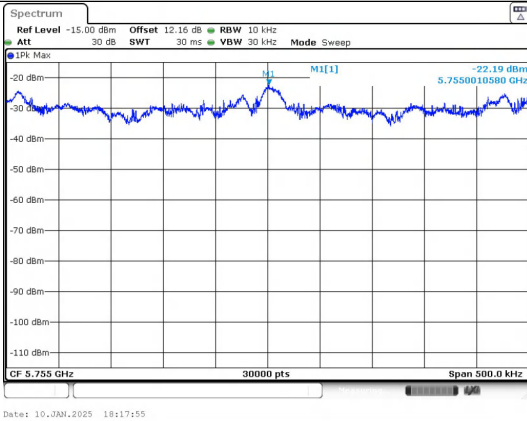


NT/NV_Antenna 0
IEEE 802.11n_Channel 157_20MHz



NT/NV_Antenna 0
IEEE 802.11n_Channel 165_20MHz

IEEE 802.11n_40



NT/NV_Antenna 0
IEEE 802.11n_Channel 151_40MHz

NT/NV_Antenna 0
IEEE 802.11n_Channel 159_40MHz

Conducted Output Power

Conducted output power

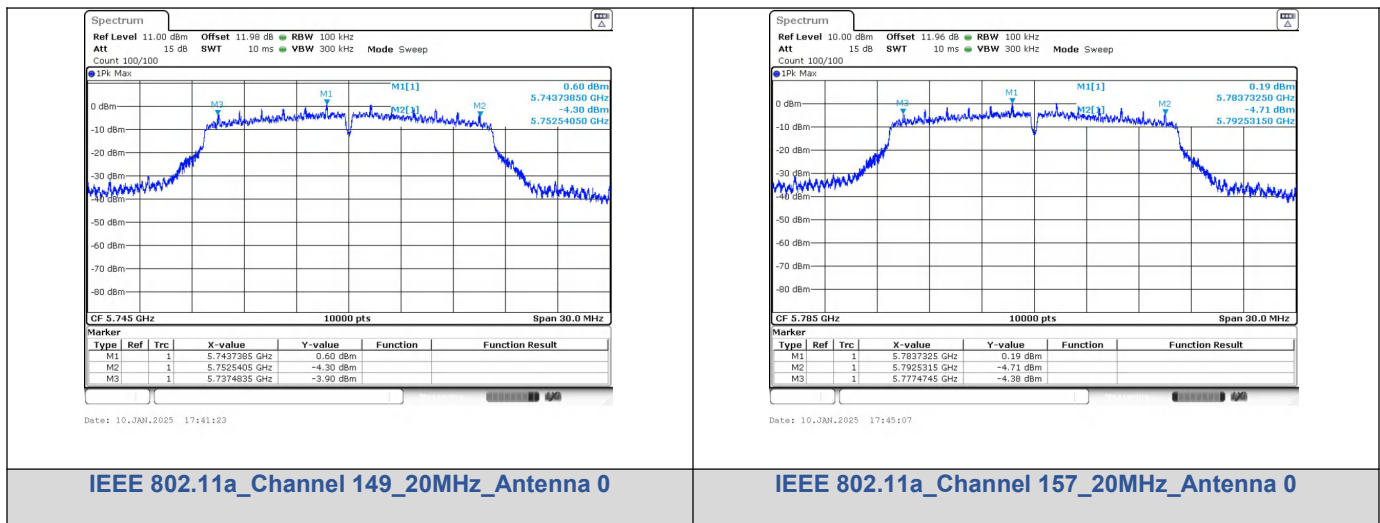
Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	6.733	≤30	PASS
	157	6.352	≤30	PASS
	165	6.314	≤30	PASS
IEEE 802.11n_20	149	6.324	≤30	PASS
	157	6.769	≤30	PASS
	165	6.985	≤30	PASS
IEEE 802.11n_40	151	6.353	≤30	PASS
	159	6.271	≤30	PASS

