

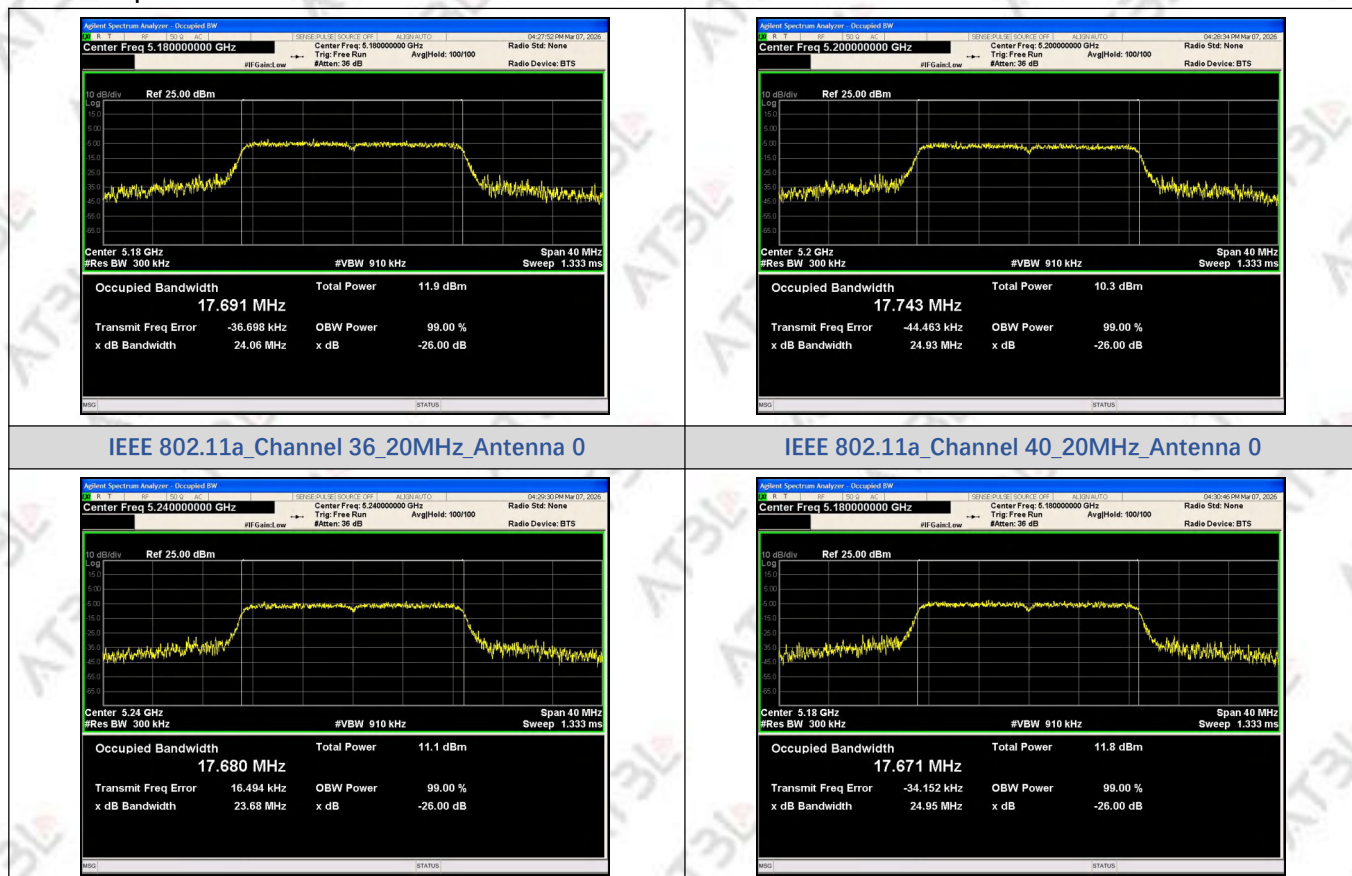
D1.Emission Bandwidth

26dB Bandwidth

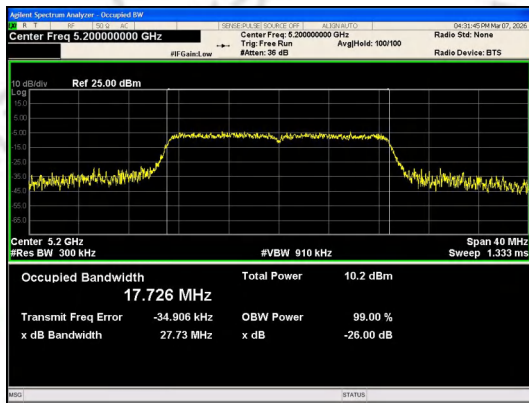
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)
IEEE 802.11a	36	0	5180	24.06
	40		5200	24.93
	48		5240	23.68
IEEE 802.11n_20	36		5180	24.95
	40		5200	27.73
	48		5240	25.57
IEEE 802.11n_40	38		5190	46.33
	46		5230	44.43
IEEE 802.11ac_20	36		5180	24.54
	40		5200	28.71
	48		5240	24.98
IEEE 802.11ac_40	38		5190	42.15
	46		5230	43.86
IEEE 802.11ac_80	42		5210	87.78

