



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: projector

Test Model: Sun700

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	22.265	---	Pass
NVNT	a	5200	Ant2	23.387	---	Pass
NVNT	a	5240	Ant2	24.233	---	Pass
NVNT	n20	5180	Ant2	25.605	---	Pass
NVNT	n20	5200	Ant2	25.489	---	Pass
NVNT	n20	5240	Ant2	23.671	---	Pass
NVNT	n40	5190	Ant2	39.485	---	Pass
NVNT	n40	5230	Ant2	40.016	---	Pass
NVNT	ac20	5180	Ant2	28.876	---	Pass
NVNT	ac20	5200	Ant2	25.511	---	Pass
NVNT	ac20	5240	Ant2	26.218	---	Pass
NVNT	ac40	5190	Ant2	53.203	---	Pass
NVNT	ac40	5230	Ant2	53.421	---	Pass
NVNT	ax20	5180	Ant2	29.125	---	Pass
NVNT	ax20	5200	Ant2	28.114	---	Pass
NVNT	ax20	5240	Ant2	27.799	---	Pass
NVNT	ax40	5190	Ant2	51.297	---	Pass
NVNT	ax40	5230	Ant2	51.678	---	Pass

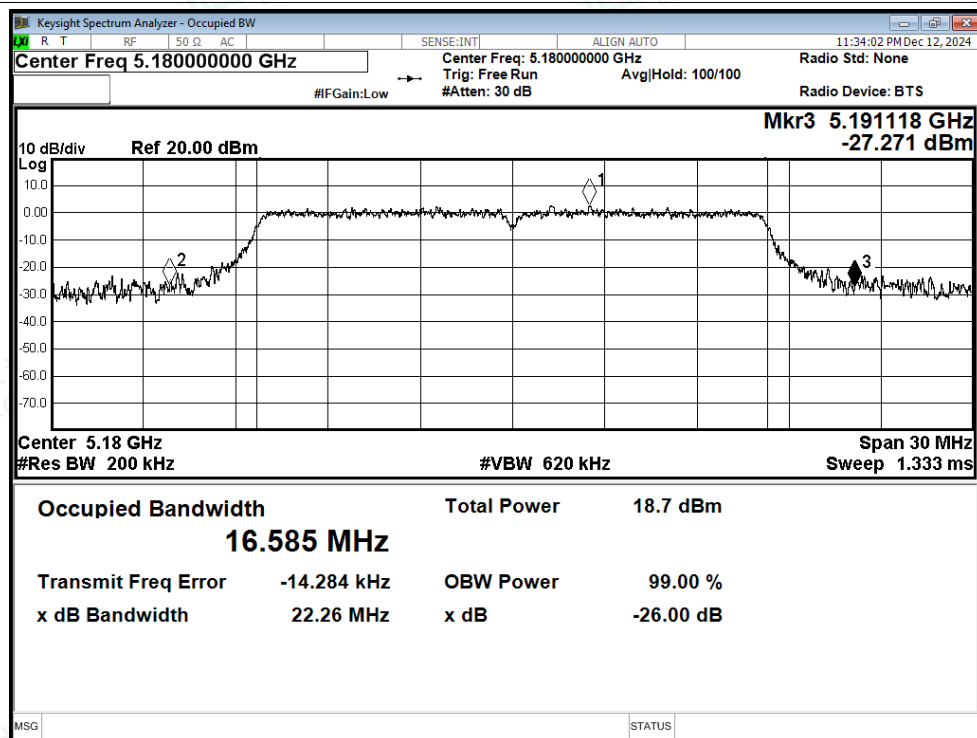


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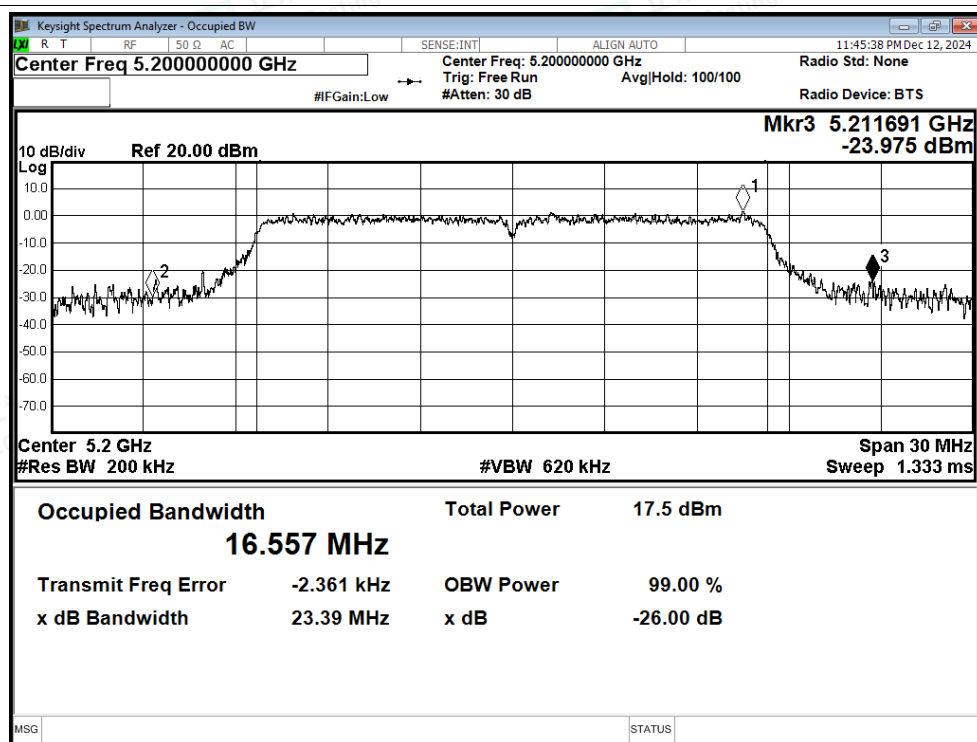


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2

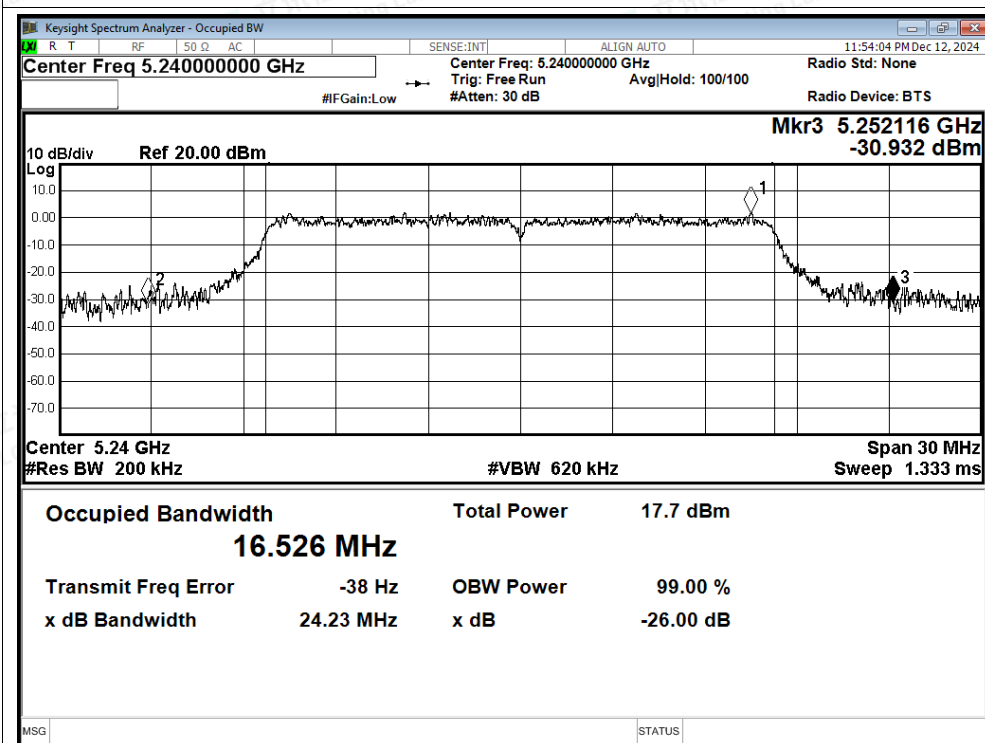


-26dB Bandwidth NVNT a 5200MHz Ant2

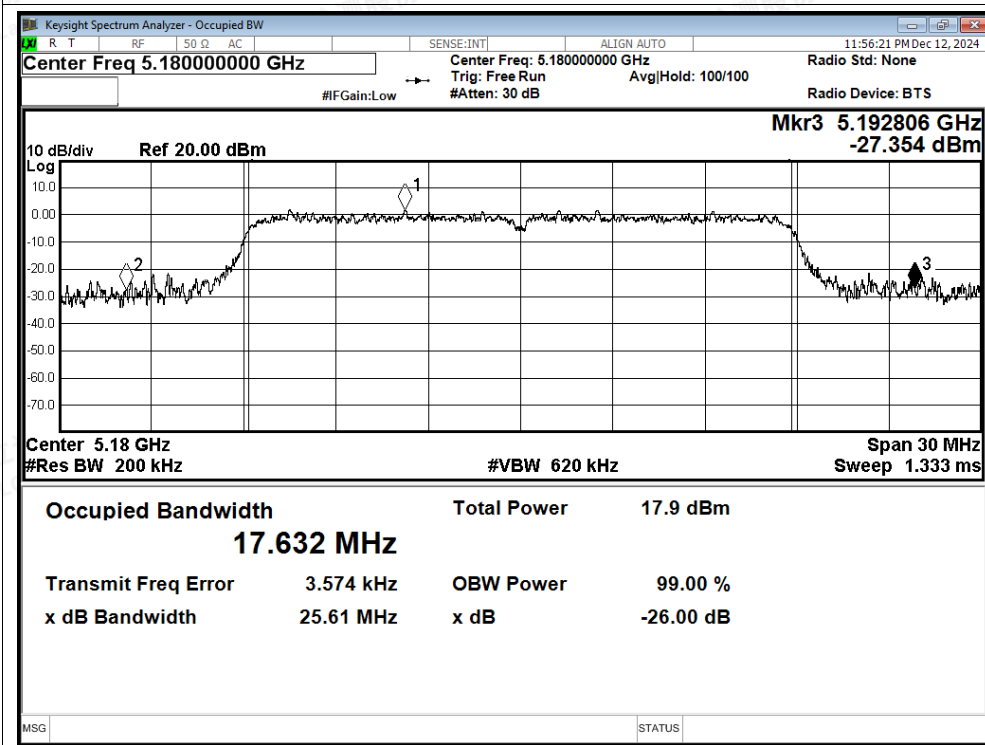


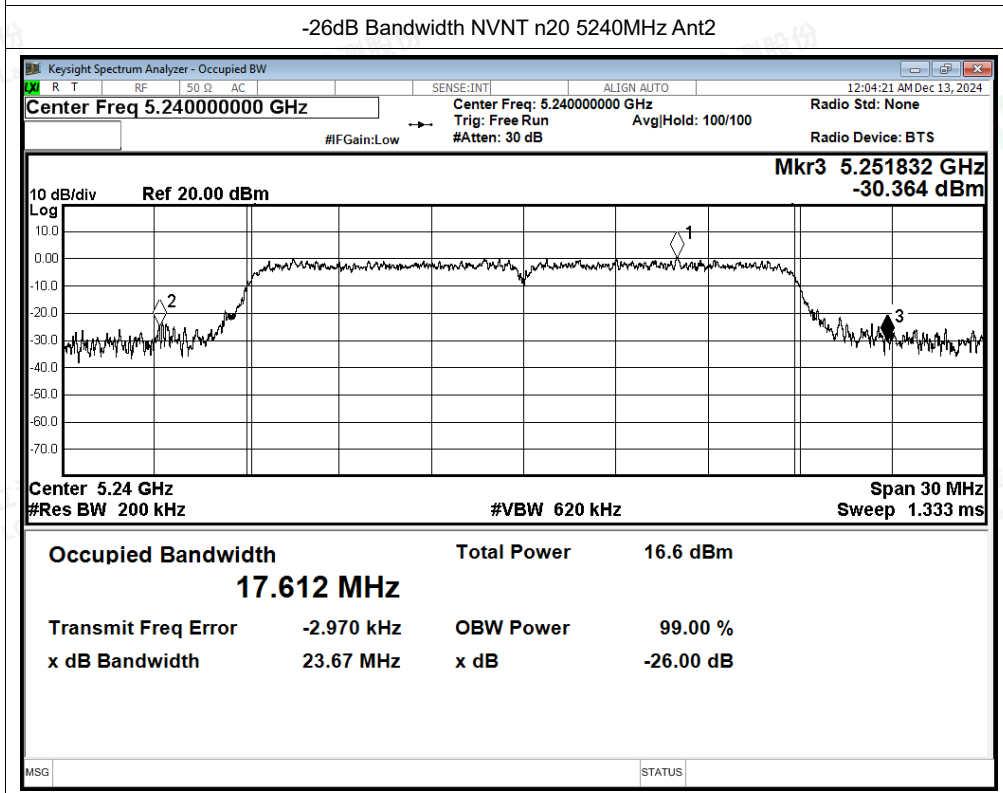
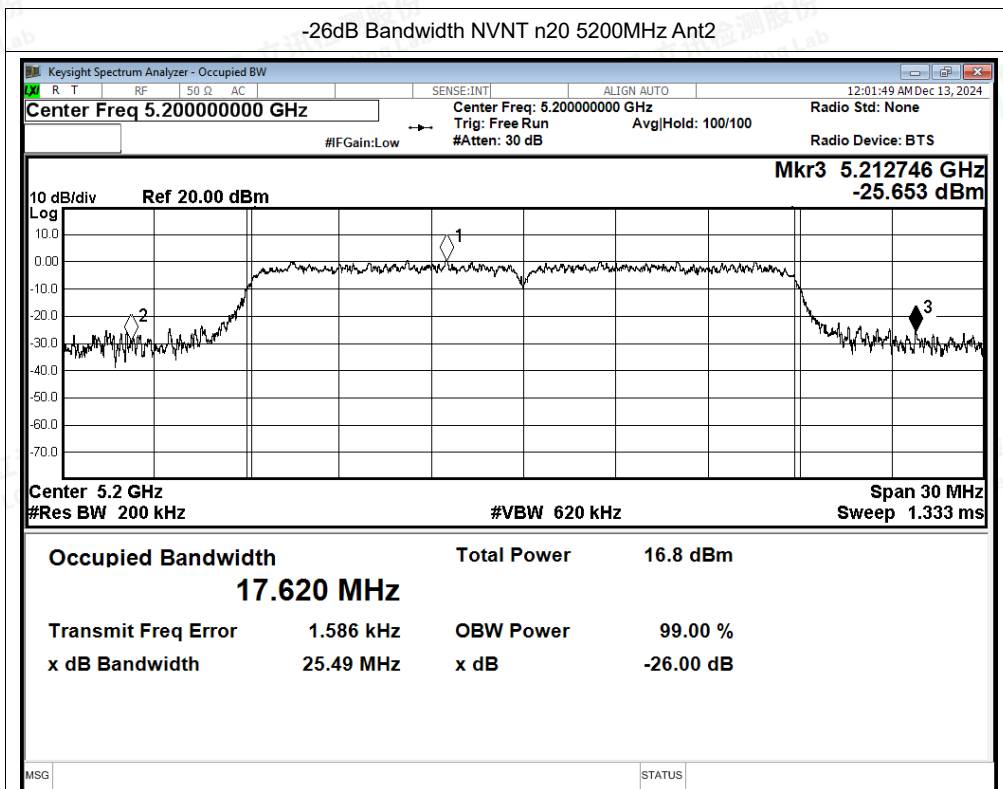


