

## Appendix B:Maximum Conducted Output Power

Test Mode	Antenna	Frequency[MHz]	Power [dBm]	FCC Limit [dBm]	ISED Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	13.11	≤23.98	---	15.41	≤22.20	PASS
		5200	13.36	≤23.98	---	15.66	≤22.21	PASS
		5240	13.47	≤23.98	---	15.77	≤22.21	PASS
		5260	13.05	≤23.98	≤23.20	15.35	≤29.20	PASS
		5280	12.95	≤23.98	≤23.20	15.25	≤29.20	PASS
		5320	12.94	≤23.98	≤23.20	15.24	≤29.20	PASS
		5500	10.46	≤23.98	≤23.21	12.76	≤29.21	PASS
		5580	10.14	≤23.98	≤23.22	12.44	≤29.22	PASS
		5700	10.75	≤23.98	≤23.21	13.05	≤29.21	PASS
		5720_UNII-2C	9.17	≤22.96	≤22.24	11.53	≤28.24	PASS
		5720_UNII-3	3.32	≤30.00	≤30.00	5.65	---	PASS
		5745	13.06	≤30.00	≤30.00	15.36	---	PASS
		5785	12.59	≤30.00	≤30.00	14.89	---	PASS
		5825	13.36	≤30.00	≤30.00	15.66	---	PASS
11N20SISO	Ant1	5180	11.98	≤23.98	---	14.28	≤22.48	PASS
		5200	12.38	≤23.98	---	14.68	≤22.47	PASS
		5240	12.6	≤23.98	---	14.90	≤22.48	PASS
		5260	12.17	≤23.98	≤23.47	14.47	≤29.47	PASS
		5280	12.18	≤23.98	≤23.48	14.48	≤29.48	PASS
		5320	12.19	≤23.98	≤23.48	14.49	≤29.48	PASS
		5500	9.43	≤23.98	≤23.48	11.73	≤29.48	PASS
		5580	9.42	≤23.98	≤23.49	11.72	≤29.49	PASS
		5700	9.4	≤23.98	≤23.52	11.70	≤29.52	PASS
		5720_UNII-2C	8.2	≤22.94	≤22.42	10.50	≤28.42	PASS
		5720_UNII-3	2.71	≤30.00	≤30.00	5.01	---	PASS
		5745	12.58	≤30.00	≤30.00	14.88	---	PASS
		5785	12.21	≤30.00	≤30.00	14.51	---	PASS
		5825	12.33	≤30.00	≤30.00	14.63	---	PASS
11N40SISO	Ant1	5190	11.48	≤23.98	---	13.78	≤23.00	PASS
		5230	12.56	≤23.98	---	14.86	≤23.00	PASS
		5270	12.25	≤23.98	≤23.98	14.55	≤30.00	PASS
		5310	12.34	≤23.98	≤23.98	14.64	≤30.00	PASS
		5510	12.24	≤23.98	≤23.98	14.54	≤30.00	PASS
		5550	12.49	≤23.98	≤23.98	14.79	≤30.00	PASS

		5670	11.11	≤23.98	≤23.98	13.41	≤30.00	PASS
		5710_UNII-2C	10.5	≤23.98	≤23.98	12.80	≤30.00	PASS
		5710_UNII-3	0.13	≤30.00	≤30.00	2.43	---	PASS
		5755	12.07	≤30.00	≤30.00	14.37	---	PASS
		5795	11.88	≤30.00	≤30.00	14.18	---	PASS
11AC80SISO	Ant1	5210	10.29	≤23.98	---	12.59	≤23.00	PASS
		5290	9.97	≤23.98	≤23.98	12.27	≤30.00	PASS
		5530	10.14	≤23.98	≤23.98	12.44	≤30.00	PASS
		5610	10.65	≤23.98	≤23.98	12.95	≤30.00	PASS
		5690_UNII-2C	9.71	≤23.98	≤23.98	12.01	≤30.00	PASS
		5690_UNII-3	-3.75	≤30.00	≤30.00	-1.45	---	PASS
		5775	10.44	≤30.00	≤30.00	12.74	---	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor

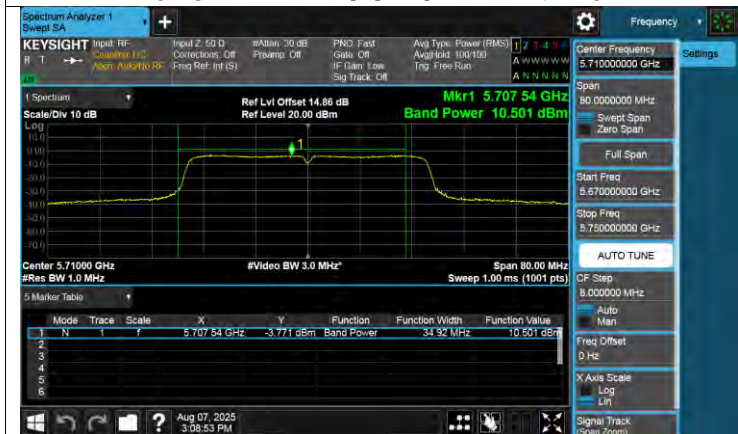
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.



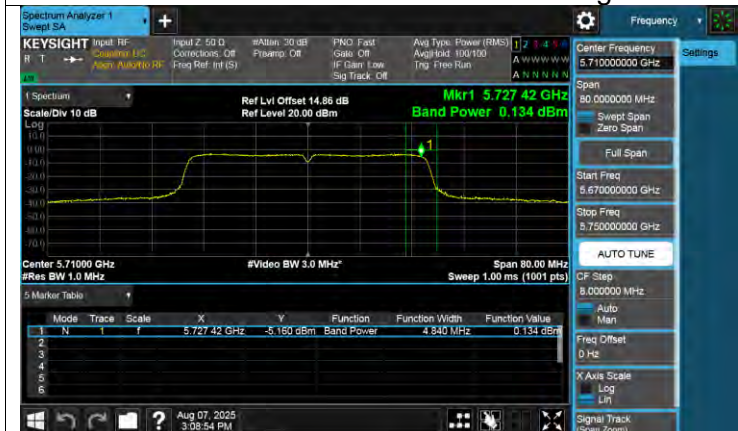
### Power NVNT n20 5720MHz Ant1 High



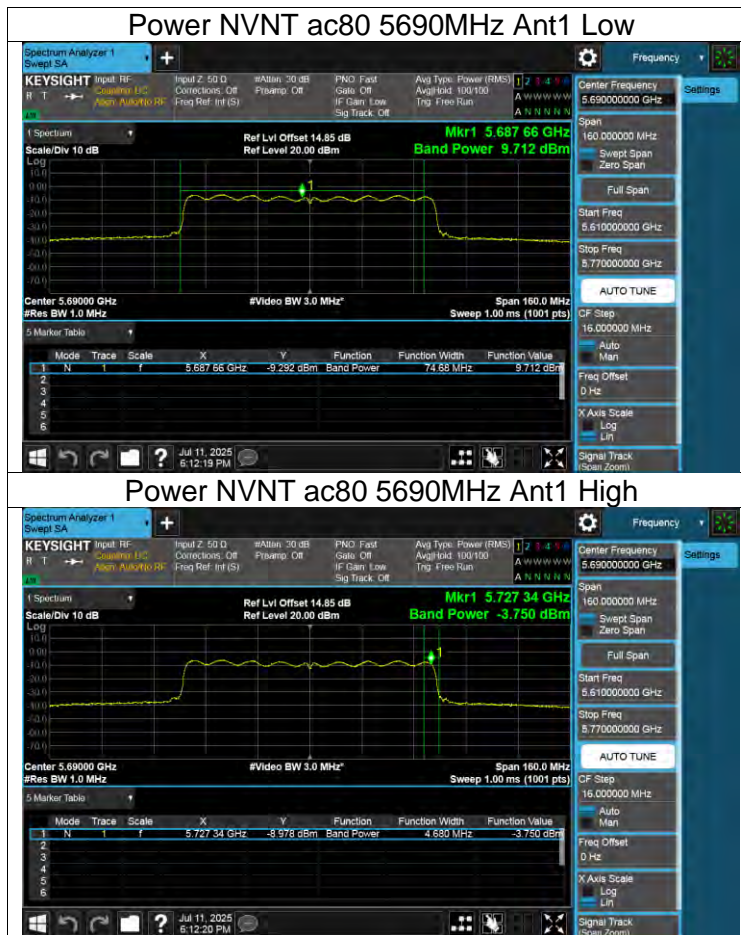
### Power NVNT n40 5710MHz Ant1 Low



### Power NVNT n40 5710MHz Ant1 High







## Appendix C:-26dB Bandwidth

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	25.057	Pass
a	5200	Ant1	25.949	Pass
a	5240	Ant1	25.437	Pass
a	5260	Ant1	23.618	Pass
a	5280	Ant1	23.598	Pass
a	5320	Ant1	25.196	Pass
a	5500	Ant1	25.182	Pass
a	5580	Ant1	25.298	Pass
a	5700	Ant1	23.524	Pass
a	5720 Low	Ant1	15.72	Pass
a	5720 High	Ant1	6.08	Pass
a	5745	Ant1	20.917	Pass
a	5785	Ant1	23.401	Pass
a	5825	Ant1	20.592	Pass
n20	5180	Ant1	21.706	Pass
n20	5200	Ant1	21.75	Pass
n20	5240	Ant1	21.789	Pass
n20	5260	Ant1	21.737	Pass
n20	5280	Ant1	21.778	Pass
n20	5320	Ant1	21.353	Pass
n20	5500	Ant1	21.767	Pass
n20	5580	Ant1	21.718	Pass
n20	5700	Ant1	21.512	Pass
n20	5720 Low	Ant1	15.64	Pass
n20	5720 High	Ant1	5.6	Pass
n20	5745	Ant1	21.672	Pass
n20	5785	Ant1	21.723	Pass
n20	5825	Ant1	25.803	Pass
n40	5190	Ant1	42.502	Pass
n40	5230	Ant1	41.912	Pass
n40	5270	Ant1	41.697	Pass
n40	5310	Ant1	42.473	Pass
n40	5510	Ant1	41.978	Pass
n40	5550	Ant1	42.3	Pass
n40	5670	Ant1	41.642	Pass
n40	5710 Low	Ant1	36.04	Pass
n40	5710 High	Ant1	5.56	Pass
n40	5755	Ant1	41.962	Pass
n40	5795	Ant1	41.716	Pass
ac80	5210	Ant1	82.149	Pass
ac80	5290	Ant1	82.557	Pass
ac80	5530	Ant1	82.423	Pass
ac80	5610	Ant1	82.299	Pass
ac80	5690 Low	Ant1	76.28	Pass
ac80	5690 High	Ant1	5.48	Pass
ac80	5775	Ant1	82.907	Pass