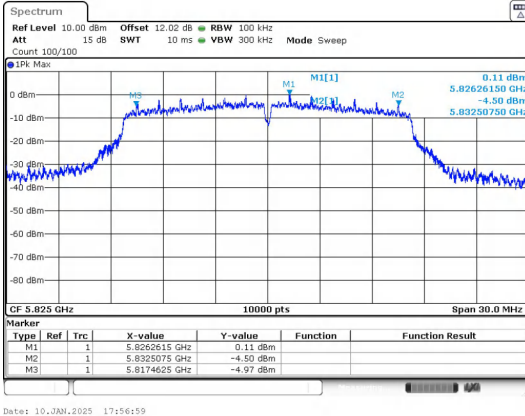
6dB Bandwidth

Test Result

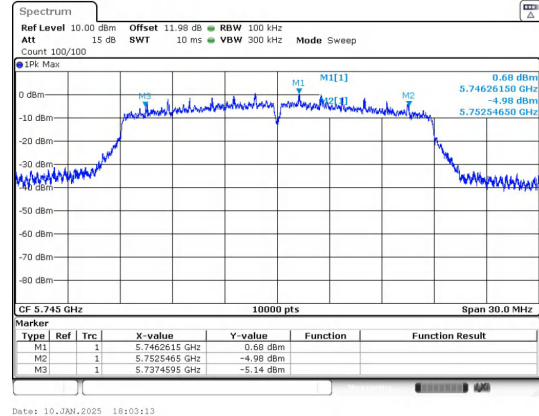
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.06	≥0.5	PASS
	157		5785	15.06		PASS
	165		5825	15.05		PASS
IEEE 802.11n_20	149		5745	15.09		PASS
	157		5785	15.02		PASS
	165		5825	15.10		PASS
IEEE 802.11n_40	151		5755	35.04		PASS
	159		5795	35.03		PASS

Test Graphs

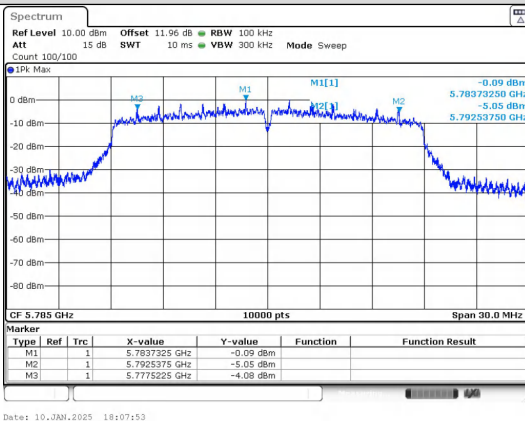




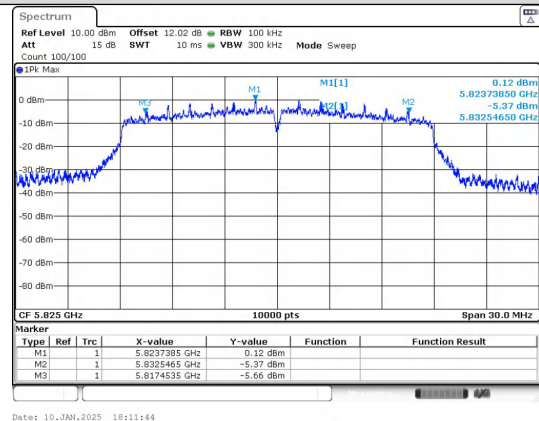
IEEE 802.11a_Channel 165_20MHz_Antenna 0



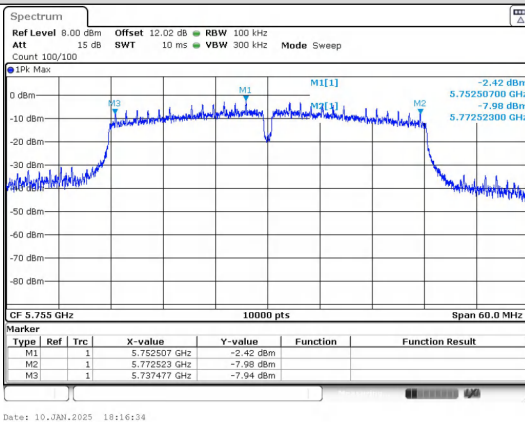
IEEE 802.11n_Channel 149_20MHz_Antenna 0



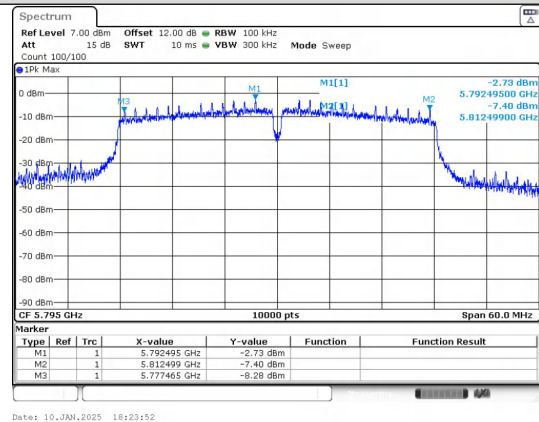
IEEE 802.11n_Channel 157_20MHz_Antenna 0



IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0



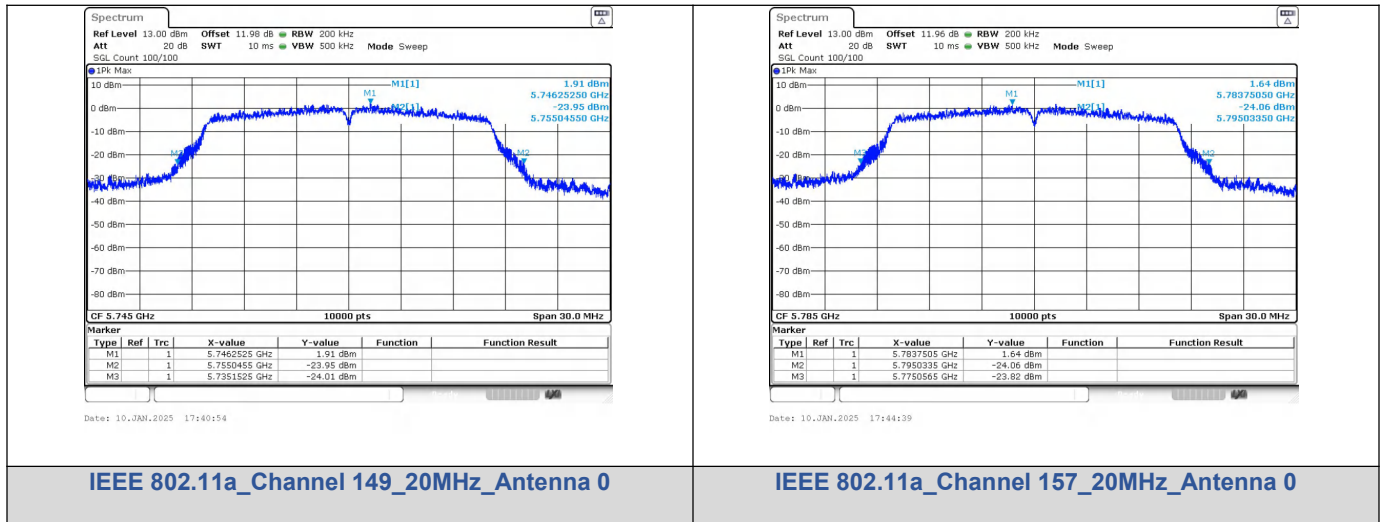
IEEE 802.11n_Channel 159_40MHz_Antenna 0

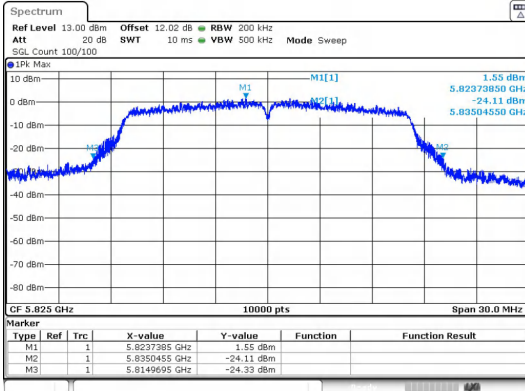
26dB Bandwidth

Test Result

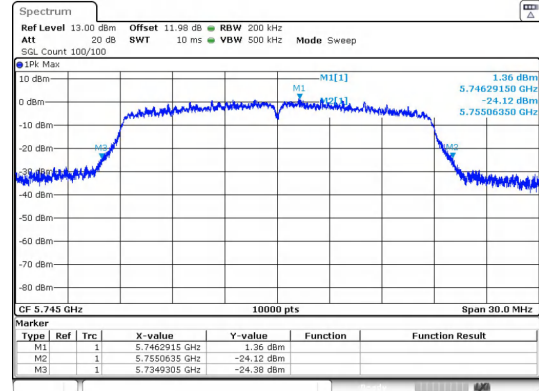
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	19.90	1.12
	157		5785	19.97	1.11
	165		5825	20.08	1.11
IEEE 802.11n_20	149		5745	20.13	1.11
	157		5785	20.15	1.11
	165		5825	20.25	1.11
IEEE 802.11n_40	151		5755	40.23	1.06
	159		5795	41.27	1.04

Test Graphs





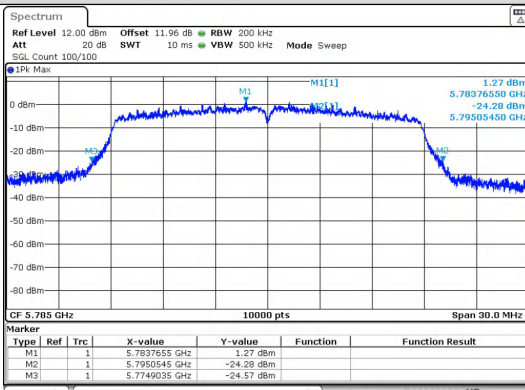
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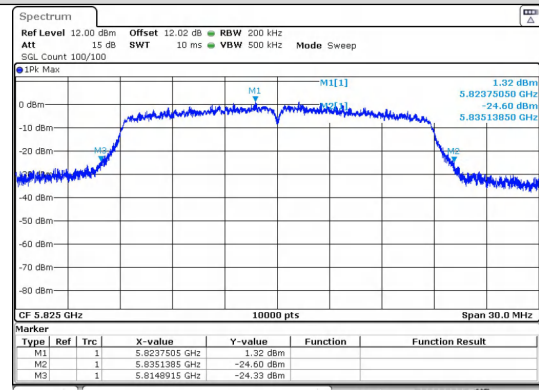
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IEEE 802.11a_Channel 165_20MHz_Antenna 0

