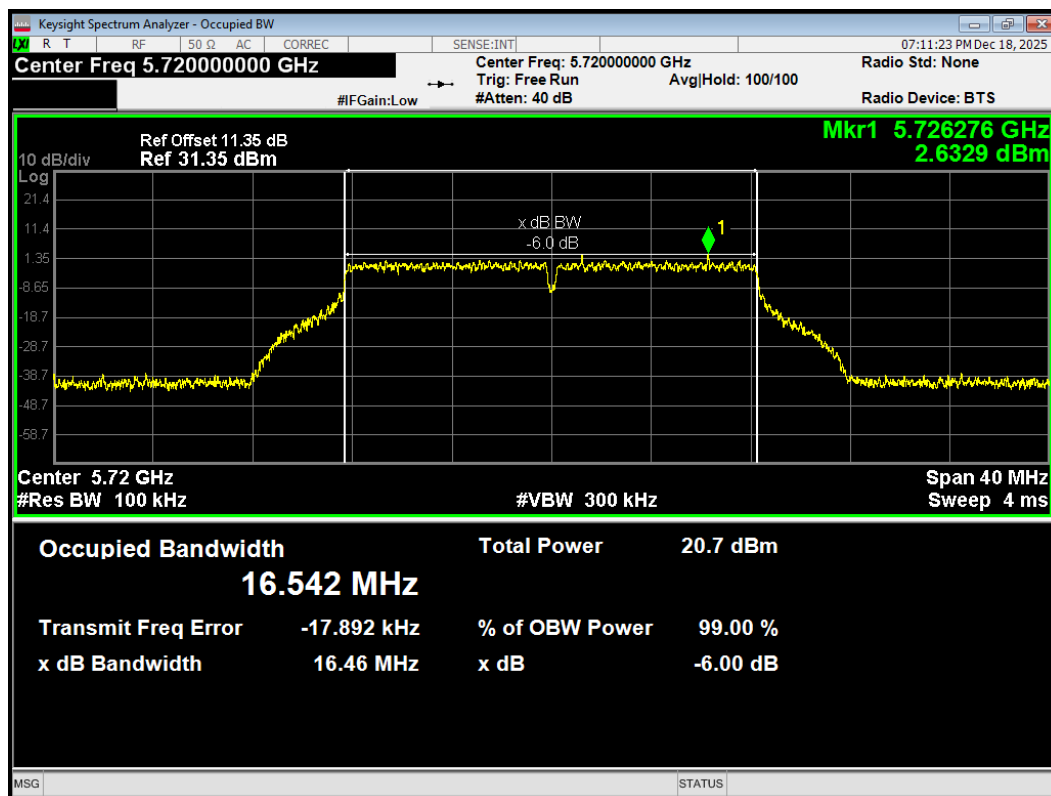


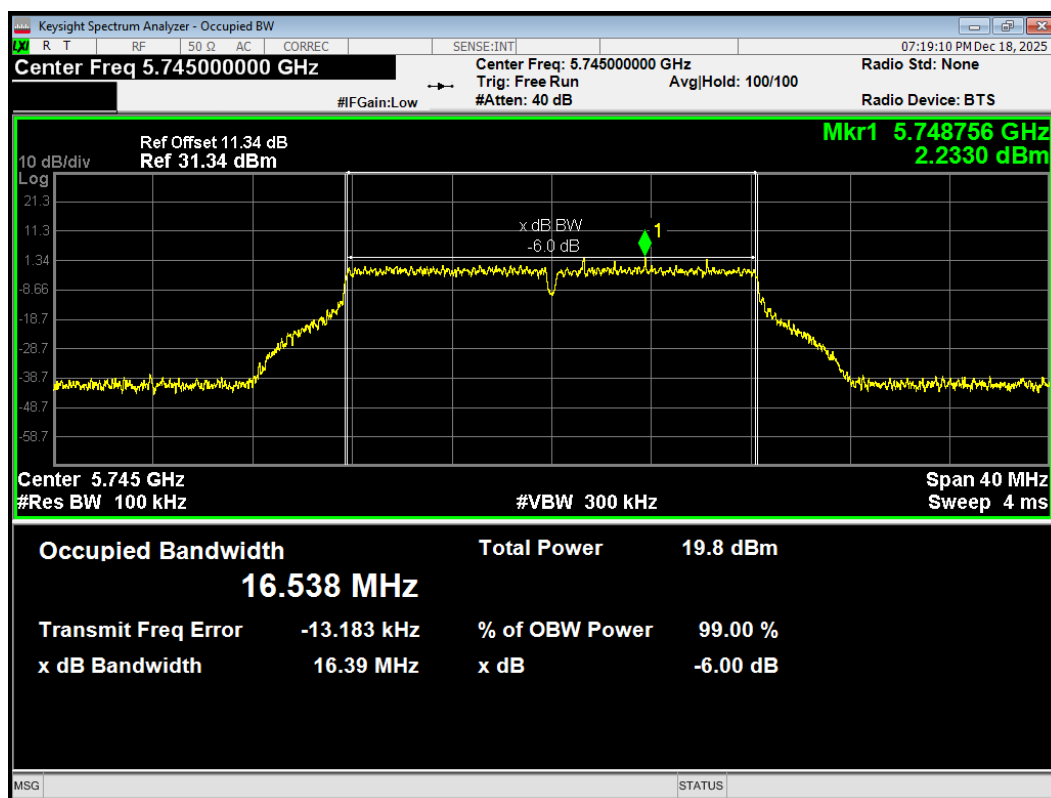
Minimum 6 dB bandwidth

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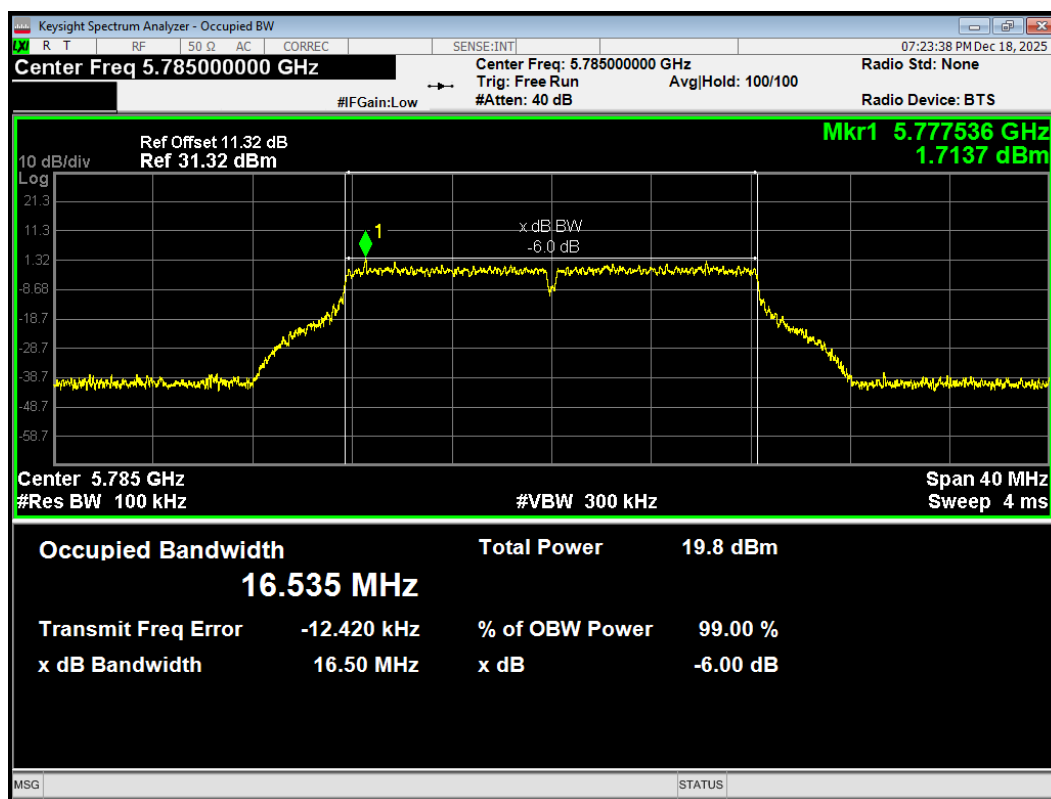
-6dB Bandwidth 802.11a 5720MHz