-26dB Bandwidth NVNT a 5240MHz Ant2



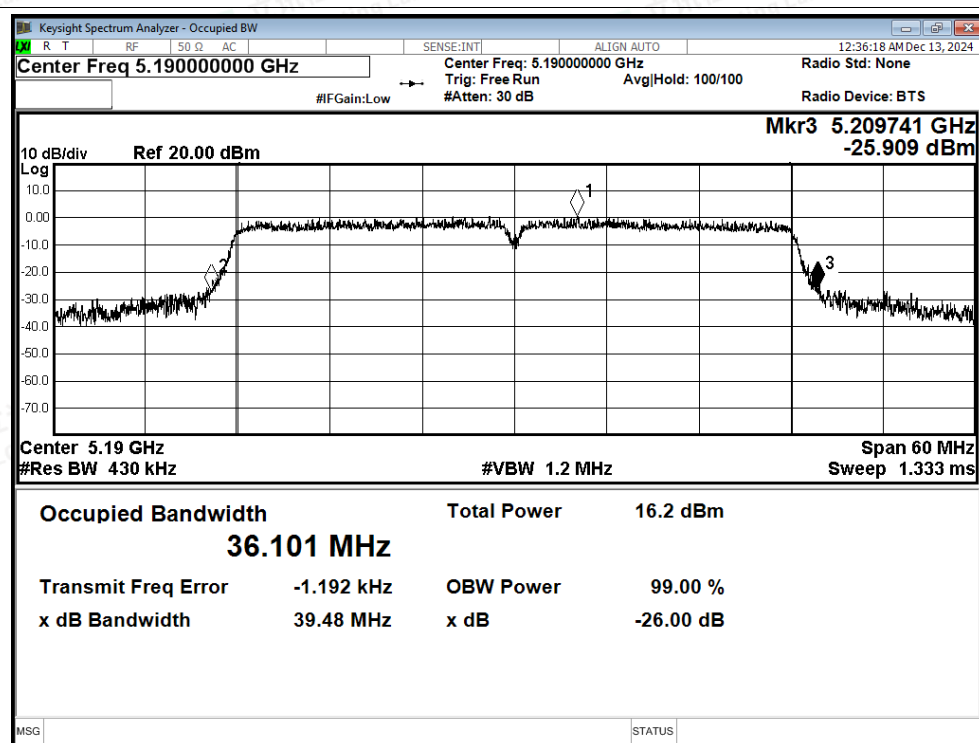
-26dB Bandwidth NVNT n20 5180MHz Ant2



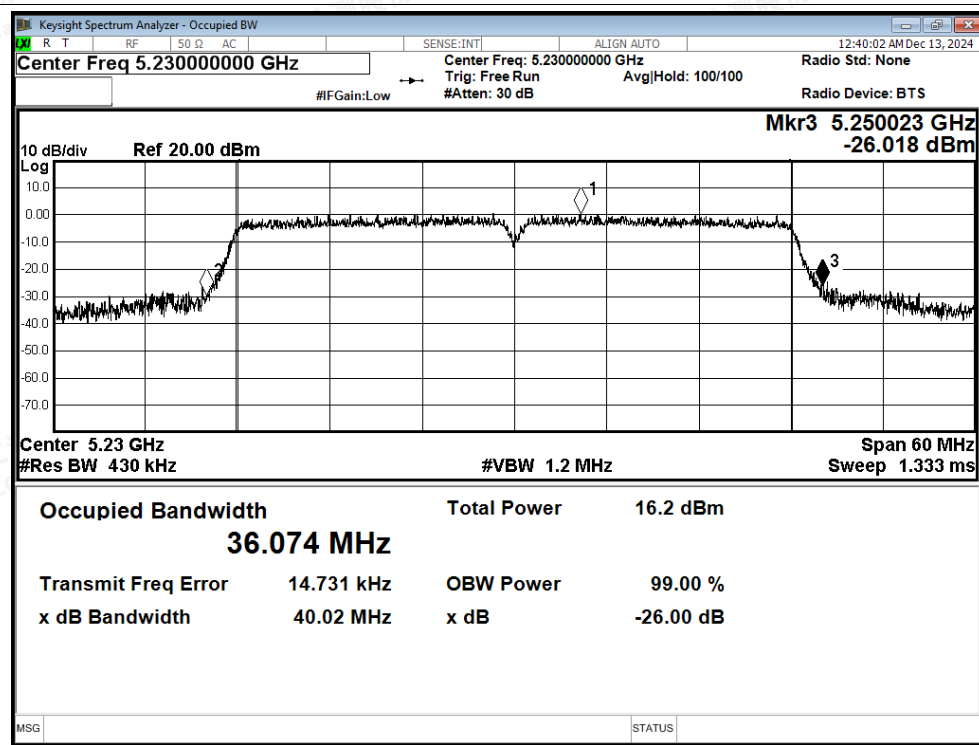


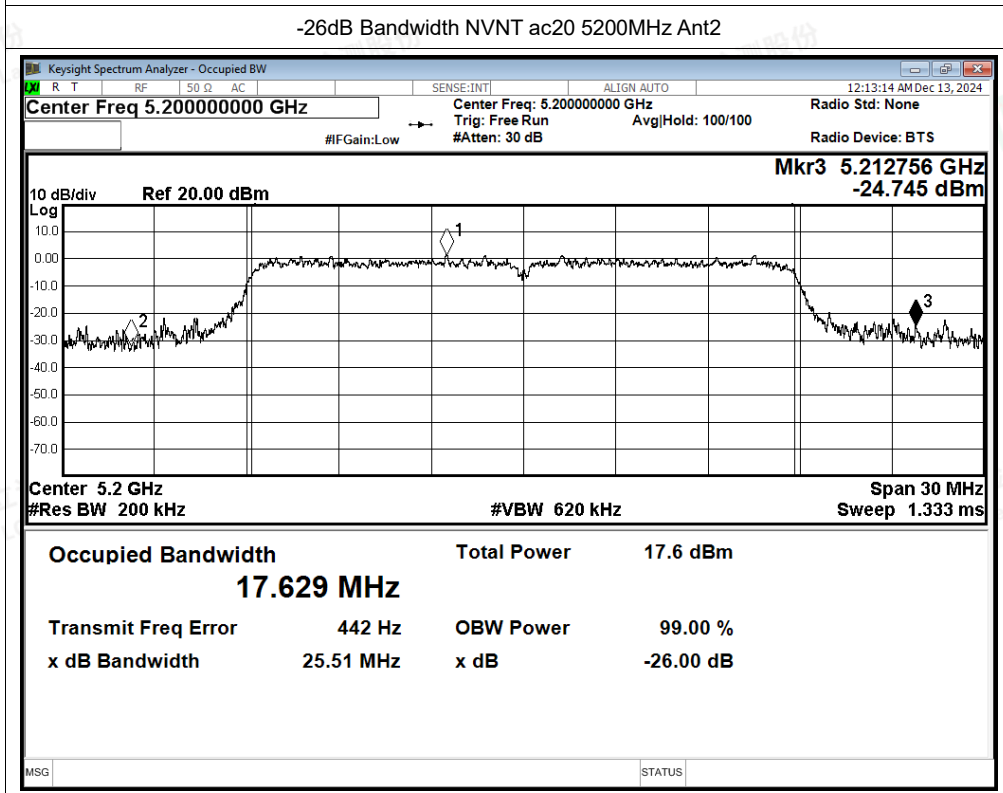
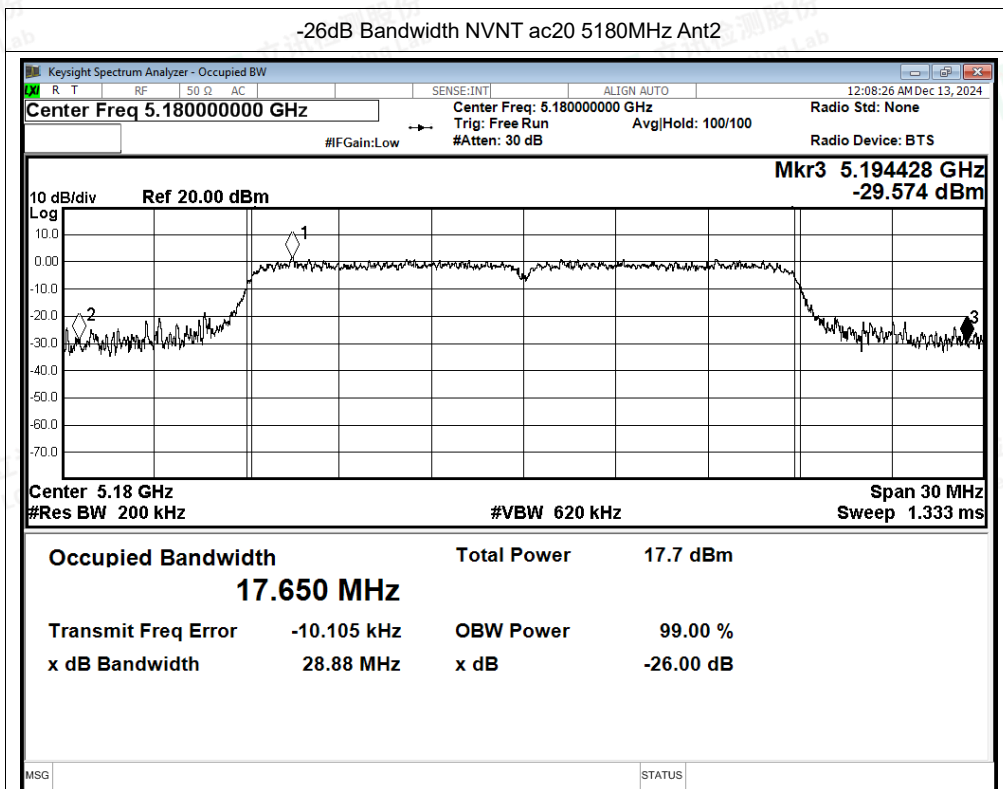


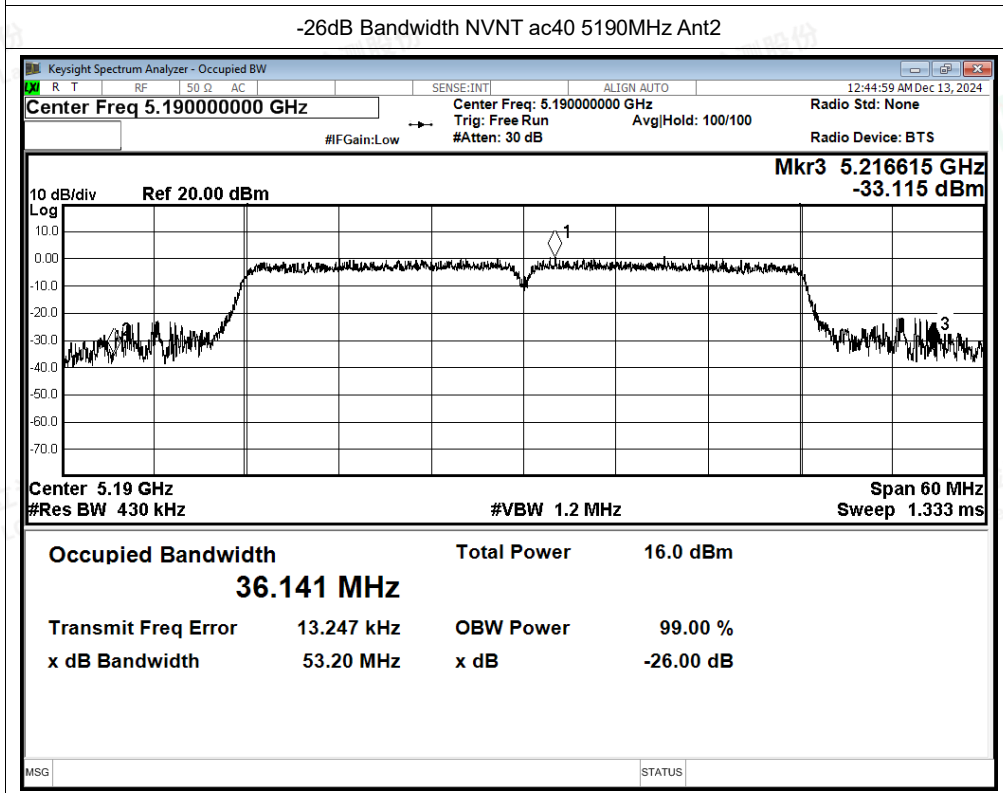
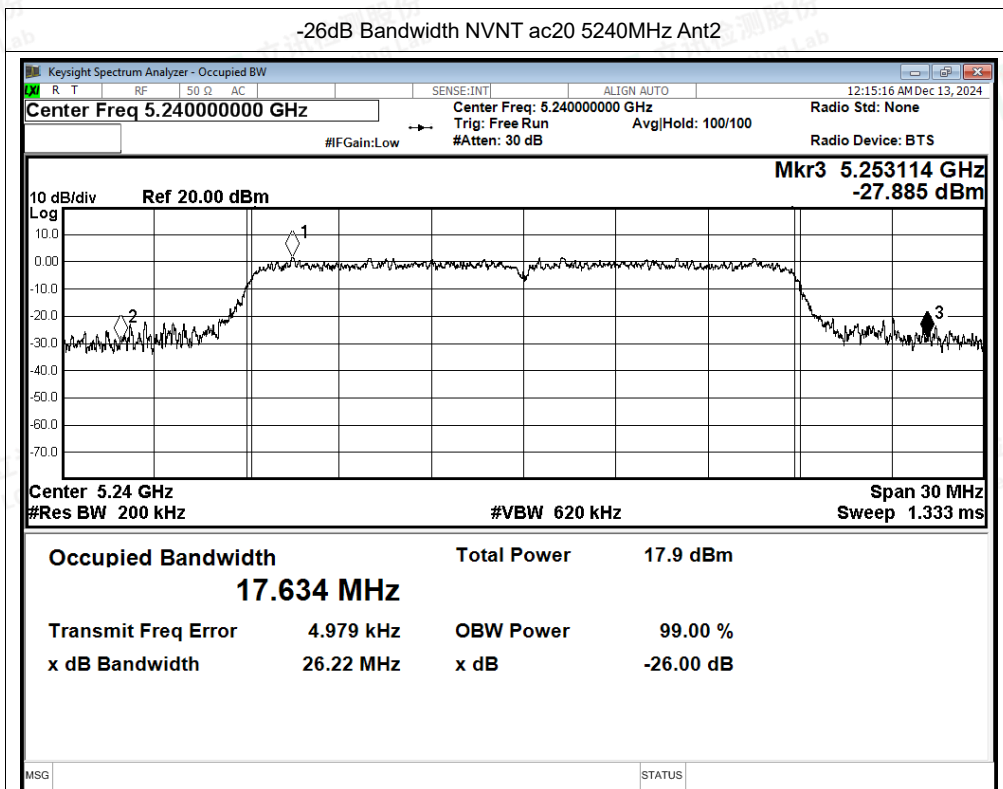
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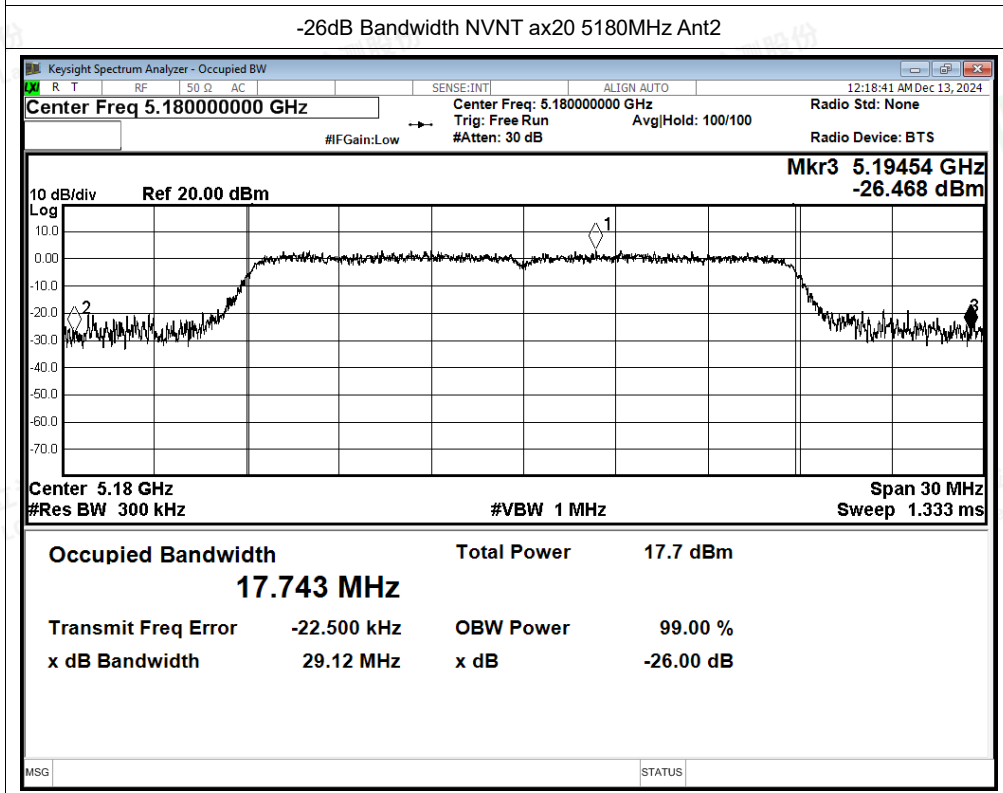
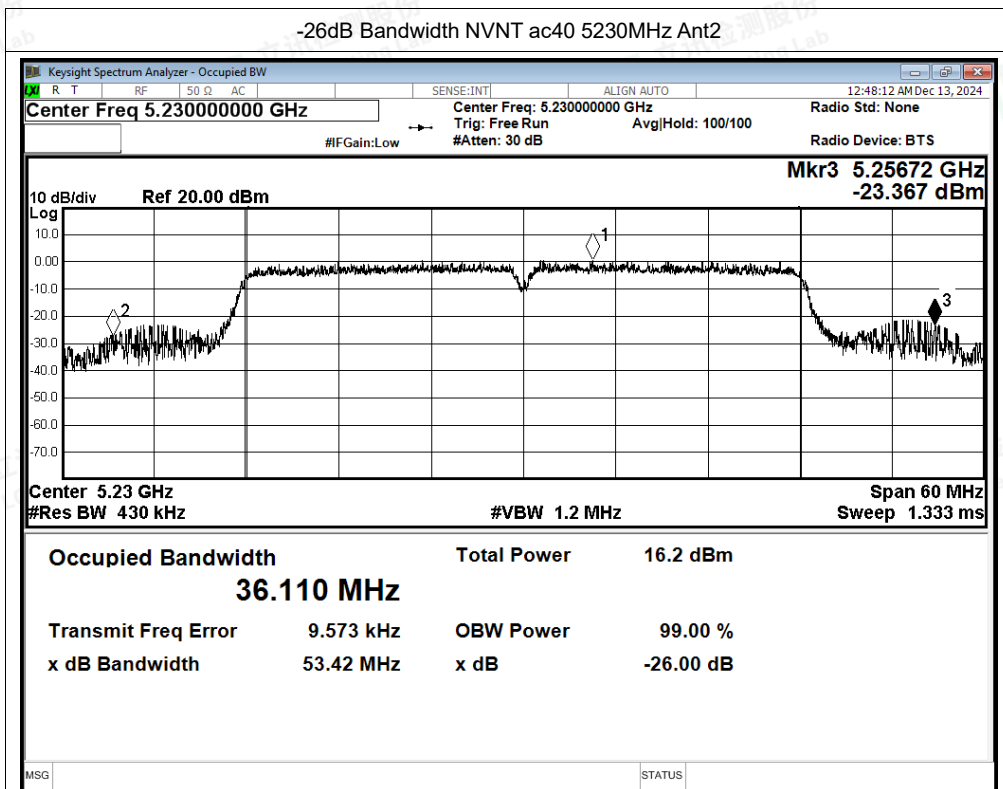