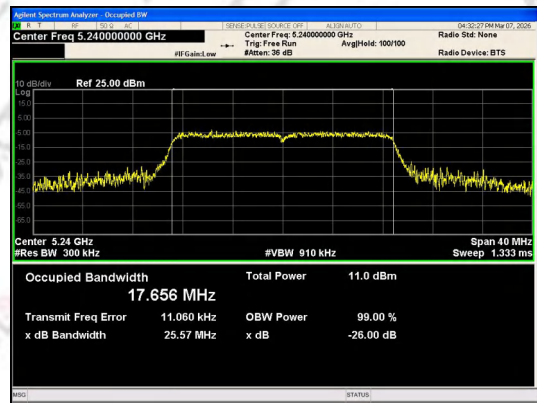
Test Graphs



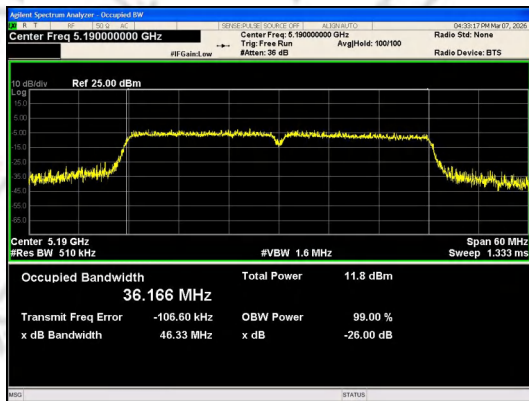
IEEE 802.11a_Channel 48_20MHz_Antenna 0



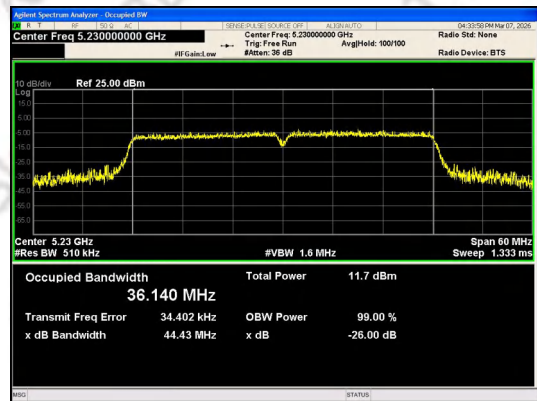
IEEE 802.11n_Channel 36_20MHz_Antenna 0



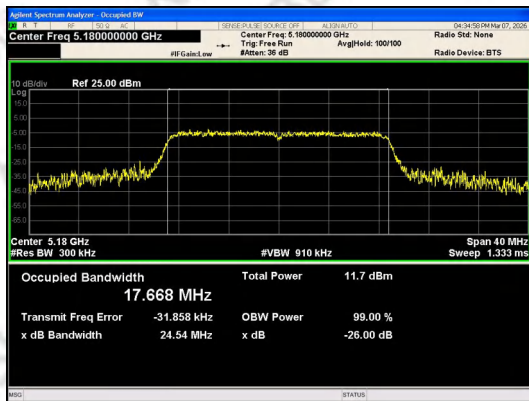
IEEE 802.11n_Channel 40_20MHz_Antenna 0



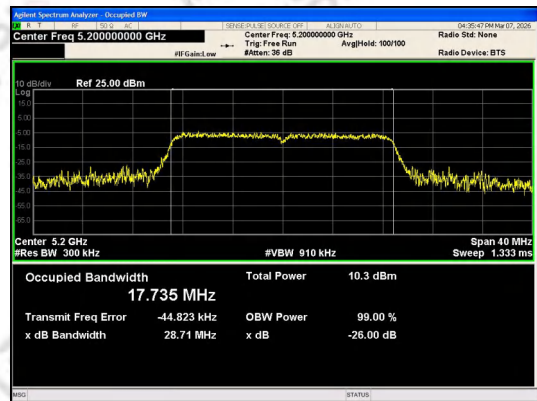
IEEE 802.11n_Channel 48_20MHz_Antenna 0



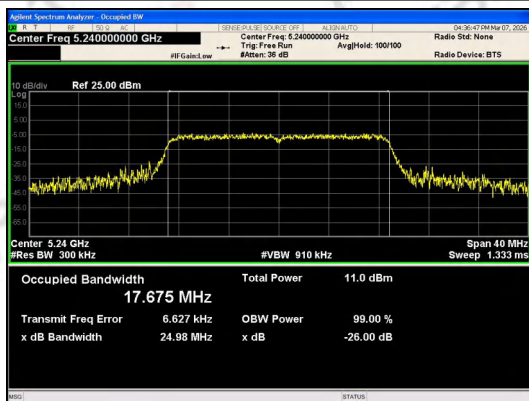
IEEE 802.11n_Channel 38_40MHz_Antenna 0



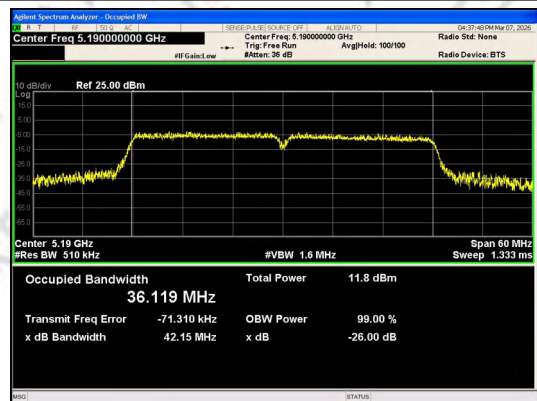
IEEE 802.11n_Channel 46_40MHz_Antenna 0



IEEE 802.11ac_Channel 36_20MHz_Antenna 0

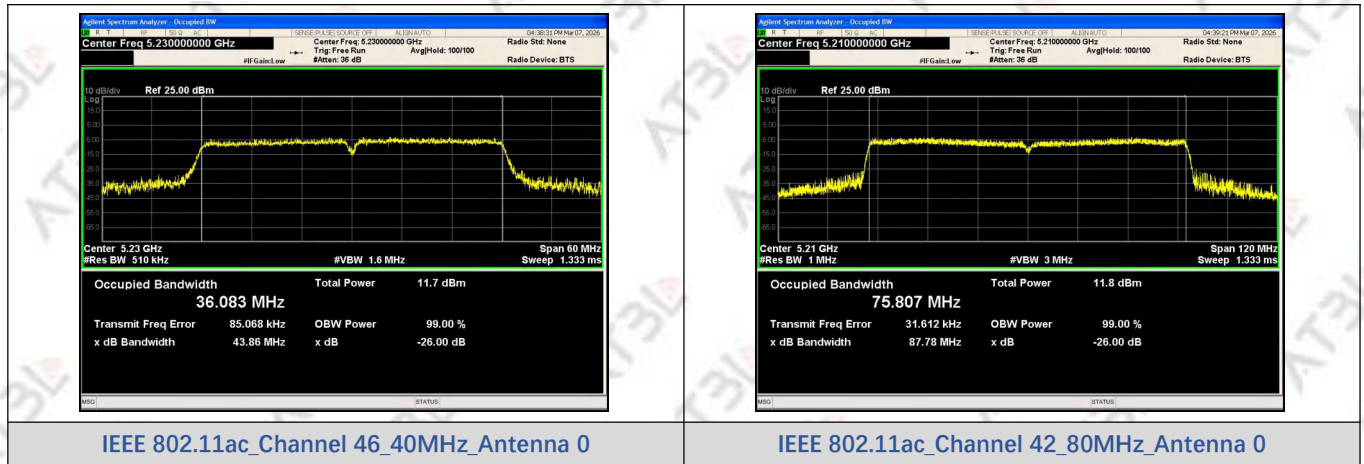


IEEE 802.11ac_Channel 40_20MHz_Antenna 0



IEEE 802.11ac_Channel 48_20MHz_Antenna 0

IEEE 802.11ac_Channel 38_40MHz_Antenna 0



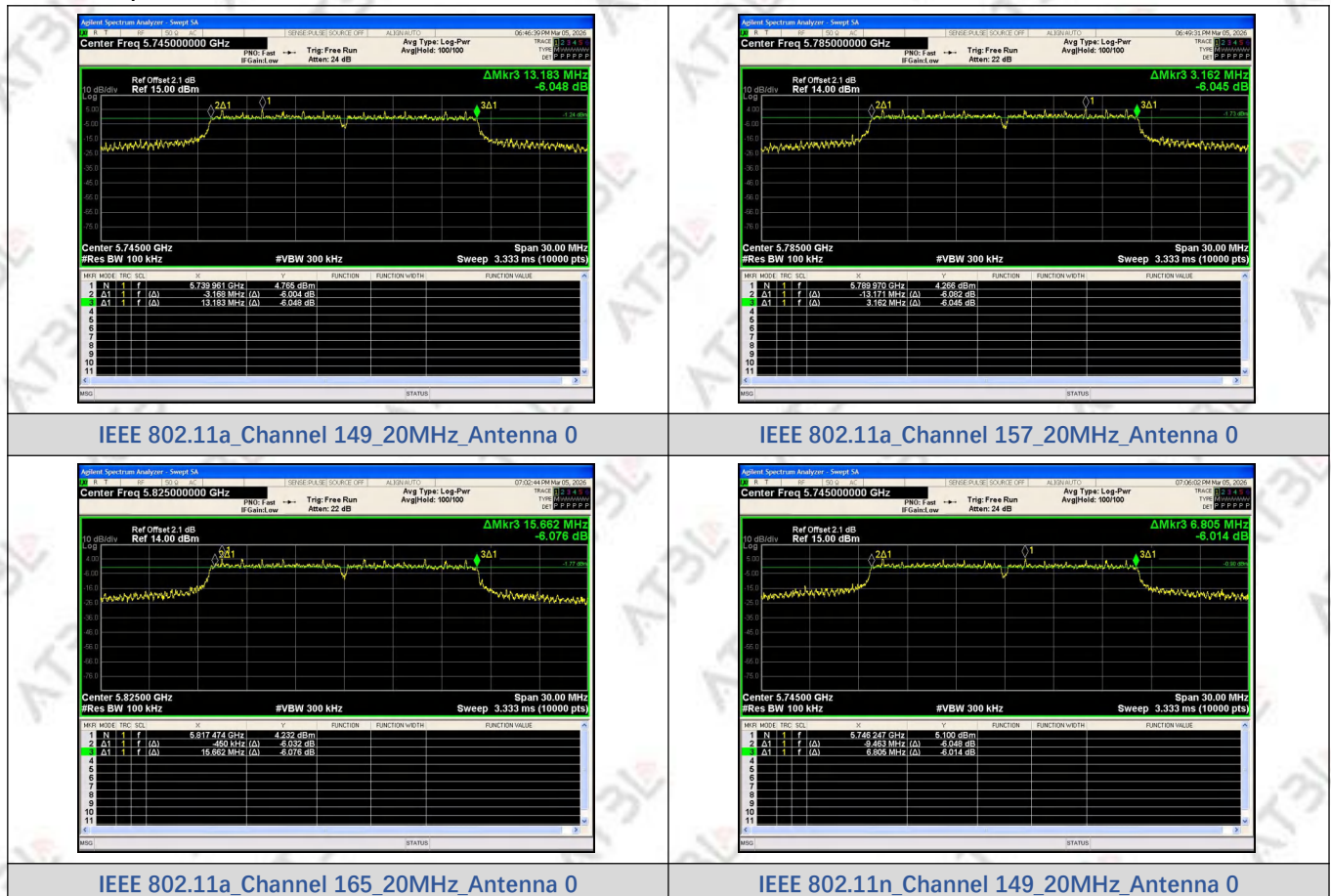
D2.Minimum Emission Bandwidth for the band 5.725–5.85 GHz