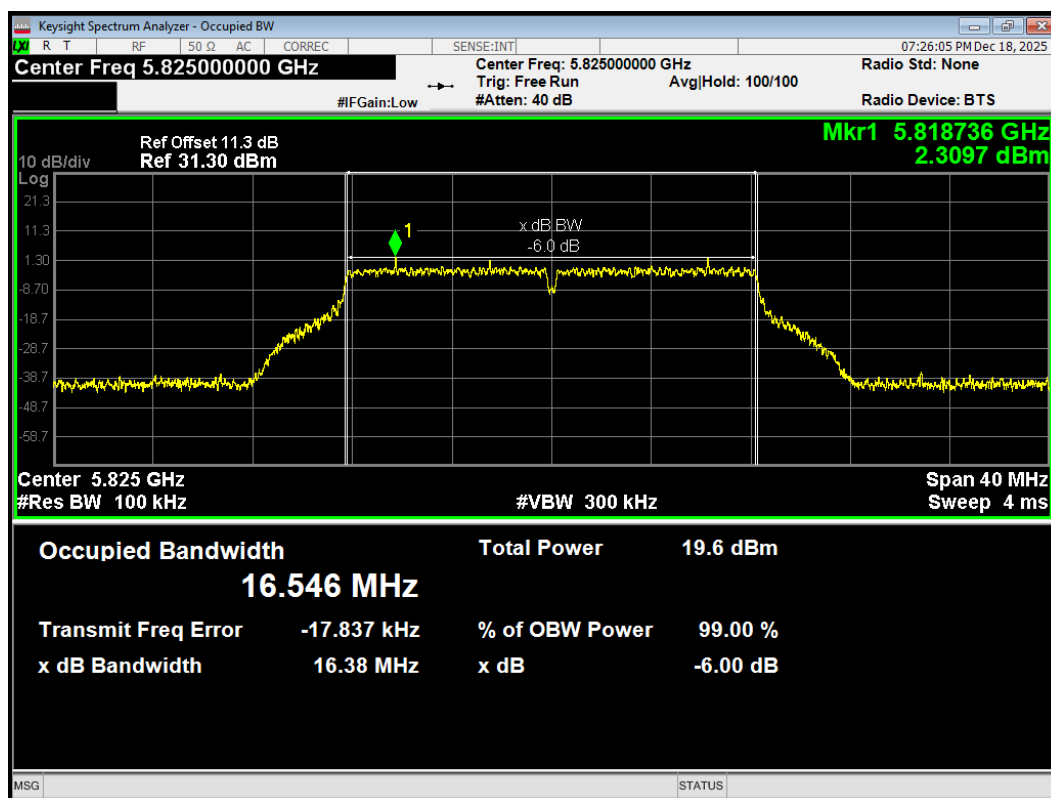
-6dB Bandwidth 802.11a 5745MHz



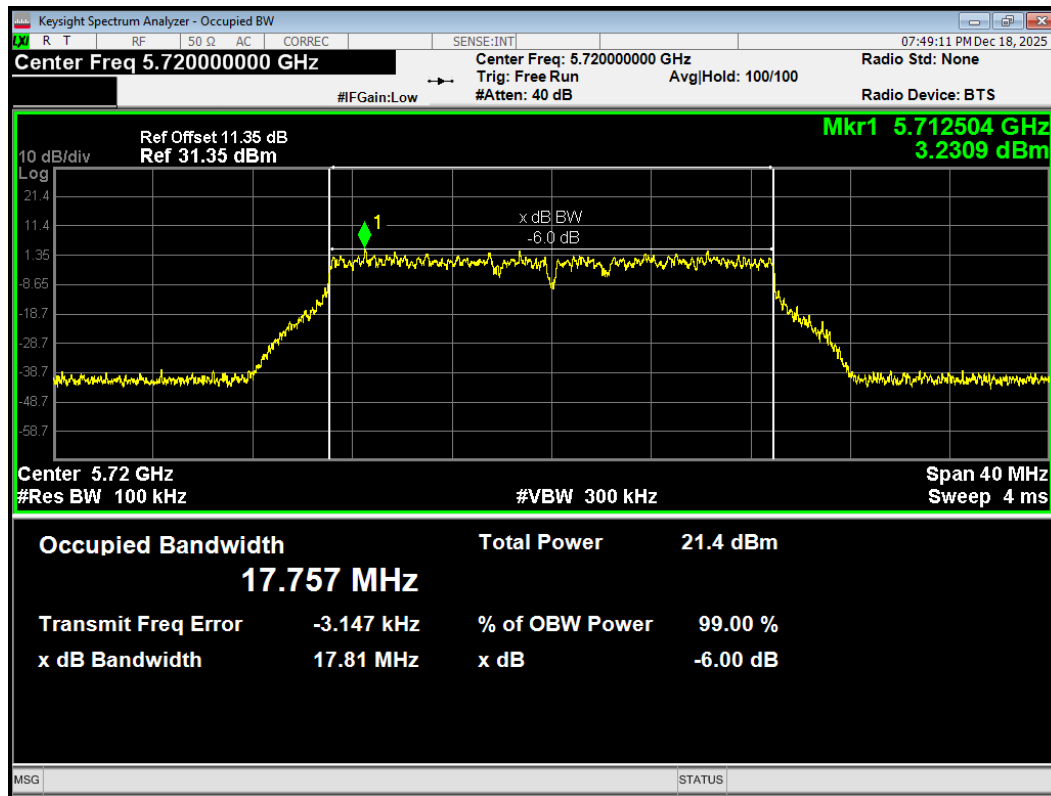
-6dB Bandwidth 802.11a 5785MHz



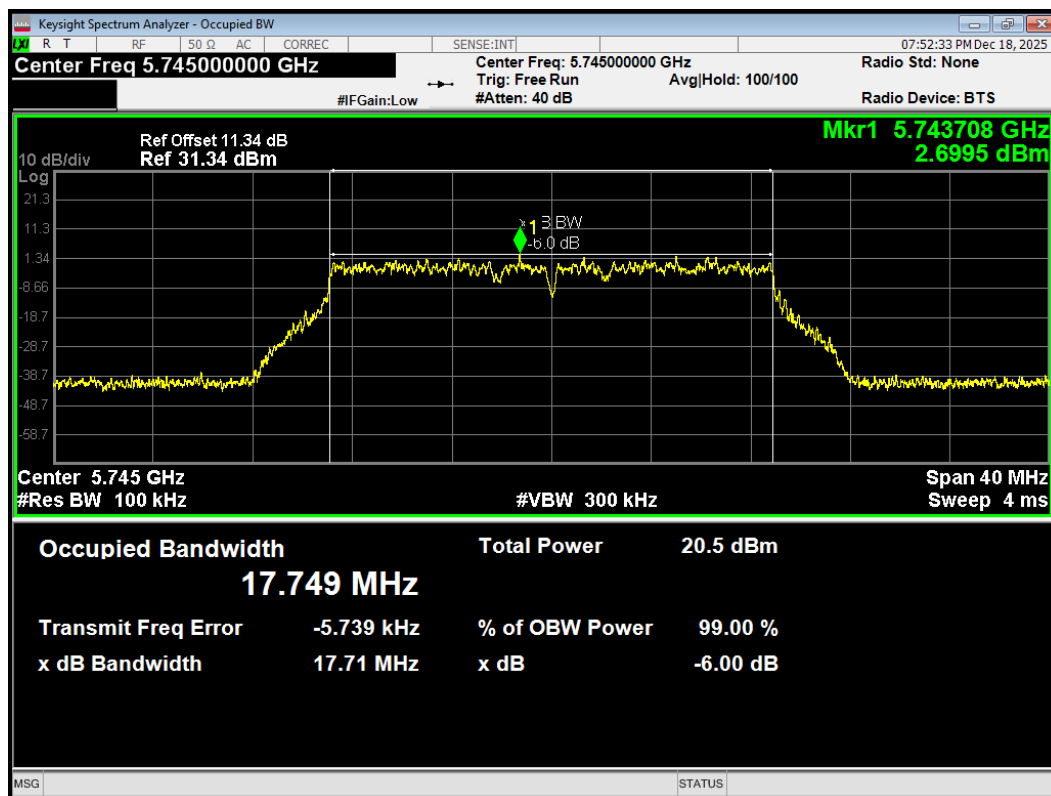
-6dB Bandwidth 802.11a 5825MHz



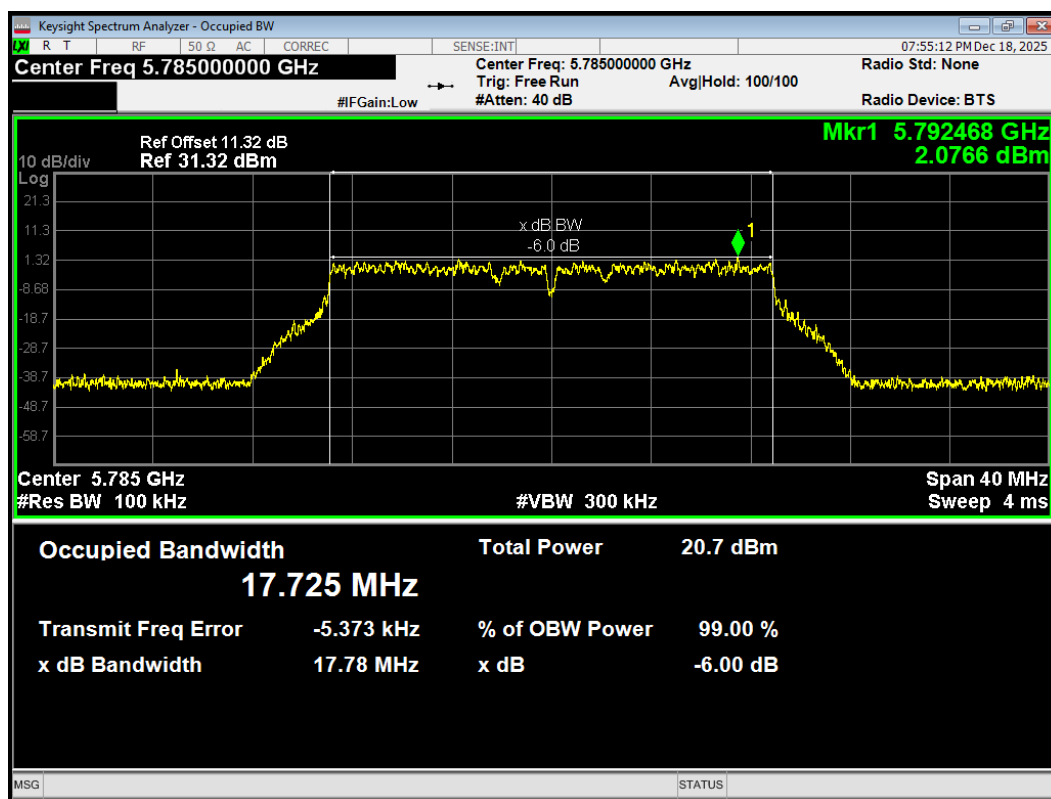
-6dB Bandwidth 802.11ac(VHT20) 5720MHz



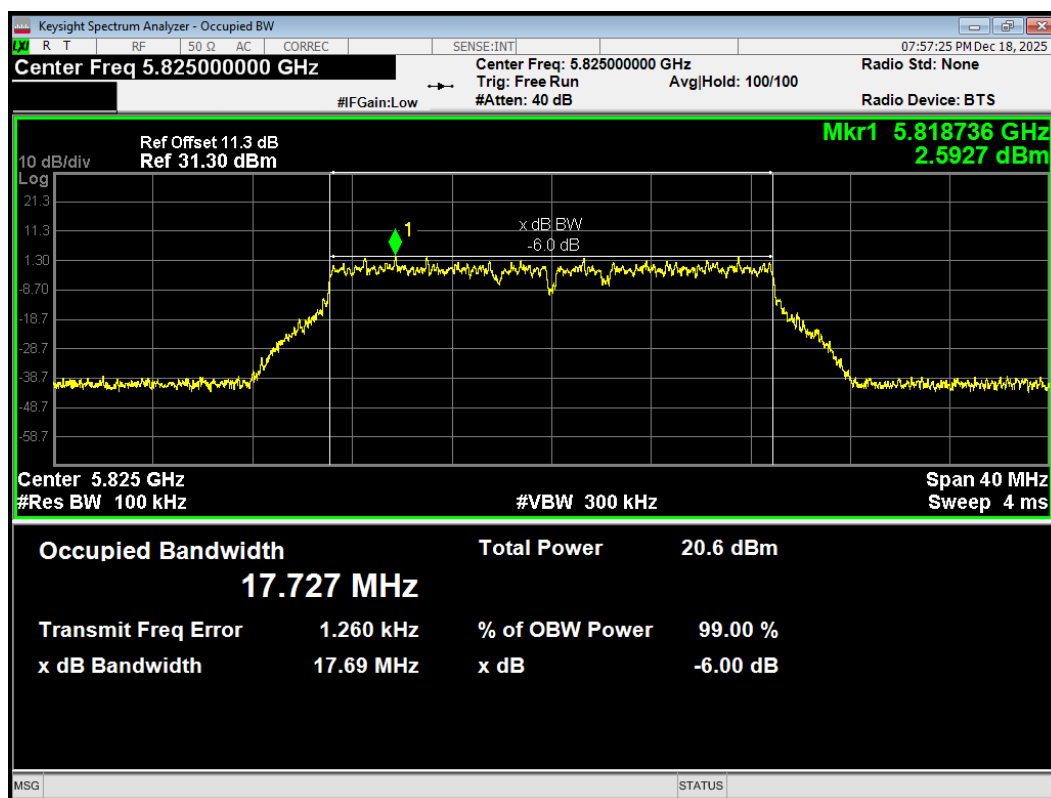
-6dB Bandwidth 802.11ac(VHT20) 5745MHz



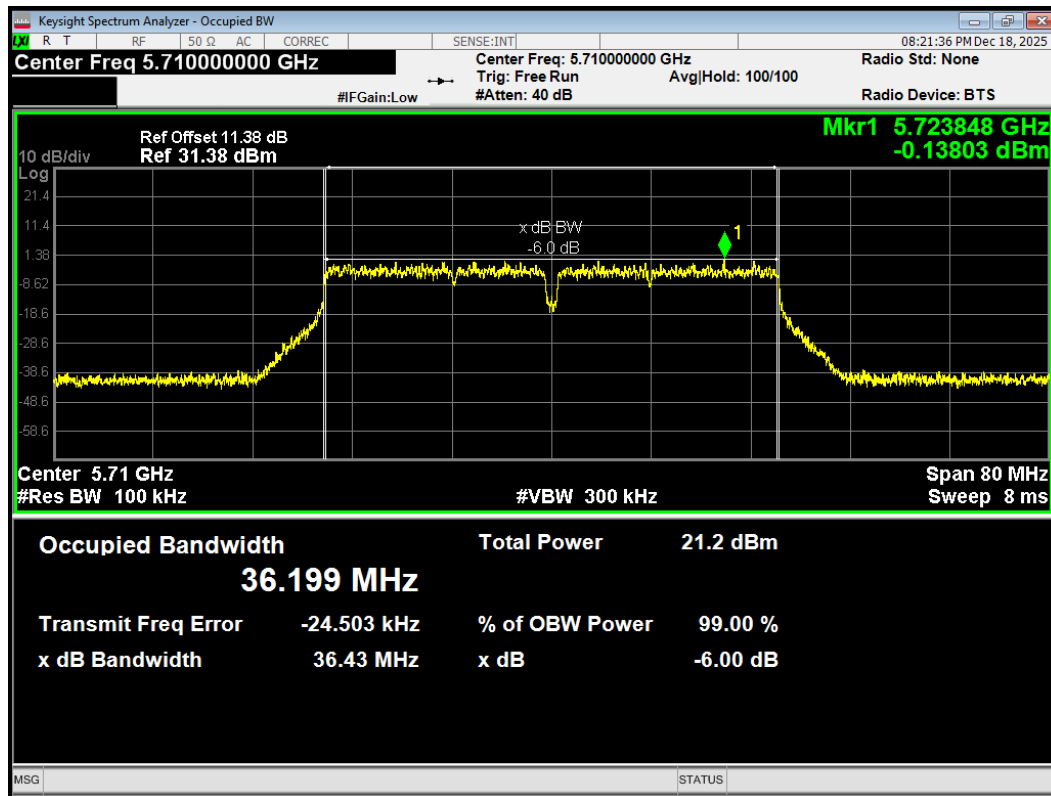
-6dB Bandwidth 802.11ac(VHT20) 5785MHz



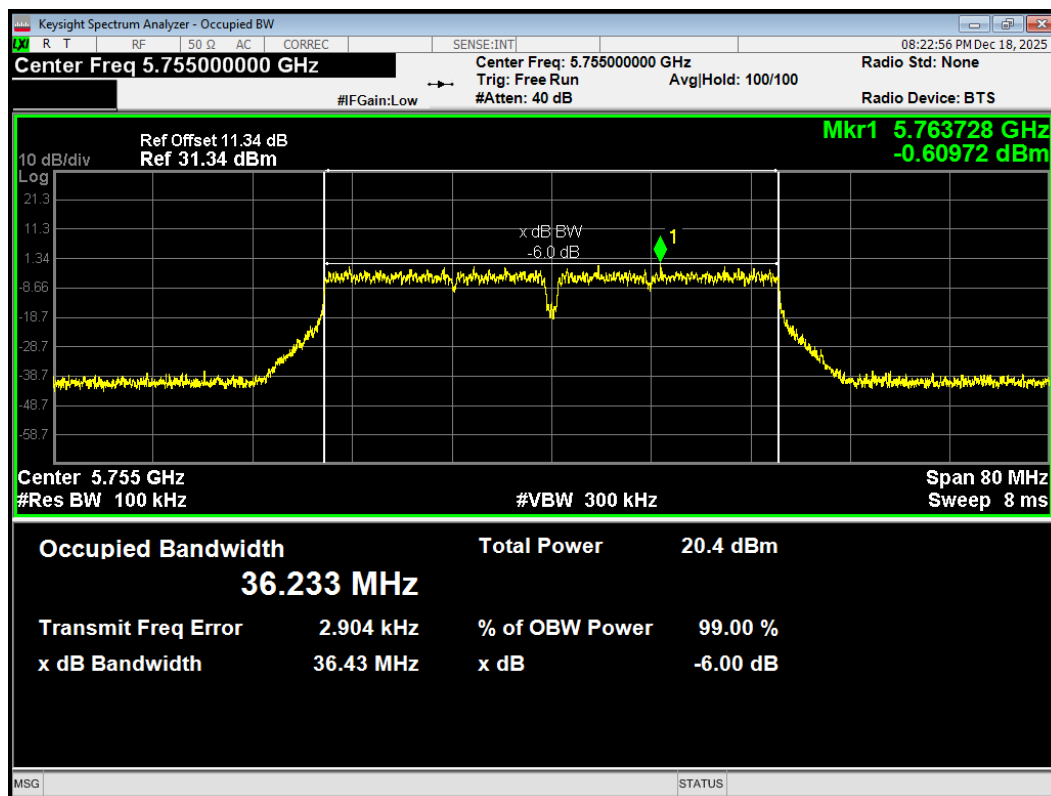
-6dB Bandwidth 802.11ac(VHT20) 5825MHz



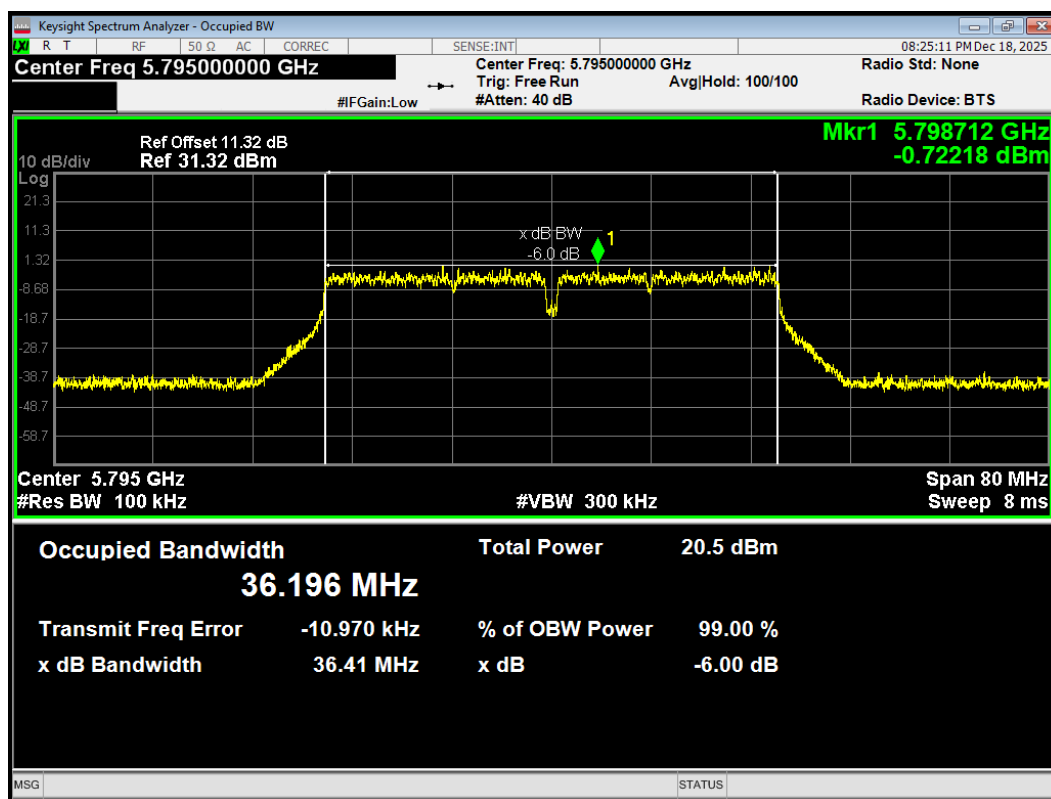
-6dB Bandwidth 802.11ac(VHT40) 5710MHz



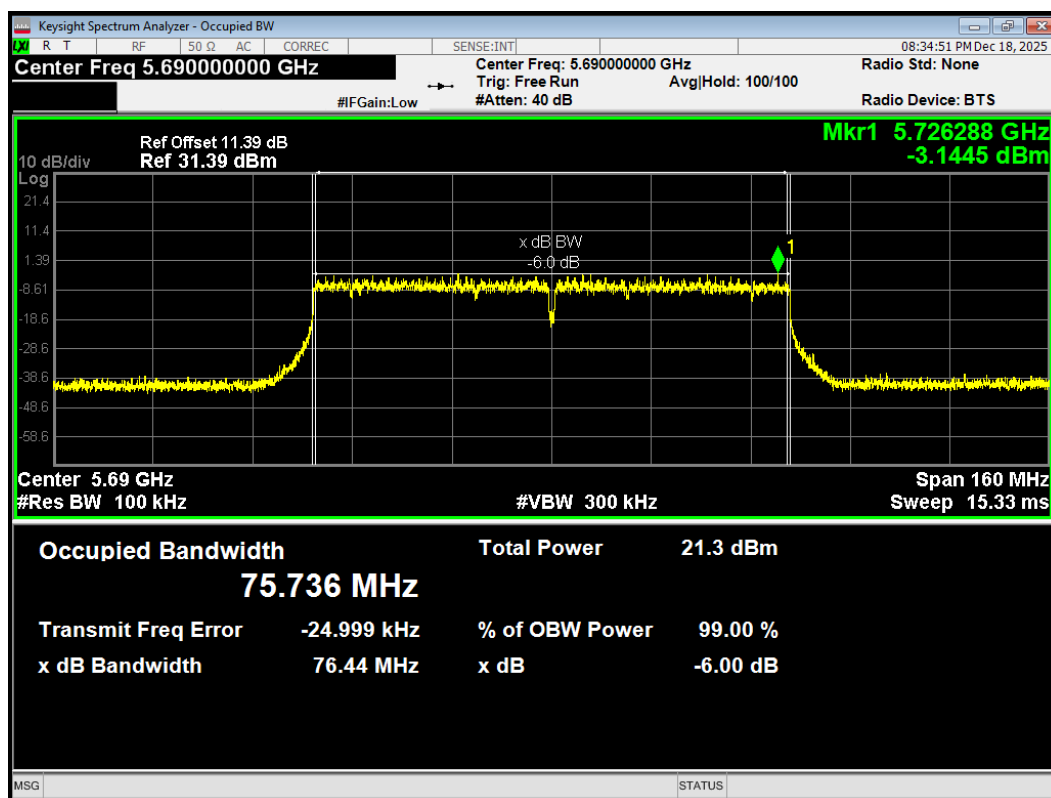
-6dB Bandwidth 802.11ac(VHT40) 5755MHz



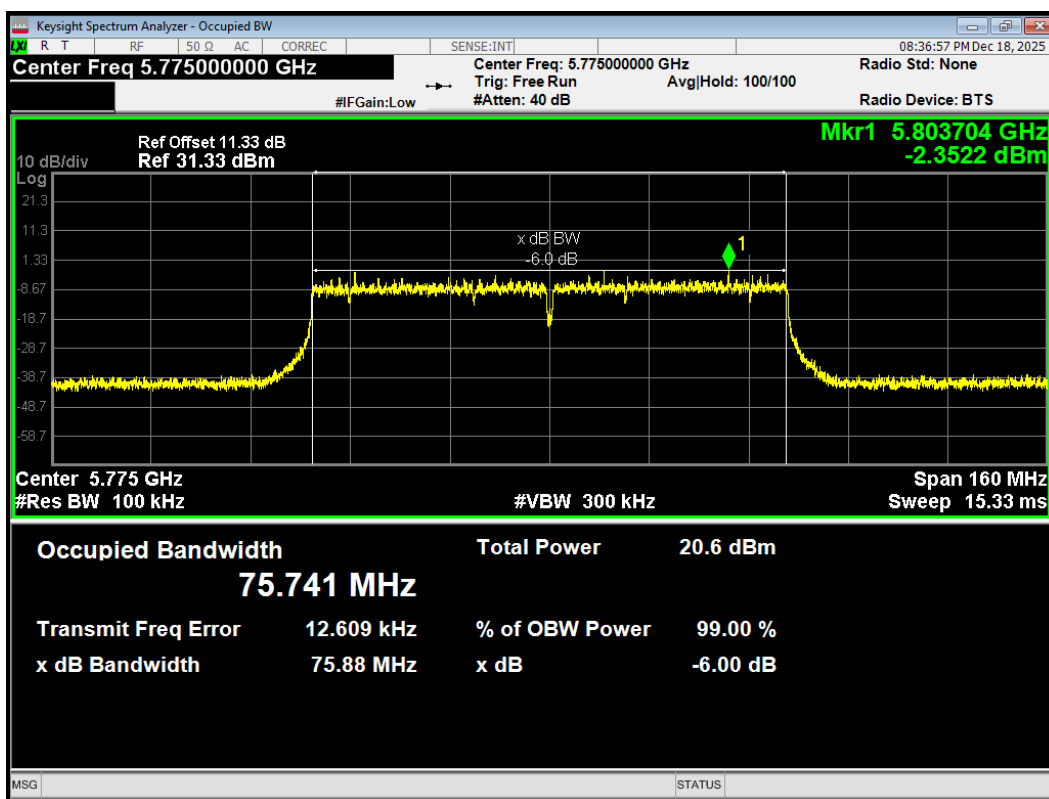
-6dB Bandwidth 802.11ac(VHT40) 5795MHz



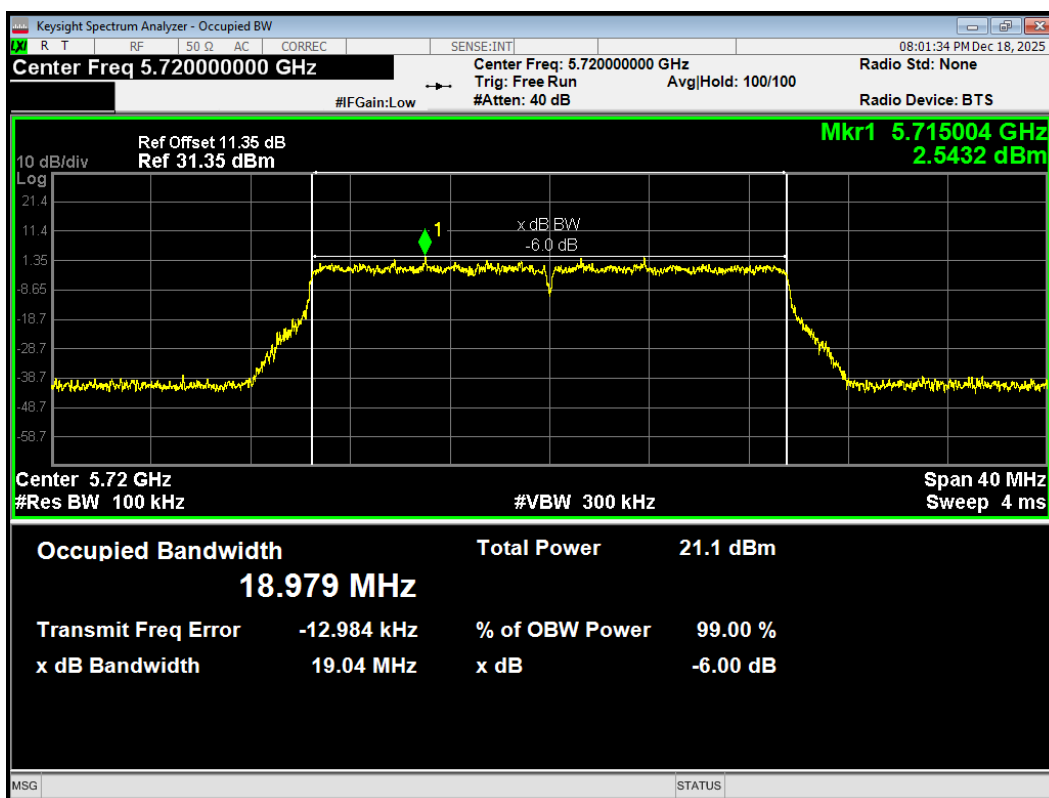
-6dB Bandwidth 802.11ac(VHT80) 5690MHz



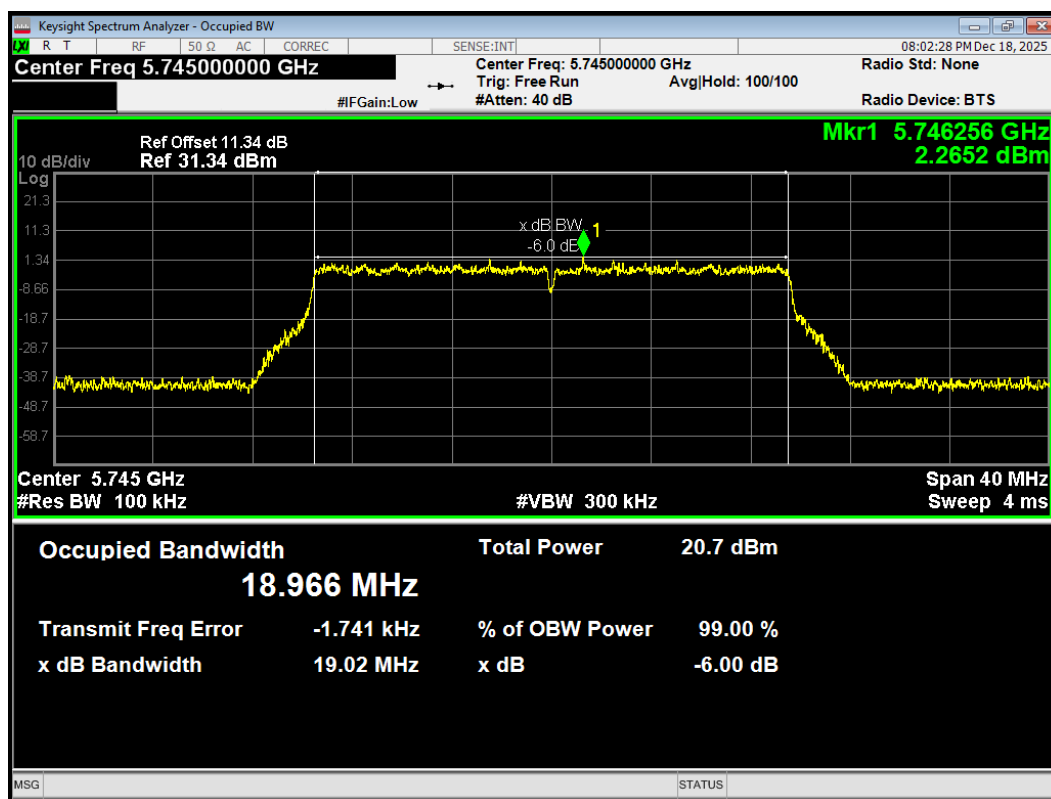
-6dB Bandwidth 802.11ac(VHT80) 5775MHz



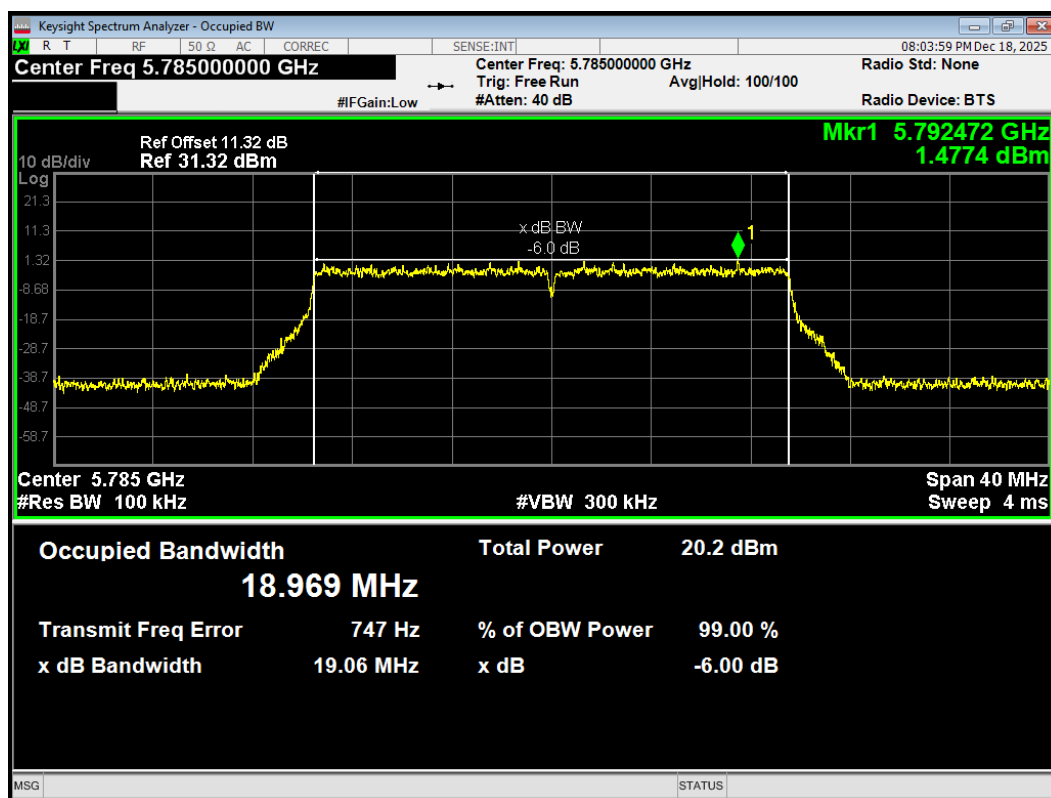
-6dB Bandwidth 802.11ax(HE20) 5720MHz



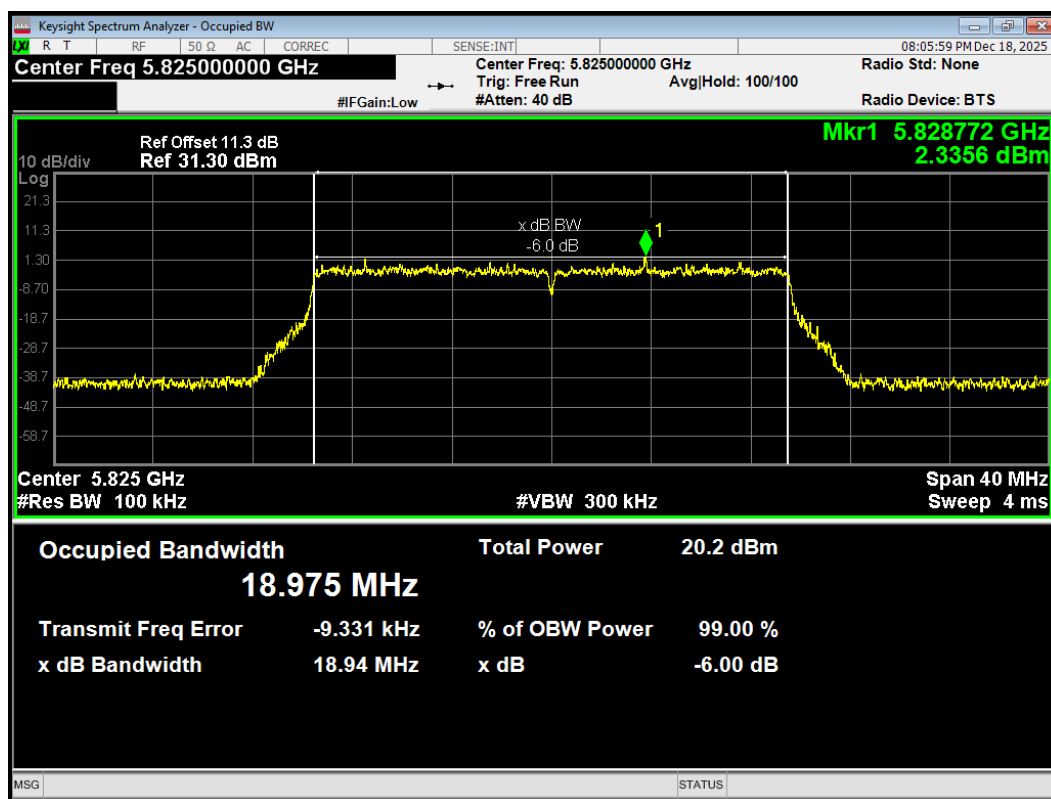
-6dB Bandwidth 802.11ax(HE20) 5745MHz



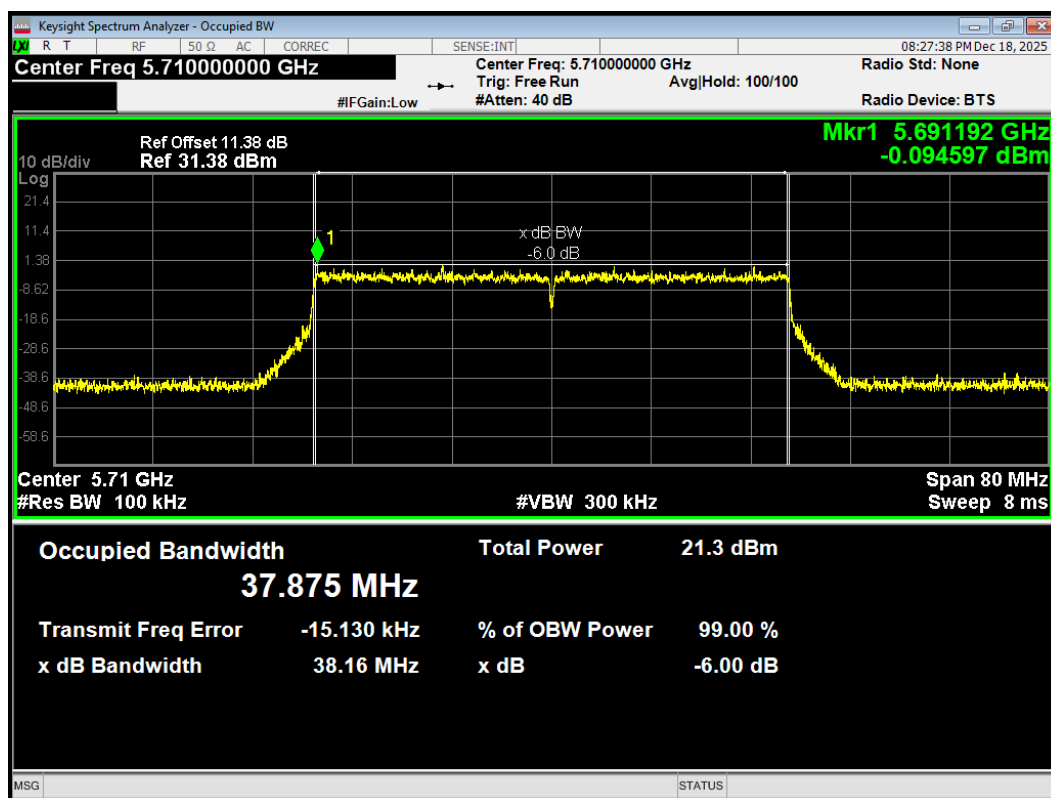
-6dB Bandwidth 802.11ax(HE20) 5785MHz



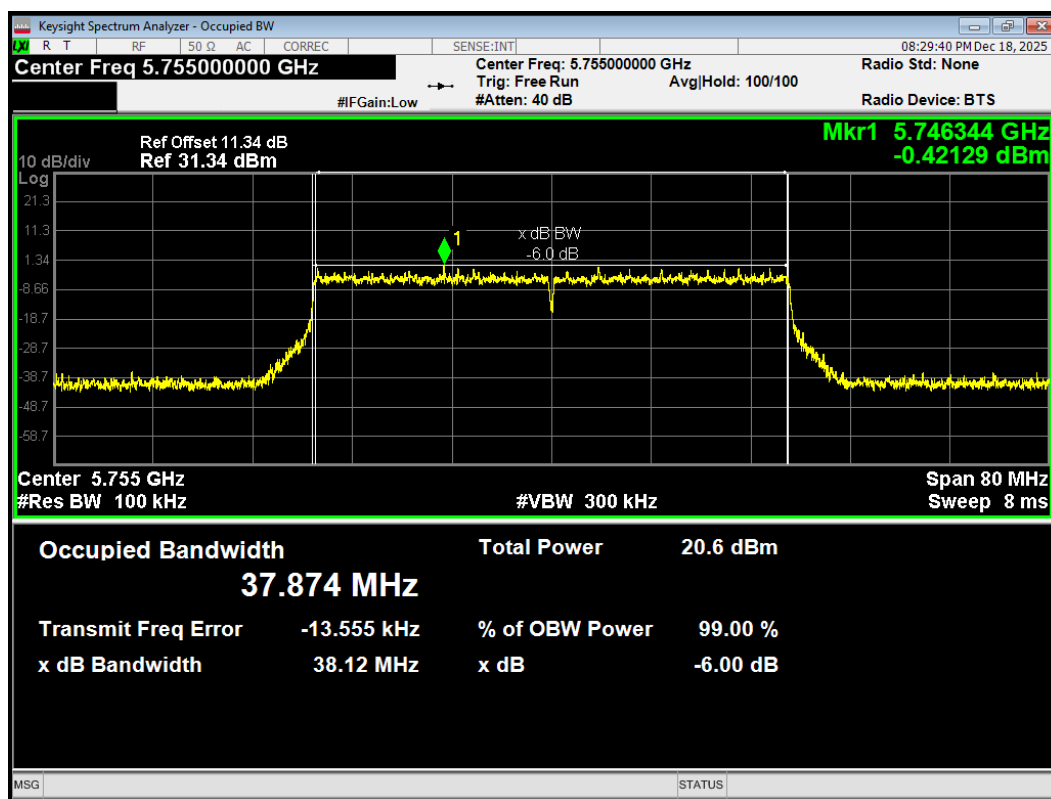
-6dB Bandwidth 802.11ax(HE20) 5825MHz



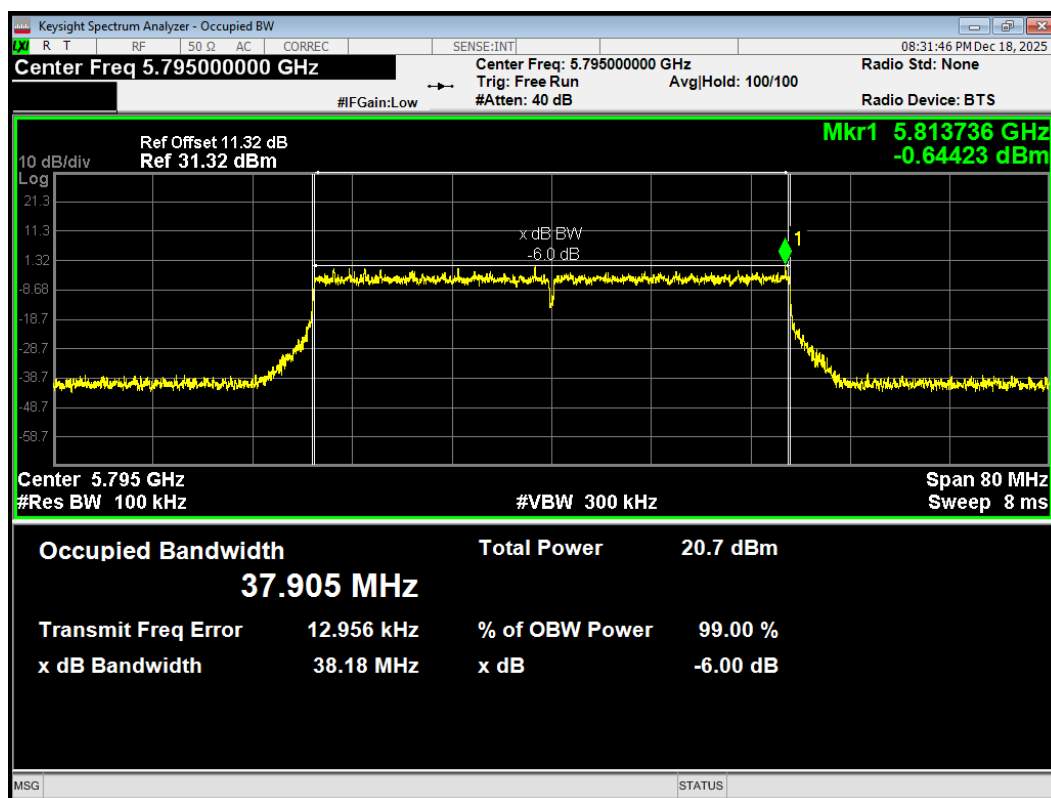
-6dB Bandwidth 802.11ax(HE40) 5710MHz



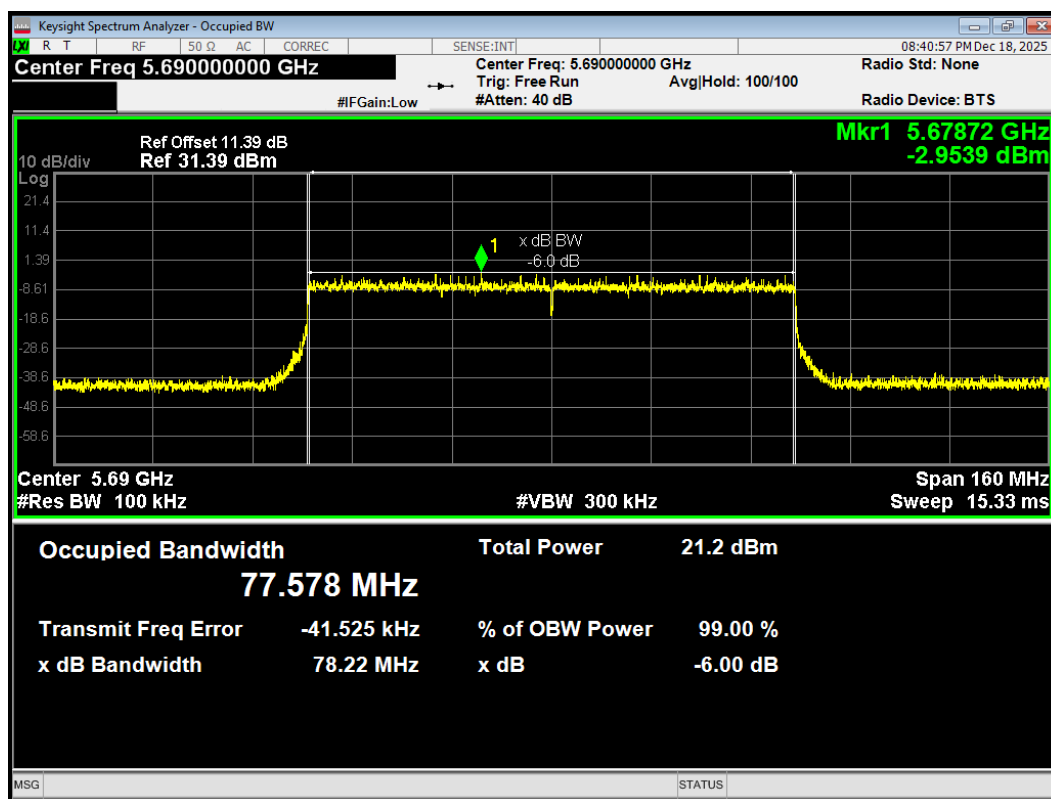
-6dB Bandwidth 802.11ax(HE40) 5755MHz



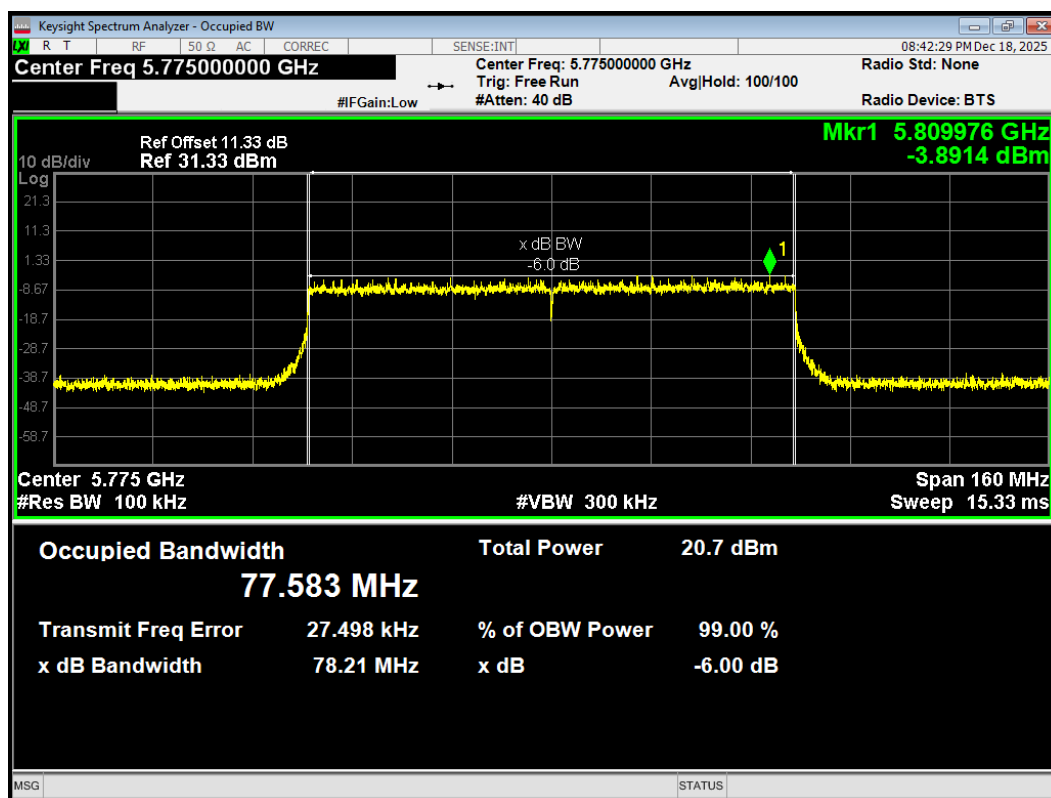
-6dB Bandwidth 802.11ax(HE40) 5795MHz



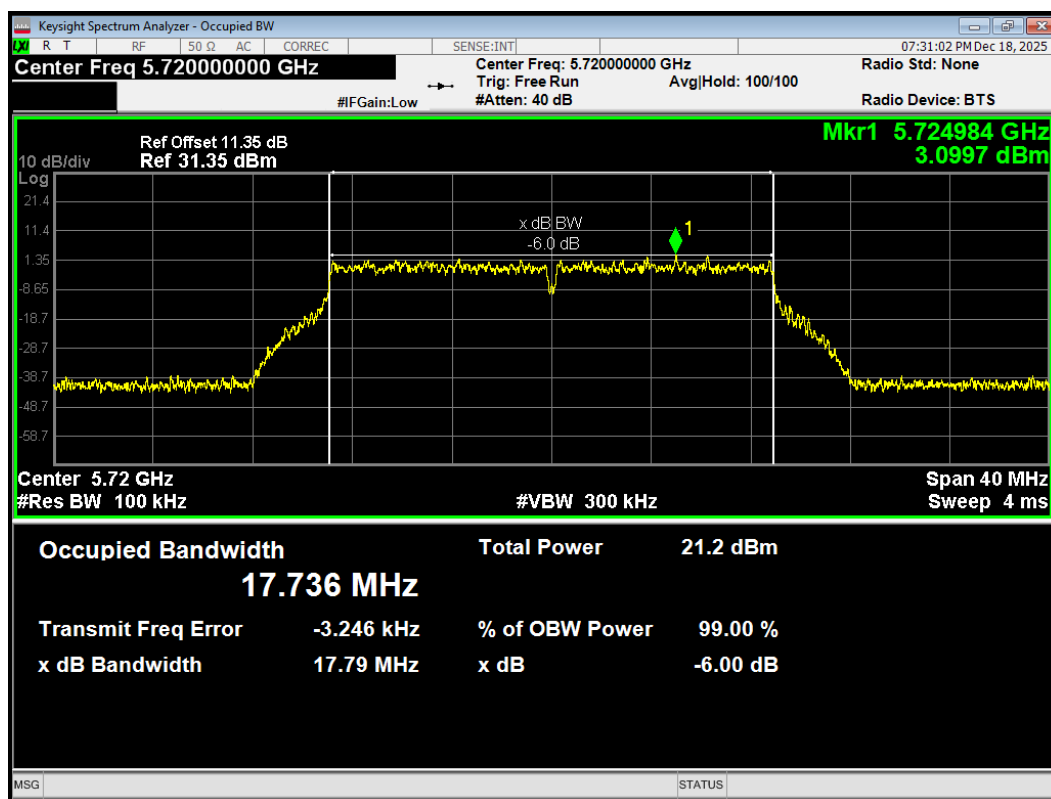
-6dB Bandwidth 802.11ax(HE80) 5690MHz



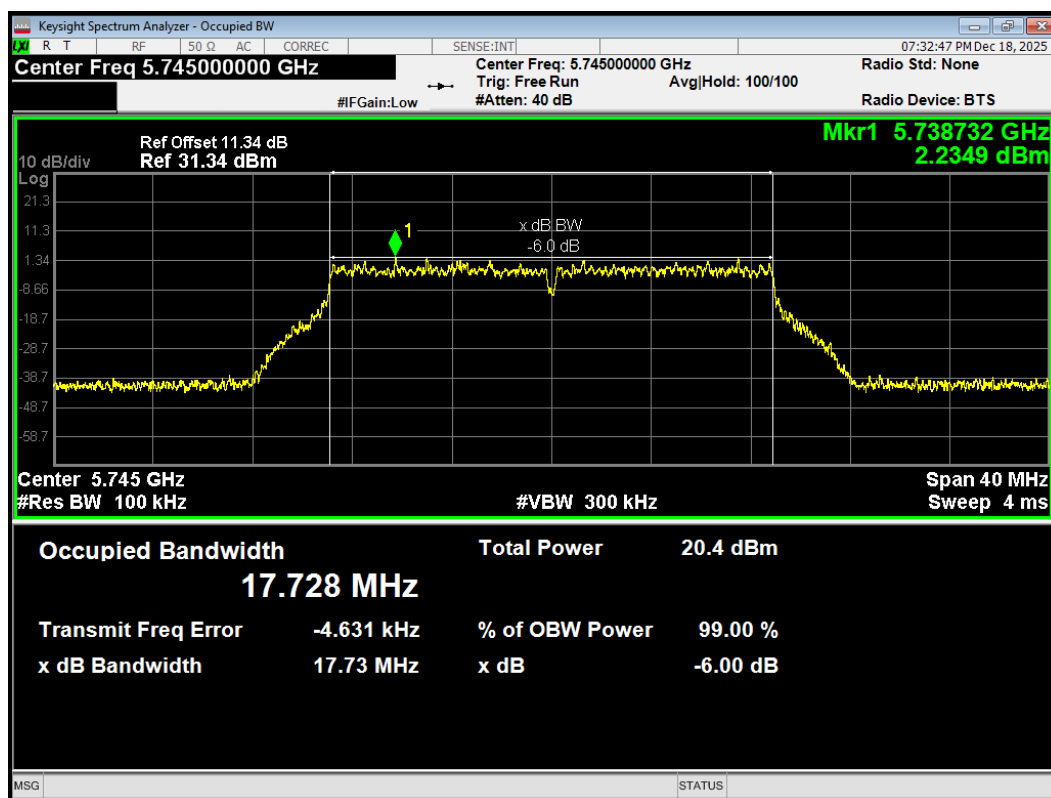
-6dB Bandwidth 802.11ax(HE80) 5775MHz



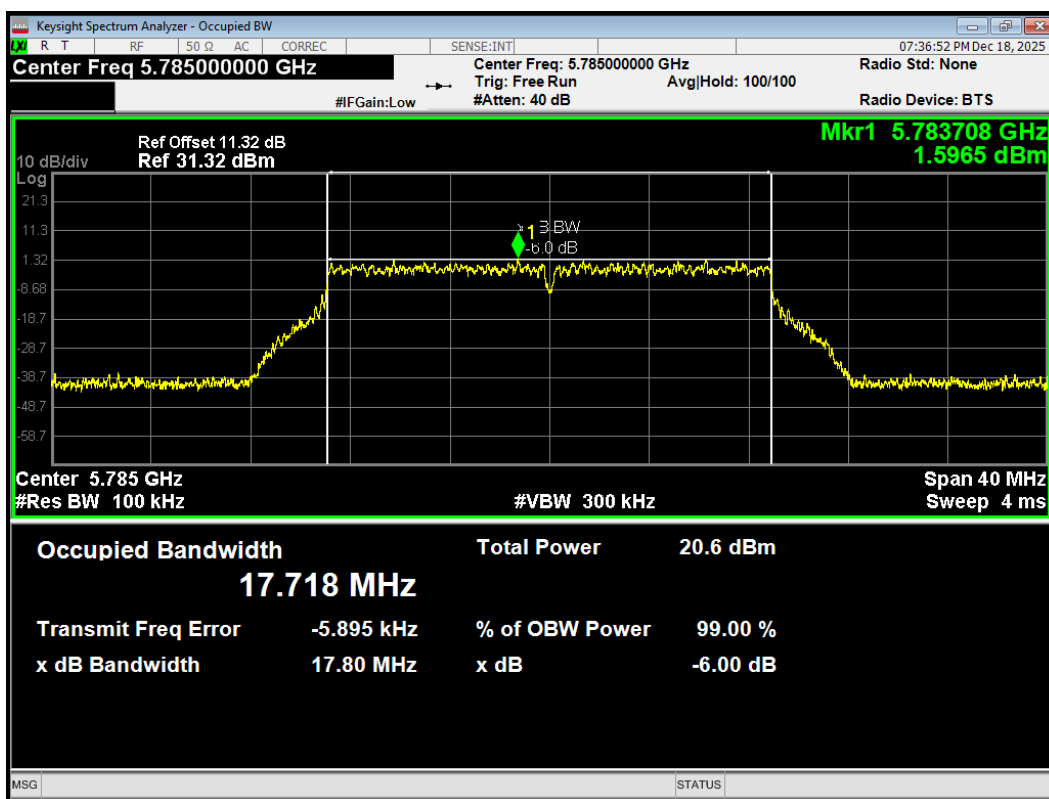
-6dB Bandwidth 802.11n(HT20) 5720MHz



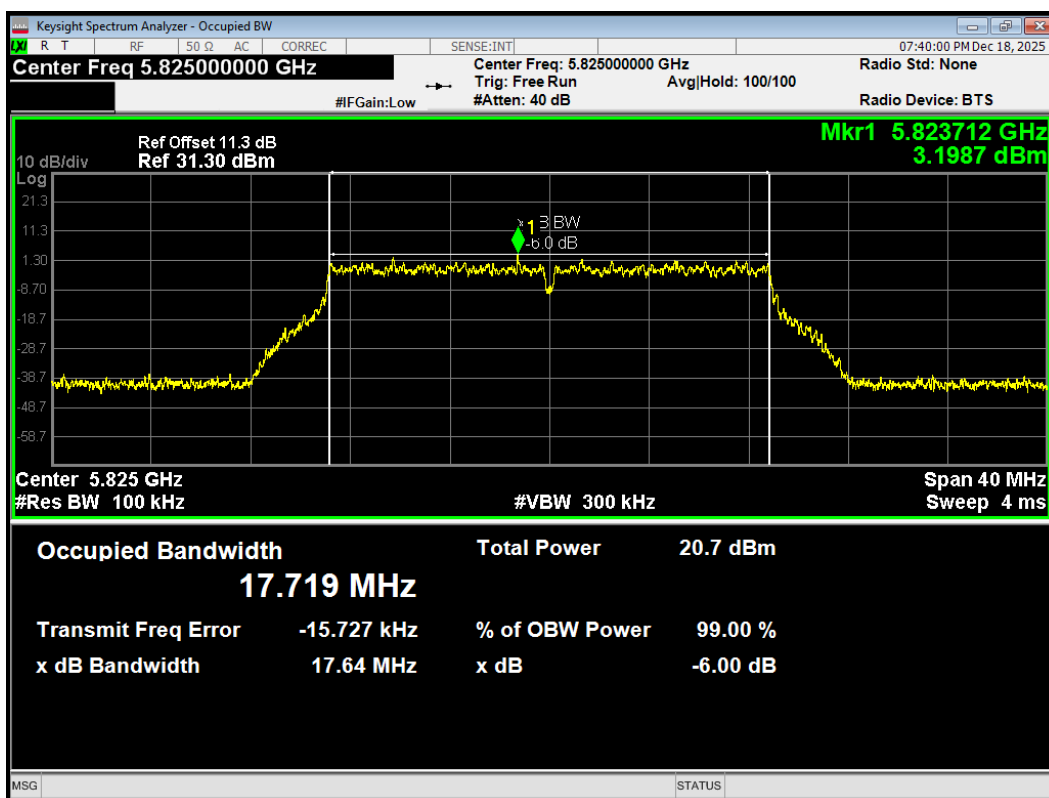
-6dB Bandwidth 802.11n(HT20) 5745MHz



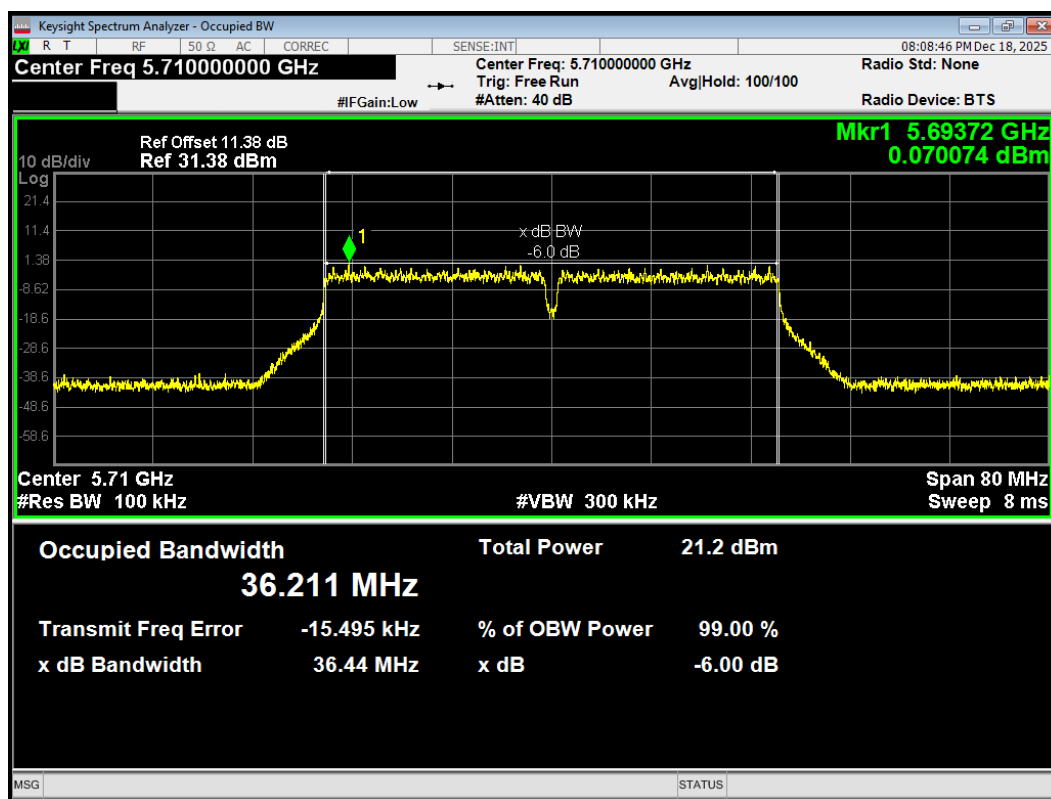
-6dB Bandwidth 802.11n(HT20) 5785MHz



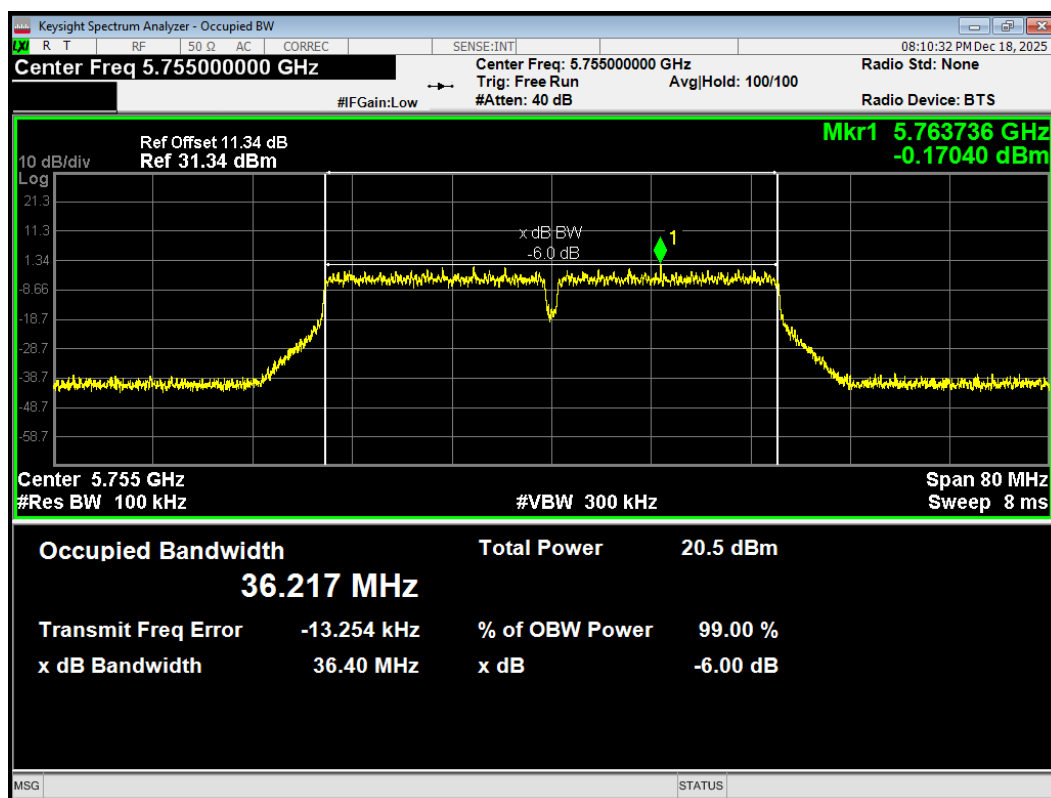
-6dB Bandwidth 802.11n(HT20) 5825MHz



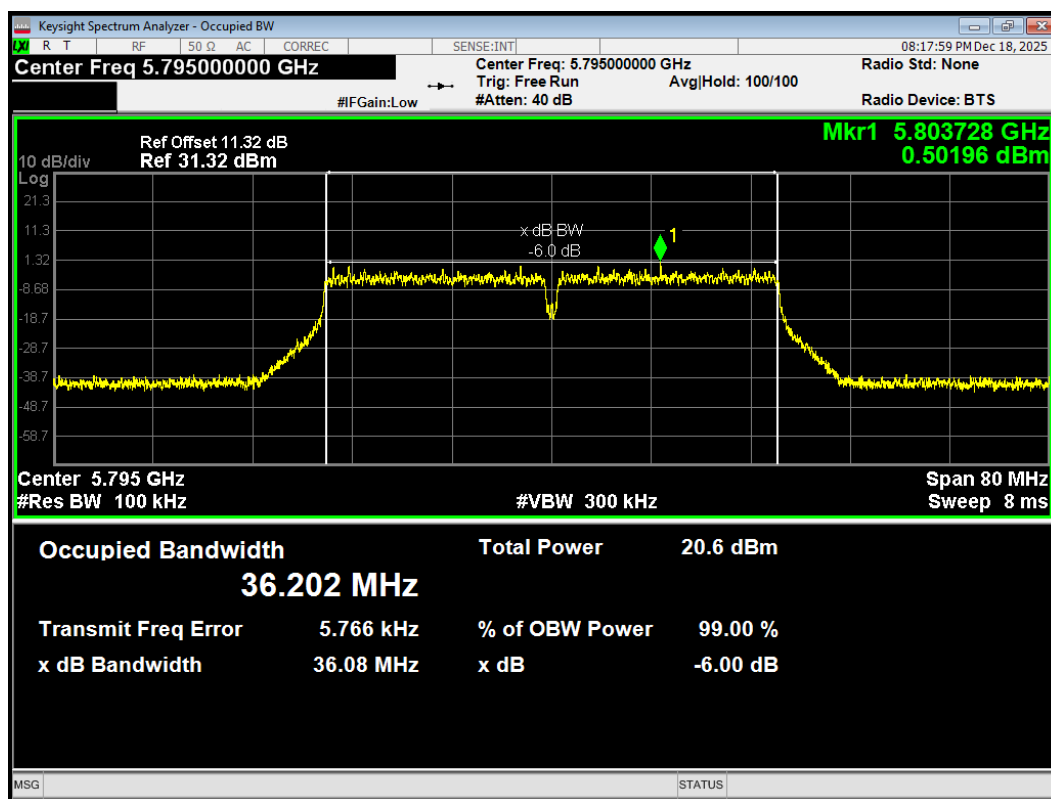
-6dB Bandwidth 802.11n(HT40) 5710MHz



-6dB Bandwidth 802.11n(HT40) 5755MHz



-6dB Bandwidth 802.11n(HT40) 5795MHz



6.2. Average Power Output

Mode	Duty cycle	Duty cycle correction Factor (dB)
802.11a	0.958	0.18
802.11n HT20	0.925	0.34
802.11n HT40	0.948	0.23
802.11ac VHT20	0.926	0.34
802.11ac VHT40	0.932	0.30
802.11ac VHT80	0.935	0.29
802.11ac VHT160	0.935	0.29
802.11ax HE20	0.943	0.26
802.11ax HE40	0.949	0.23
802.11ax HE80	0.924	0.34
802.11ax HE160	0.921	0.36
Note: when Duty cycle ≥ 0.98 , Duty cycle correction Factor not required.		

Test Mode		Channel/ Frequency (MHz)	B=26 dB bandwidth (MHz)	Limit 11 dBm + 10 log B (dBm)	Final Limit (dBm)
U-NII-2A	802.11a	52/5260	22.13	24.45	24.00
		60/5300	22.03	24.43	24.00
		64/5320	22.28	24.48	24.00
	802.11n HT20	52/5260	22.42	24.51	24.00
		60/5300	22.27	24.48	24.00
		64/5320	22.30	24.48	24.00
	802.11n HT40	54/5270	44.34	27.47	24.00
		62/5310	44.06	27.44	24.00
	802.11ac VHT20	52/5260	22.28	24.48	24.00
		60/5300	22.43	24.51	24.00
		64/5320	22.22	24.47	24.00
	802.11ac VHT40	54/5270	44.28	27.46	24.00
		62/5310	43.66	27.40	24.00
	802.11ac VHT80	58/5290	87.63	30.43	24.00
	802.11ac VHT160	50/5250	208.77	34.20	24.00
	802.11ax HE20	52/5260	22.18	24.46	24.00
		60/5300	21.96	24.42	24.00
		64/5320	21.74	24.37	24.00
	802.11ax HE40	54/5270	43.42	27.38	24.00
		62/5310	43.14	27.35	24.00
	802.11ax HE80	58/5290	85.86	30.34	24.00
	802.11ax HE160	50/5250	169.87	33.30	24.00
U-NII-2C	802.11a	100/5500	22.00	24.43	24.00
		120/5600	22.18	24.46	24.00
		140/5700	22.30	24.48	24.00
		144/5720	21.83	24.39	24.00
	802.11n HT20	100/5500	22.39	24.50	24.00
		120/5600	22.17	24.46	24.00
		140/5700	22.41	24.50	24.00
		144/5720	22.43	24.51	24.00
	802.11n HT40	102/5510	44.01	27.44	24.00
		118/5590	44.01	27.44	24.00
		134/5670	43.86	27.42	24.00
		142/5710	44.31	27.46	24.00
	802.11ac VHT20	100/5500	22.29	24.48	24.00
		120/5600	22.31	24.48	24.00

		140/5700	22.16	24.46	24.00
		144/5720	22.25	24.47	24.00
	802.11ac VHT40	102/5510	44.08	27.44	24.00
		118/5590	43.90	27.42	24.00
		134/5670	44.55	27.49	24.00
		142/5710	43.99	27.43	24.00
	802.11ac VHT80	122/5610	86.85	30.39	24.00
		138/5690	86.85	30.39	24.00
	802.11ac VHT160	114/5570	235.99	34.73	24.00
	802.11ax HE20	100/5500	22.08	24.44	24.00
		120/5600	22.35	24.49	24.00
		140/5700	21.96	24.42	24.00
		144/5720	21.83	24.39	24.00
	802.11ax HE40	102/5510	43.98	27.43	24.00
		118/5590	43.58	27.39	24.00
		134/5670	43.36	27.37	24.00
		142/5710	43.16	27.35	24.00
	802.11ax HE80	122/5610	86.40	30.36	24.00
		138/5690	85.03	30.30	24.00
	802.11ax HE160	114/5570	168.34	33.26	24.00
Note: 250mW=24dBm					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	17.25	17.43	30	PASS
	40/5200	16.69	16.87	30	PASS
	48/5240	16.59	16.77	30	PASS
802.11n HT20	36/5180	17.06	17.40	30	PASS
	40/5200	16.37	16.71	30	PASS
	48/5240	16.71	17.05	30	PASS
802.11n HT40	38/5190	16.61	16.84	30	PASS
	46/5230	16.71	16.94	30	PASS
802.11ac VHT20	36/5180	17.09	17.43	30	PASS
	40/5200	16.51	16.85	30	PASS
	48/5240	16.85	17.19	30	PASS
802.11ac VHT40	38/5190	16.77	17.07	30	PASS
	46/5230	16.89	17.19	30	PASS
802.11ac VHT80	42/5210	16.84	17.13	30	PASS
802.11ax HE20	36/5180	17.12	17.38	30	PASS
	40/5200	16.61	16.87	30	PASS
	48/5240	16.58	16.84	30	PASS
802.11ax HE40	38/5190	17.06	17.29	30	PASS
	46/5230	16.87	17.10	30	PASS
802.11ax HE80	42/5210	17.11	17.45	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	16.88	17.06	24	52/5260
	60/5300	16.99	17.17	24	60/5300
	64/5320	17.13	17.31	24	64/5320
802.11n HT20	52/5260	16.95	17.29	24	52/5260
	60/5300	17.03	17.37	24	60/5300
	64/5320	16.94	17.28	24	64/5320
802.11n HT40	54/5270	16.44	16.67	24	54/5270
	62/5310	16.96	17.19	24	62/5310
802.11ac VHT20	52/5260	16.81	17.15	24	52/5260
	60/5300	17.11	17.45	24	60/5300
	64/5320	17.07	17.41	24	64/5320
802.11ac VHT40	54/5270	17.10	17.40	24	54/5270
	62/5310	16.96	17.26	24	62/5310
802.11ac VHT80	58/5290	17.14	17.43	24	58/5290
802.11ac VHT160	50/5250	17.01	17.30	24	50/5250
802.11ax HE20	52/5260	16.74	17.00	24	52/5260
	60/5300	16.93	17.19	24	60/5300
	64/5320	16.88	17.14	24	64/5320
802.11ax HE40	54/5270	17.29	17.52	24	54/5270
	62/5310	17.10	17.33	24	62/5310
802.11ax HE80	58/5290	17.21	17.55	24	58/5290
802.11ax HE160	50/5250	17.14	17.50	24	50/5250
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	16.62	16.80	24	PASS
	120/5600	16.60	16.78	24	PASS
	140/5700	16.92	17.10	24	PASS
	144/5720	16.43	16.61	24	PASS
802.11n HT20	100/5500	16.50	16.84	24	PASS
	120/5600	16.76	17.10	24	PASS
	140/5700	16.85	17.19	24	PASS
	144/5720	16.12	16.46	24	PASS
802.11n HT40	102/5510	16.58	16.81	24	PASS
	118/5590	16.41	16.64	24	PASS
	134/5670	16.58	16.81	24	PASS
	142/5710	16.31	16.54	24	PASS
802.11ac VHT20	100/5500	16.58	16.92	24	PASS
	120/5600	16.67	17.01	24	PASS
	140/5700	17.07	17.41	24	PASS
	144/5720	16.04	16.38	24	PASS
802.11ac VHT40	102/5510	16.74	17.04	24	PASS
	118/5590	16.30	16.60	24	PASS
	134/5670	16.61	16.91	24	PASS
	142/5710	16.36	16.66	24	PASS
802.11ac VHT80	122/5610	17.18	17.47	24	PASS
	138/5690	16.32	16.61	24	PASS
802.11ac VHT160	114/5570	16.54	16.83	24	PASS
802.11ax HE20	100/5500	16.63	16.89	24	PASS
	120/5600	16.84	17.10	24	PASS
	140/5700	17.02	17.28	24	PASS
	144/5720	15.94	16.20	24	PASS
802.11ax HE40	102/5510	16.91	17.14	24	PASS
	118/5590	16.31	16.54	24	PASS
	134/5670	16.45	16.68	24	PASS
	142/5710	16.29	16.52	24	PASS
802.11ax HE80	122/5610	17.18	17.52	24	PASS
	138/5690	15.88	16.22	24	PASS
802.11ax HE160	114/5570	16.85	17.21	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	10.32	10.50	30	PASS
	149/5745	17.03	17.21	30	PASS
	157/5785	16.81	16.99	30	PASS
	165/5825	17.12	17.30	30	PASS
802.11n HT20	144/5720	10.37	10.71	30	PASS
	149/5745	16.67	17.01	30	PASS
	157/5785	16.74	17.08	30	PASS
	165/5825	16.77	17.11	30	PASS
802.11n HT40	142/5710	6.53	6.76	30	PASS
	151/5755	16.38	16.61	30	PASS
	159/5795	16.52	16.75	30	PASS
802.11ac VHT20	144/5720	10.38	10.72	30	PASS
	149/5745	16.67	17.01	30	PASS
	157/5785	16.91	17.25	30	PASS
	165/5825	17.27	17.61	30	PASS
802.11ac VHT40	142/5710	6.39	6.69	30	PASS
	151/5755	16.34	16.64	30	PASS
	159/5795	16.51	16.81	30	PASS
802.11ac VHT80	138/5690	3.00	3.29	30	PASS
	155/5775	16.37	16.66	30	PASS
802.11ax HE20	144/5720	10.71	10.97	30	PASS
	149/5745	16.83	17.09	30	PASS
	157/5785	16.79	17.05	30	PASS
	165/5825	17.16	17.42	30	PASS
802.11ax HE40	142/5710	6.93	7.16	30	PASS
	151/5755	16.85	17.08	30	PASS
	159/5795	16.47	16.70	30	PASS
802.11ax HE80	138/5690	3.34	3.68	30	PASS
	155/5775	16.39	16.73	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