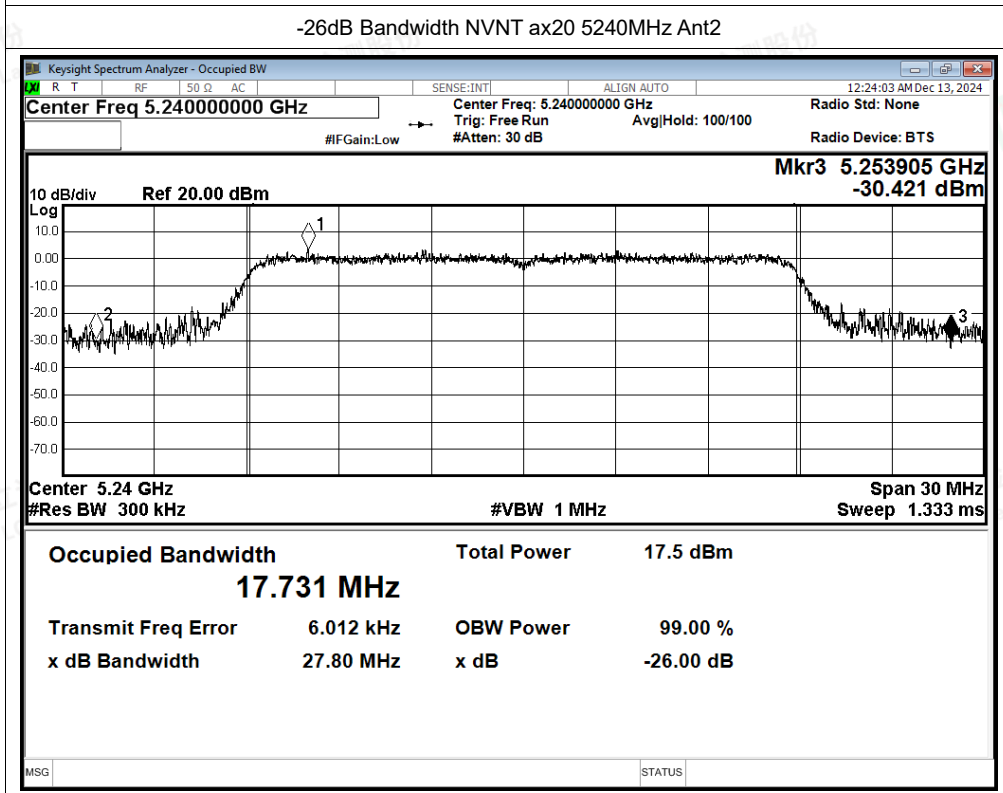
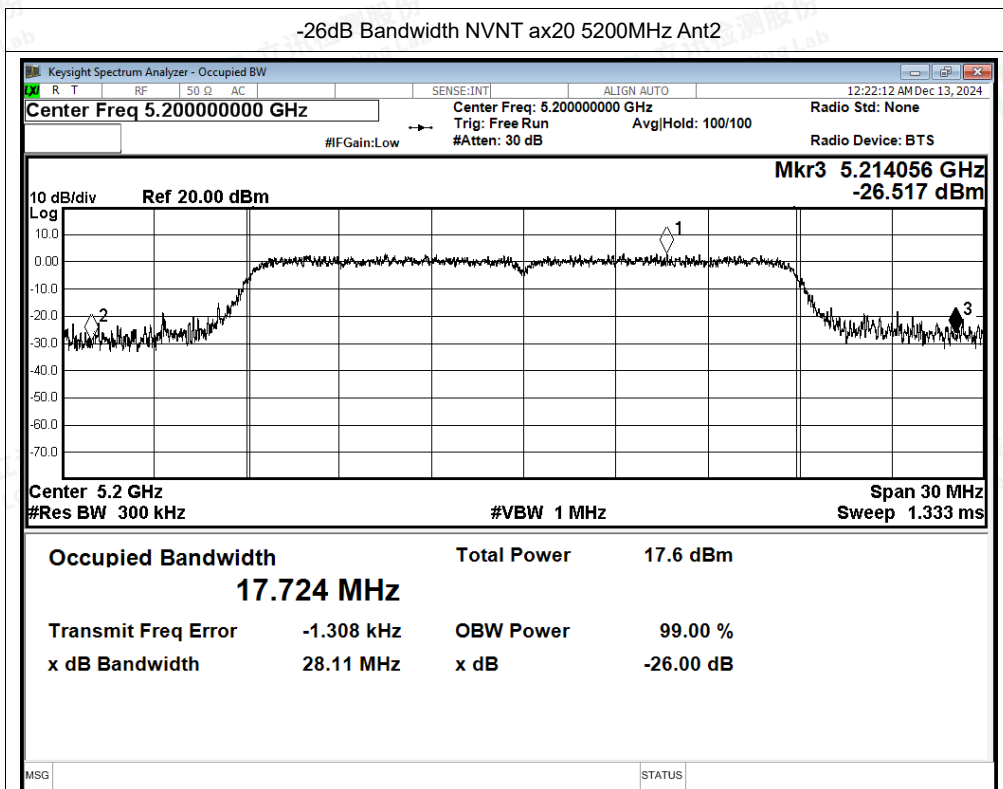
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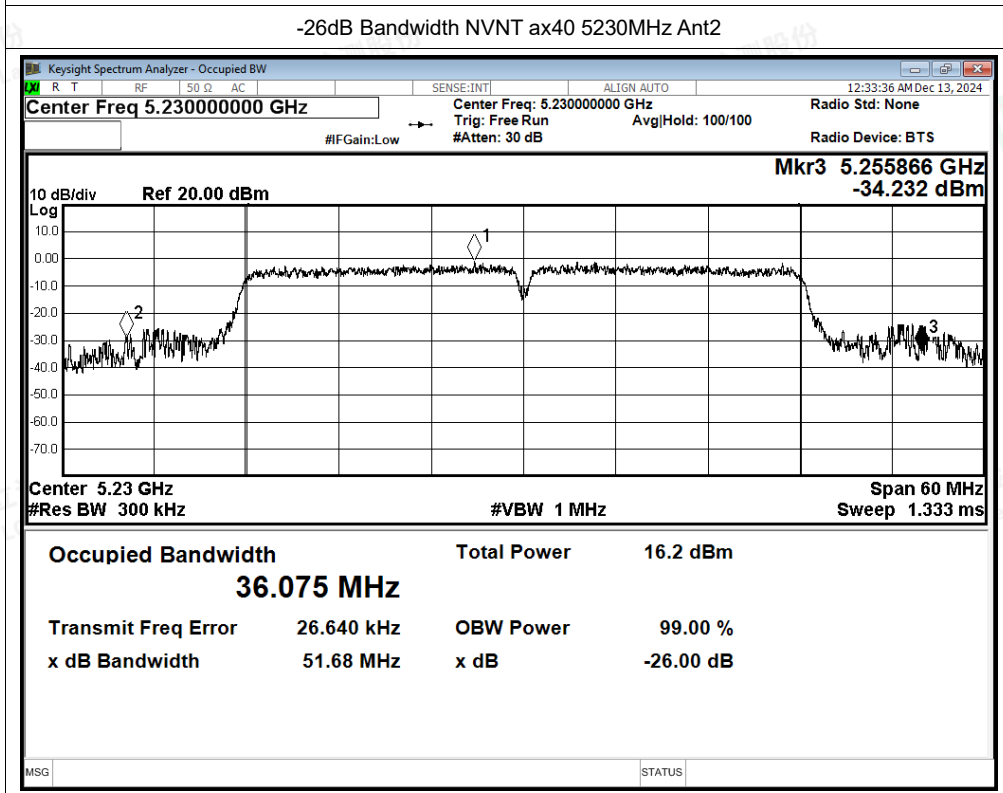
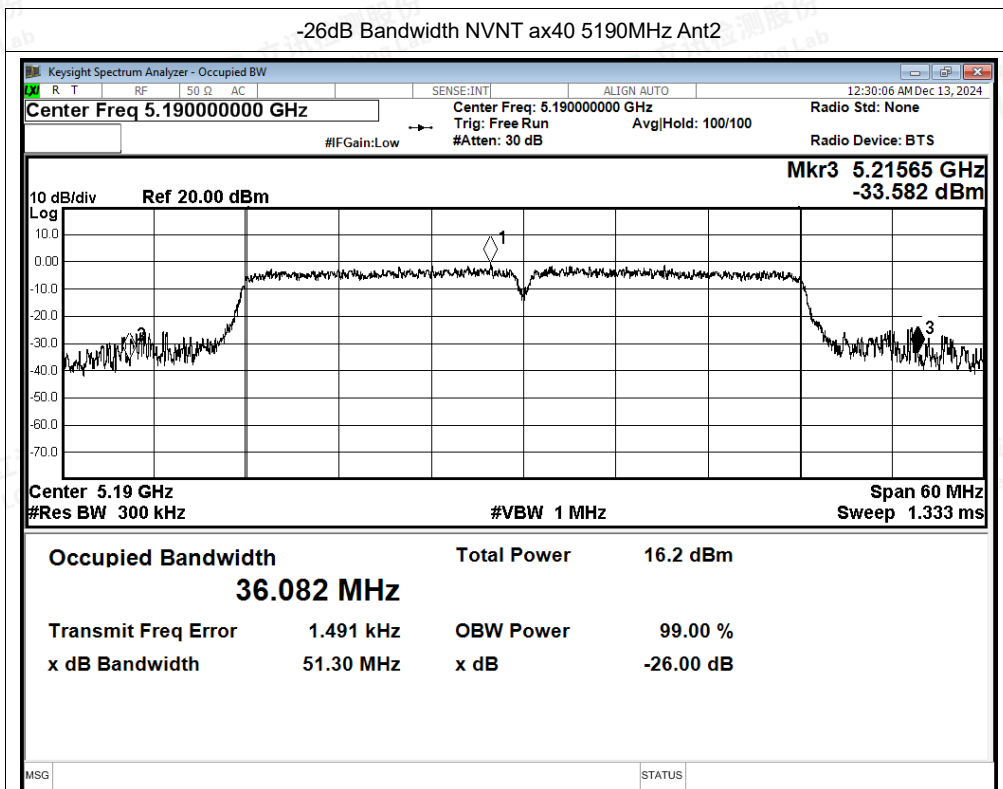














D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	12.57	0.24	12.81	23.55	Pass
NVNT	a	5200	Ant2	11.76	0.24	12	23.55	Pass
NVNT	a	5240	Ant2	11.54	0.24	11.78	23.55	Pass
NVNT	n20	5180	Ant2	11.69	0.28	11.97	23.55	Pass
NVNT	n20	5200	Ant2	10.89	0.28	11.17	23.55	Pass
NVNT	n20	5240	Ant2	10.72	0.28	11	23.55	Pass
NVNT	n40	5190	Ant2	10.1	0.55	10.65	23.55	Pass
NVNT	n40	5230	Ant2	10.17	0.55	10.72	23.55	Pass
NVNT	ac20	5180	Ant2	11.79	0.28	12.07	23.55	Pass
NVNT	ac20	5200	Ant2	11.29	0.28	11.57	23.55	Pass
NVNT	ac20	5240	Ant2	11.69	0.28	11.97	23.55	Pass
NVNT	ac40	5190	Ant2	10.03	0.53	10.56	23.55	Pass
NVNT	ac40	5230	Ant2	10.16	0.53	10.69	23.55	Pass
NVNT	ax20	5180	Ant2	11.88	0.28	12.16	23.55	Pass
NVNT	ax20	5200	Ant2	11.74	0.28	12.02	23.55	Pass
NVNT	ax20	5240	Ant2	11.81	0.28	12.09	23.55	Pass
NVNT	ax40	5190	Ant2	10.21	0.53	10.74	23.55	Pass
NVNT	ax40	5230	Ant2	10.23	0.53	10.76	23.55	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	-1.09	0.24	-0.85	10.55	Pass
NVNT	a	5200	Ant2	-1.72	0.24	-1.48	10.55	Pass
NVNT	a	5240	Ant2	-0.98	0.24	-0.74	10.55	Pass
NVNT	n20	5180	Ant2	-2.39	0.28	-2.11	10.55	Pass
NVNT	n20	5200	Ant2	-1.74	0.28	-1.46	10.55	Pass
NVNT	n20	5240	Ant2	-2.48	0.28	-2.2	10.55	Pass
NVNT	n40	5190	Ant2	-9.28	0.55	-8.73	10.55	Pass
NVNT	n40	5230	Ant2	-9.07	0.55	-8.52	10.55	Pass
NVNT	ac20	5180	Ant2	-1.25	0.28	-0.97	10.55	Pass
NVNT	ac20	5200	Ant2	-2.75	0.28	-2.47	10.55	Pass
NVNT	ac20	5240	Ant2	-0.91	0.28	-0.63	10.55	Pass
NVNT	ac40	5190	Ant2	-7.91	0.53	-7.38	10.55	Pass
NVNT	ac40	5230	Ant2	-7.98	0.53	-7.45	10.55	Pass
NVNT	ax20	5180	Ant2	-1.4	0.28	-1.12	10.55	Pass
NVNT	ax20	5200	Ant2	-1.97	0.28	-1.69	10.55	Pass
NVNT	ax20	5240	Ant2	-2.08	0.28	-1.8	10.55	Pass
NVNT	ax40	5190	Ant2	-8.34	0.53	-7.81	10.55	Pass
NVNT	ax40	5230	Ant2	-9.1	0.53	-8.57	10.55	Pass

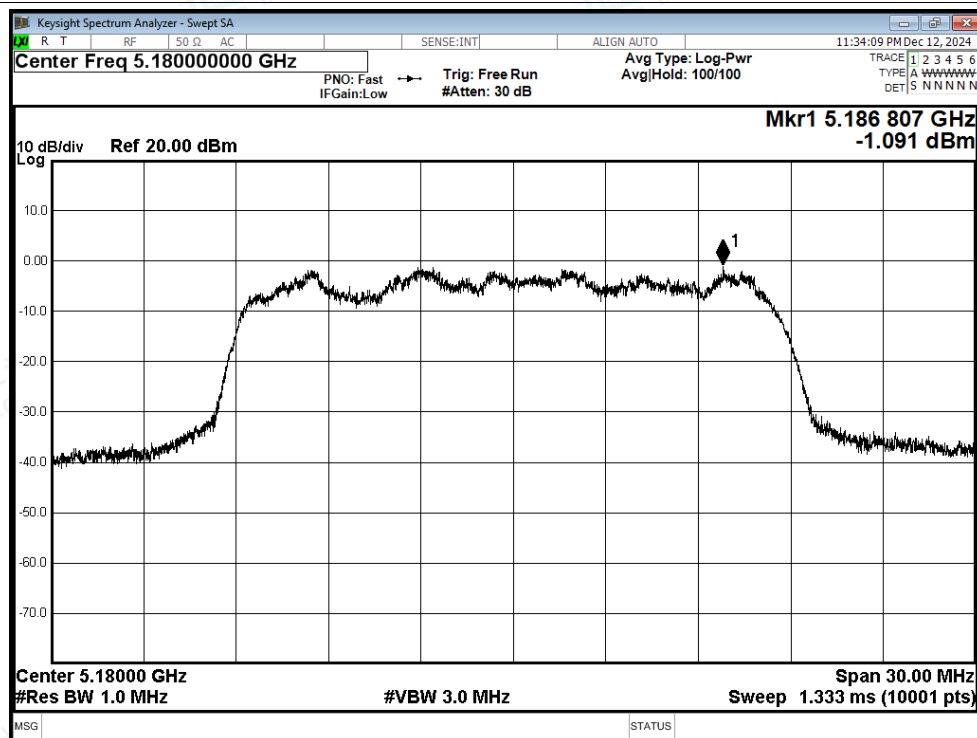


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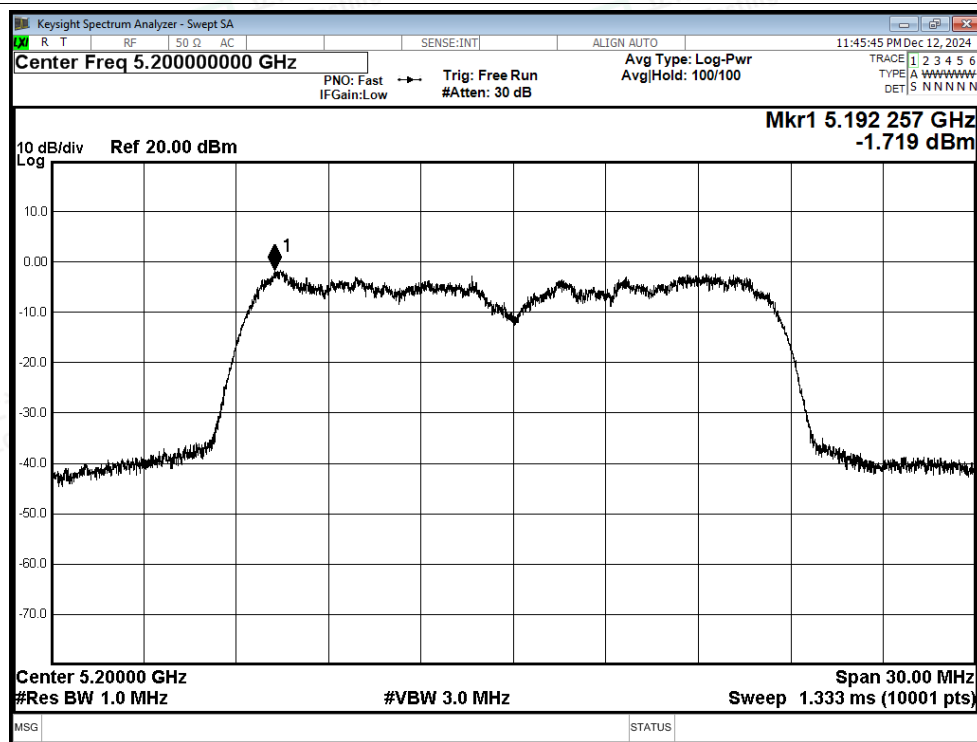


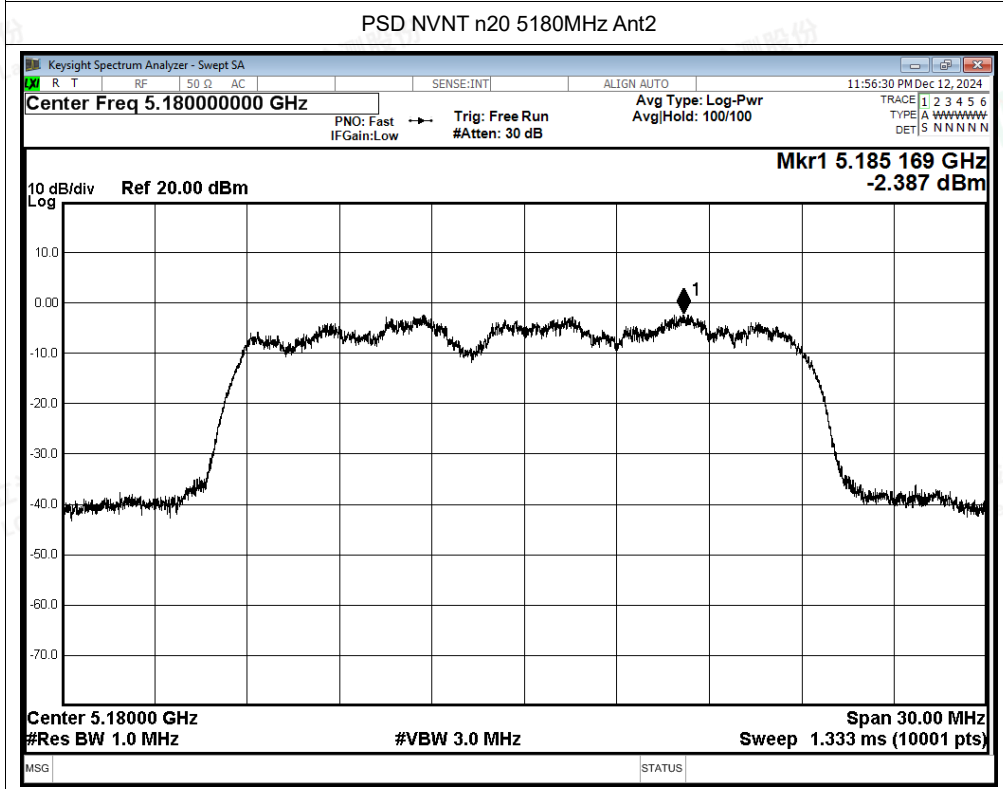
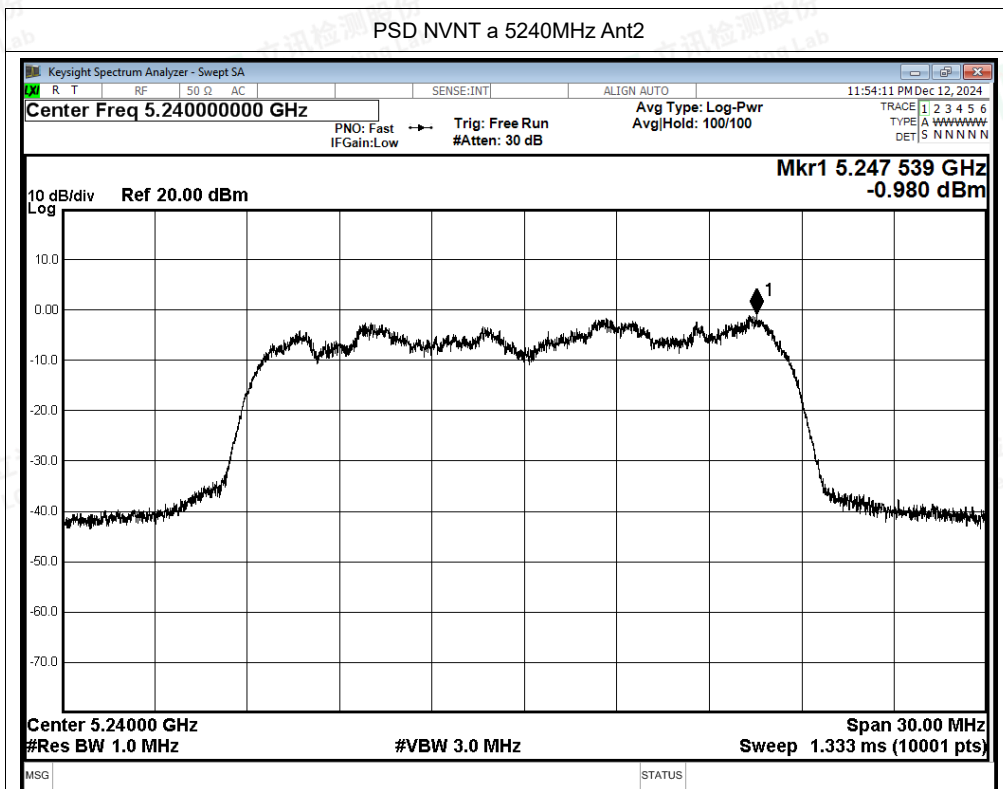
Test Graphs