IEEE 802.11n_Channel 149_20MHz_Antenna 0



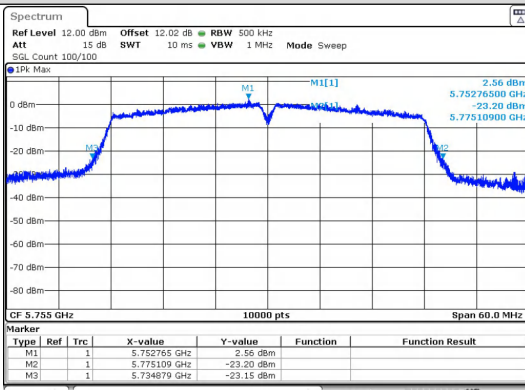
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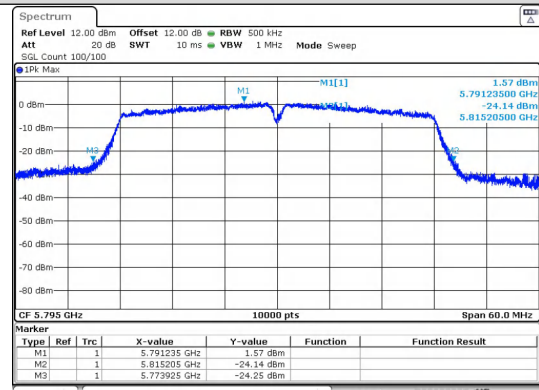
Date: 10, JAN, 2025 18:11:15

IEEE 802.11n_Channel 157_20MHz_Antenna 0

IEEE 802.11n_Channel 165_20MHz_Antenna 0



Date: 10, JAN, 2025 18:16:05



Date: 10, JAN, 2025 18:23:23

IEEE 802.11n_Channel 151_40MHz_Antenna 0

IEEE 802.11n_Channel 159_40MHz_Antenna 0

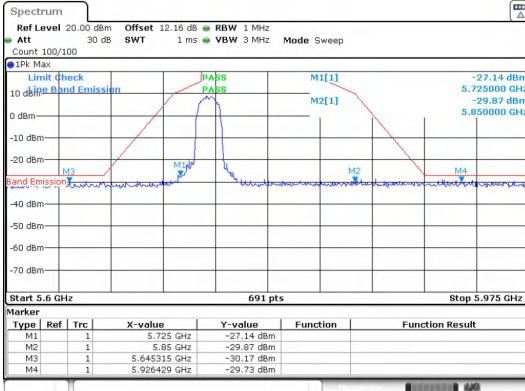
Conducted Out Of Band Emission

Test Result

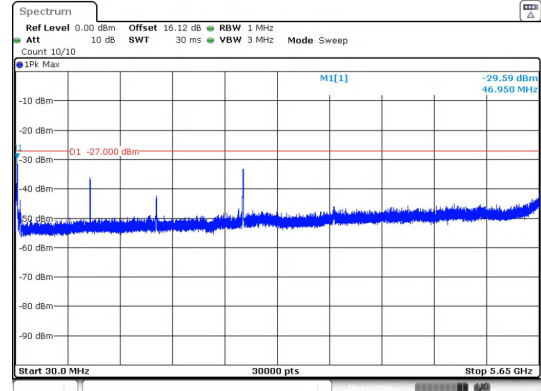
Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	0	46.95	-29.590	-27	-2.590	PASS
			5645.31	-30.169	-27	-3.169	PASS
			5725.00	-27.140	27	-54.140	PASS
			5850.00	-29.870	27	-56.870	PASS
			5926.43	-29.725	-27	-2.725	PASS
			18317.7	-43.370	-27	-16.370	PASS
	157		47.33	-30.810	-27	-3.810	PASS
			5644.23	-30.410	-27	-3.410	PASS
			5725.00	-31.110	27	-58.110	PASS
			5850.00	-30.240	27	-57.240	PASS
			5934.03	-29.083	-27	-2.083	PASS
			23949.9	-43.170	-27	-16.170	PASS
	165		46.77	-29.340	-27	-2.340	PASS
			5648.57	-30.056	-27	-3.056	PASS
			5725.00	-30.810	27	-57.810	PASS
			5850.00	-28.670	27	-55.670	PASS
			5947.59	-29.801	-27	-2.801	PASS
			14539.0	-42.850	-27	-15.850	PASS
IEEE 802.11n_20	149		46.95	-29.670	-27	-2.670	PASS
			5631.75	-29.536	-27	-2.536	PASS
			5725.00	-27.760	27	-54.760	PASS
			5850.00	-31.830	27	-58.830	PASS
			5927.51	-29.176	-27	-2.176	PASS
			15892.6	-42.440	-27	-15.440	PASS