SISO Antenna 2
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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	36/5180	16.93	17.13	30	PASS
	40/5200	16.59	16.79	30	PASS
	48/5240	16.93	17.13	30	PASS
802.11n HT20	36/5180	16.89	17.10	30	PASS
	40/5200	17.26	17.47	30	PASS
	48/5240	16.70	16.91	30	PASS
802.11n HT40	38/5190	16.45	16.73	30	PASS
	46/5230	16.81	17.09	30	PASS
802.11ac VHT20	36/5180	16.70	17.05	30	PASS
	40/5200	16.44	16.79	30	PASS
	48/5240	16.72	17.07	30	PASS
802.11ac VHT40	38/5190	16.51	16.86	30	PASS
	46/5230	16.97	17.32	30	PASS
802.11ac VHT80	42/5210	16.82	17.09	30	PASS
802.11ax HE20	36/5180	16.81	17.12	30	PASS
	40/5200	16.37	16.68	30	PASS
	48/5240	16.73	17.04	30	PASS
802.11ax HE40	38/5190	16.46	16.80	30	PASS
	46/5230	16.98	17.32	30	PASS
802.11ax HE80	42/5210	16.78	17.09	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	52/5260	17.12	17.32	24	PASS
	60/5300	16.99	17.19	24	PASS
	64/5320	16.72	16.92	24	PASS
802.11n HT20	52/5260	16.48	16.69	24	PASS
	60/5300	16.64	16.85	24	PASS
	64/5320	16.65	16.86	24	PASS
802.11n HT40	54/5270	17.16	17.44	24	PASS
	62/5310	16.70	16.98	24	PASS
802.11ac VHT20	52/5260	16.66	17.01	24	PASS
	60/5300	16.76	17.11	24	PASS
	64/5320	16.47	16.82	24	PASS
802.11ac VHT40	54/5270	16.43	16.78	24	PASS
	62/5310	16.66	17.01	24	PASS
802.11ac VHT80	58/5290	16.91	17.18	24	PASS
802.11ac VHT160	50/5250	17.06	17.34	24	PASS
802.11ax HE20	52/5260	16.90	17.21	24	PASS
	60/5300	16.72	17.03	24	PASS
	64/5320	16.77	17.08	24	PASS
802.11ax HE40	54/5270	16.56	16.90	24	PASS
	62/5310	16.64	16.98	24	PASS
802.11ax HE80	58/5290	17.07	17.38	24	PASS
802.11ax HE160	50/5250	17.27	17.58	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	100/5500	16.59	16.79	24	PASS
	120/5600	16.46	16.66	24	PASS
	140/5700	17.15	17.35	24	PASS
	144/5720	16.31	16.51	24	PASS
802.11n HT20	100/5500	16.37	16.58	24	PASS
	120/5600	16.44	16.65	24	PASS
	140/5700	16.83	17.04	24	PASS
	144/5720	15.95	16.16	24	PASS
802.11n HT40	102/5510	16.52	16.80	24	PASS
	118/5590	17.12	17.40	24	PASS
	134/5670	17.10	17.38	24	PASS
	142/5710	16.38	16.66	24	PASS
802.11ac VHT20	100/5500	16.37	16.72	24	PASS
	120/5600	16.46	16.81	24	PASS
	140/5700	16.84	17.19	24	PASS
	144/5720	16.07	16.42	24	PASS
802.11ac VHT40	102/5510	16.45	16.80	24	PASS
	118/5590	17.07	17.42	24	PASS
	134/5670	17.01	17.36	24	PASS
	142/5710	16.29	16.64	24	PASS
802.11ac VHT80	122/5610	16.98	17.25	24	PASS
	138/5690	16.91	17.18	24	PASS
802.11ac VHT160	114/5570	16.41	16.69	24	PASS
802.11ax HE20	100/5500	16.40	16.71	24	PASS
	120/5600	16.57	16.88	24	PASS
	140/5700	16.93	17.24	24	PASS
	144/5720	16.11	16.42	24	PASS
802.11ax HE40	102/5510	16.55	16.89	24	PASS
	118/5590	17.02	17.36	24	PASS
	134/5670	17.13	17.47	24	PASS
	142/5710	16.31	16.65	24	PASS
802.11ax HE80	122/5610	16.77	17.08	24	PASS
	138/5690	16.68	16.99	24	PASS
802.11ax HE160	114/5570	16.50	16.81	24	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

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Test Mode	Channel/ Frequency (MHz)	Average Power Measured (dBm)	Average Power with duty factor (dBm)	Limit (dBm)	Conclusion
802.11a	144/5720	9.85	10.05	30	PASS
	149/5745	16.89	17.09	30	PASS
	157/5785	16.69	16.89	30	PASS
	165/5825	16.76	16.96	30	PASS
802.11n HT20	144/5720	10.52	10.73	30	PASS
	149/5745	16.86	17.07	30	PASS
	157/5785	16.95	17.16	30	PASS
	165/5825	16.56	16.77	30	PASS
802.11n HT40	142/5710	6.30	6.58	30	PASS
	151/5755	16.51	16.79	30	PASS
	159/5795	16.54	16.82	30	PASS
802.11ac VHT20	144/5720	10.53	10.88	30	PASS
	149/5745	17.17	17.52	30	PASS
	157/5785	16.69	17.04	30	PASS
	165/5825	16.55	16.90	30	PASS
802.11ac VHT40	142/5710	6.57	6.92	30	PASS
	151/5755	16.61	16.96	30	PASS
	159/5795	16.43	16.78	30	PASS
802.11ac VHT80	138/5690	2.57	2.84	30	PASS
	155/5775	16.26	16.53	30	PASS
802.11ax HE20	144/5720	10.55	10.86	30	PASS
	149/5745	17.00	17.31	30	PASS
	157/5785	16.65	16.96	30	PASS
	165/5825	16.57	16.88	30	PASS
802.11ax HE40	142/5710	7.11	7.45	30	PASS
	151/5755	16.70	17.04	30	PASS
	159/5795	16.64	16.98	30	PASS
802.11ax HE80	138/5690	3.11	3.42	30	PASS
	155/5775	16.90	17.21	30	PASS
Note: Average Power with duty factor = Average Power Measured +Duty cycle correction factor					

MIMO
U-NII-1

Test Mode	Channel/ Frequency (MHz)	Antenna 1		Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	36/5180	14.16	14.34	13.90	14.08	17.22	30	PASS
	40/5200	13.65	13.83	14.43	14.61	17.25	30	PASS
	48/5240	13.71	13.89	14.70	14.88	17.42	30	PASS
802.11n HT20	36/5180	14.23	14.57	14.15	14.49	17.54	30	PASS
	40/5200	13.97	14.31	14.63	14.97	17.66	30	PASS
	48/5240	14.23	14.57	14.89	15.23	17.92	30	PASS
802.11n HT40	38/5190	14.00	14.23	14.39	14.62	17.44	30	PASS
	46/5230	13.98	14.21	15.10	15.33	17.81	30	PASS
802.11ac VHT20	36/5180	13.97	14.31	13.85	14.19	17.26	30	PASS
	40/5200	13.70	14.04	14.30	14.64	17.36	30	PASS
	48/5240	14.11	14.45	14.85	15.19	17.85	30	PASS
802.11ac VHT40	38/5190	13.99	14.29	14.21	14.51	17.41	30	PASS
	46/5230	14.19	14.49	15.09	15.39	17.98	30	PASS
802.11ac VHT80	42/5210	13.80	14.09	14.40	14.69	17.41	30	PASS
802.11ax HE20	36/5180	13.89	14.15	13.95	14.21	17.19	30	PASS
	40/5200	13.59	13.85	14.61	14.87	17.40	30	PASS
	48/5240	14.10	14.36	14.97	15.23	17.83	30	PASS
802.11ax HE40	38/5190	13.94	14.17	14.20	14.43	17.31	30	PASS
	46/5230	13.39	13.62	14.16	14.39	17.03	30	PASS
802.11ax HE80	42/5210	13.43	13.77	14.34	14.68	17.26	30	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(i): If all antennas have the same gain, Directional gain = G_{ANT} + Array Gain,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.30 + 0 = 4.30 \text{ dBi} < 6 \text{ dBi}$. So the power limit is 30dBm.

U-NII-2A

Test Mode	Channel/ Frequency (MHz)	Antenna 1		Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	52/5260	13.72	13.90	14.63	14.81	17.39	24	PASS
	60/5300	13.39	13.57	14.24	14.42	17.02	24	PASS
	64/5320	13.27	13.45	14.30	14.48	17.00	24	PASS
802.11n HT20	52/5260	13.64	13.98	14.76	15.10	17.59	24	PASS
	60/5300	13.70	14.04	14.38	14.72	17.40	24	PASS
	64/5320	13.42	13.76	14.36	14.70	17.26	24	PASS
802.11n HT40	54/5270	13.68	13.91	14.45	14.68	17.32	24	PASS
	62/5310	13.39	13.62	14.49	14.72	17.22	24	PASS
802.11ac VHT20	52/5260	13.62	13.96	14.69	15.03	17.54	24	PASS
	60/5300	13.63	13.97	14.57	14.91	17.48	24	PASS
	64/5320	13.47	13.81	14.33	14.67	17.27	24	PASS
802.11ac VHT40	54/5270	13.39	13.69	14.17	14.47	17.11	24	PASS
	62/5310	13.41	13.71	14.38	14.68	17.23	24	PASS
802.11ac VHT80	58/5290	13.13	13.42	14.32	14.61	17.06	24	PASS
802.11ac VHT160	50/5250	13.30	13.59	14.38	14.67	17.17	24	PASS
802.11ax HE20	52/5260	13.69	13.95	14.75	15.01	17.52	24	PASS
	60/5300	13.68	13.94	14.64	14.90	17.46	24	PASS
	64/5320	13.25	13.51	14.14	14.40	16.99	24	PASS
802.11ax HE40	54/5270	13.60	13.83	14.61	14.84	17.37	24	PASS
	62/5310	13.59	13.82	14.67	14.90	17.40	24	PASS
802.11ax HE80	58/5290	13.40	13.74	14.54	14.88	17.35	24	PASS
802.11ax HE160	50/5250	13.36	13.72	14.66	15.02	17.43	24	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(i): If all antennas have the same gain, Directional gain = G_{ANT} + Array Gain,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.30 + 0 = 4.30 \text{ dBi} < 6 \text{ dBi}$. So the power limit is 24dBm.

U-NII-2C

Test Mode	Channel/ Frequency (MHz)	Antenna 1		Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	100/5500	13.45	13.63	13.86	14.04	16.85	24	PASS
	120/5600	13.77	13.95	13.54	13.72	16.84	24	PASS
	140/5700	14.14	14.32	14.14	14.32	17.33	24	PASS
	144/5720	13.42	13.60	13.97	14.15	16.89	24	PASS
802.11n HT20	100/5500	13.34	13.68	13.83	14.17	16.94	24	PASS
	120/5600	14.03	14.37	13.65	13.99	17.19	24	PASS
	140/5700	14.11	14.45	14.14	14.48	17.47	24	PASS
	144/5720	13.54	13.88	13.68	14.02	16.96	24	PASS
802.11n HT40	102/5510	13.45	13.68	13.83	14.06	16.89	24	PASS
	118/5590	13.92	14.15	13.51	13.74	16.96	24	PASS
	134/5670	14.00	14.23	13.72	13.95	17.10	24	PASS
	142/5710	13.67	13.90	13.94	14.17	17.05	24	PASS
802.11ac VHT20	100/5500	13.61	13.95	14.11	14.45	17.22	24	PASS
	120/5600	14.05	14.39	13.78	14.12	17.27	24	PASS
	140/5700	14.30	14.64	14.39	14.73	17.70	24	PASS
	144/5720	13.09	13.43	13.76	14.10	16.78	24	PASS
802.11ac VHT40	102/5510	13.37	13.67	14.05	14.35	17.03	24	PASS
	118/5590	13.93	14.23	13.54	13.84	17.05	24	PASS
	134/5670	13.82	14.12	13.57	13.87	17.01	24	PASS
	142/5710	13.66	13.96	14.29	14.59	17.30	24	PASS
802.11ac VHT80	122/5610	13.86	14.15	13.19	13.48	16.84	24	PASS
	138/5690	13.71	14.00	14.01	14.30	17.16	24	PASS
802.11ac VHT160	114/5570	13.64	13.93	14.19	14.48	17.22	24	PASS
802.11ax HE20	100/5500	13.36	13.62	13.71	13.97	16.81	24	PASS
	120/5600	13.90	14.16	13.66	13.92	17.05	24	PASS
	140/5700	14.26	14.52	14.24	14.50	17.52	24	PASS
	144/5720	13.06	13.32	13.67	13.93	16.64	24	PASS
802.11ax HE40	102/5510	13.61	13.84	14.00	14.23	17.05	24	PASS
	118/5590	14.12	14.35	13.37	13.60	17.00	24	PASS
	134/5670	13.90	14.13	13.91	14.14	17.15	24	PASS
	142/5710	13.61	13.84	13.96	14.19	17.03	24	PASS
802.11ax HE80	122/5610	13.94	14.28	13.44	13.78	17.05	24	PASS
	138/5690	13.78	14.12	13.67	14.01	17.08	24	PASS
802.11ax HE160	114/5570	13.67	14.03	13.54	13.90	16.97	24	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(i): If all antennas have the same gain, Directional gain = G_{ANT}

+ Array Gain,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.30 + 0 = 4.30 \text{ dBi} < 6 \text{ dBi}$. So the power limit is 24dBm.

U-NII-3

Test Mode	Channel/ Frequency (MHz)	Antenna 1		Antenna 2		Total Power (dBm)	Limit (dBm)	Conclusion
		Average Power Measured (dBm)	Average Power with duty factor (dBm)	Average Power Measured (dBm)	Average Power with duty factor (dBm)			
802.11a	144/5720	7.55	7.73	7.92	8.10	10.93	30	PASS
	149/5745	14.15	14.33	14.17	14.35	17.35	30	PASS
	157/5785	14.17	14.35	13.74	13.92	17.15	30	PASS
	165/5825	13.99	14.17	13.15	13.33	16.78	30	PASS
802.11n HT20	144/5720	8.05	8.39	8.29	8.63	11.52	30	PASS
	149/5745	13.71	14.05	14.24	14.58	17.33	30	PASS
	157/5785	13.86	14.20	13.54	13.88	17.06	30	PASS
	165/5825	14.65	14.99	14.24	14.58	17.80	30	PASS
802.11n HT40	142/5710	3.42	3.65	3.76	3.99	6.84	30	PASS
	151/5755	13.73	13.96	14.07	14.30	17.14	30	PASS
	159/5795	13.75	13.98	13.79	14.02	17.01	30	PASS
802.11ac VHT20	144/5720	8.18	8.52	8.24	8.58	11.56	30	PASS
	149/5745	13.81	14.15	14.10	14.44	17.30	30	PASS
	157/5785	13.65	13.99	13.55	13.89	16.95	30	PASS
	165/5825	14.71	15.05	14.01	14.35	17.72	30	PASS
802.11ac VHT40	142/5710	3.98	4.28	3.71	4.01	7.16	30	PASS
	151/5755	13.72	14.02	13.86	14.16	17.10	30	PASS
	159/5795	13.72	14.02	13.67	13.97	17.01	30	PASS
802.11ac VHT80	138/5690	0.19	0.48	0.17	0.46	3.48	30	PASS
	155/5775	13.95	14.24	13.34	13.63	16.96	30	PASS
802.11ax HE20	144/5720	7.87	8.13	8.67	8.93	11.56	30	PASS
	149/5745	13.60	13.86	13.99	14.25	17.07	30	PASS
	157/5785	13.98	14.24	13.69	13.95	17.11	30	PASS
	165/5825	14.45	14.71	14.03	14.29	17.51	30	PASS
802.11ax HE40	142/5710	4.48	4.71	4.72	4.95	7.84	30	PASS
	151/5755	13.53	13.76	13.96	14.19	16.99	30	PASS
	159/5795	13.98	14.21	13.56	13.79	17.02	30	PASS
802.11ax HE80	138/5690	0.99	1.33	0.64	0.98	4.16	30	PASS
	155/5775	13.92	14.26	13.46	13.80	17.04	30	PASS

Note: 1. For Total Power, according to KDB 662911 D01 Multiple Transmitter Output v02r01 1),

The Total Power = $10\log(10^{(\text{Power antenna1 in dBm}/10)} + 10^{(\text{Power antenna2 in dBm}/10)})$

2. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(i): If all antennas have the same gain, Directional gain = G_{ANT} + Array Gain,

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{\text{ANT}} \geq 5$.

So Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.30 + 0 = 4.30 \text{ dBi} < 6 \text{ dBi}$. So the power limit is 24dBm.

6.3. Frequency Stability

Voltage (V)	Temperature (°C)	U-NII-1 Test Results			
		5200MHz			
		1min	2min	5min	10min
12	-30	5200.001297	5199.999996	5199.991650	5199.989386
12	-20	5199.995515	5199.995010	5199.990349	5199.985464
12	-10	5199.989202	5199.993902	5199.984423	5199.984857
12	0	5199.985952	5199.993832	5199.987079	5199.980638
12	10	5199.985415	5199.991529	5199.981869	5199.973648
12	20	5199.978915	5199.988609	5199.972027	5199.963978
12	30	5199.969678	5199.985305	5199.964738	5199.962339
12	40	5199.964671	5199.984860	5199.957350	5199.955189
12	50	5199.964388	5199.979953	5199.949666	5199.954717
10	20	5199.957642	5199.977004	5199.945275	5199.950136
14	20	5199.954637	5199.967770	5199.941912	5199.941130
Max. ΔMHz		-0.045363	-0.032230	-0.058088	-0.058870
PPM		-8.723654	-6.198077	-11.170769	-11.321154

Voltage (V)	Temperature (°C)	U-NII-2A Test Results			
		5300MHz			
		1min	2min	5min	10min
12	-30	5300.005519	5299.997252	5299.989312	5299.986410
12	-20	5300.003804	5299.991021	5299.987386	5299.978665
12	-10	5300.002488	5299.983110	5299.985124	5299.969318
12	0	5300.002685	5299.983517	5299.986200	5299.977385
12	10	5299.996894	5299.980953	5299.976244	5299.969019
12	20	5299.988770	5299.978820	5299.974071	5299.964756
12	30	5299.982380	5299.975881	5299.970811	5299.955105
12	40	5299.981792	5299.969520	5299.968090	5299.951147
12	50	5299.981447	5299.961647	5299.962824	5299.949477
10	20	5299.980125	5299.960317	5299.953639	5299.945743
14	20	5299.971199	5299.955857	5299.947851	5299.944590
Max. ΔMHz		-0.028801	-0.044143	-0.052149	-0.055410
PPM		-5.434151	-8.328868	-9.839434	-10.454717

Voltage (V)	Temperature (°C)	U-NII-2C Test Results			
		5580MHz			
		1min	2min	5min	10min
12	-30	5580.002105	5579.999713	5579.999652	5579.992369
12	-20	5579.995774	5579.992123	5579.998352	5579.985184
12	-10	5579.988089	5579.990118	5579.996256	5579.982977
12	0	5579.995563	5579.991792	5579.995730	5579.978125
12	10	5579.990252	5579.983014	5579.987634	5579.973893
12	20	5579.981448	5579.978403	5579.984519	5579.967662
12	30	5579.976120	5579.976261	5579.979379	5579.962488
12	40	5579.966876	5579.974828	5579.974072	5579.953115
12	50	5579.958188	5579.974402	5579.973109	5579.952958
10	20	5579.956268	5579.966952	5579.965036	5579.946575
14	20	5579.955781	5579.965272	5579.963650	5579.941942
Max. ΔMHz		-0.044219	-0.034728	-0.036350	-0.058058
PPM		-7.924552	-6.223656	-6.514337	-10.404659

Voltage (V)	Temperature (°C)	U-NII-3 Test Results			
		5785MHz			
		1min	2min	5min	10min
12	-30	5785.007340	5785.001706	5785.001276	5784.998668
12	-20	5785.001363	5784.993547	5784.996245	5784.993113
12	-10	5784.992730	5784.986149	5784.993542	5784.991247
12	0	5785.000791	5784.984150	5784.988836	5784.991674
12	10	5784.991499	5784.976769	5784.984434	5784.990451
12	20	5784.982594	5784.967155	5784.982613	5784.982705
12	30	5784.980454	5784.957890	5784.977815	5784.975165
12	40	5784.980085	5784.956420	5784.968845	5784.973698
12	50	5784.973056	5784.953193	5784.961078	5784.964316
10	20	5784.964760	5784.945055	5784.958859	5784.958374
14	20	5784.959527	5784.935998	5784.955452	5784.950293
Max. ΔMHz		-0.040473	-0.064002	-0.044548	-0.049707
PPM		-6.996197	-11.063440	-7.700605	-8.592394

6.4. Power Spectral Density

SISO Antenna 1

U-NII-1

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	6.39	6.57	17	PASS
	40/5200	5.70	5.88	17	PASS
	48/5240	5.42	5.60	17	PASS
802.11n HT20	36/5180	5.99	6.33	17	PASS
	40/5200	5.43	5.77	17	PASS
	48/5240	5.68	6.02	17	PASS
802.11n HT40	38/5190	2.62	2.85	17	PASS
	46/5230	2.70	2.93	17	PASS
802.11ac VHT20	36/5180	6.49	6.83	17	PASS
	40/5200	5.59	5.93	17	PASS
	48/5240	5.67	6.01	17	PASS
802.11ac VHT40	38/5190	2.74	3.04	17	PASS
	46/5230	3.09	3.39	17	PASS
802.11ac VHT80	42/5210	-0.22	0.07	17	PASS
802.11ax HE20	36/5180	6.52	6.78	17	PASS
	40/5200	5.50	5.76	17	PASS
	48/5240	5.63	5.89	17	PASS
802.11ax HE40	38/5190	2.85	3.08	17	PASS
	46/5230	2.51	2.74	17	PASS
802.11ax HE80	42/5210	-0.15	0.19	17	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-2A

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	52/5260	6.01	6.19	11	PASS
	60/5300	6.34	6.52	11	PASS
	64/5320	6.68	6.86	11	PASS
802.11n HT20	52/5260	5.98	6.32	11	PASS
	60/5300	6.03	6.37	11	PASS
	64/5320	6.27	6.61	11	PASS
802.11n HT40	54/5270	2.49	2.72	11	PASS
	62/5310	2.93	3.16	11	PASS
802.11ac VHT20	52/5260	5.78	6.12	11	PASS
	60/5300	6.00	6.34	11	PASS
	64/5320	6.16	6.50	11	PASS
802.11ac VHT40	54/5270	3.38	3.68	11	PASS
	62/5310	3.11	3.41	11	PASS
802.11ac VHT80	58/5290	0.02	0.31	11	PASS
802.11ac VHT160	50/5250	-2.77	-2.48	11	PASS
802.11ax HE20	52/5260	5.67	5.93	11	PASS
	60/5300	6.06	6.32	11	PASS
	64/5320	6.12	6.38	11	PASS
802.11ax HE40	54/5270	3.20	3.43	11	PASS
	62/5310	3.04	3.27	11	PASS
802.11ax HE80	58/5290	0.15	0.49	11	PASS
802.11ax HE160	50/5250	-2.49	-2.13	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-2C

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	5.80	5.98	11	PASS
	120/5600	6.32	6.50	11	PASS
	140/5700	6.61	6.79	11	PASS
	144/5720	6.55	6.73	11	PASS
802.11n HT20	100/5500	5.79	6.13	11	PASS
	120/5600	5.64	5.98	11	PASS
	140/5700	6.03	6.37	11	PASS
	144/5720	6.37	6.71	11	PASS
802.11n HT40	102/5510	2.69	2.92	11	PASS
	118/5590	2.39	2.62	11	PASS
	134/5670	2.53	2.76	11	PASS
	142/5710	3.27	3.50	11	PASS
802.11ac VHT20	100/5500	5.55	5.89	11	PASS
	120/5600	5.55	5.89	11	PASS
	140/5700	6.14	6.48	11	PASS
	144/5720	6.09	6.43	11	PASS
802.11ac VHT40	102/5510	2.63	2.93	11	PASS
	118/5590	2.07	2.37	11	PASS
	134/5670	2.54	2.84	11	PASS
	142/5710	2.91	3.21	11	PASS
802.11ac VHT80	122/5610	0.18	0.47	11	PASS
	138/5690	-0.50	-0.21	11	PASS
802.11ac VHT160	114/5570	-3.65	-3.36	11	PASS
802.11ax HE20	100/5500	5.71	5.97	11	PASS
	120/5600	5.73	5.99	11	PASS
	140/5700	6.05	6.31	11	PASS
	144/5720	6.22	6.48	11	PASS
802.11ax HE40	102/5510	2.74	2.97	11	PASS
	118/5590	1.83	2.06	11	PASS
	134/5670	2.85	3.08	11	PASS
	142/5710	3.08	3.31	11	PASS
802.11ax HE80	122/5610	0.10	0.44	11	PASS
	138/5690	-0.86	-0.52	11	PASS
802.11ax HE160	114/5570	-3.44	-3.08	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

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Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	3.13	3.58	30	PASS
	149/5745	2.75	3.20	30	PASS
	157/5785	3.15	3.60	30	PASS
	165/5825	3.20	3.65	30	PASS
802.11n HT20	144/5720	3.00	3.61	30	PASS
	149/5745	2.54	3.15	30	PASS
	157/5785	2.24	2.85	30	PASS
	165/5825	2.68	3.29	30	PASS
802.11n HT40	142/5710	-0.47	0.03	30	PASS
	151/5755	-1.29	-0.79	30	PASS
	159/5795	-0.93	-0.43	30	PASS
802.11ac VHT20	144/5720	2.78	3.39	30	PASS
	149/5745	2.16	2.77	30	PASS
	157/5785	2.74	3.35	30	PASS
	165/5825	2.66	3.27	30	PASS
802.11ac VHT40	142/5710	-0.40	0.17	30	PASS
	151/5755	-0.84	-0.27	30	PASS
	159/5795	-0.75	-0.18	30	PASS
802.11ac VHT80	138/5690	-3.49	-2.93	30	PASS
	155/5775	-4.17	-3.61	30	PASS
802.11ax HE20	144/5720	2.15	2.68	30	PASS
	149/5745	2.50	3.03	30	PASS
	157/5785	2.18	2.71	30	PASS
	165/5825	2.65	3.18	30	PASS
802.11ax HE40	142/5710	-0.33	0.20	30	PASS
	151/5755	-0.55	-0.05	30	PASS
	159/5795	-0.97	-0.47	30	PASS
802.11ax HE80	138/5690	-3.67	-3.17	30	PASS
	155/5775	-4.21	-3.60	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

SISO Antenna 2
U-NII-1

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	36/5180	6.37	6.57	17	PASS
	40/5200	6.08	6.28	17	PASS
	48/5240	6.71	6.91	17	PASS
802.11n HT20	36/5180	5.75	5.96	17	PASS
	40/5200	5.55	5.76	17	PASS
	48/5240	5.86	6.07	17	PASS
802.11n HT40	38/5190	2.34	2.62	17	PASS
	46/5230	2.58	2.86	17	PASS
802.11ac VHT20	36/5180	5.81	6.16	17	PASS
	40/5200	5.49	5.84	17	PASS
	48/5240	6.03	6.38	17	PASS
802.11ac VHT40	38/5190	2.51	2.86	17	PASS
	46/5230	2.65	3.00	17	PASS
802.11ac VHT80	42/5210	-0.59	-0.32	17	PASS
802.11ax HE20	36/5180	5.76	6.07	17	PASS
	40/5200	5.39	5.70	17	PASS
	48/5240	5.72	6.03	17	PASS
802.11ax HE40	38/5190	2.29	2.63	17	PASS
	46/5230	2.61	2.95	17	PASS
802.11ax HE80	42/5210	-0.63	-0.32	17	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-2A

Mode	Channel/ Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	52/5260	6.53	6.73	11	PASS
	60/5300	6.65	6.85	11	PASS
	64/5320	6.28	6.48	11	PASS
802.11n HT20	52/5260	5.61	5.82	11	PASS
	60/5300	6.01	6.22	11	PASS
	64/5320	5.47	5.68	11	PASS
802.11n HT40	54/5270	3.27	3.55	11	PASS
	62/5310	3.00	3.28	11	PASS
802.11ac VHT20	52/5260	5.60	5.95	11	PASS
	60/5300	6.09	6.44	11	PASS
	64/5320	6.05	6.40	11	PASS
802.11ac VHT40	54/5270	2.17	2.52	11	PASS
	62/5310	2.83	3.18	11	PASS
802.11ac VHT80	58/5290	-0.46	-0.19	11	PASS
802.11ac VHT160	50/5250	-2.77	-2.49	11	PASS
802.11ax HE20	52/5260	5.57	5.88	11	PASS
	60/5300	5.86	6.17	11	PASS
	64/5320	5.33	5.64	11	PASS
802.11ax HE40	54/5270	2.23	2.57	11	PASS
	62/5310	2.68	3.02	11	PASS
802.11ax HE80	58/5290	-0.21	0.10	11	PASS
802.11ax HE160	50/5250	-3.11	-2.80	11	PASS
Note: Power Spectral Density =Read Value+Duty cycle correction factor					

U-NII-2C

Mode	Channel /Frequency (MHz)	Read Value (dBm /MHz)	Power Spectral Density (dBm /MHz)	Limit (dBm /MHz)	Conclusion
802.11a	100/5500	5.78	5.98	11	PASS
	120/5600	5.60	5.80	11	PASS
	140/5700	6.39	6.59	11	PASS
	144/5720	6.48	6.68	11	PASS
802.11n HT20	100/5500	5.37	5.58	11	PASS
	120/5600	5.23	5.44	11	PASS
	140/5700	6.06	6.27	11	PASS
	144/5720	6.17	6.38	11	PASS
802.11n HT40	102/5510	2.42	2.70	11	PASS
	118/5590	3.22	3.50	11	PASS
	134/5670	3.04	3.32	11	PASS
	142/5710	2.94	3.22	11	PASS
802.11ac VHT20	100/5500	5.45	5.80	11	PASS
	120/5600	5.63	5.98	11	PASS
	140/5700	6.00	6.35	11	PASS
	144/5720	5.96	6.31	11	PASS
802.11ac VHT40	102/5510	2.50	2.85	11	PASS
	118/5590	2.73	3.08	11	PASS
	134/5670	3.21	3.56	11	PASS
	142/5710	2.69	3.04	11	PASS
802.11ac VHT80	122/5610	-0.54	-0.27	11	PASS
	138/5690	-0.10	0.17	11	PASS
802.11ac VHT160	114/5570	-3.68	-3.40	11	PASS
802.11ax HE20	100/5500	5.09	5.40	11	PASS
	120/5600	5.20	5.51	11	PASS
	140/5700	6.12	6.43	11	PASS
	144/5720	6.30	6.61	11	PASS
802.11ax HE40	102/5510	2.37	2.71	11	PASS
	118/5590	3.48	3.82	11	PASS
	134/5670	2.88	3.22	11	PASS
	142/5710	2.49	2.83	11	PASS
802.11ax HE80	122/5610	-0.54	-0.23	11	PASS
	138/5690	0.19	0.50	11	PASS
802.11ax HE160	114/5570	-3.96	-3.65	11	PASS

Note: Power Spectral Density =Read Value+Duty cycle correction factor

U-NII-3

Mode	Channel /Frequency (MHz)	Read Value (dBm/470kHz)	Power Spectral Density (dBm/500kHz)	Limit (dBm/500kHz)	Conclusion
802.11a	144/5720	2.96	3.43	30	PASS
	149/5745	2.96	3.43	30	PASS
	157/5785	2.72	3.19	30	PASS
	165/5825	2.60	3.07	30	PASS
802.11n HT20	144/5720	2.56	3.04	30	PASS
	149/5745	2.46	2.94	30	PASS
	157/5785	2.45	2.93	30	PASS
	165/5825	2.08	2.56	30	PASS
802.11n HT40	142/5710	-0.62	-0.07	30	PASS
	151/5755	-0.92	-0.37	30	PASS
	159/5795	-0.27	0.28	30	PASS
802.11ac VHT20	144/5720	2.66	3.28	30	PASS
	149/5745	2.98	3.60	30	PASS
	157/5785	2.24	2.86	30	PASS
	165/5825	2.31	2.93	30	PASS
802.11ac VHT40	142/5710	-0.83	-0.21	30	PASS
	151/5755	-0.77	-0.15	30	PASS
	159/5795	-0.79	-0.17	30	PASS
802.11ac VHT80	138/5690	-4.23	-3.69	30	PASS
	155/5775	-4.19	-3.65	30	PASS
802.11ax HE20	144/5720	2.39	2.97	30	PASS
	149/5745	2.49	3.07	30	PASS
	157/5785	2.64	3.22	30	PASS
	165/5825	2.39	2.97	30	PASS
802.11ax HE40	142/5710	-1.10	-0.52	30	PASS
	151/5755	-0.74	-0.13	30	PASS
	159/5795	-0.89	-0.28	30	PASS
802.11ax HE80	138/5690	-4.01	-3.40	30	PASS
	155/5775	-3.72	-3.14	30	PASS
Note: PSD=Read Value+Duty cycle correction factor +10*log(500/470)					

MIMO

U-NII-1

Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11a	36/5180	3.53	3.71	3.77	3.95	6.84	15.69	PASS
	40/5200	3.17	3.35	3.99	4.17	6.79	15.69	PASS
	48/5240	3.27	3.45	3.77	3.95	6.72	15.69	PASS
802.11n HT20	36/5180	3.63	3.97	3.28	3.62	6.81	15.69	PASS
	40/5200	2.80	3.14	3.78	4.12	6.67	15.69	PASS
	48/5240	3.26	3.60	4.87	5.21	7.49	15.69	PASS
802.11n HT40	38/5190	0.32	0.55	0.82	1.05	3.82	15.69	PASS
	46/5230	0.33	0.56	1.57	1.80	4.23	15.69	PASS
802.11ac VHT20	36/5180	4.06	4.40	4.17	4.51	7.47	15.69	PASS
	40/5200	3.80	4.14	4.41	4.75	7.47	15.69	PASS
	48/5240	3.22	3.56	4.87	5.21	7.47	15.69	PASS
802.11ac VHT40	38/5190	0.69	0.99	0.81	1.11	4.06	15.69	PASS
	46/5230	0.27	0.57	1.46	1.76	4.22	15.69	PASS
802.11ac VHT80	42/5210	-2.84	-2.55	-2.67	-2.38	0.55	15.69	PASS
802.11ax HE20	36/5180	2.92	3.18	3.28	3.54	6.37	15.69	PASS
	40/5200	3.07	3.33	3.88	4.14	6.76	15.69	PASS
	48/5240	3.12	3.38	4.12	4.38	6.92	15.69	PASS
802.11ax HE40	38/5190	0.37	0.60	0.37	0.60	3.61	15.69	PASS
	46/5230	-0.78	-0.55	0.39	0.62	3.08	15.69	PASS
802.11ax HE80	42/5210	-3.11	-2.77	-2.87	-2.53	0.36	15.69	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1 in dBm}/10)}+10^{(\text{PSD antenna 2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(i): If all antennas have the same gain,

Directional gain = $G_{\text{ANT}} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})\text{dB}$,

so Directional gain= $G_{\text{ANT}}+\text{Array Gain}=4.30+10\log(2/1)=7.31>6\text{ dBi}$.

So the PSD limit is $17-(\text{Directional gain}-6\text{ dBi})=17-(7.31-6)=15.69\text{ dBm}$.

U-NII-2A

Mode	Channel/ Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11a	52/5260	2.93	3.11	4.14	4.32	6.77	9.69	PASS
	60/5300	2.72	2.90	4.05	4.23	6.63	9.69	PASS
	64/5320	2.60	2.78	4.43	4.61	6.80	9.69	PASS
802.11n HT20	52/5260	2.84	3.18	3.84	4.18	6.72	9.69	PASS
	60/5300	2.34	2.68	3.78	4.12	6.47	9.69	PASS
	64/5320	2.78	3.12	3.52	3.86	6.52	9.69	PASS
802.11n HT40	54/5270	-0.22	0.01	0.55	0.78	3.42	9.69	PASS
	62/5310	-0.43	-0.20	0.93	1.16	3.54	9.69	PASS
802.11ac VHT20	52/5260	3.00	3.34	4.41	4.75	7.11	9.69	PASS
	60/5300	3.40	3.74	4.46	4.80	7.31	9.69	PASS
	64/5320	2.80	3.14	3.95	4.29	6.76	9.69	PASS
802.11ac VHT40	54/5270	-0.01	0.29	1.55	1.85	4.15	9.69	PASS
	62/5310	-0.04	0.26	1.13	1.43	3.89	9.69	PASS
802.11ac VHT80	58/5290	-3.61	-3.32	-1.92	-1.63	0.62	9.69	PASS
802.11ac VHT160	50/5250	-6.25	-5.96	-5.23	-4.94	-2.41	9.69	PASS
802.11ax HE20	52/5260	2.06	2.32	3.63	3.89	6.19	9.69	PASS
	60/5300	2.63	2.89	3.59	3.85	6.41	9.69	PASS
	64/5320	2.53	2.79	3.55	3.81	6.34	9.69	PASS
802.11ax HE40	54/5270	-0.54	-0.31	0.78	1.01	3.41	9.69	PASS
	62/5310	-0.88	-0.65	0.74	0.97	3.25	9.69	PASS
802.11ax HE80	58/5290	-3.46	-3.12	-2.35	-2.01	0.48	9.69	PASS
802.11ax HE160	50/5250	-7.11	-6.75	-5.35	-4.99	-2.77	9.69	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1 in dBm}/10)} + 10^{(\text{PSD antenna 2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)(i): If all antennas have the same gain,

Directional gain = $G_{\text{ANT}} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain= $10\log(N_{\text{ant}}/N_{\text{ss}})$ dB,

so Directional gain= $G_{\text{ANT}} + \text{Array Gain} = 4.30 + 10\log(2/1) = 7.31 > 6$ dBi.

So the PSD limit is $11 - (\text{Directional gain} - 6 \text{ dBi}) = 11 - (7.31 - 6) = 9.69$ dBm.

U-NII-2C

Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)		
		Read Value (dBm/MHz)	PSD (dBm/MHz)	Read Value (dBm/MHz)	PSD (dBm/MHz)			
802.11a	100/5500	2.69	2.87	3.51	3.69	6.31	9.69	PASS
	120/5600	3.59	3.77	2.88	3.06	6.44	9.69	PASS
	140/5700	3.33	3.51	3.77	3.95	6.75	9.69	PASS
	144/5720	3.93	4.11	4.13	4.31	7.22	9.69	PASS
802.11n HT20	100/5500	2.90	3.24	3.42	3.76	6.52	9.69	PASS
	120/5600	3.46	3.80	3.02	3.36	6.60	9.69	PASS
	140/5700	3.22	3.56	3.66	4.00	6.80	9.69	PASS
	144/5720	3.67	4.01	4.07	4.41	7.22	9.69	PASS
802.11n HT40	102/5510	-0.42	-0.19	0.34	0.57	3.22	9.69	PASS
	118/5590	0.46	0.69	-0.17	0.06	3.40	9.69	PASS
	134/5670	0.19	0.42	0.29	0.52	3.48	9.69	PASS
	142/5710	0.16	0.39	0.42	0.65	3.53	9.69	PASS
802.11ac VHT20	100/5500	3.28	3.62	3.44	3.78	6.71	9.69	PASS
	120/5600	3.90	4.24	2.96	3.30	6.81	9.69	PASS
	140/5700	3.90	4.24	3.56	3.90	7.08	9.69	PASS
	144/5720	4.15	4.49	4.70	5.04	7.78	9.69	PASS
802.11ac VHT40	102/5510	-0.44	-0.14	0.62	0.92	3.43	9.69	PASS
	118/5590	0.88	1.18	0.10	0.40	3.82	9.69	PASS
	134/5670	0.27	0.57	0.24	0.54	3.57	9.69	PASS
	142/5710	0.24	0.54	1.08	1.38	3.99	9.69	PASS
802.11ac VHT80	122/5610	-2.77	-2.48	-3.50	-3.21	0.18	9.69	PASS
	138/5690	-2.88	-2.59	-3.05	-2.76	0.34	9.69	PASS
802.11ac VHT160	114/5570	-5.89	-5.60	-5.49	-5.20	-2.39	9.69	PASS
802.11ax HE20	100/5500	2.28	2.54	3.11	3.37	5.99	9.69	PASS
	120/5600	3.21	3.47	3.06	3.32	6.41	9.69	PASS
	140/5700	2.99	3.25	3.27	3.53	6.40	9.69	PASS
	144/5720	3.18	3.44	3.63	3.89	6.68	9.69	PASS
802.11ax HE40	102/5510	0.09	0.32	0.35	0.58	3.46	9.69	PASS
	118/5590	0.43	0.66	-0.59	-0.36	3.19	9.69	PASS
	134/5670	-0.06	0.17	-0.30	-0.07	3.06	9.69	PASS
	142/5710	0.21	0.44	0.84	1.07	3.78	9.69	PASS
802.11ax HE80	122/5610	-3.40	-3.06	-3.79	-3.45	-0.24	9.69	PASS
	138/5690	-3.13	-2.79	-2.90	-2.56	0.34	9.69	PASS
802.11ax HE160	114/5570	-6.30	-5.94	-6.00	-5.64	-2.78	9.69	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density= $10\log(10^{(\text{PSD antenna 1 in dBm}/10)}+10^{(\text{PSD antenna 2 in dBm}/10)})$

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(i): If all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$, For PSD measurements on all devices, Array Gain = $10\log(N_{ant}/N_{ss})\text{dB}$, so Directional gain = $G_{ANT} + \text{Array Gain} = 4.30 + 10\log(2/1) = 7.31 > 6 \text{ dBi}$.
So the PSD limit is $11 - (\text{Directional gain} - 6 \text{ dBi}) = 11 - (7.31 - 6) = 9.69 \text{ dBm}$.

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Mode	Channel /Frequency (MHz)	Power Spectral Density					Limit (dBm /MHz)	Conclusion
		Antenna 1		Antenna 2		Total PSD (dBm/MHz)		
		Read Value (dBm/ 470kHz)	PSD (dBm/ 500kHz)	Read Value (dBm/ 470kHz)	PSD (dBm/ 500kHz)			
802.11a	144/5720	-0.07	0.38	0.94	1.39	3.92	28.69	PASS
	149/5745	-0.12	0.33	0.06	0.51	3.43	28.69	PASS
	157/5785	0.26	0.71	-0.15	0.30	3.52	28.69	PASS
	165/5825	-0.41	0.04	-0.93	-0.48	2.80	28.69	PASS
802.11n HT20	144/5720	0.11	0.72	0.71	1.32	4.04	28.69	PASS
	149/5745	-0.18	0.43	-0.30	0.31	3.38	28.69	PASS
	157/5785	-0.58	0.03	-0.86	-0.25	2.90	28.69	PASS
	165/5825	0.12	0.73	-0.28	0.33	3.54	28.69	PASS
802.11n HT40	142/5710	-3.71	-3.21	-3.21	-2.71	0.06	28.69	PASS
	151/5755	-3.01	-2.51	-3.30	-2.80	0.36	28.69	PASS
	159/5795	-3.43	-2.93	-3.43	-2.93	0.08	28.69	PASS
802.11ac VHT20	144/5720	0.80	1.41	0.17	0.78	4.12	28.69	PASS
	149/5745	0.42	1.03	0.67	1.28	4.17	28.69	PASS
	157/5785	0.40	1.01	0.64	1.25	4.14	28.69	PASS
	165/5825	1.15	1.76	1.19	1.80	4.79	28.69	PASS
802.11ac VHT40	142/5710	-2.55	-1.98	-3.73	-3.16	0.48	28.69	PASS
	151/5755	-2.74	-2.17	-2.62	-2.05	0.90	28.69	PASS
	159/5795	-2.82	-2.25	-2.40	-1.83	0.98	28.69	PASS
802.11ac VHT80	138/5690	-7.02	-6.46	-7.06	-6.50	-3.47	28.69	PASS
	155/5775	-6.34	-5.78	-6.39	-5.83	-2.79	28.69	PASS
802.11ax HE20	144/5720	-0.16	0.37	-0.03	0.50	3.45	28.69	PASS
	149/5745	-0.47	0.06	-0.54	-0.01	3.04	28.69	PASS
	157/5785	-0.37	0.16	-0.26	0.27	3.23	28.69	PASS
	165/5825	0.21	0.74	-0.83	-0.30	3.26	28.69	PASS
802.11ax HE40	142/5710	-3.43	-2.93	-3.14	-2.64	0.23	28.69	PASS
	151/5755	-2.92	-2.42	-3.24	-2.74	0.43	28.69	PASS
	159/5795	-3.43	-2.93	-3.75	-3.25	-0.08	28.69	PASS
802.11ax HE80	138/5690	-7.11	-6.50	-6.89	-6.28	-3.38	28.69	PASS
	155/5775	-6.33	-5.72	-6.71	-6.10	-2.90	28.69	PASS

Note: 1. Power Spectral Density =Read Value+Duty cycle correction factor+10*log(500/470).