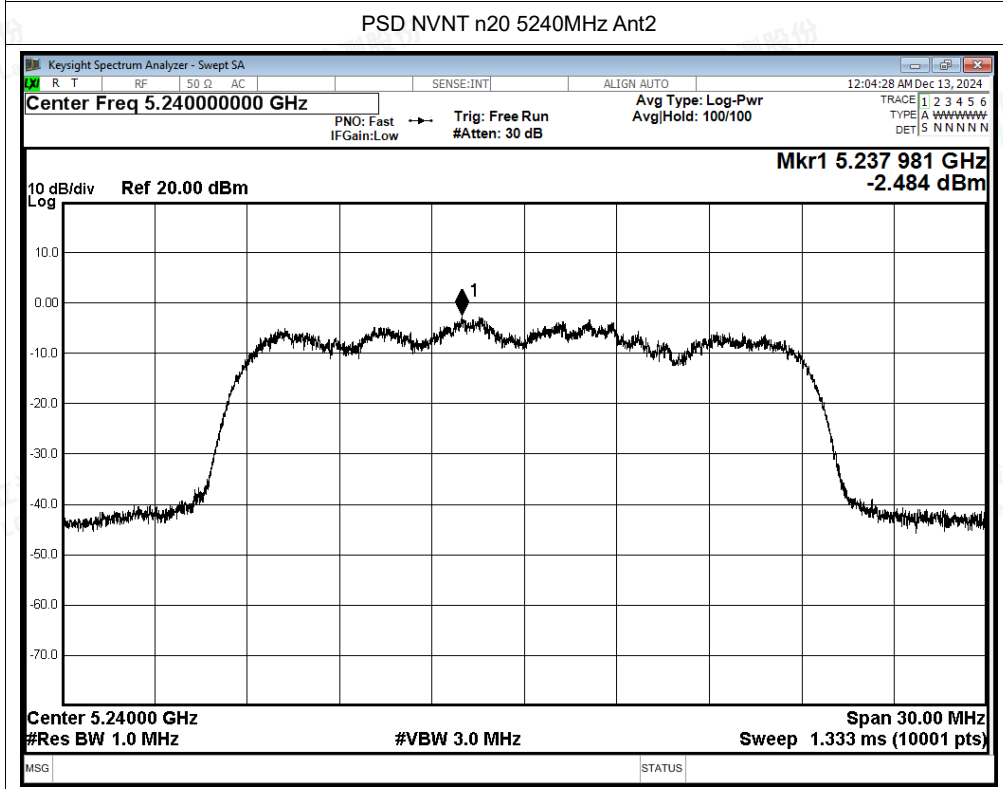
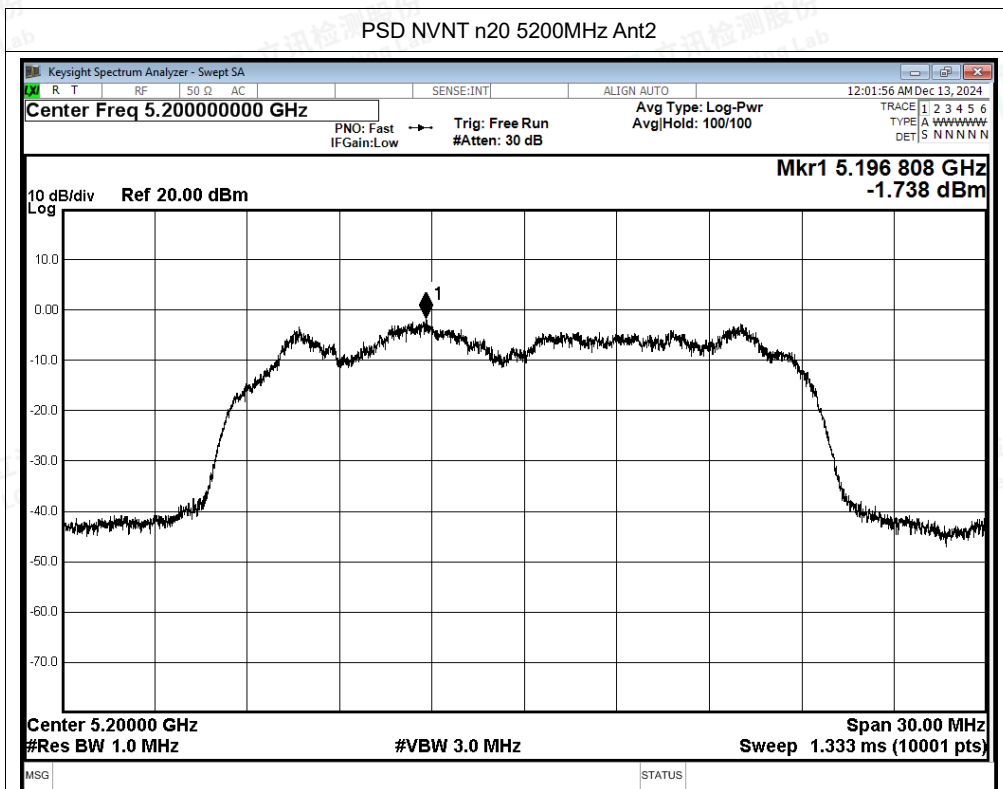
PSD NVNT a 5180MHz Ant2

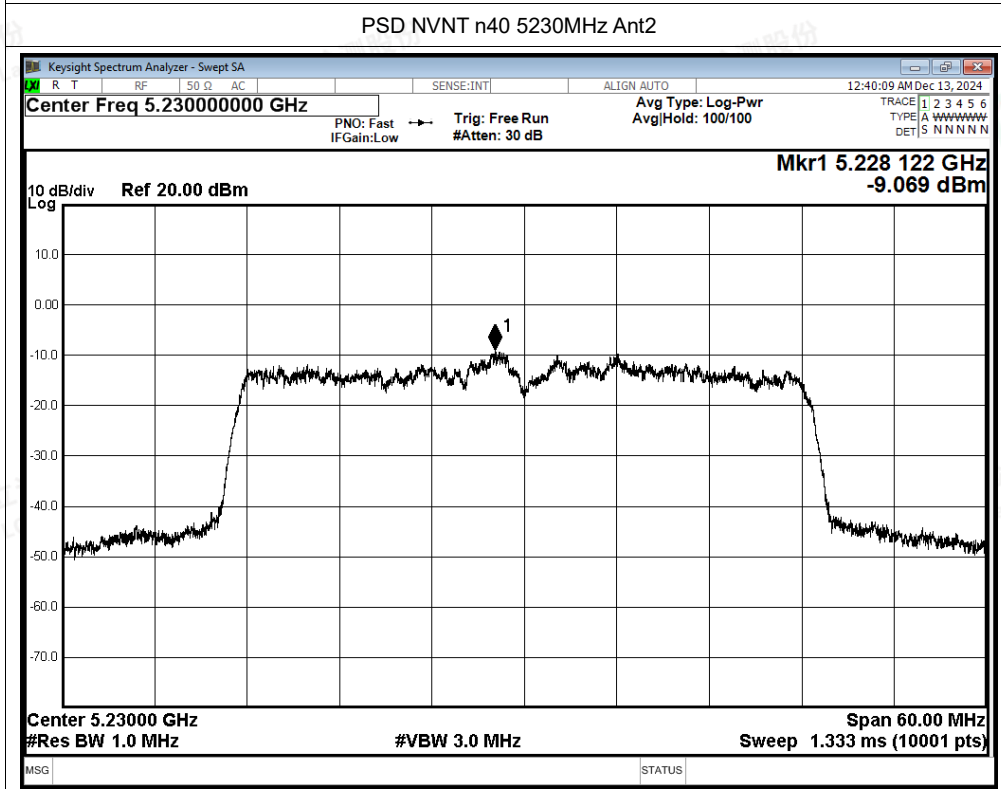
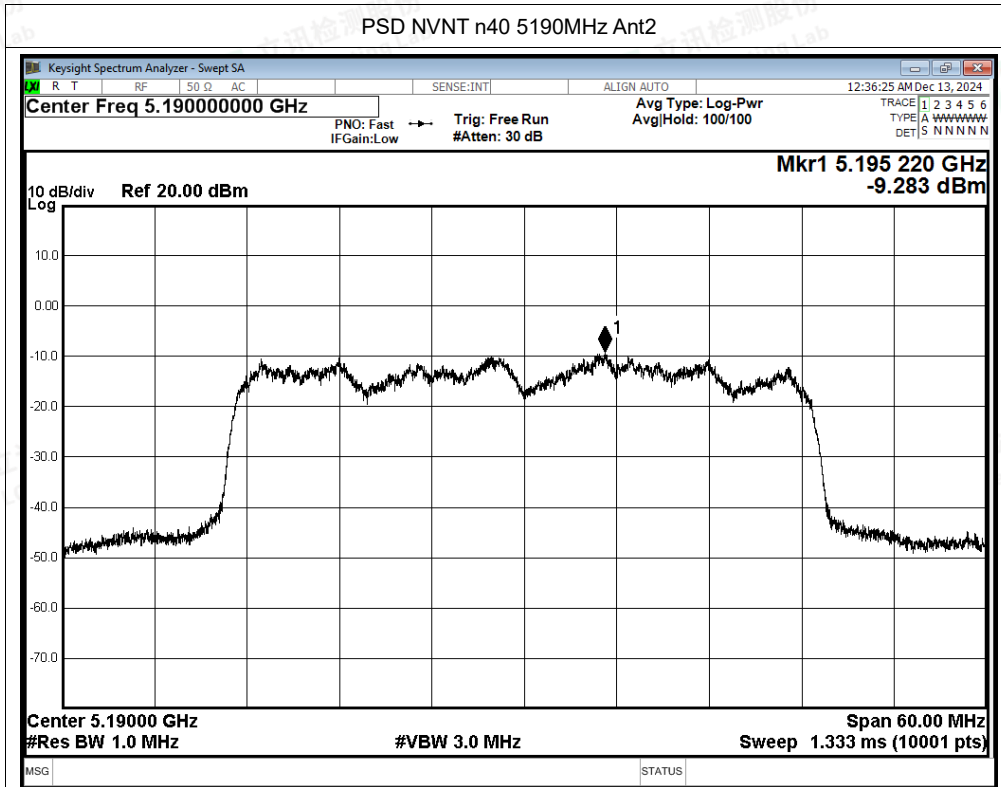


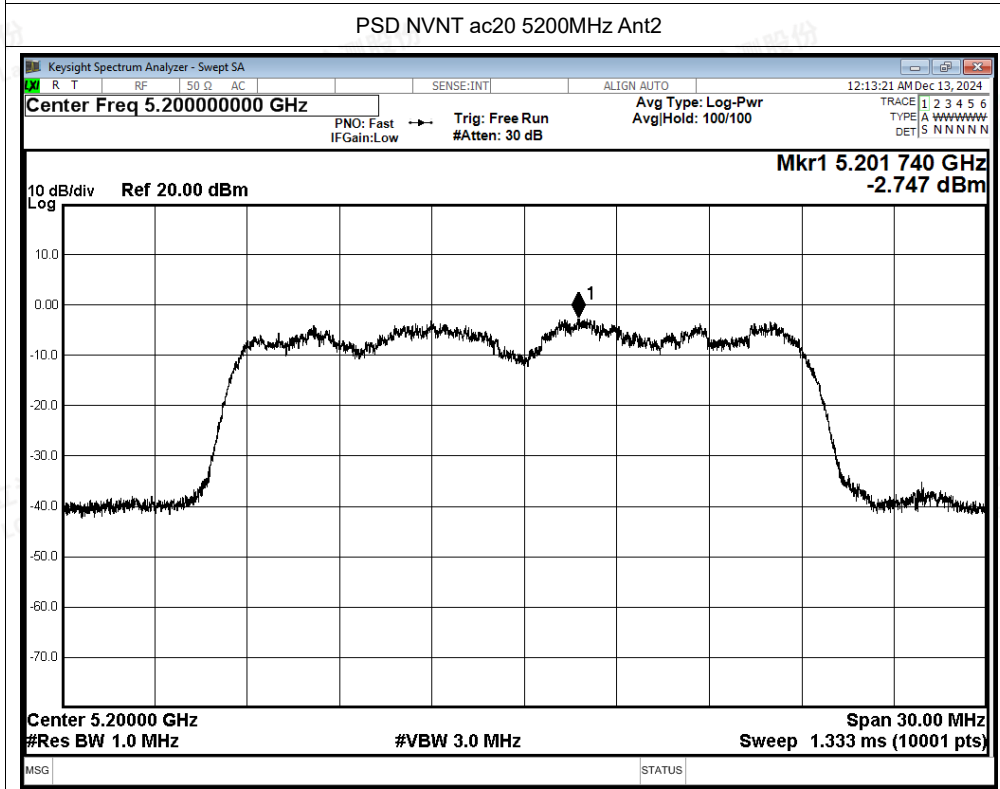
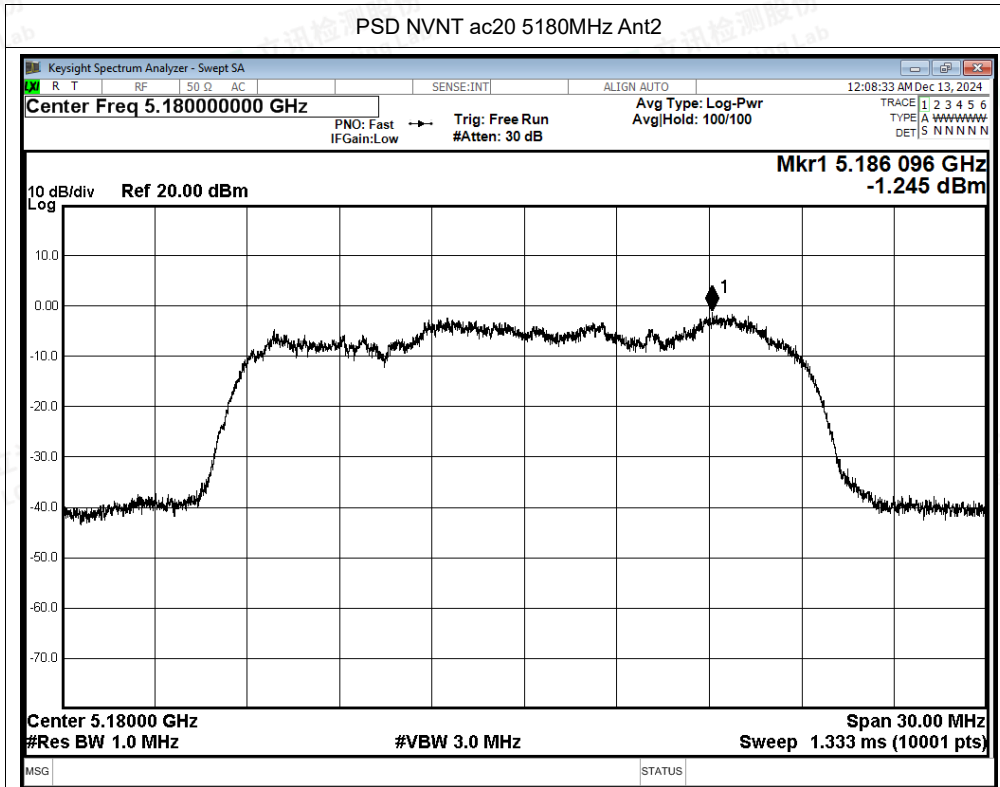
PSD NVNT a 5200MHz Ant2