### Test Graphs

#### -26dB Bandwidth NVNT a 5180MHz Ant1

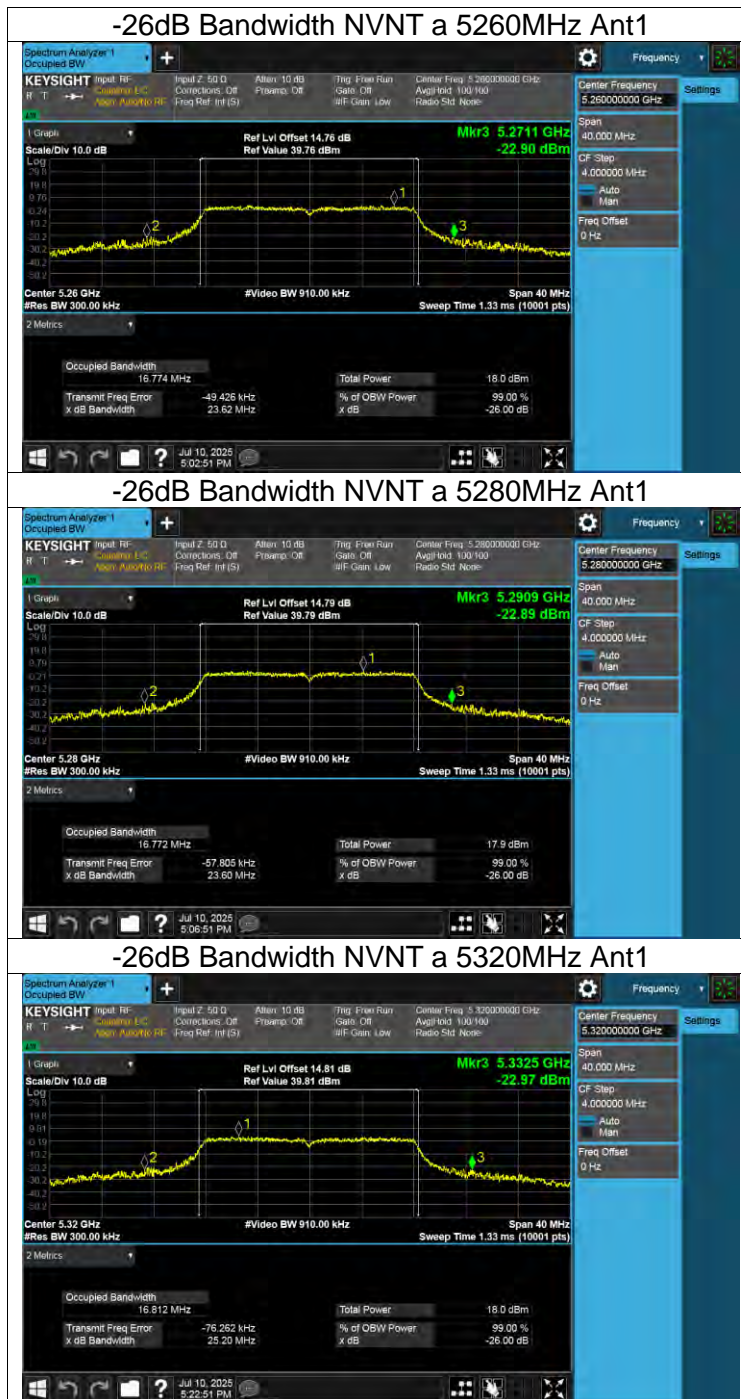


#### -26dB Bandwidth NVNT a 5200MHz Ant1



#### -26dB Bandwidth NVNT a 5240MHz Ant1







### -26dB Bandwidth NVNT a 5500MHz Ant1



### -26dB Bandwidth NVNT a 5580MHz Ant1



### -26dB Bandwidth NVNT a 5700MHz Ant1



### -26dB Bandwidth NVNT a 5720MHz Ant1

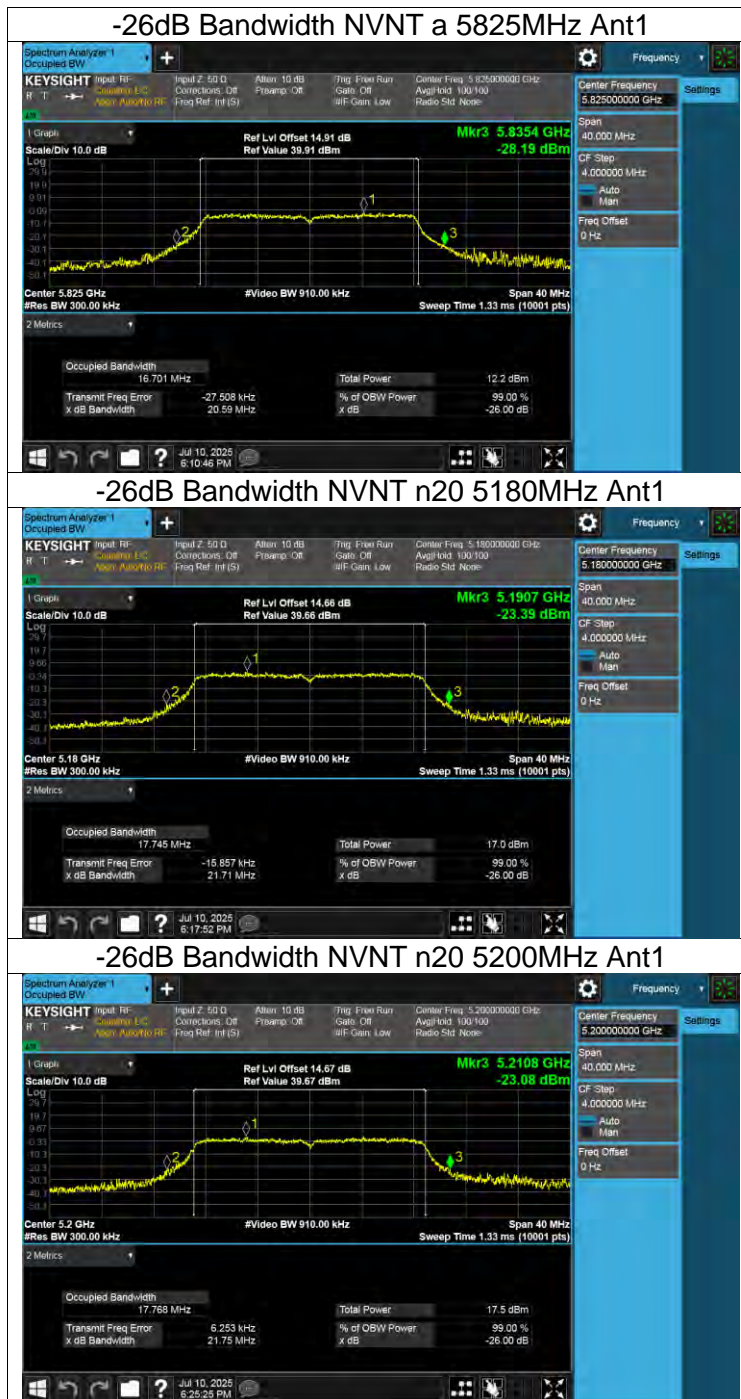


### -26dB Bandwidth NVNT a 5745MHz Ant1

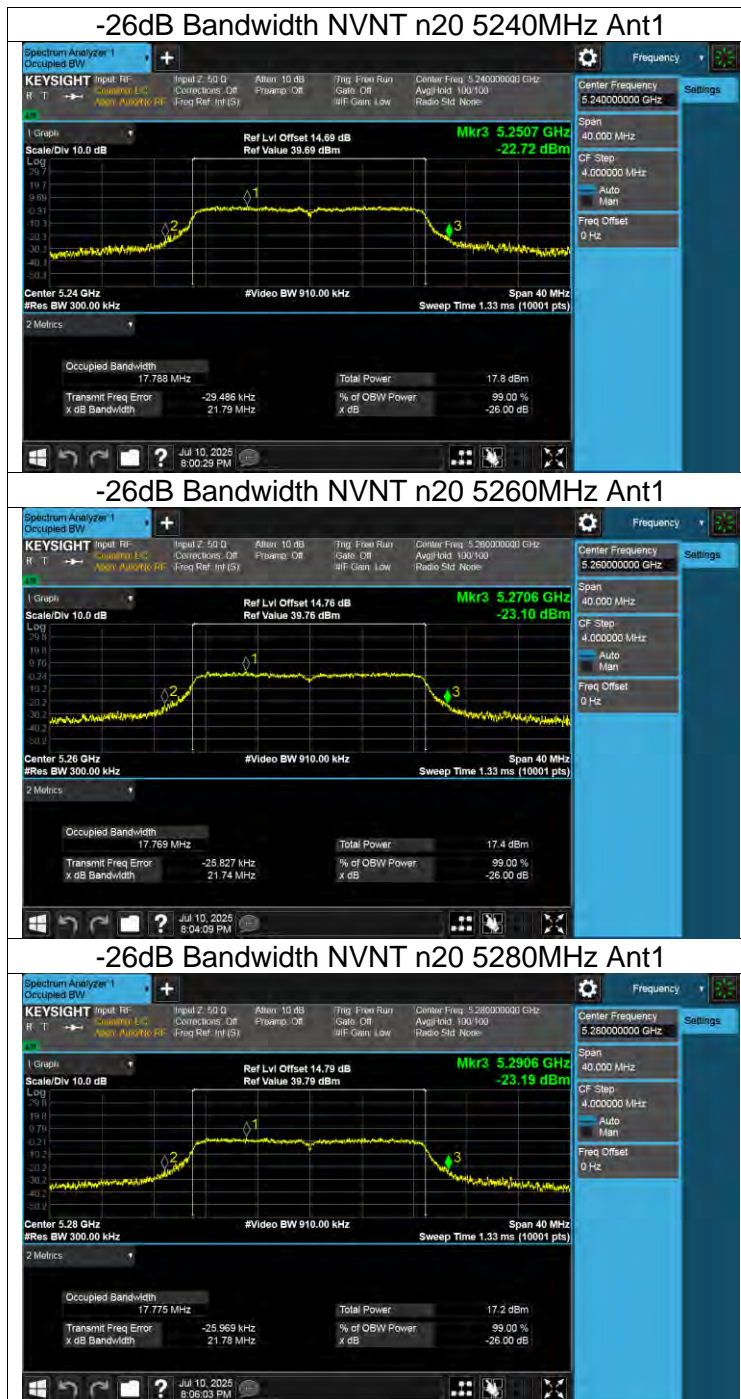


### -26dB Bandwidth NVNT a 5785MHz Ant1











### -26dB Bandwidth NVNT n20 5320MHz Ant1

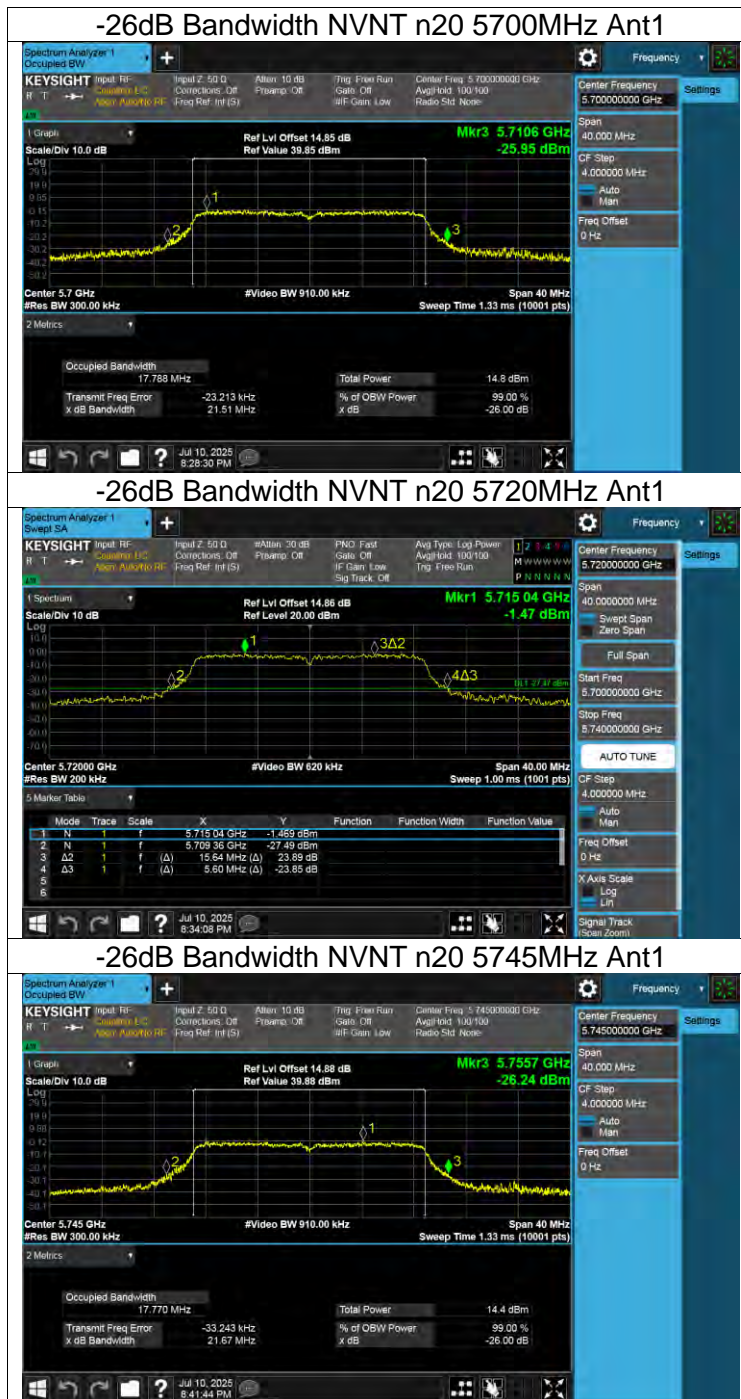


### -26dB Bandwidth NVNT n20 5500MHz Ant1



### -26dB Bandwidth NVNT n20 5580MHz Ant1





### -26dB Bandwidth NVNT n20 5785MHz Ant1



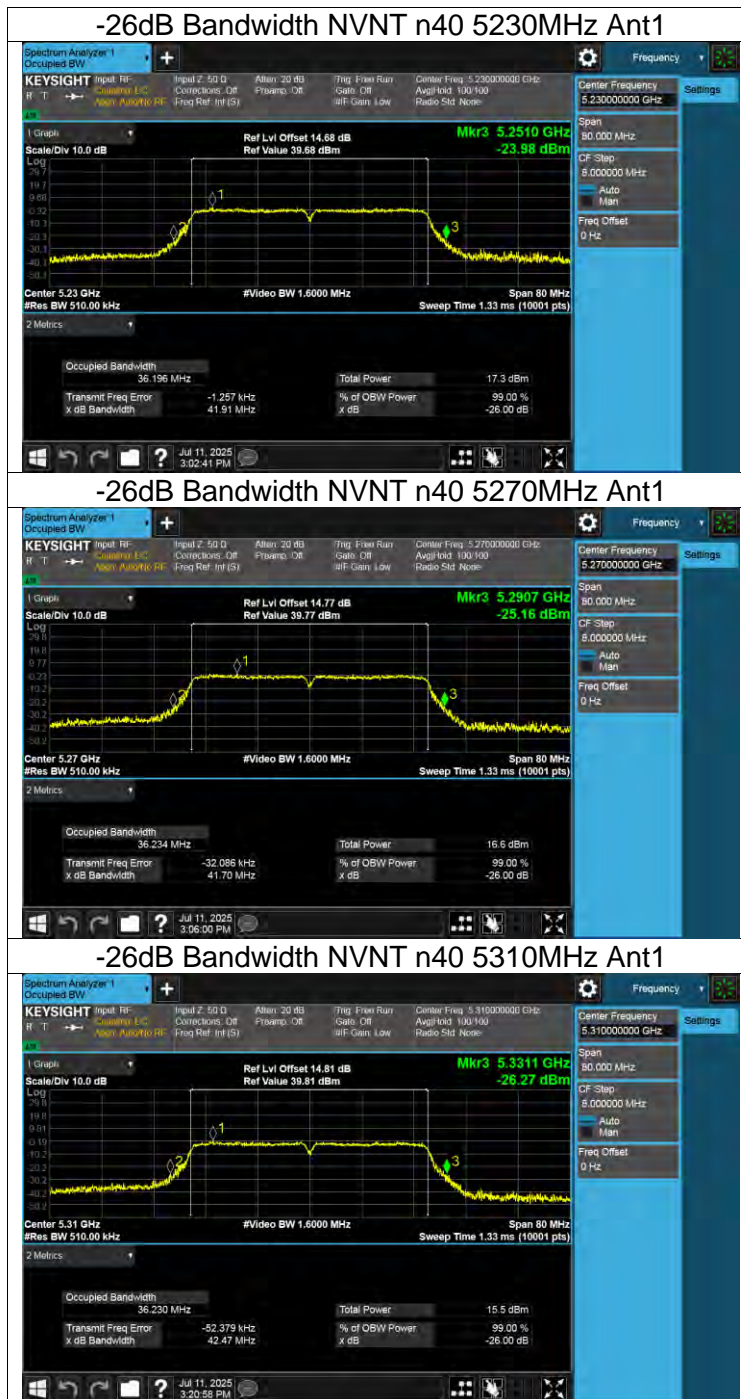
### -26dB Bandwidth NVNT n20 5825MHz Ant1