2. For Total PSD, according to KDB 662911 D01 Multiple Transmitter Output v02r01 2)a),

the power spectral density=10log(10^(PSD antenna 1 in dBm/10)+10^(PSD antenna 2 in dBm/10))

3. According to KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f(i): If all antennas have the same gain,

Directional gain = G_{ANT} + Array Gain, For PSD measurements on all devices, Array Gain=10log(Nant/Nss)dB,

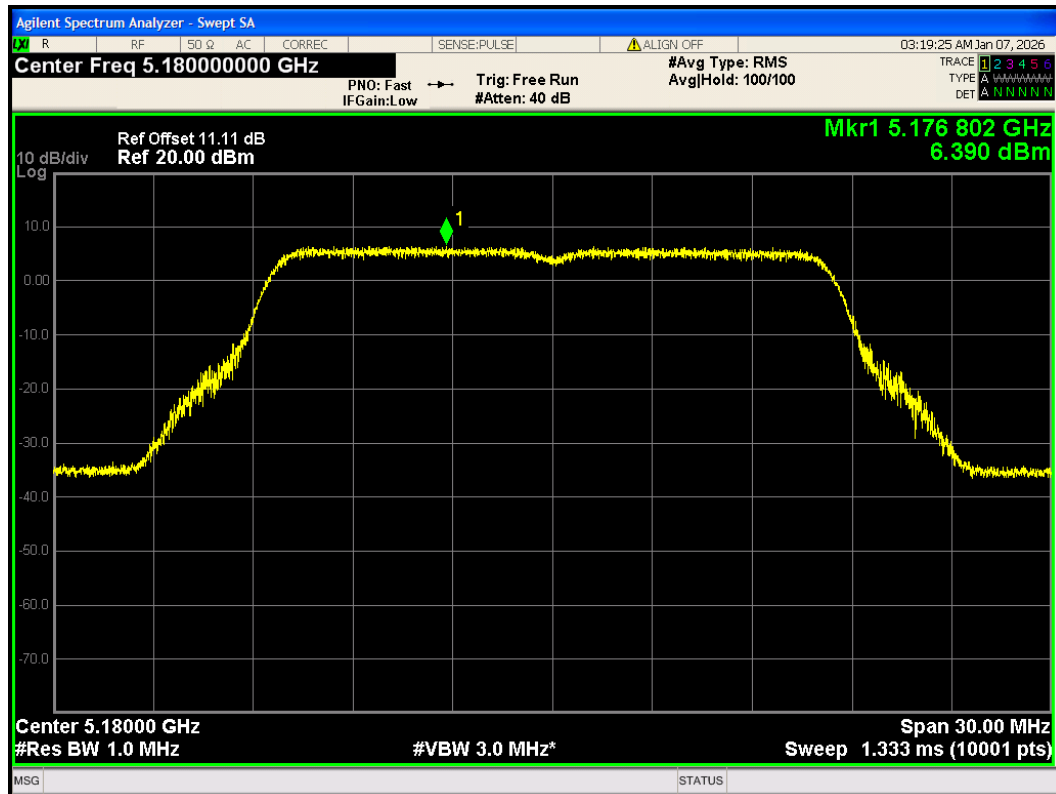
so Directional gain=G_{ANT}+Array Gain=4.30+10log(2/1)=7.31>6 dBi.

So the PSD limit is 30-(Directional gain-6 dBi) =30-(7.31-6)=28.69 dBm.

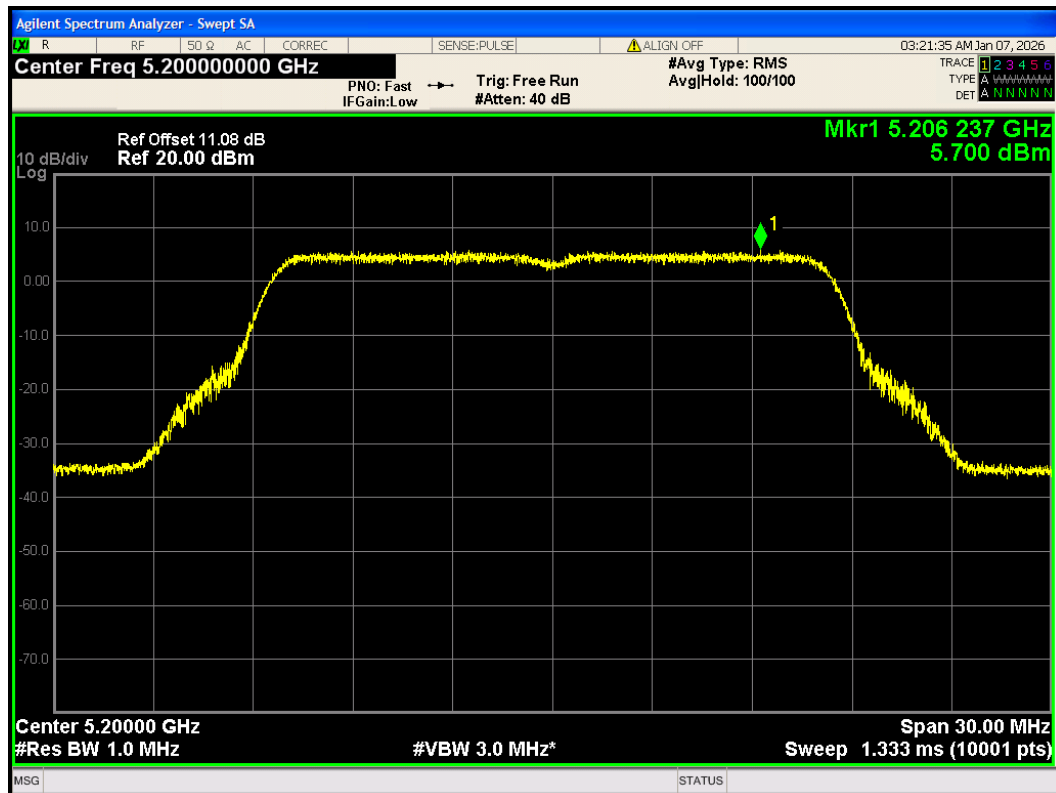
SISO Antenna 1

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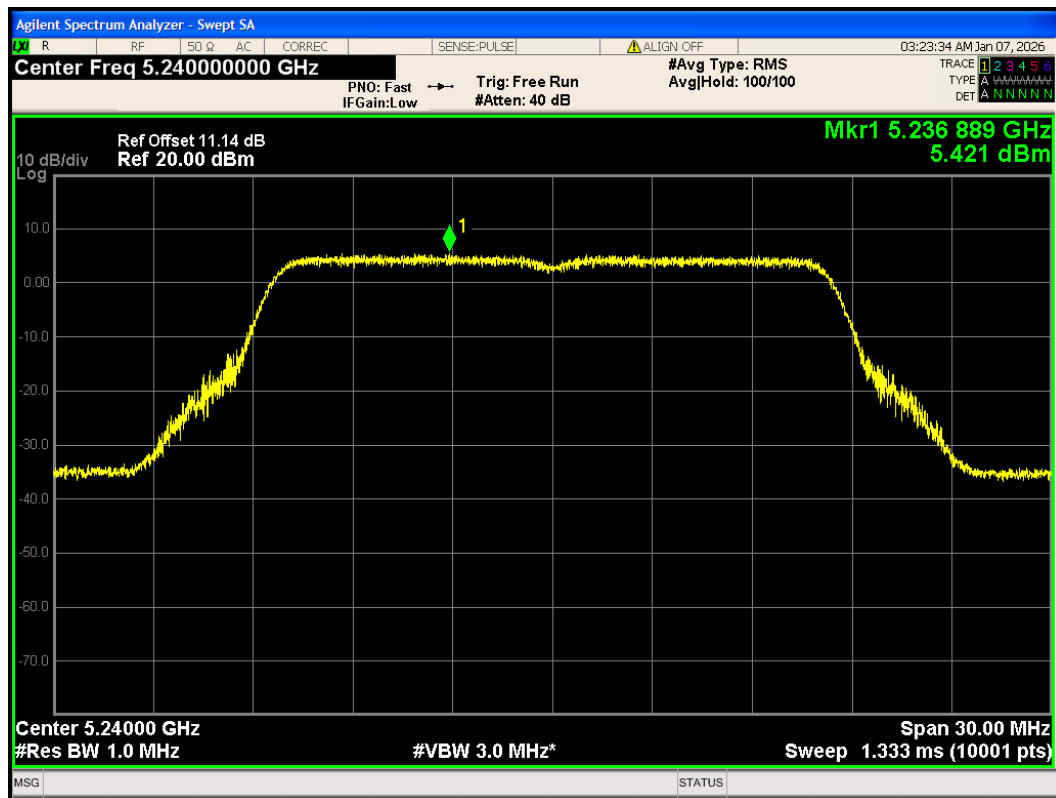
PSD 802.11a 5180MHz



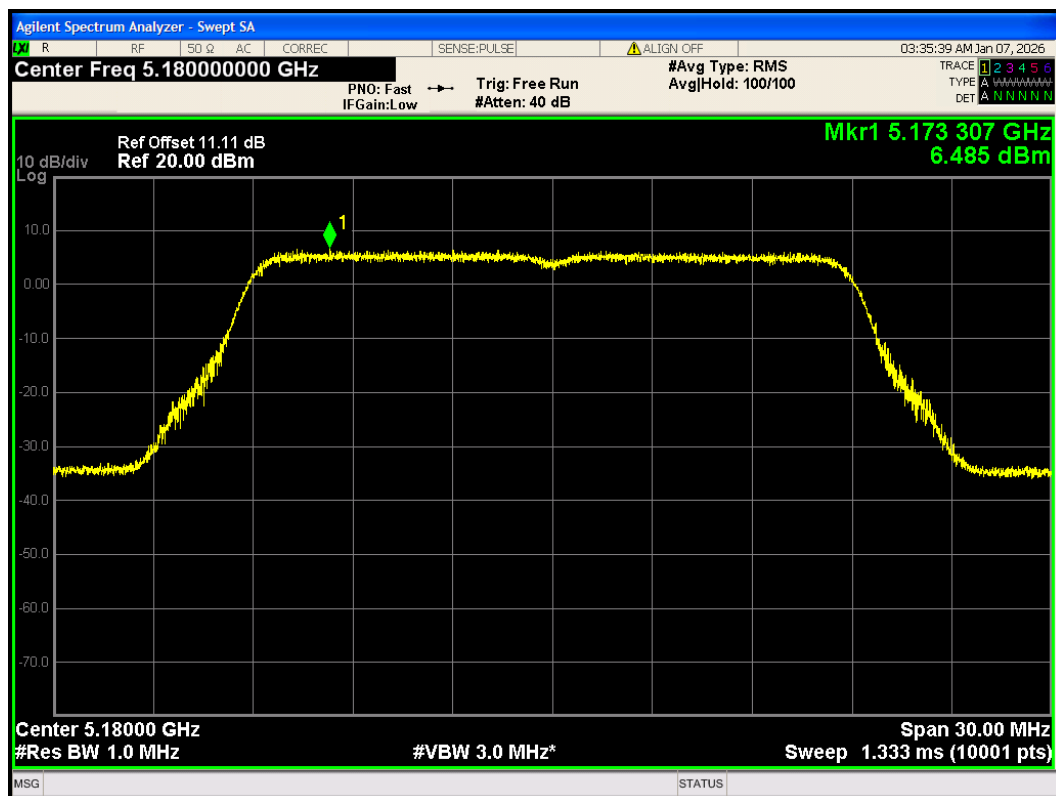
PSD 802.11a 5200MHz



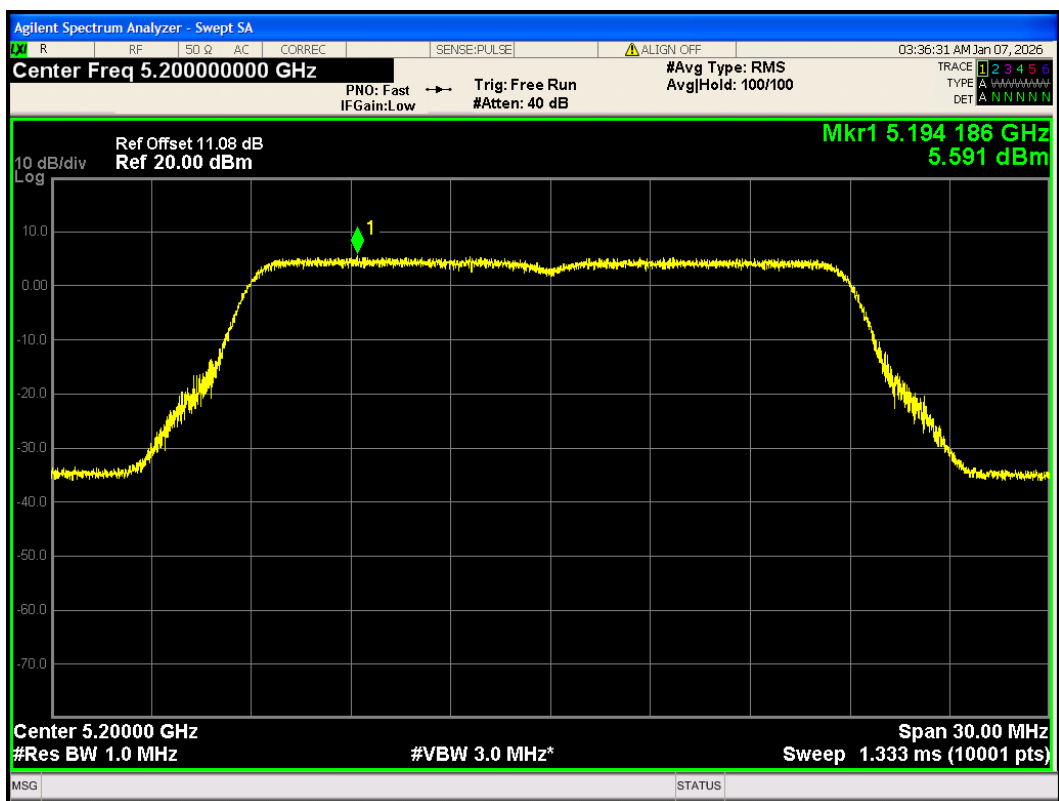
PSD 802.11a 5240MHz



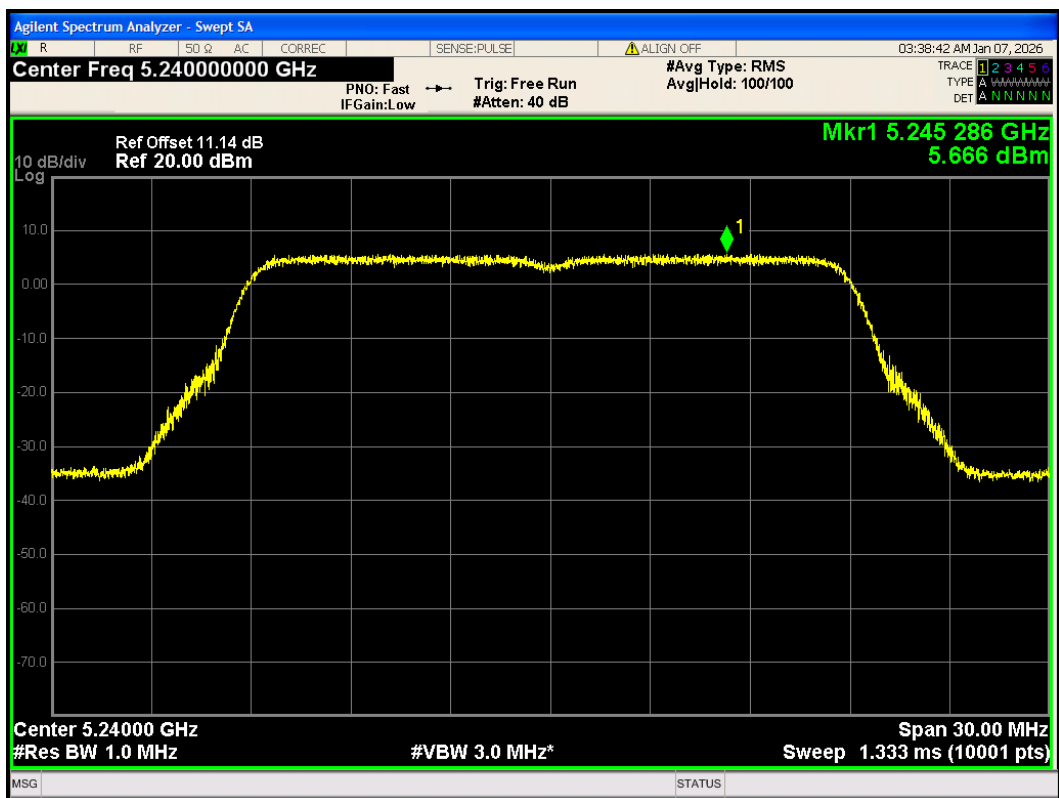
PSD 802.11ac(VHT20) 5180MHz



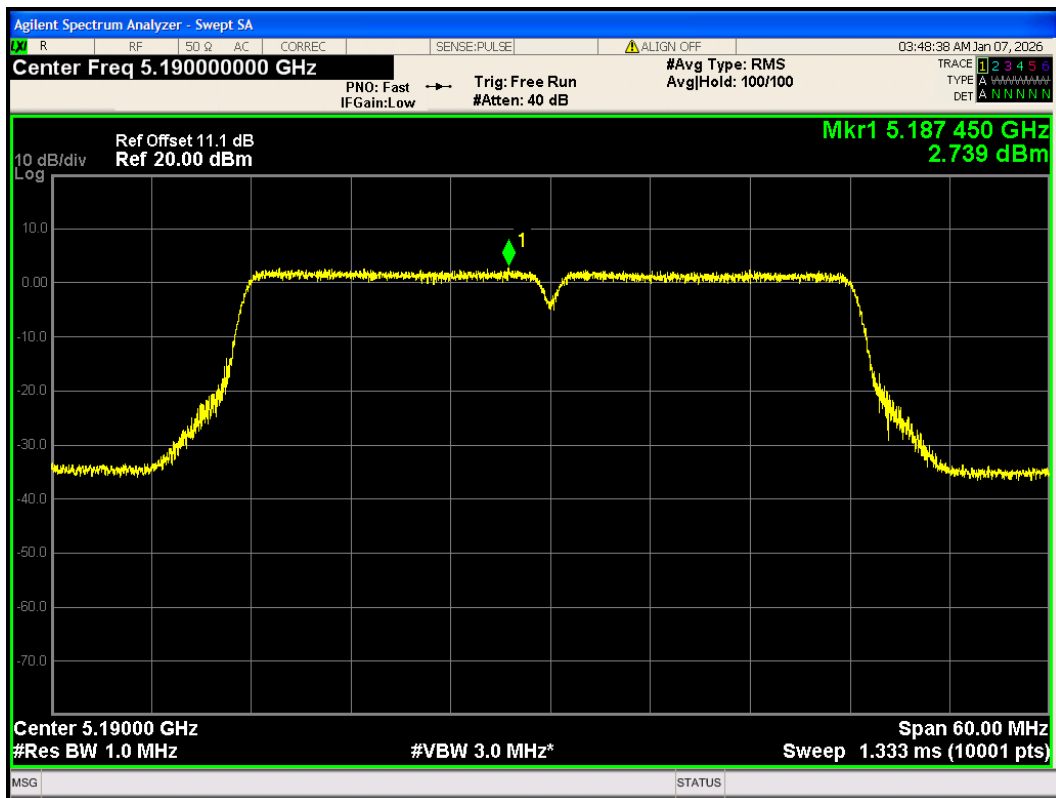
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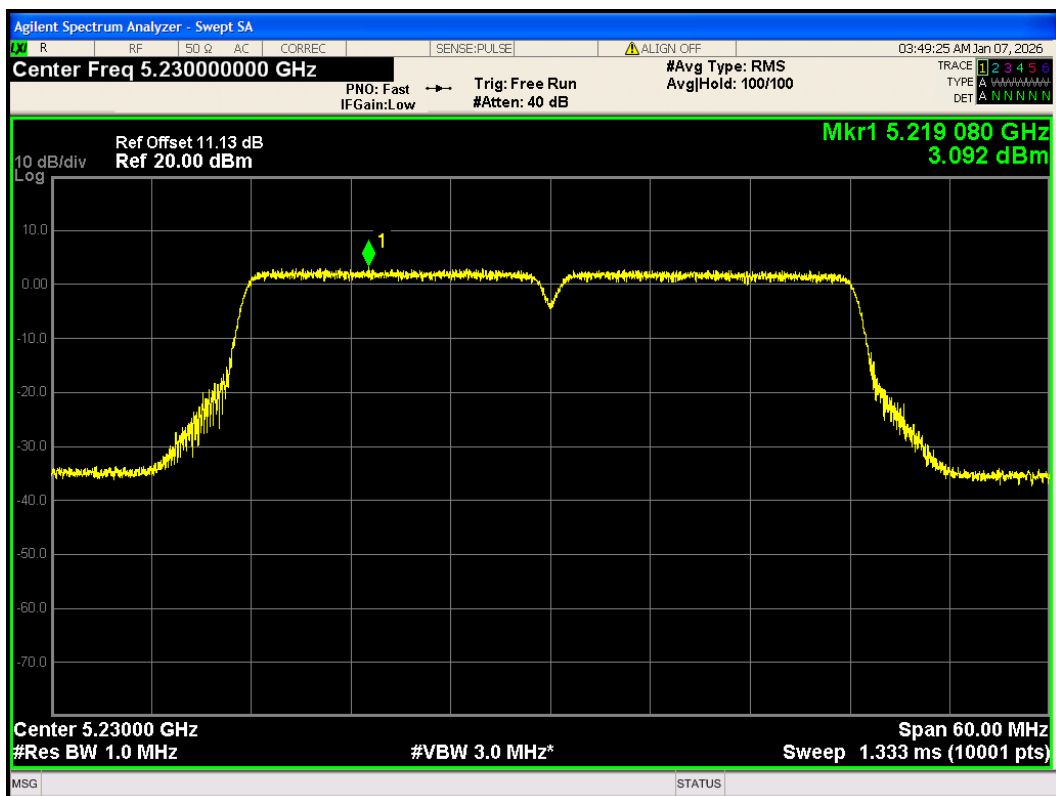
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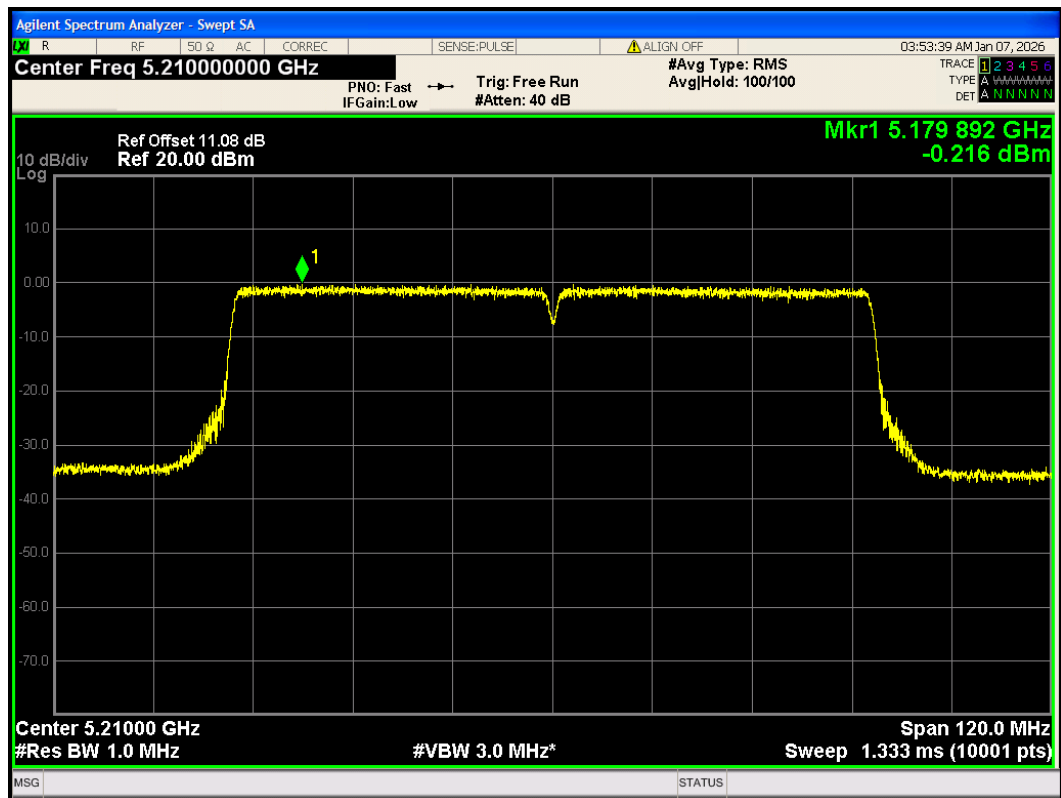
PSD 802.11ac(VHT40) 5190MHz