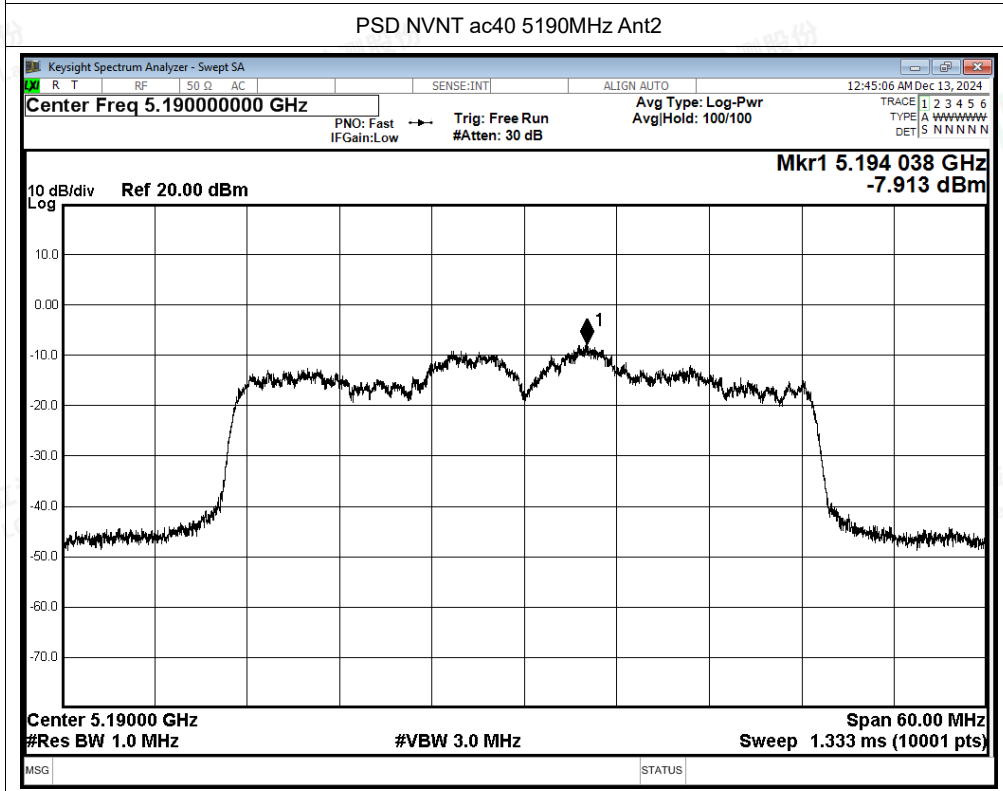
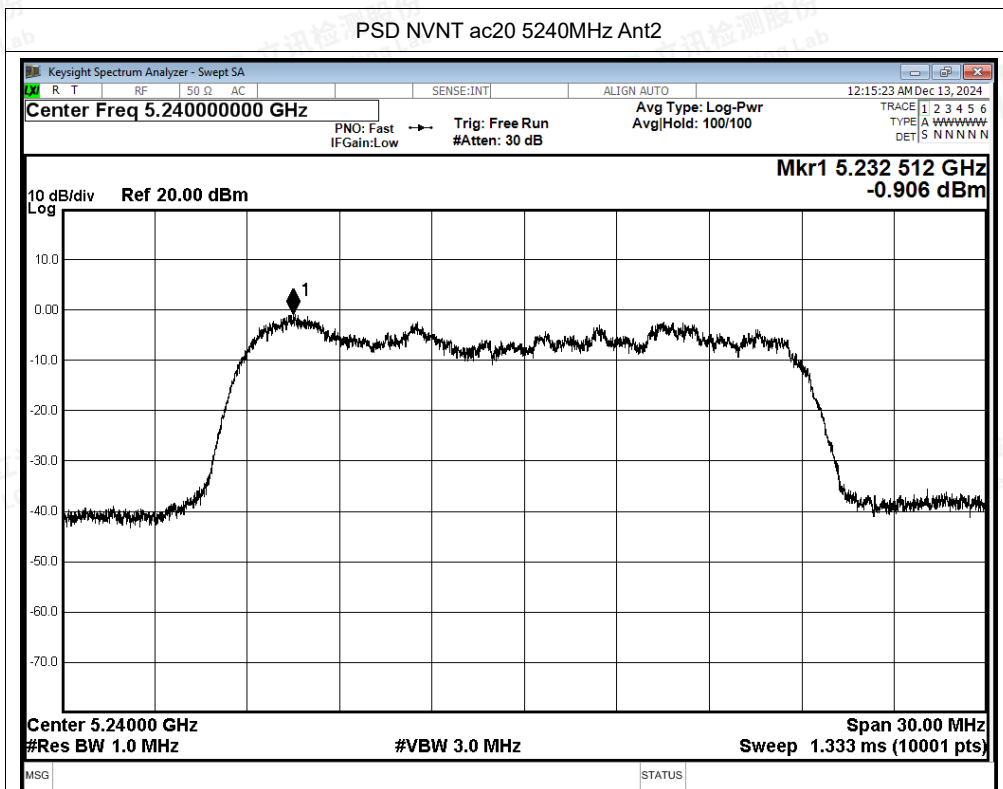


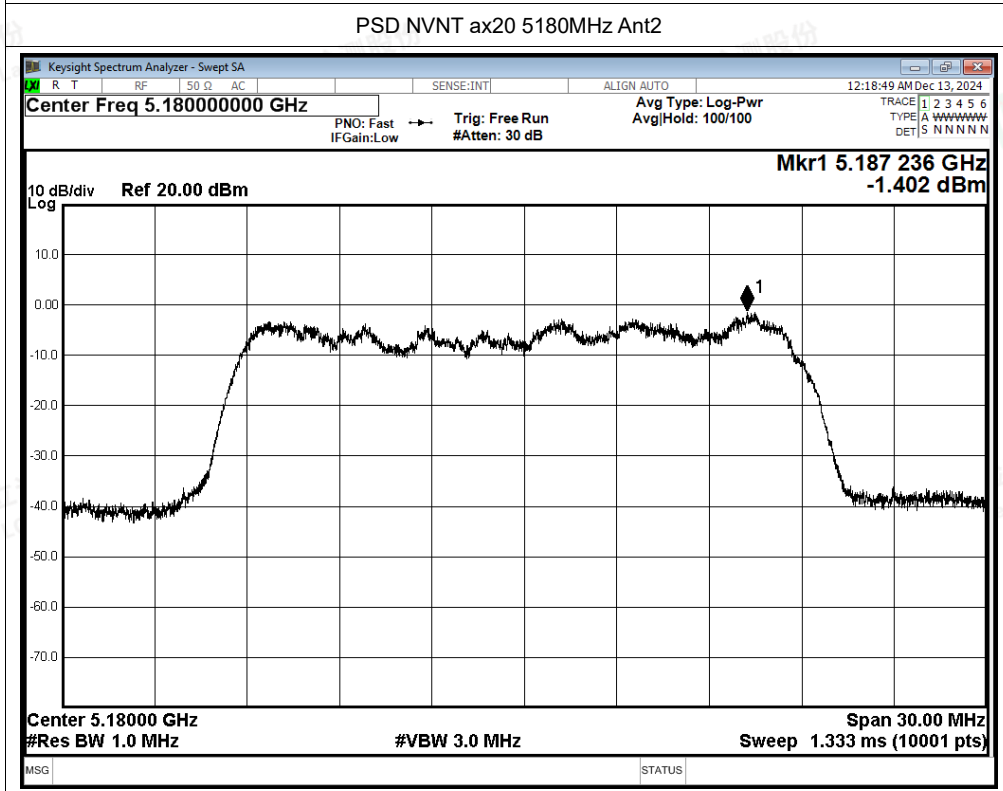
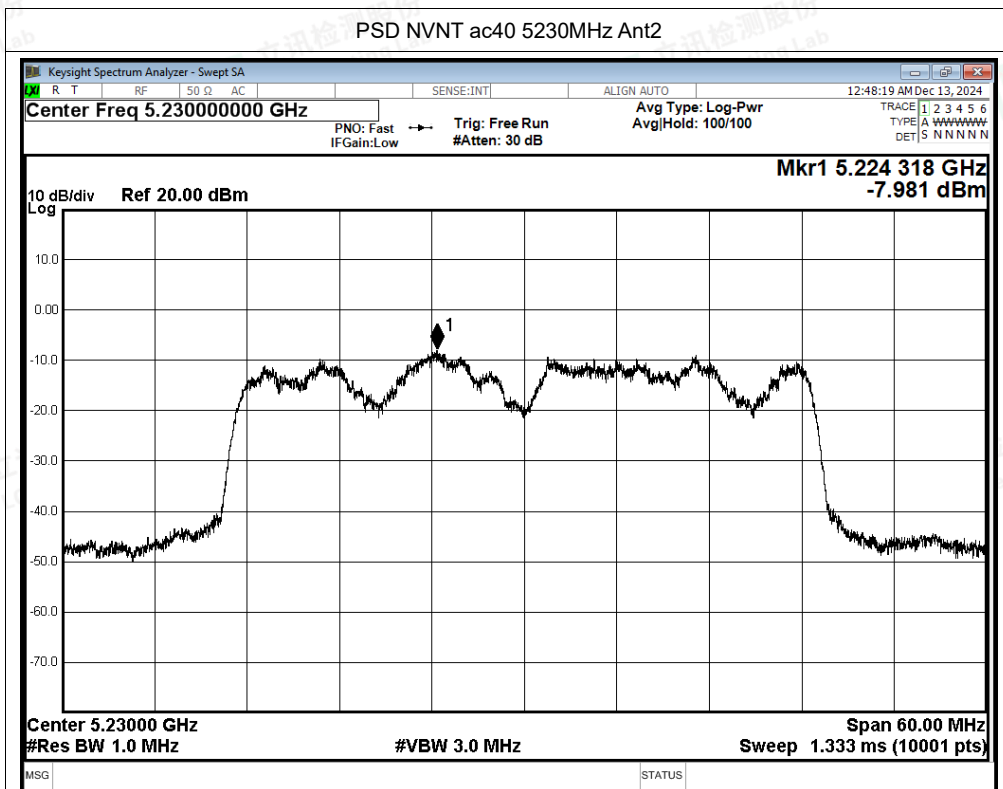


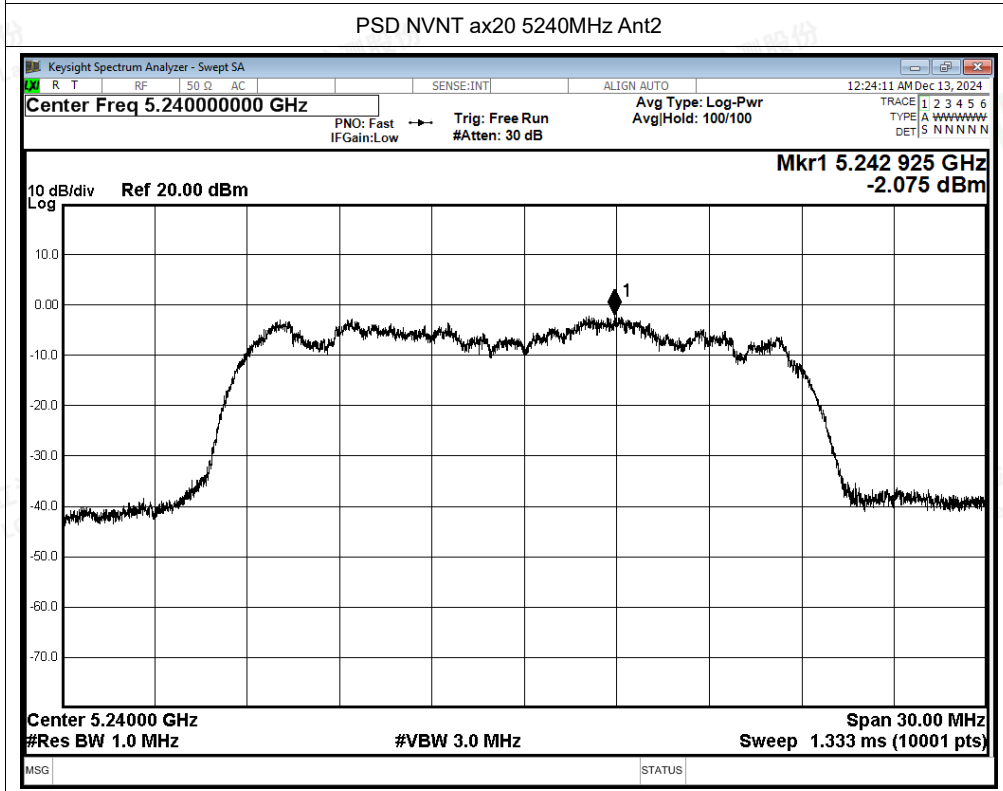
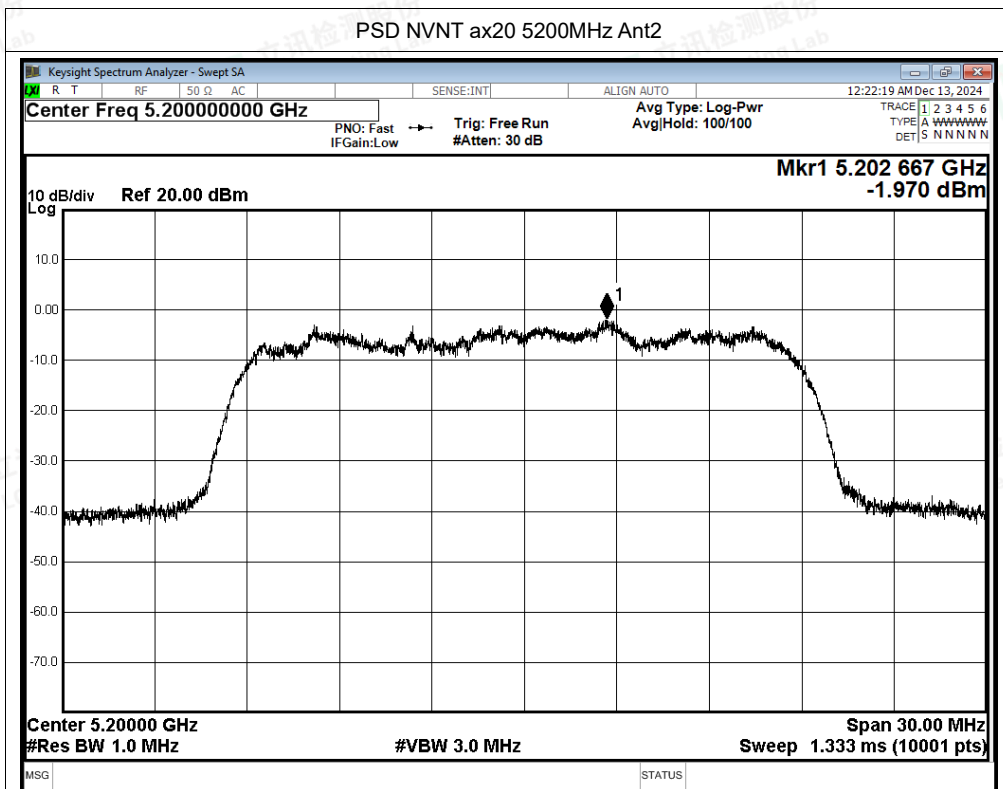


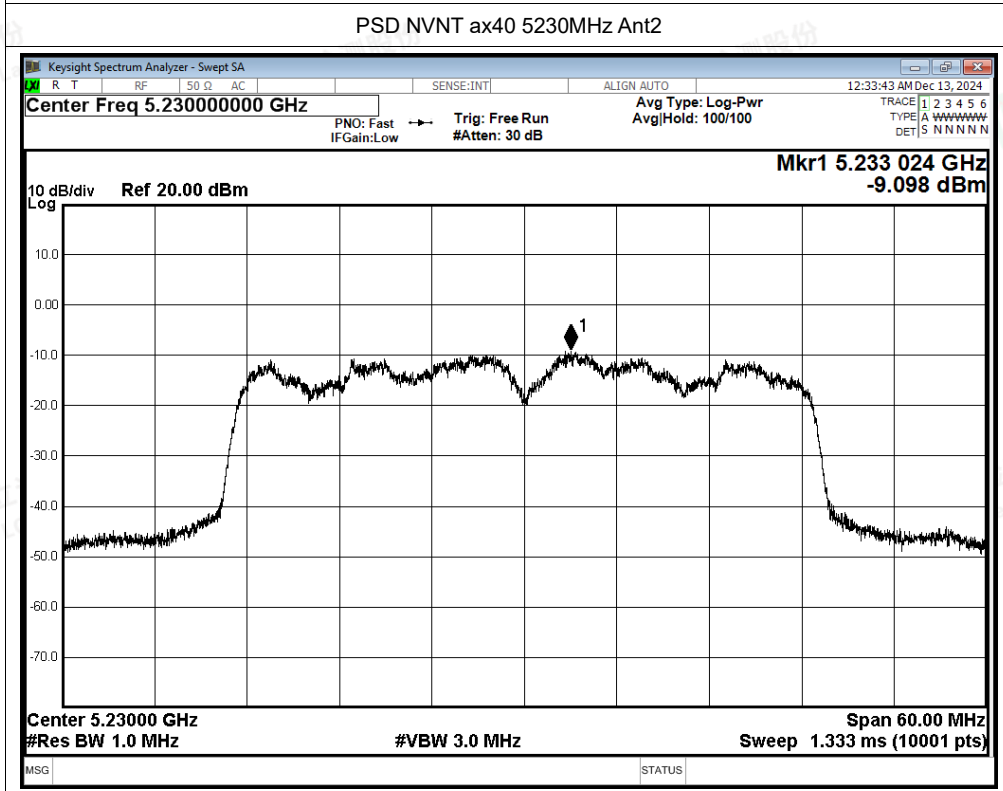
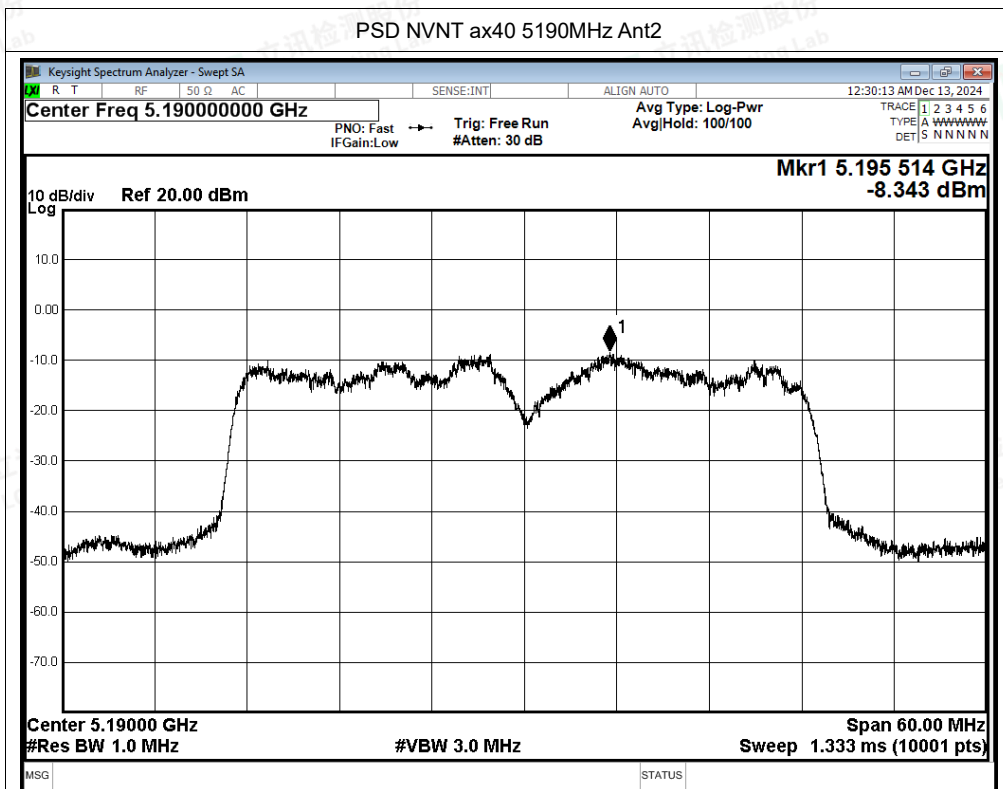