### -26dB Bandwidth NVNT n40 5190MHz Ant1









### -26dB Bandwidth NVNT n40 5510MHz Ant1



### -26dB Bandwidth NVNT n40 5550MHz Ant1



### -26dB Bandwidth NVNT n40 5670MHz Ant1



### -26dB Bandwidth NVNT n40 5710MHz Ant1

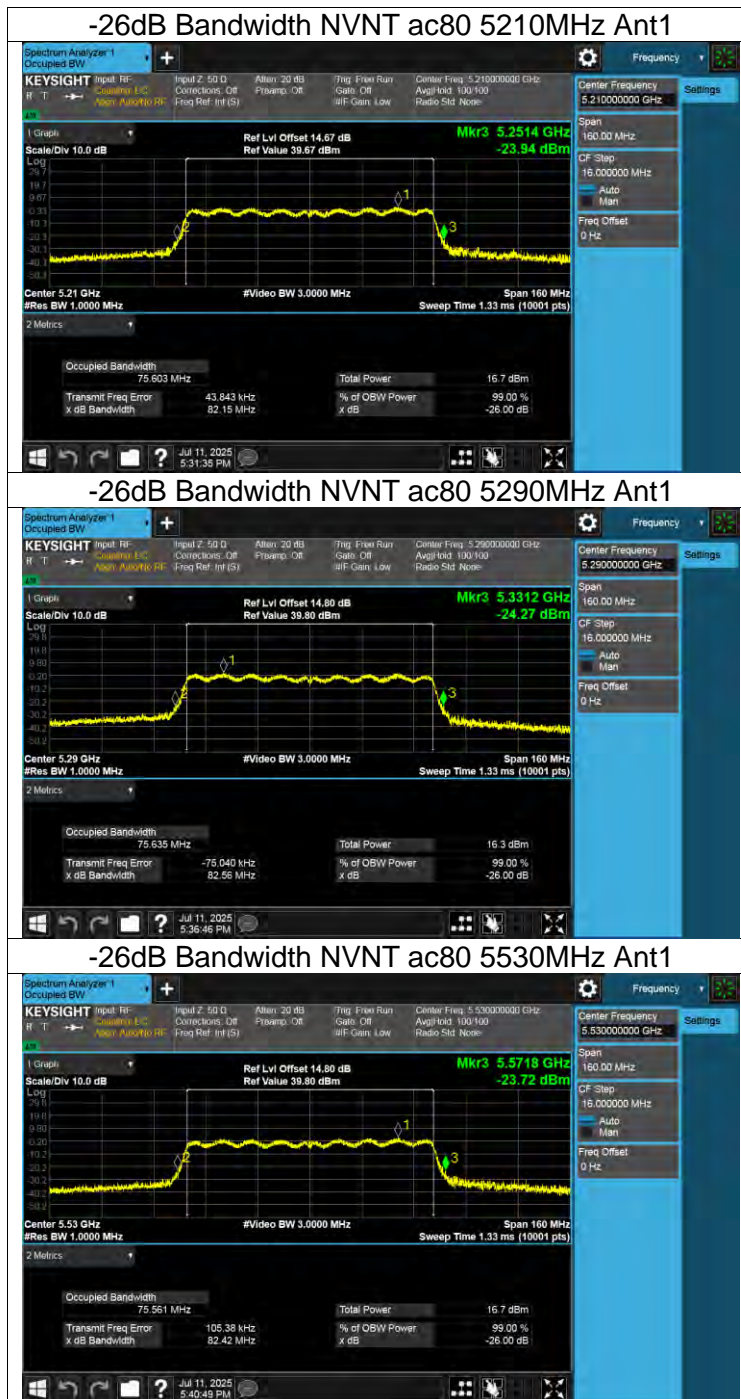


### -26dB Bandwidth NVNT n40 5755MHz Ant1

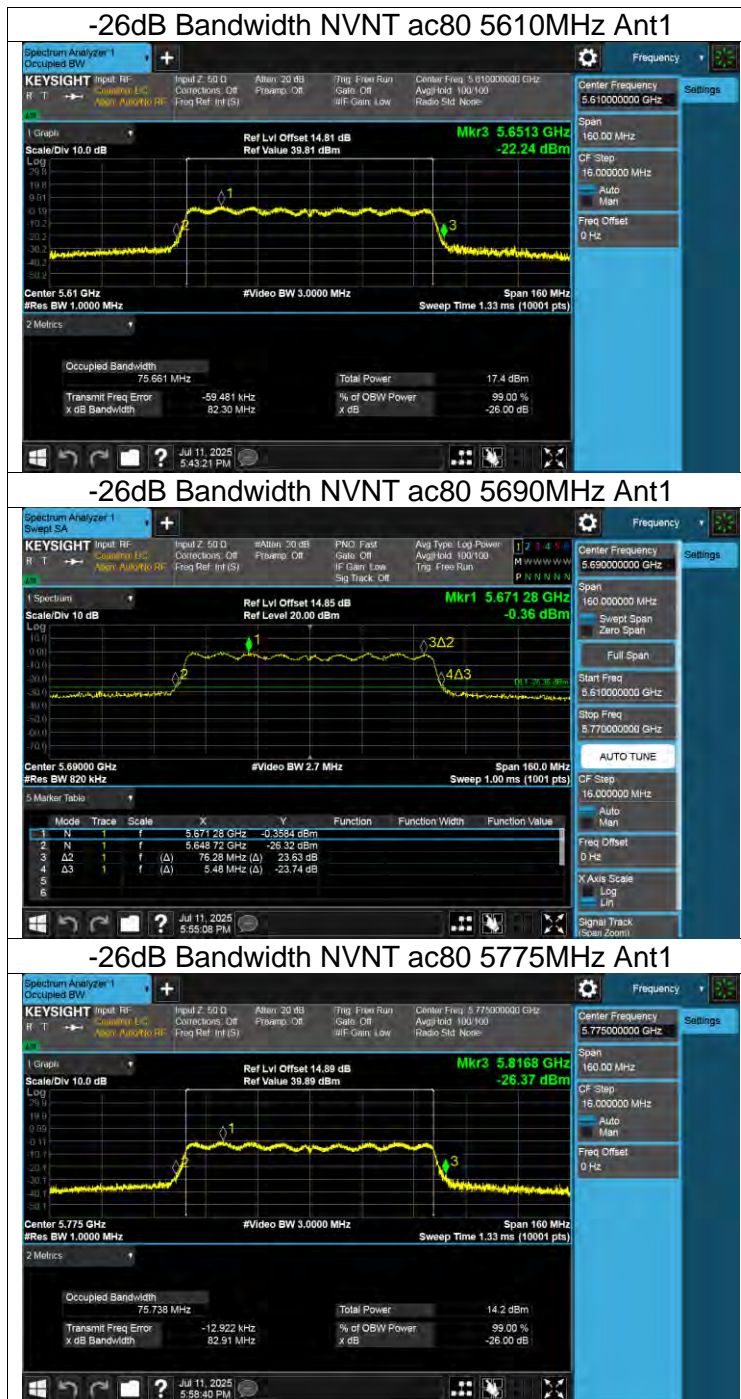


### -26dB Bandwidth NVNT n40 5795MHz Ant1











## Appendix D:Occupied Channel Bandwidth

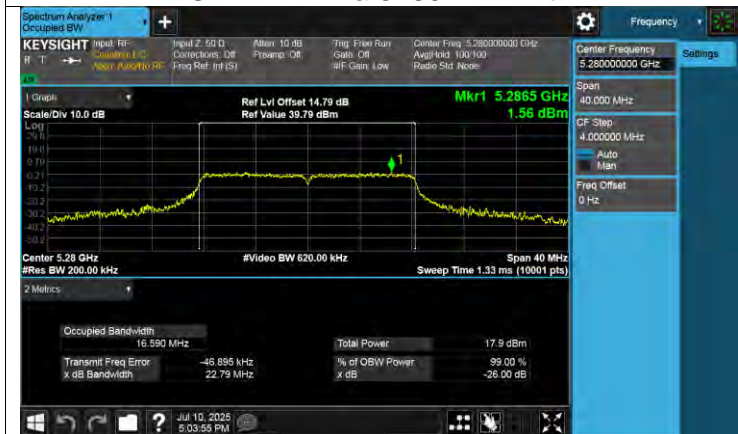
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.587
a	5200	Ant1	16.619
a	5240	Ant1	16.621
a	5260	Ant1	16.6
a	5280	Ant1	16.59
a	5320	Ant1	16.577
a	5500	Ant1	16.633
a	5580	Ant1	16.658
a	5700	Ant1	16.618
a	5720 Low	Ant1	13.31
a	5720 High	Ant1	3.31
a	5745	Ant1	16.55
a	5785	Ant1	16.588
a	5825	Ant1	16.638
n20	5180	Ant1	17.682
n20	5200	Ant1	17.68
n20	5240	Ant1	17.689
n20	5260	Ant1	17.678
n20	5280	Ant1	17.693
n20	5320	Ant1	17.699
n20	5500	Ant1	17.685
n20	5580	Ant1	17.724
n20	5700	Ant1	17.864
n20	5720 Low	Ant1	13.855
n20	5720 High	Ant1	3.855
n20	5745	Ant1	17.665
n20	5785	Ant1	17.684
n20	5825	Ant1	17.719
n40	5190	Ant1	36.21
n40	5230	Ant1	36.202
n40	5270	Ant1	36.188
n40	5310	Ant1	36.17
n40	5510	Ant1	36.164
n40	5550	Ant1	36.155
n40	5670	Ant1	36.219
n40	5710 Low	Ant1	33.1005
n40	5710 High	Ant1	3.1005
n40	5755	Ant1	36.204
n40	5795	Ant1	36.245
ac80	5210	Ant1	75.476
ac80	5290	Ant1	75.546
ac80	5530	Ant1	75.481
ac80	5610	Ant1	75.523
ac80	5690 Low	Ant1	72.8355
ac80	5690 High	Ant1	2.8355
ac80	5775	Ant1	75.698