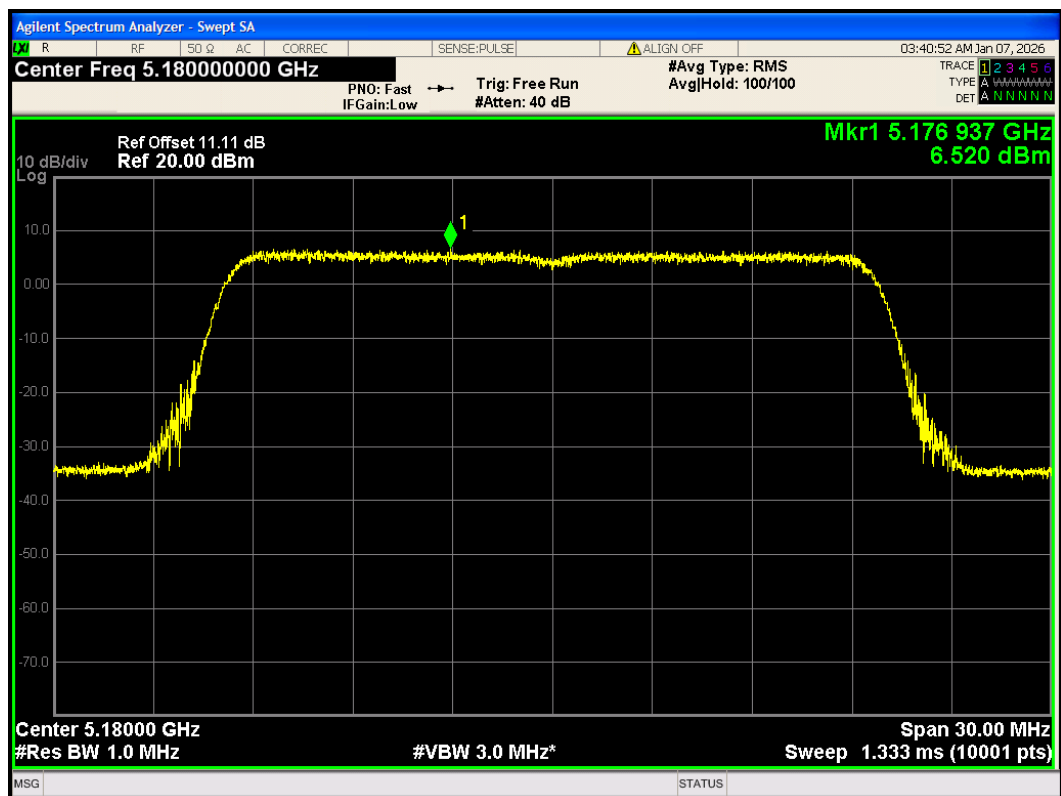
PSD 802.11ac(VHT40) 5230MHz



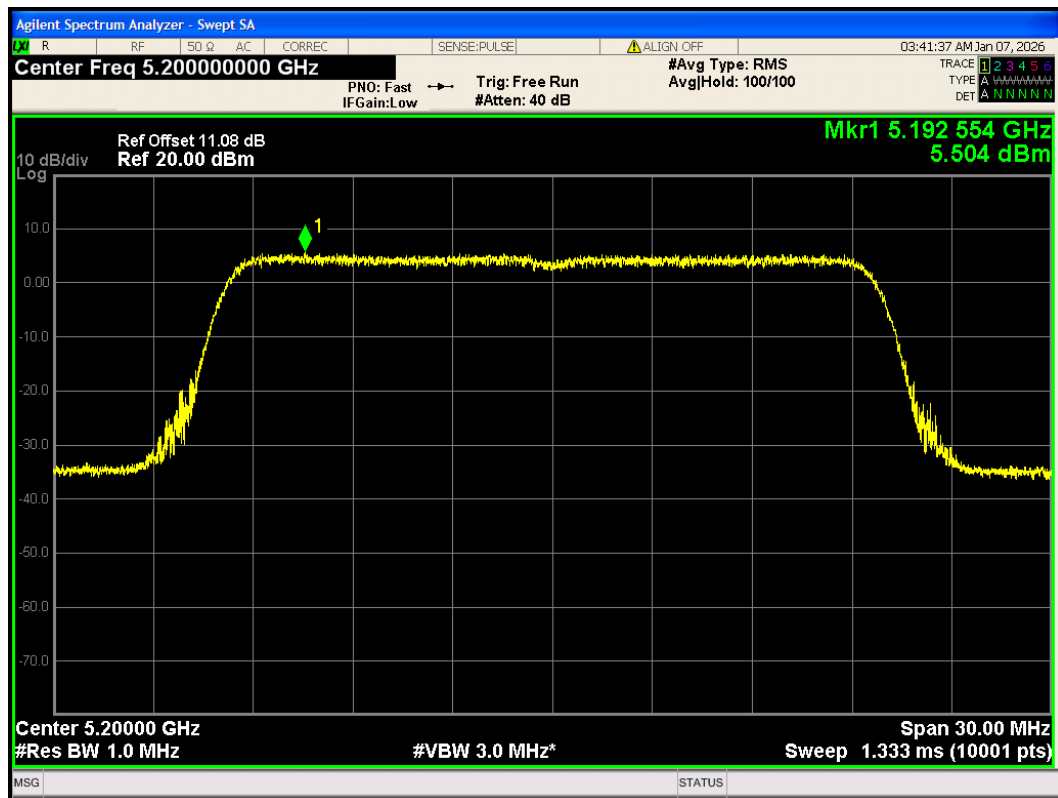
PSD 802.11ac(VHT80) 5210MHz



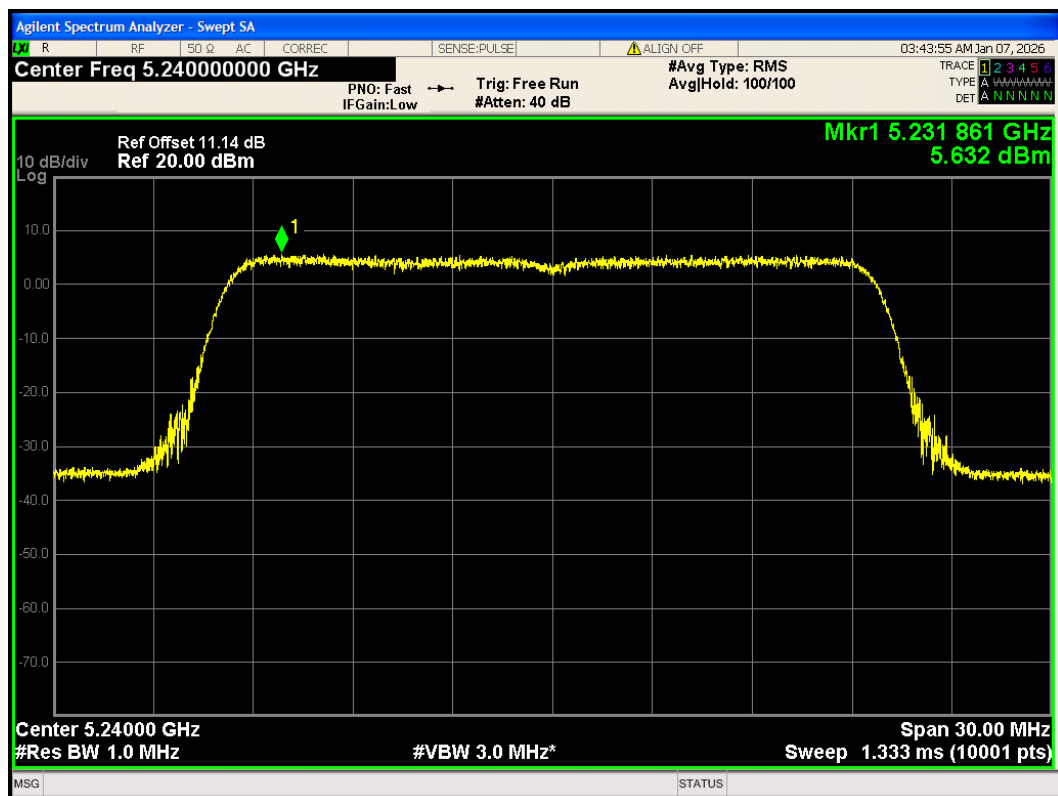
PSD 802.11ax(HE20) 5180MHz



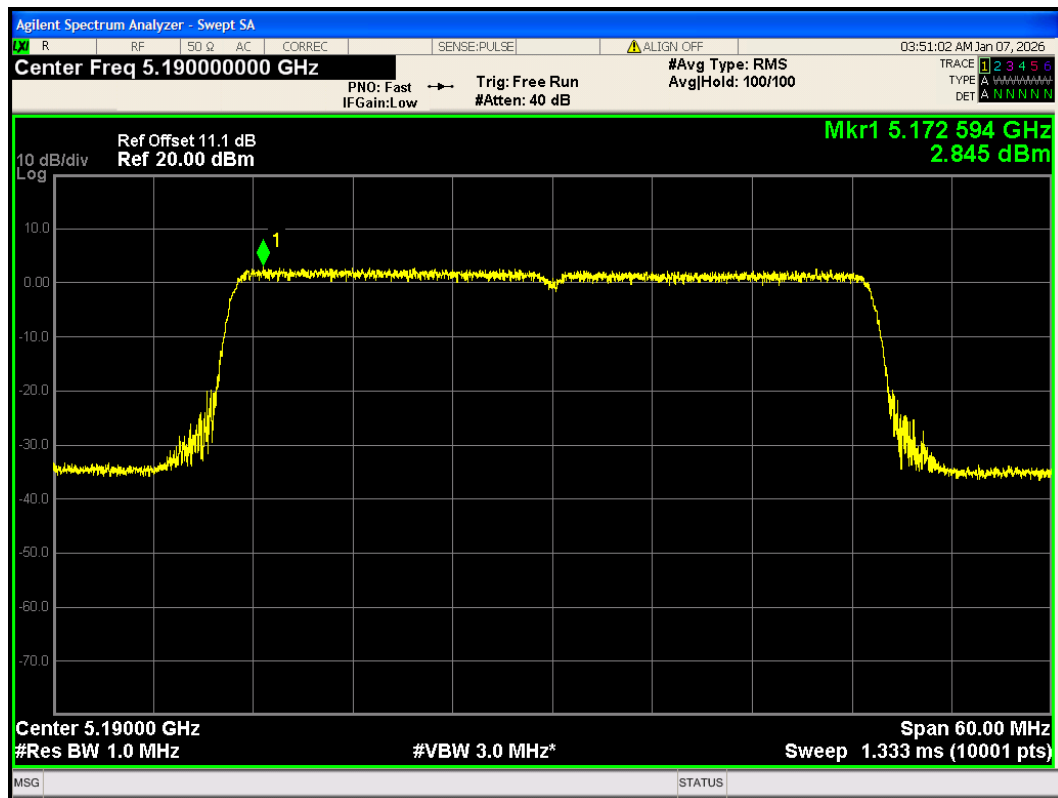
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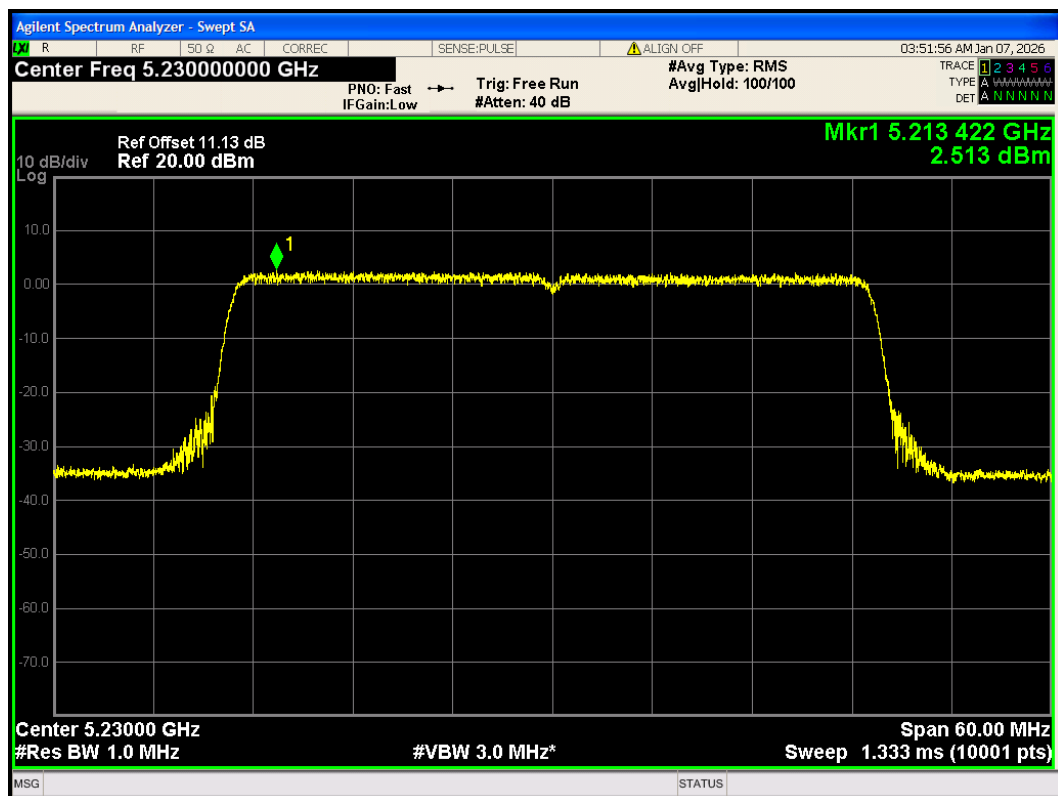
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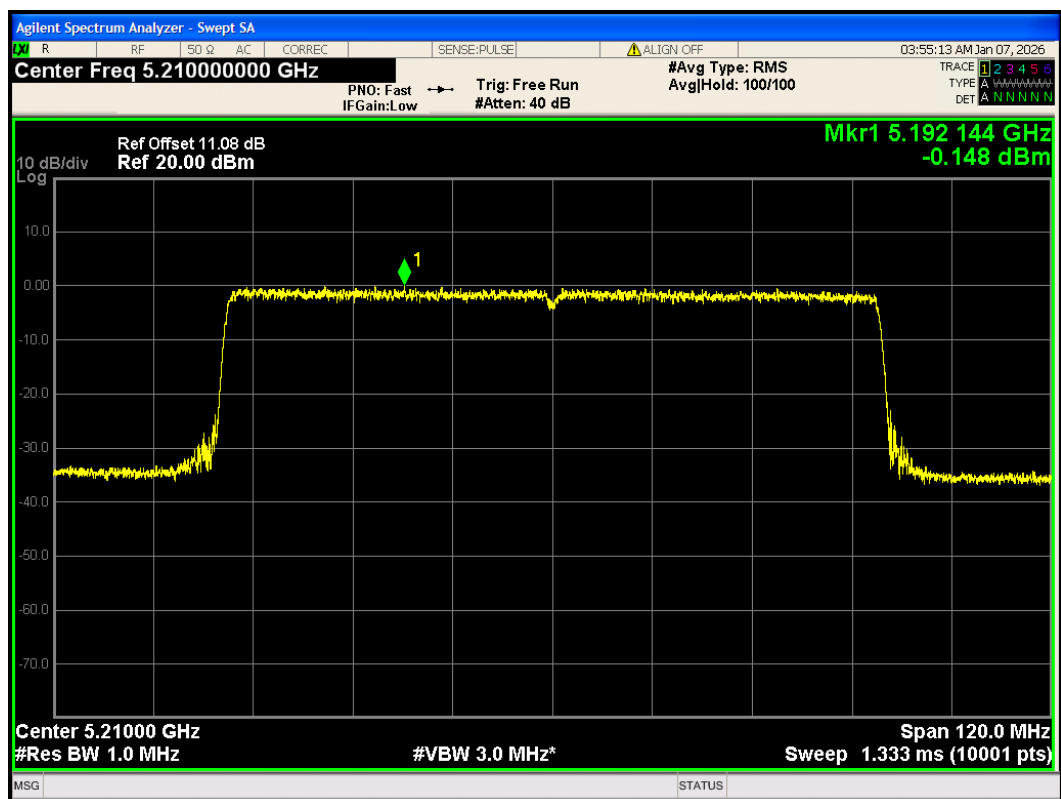
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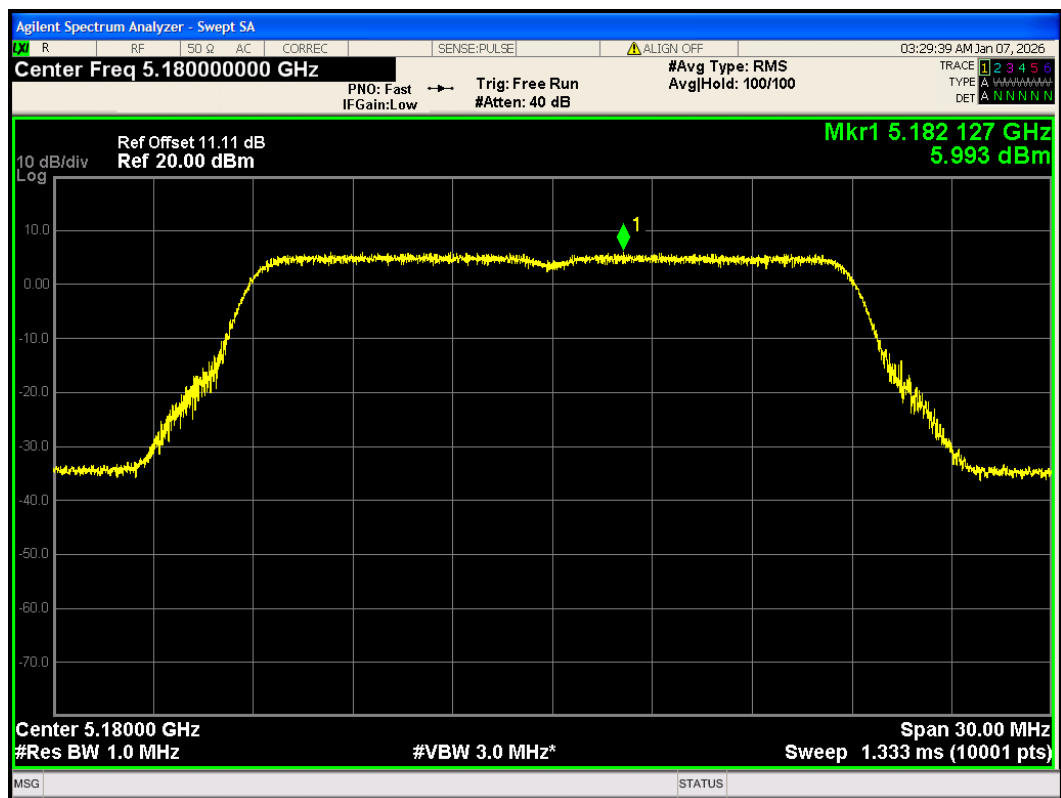
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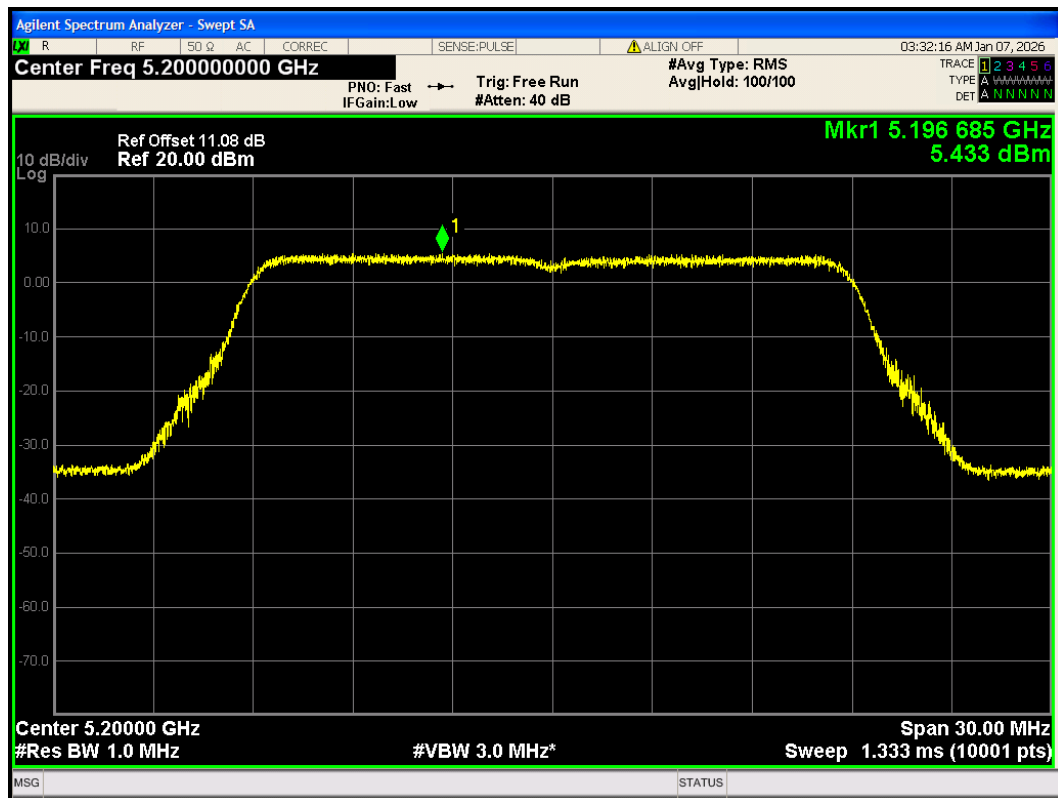
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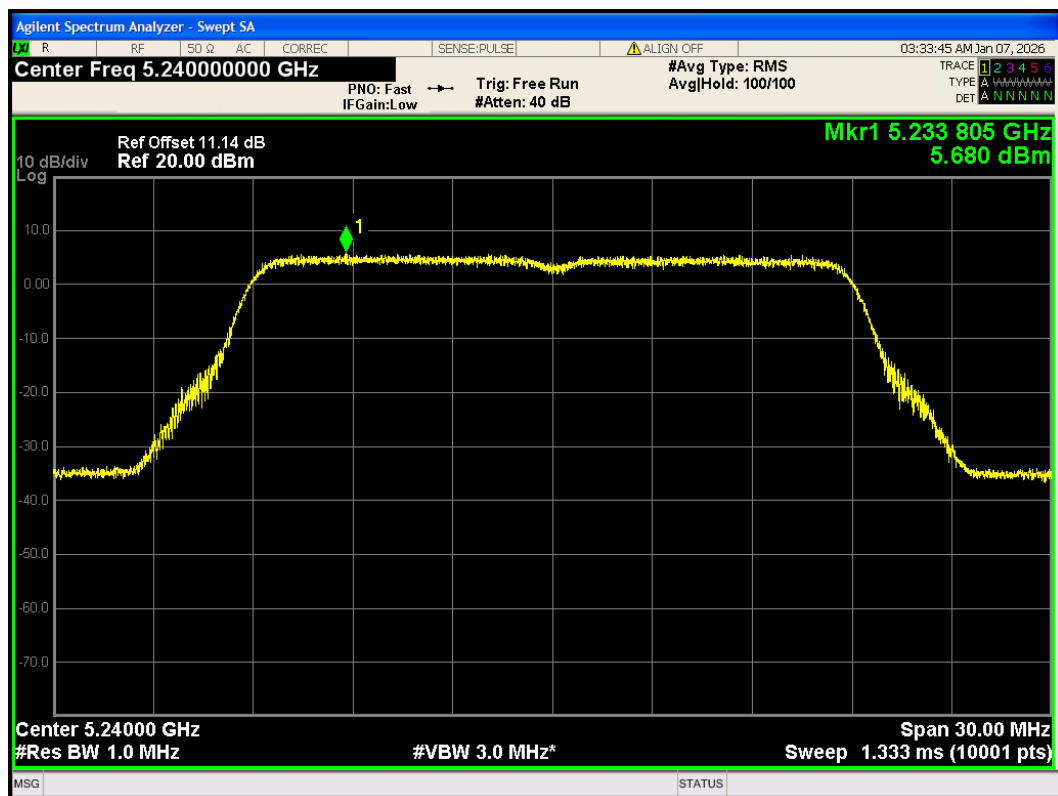
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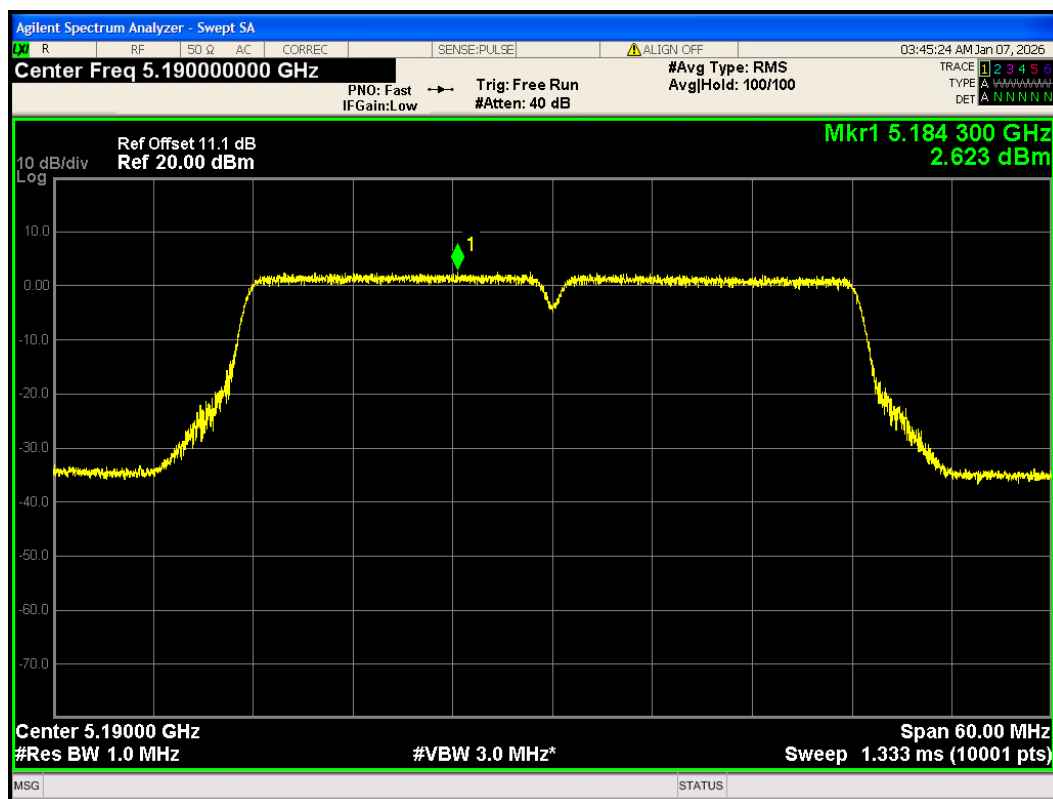
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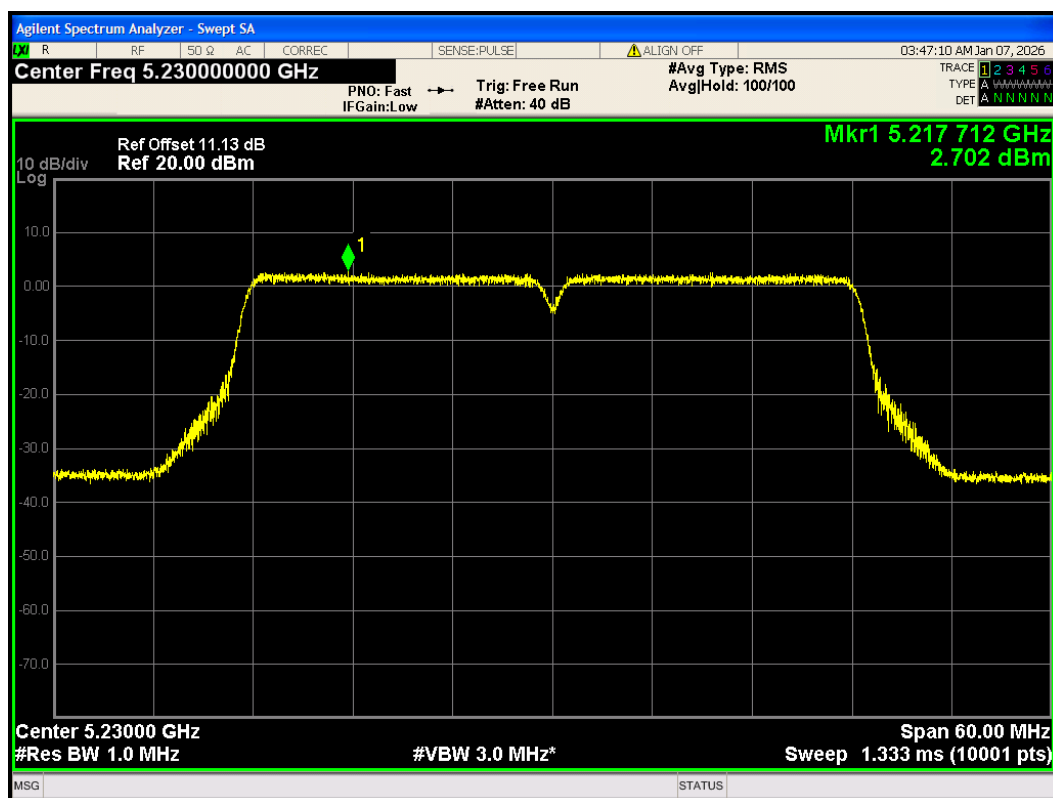
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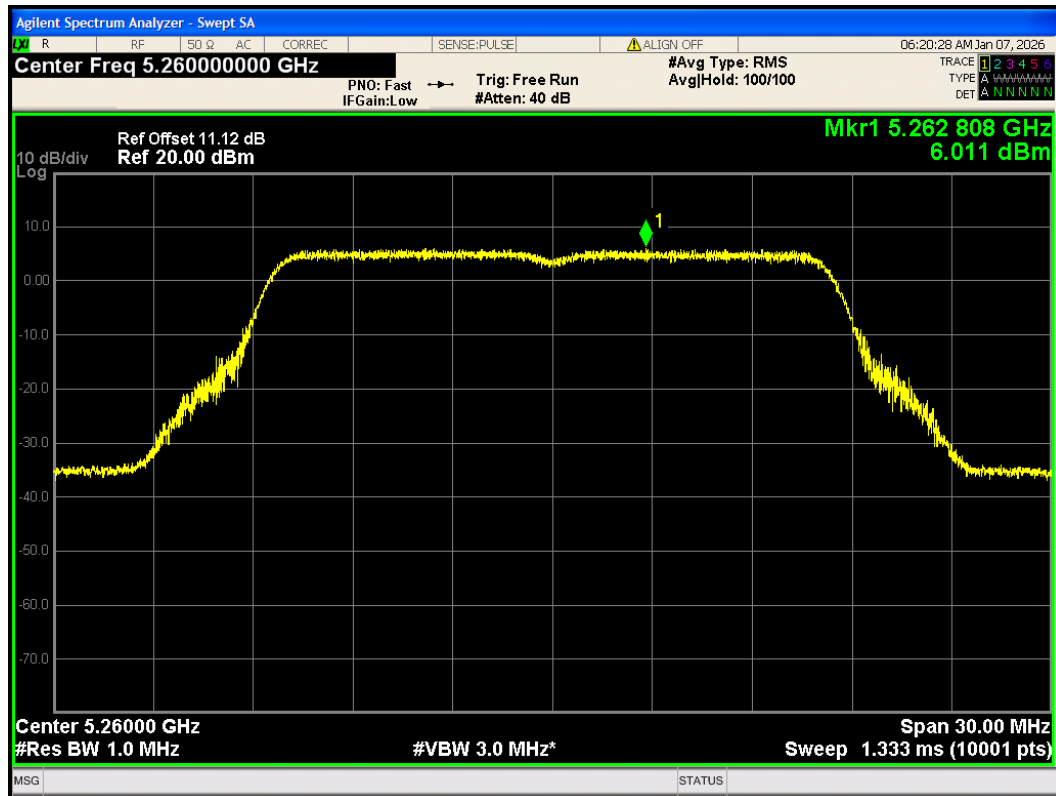
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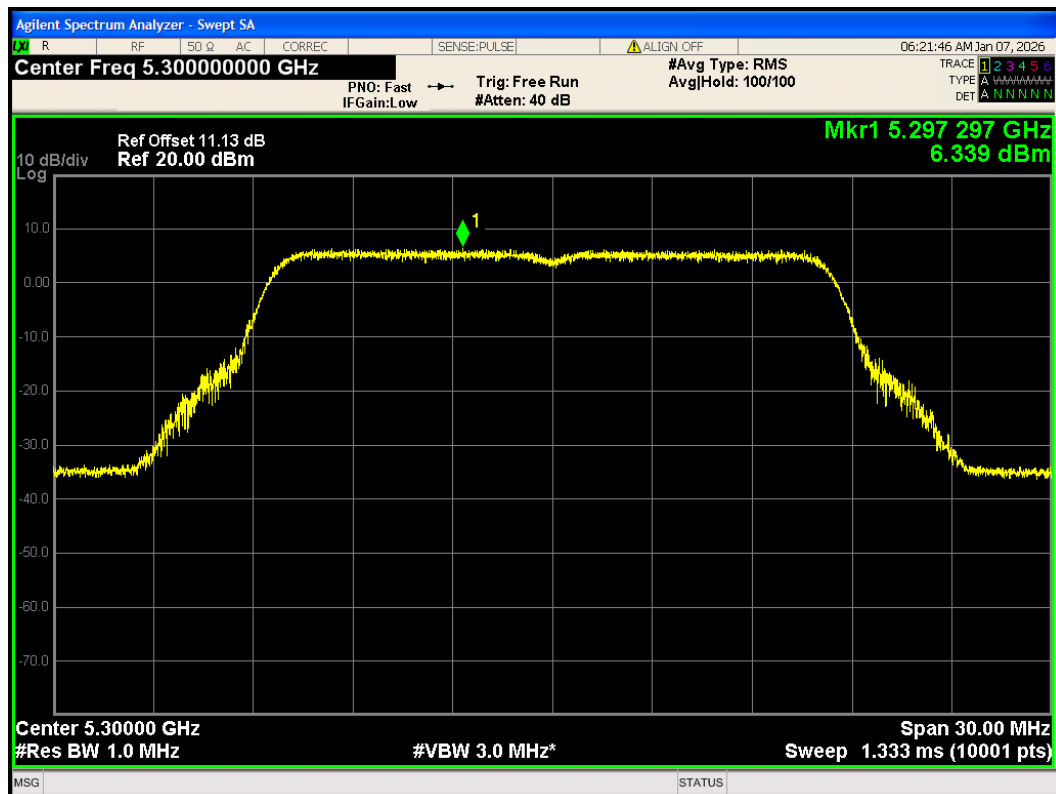
PSD 802.11n(HT40) 5230MHz



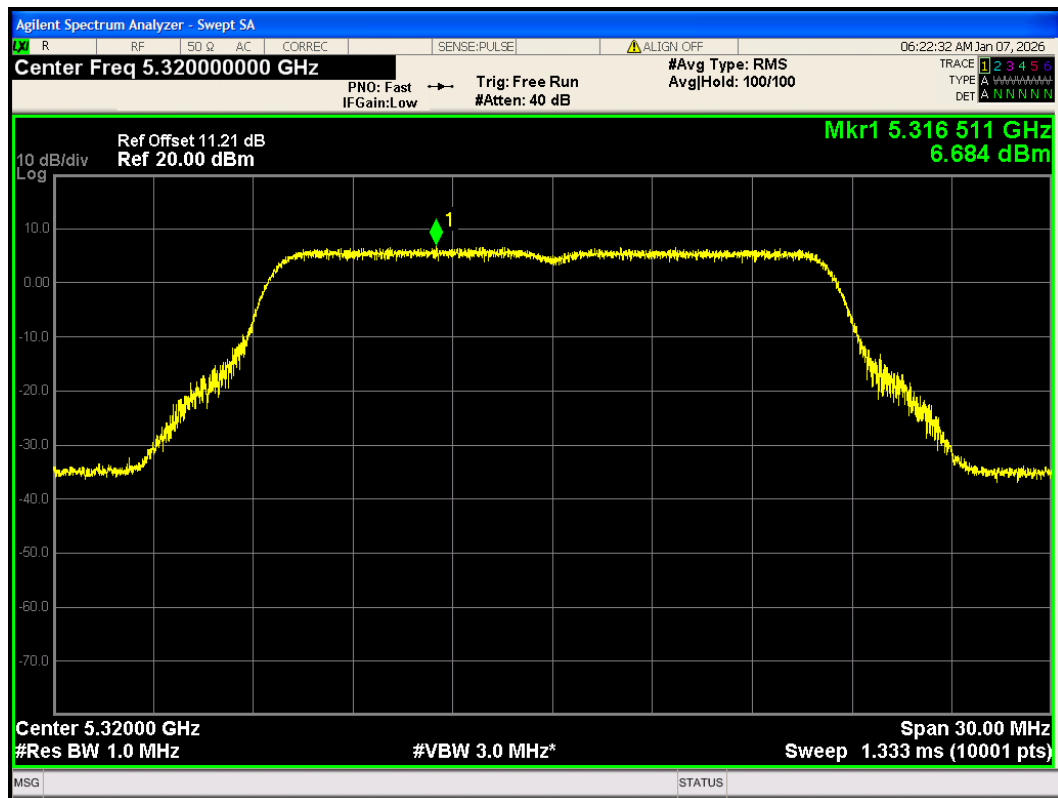
PSD 802.11a 5260MHz



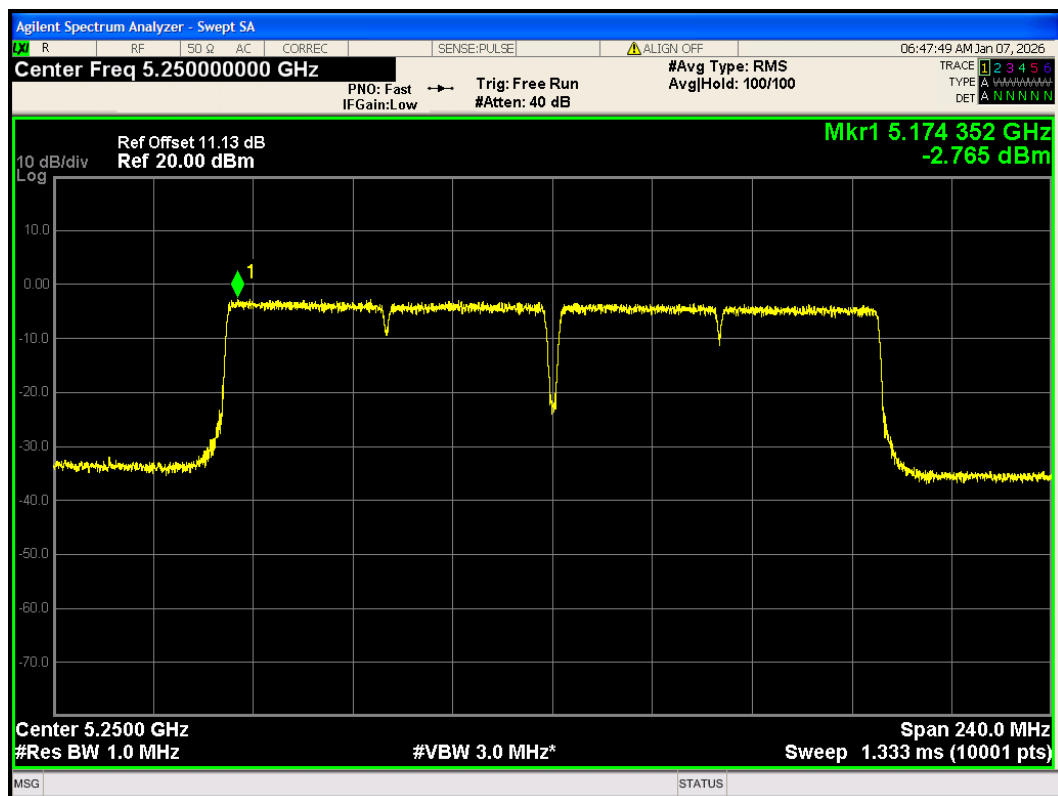
PSD 802.11a 5300MHz



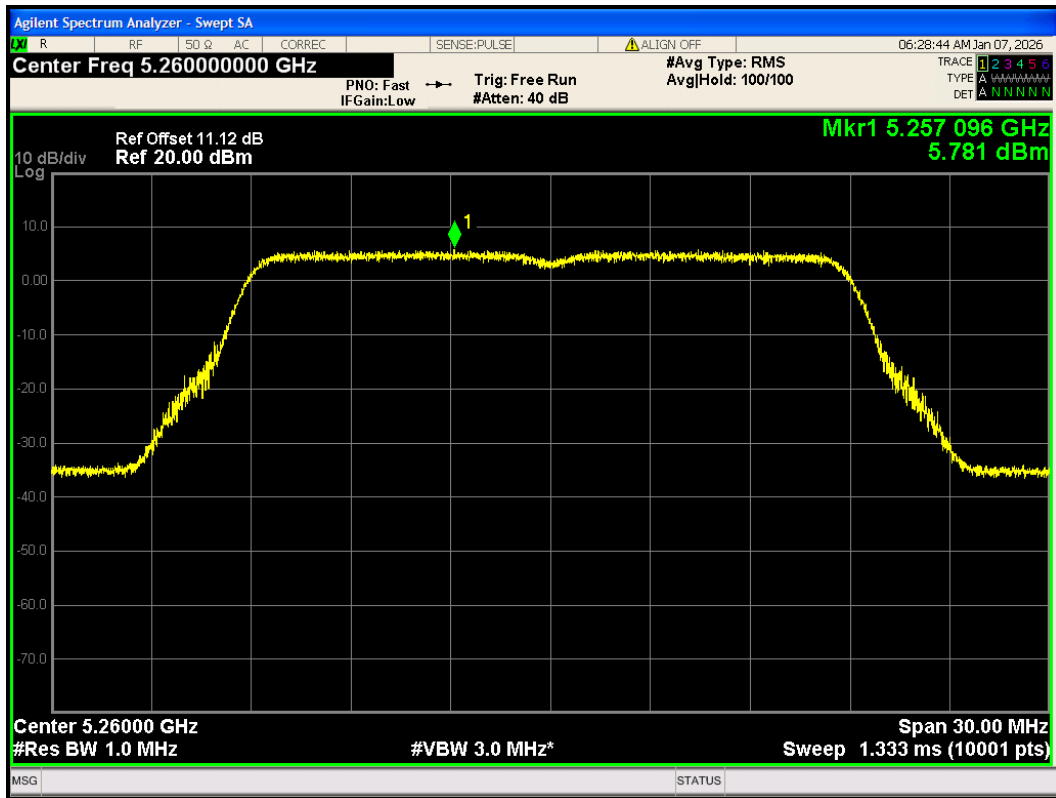
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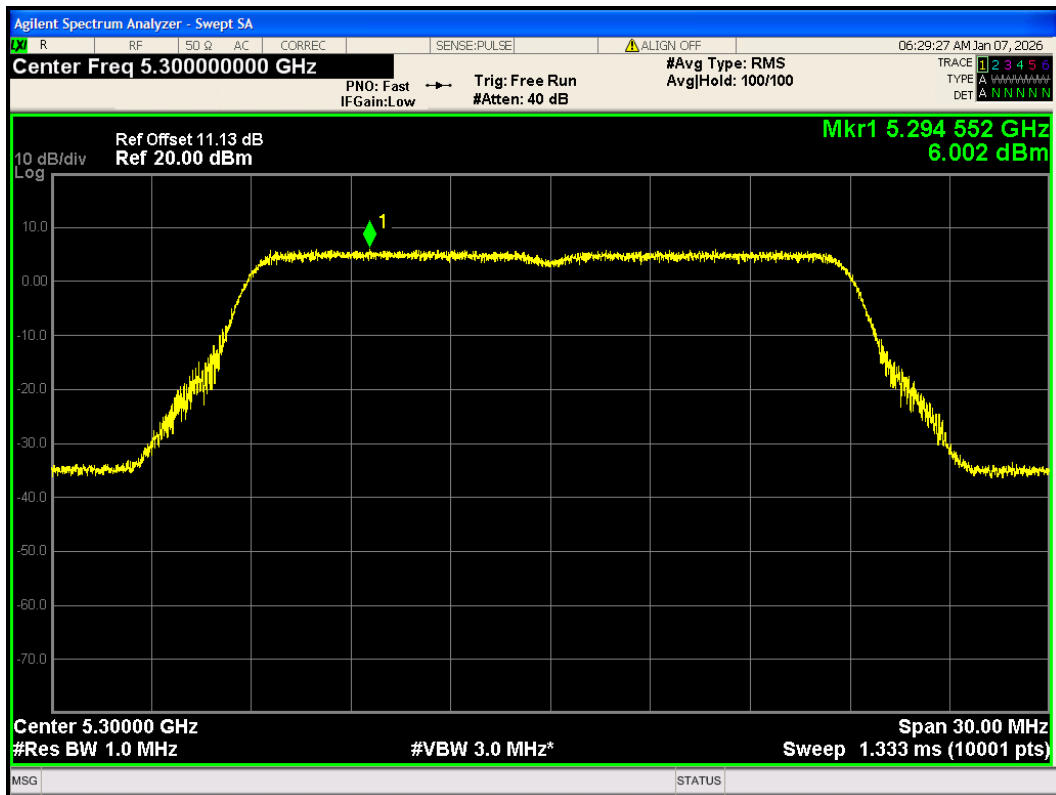
PSD 802.11ac(VHT160) 5250MHz



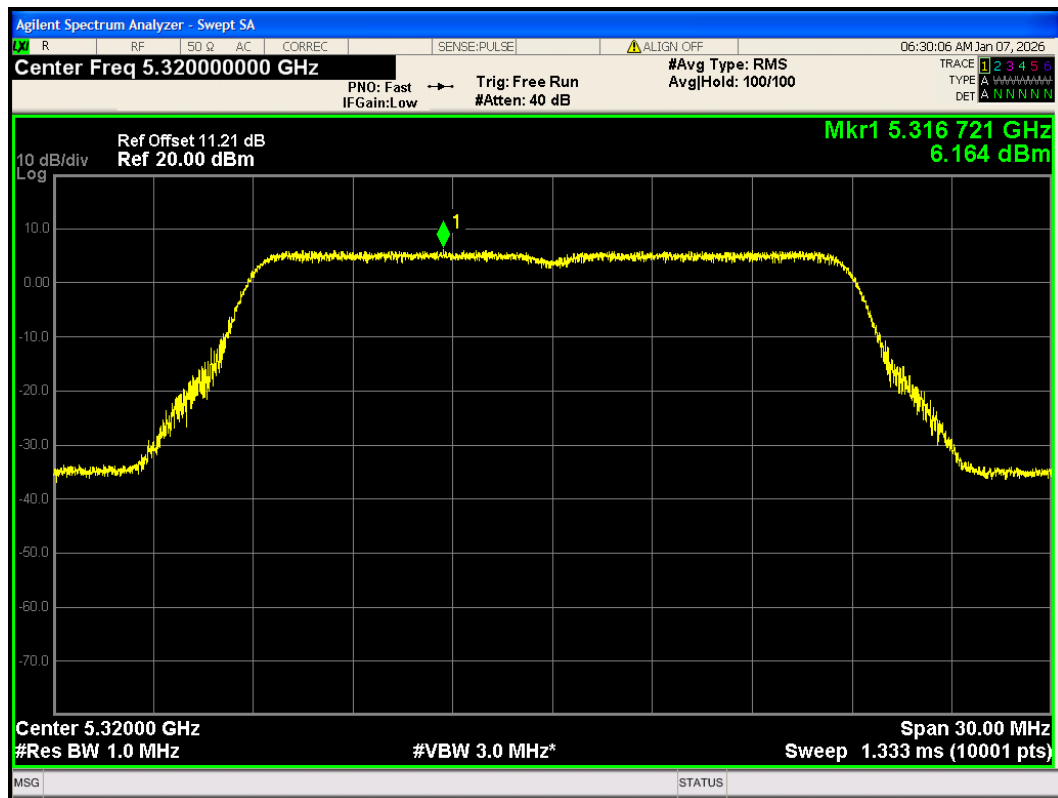
PSD 802.11ac(VHT20) 5260MHz



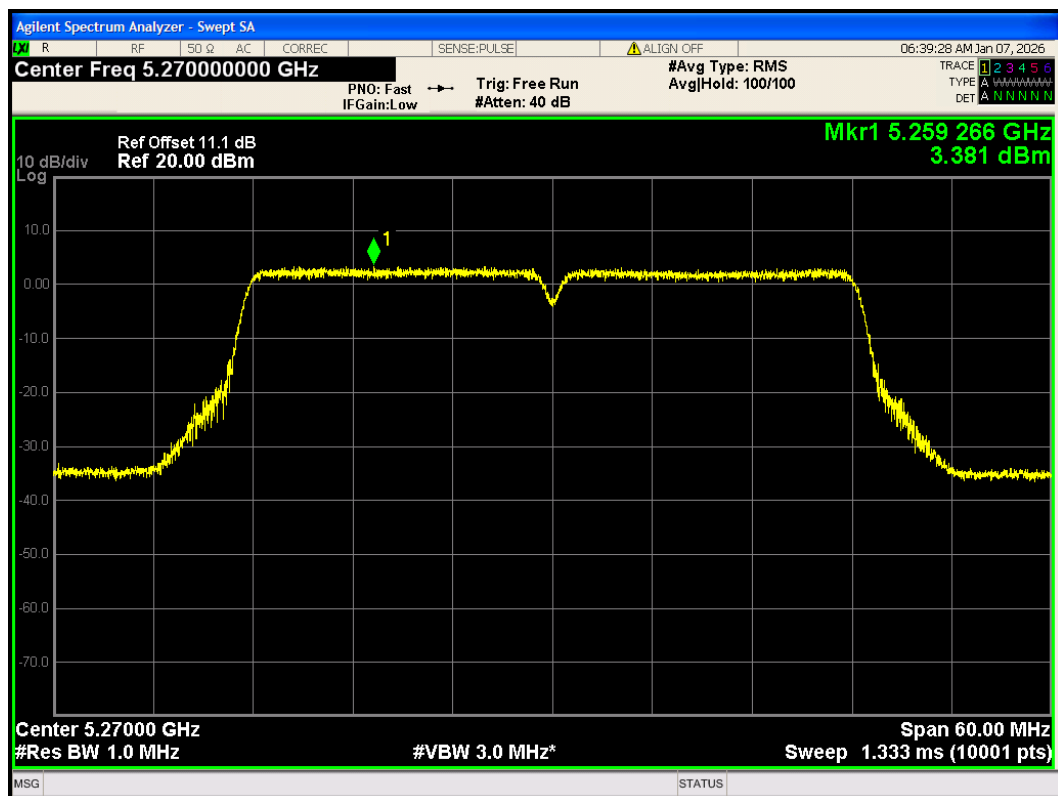
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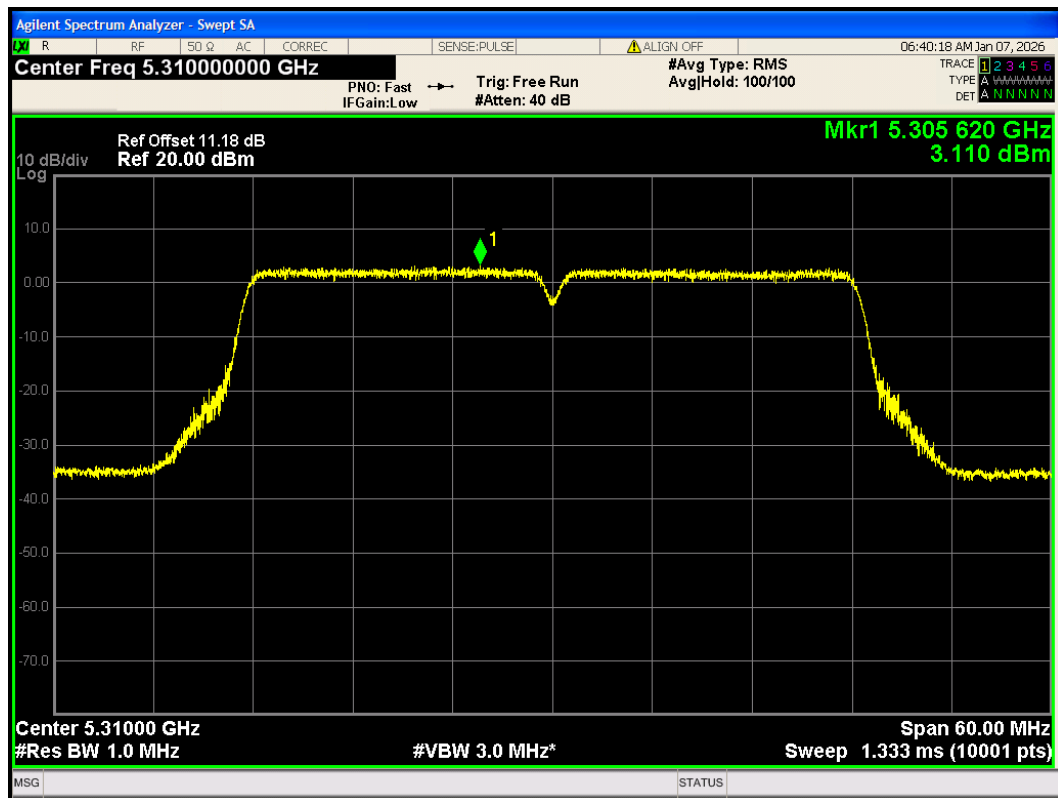
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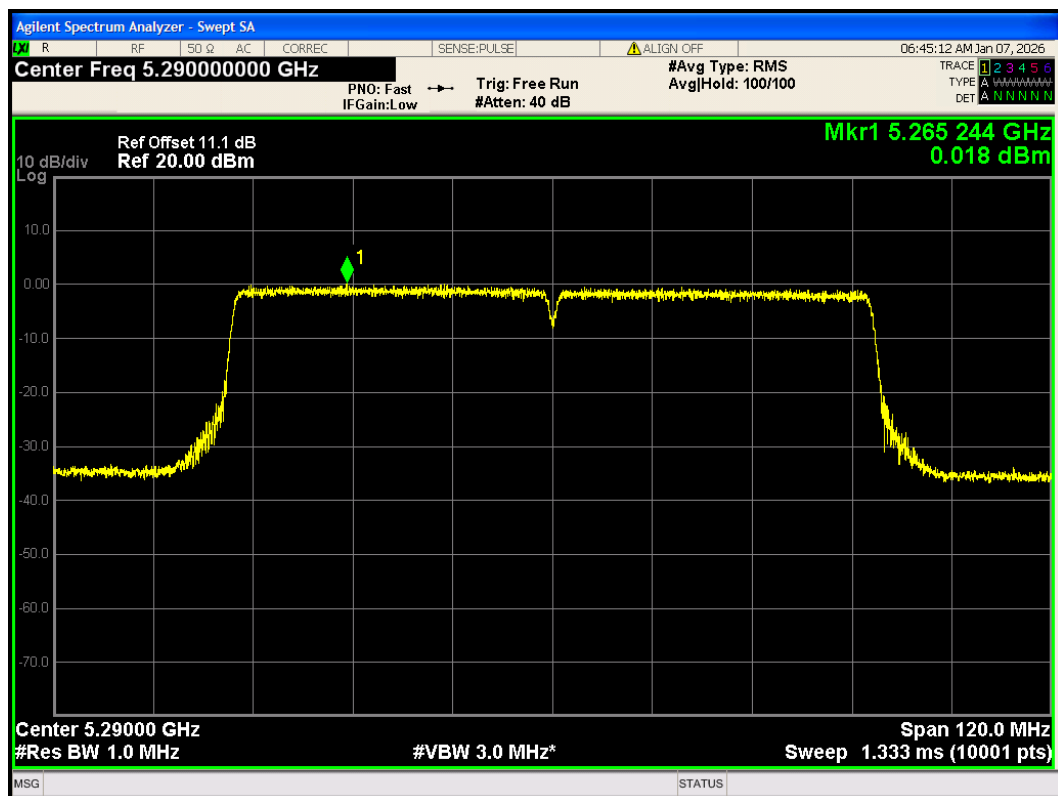
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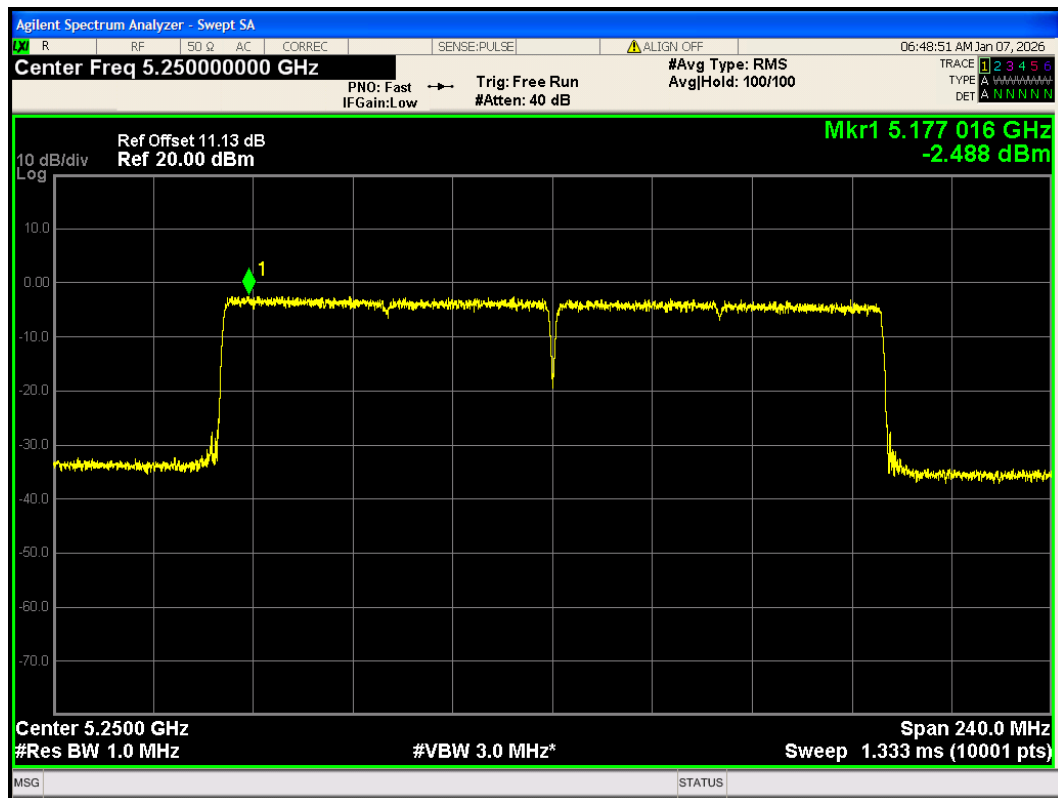
PSD 802.11ac(VHT40) 5310MHz