D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant2	4500	-53.18	6.45	-	48.50	Peak	68.2	Pass
NVNT	a	5180	Ant2	4500	-62.42	6.45	0.24	39.50	Average	54	Pass
NVNT	a	5180	Ant2	5148.9	-39.21	6.45	-	62.47	Peak	68.2	Pass
NVNT	a	5180	Ant2	5149.6	-53.23	6.45	0.24	48.69	Average	54	Pass
NVNT	a	5180	Ant2	5150	-39.27	6.45	-	62.41	Peak	68.2	Pass
NVNT	a	5180	Ant2	5150	-53.17	6.45	0.24	48.75	Average	54	Pass
NVNT	a	5240	Ant2	5350	-50.54	6.45	-	51.14	Peak	68.2	Pass
NVNT	a	5240	Ant2	5350	-60.01	6.45	0.24	41.91	Average	54	Pass
NVNT	a	5240	Ant2	5451.12	-49.26	6.45	-	52.42	Peak	68.2	Pass
NVNT	a	5240	Ant2	5350.08	-60.01	6.45	0.24	41.91	Average	54	Pass
NVNT	a	5240	Ant2	5460	-53.64	6.45	-	48.04	Peak	68.2	Pass
NVNT	a	5240	Ant2	5460	-62.14	6.45	0.24	39.78	Average	54	Pass
NVNT	n20	5180	Ant2	4500	-52.32	6.45	-	49.36	Peak	68.2	Pass
NVNT	n20	5180	Ant2	4500	-62.24	6.45	0.28	39.72	Average	54	Pass
NVNT	n20	5180	Ant2	5149.6	-36.12	6.45	-	65.56	Peak	68.2	Pass
NVNT	n20	5180	Ant2	5149.6	-52.82	6.45	0.28	49.14	Average	54	Pass
NVNT	n20	5180	Ant2	5150	-38.92	6.45	-	62.76	Peak	68.2	Pass
NVNT	n20	5180	Ant2	5150	-52.44	6.45	0.28	49.52	Average	54	Pass
NVNT	n20	5240	Ant2	5350	-50.44	6.45	-	51.24	Peak	68.2	Pass
NVNT	n20	5240	Ant2	5350	-60.48	6.45	0.28	41.48	Average	54	Pass
NVNT	n20	5240	Ant2	5421.12	-49.32	6.45	-	52.36	Peak	68.2	Pass
NVNT	n20	5240	Ant2	5351.28	-60.22	6.45	0.28	41.74	Average	54	Pass
NVNT	n20	5240	Ant2	5460	-53.53	6.45	-	48.15	Peak	68.2	Pass
NVNT	n20	5240	Ant2	5460	-62.15	6.45	0.28	39.81	Average	54	Pass
NVNT	n40	5190	Ant2	4500	-51.34	6.45	-	50.34	Peak	68.2	Pass
NVNT	n40	5190	Ant2	4500	-61.9	6.45	0.55	40.33	Average	54	Pass
NVNT	n40	5190	Ant2	5148.97	-40.88	6.45	-	60.80	Peak	68.2	Pass
NVNT	n40	5190	Ant2	5149.7	-50.57	6.45	0.55	51.66	Average	54	Pass
NVNT	n40	5190	Ant2	5150	-42.31	6.45	-	59.37	Peak	68.2	Pass
NVNT	n40	5190	Ant2	5150	-50.57	6.45	0.55	51.66	Average	54	Pass
NVNT	n40	5230	Ant2	5350	-51.32	6.45	-	50.36	Peak	68.2	Pass
NVNT	n40	5230	Ant2	5350	-60.36	6.45	0.55	41.87	Average	54	Pass
NVNT	n40	5230	Ant2	5373.06	-48.83	6.45	-	52.85	Peak	68.2	Pass
NVNT	n40	5230	Ant2	5350.11	-60.36	6.45	0.55	41.87	Average	54	Pass
NVNT	n40	5230	Ant2	5460	-53.16	6.45	-	48.52	Peak	68.2	Pass
NVNT	n40	5230	Ant2	5460	-61.88	6.45	0.55	40.35	Average	54	Pass



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NVNT	ac20	5180	Ant2	4500	-52.04	6.45	-	49.64	Peak	68.2	Pass
NVNT	ac20	5180	Ant2	4500	-62.47	6.45	0.28	39.49	Average	54	Pass
NVNT	ac20	5180	Ant2	5148.9	-39.34	6.45	-	62.34	Peak	68.2	Pass
NVNT	ac20	5180	Ant2	5149.6	-53.83	6.45	0.28	48.13	Average	54	Pass
NVNT	ac20	5180	Ant2	5150	-37.07	6.45	-	64.61	Peak	68.2	Pass
NVNT	ac20	5180	Ant2	5150	-53.5	6.45	0.28	48.46	Average	54	Pass
NVNT	ac20	5240	Ant2	5350	-49.67	6.45	-	52.01	Peak	68.2	Pass
NVNT	ac20	5240	Ant2	5350	-60.18	6.45	0.28	41.78	Average	54	Pass
NVNT	ac20	5240	Ant2	5352	-48.93	6.45	-	52.75	Peak	68.2	Pass
NVNT	ac20	5240	Ant2	5351.04	-60.01	6.45	0.28	41.95	Average	54	Pass
NVNT	ac20	5240	Ant2	5460	-52.44	6.45	-	49.24	Peak	68.2	Pass
NVNT	ac20	5240	Ant2	5460	-61.84	6.45	0.28	40.12	Average	54	Pass
NVNT	ac40	5190	Ant2	4500	-52.65	6.45	-	49.03	Peak	68.2	Pass
NVNT	ac40	5190	Ant2	4500	-61.94	6.45	0.53	40.27	Average	54	Pass
NVNT	ac40	5190	Ant2	5147.51	-40.66	6.45	-	61.02	Peak	68.2	Pass
NVNT	ac40	5190	Ant2	5148.97	-53.5	6.45	0.53	48.71	Average	54	Pass
NVNT	ac40	5190	Ant2	5150	-41.19	6.45	-	60.49	Peak	68.2	Pass
NVNT	ac40	5190	Ant2	5150	-53.7	6.45	0.53	48.51	Average	54	Pass
NVNT	ac40	5230	Ant2	5350	-50.72	6.45	-	50.96	Peak	68.2	Pass
NVNT	ac40	5230	Ant2	5350	-60.76	6.45	0.53	41.45	Average	54	Pass
NVNT	ac40	5230	Ant2	5374.41	-49.76	6.45	-	51.92	Peak	68.2	Pass
NVNT	ac40	5230	Ant2	5351.73	-60.45	6.45	0.53	41.76	Average	54	Pass
NVNT	ac40	5230	Ant2	5460	-52.39	6.45	-	49.29	Peak	68.2	Pass
NVNT	ac40	5230	Ant2	5460	-61.84	6.45	0.53	40.37	Average	54	Pass
NVNT	ax20	5180	Ant2	4500	-53.27	6.45	-	48.41	Peak	68.2	Pass
NVNT	ax20	5180	Ant2	4500	-62.43	6.45	0.28	39.53	Average	54	Pass
NVNT	ax20	5180	Ant2	5149.6	-38.6	6.45	-	63.08	Peak	68.2	Pass
NVNT	ax20	5180	Ant2	5149.6	-51	6.45	0.28	50.96	Average	54	Pass
NVNT	ax20	5180	Ant2	5150	-37.24	6.45	-	64.44	Peak	68.2	Pass
NVNT	ax20	5180	Ant2	5150	-50.59	6.45	0.28	51.37	Average	54	Pass
NVNT	ax20	5240	Ant2	5350	-51.27	6.45	-	50.41	Peak	68.2	Pass
NVNT	ax20	5240	Ant2	5350	-60.16	6.45	0.28	41.80	Average	54	Pass
NVNT	ax20	5240	Ant2	5374.8	-49.24	6.45	-	52.44	Peak	68.2	Pass
NVNT	ax20	5240	Ant2	5350.08	-60.16	6.45	0.28	41.80	Average	54	Pass
NVNT	ax20	5240	Ant2	5460	-52.96	6.45	-	48.72	Peak	68.2	Pass
NVNT	ax20	5240	Ant2	5460	-61.87	6.45	0.28	40.09	Average	54	Pass
NVNT	ax40	5190	Ant2	4500	-53.44	6.45	-	48.24	Peak	68.2	Pass
NVNT	ax40	5190	Ant2	4500	-62.1	6.45	0.53	40.11	Average	54	Pass
NVNT	ax40	5190	Ant2	5149.7	-35.68	6.45	-	66.00	Peak	68.2	Pass
NVNT	ax40	5190	Ant2	5149.7	-50.49	6.45	0.53	51.72	Average	54	Pass
NVNT	ax40	5190	Ant2	5150	-35.68	6.45	-	66.00	Peak	68.2	Pass



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NVNT	ax40	5190	Ant2	5150	-50.49	6.45	0.53	51.72	Average	54	Pass
NVNT	ax40	5230	Ant2	5350	-52.04	6.45	-	49.64	Peak	68.2	Pass
NVNT	ax40	5230	Ant2	5350	-60.63	6.45	0.53	41.58	Average	54	Pass
NVNT	ax40	5230	Ant2	5361.18	-48.7	6.45	-	52.98	Peak	68.2	Pass
NVNT	ax40	5230	Ant2	5350.92	-60.35	6.45	0.53	41.86	Average	54	Pass
NVNT	ax40	5230	Ant2	5460	-53.36	6.45	-	48.32	Peak	68.2	Pass
NVNT	ax40	5230	Ant2	5460	-61.71	6.45	0.53	40.50	Average	54	Pass

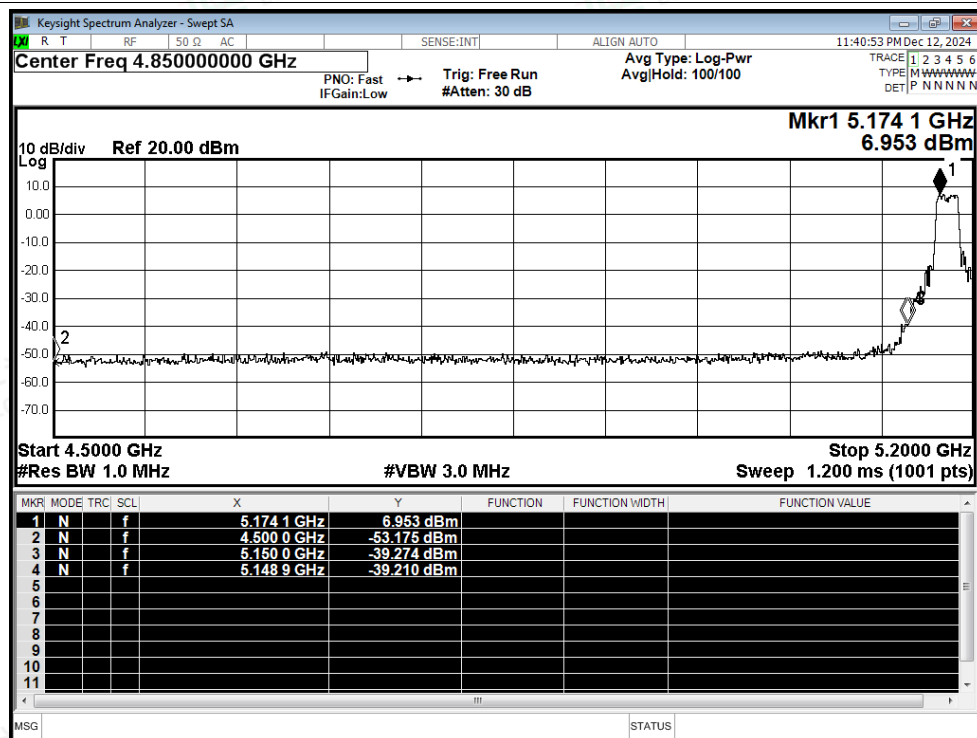


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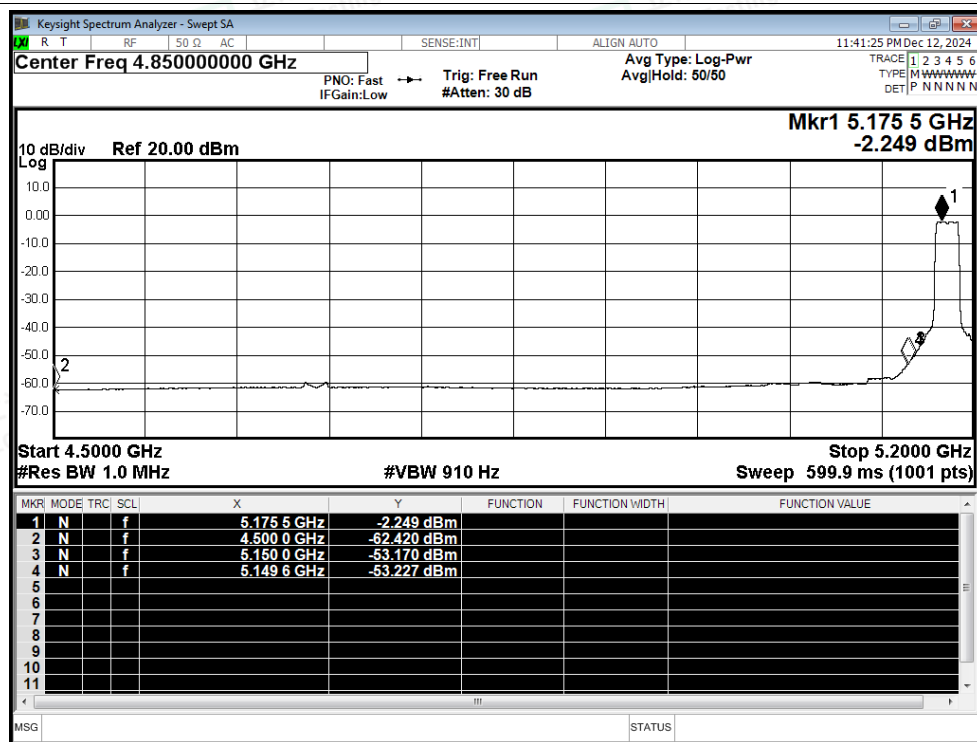


Test Graphs

Restrict Band NVNT a 5180MHz Ant2 Peak



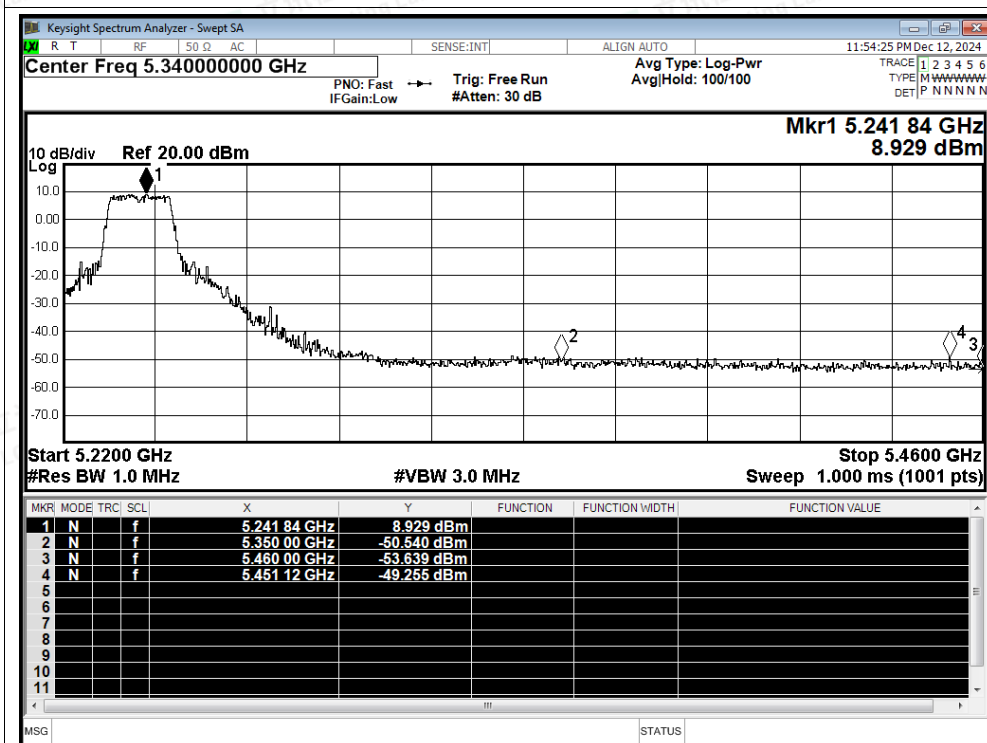
Restrict Band NVNT a 5180MHz Ant2 Average



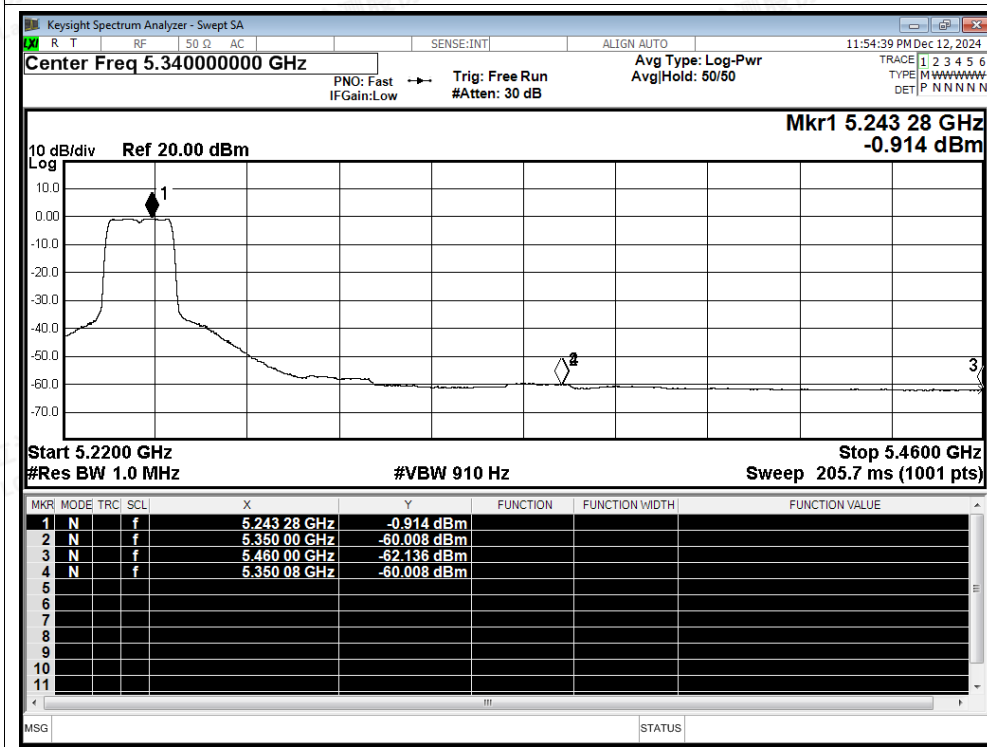
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Restrict Band NVNT a 5240MHz Ant2 Peak