6dB Bandwidth

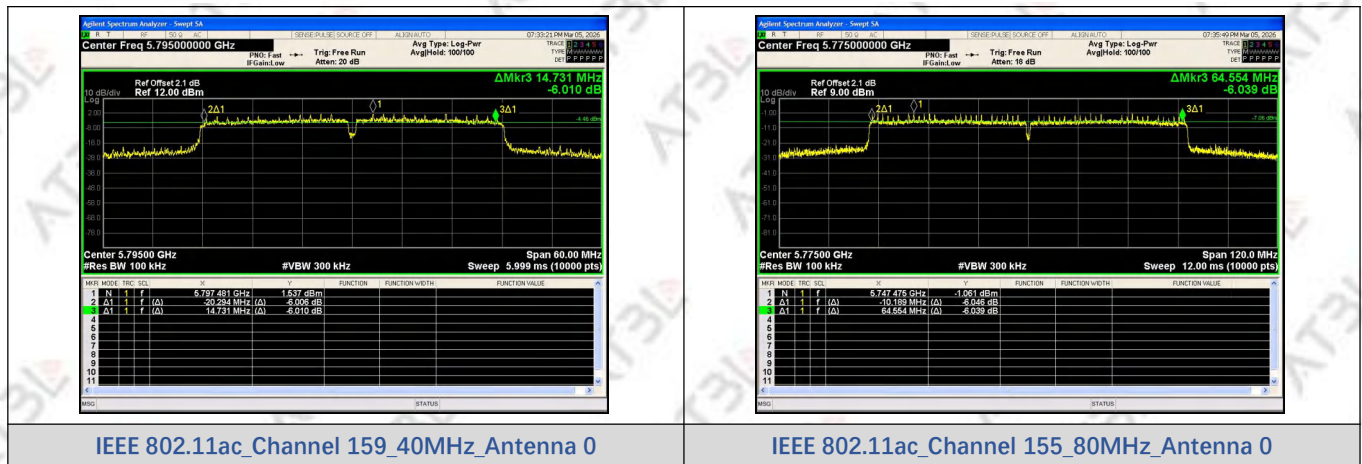
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.35	≥0.5	PASS
	157		5785	16.33		PASS
	165		5825	16.12		PASS
IEEE 802.11n_20	149		5745	16.27		PASS
	157		5785	17.23		PASS
	165		5825	17.11		PASS
IEEE 802.11n_40	151		5755	35.16		PASS
	159		5795	35.04		PASS
IEEE 802.11ac_20	149		5745	16.76		PASS
	157		5785	17.27		PASS
	165		5825	17.08		PASS
IEEE 802.11ac_40	151		5755	35.54		PASS
	159		5795	35.02		PASS
IEEE 802.11ac_80	155		5775	74.74		PASS

Test Graphs







D3.Maximum Conducted Average Output Power

Test Result

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	15.15	≤23.97	PASS
	40	13.98	≤23.97	PASS
	48	14.73	≤23.97	PASS
IEEE 802.11n_20	36	14.71	≤23.97	PASS
	40	13.66	≤23.97	PASS
	48	14.57	≤23.97	PASS
IEEE 802.11n_40	38	14.56	≤23.97	PASS
	46	14.48	≤23.97	PASS
IEEE 802.11ac_20	36	14.53	≤23.97	PASS
	40	13.49	≤23.97	PASS
	48	14.15	≤23.97	PASS
IEEE 802.11ac_40	38	14.43	≤23.97	PASS
	46	14.24	≤23.97	PASS
IEEE 802.11ac_80	42	14.52	≤23.97	PASS

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	15.03	≤30	PASS
	157	14.69	≤30	PASS
	165	14.15	≤30	PASS
IEEE 802.11n_20	149	14.7	≤30	PASS
	157	14.2	≤30	PASS
	165	13.6	≤30	PASS
IEEE 802.11n_40	151	14.57	≤30	PASS
	159	14.35	≤30	PASS
IEEE 802.11ac_20	149	14.65	≤30	PASS
	157	14.15	≤30	PASS
	165	13.24	≤30	PASS
IEEE 802.11ac_40	151	14.45	≤30	PASS
	159	14.46	≤30	PASS
IEEE 802.11ac_80	155	14.41	≤30	PASS

D4.Power Spectral Density

Test Result

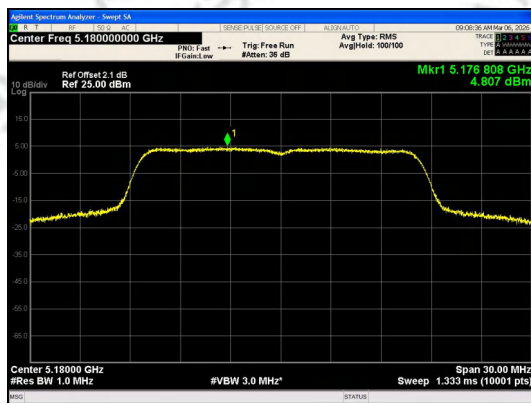
Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Duty Cycle Factor (dB)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	36	4.807	0.6793	5.486	11	PASS
	40	3.097	0.5046	3.602		PASS
	48	4.019	0.5046	4.524		PASS
IEEE 802.11n_20	36	3.597	0.5874	4.184		PASS
	40	2.243	0.5576	2.801		PASS
	48	3.320	0.5874	3.907		PASS
IEEE 802.11n_40	38	1.241	1.0674	2.308		PASS
	46	0.379	1.0668	1.446		PASS
IEEE 802.11ac_20	36	4.016	0.5611	4.577		PASS
	40	2.499	0.5874	3.086		PASS
	48	3.582	0.5904	4.172		PASS
IEEE 802.11ac_40	38	0.534	1.0579	1.592		PASS
	46	0.170	1.0579	1.228		PASS
IEEE 802.11ac_80	42	-3.669	1.9152	-1.754		PASS