	157		46.95	-28.900	-27	-1.900	PASS
			5642.06	-29.877	-27	-2.877	PASS
			5725.00	-31.140	27	-58.140	PASS
			5850.00	-30.170	27	-57.170	PASS
			5961.70	-28.798	-27	-1.798	PASS
			17361.4	-42.940	-27	-15.940	PASS
	165		2473.30	-35.910	-27	-8.910	PASS
			5600.27	-29.701	-27	-2.701	PASS
			5725.00	-31.420	27	-58.420	PASS
			5850.00	-29.340	27	-56.340	PASS
			5929.69	-30.231	-27	-3.231	PASS
			16320.6	-43.210	-27	-16.210	PASS
IEEE 802.11n_40	151		64.00	-35.610	-27	-8.610	PASS
			5625.78	-29.881	-27	-2.881	PASS
			5725.00	-23.780	27	-50.780	PASS
			5850.00	-30.490	27	-57.490	PASS
			5929.69	-28.987	-27	-1.987	PASS
			16250.0	-42.950	-27	-15.950	PASS
	159		49.58	-34.450	-27	-7.450	PASS
			5611.67	-29.760	-27	-2.760	PASS
			5725.00	-31.030	27	-58.030	PASS
			5850.00	-30.890	27	-57.890	PASS
			5962.25	-29.133	-27	-2.133	PASS
			16904.9	-42.960	-27	-15.960	PASS

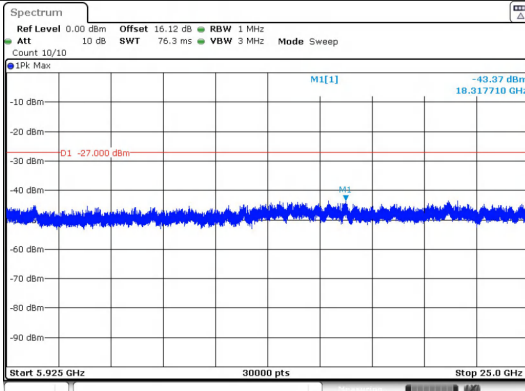
Test Graphs



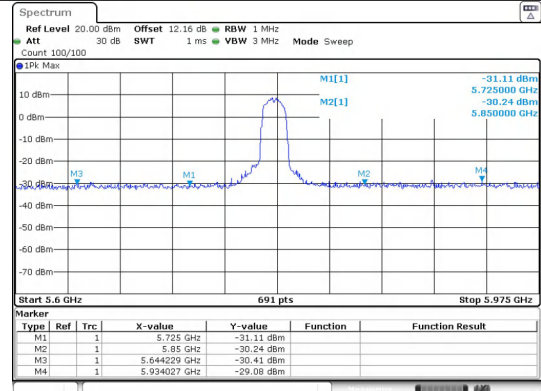
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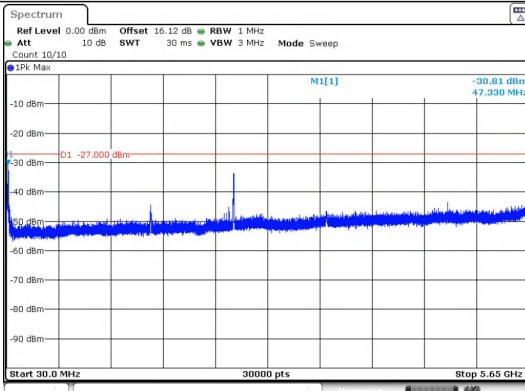
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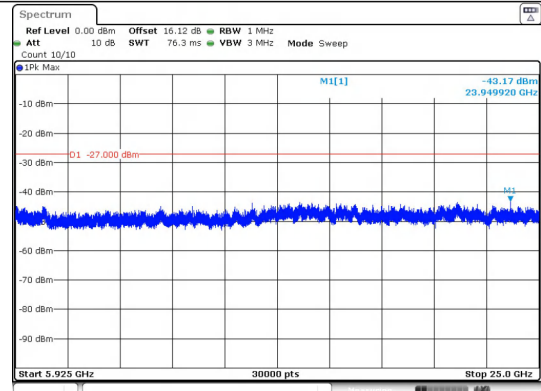
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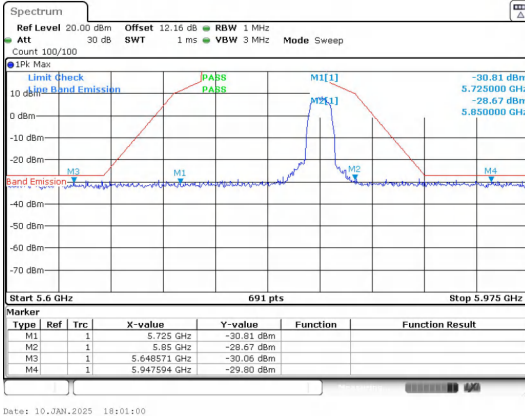
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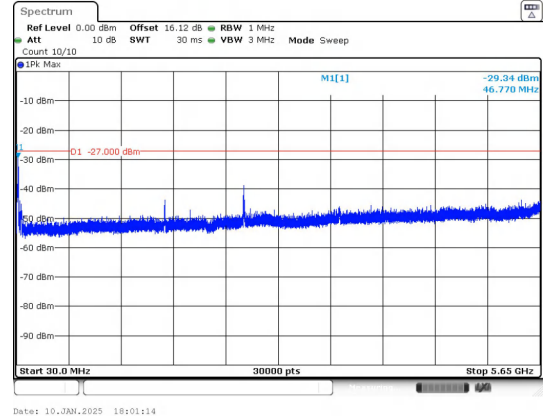
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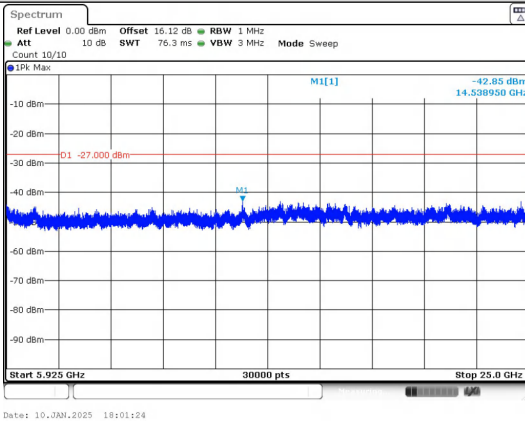
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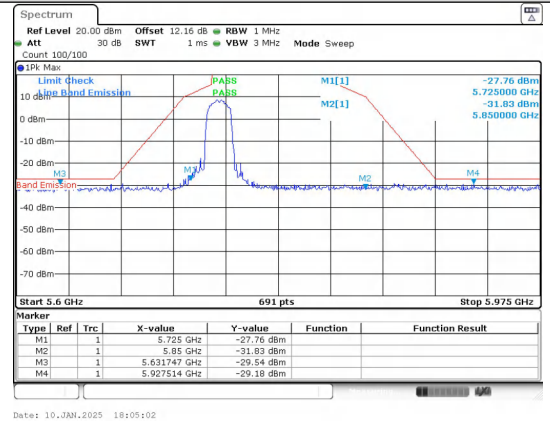
Out Of Band Emission
IEEE 802.11a_Channel 165_20MHz_Antenna 0