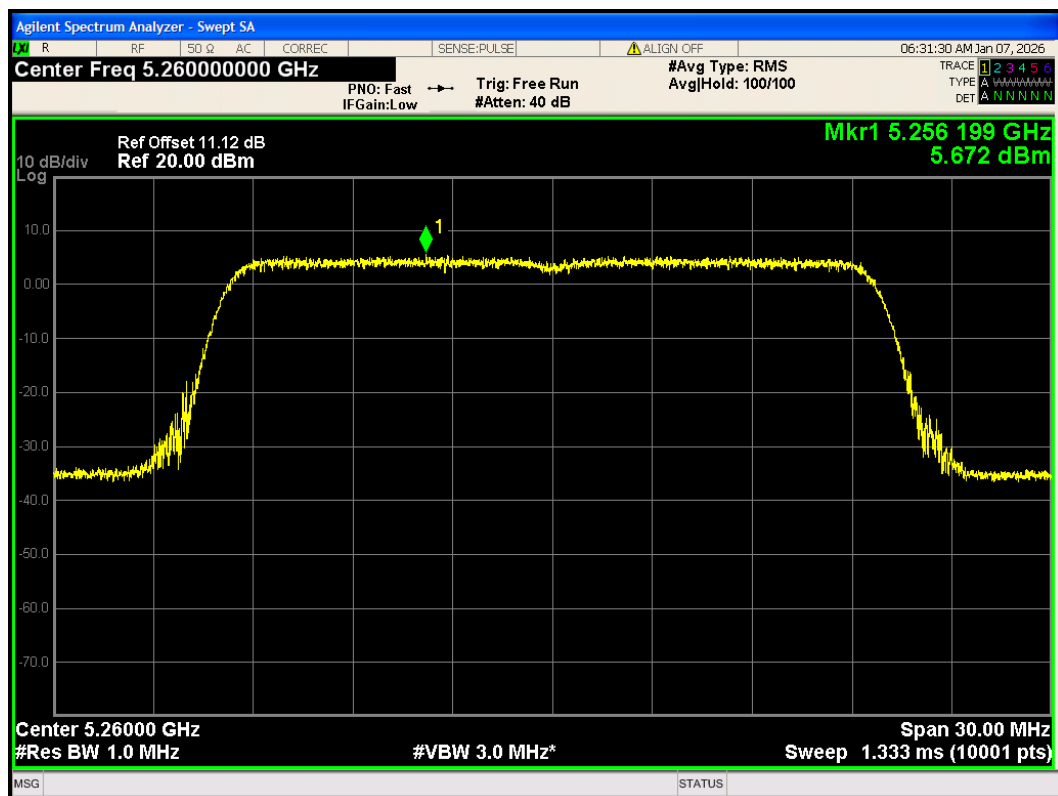
PSD 802.11ac(VHT80) 5290MHz



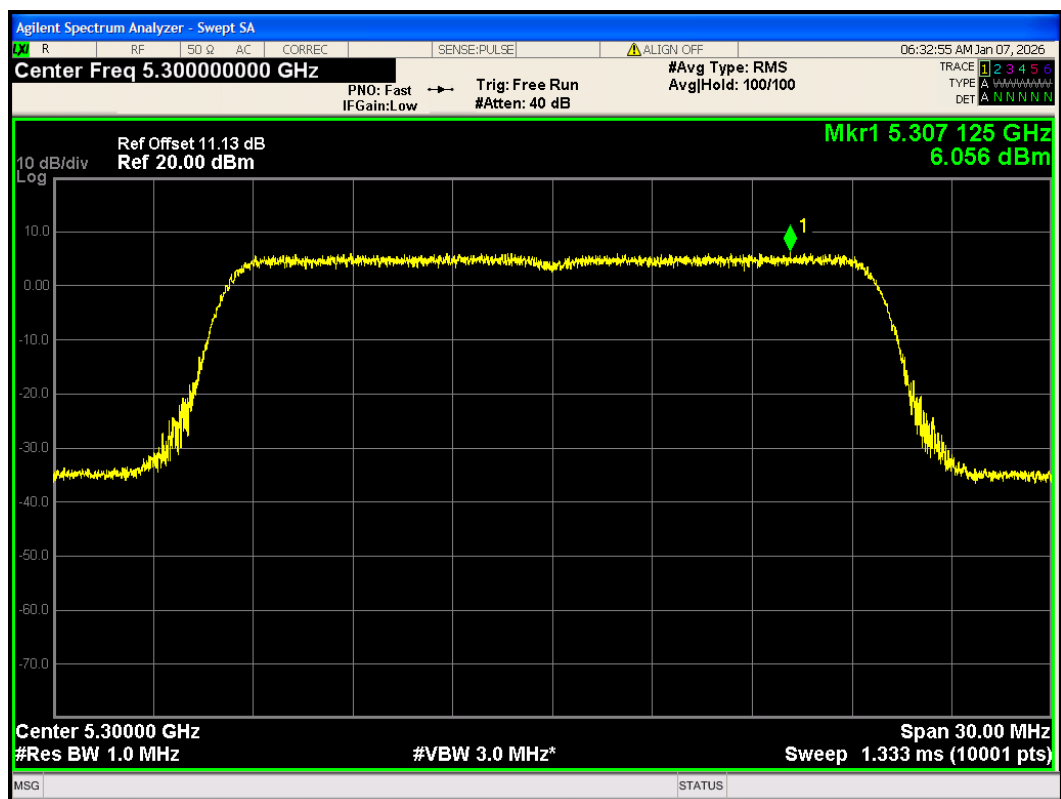
PSD 802.11ax(HE160) 5250MHz



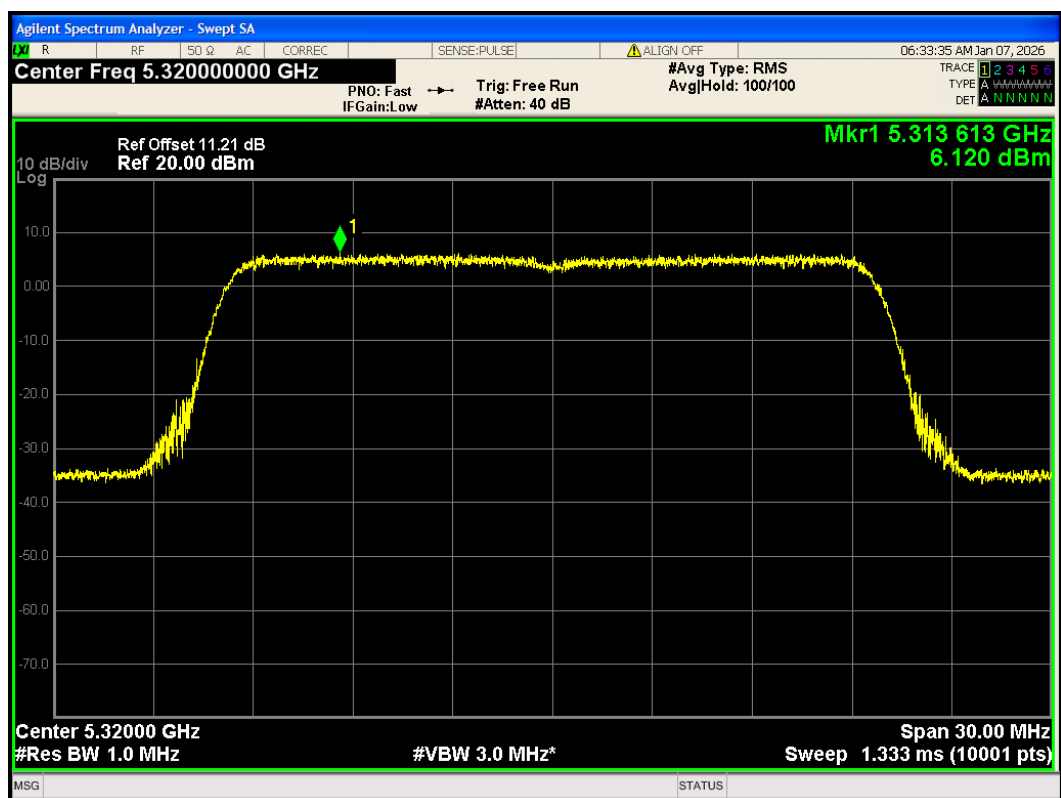
PSD 802.11ax(HE20) 5260MHz



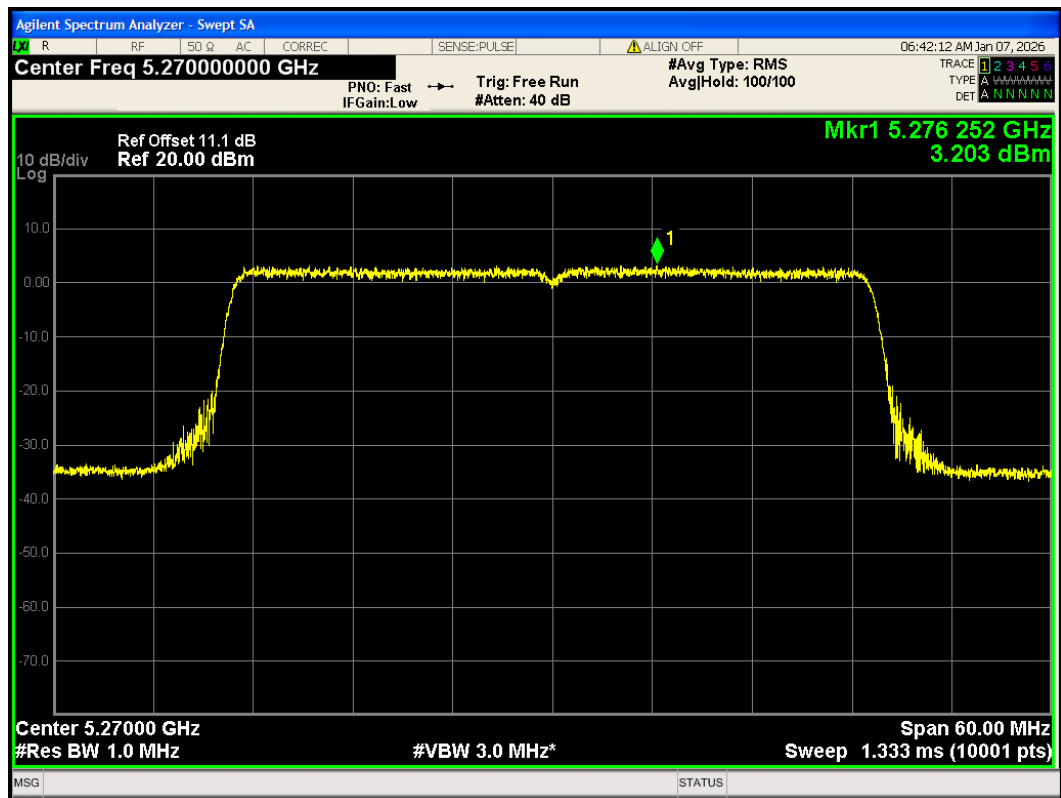
PSD 802.11ax(HE20) 5300MHz



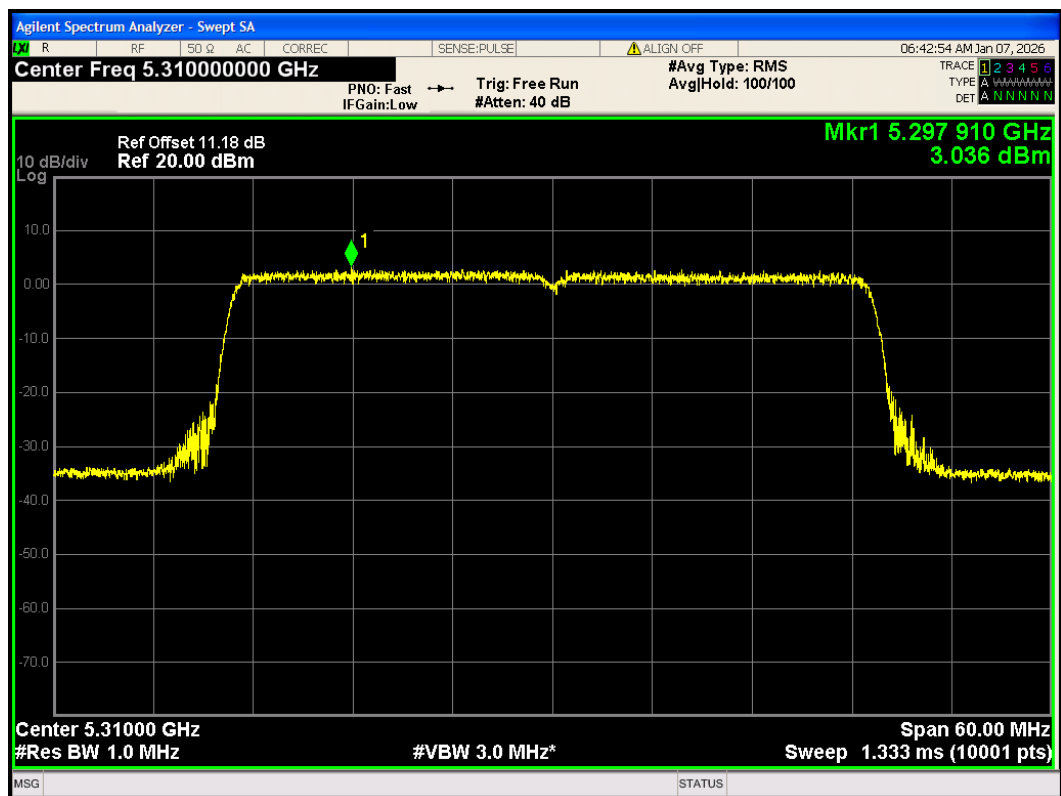
PSD 802.11ax(HE20) 5320MHz



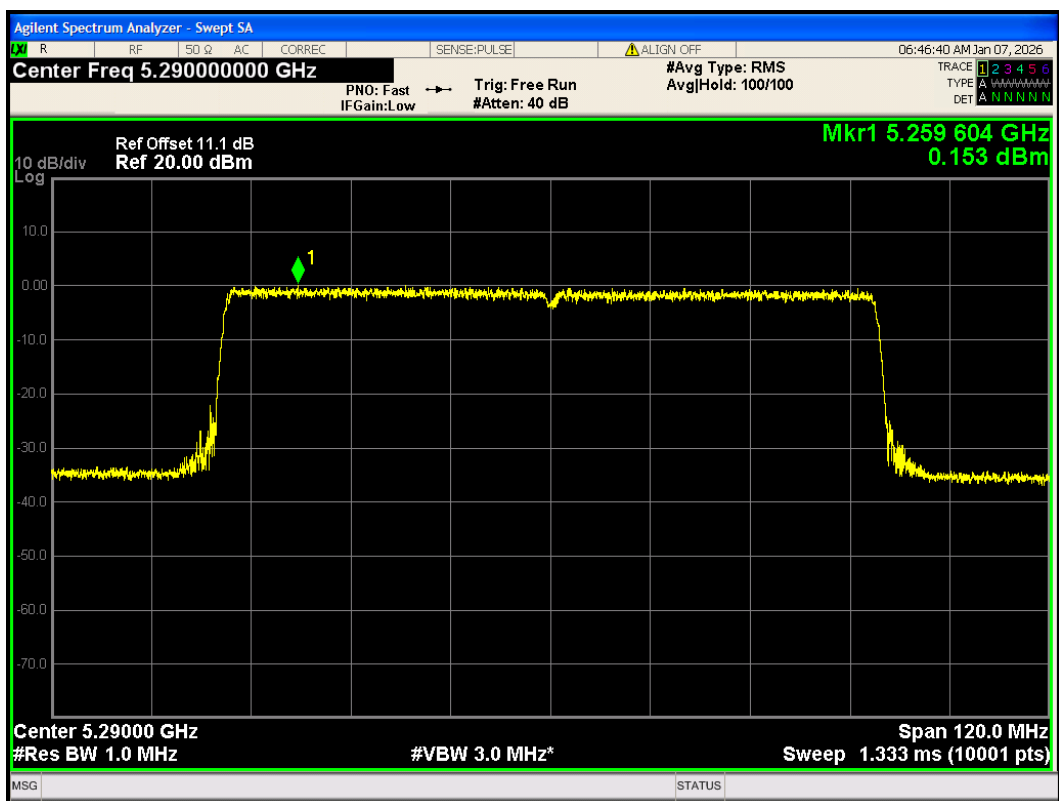
PSD 802.11ax(HE40) 5270MHz



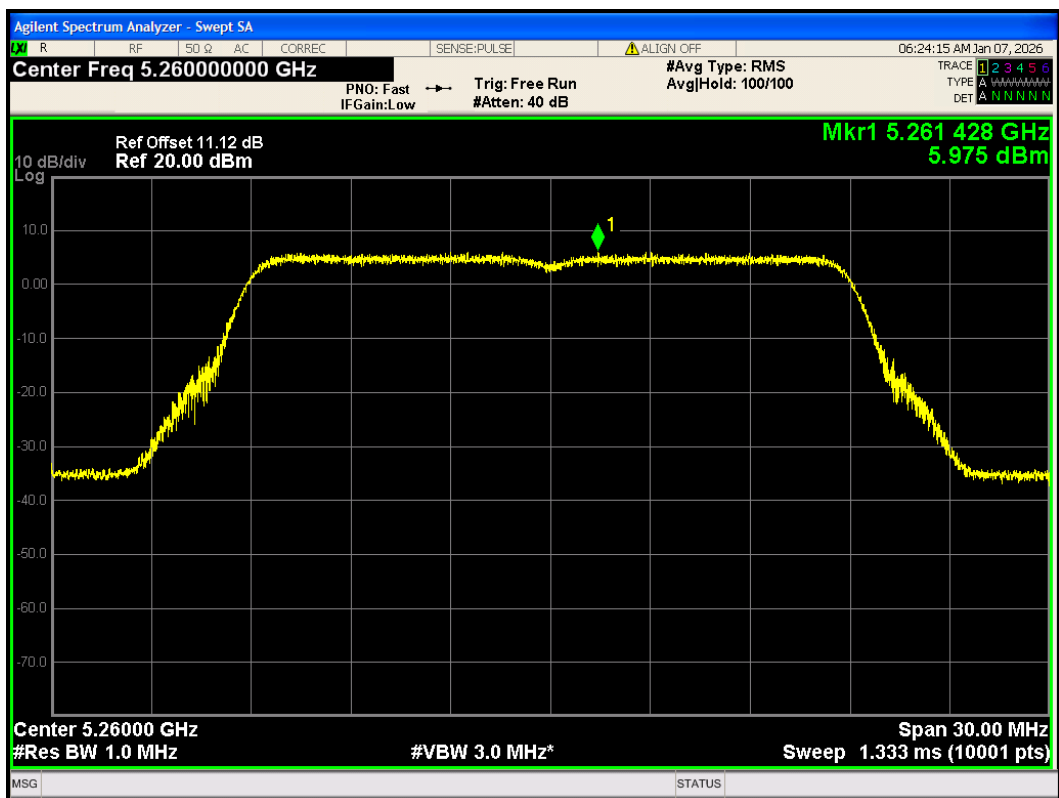
PSD 802.11ax(HE40) 5310MHz



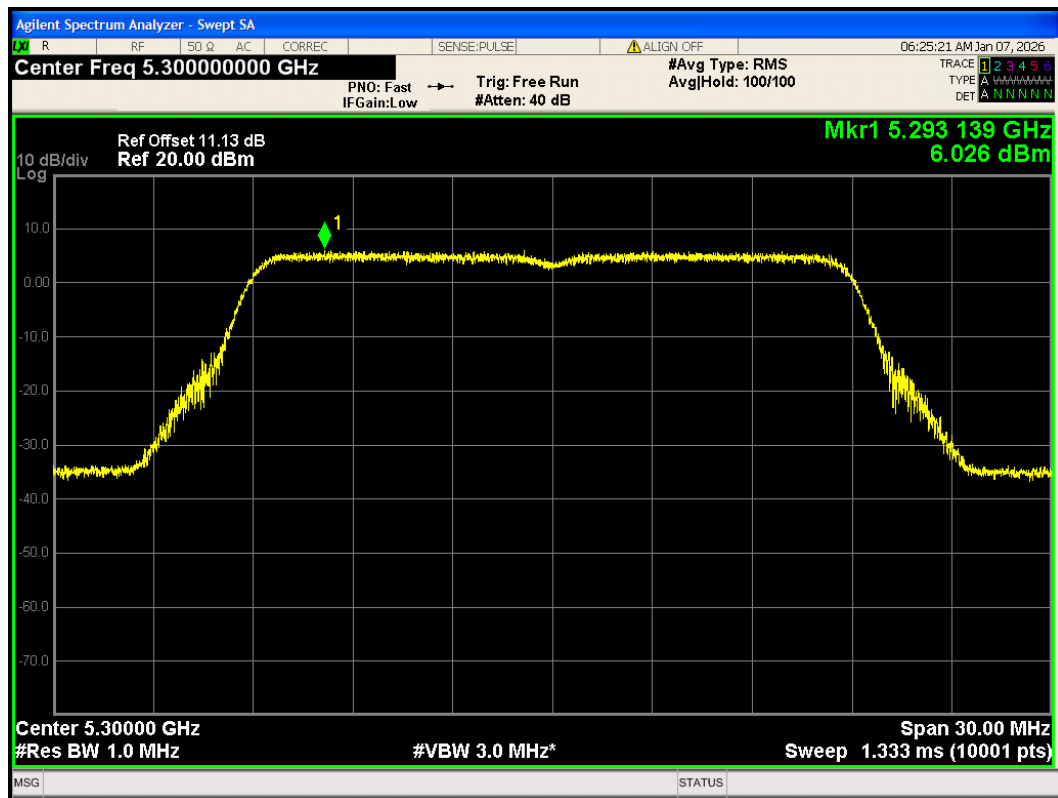
PSD 802.11ax(HE80) 5290MHz



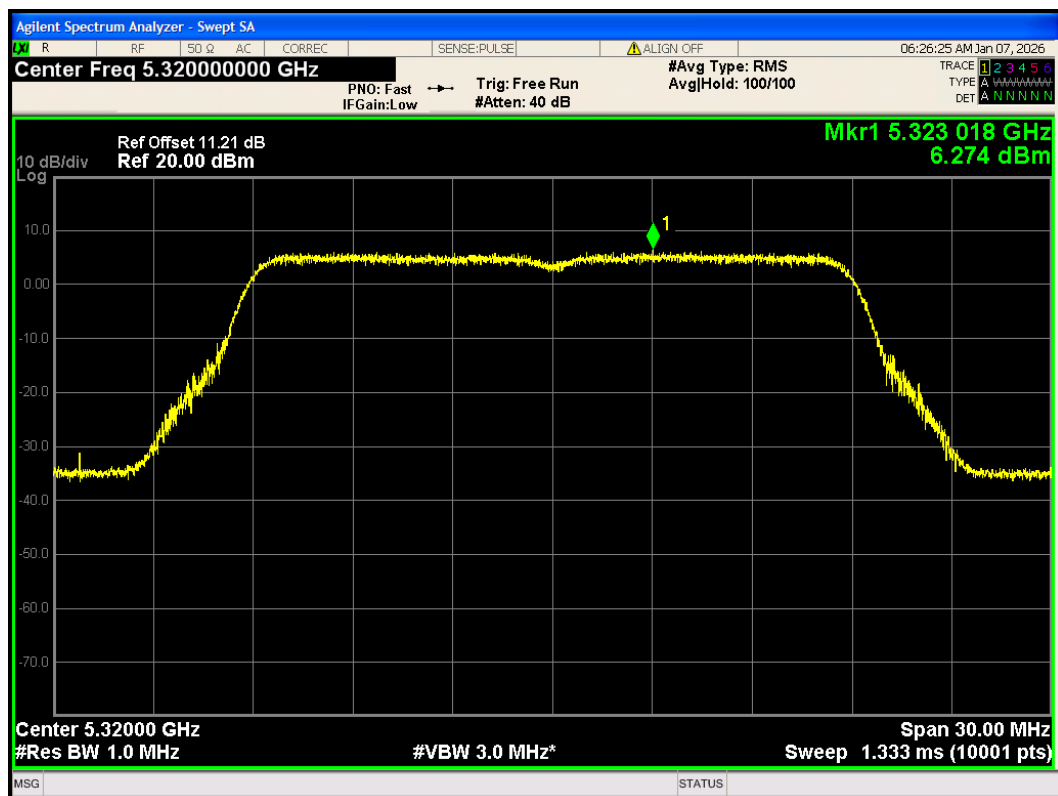
PSD 802.11n(HT20) 5260MHz



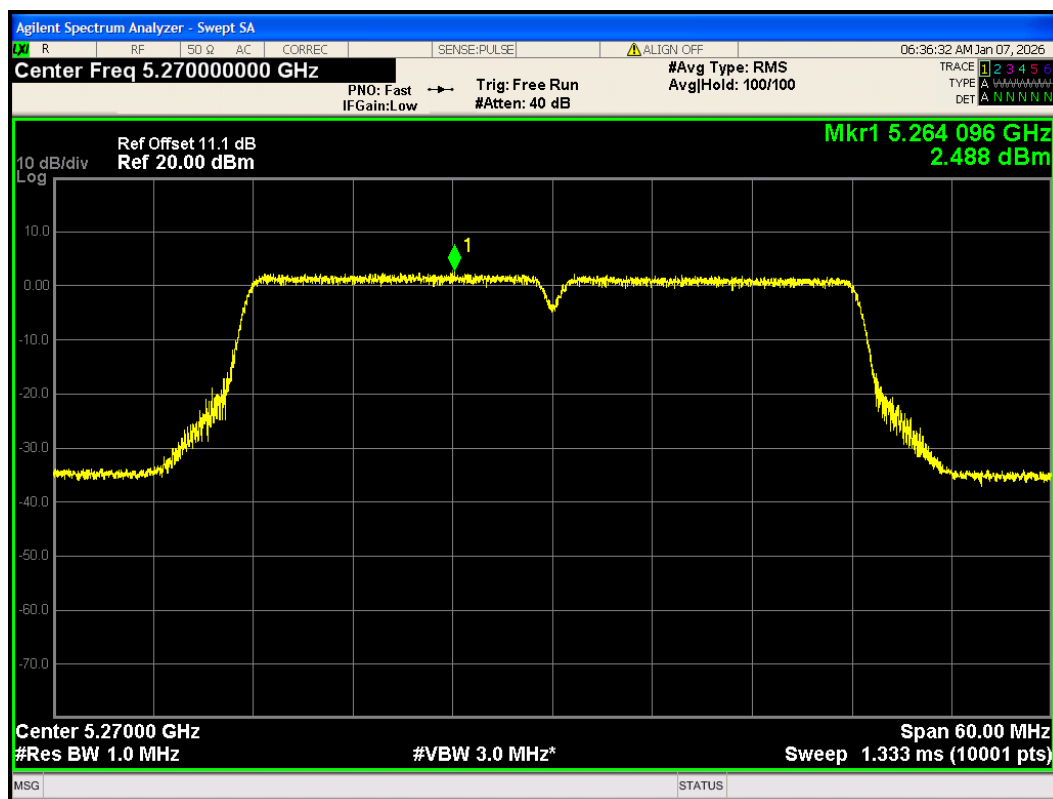
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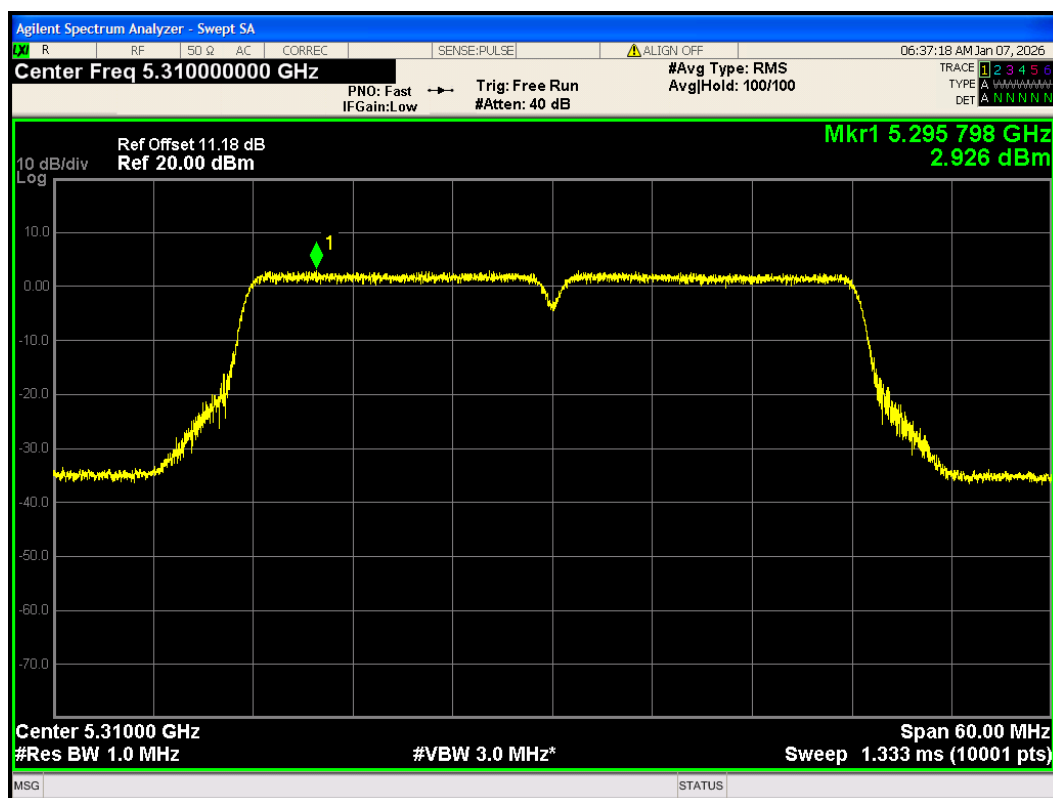
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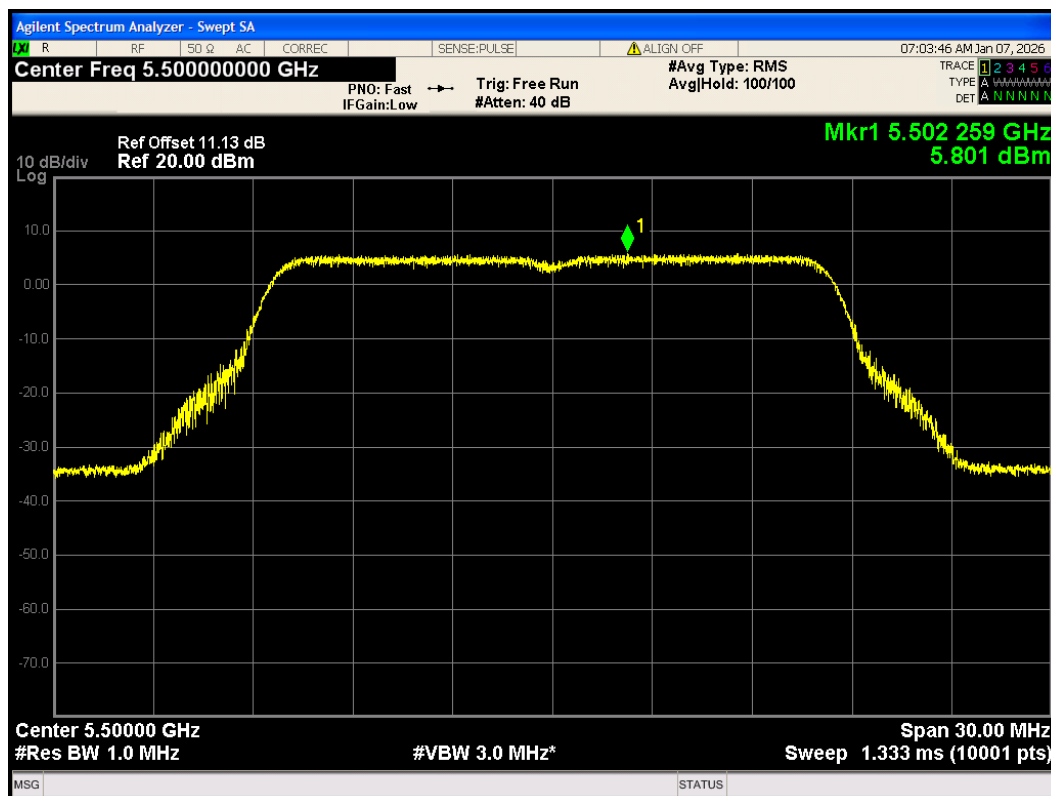
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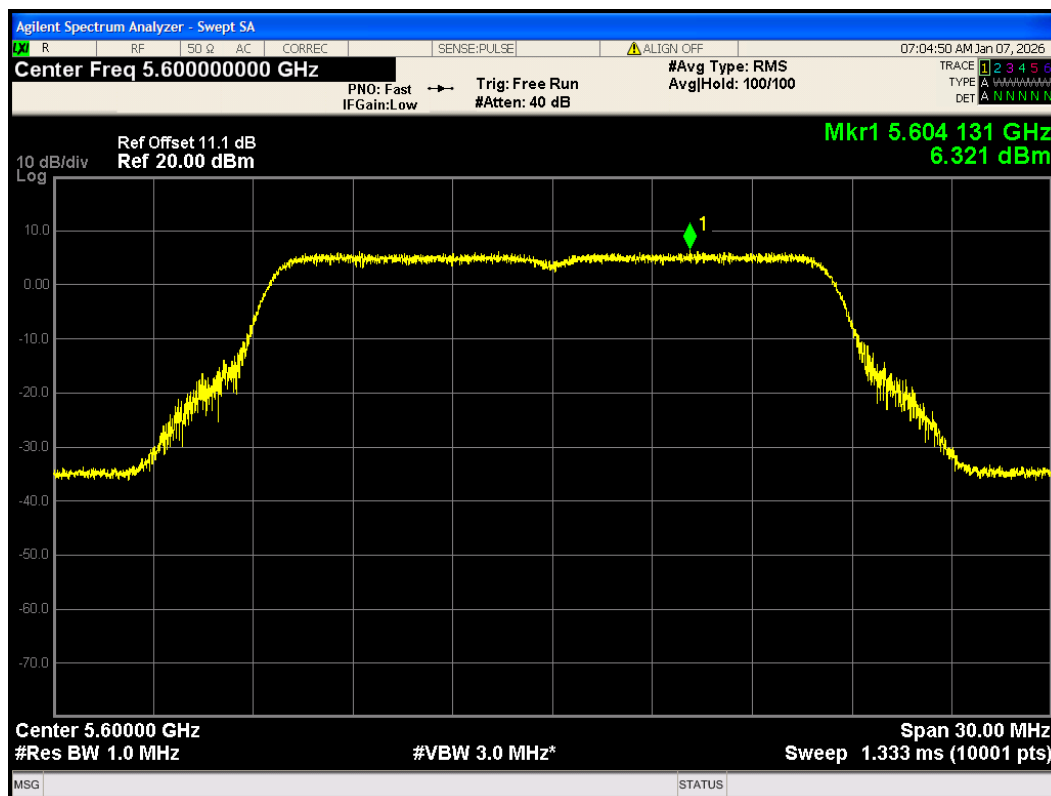
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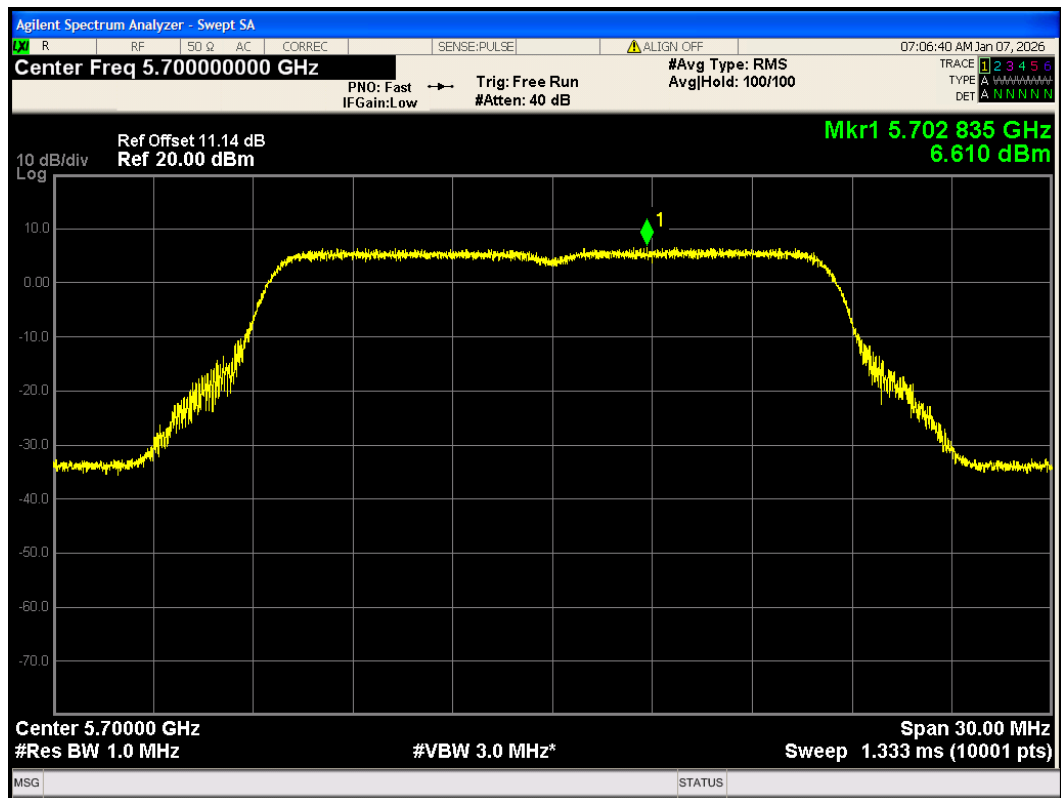
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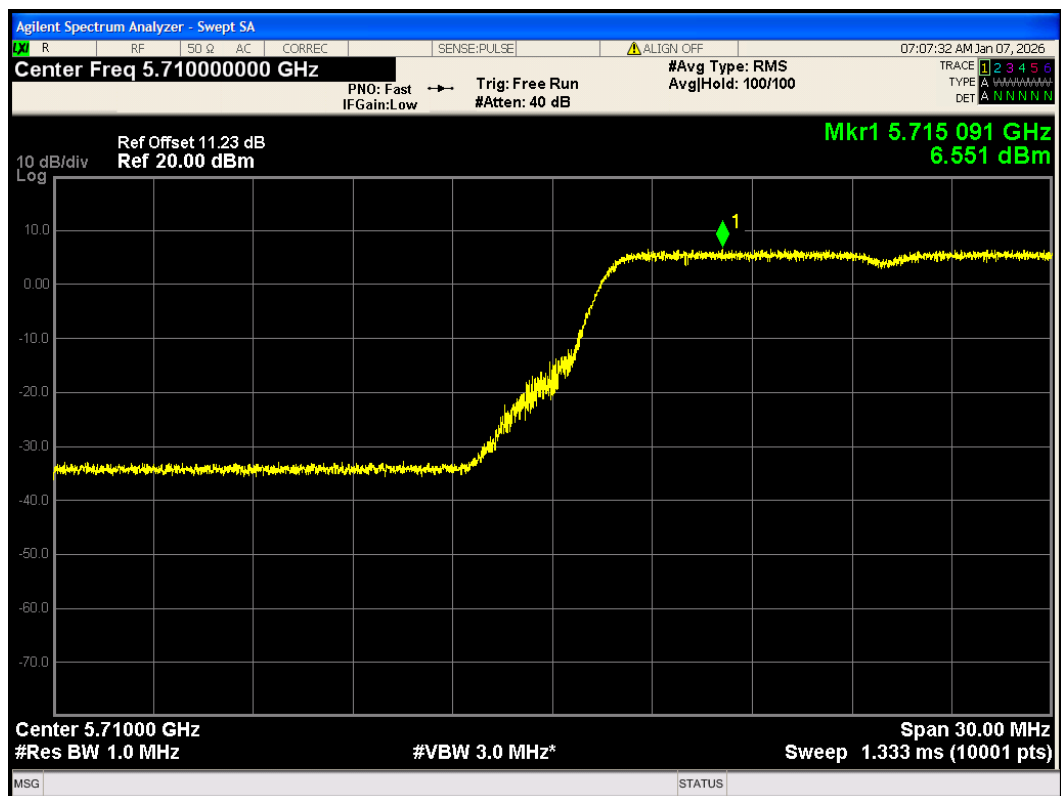
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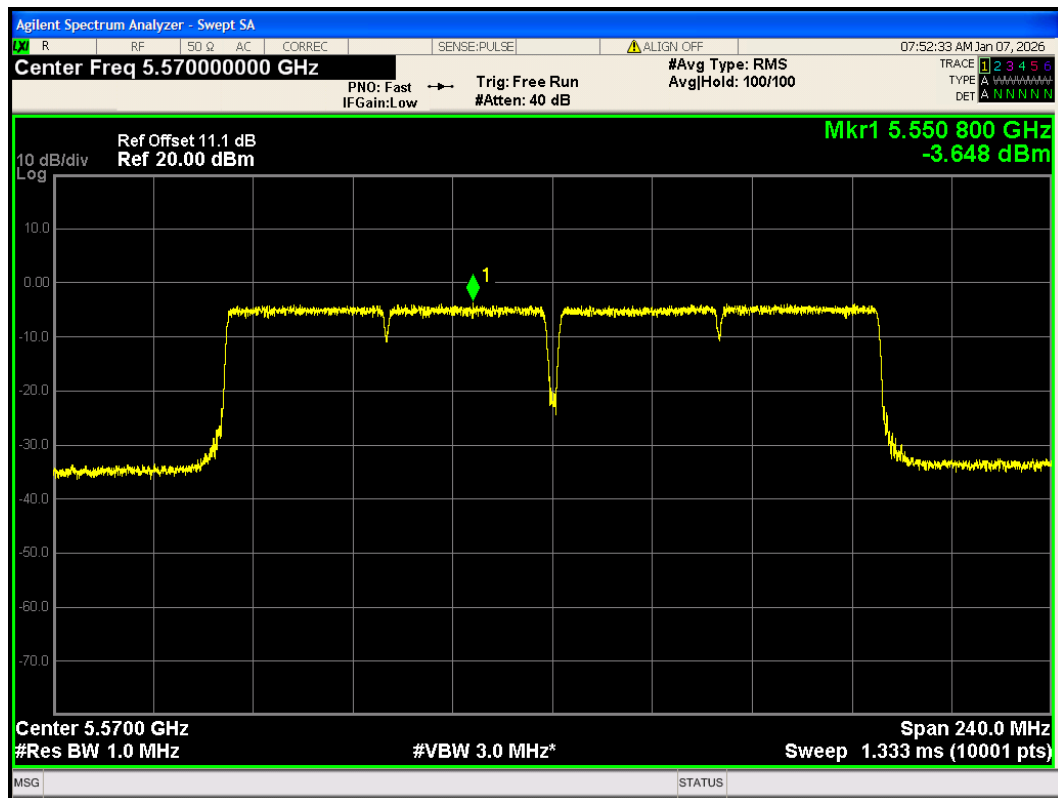
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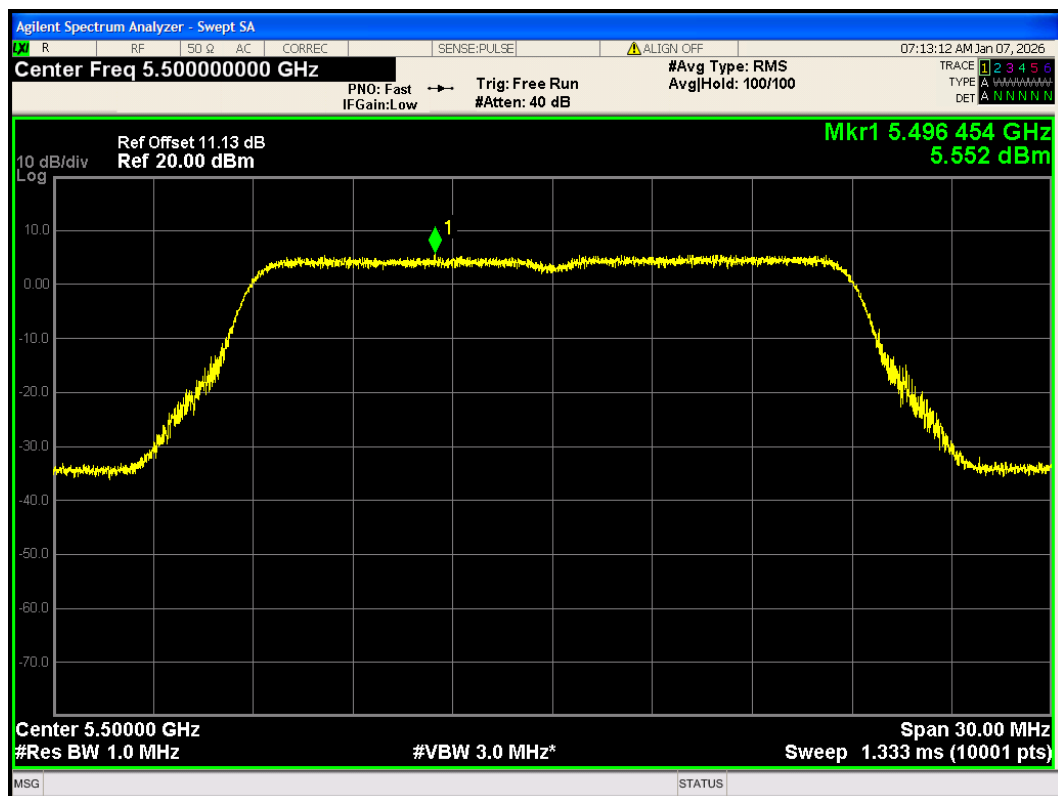
PSD 802.11a 5720MHz