Mode	Channel	Ant. 0 Meas PSD (dBm/500kHz)	Duty Cycle Factor (dB)	Ant. 0 Corr'd PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
IEEE 802.11a	149	0.331	0.655	0.986	30	PASS
	157	0.233	0.5046	0.738		PASS
	165	0.233	0.4789	0.712		PASS
IEEE 802.11n_20	149	1.298	0.5938	1.892		PASS
	157	-0.166	0.5909	0.425		PASS
	165	-0.208	0.5576	0.35		PASS
IEEE 802.11n_40	151	-2.906	1.0674	-1.839		PASS
	159	-2.785	1.0144	-1.771		PASS
IEEE 802.11ac_20	149	0.606	0.5899	1.196		PASS
	157	-0.044	0.5296	0.486		PASS
	165	-0.622	0.5611	-0.061		PASS
IEEE 802.11ac_40	151	-2.917	1.0568	-1.86		PASS
	159	-3.621	1.0568	-2.564		PASS
IEEE 802.11ac_80	155	-7.881	1.9064	-5.975		PASS

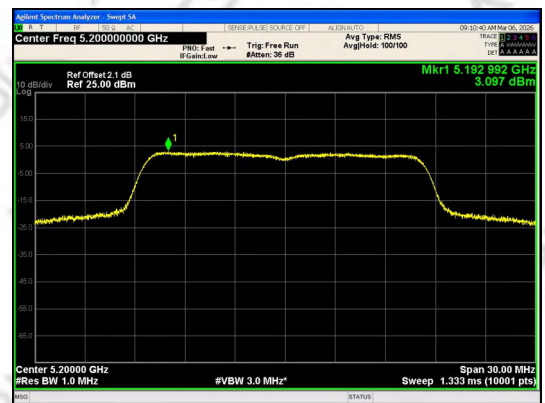
Note:Corr'd PSD=Meas PSD+Duty Cycle Factor (dB).

Duty cycle factor= $10 \cdot \log(1/\text{duty cycle})$

Test Graphs



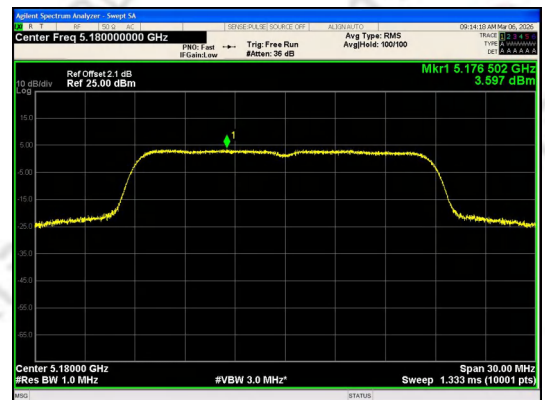
IEEE 802.11a_Channel 36_20MHz_Antenna 0



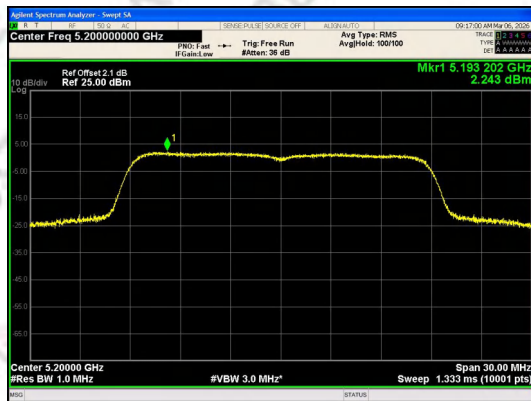
IEEE 802.11a_Channel 40_20MHz_Antenna 0



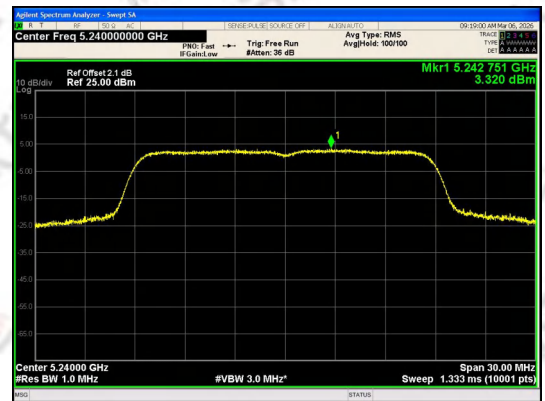
IEEE 802.11a_Channel 48_20MHz_Antenna 0



IEEE 802.11n_Channel 36_20MHz_Antenna 0



IEEE 802.11n_Channel 40_20MHz_Antenna 0



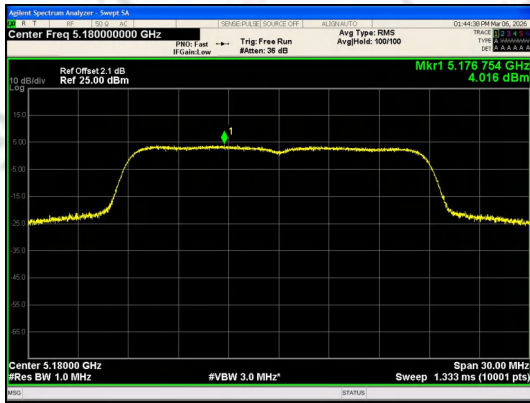
IEEE 802.11n_Channel 48_20MHz_Antenna 0



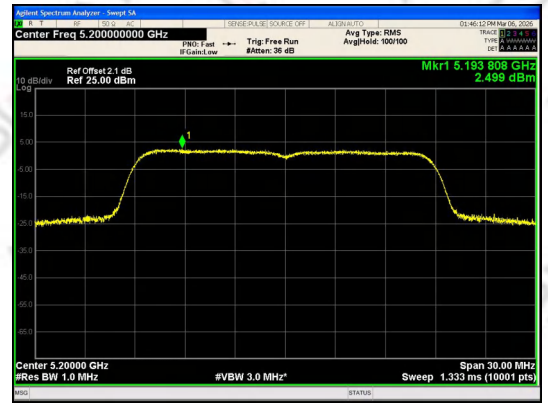
IEEE 802.11n_Channel 38_40MHz_Antenna 0



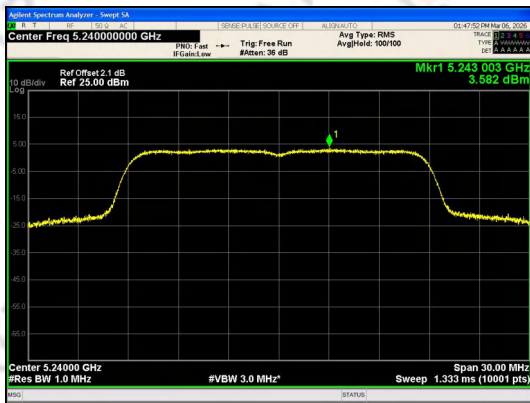
IEEE 802.11n_Channel 46_40MHz_Antenna 0



IEEE 802.11ac_Channel 36_20MHz_Antenna 0



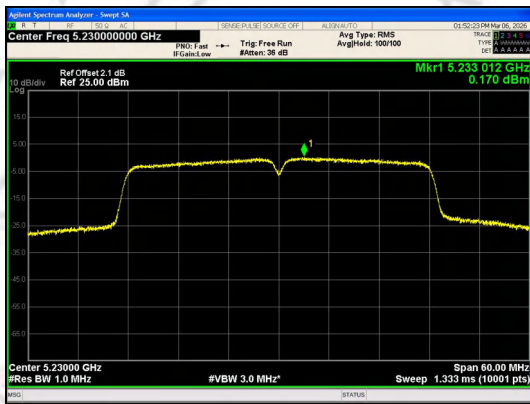
IEEE 802.11ac_Channel 40_20MHz_Antenna 0