Restrict Band NVNT a 5240MHz Ant2 Average

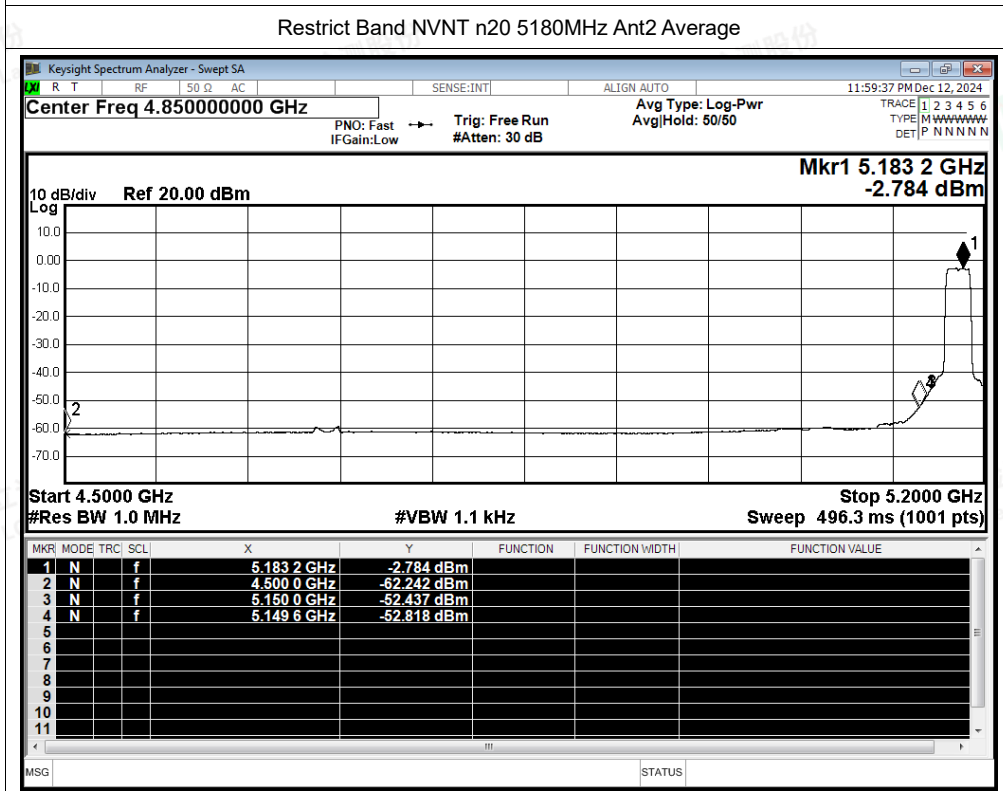
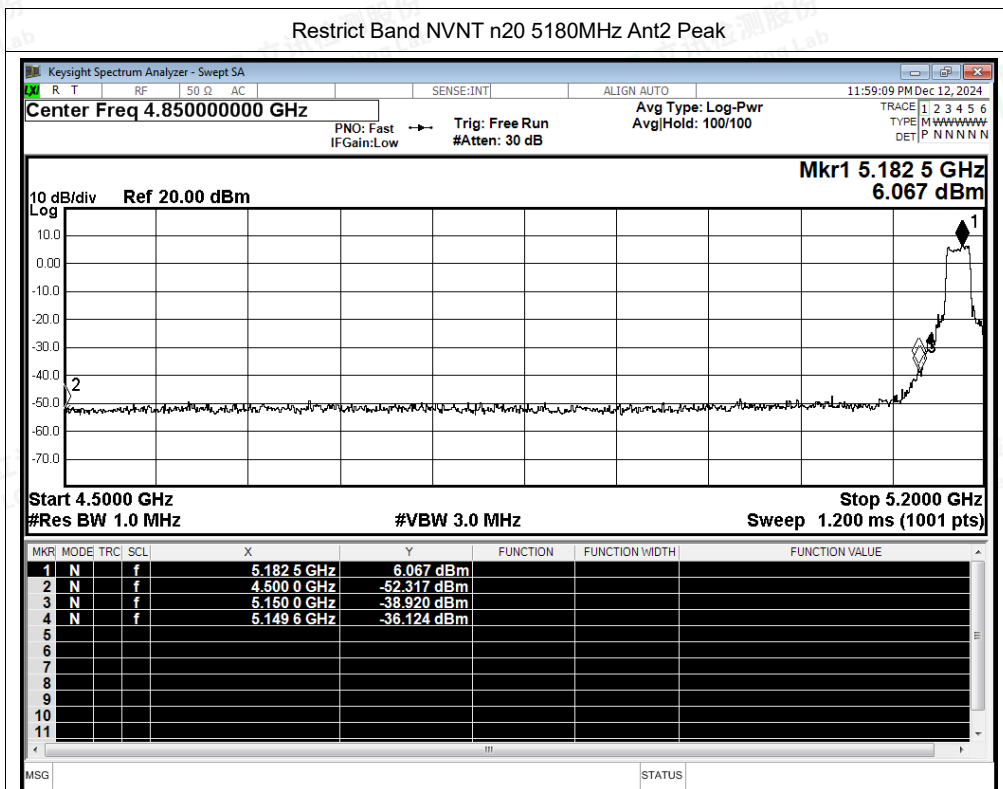


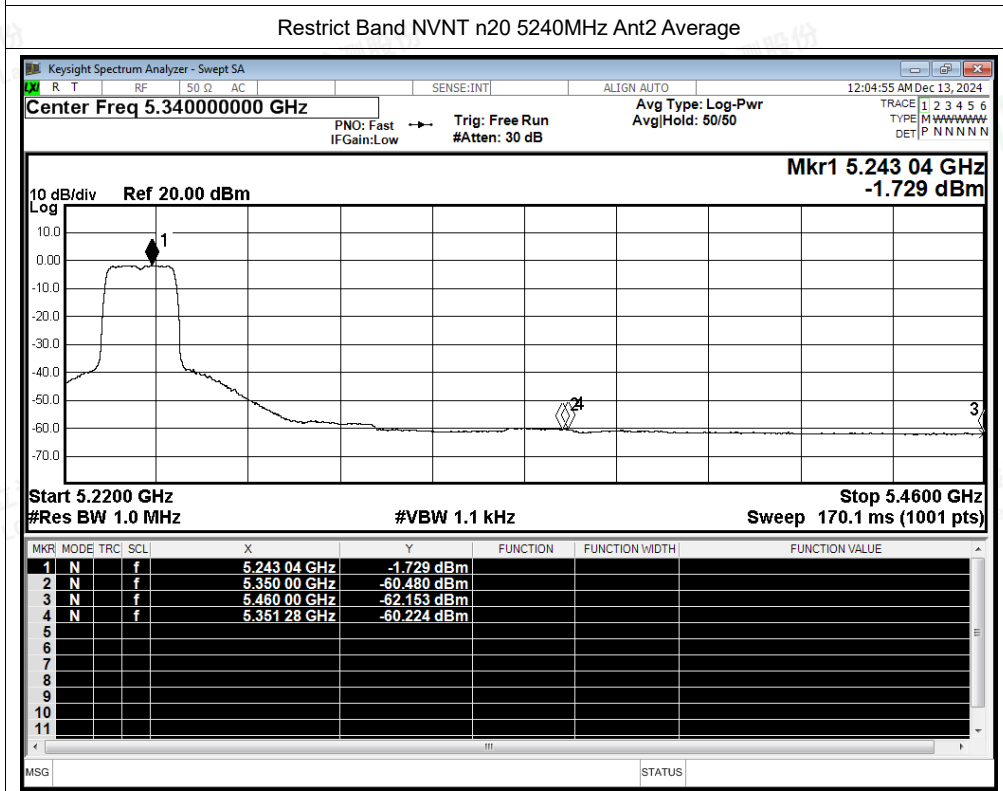
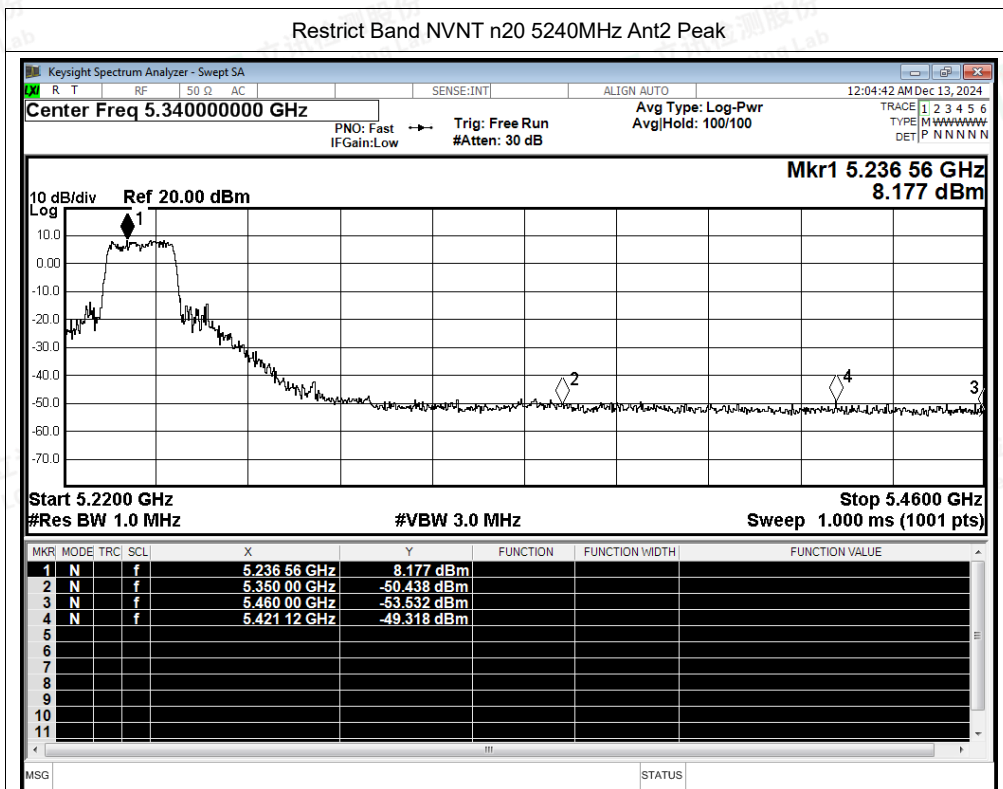
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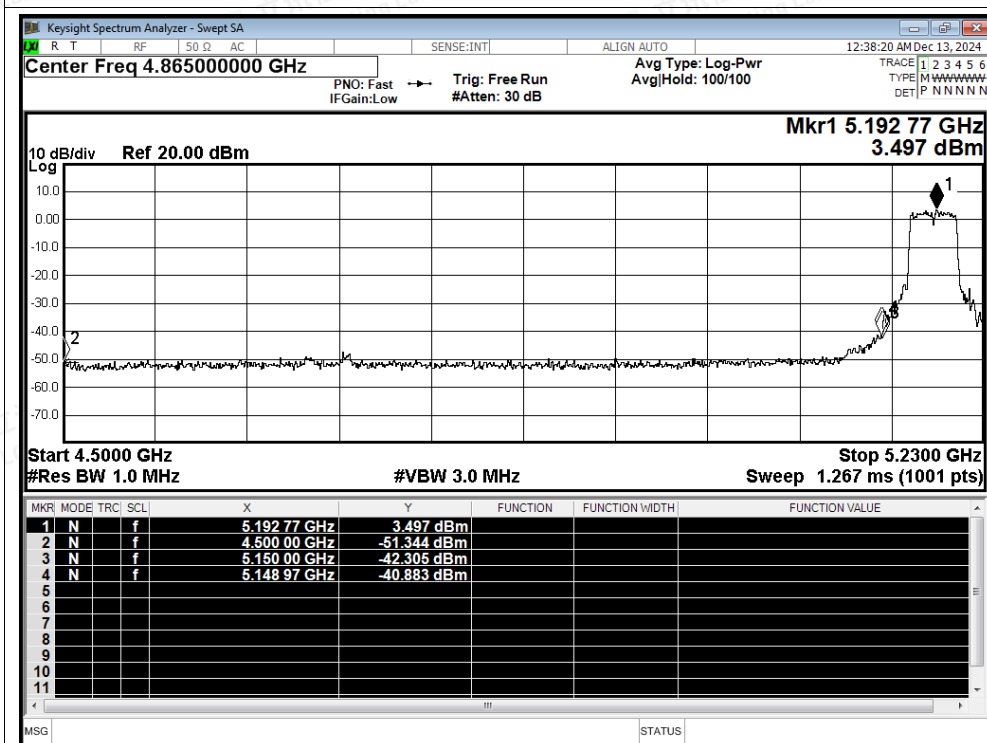
Scan code to check authenticity



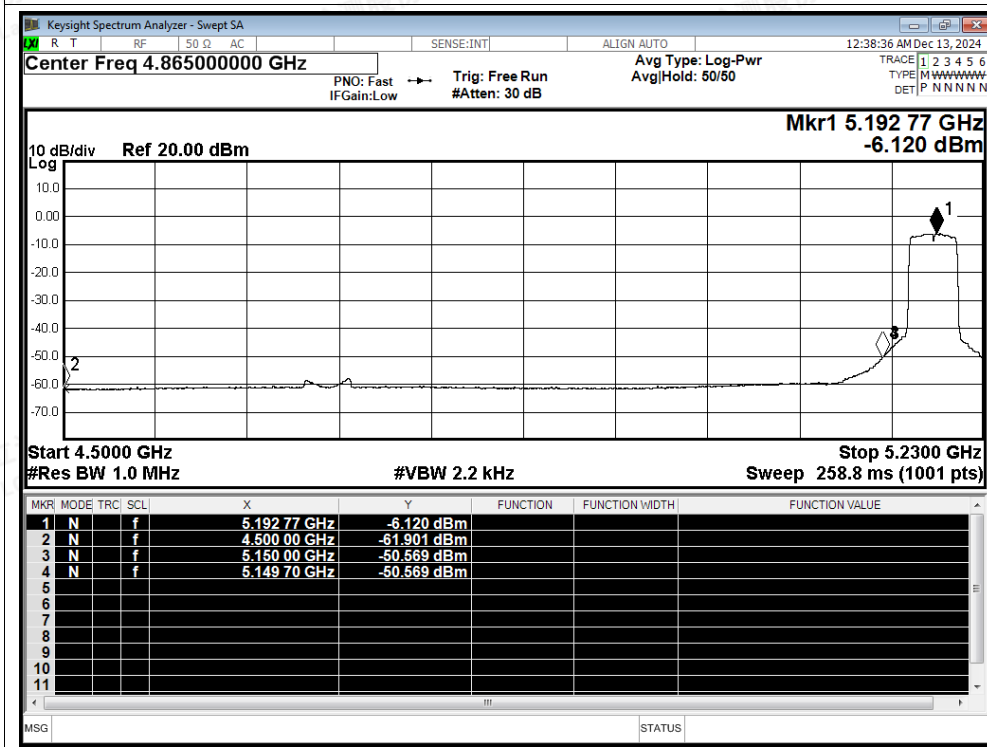




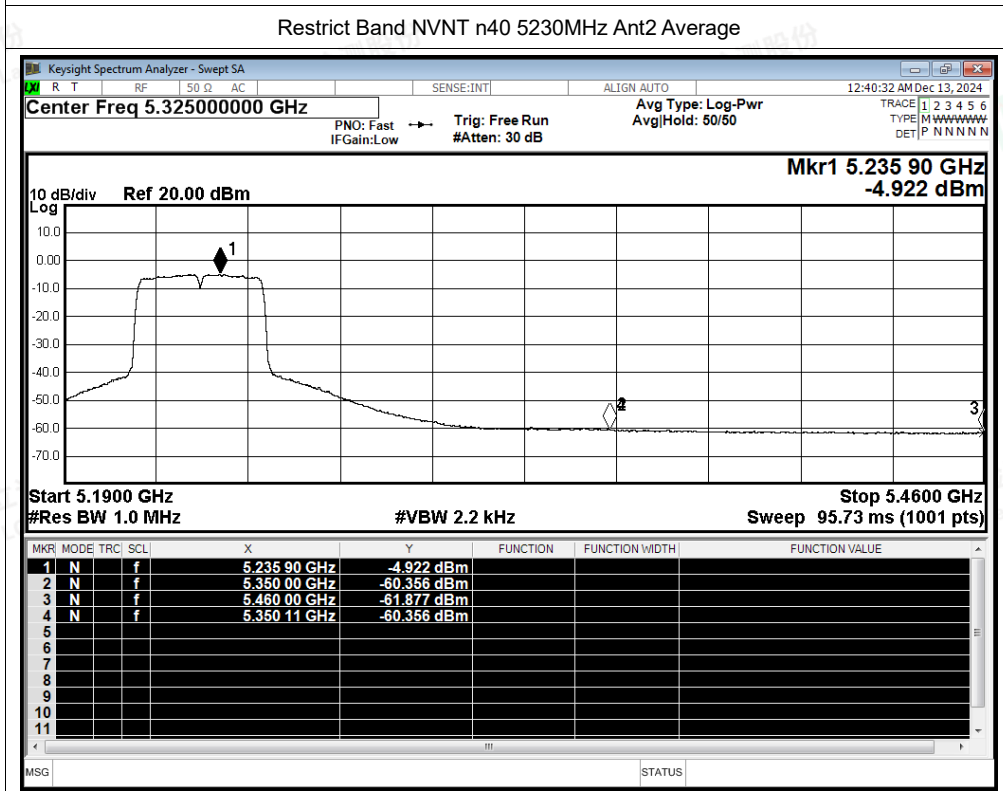
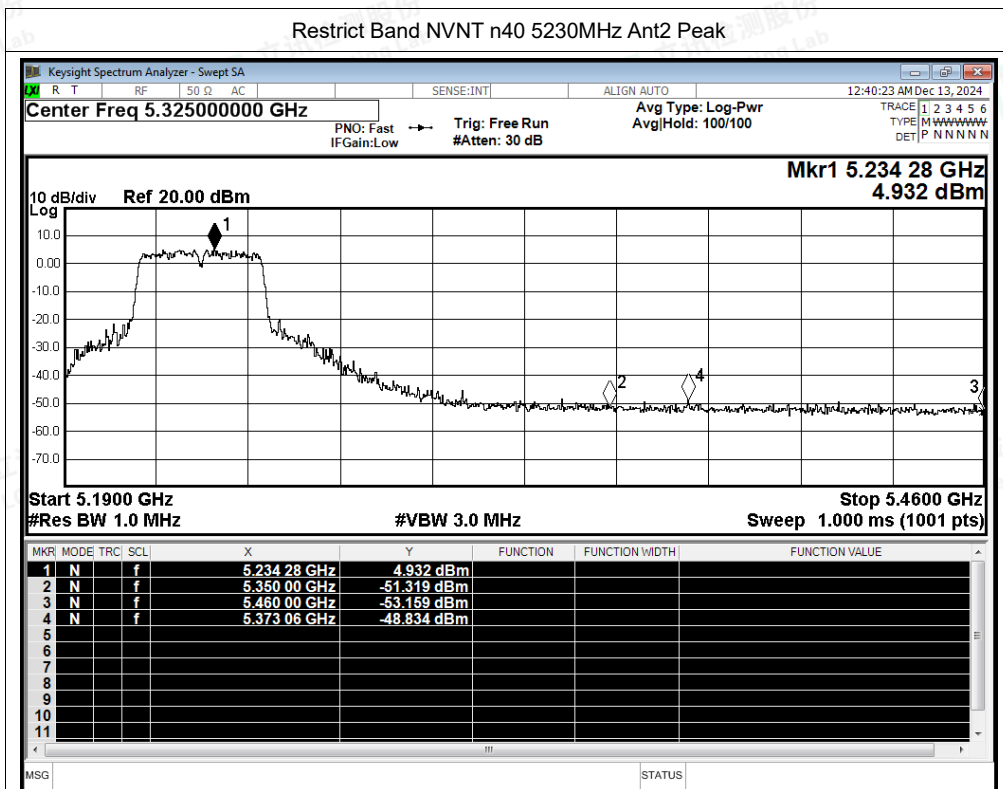
Restrict Band NVNT n40 5190MHz Ant2 Peak