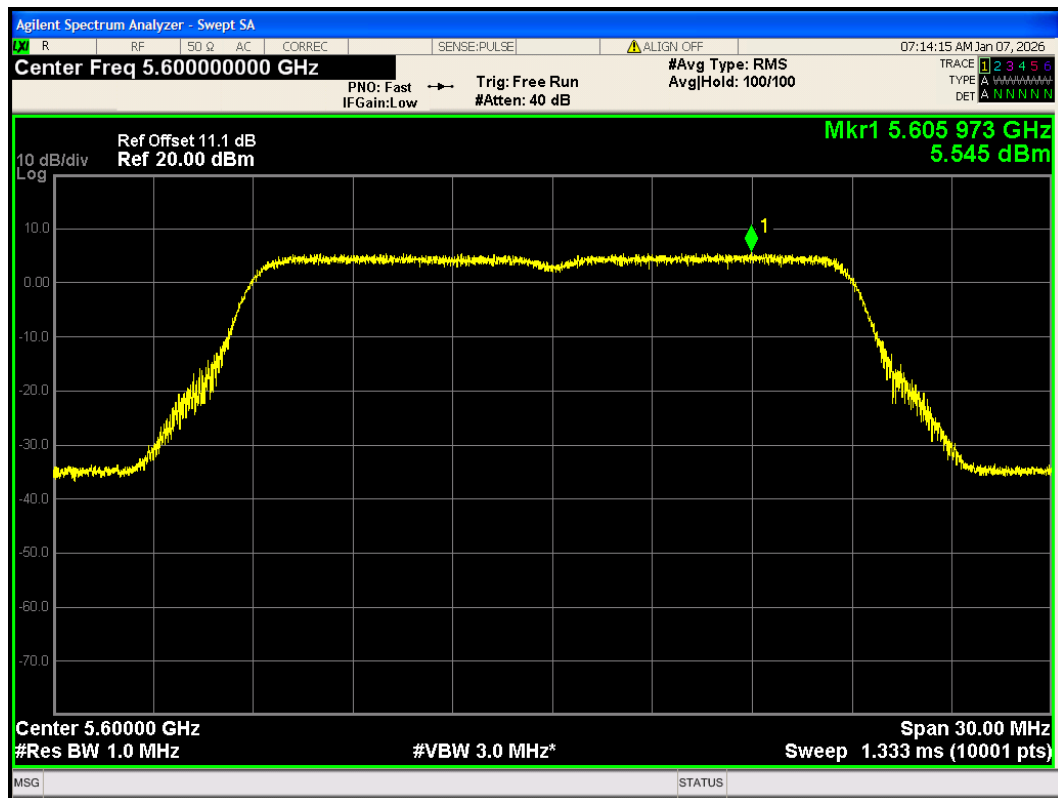
PSD 802.11ac(VHT160) 5570MHz



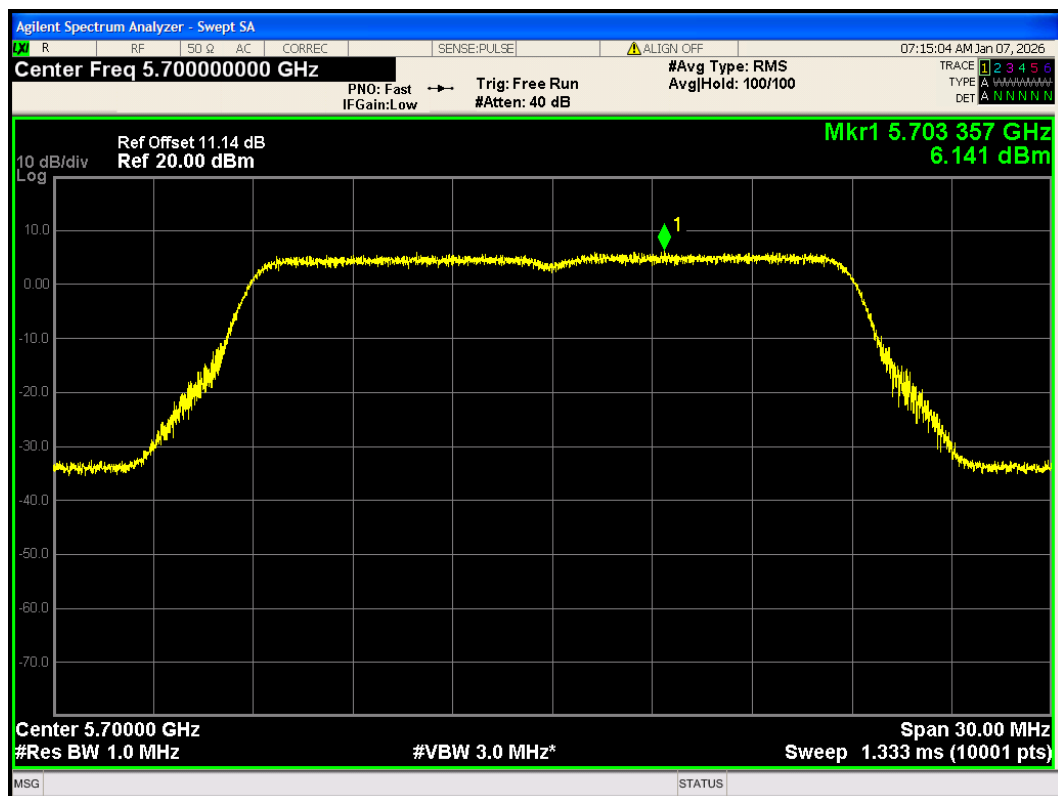
PSD 802.11ac(VHT20) 5500MHz



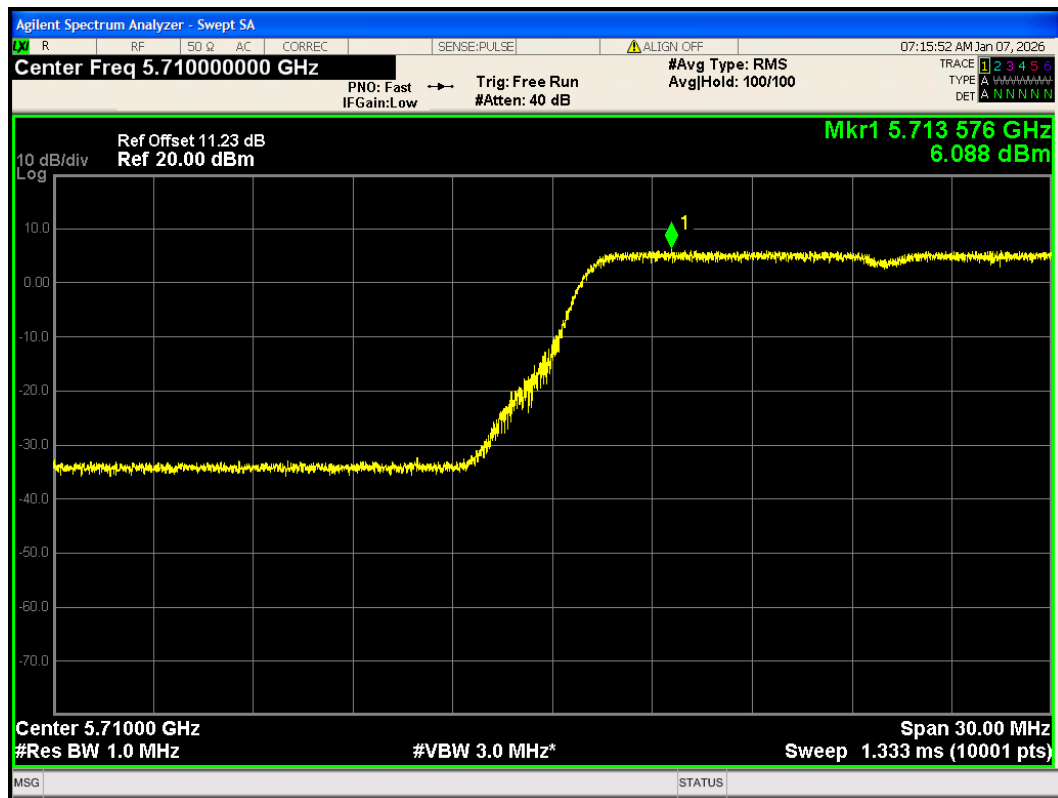
PSD 802.11ac(VHT20) 5600MHz



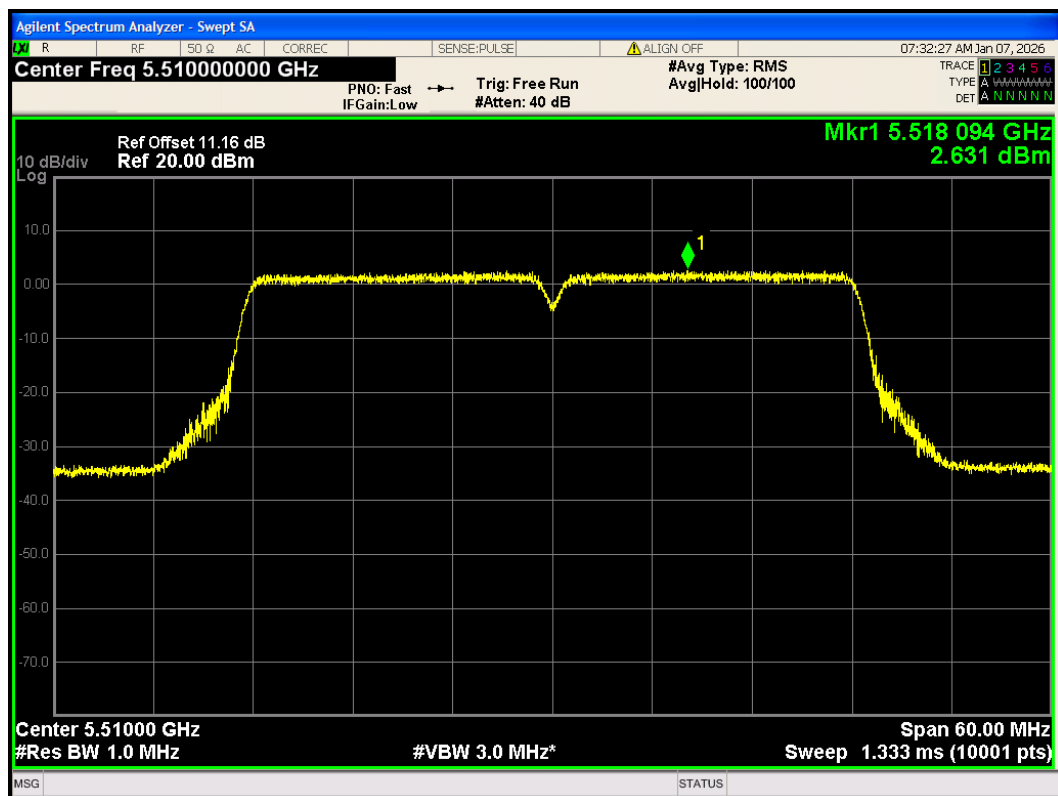
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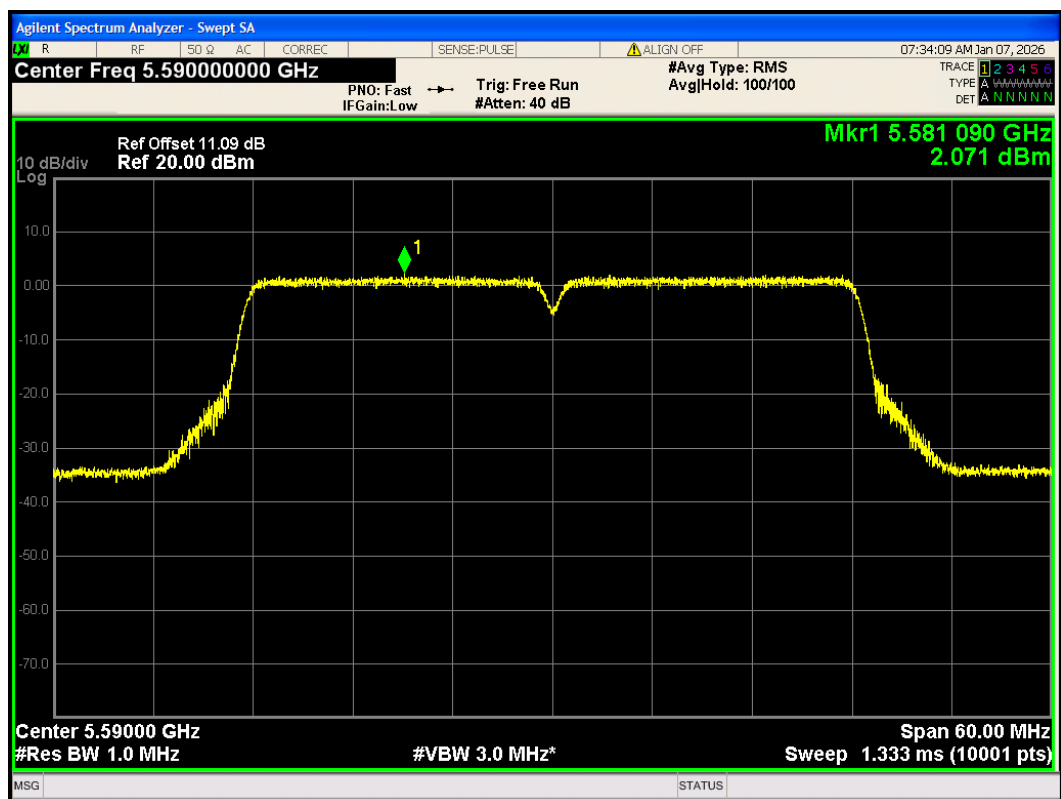
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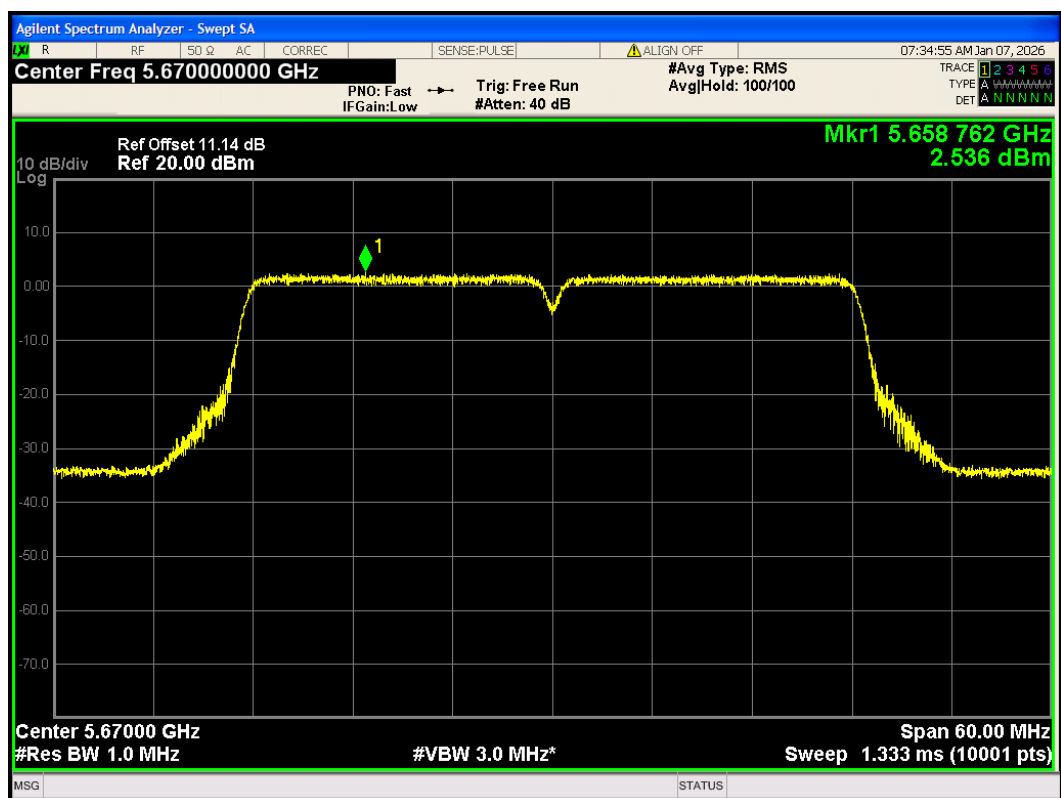
PSD 802.11ac(VHT40) 5510MHz



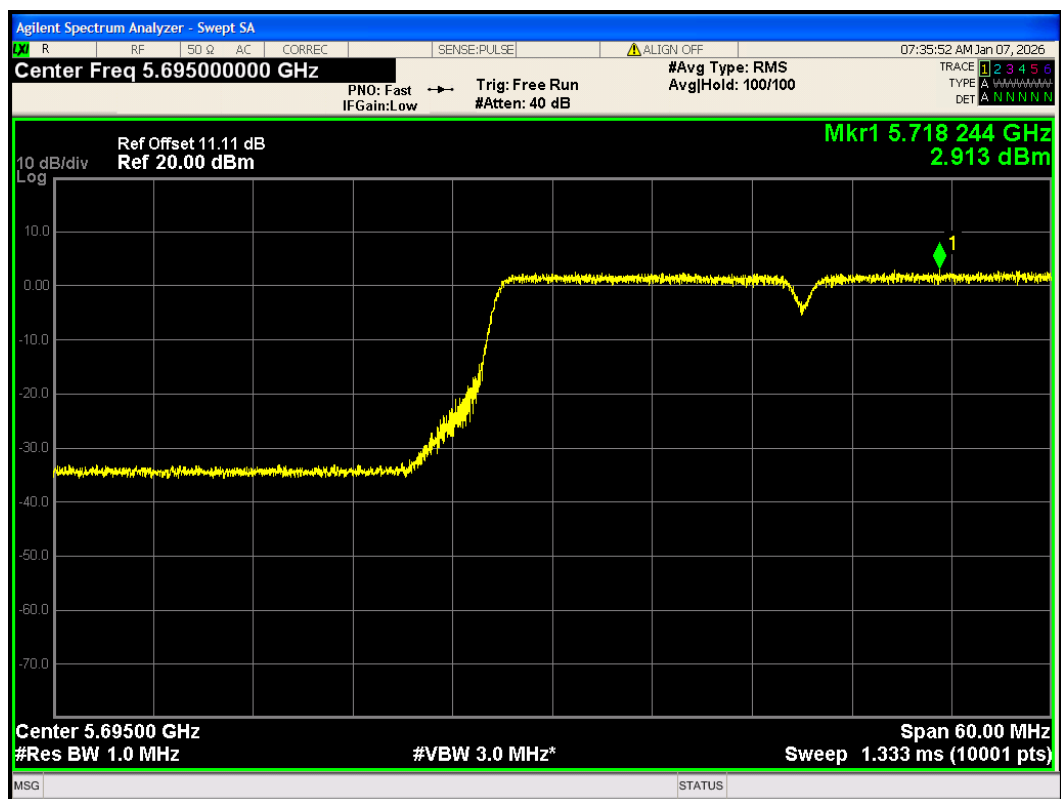
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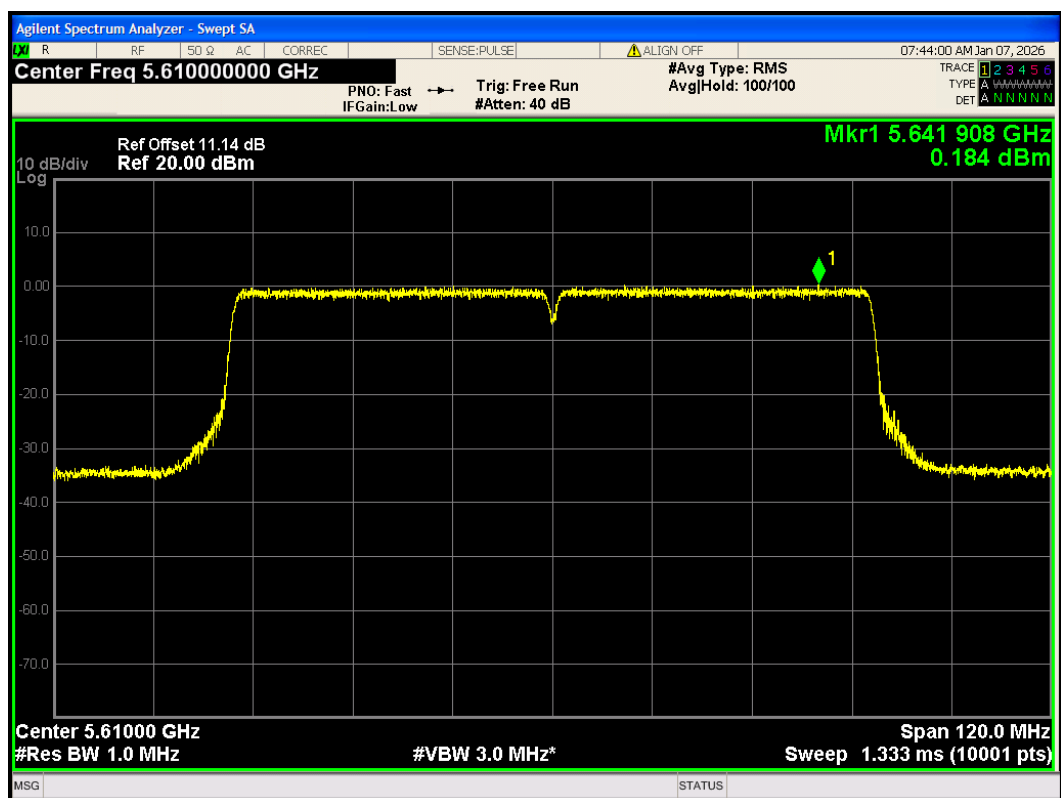
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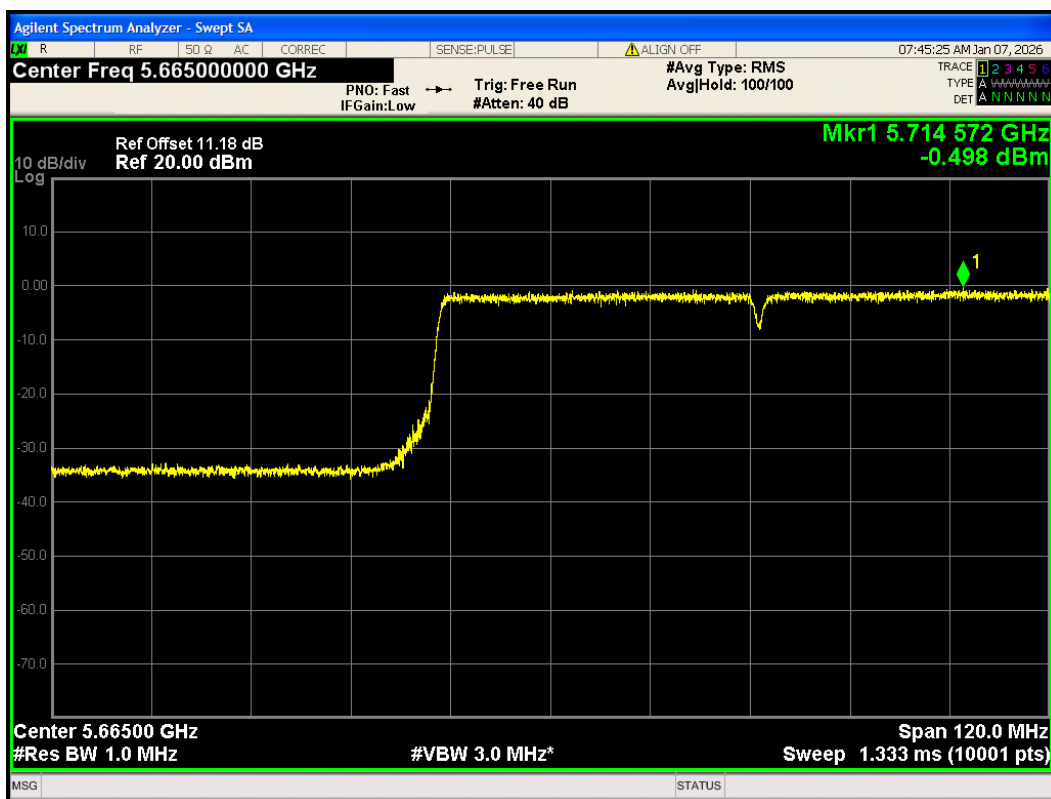
PSD 802.11ac(VHT40) 5710MHz



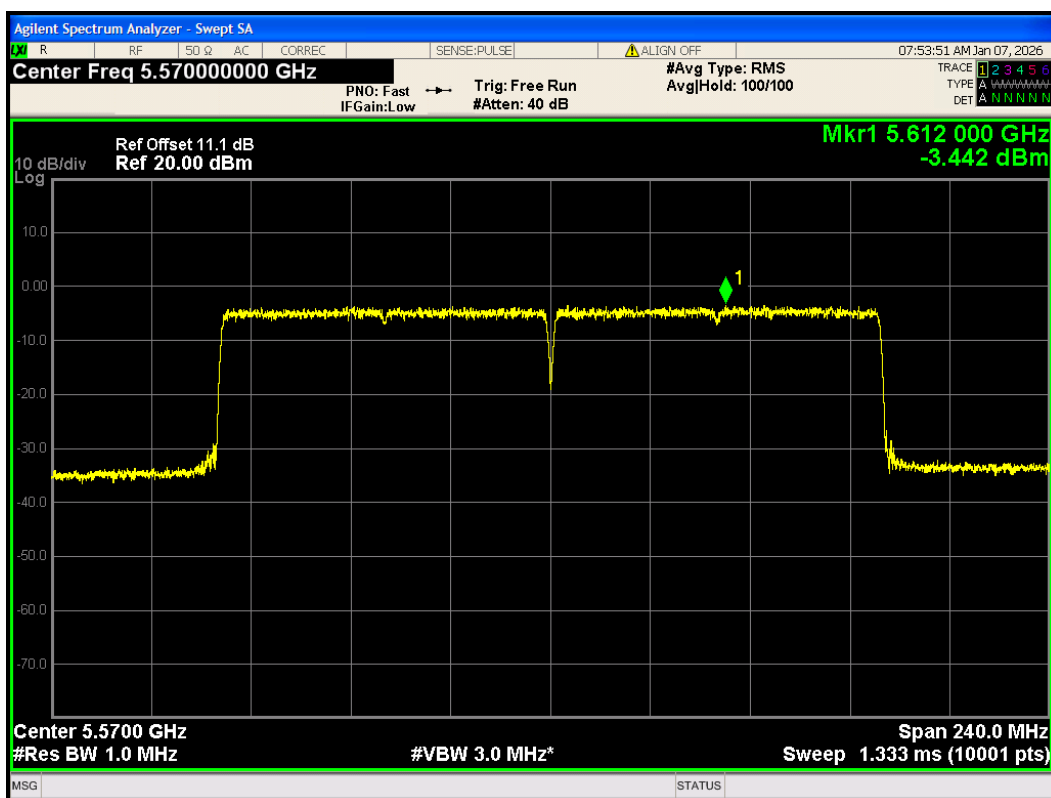
PSD 802.11ac(VHT80) 5610MHz



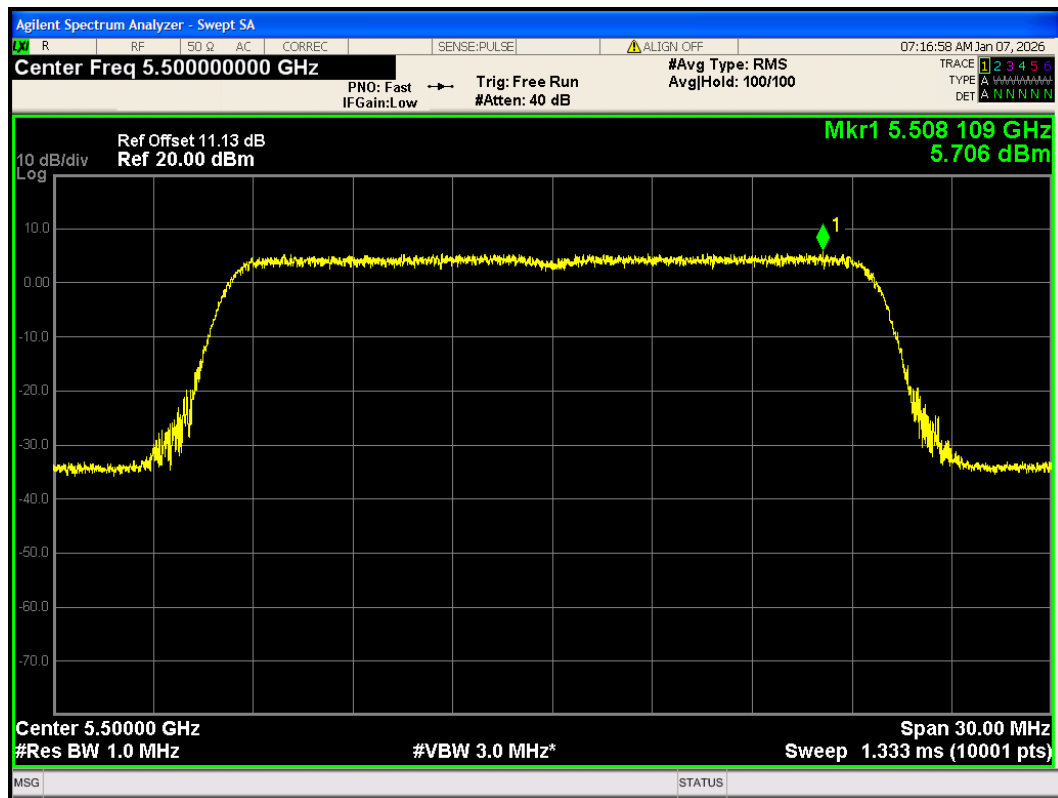
PSD 802.11ac(VHT80) 5690MHz



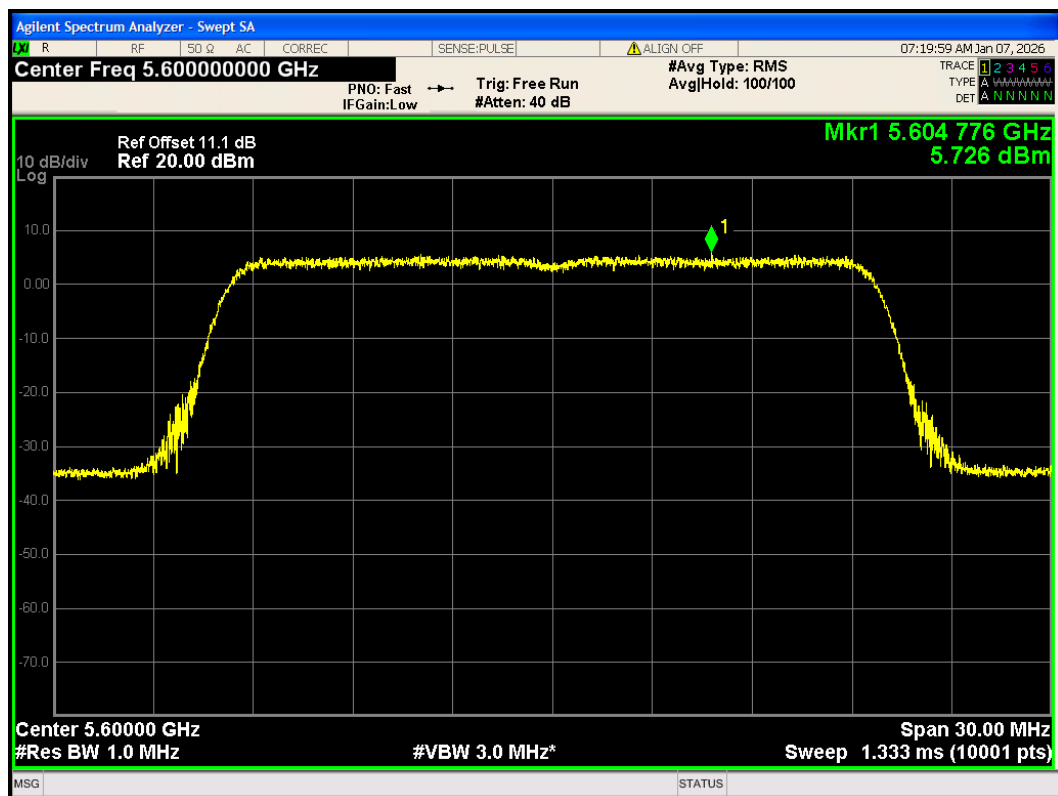
PSD 802.11ax(HE160) 5570MHz



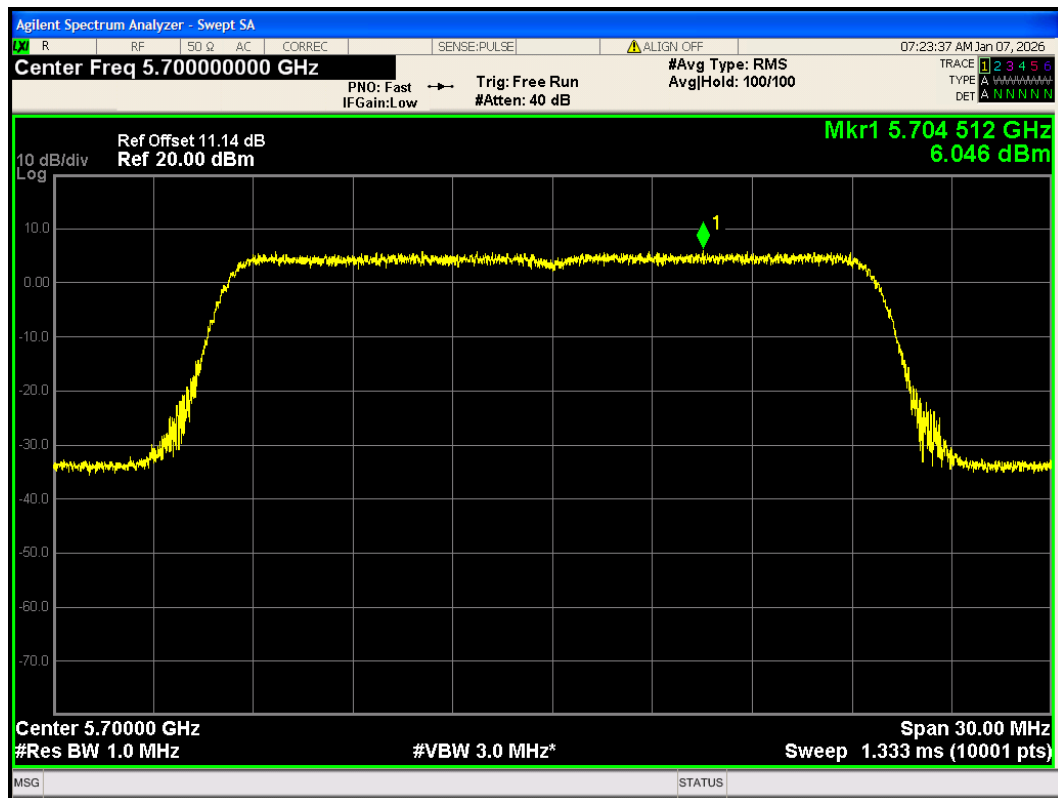
PSD 802.11ax(HE20) 5500MHz



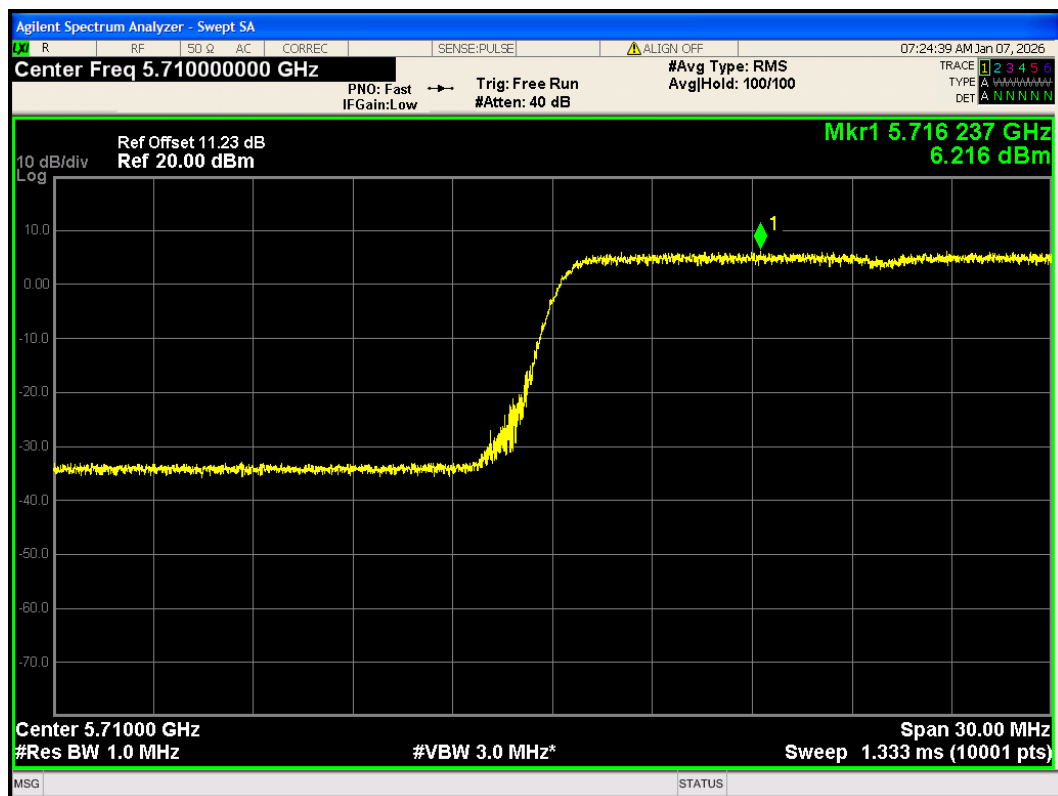
PSD 802.11ax(HE20) 5600MHz



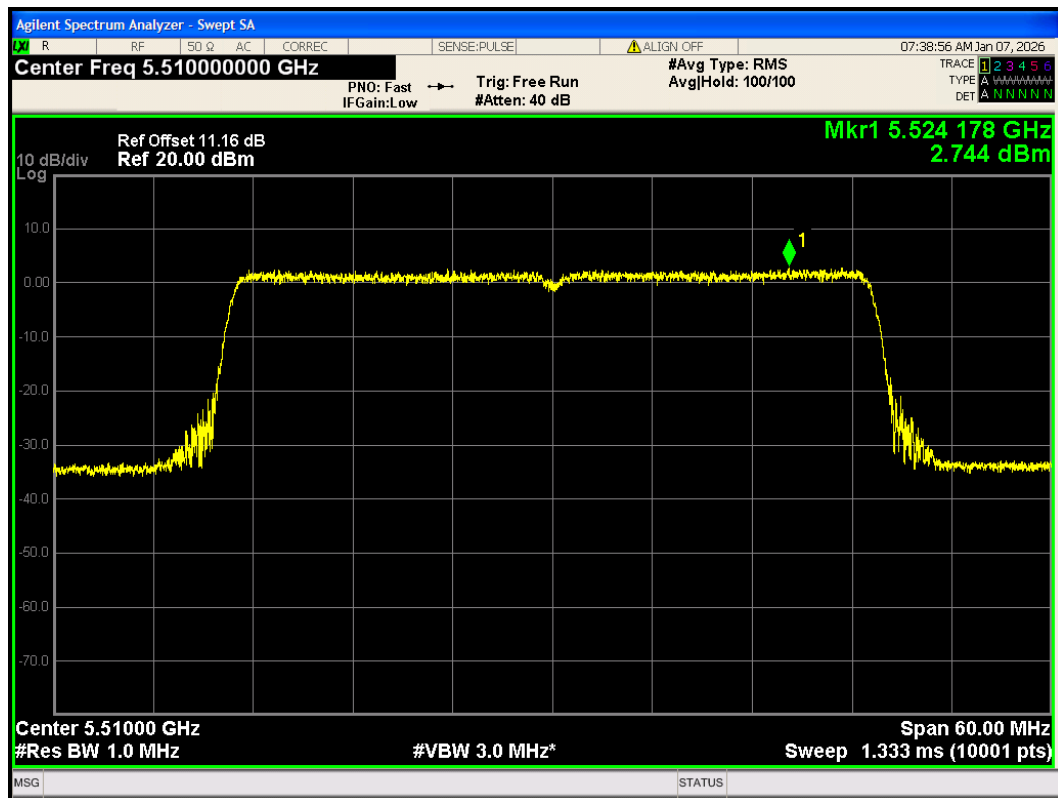
PSD 802.11ax(HE20) 5700MHz



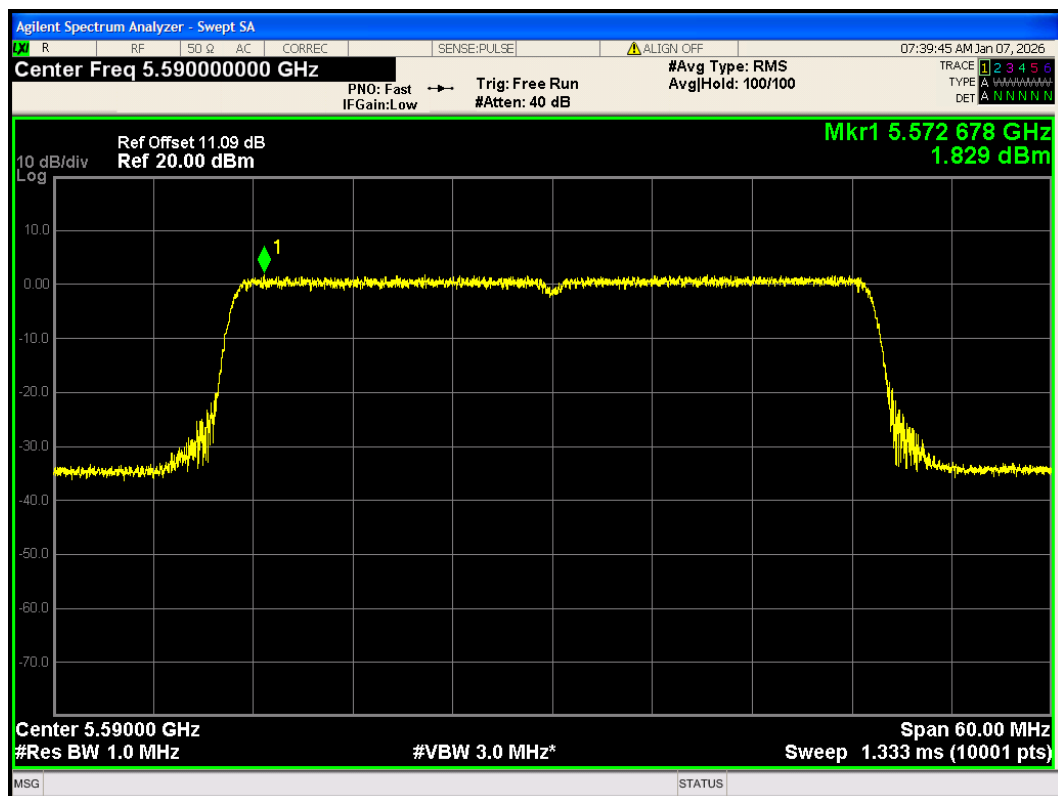
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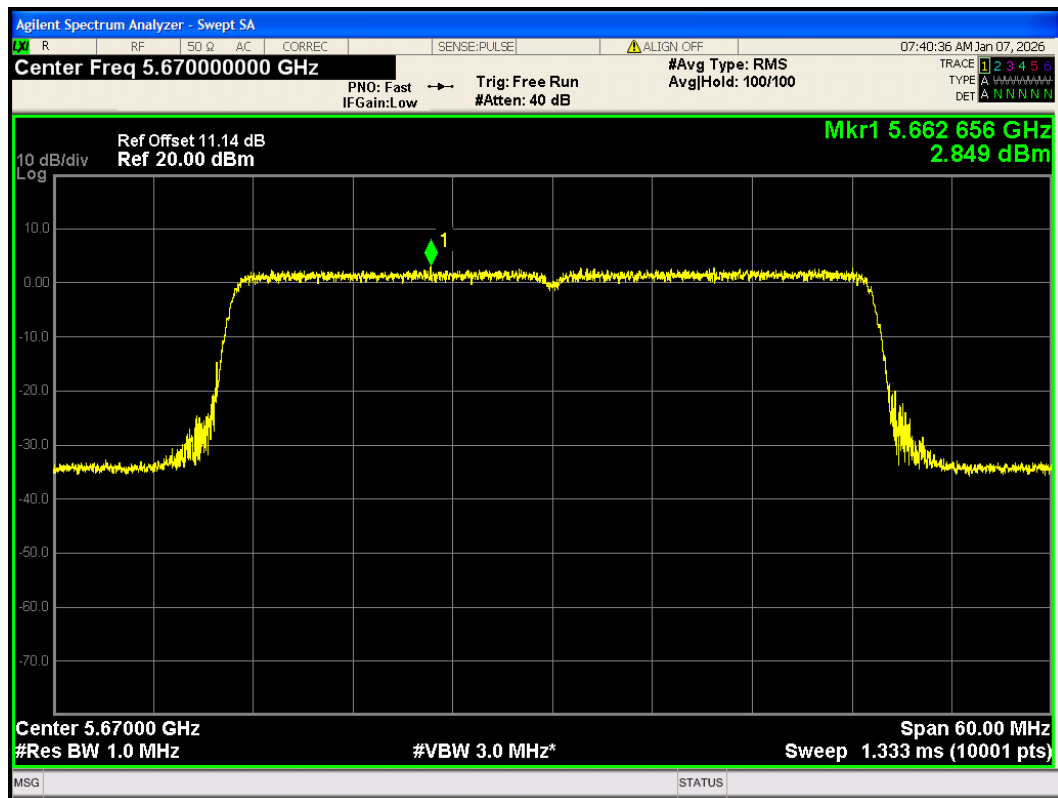
PSD 802.11ax(HE40) 5510MHz