IEEE 802.11ac_Channel 48_20MHz_Antenna 0



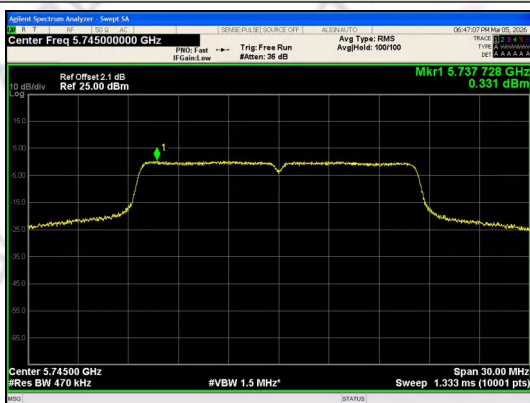
IEEE 802.11ac_Channel 38_40MHz_Antenna 0



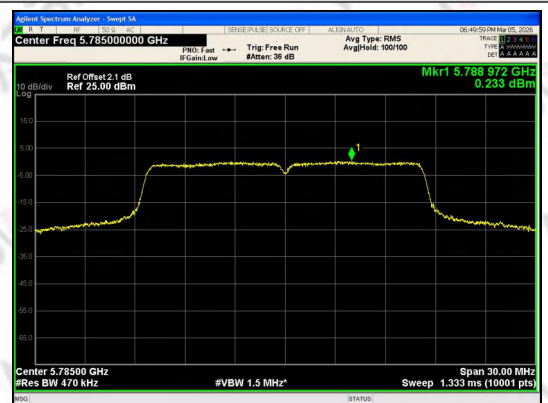
IEEE 802.11ac_Channel 46_40MHz_Antenna 0



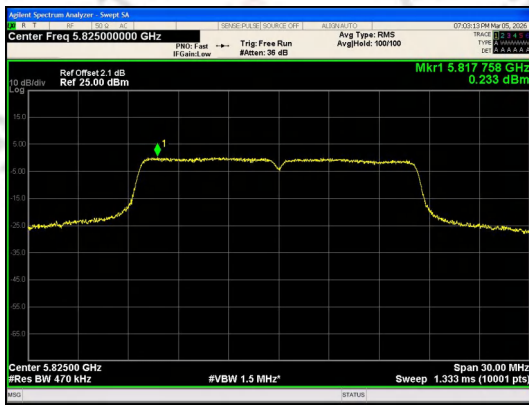
IEEE 802.11ac_Channel 42_80MHz_Antenna 0



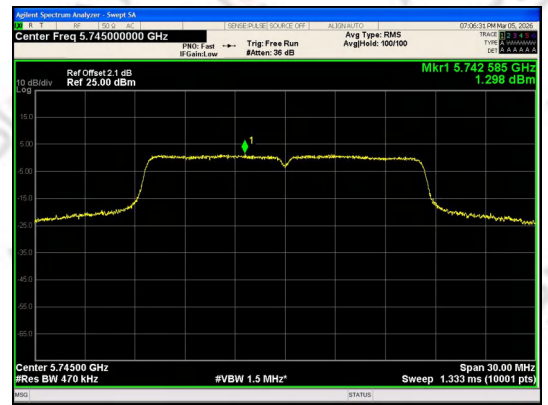
IEEE 802.11a_Channel 149_20MHz_Antenna 0



IEEE 802.11a_Channel 157_20MHz_Antenna 0



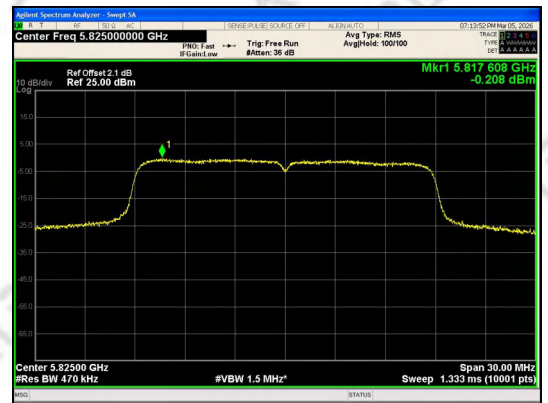
IEEE 802.11a_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 149_20MHz_Antenna 0



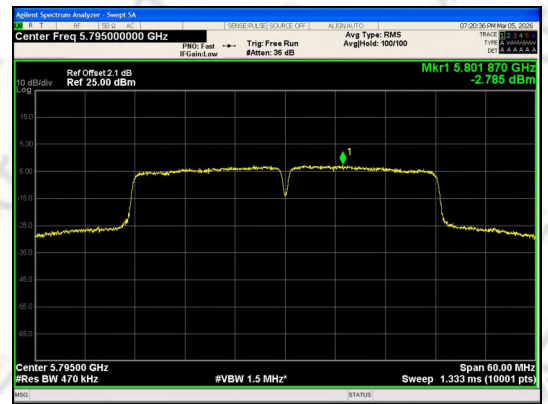
IEEE 802.11n_Channel 157_20MHz_Antenna 0



IEEE 802.11n_Channel 165_20MHz_Antenna 0



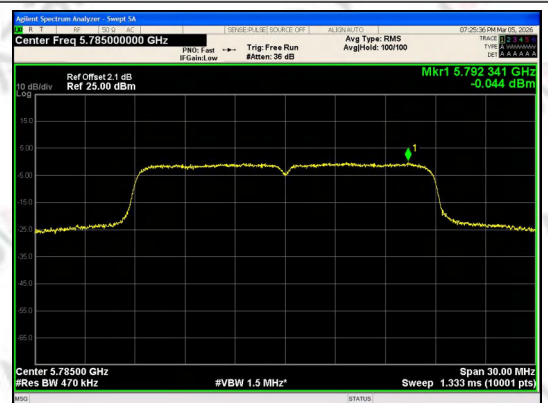
IEEE 802.11n_Channel 151_40MHz_Antenna 0



IEEE 802.11n_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 149_20MHz_Antenna 0



IEEE 802.11ac_Channel 157_20MHz_Antenna 0



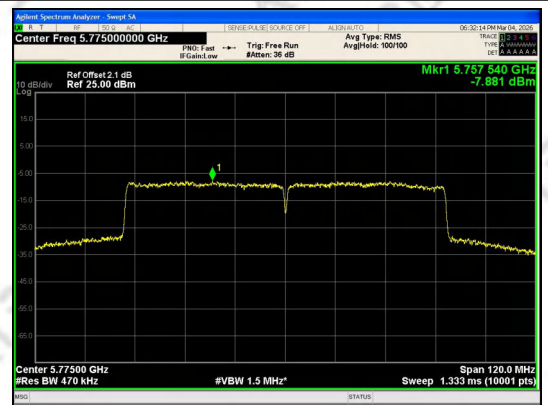
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