### OBW NVNT a 5260MHz Ant1



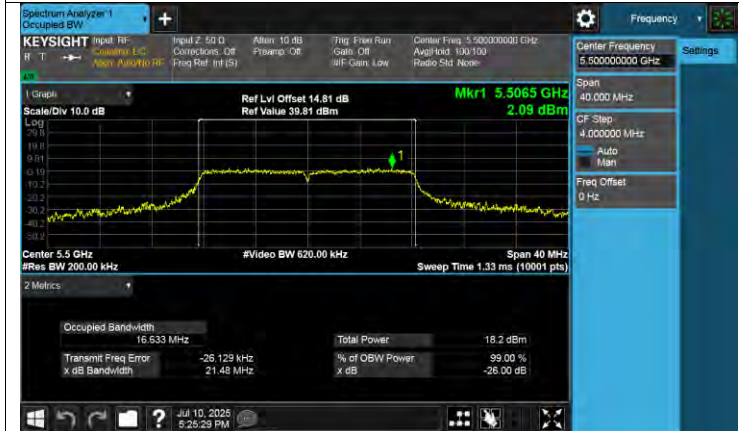
### OBW NVNT a 5280MHz Ant1



### OBW NVNT a 5320MHz Ant1



### OBW NVNT a 5500MHz Ant1



### OBW NVNT a 5580MHz Ant1

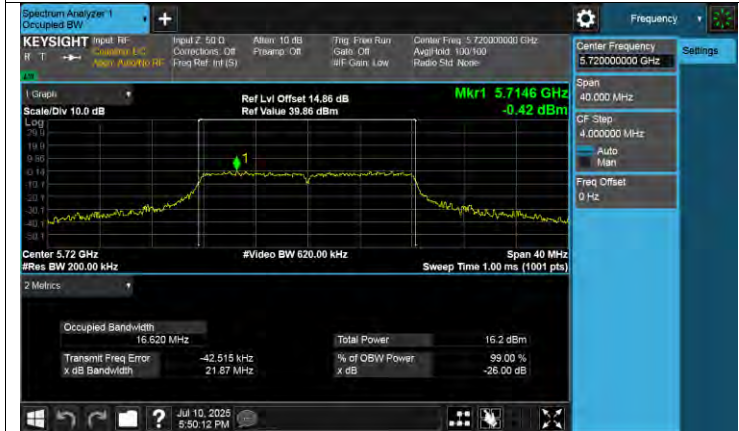


### OBW NVNT a 5700MHz Ant1





### OBW NVNT a 5720MHz Ant1



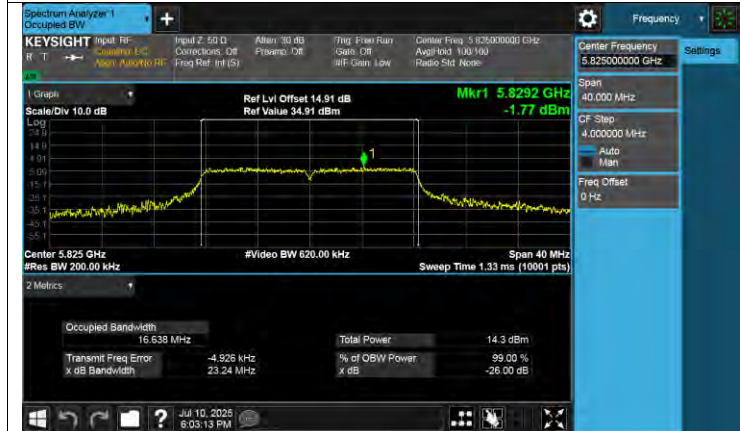
### OBW NVNT a 5745MHz Ant1



### OBW NVNT a 5785MHz Ant1



### OBW NVNT a 5825MHz Ant1



### OBW NVNT n20 5180MHz Ant1

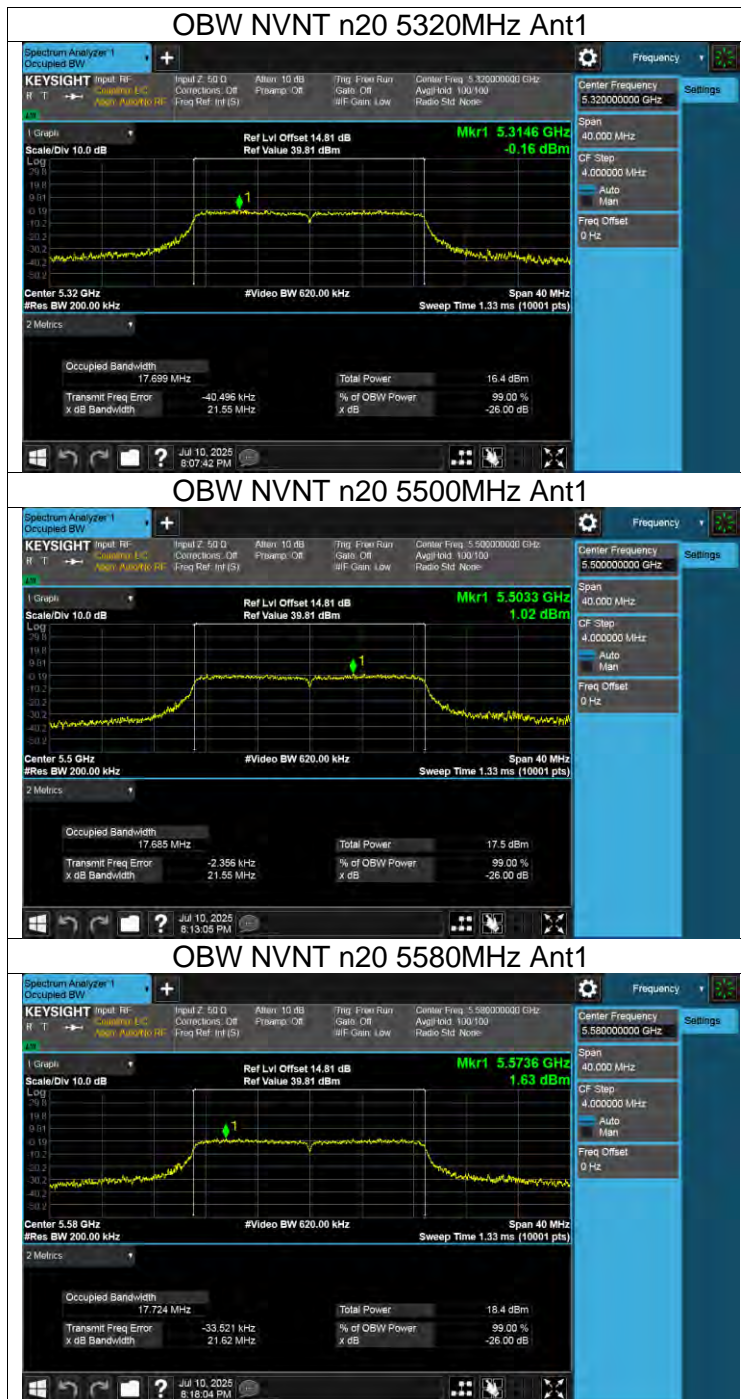


### OBW NVNT n20 5200MHz Ant1

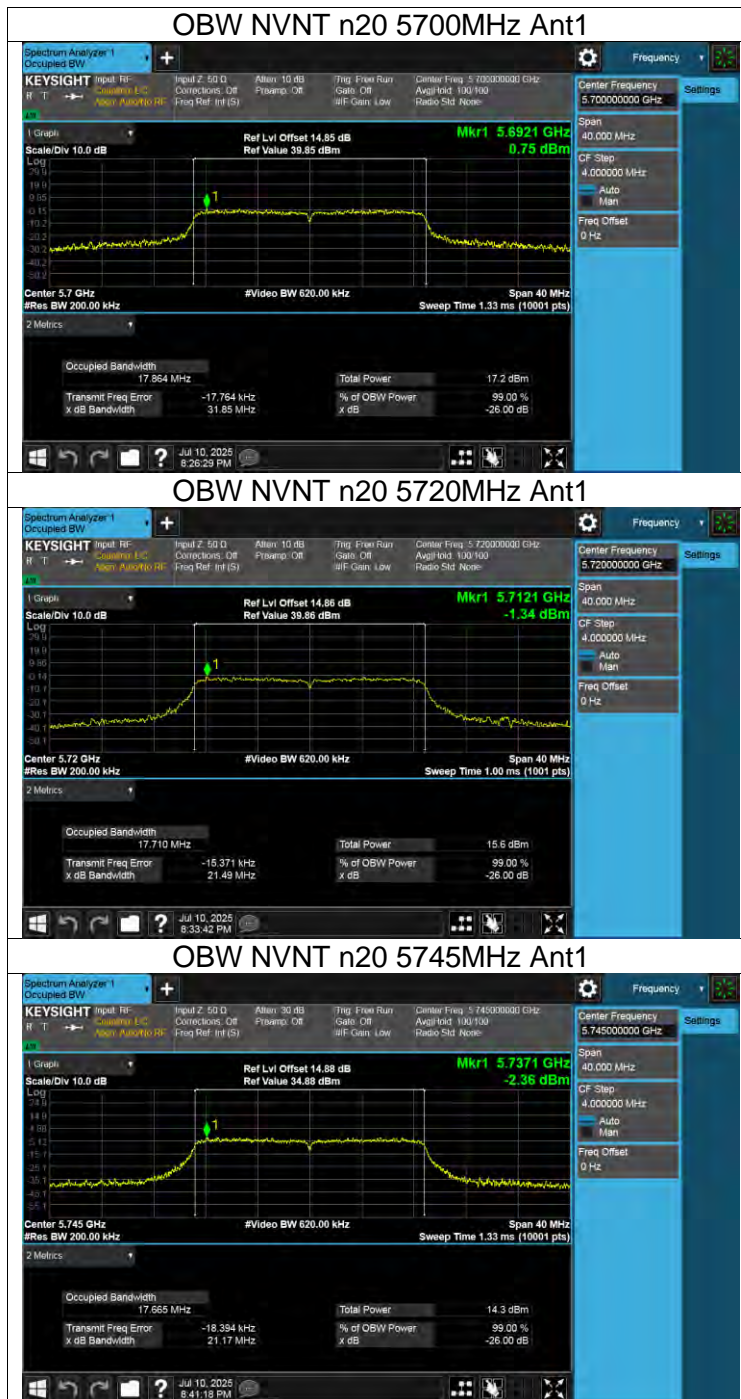














### OBW NVNT n40 5230MHz Ant1



### OBW NVNT n40 5270MHz Ant1



### OBW NVNT n40 5310MHz Ant1





### OBW NVNT n40 5510MHz Ant1



### OBW NVNT n40 5550MHz Ant1



### OBW NVNT n40 5670MHz Ant1





### OBW NVNT n40 5710MHz Ant1

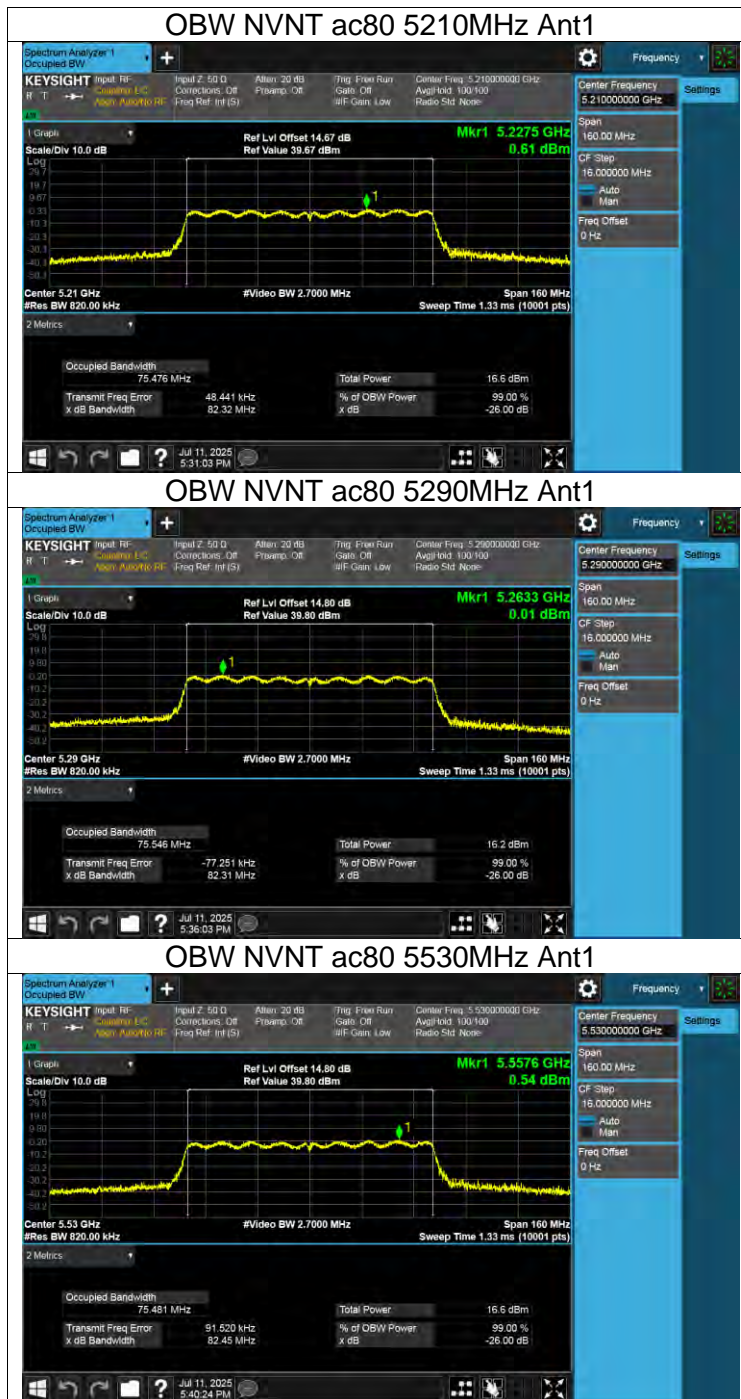


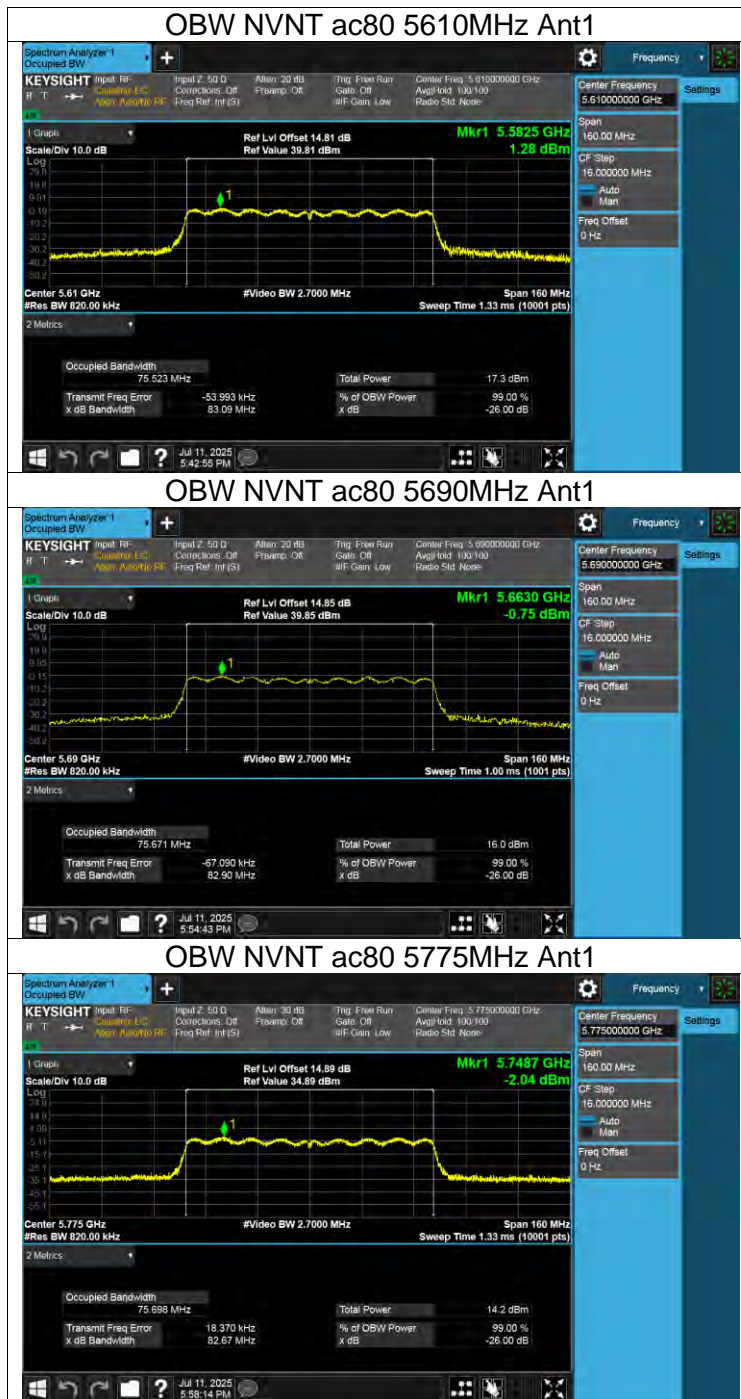
### OBW NVNT n40 5755MHz Ant1



### OBW NVNT n40 5795MHz Ant1





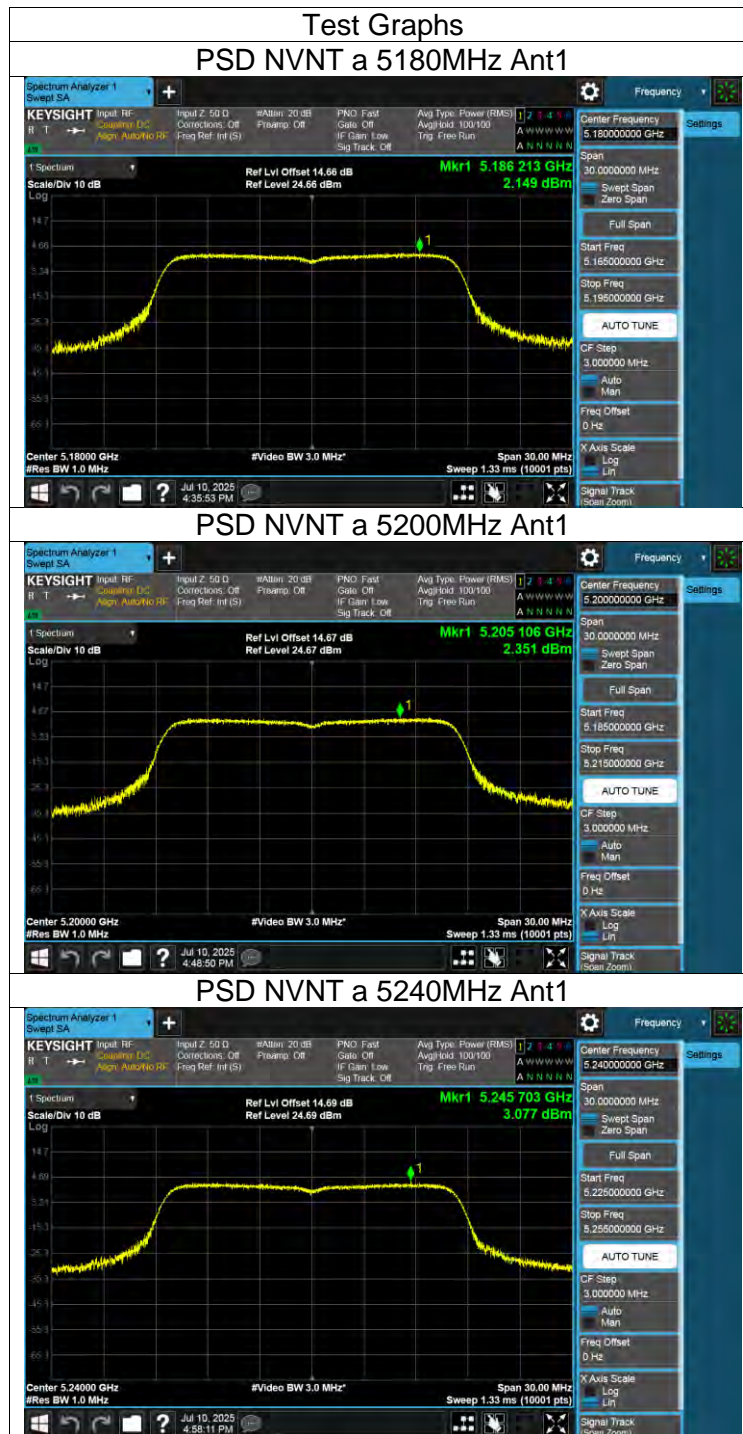


## Appendix E:Maximum Power Spectral Density Level

Mode	Frequency (MHz)	Antenna	PSD (dBm)	Limit (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	2.15	11	3.15	10	Pass
a	5200	Ant1	2.35	11	3.35	10	Pass
a	5240	Ant1	3.08	11	4.08	10	Pass
a	5260	Ant1	1.98	11	2.98	---	Pass
a	5280	Ant1	1.89	11	2.89	---	Pass
a	5320	Ant1	2.08	11	3.08	---	Pass
a	5500	Ant1	-0.51	11	0.49	---	Pass
a	5580	Ant1	-0.62	11	0.38	---	Pass