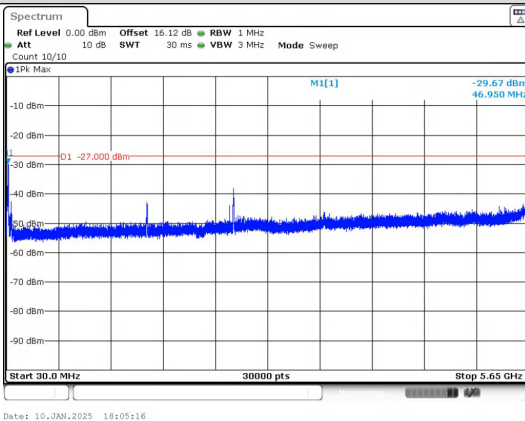
Spurious Emission:30.0~5650 MHz
IEEE 802.11a_Channel 165_20MHz_Antenna 0



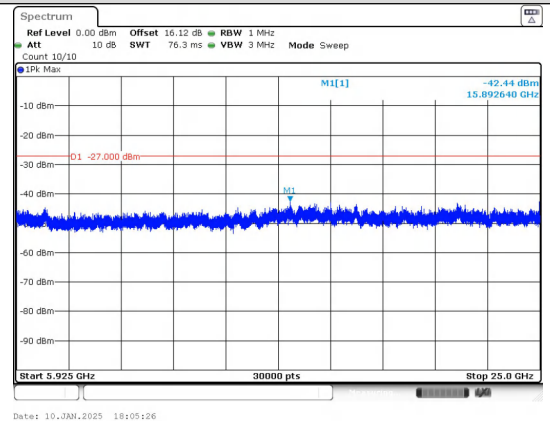
Spurious Emission:5925~25000.0 MHz
IEEE 802.11a_Channel 165_20MHz_Antenna 0



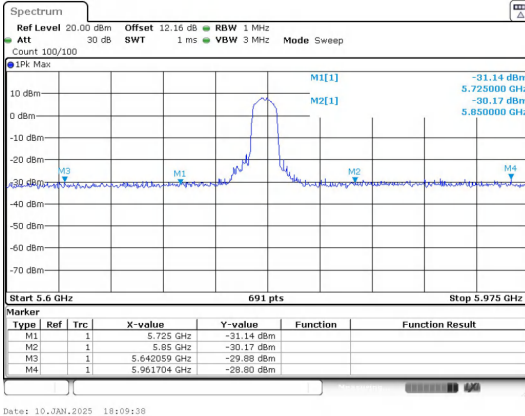
Out Of Band Emission
IEEE 802.11n_Channel 149_20MHz_Antenna 0