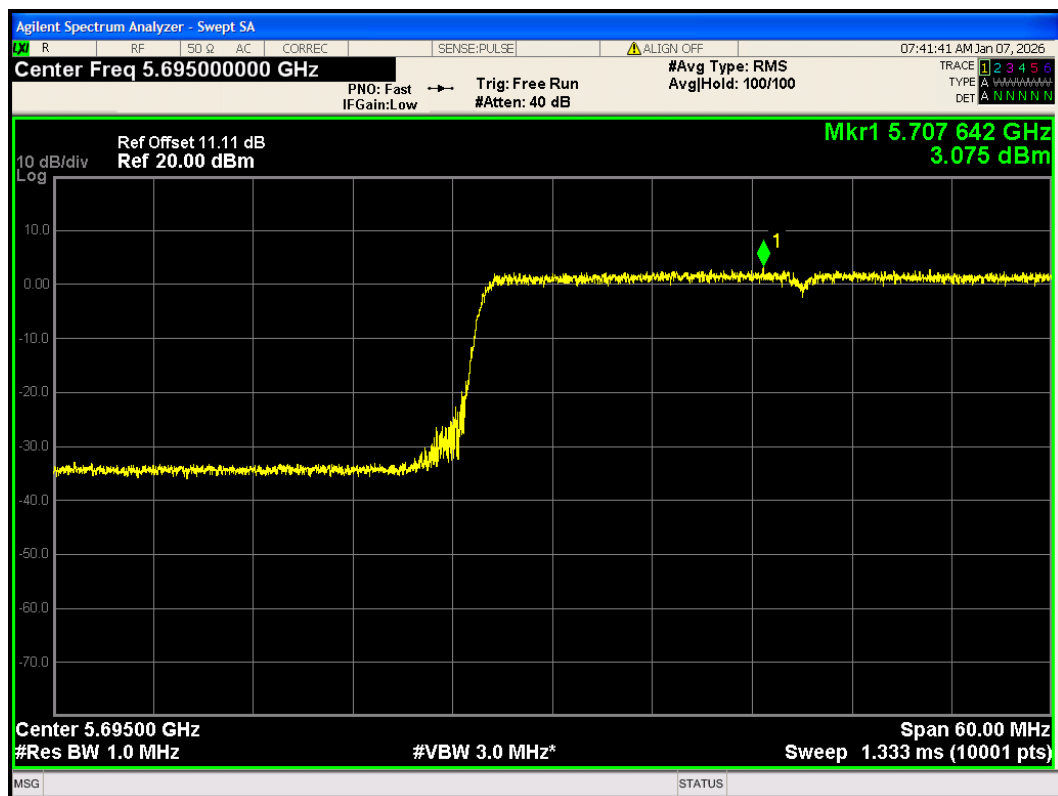
PSD 802.11ax(HE40) 5590MHz



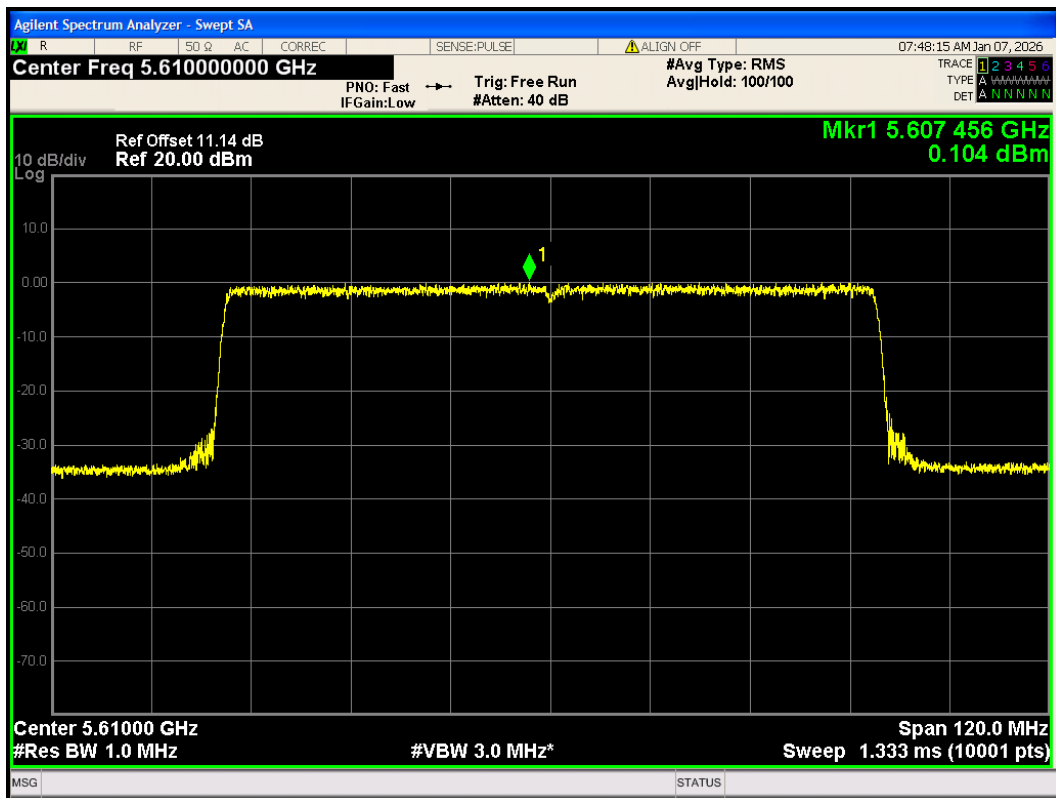
PSD 802.11ax(HE40) 5670MHz



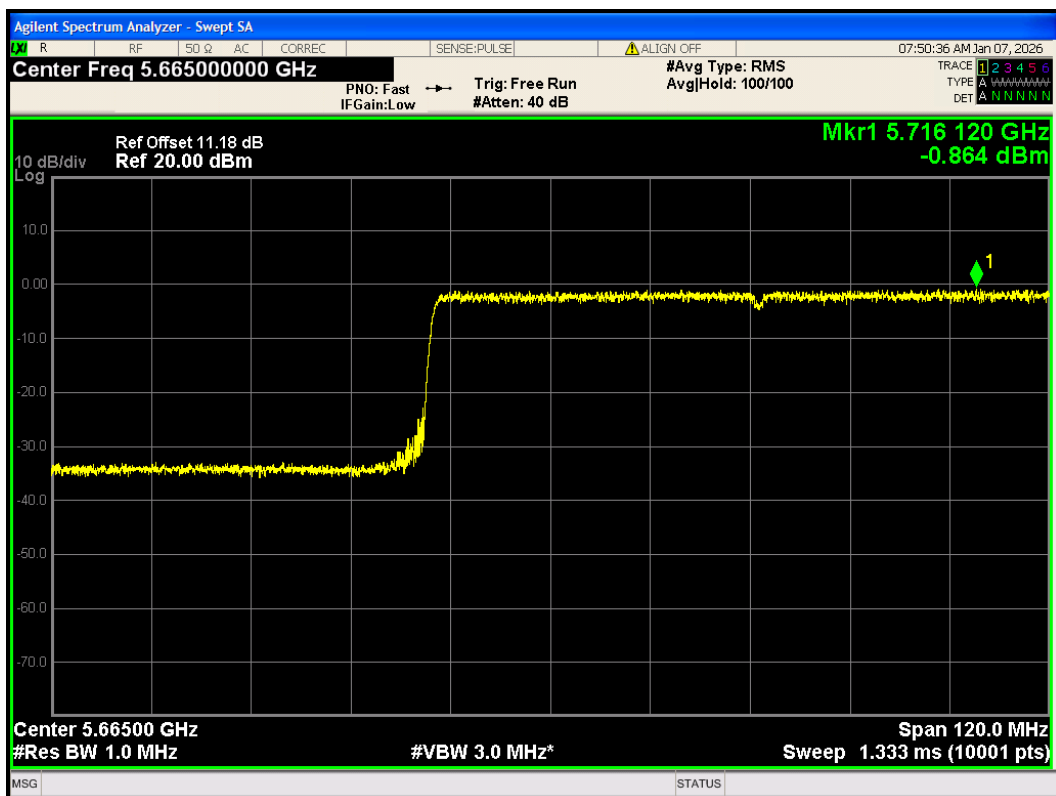
PSD 802.11ax(HE40) 5710MHz



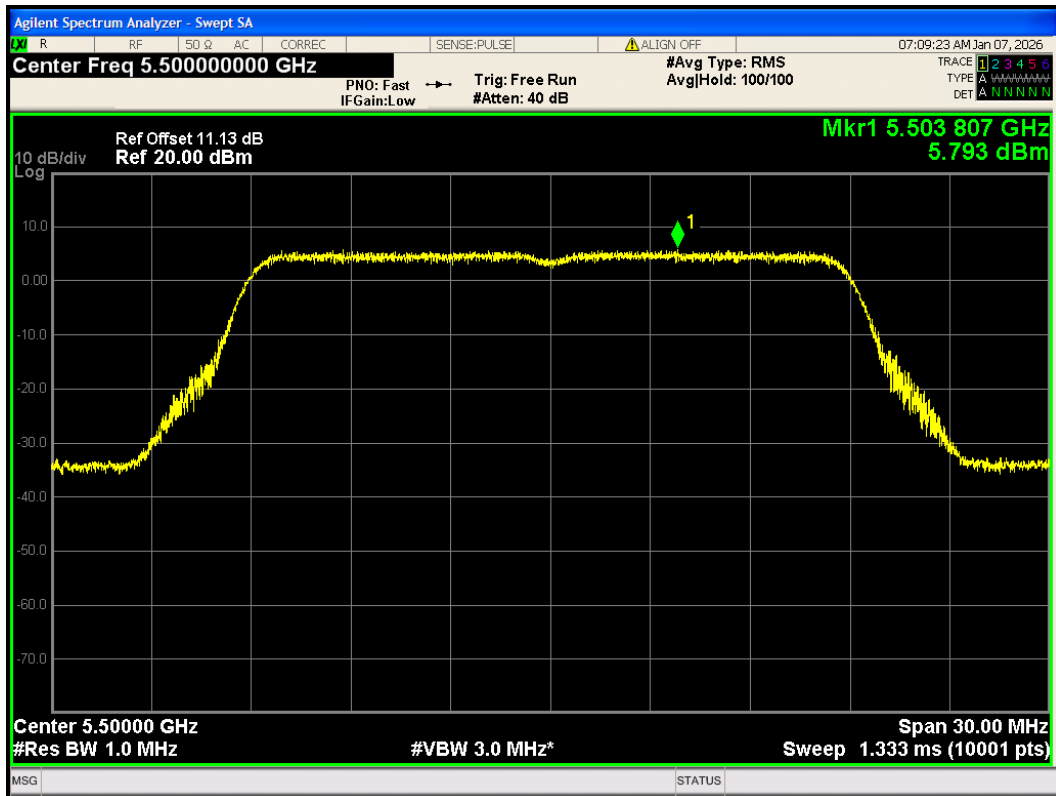
PSD 802.11ax(HE80) 5610MHz



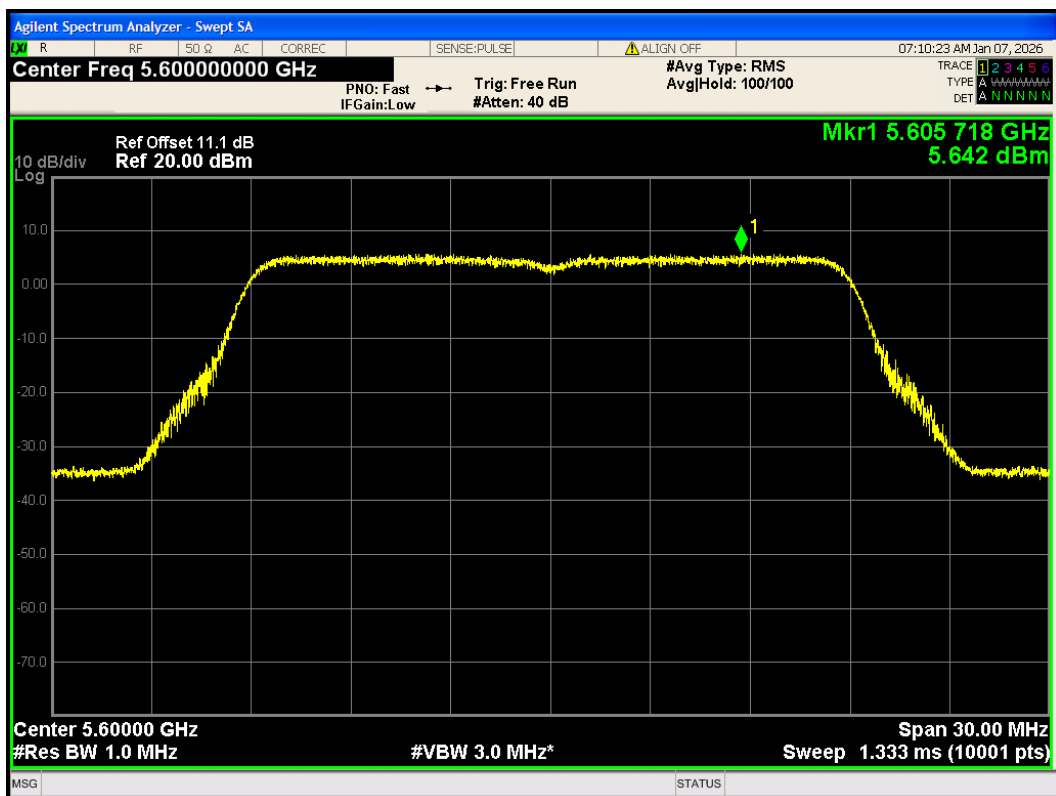
PSD 802.11ax(HE80) 5690MHz



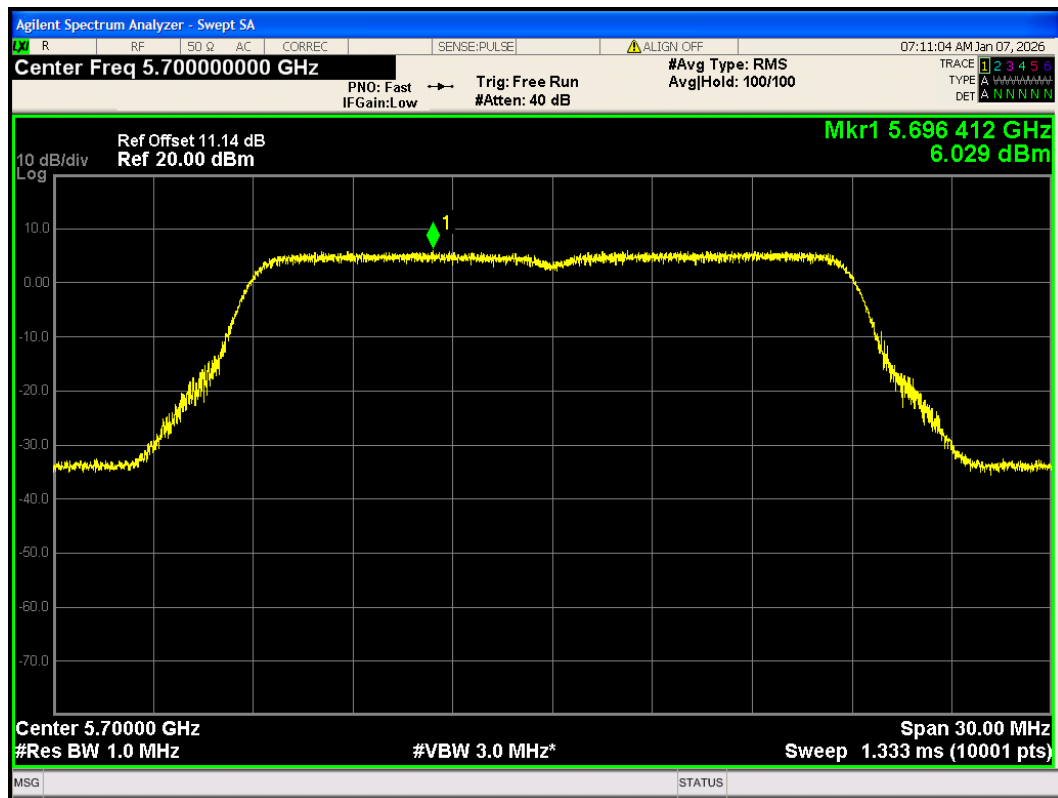
PSD 802.11n(HT20) 5500MHz



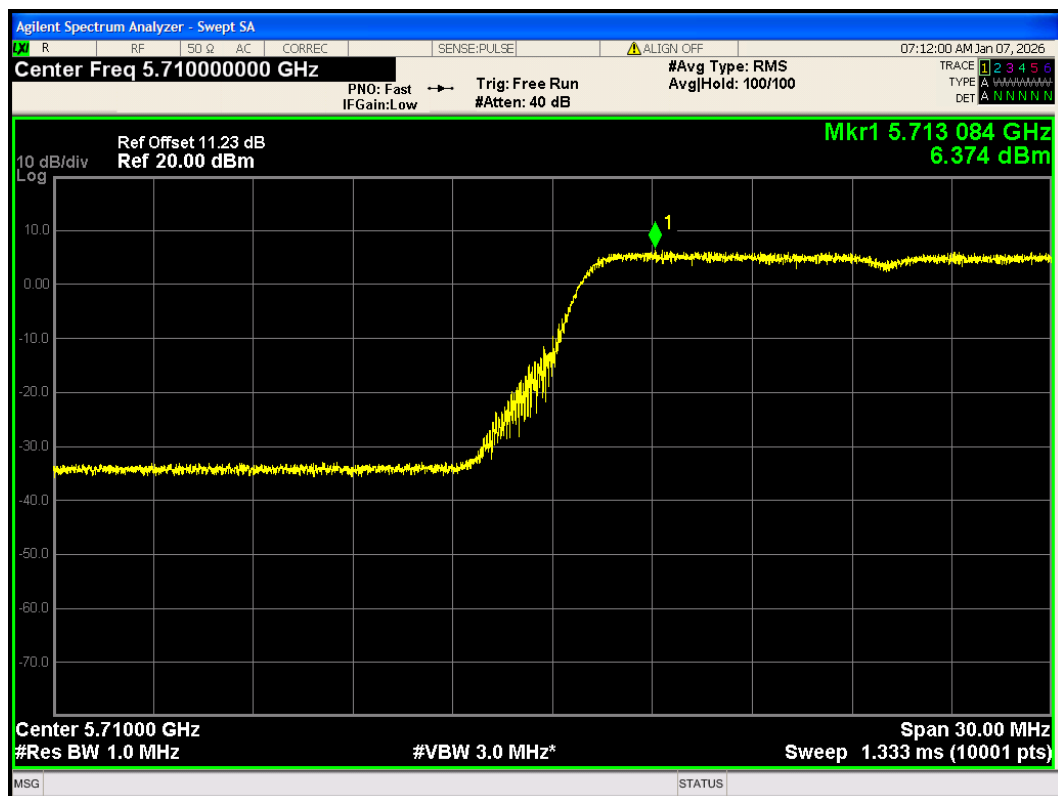
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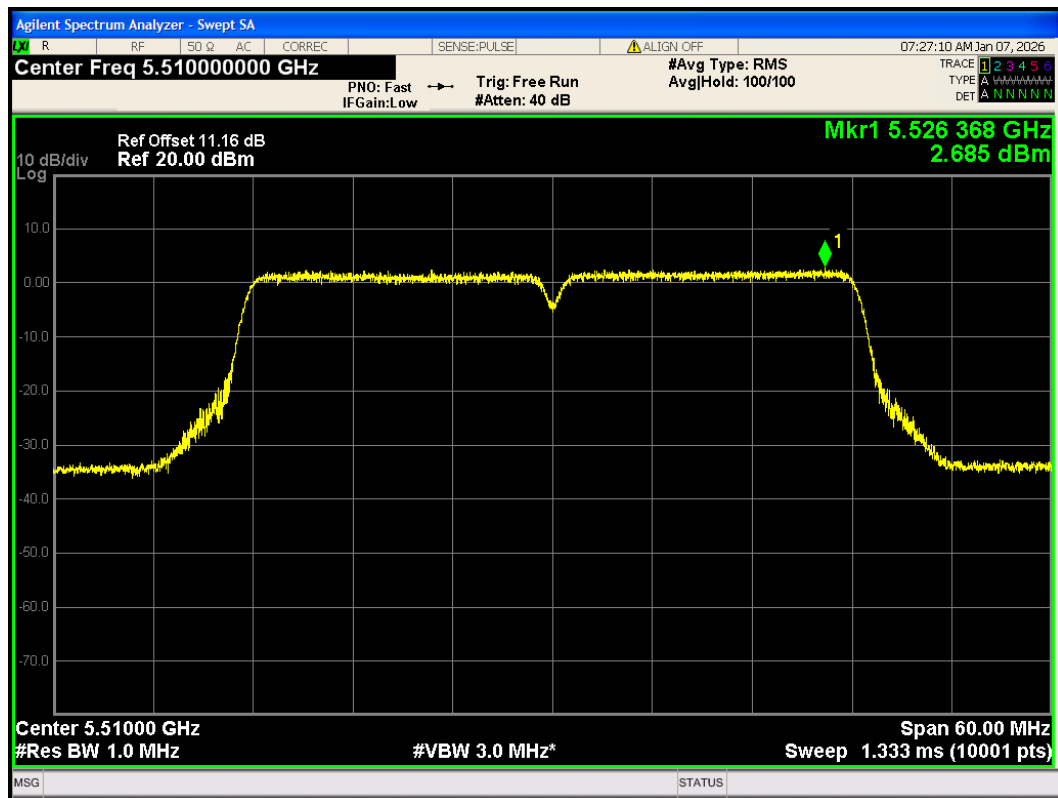
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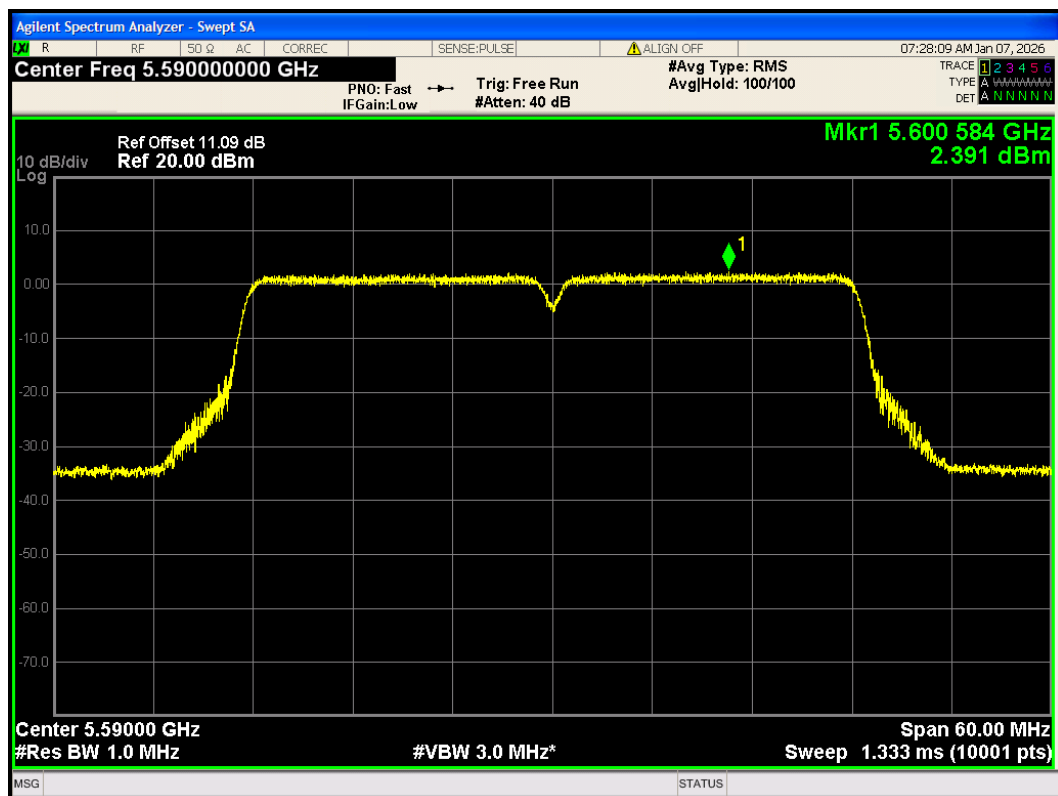
PSD 802.11n(HT20) 5720MHz



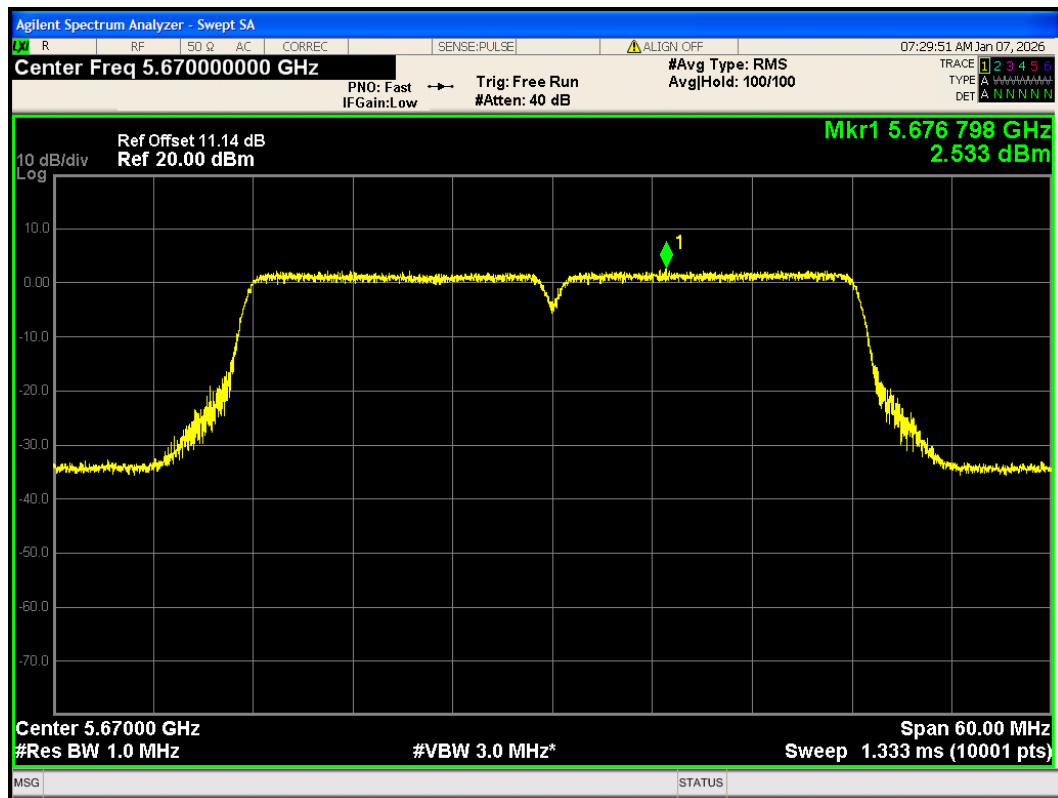
PSD 802.11n(HT40) 5510MHz



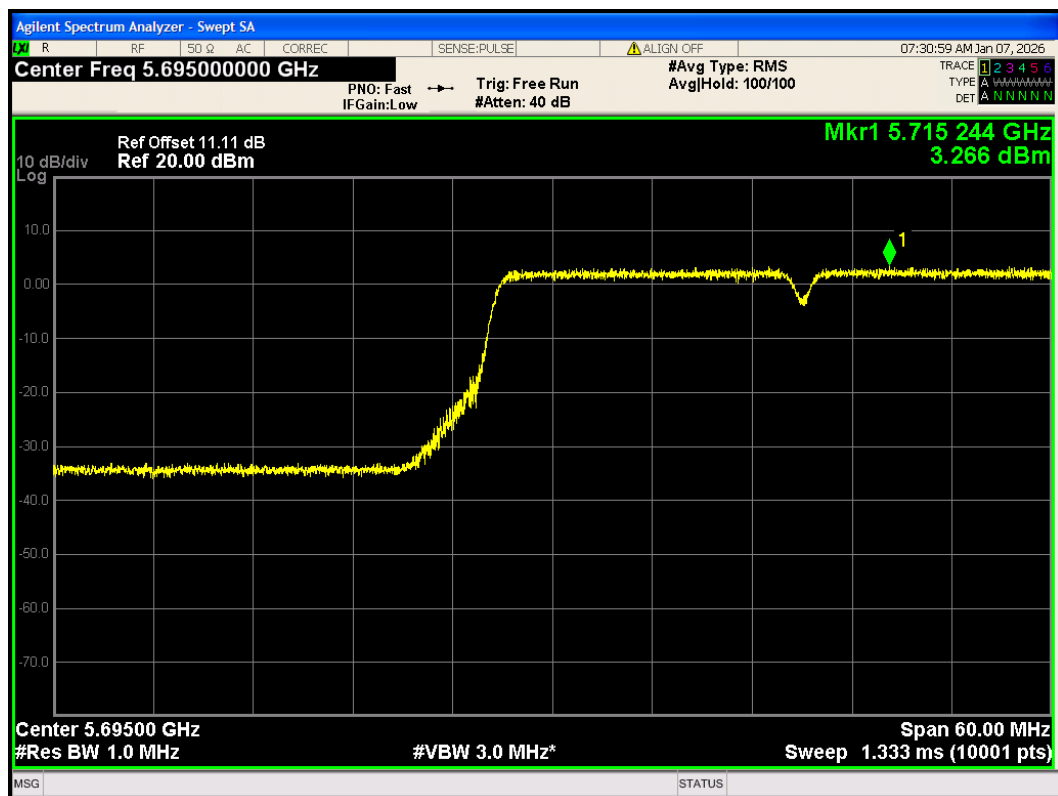
PSD 802.11n(HT40) 5590MHz



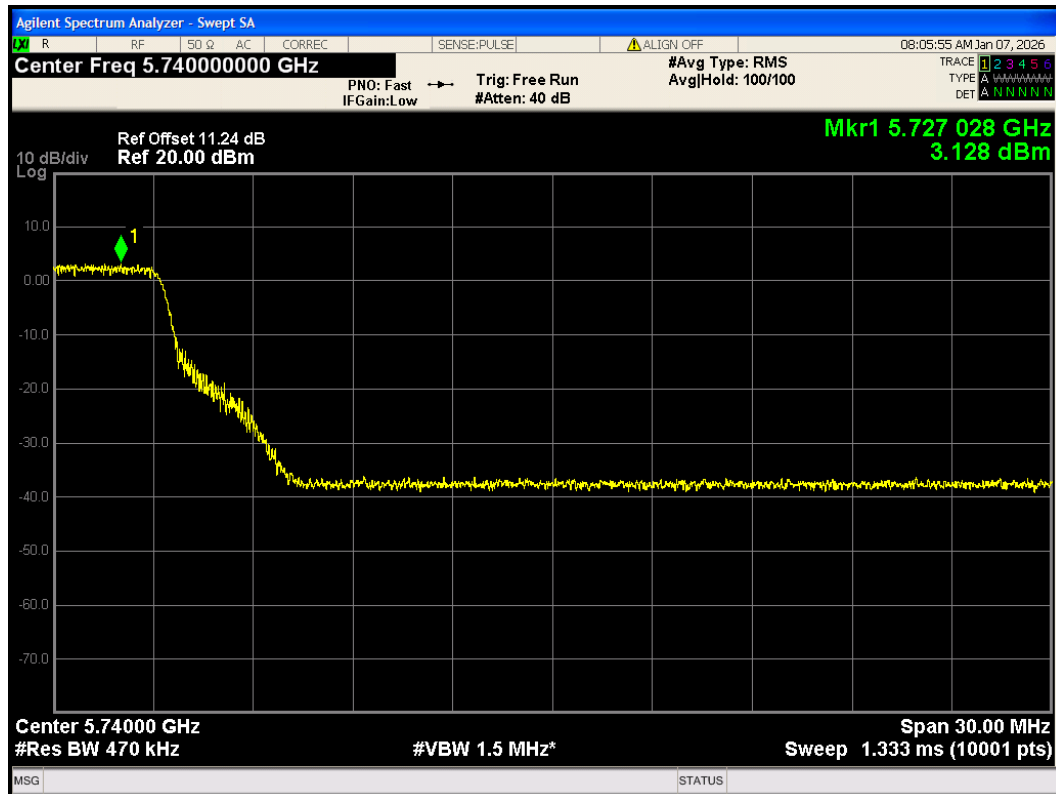
PSD 802.11n(HT40) 5670MHz



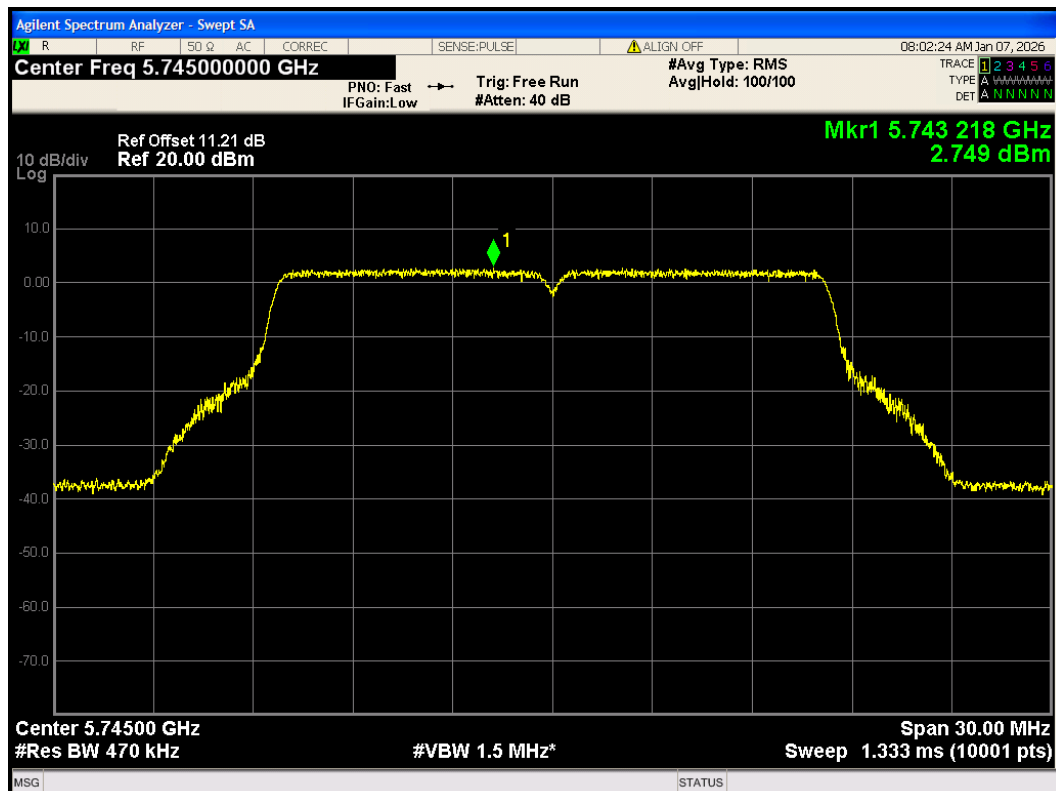
PSD 802.11n(HT40) 5710MHz



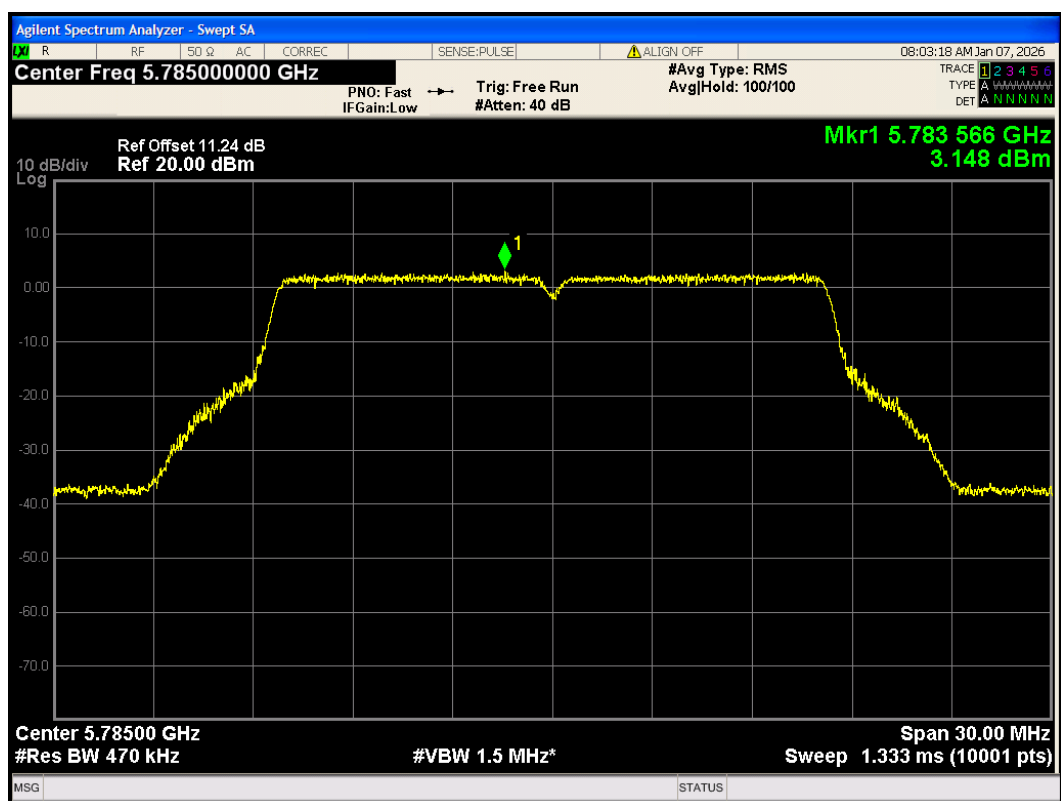
PSD 802.11a 5720MHz



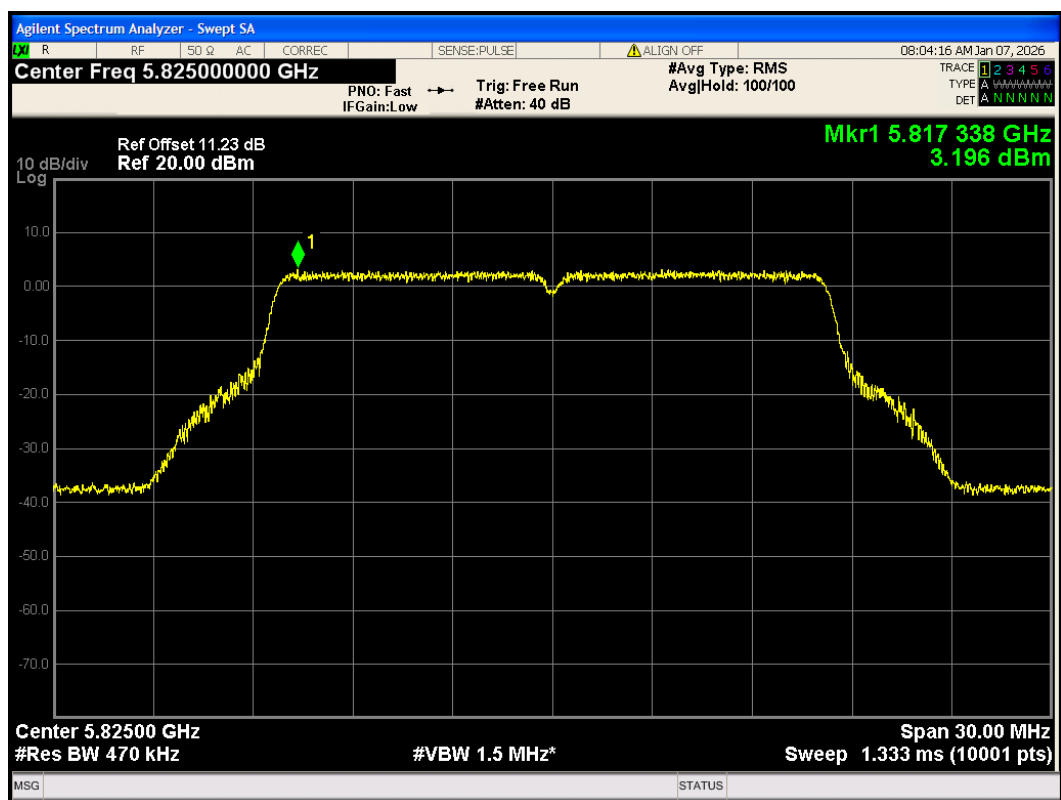
PSD 802.11a 5745MHz



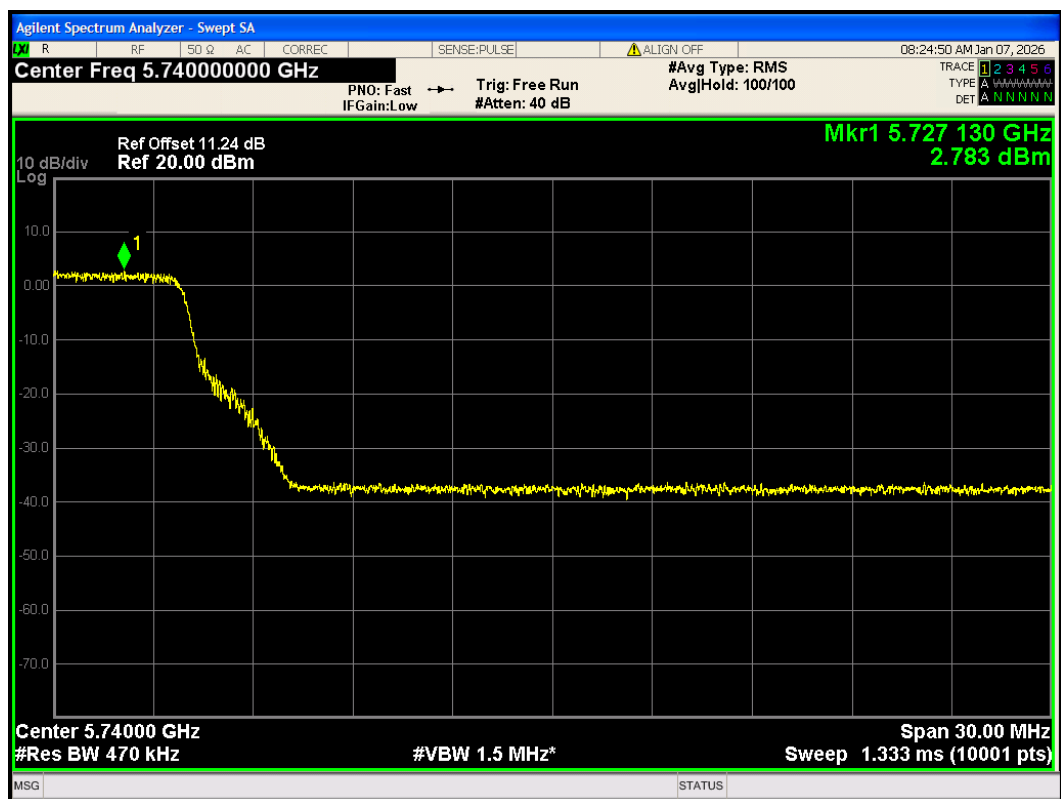
PSD 802.11a 5785MHz



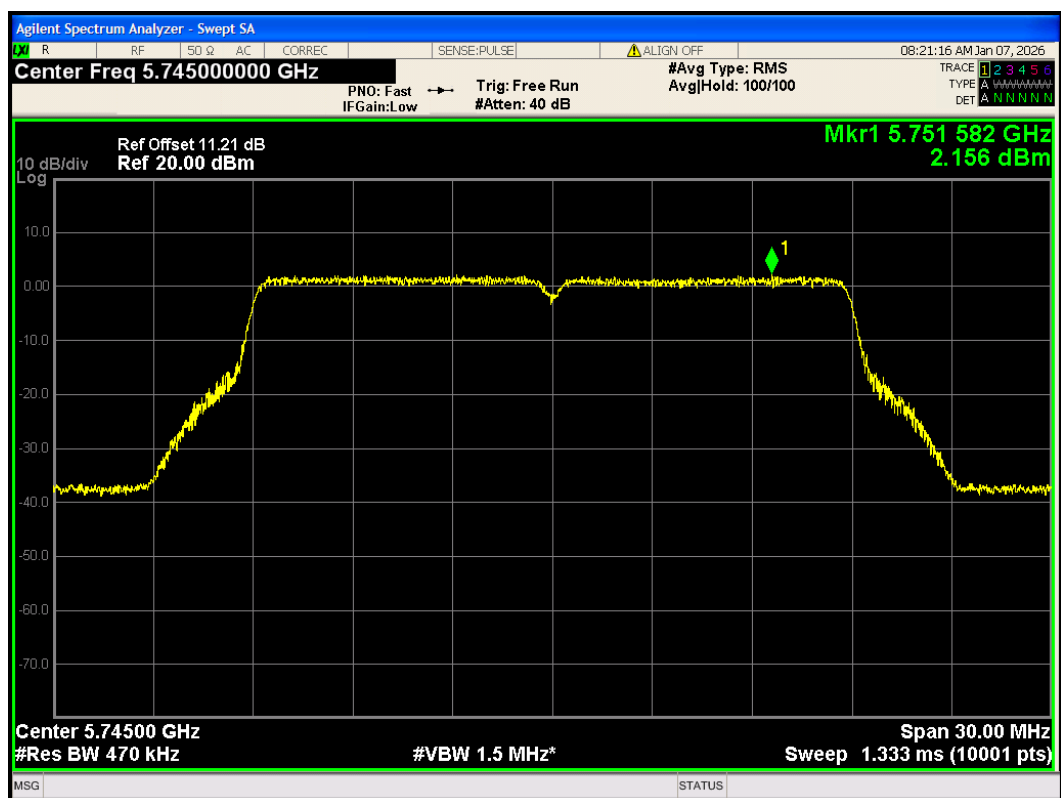
PSD 802.11a 5825MHz



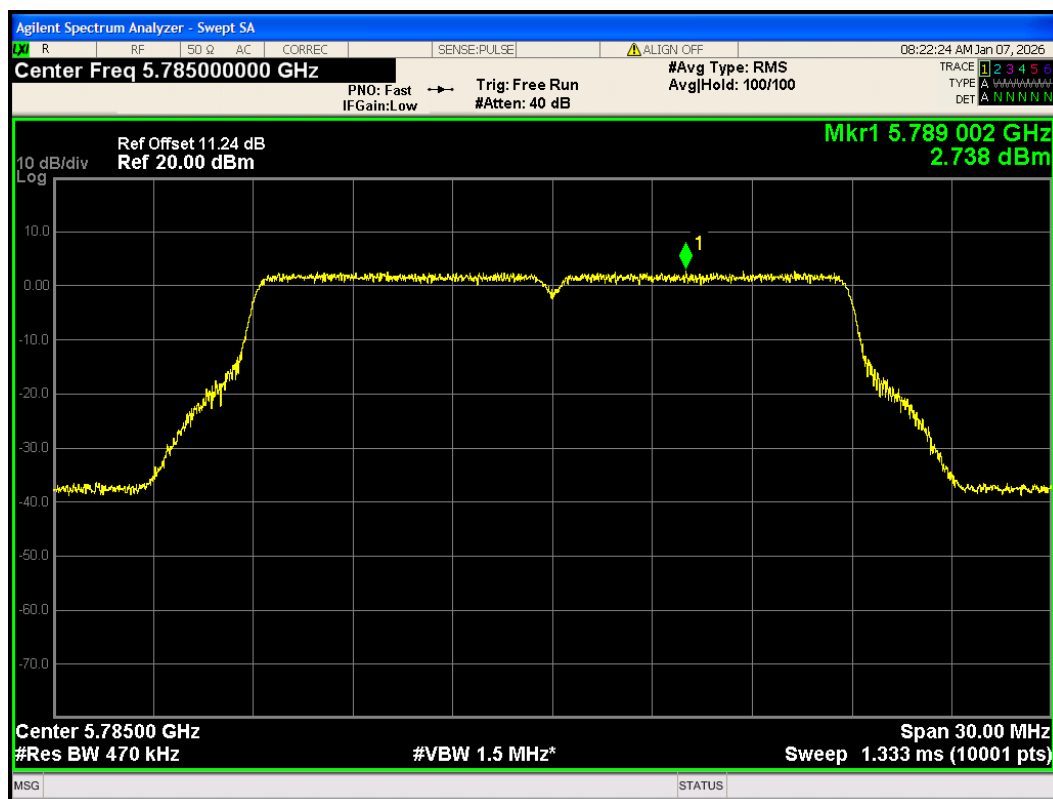
PSD 802.11ac(VHT20) 5720MHz



PSD 802.11ac(VHT20) 5745MHz



PSD 802.11ac(VHT20) 5785MHz



PSD 802.11ac(VHT20) 5825MHz