a	5700	Ant1	-0.2	11	0.8	---	Pass
a	5720 Low	Ant1	-1.4	11	-0.4	---	Pass
a	5720 High	Ant1	-4.54	30	-3.54	---	Pass
a	5745	Ant1	-1.01	30	-0.01	---	Pass
a	5785	Ant1	-1.6	30	-0.6	---	Pass
a	5825	Ant1	-0.73	30	0.27	---	Pass
n20	5180	Ant1	0.74	11	1.74	10	Pass
n20	5200	Ant1	1.16	11	2.16	10	Pass
n20	5240	Ant1	1.53	11	2.53	10	Pass
n20	5260	Ant1	1.3	11	2.3	---	Pass
n20	5280	Ant1	1.13	11	2.13	---	Pass
n20	5320	Ant1	1.23	11	2.23	---	Pass
n20	5500	Ant1	-1.99	11	-0.99	---	Pass
n20	5580	Ant1	-1.56	11	-0.56	---	Pass
n20	5700	Ant1	-1.6	11	-0.6	---	Pass
n20	5720 Low	Ant1	-2.41	11	-1.41	---	Pass
n20	5720 High	Ant1	-5.58	30	-4.58	---	Pass
n20	5745	Ant1	-1.42	30	-0.42	---	Pass
n20	5785	Ant1	-2	30	-1	---	Pass
n20	5825	Ant1	-1.31	30	-0.31	---	Pass
n40	5190	Ant1	-1.57	11	-0.57	10	Pass
n40	5230	Ant1	-0.78	11	0.22	10	Pass
n40	5270	Ant1	-1.28	11	-0.28	---	Pass
n40	5310	Ant1	-1.24	11	-0.24	---	Pass
n40	5510	Ant1	-1.02	11	-0.02	---	Pass
n40	5550	Ant1	-1.37	11	-0.37	---	Pass
n40	5670	Ant1	-2.29	11	-1.29	---	Pass
n40	5710 Low	Ant1	-3.29	11	-2.29	---	Pass
n40	5710 High	Ant1	-6.42	30	-5.42	---	Pass
n40	5755	Ant1	-4.22	30	-3.22	---	Pass
n40	5795	Ant1	-4.34	30	-3.34	---	Pass
ac80	5210	Ant1	-5.57	11	-4.57	10	Pass
ac80	5290	Ant1	-5.58	11	-4.58	---	Pass
ac80	5530	Ant1	-5.13	11	-4.13	---	Pass
ac80	5610	Ant1	-4.53	11	-3.53	---	Pass
ac80	5690 Low	Ant1	-5.92	11	-4.92	---	Pass
ac80	5690 High	Ant1	-10.31	30	-9.31	---	Pass
ac80	5775	Ant1	-7.9	30	-6.9	---	Pass