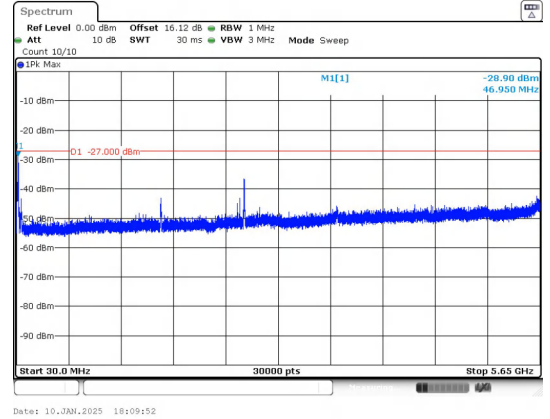
Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 149_20MHz_Antenna 0



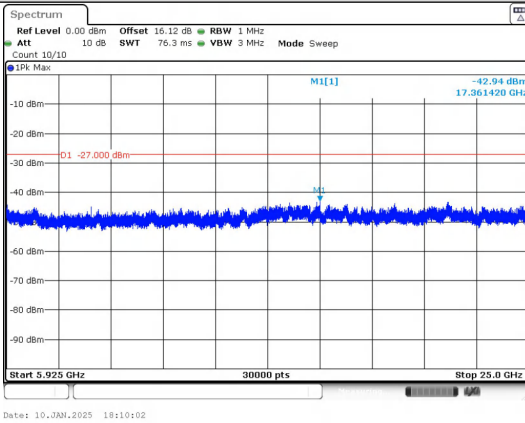
Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 149_20MHz_Antenna 0



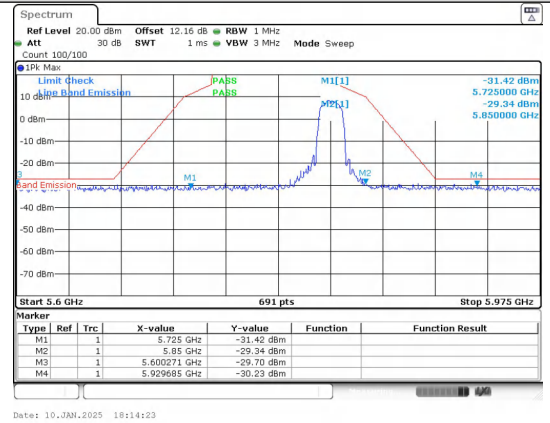
Out Of Band Emission
IEEE 802.11n_Channel 157_20MHz_Antenna 0



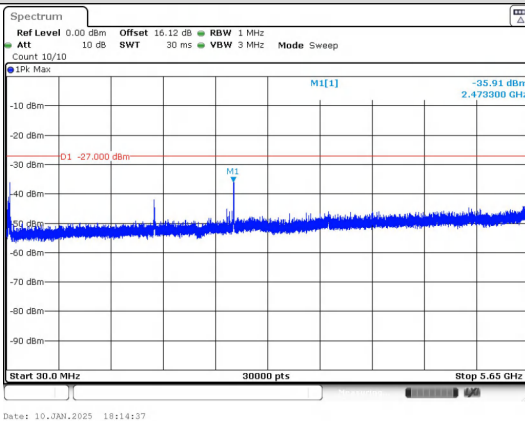
Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 157_20MHz_Antenna 0



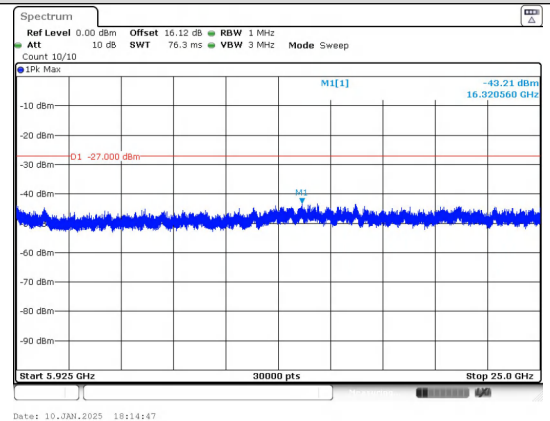
Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 157_20MHz_Antenna 0