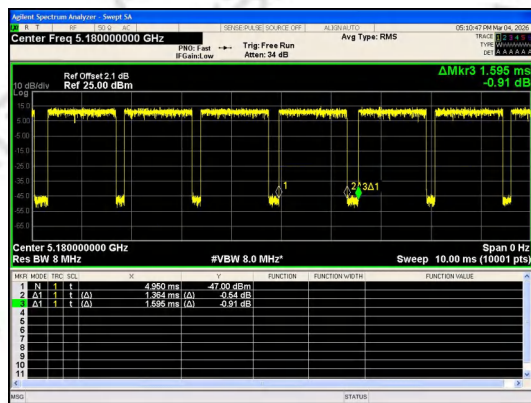
D5.Duty Cycle

Test Result

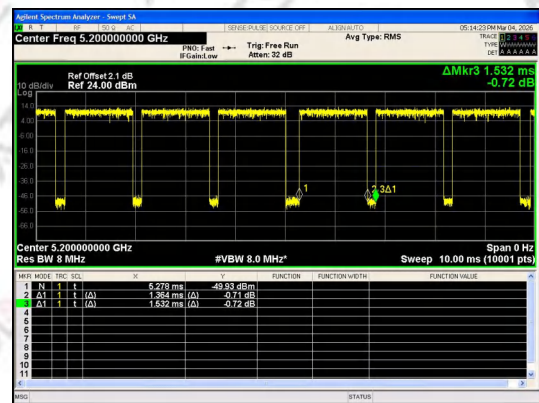
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11a	6	36	0	1.364	1.595	85.52	0.8552	0.6793
		40		1.364	1.532	89.03	0.8903	0.5046
		48		1.364	1.532	89.03	0.8903	0.5046
IEEE 802.11n_20		36		1.153	1.320	87.35	0.8735	0.5874
		40		1.153	1.311	87.95	0.8795	0.5576
		48		1.153	1.320	87.35	0.8735	0.5874
IEEE 802.11n_40		38		0.574	0.734	78.21	0.7821	1.0674
		46		0.575	0.735	78.22	0.7822	1.0668
IEEE 802.11ac_20	MCS 0	36		1.159	1.319	87.88	0.8788	0.5611
		40		1.160	1.328	87.35	0.8735	0.5874
		48		1.159	1.327	87.29	0.8729	0.5904
IEEE 802.11ac_40		38		0.582	0.742	78.38	0.7838	1.0579
		46		0.582	0.742	78.38	0.7838	1.0579
IEEE 802.11ac_80		42		0.290	0.450	64.34	0.6434	1.9152

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11a	6	149	0	1.364	1.586	86.00	0.8600	0.655
		157		1.364	1.532	89.03	0.8903	0.5046
		165		1.364	1.523	89.56	0.8956	0.4789
IEEE 802.11n_20		149		1.151	1.320	87.22	0.8722	0.5938
		157		1.152	1.320	87.28	0.8728	0.5909
		165		1.153	1.311	87.95	0.8795	0.5576
IEEE 802.11n_40		151		0.574	0.734	78.21	0.7821	1.0674
		159		0.574	0.725	79.17	0.7917	1.0144
IEEE 802.11ac_20	MCS 0	149		1.159	1.328	87.30	0.8730	0.5899
		157		1.159	1.310	88.52	0.8852	0.5296
		165		1.159	1.319	87.88	0.8788	0.5611
IEEE 802.11ac_40		151		0.582	0.743	78.40	0.7840	1.0568
		159		0.582	0.743	78.40	0.7840	1.0568
IEEE 802.11ac_80		155		0.290	0.450	64.47	0.6447	1.9064