Note: 1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



### PSD NVNT a 5260MHz Ant1



### PSD NVNT a 5280MHz Ant1



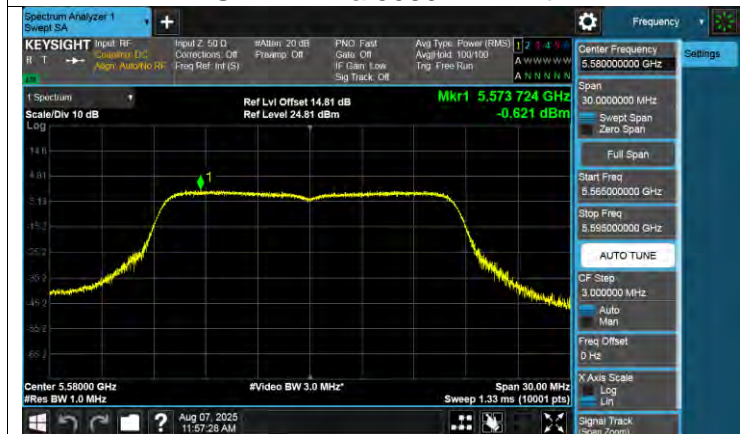
### PSD NVNT a 5320MHz Ant1



### PSD NVNT a 5500MHz Ant1



### PSD NVNT a 5580MHz Ant1



### PSD NVNT a 5700MHz Ant1





### PSD NVNT a 5720MHz Ant1 Low



### PSD NVNT a 5720MHz Ant1 High



### PSD NVNT a 5745MHz Ant1



### PSD NVNT a 5785MHz Ant1

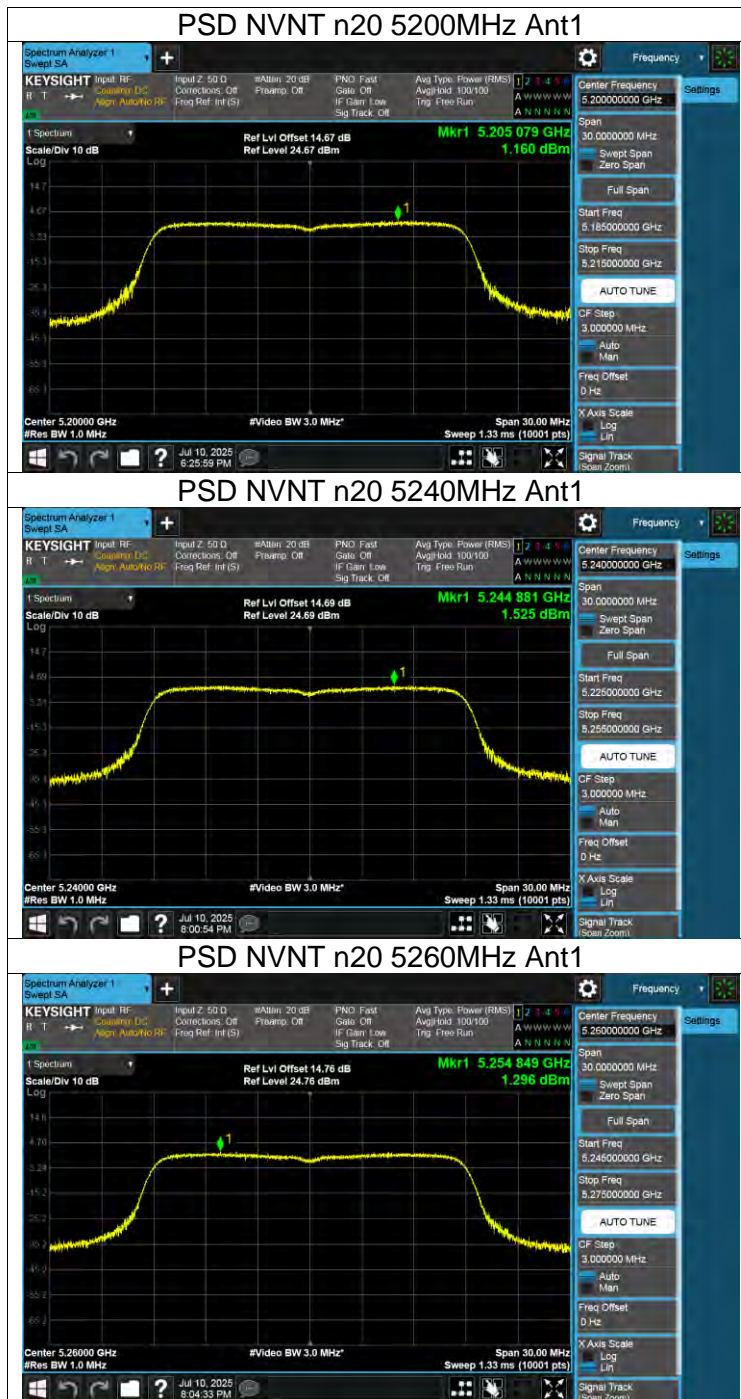


### PSD NVNT a 5825MHz Ant1

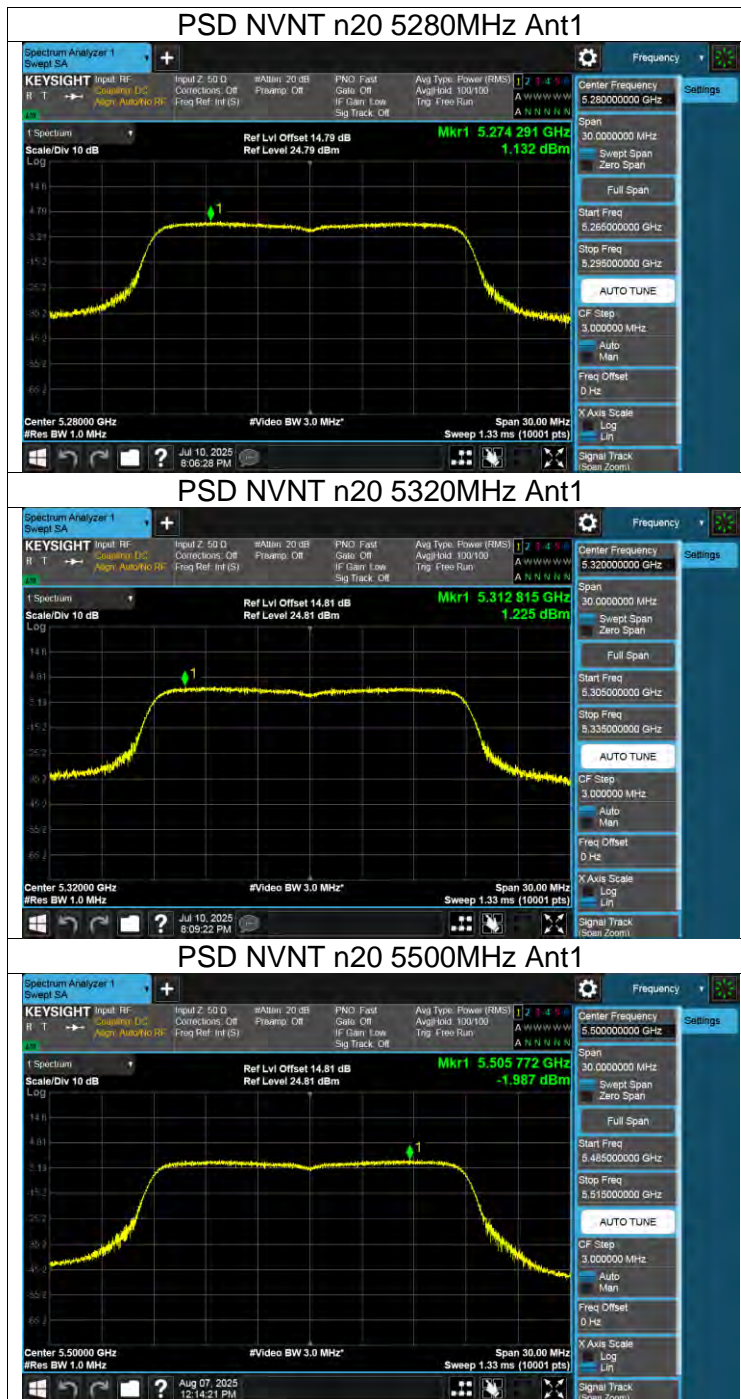


### PSD NVNT n20 5180MHz Ant1

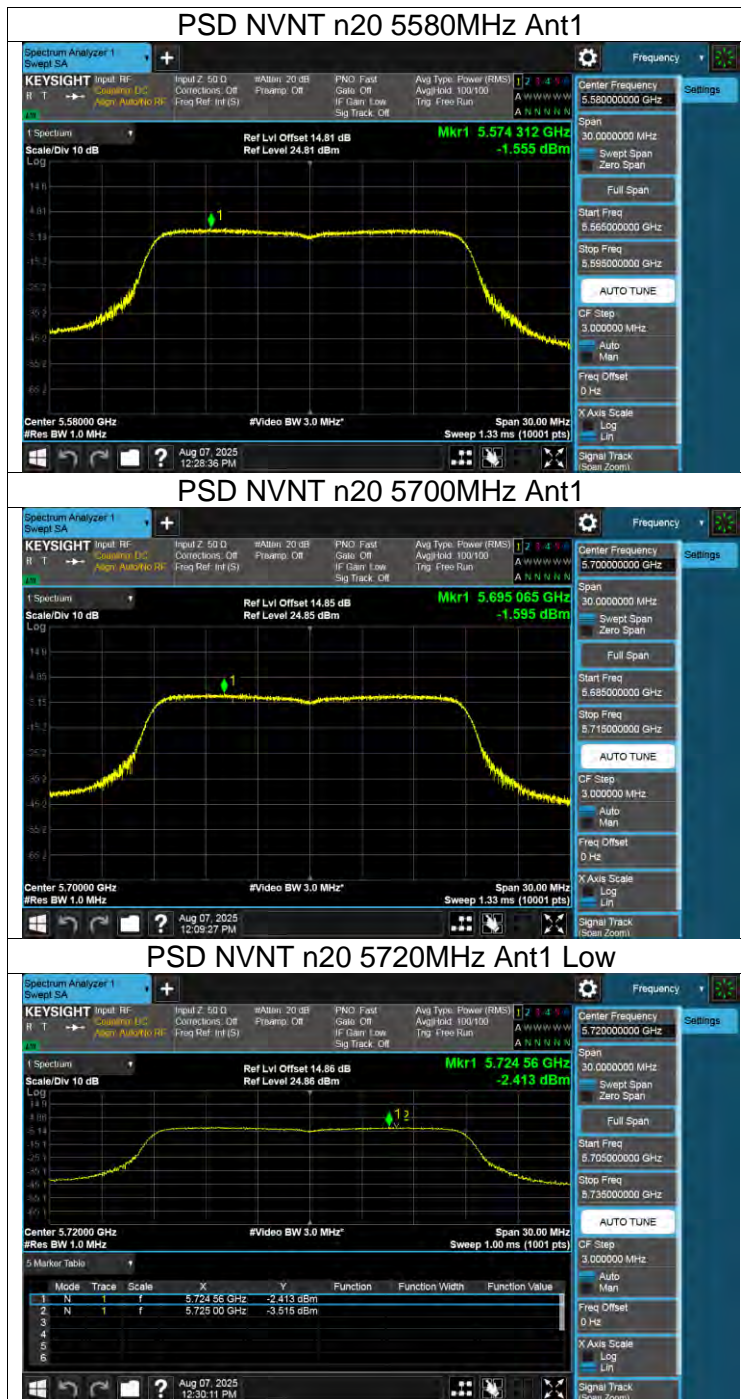


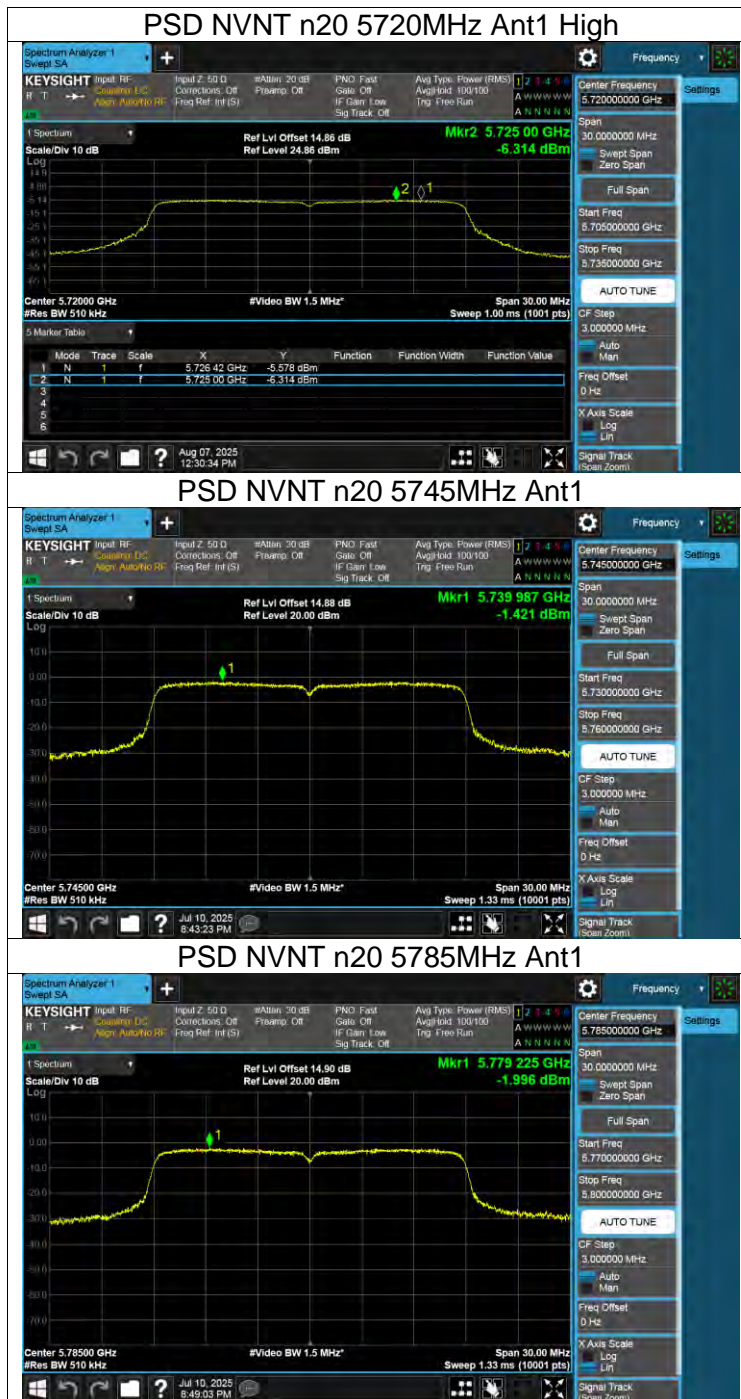


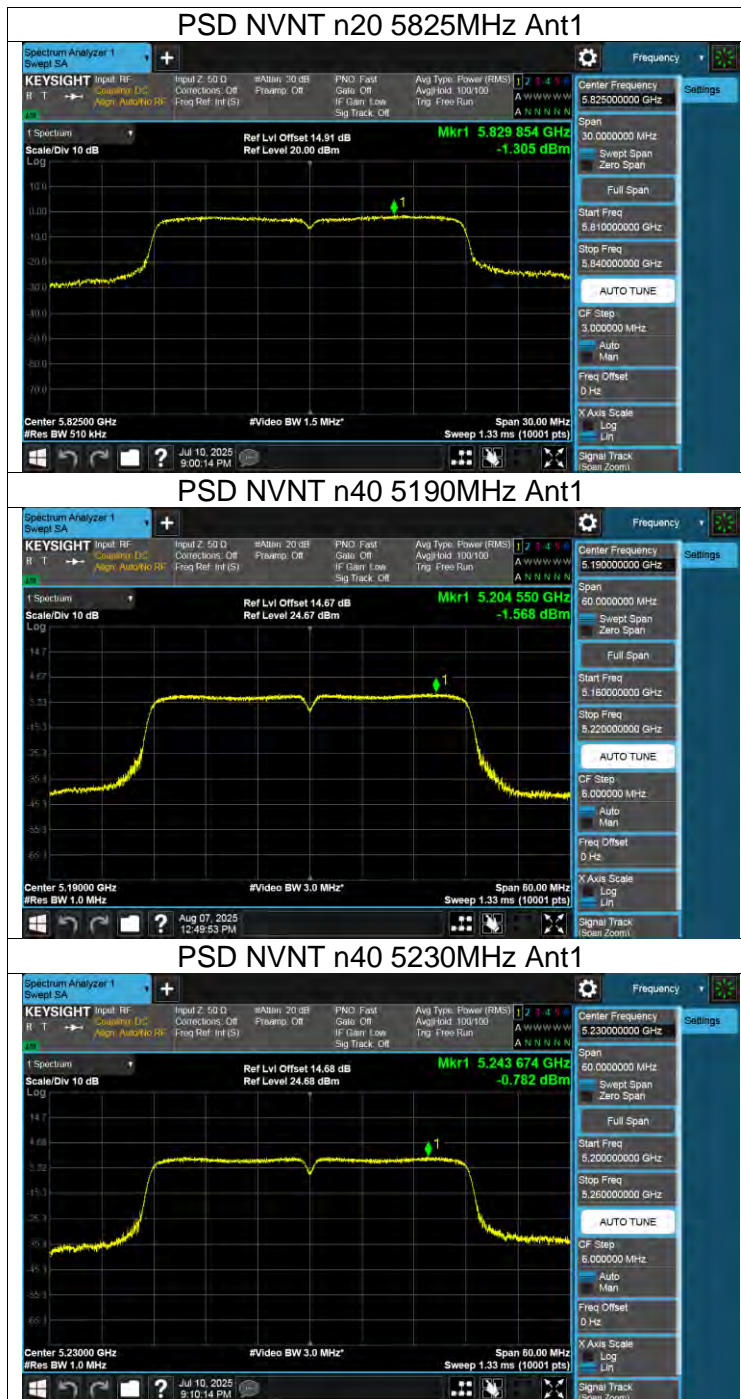




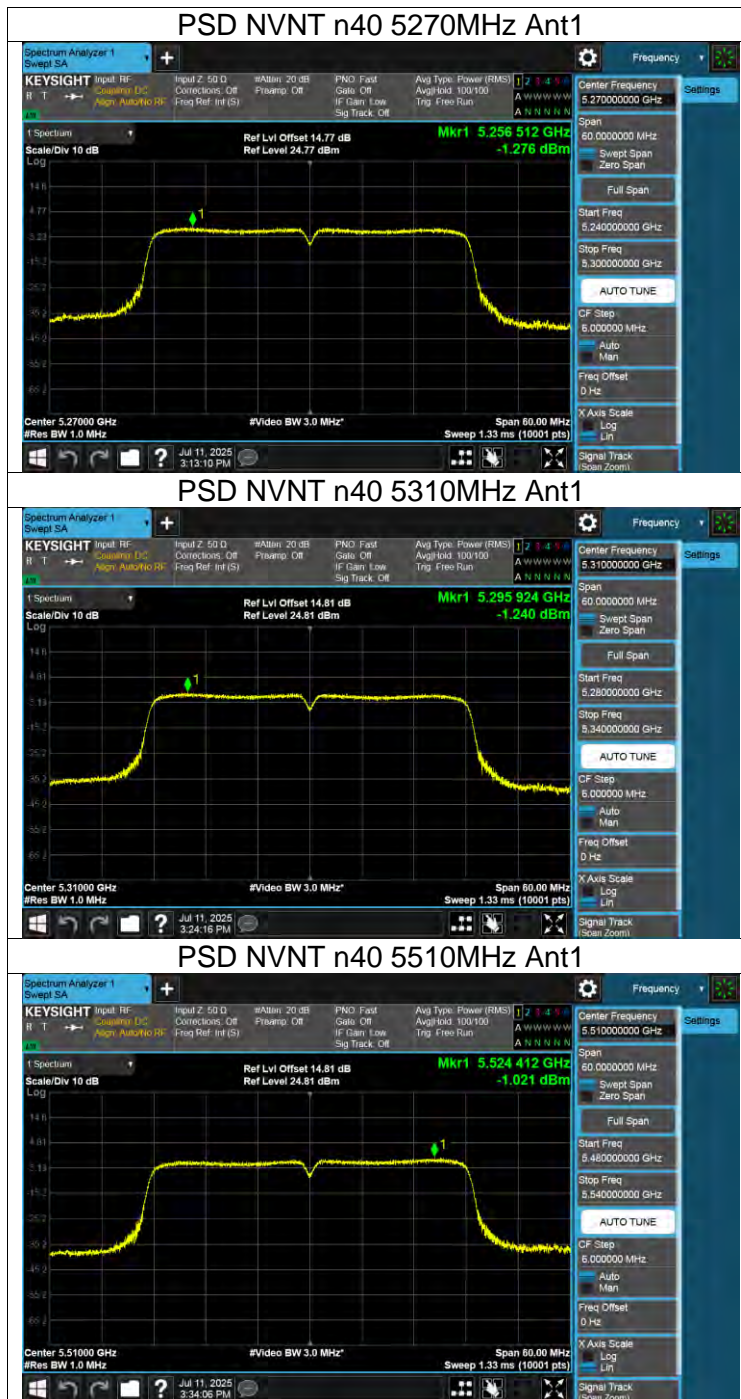




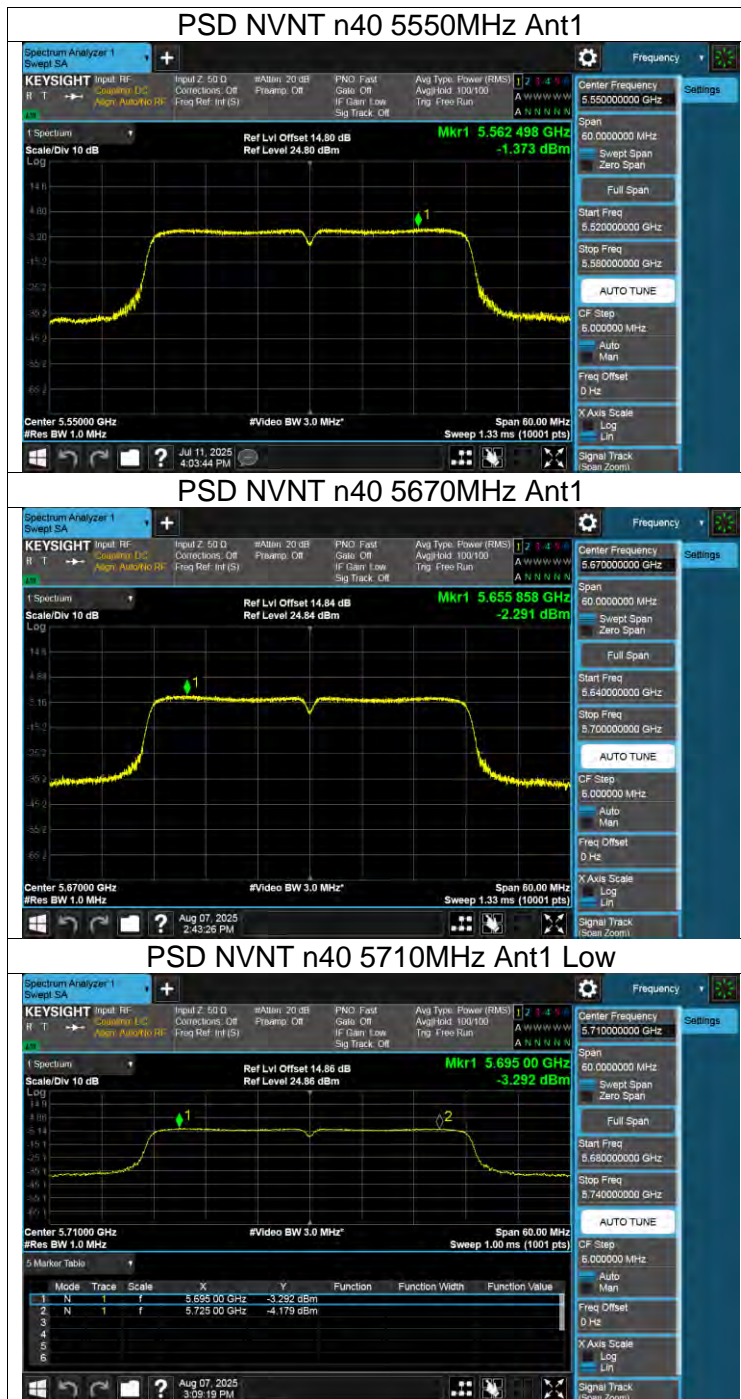