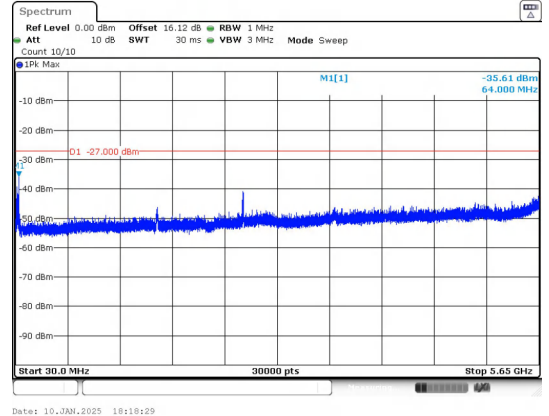
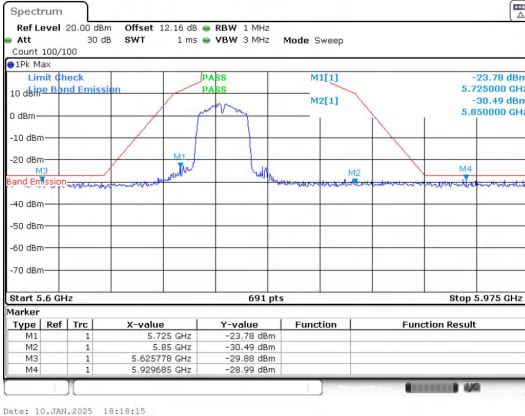
Out Of Band Emission
IEEE 802.11n_Channel 165_20MHz_Antenna 0



Spurious Emission:30.0~5650 MHz
IEEE 802.11n_Channel 165_20MHz_Antenna 0

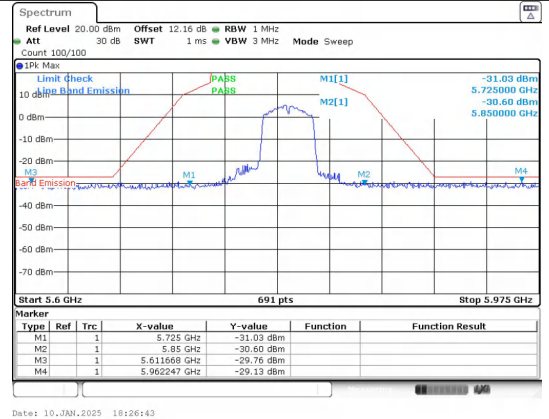
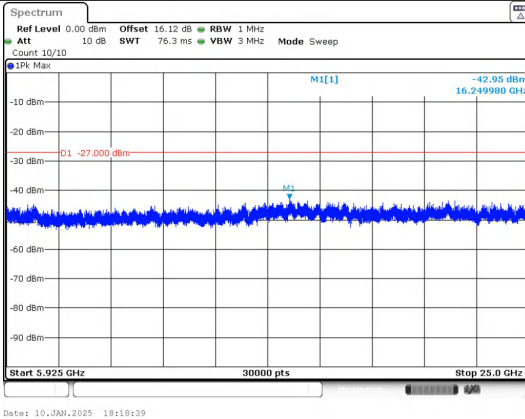


Spurious Emission:5925~25000.0 MHz
IEEE 802.11n_Channel 165_20MHz_Antenna 0



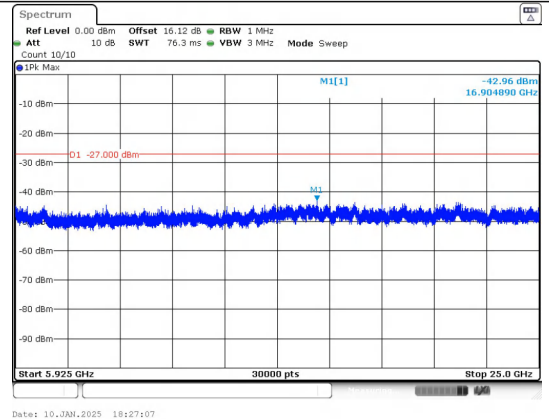
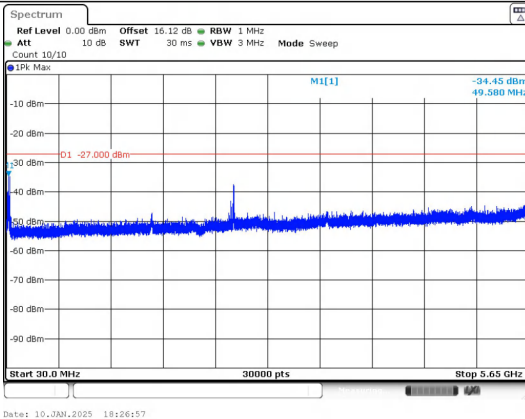
Out Of Band Emission IEEE 802.11n_Channel 151_40MHz_Antenna 0

Spurious Emission:30.0~5650 MHz IEEE 802.11n_Channel 151_40MHz_Antenna 0



Spurious Emission:5925~25000.0 MHz IEEE 802.11n_Channel 151_40MHz_Antenna 0

Out Of Band Emission IEEE 802.11n_Channel 159_40MHz_Antenna 0



Spurious Emission:30.0~5650 MHz IEEE 802.11n_Channel 159_40MHz_Antenna 0

Spurious Emission:5925~25000.0 MHz IEEE 802.11n_Channel 159_40MHz_Antenna 0

-----End of the report-----