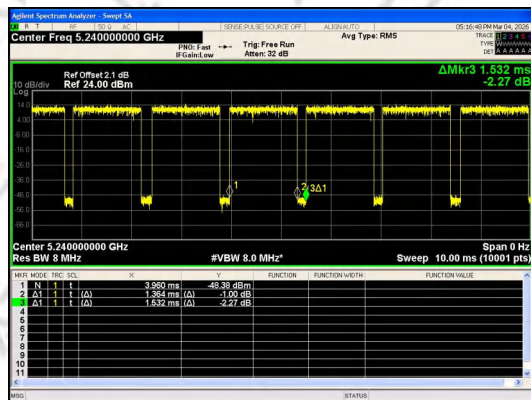
Test Graphs



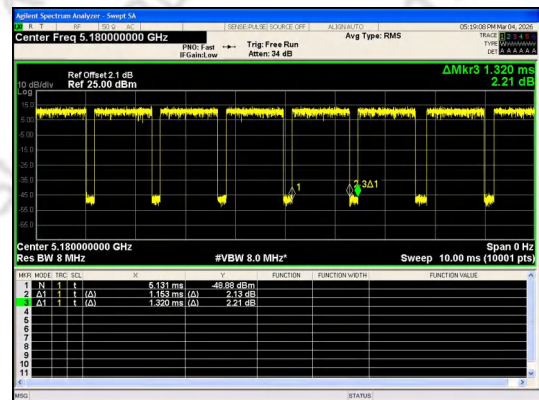
IEEE 802.11a_20MHz_Channel 36



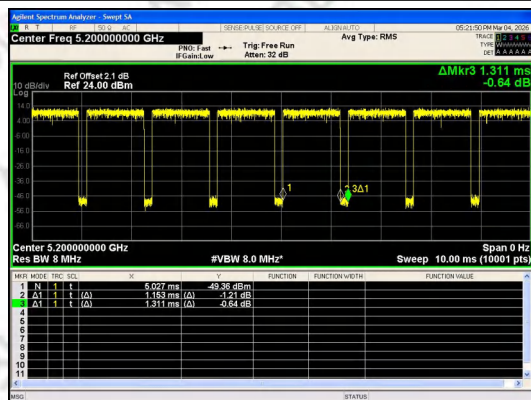
IEEE 802.11a_20MHz_Channel 40



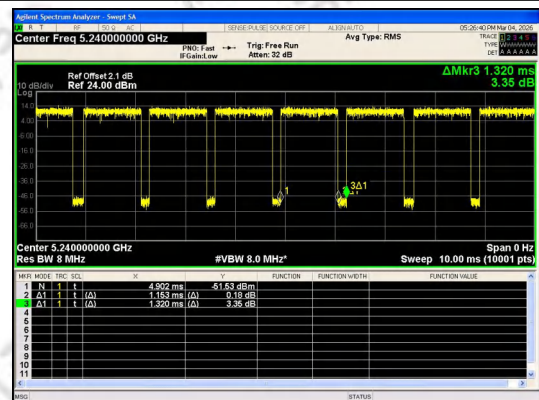
IEEE 802.11a_20MHz_Channel 48



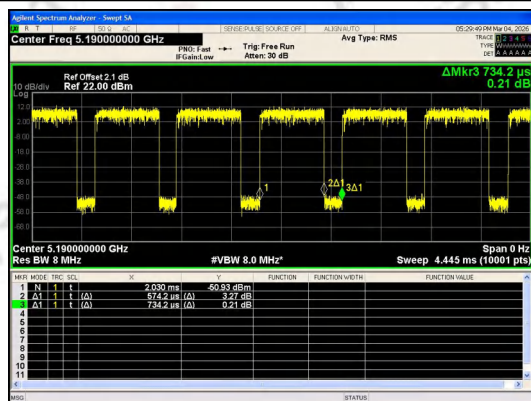
IEEE 802.11n_20MHz_Channel 36



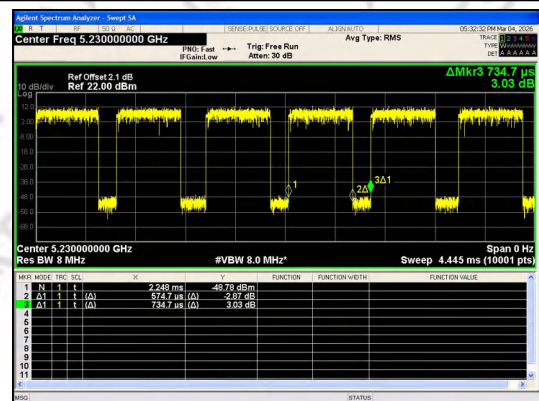
IEEE 802.11n_20MHz_Channel 40



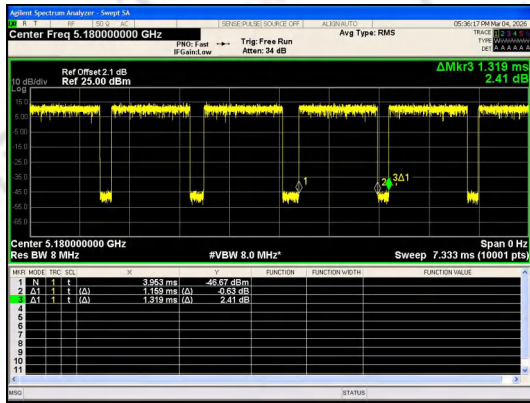
IEEE 802.11n_20MHz_Channel 48



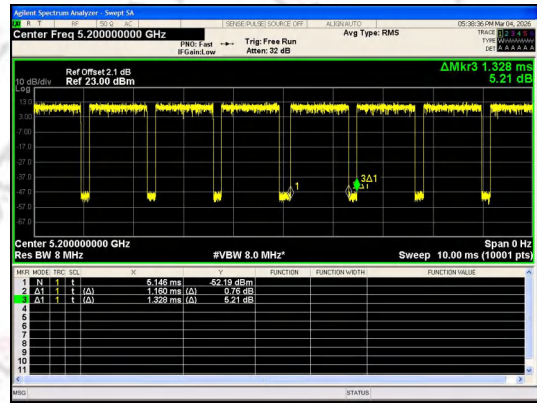
IEEE 802.11n_40MHz_Channel 38



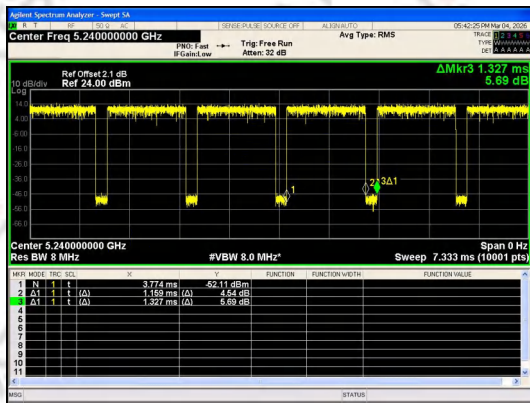
IEEE 802.11n_40MHz_Channel 46



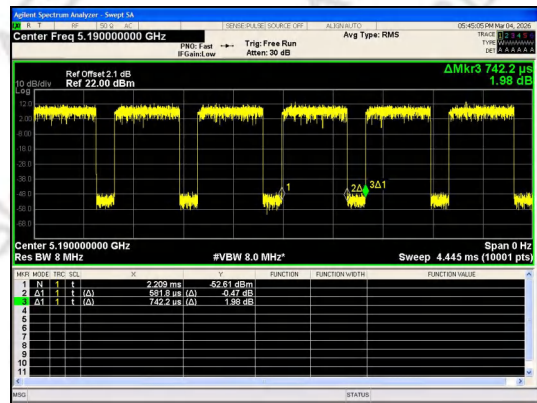
IEEE 802.11ac 20MHz Channel 36



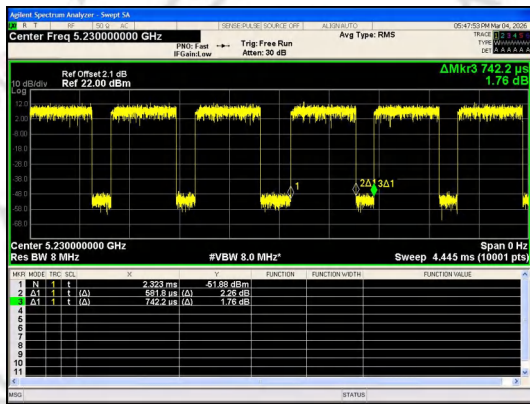
IEEE 802.11ac 20MHz Channel 40



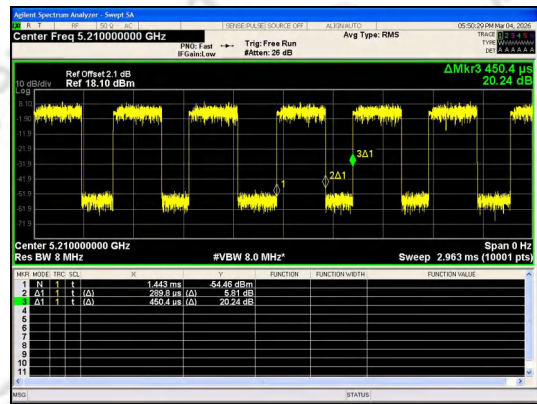
IEEE 802.11ac 20MHz Channel 48



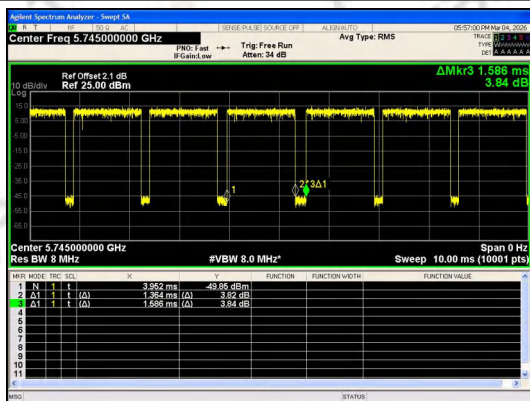
IEEE 802.11ac 40MHz Channel 38



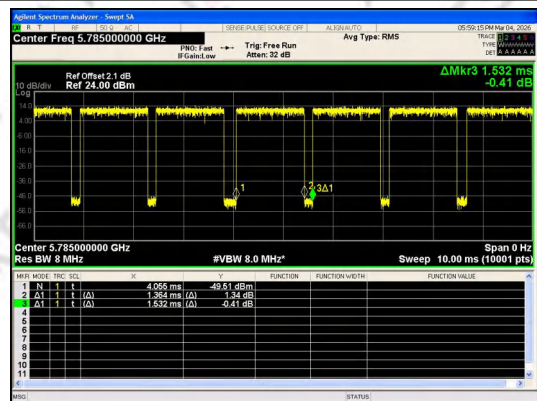
IEEE 802.11ac 40MHz Channel 46