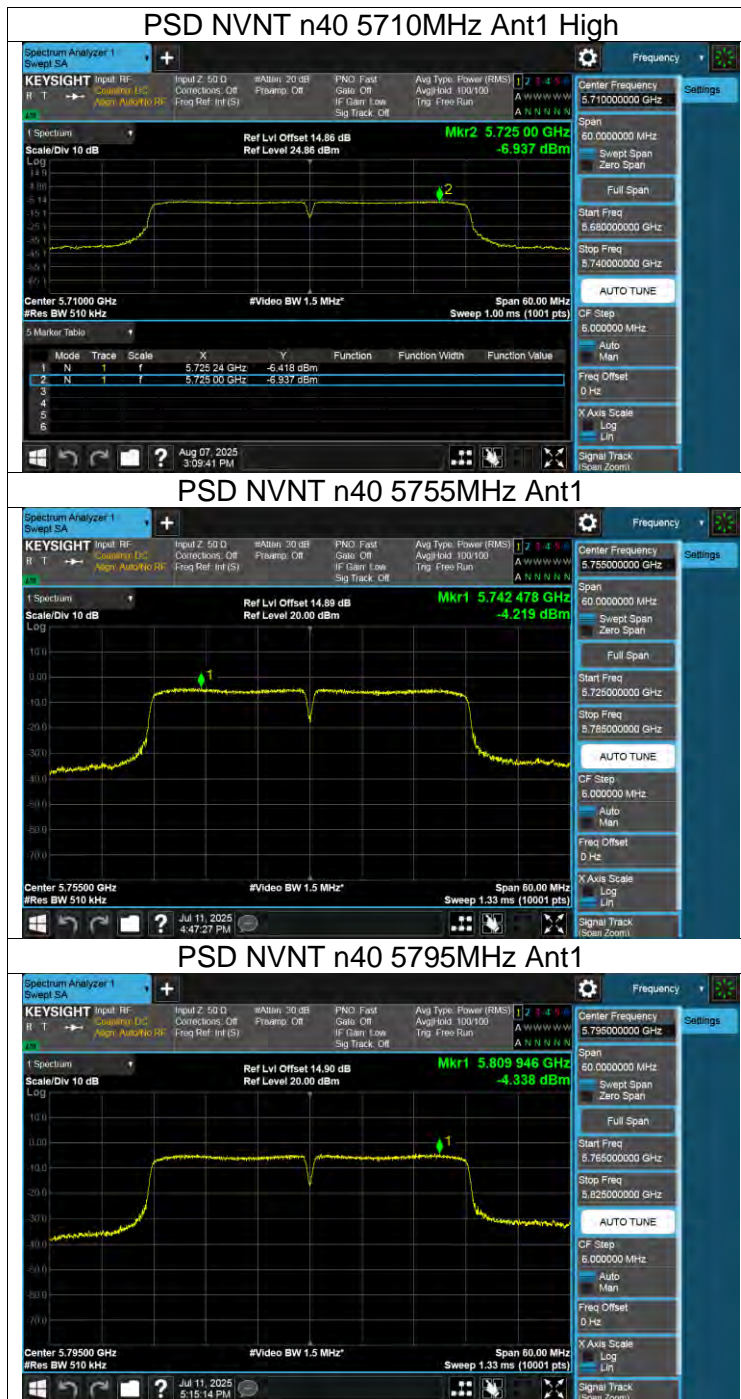


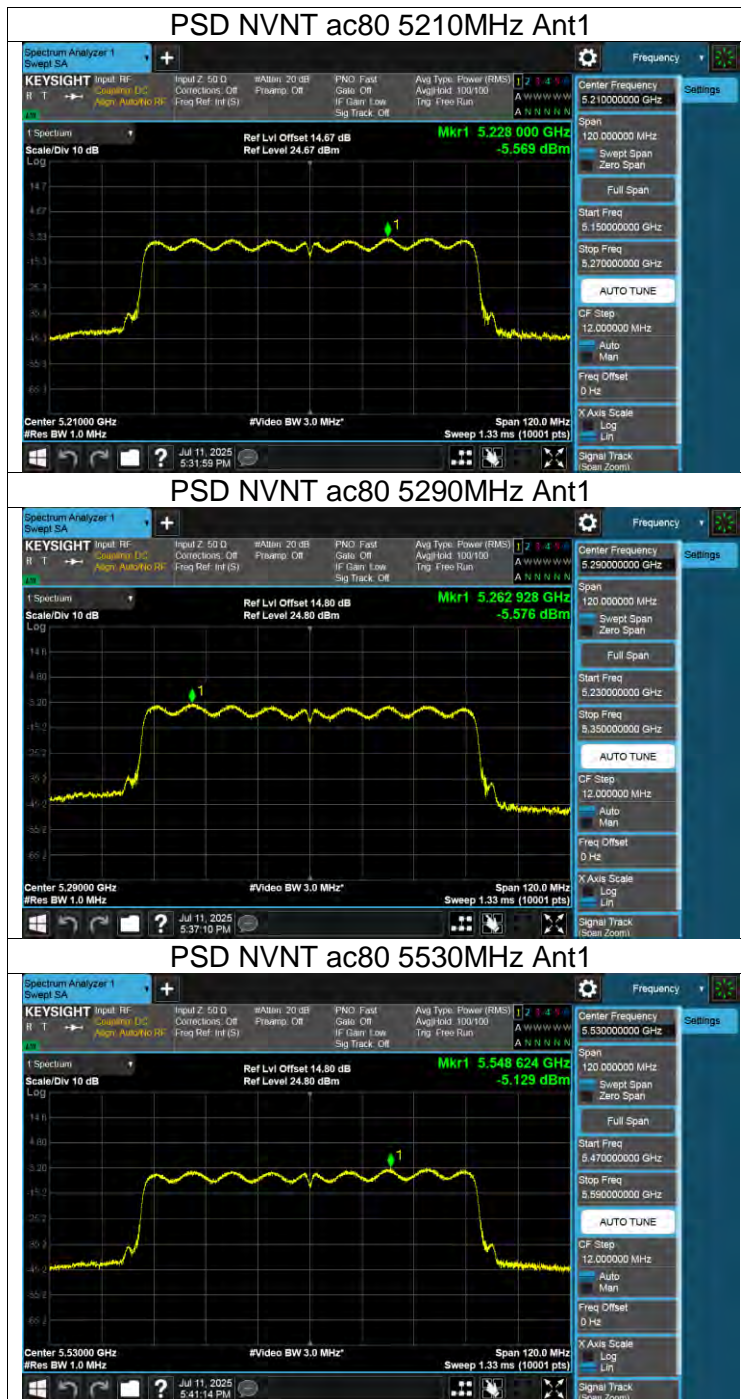




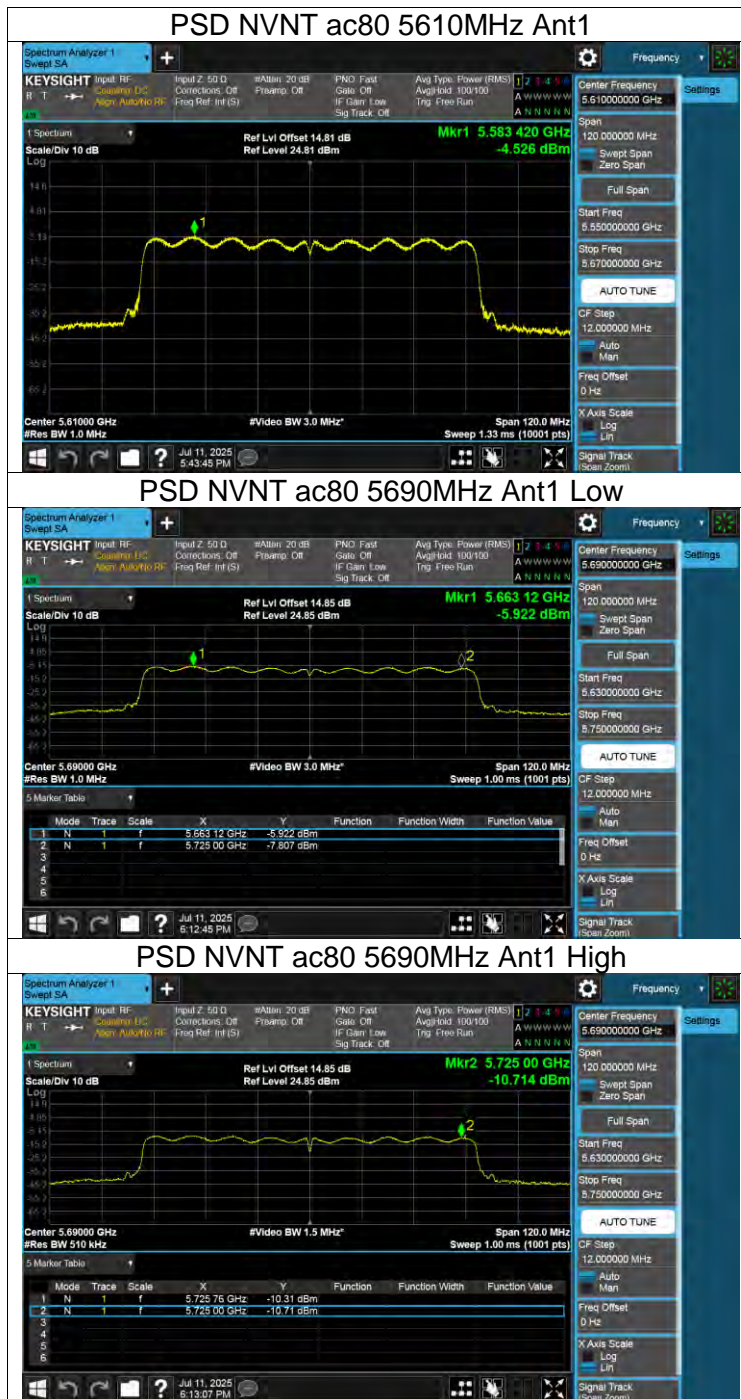




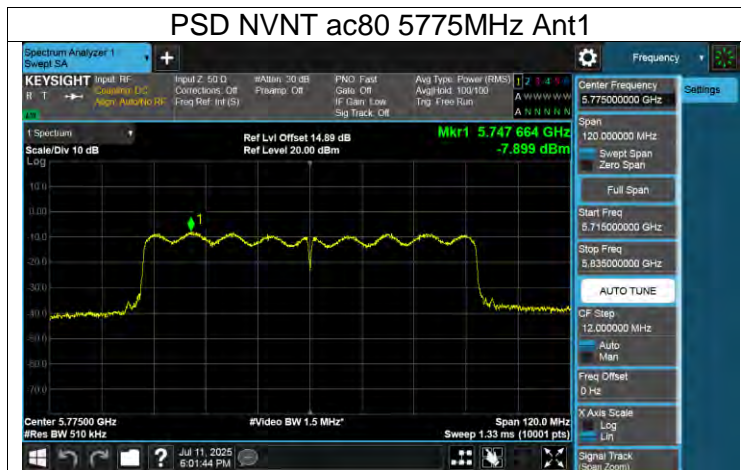










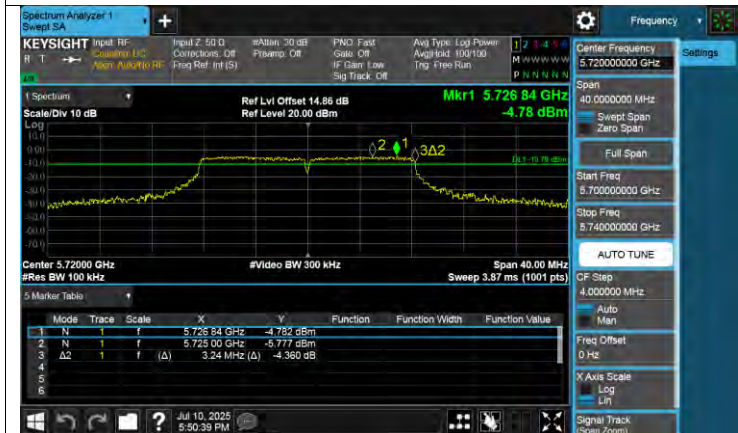


## Appendix F:-6dB Bandwidth

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5720	Ant1	3.24	$\geq 0.5$	Pass
a	5745	Ant1	16.509	$\geq 0.5$	Pass
a	5785	Ant1	16.534	$\geq 0.5$	Pass
a	5825	Ant1	16.482	$\geq 0.5$	Pass
n20	5720	Ant1	3.84	$\geq 0.5$	Pass
n20	5745	Ant1	17.625	$\geq 0.5$	Pass
n20	5785	Ant1	17.651	$\geq 0.5$	Pass
n20	5825	Ant1	17.684	$\geq 0.5$	Pass
n40	5710	Ant1	3.24	$\geq 0.5$	Pass
n40	5755	Ant1	36.387	$\geq 0.5$	Pass
n40	5795	Ant1	36.418	$\geq 0.5$	Pass
ac80	5690	Ant1	3.08	$\geq 0.5$	Pass
ac80	5775	Ant1	76.336	$\geq 0.5$	Pass

### Test Graphs

#### -6dB Bandwidth NVNT a 5720MHz Ant1

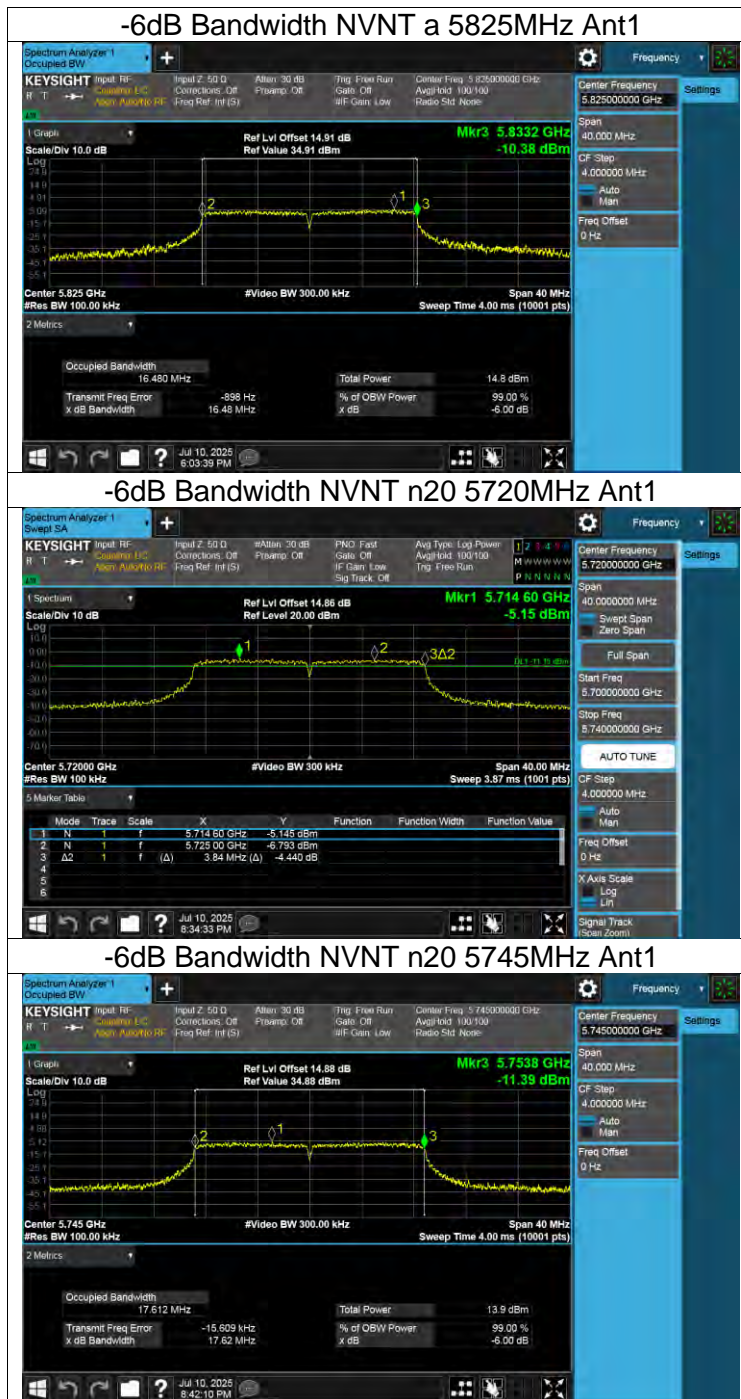


#### -6dB Bandwidth NVNT a 5745MHz Ant1

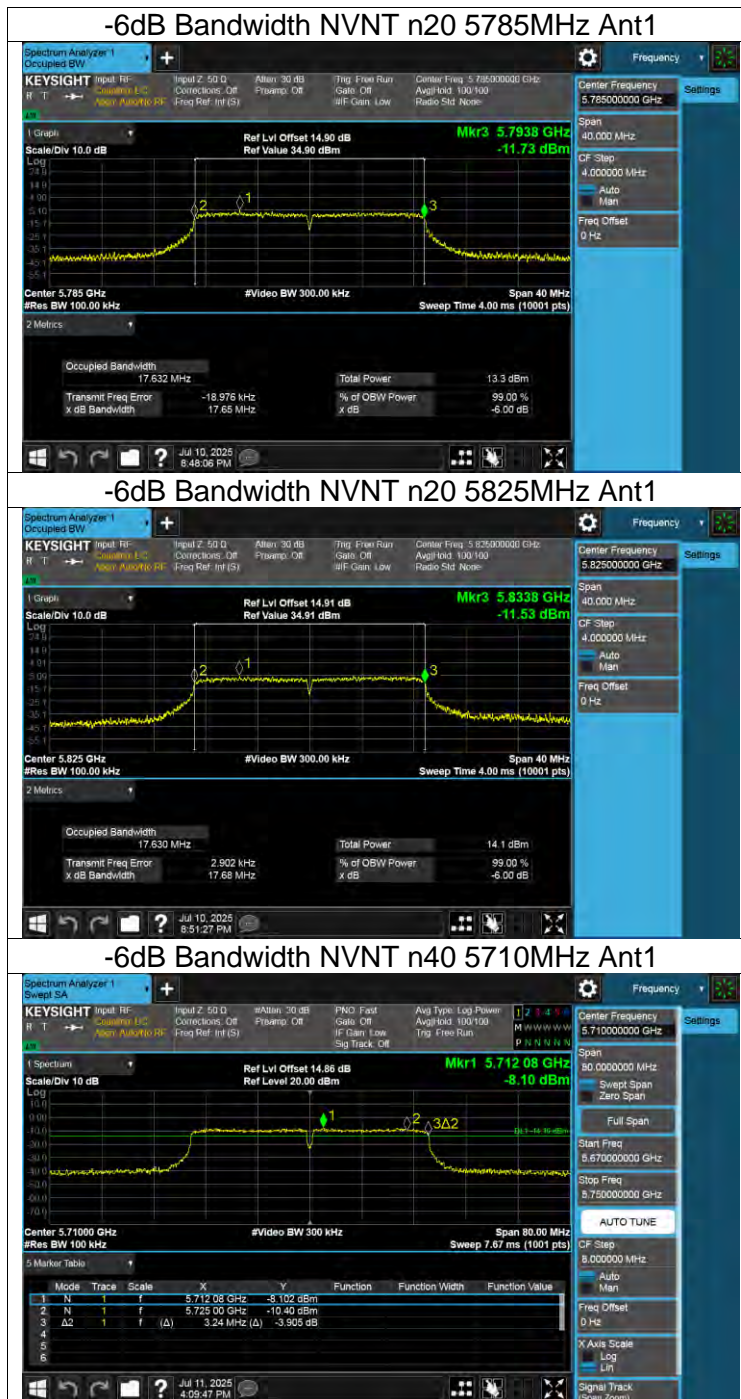


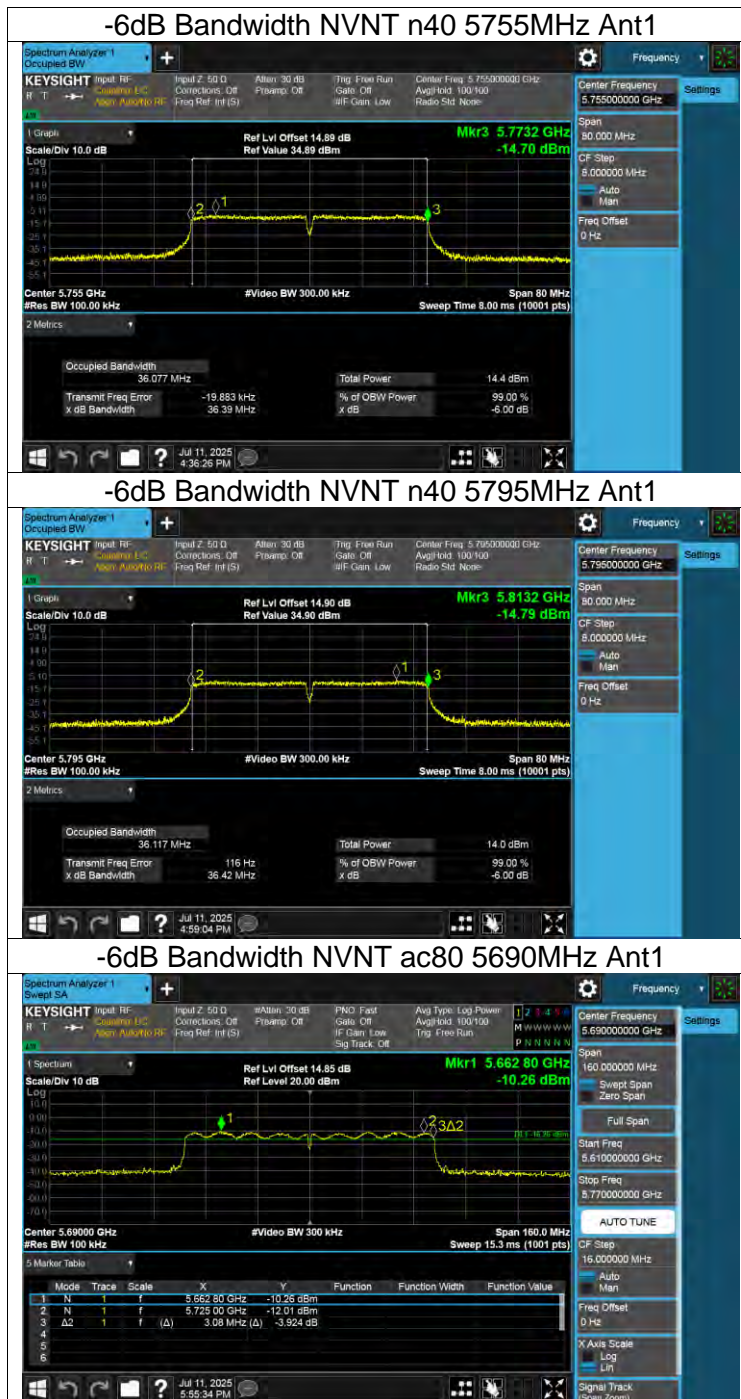
#### -6dB Bandwidth NVNT a 5785MHz Ant1

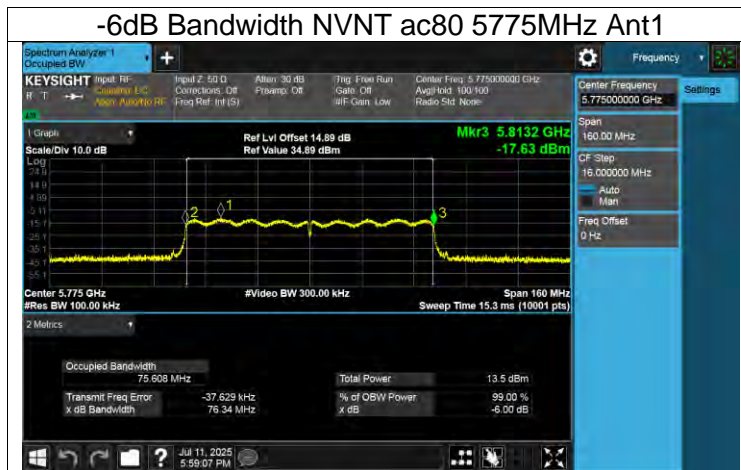














## Appendix G: Frequency Stability

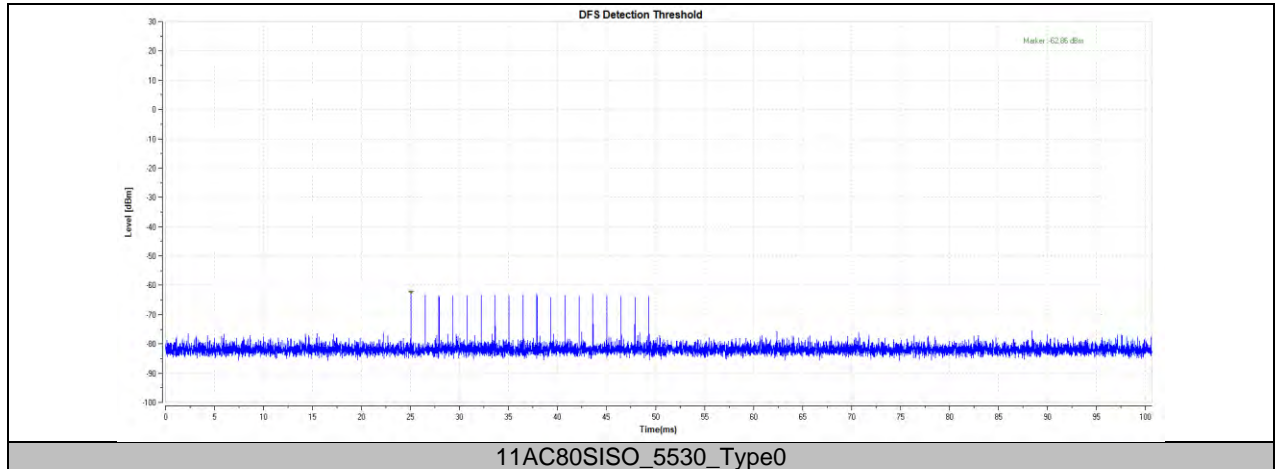
Frequency Error vs. Voltage									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
TN	VL	5180.0066	1.27	5179.9998	-0.04	5180.0063	1.22	5179.9974	-0.49
TN	VN	5179.9784	-4.17	5180.0001	0.02	5179.9839	-3.10	5179.9909	-1.76
TN	VH	5179.9813	-3.61	5180.0022	0.43	5179.9909	-1.75	5180.0157	3.02
Frequency Error vs. Temperature									
802.11a:5180MHz									
Temp.	Volt.	0 Minute		2 Minute		5 Minute		10 Minute	
		Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)	Freq.Error (MHz)	Tolerance (ppm)
50	VN	5180.0137	2.65	5179.9929	-1.37	5180.0148	2.85	5180.0123	2.37
40	VN	5180.0089	1.72	5180.0079	1.52	5179.9924	-1.46	5180.0230	4.44
30	VN	5179.9874	-2.44	5180.0097	1.88	5180.0110	2.12	5179.9767	-4.49
20	VN	5180.0015	0.30	5179.9883	-2.25	5180.0232	4.48	5180.0090	1.73
10	VN	5180.0188	3.64	5179.9942	-1.13	5180.0116	2.25	5180.0092	1.78
0	VN	5179.9854	-2.81	5180.0046	0.88	5180.0202	3.90	5180.0217	4.19

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

## Appendix H: DFS Detection Thresholds

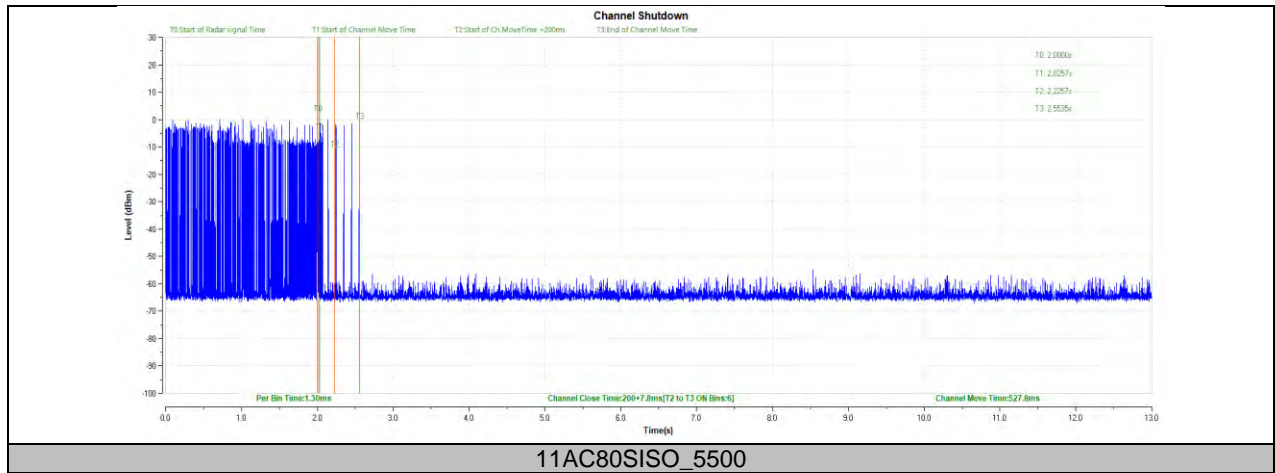
Test Mode	Frequency[MHz]	Radar Type	Result	Limit[dbm]	Verdict
11AC80SISO	5530	Type0	-62.86	-62.00	PASS



## Appendix I: Channel Move Time and Channel Closing Transmission Time

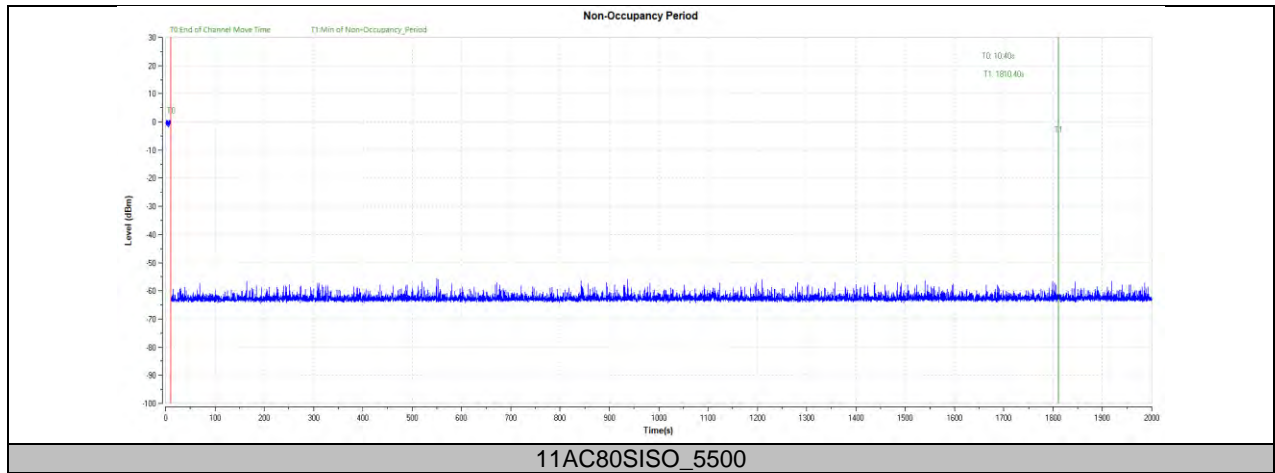
Test Mode	Frequency[MHz]	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11AC80SISO	5530	200+7.8	200+60	527.8	10000	PASS





## Appendix J: Non-Occupancy Period

Test Mode	Channel	Result	Limit[s]	Verdict
11AC80SISO	5530	see test graph	≥1800	PASS







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## END OF REPORT