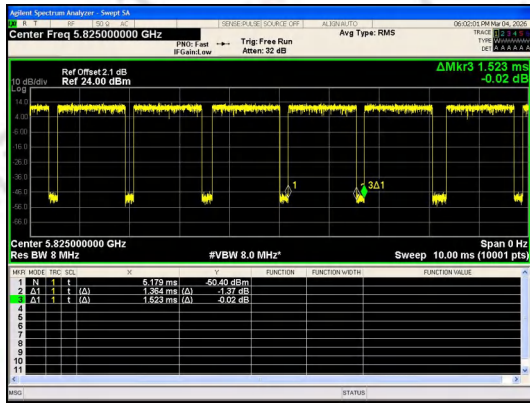
IEEE 802.11ac 80MHz Channel 42



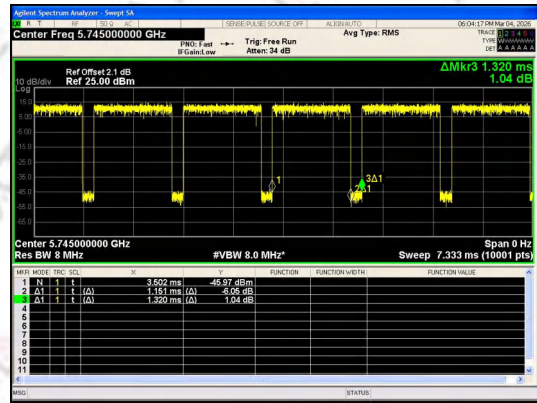
IEEE 802.11a 20MHz Channel 149



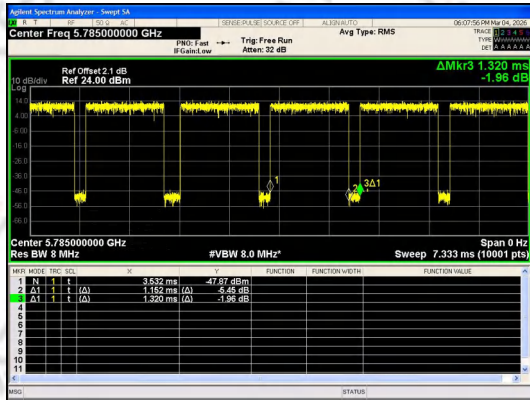
IEEE 802.11a 20MHz Channel 157



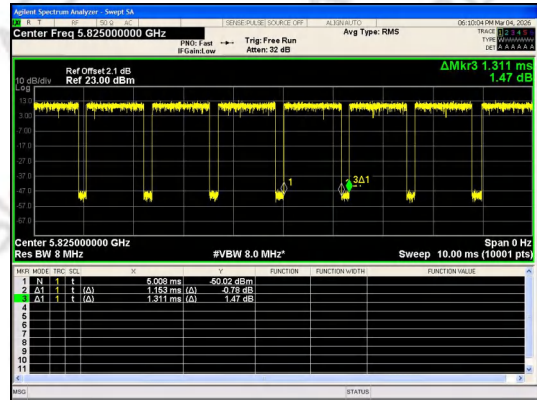
IEEE 802.11a 20MHz_Channel 165



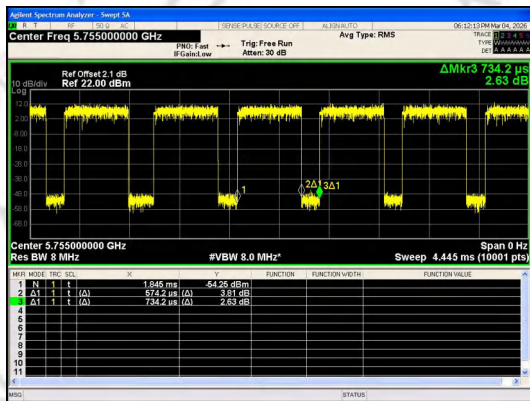
IEEE 802.11n 20MHz_Channel 149



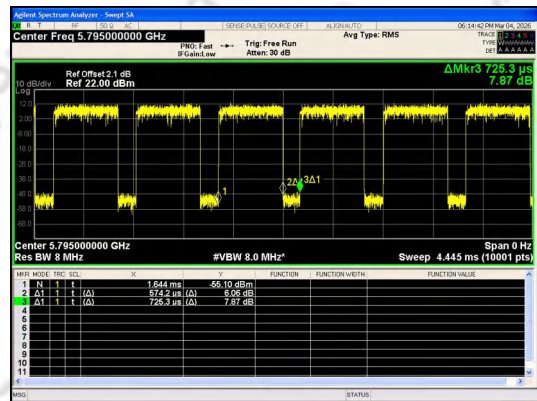
IEEE 802.11n 20MHz_Channel 157



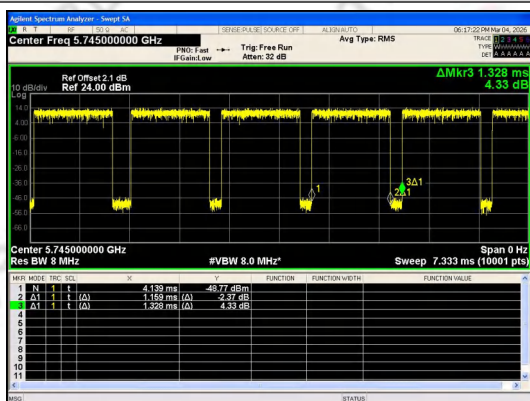
IEEE 802.11n 20MHz_Channel 165



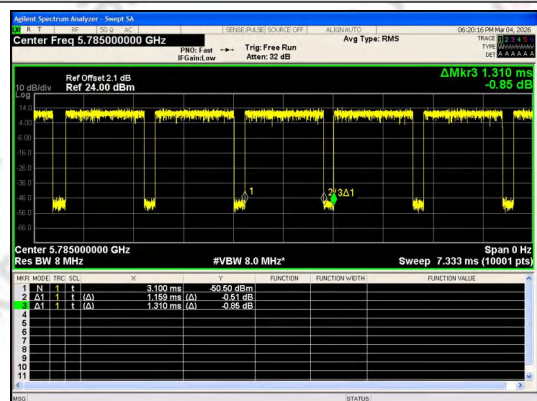
IEEE 802.11n 40MHz_Channel 151



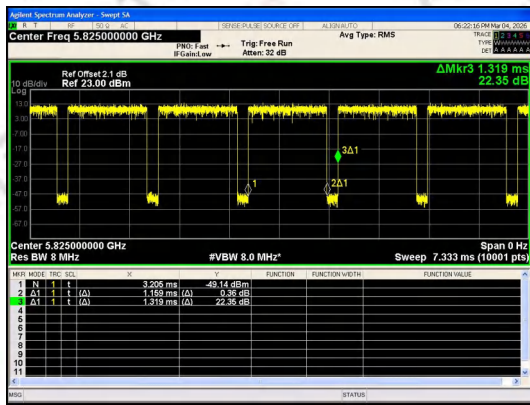
IEEE 802.11n 40MHz_Channel 159



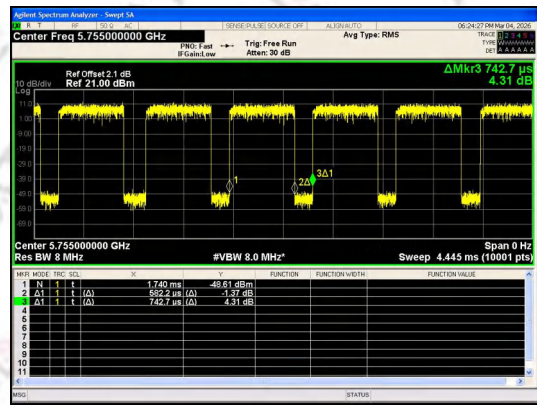
IEEE 802.11ac 20MHz_Channel 149



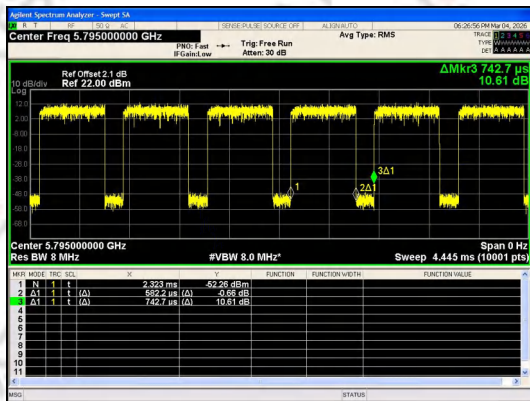
IEEE 802.11ac 20MHz_Channel 157



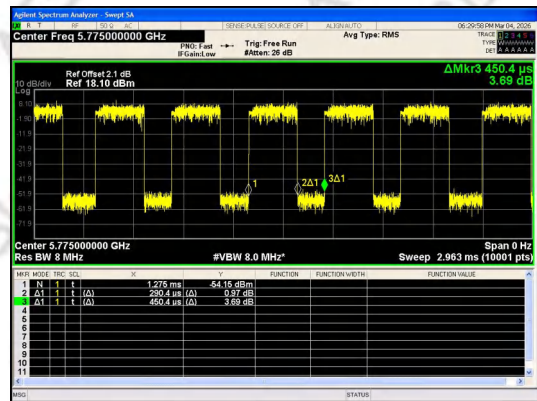
IEEE 802.11ac 20MHz_Channel 165



IEEE 802.11ac 40MHz_Channel 151



IEEE 802.11ac 40MHz_Channel 159



IEEE 802.11ac 80MHz_Channel 155

END