Restrict Band NVNT n40 5190MHz Ant2 Average

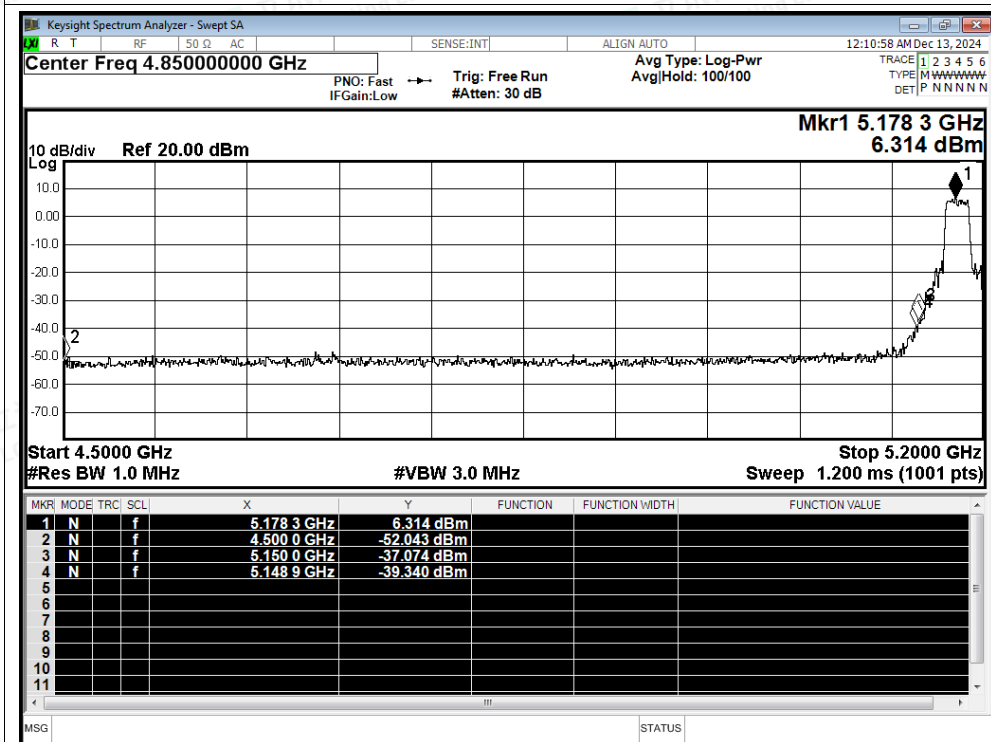


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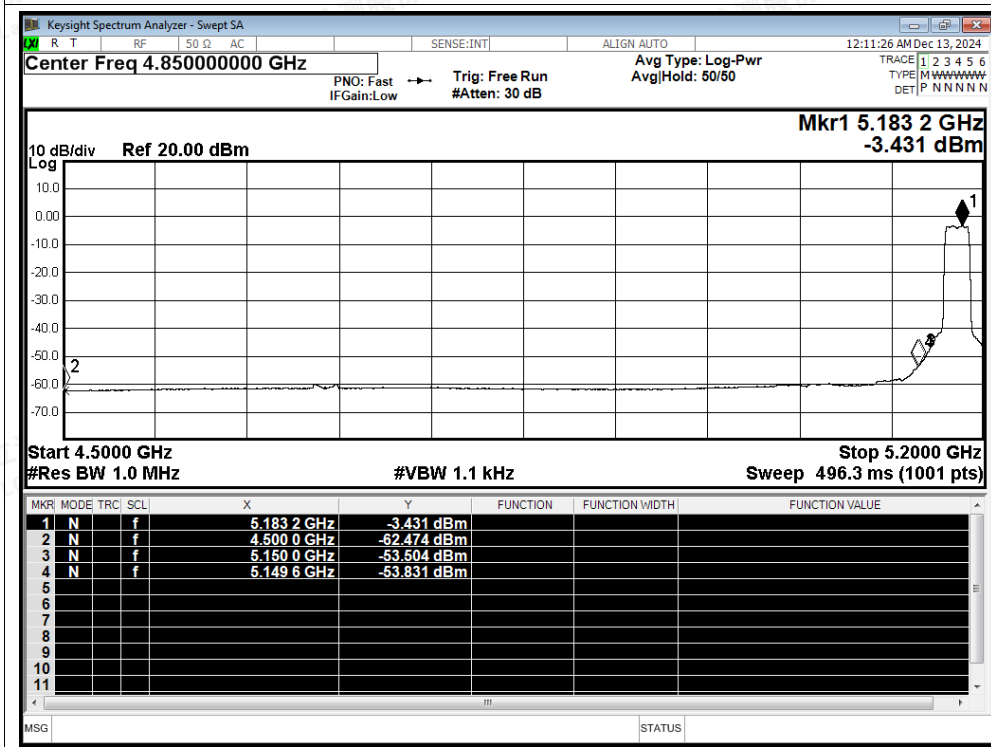




Restrict Band NVNT ac20 5180MHz Ant2 Peak

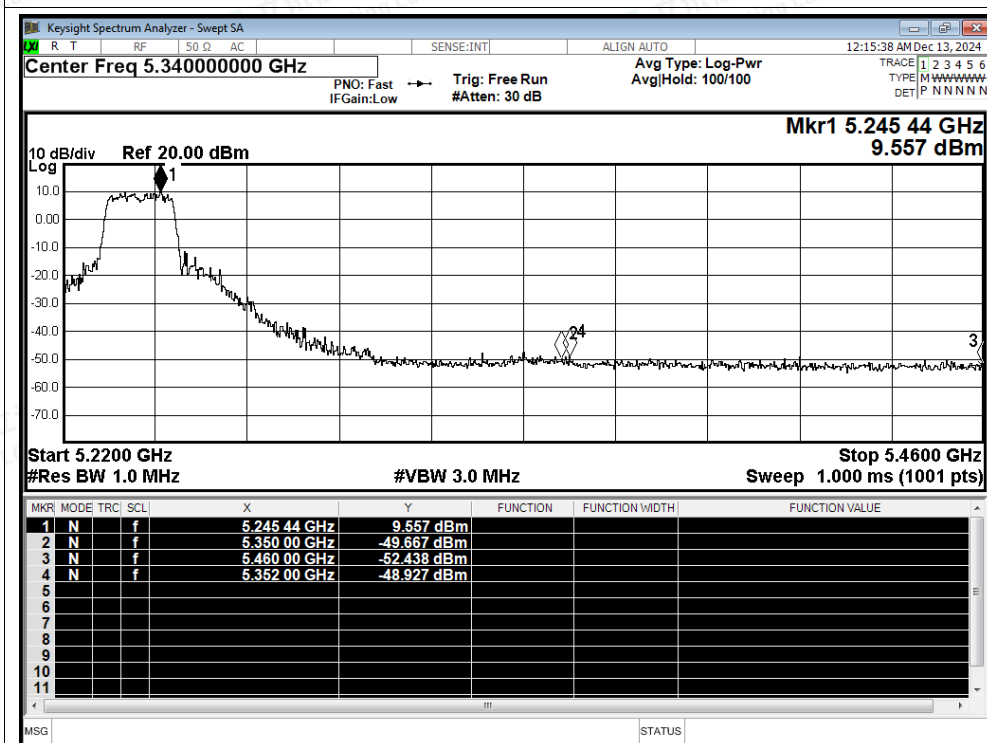


Restrict Band NVNT ac20 5180MHz Ant2 Average

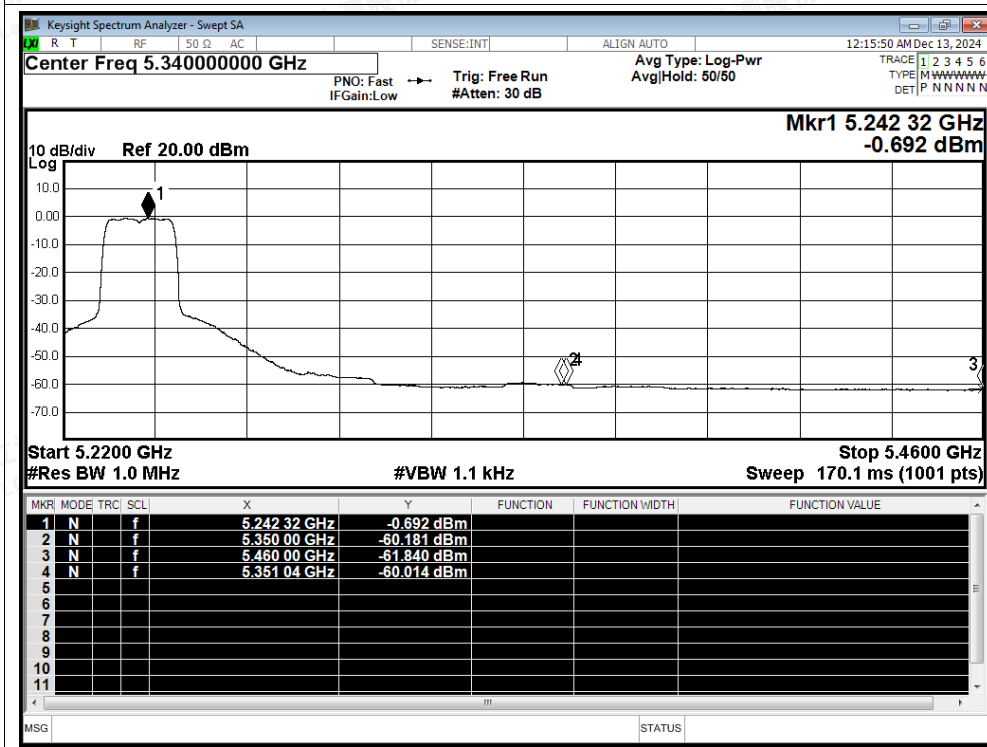




Restrict Band NVNT ac20 5240MHz Ant2 Peak

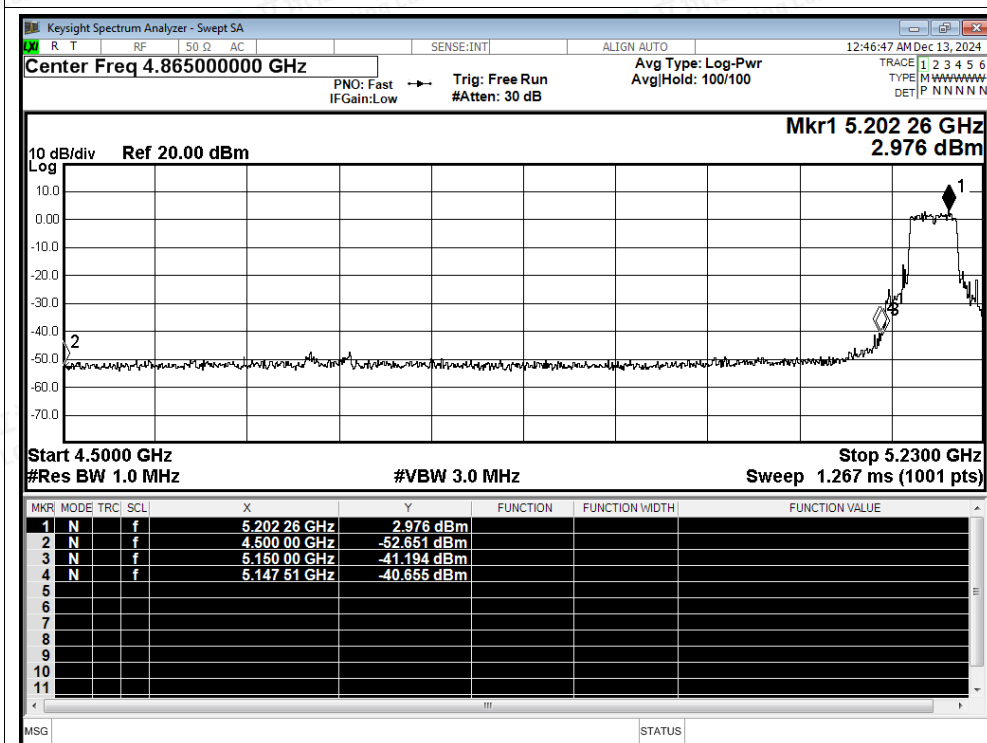


Restrict Band NVNT ac20 5240MHz Ant2 Average

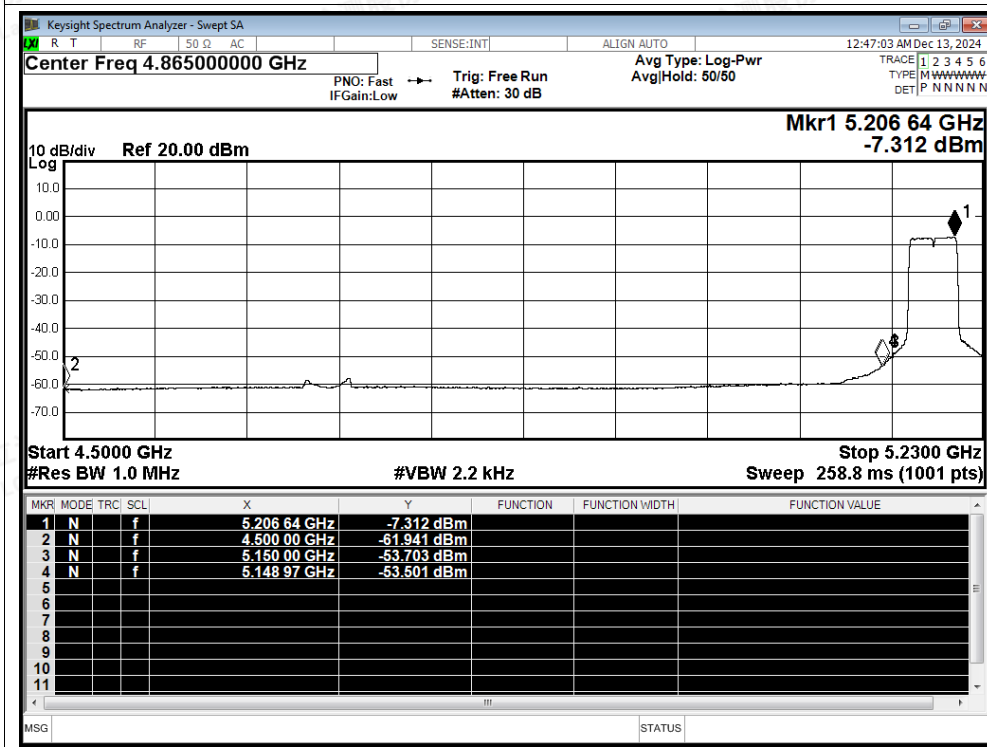




Restrict Band NVNT ac40 5190MHz Ant2 Peak

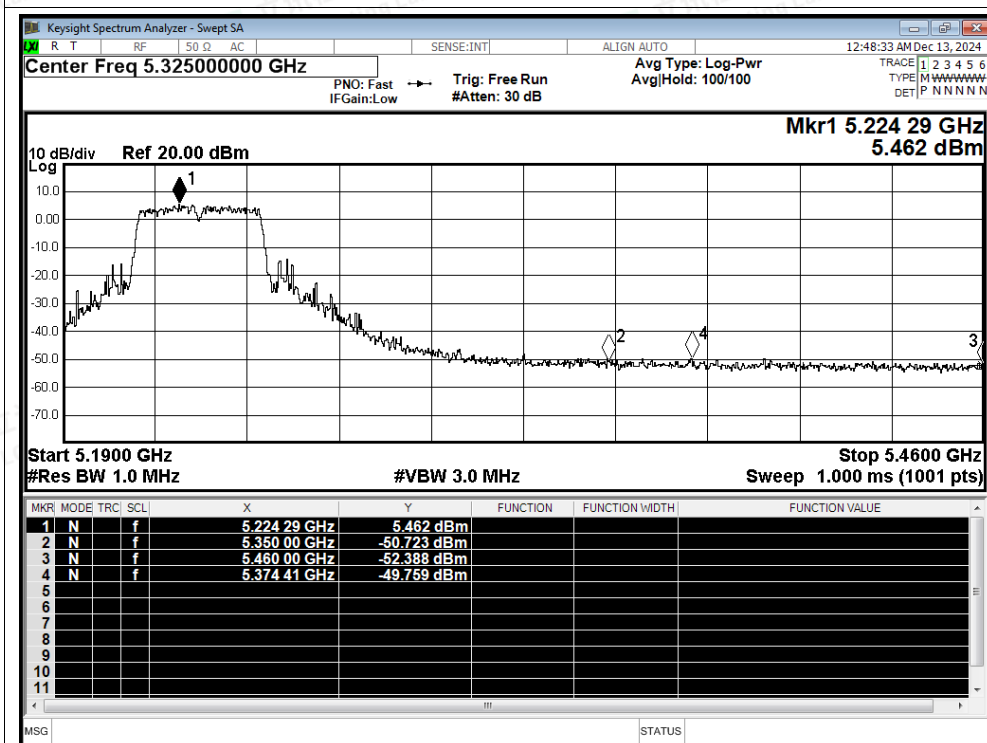


Restrict Band NVNT ac40 5190MHz Ant2 Average

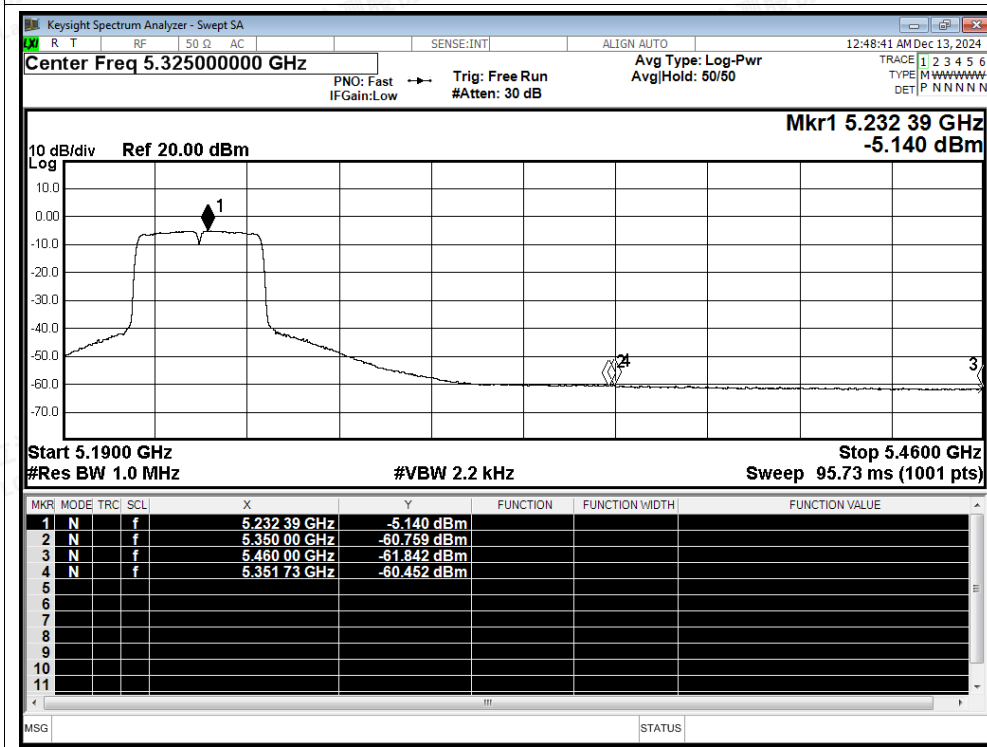




Restrict Band NVNT ac40 5230MHz Ant2 Peak

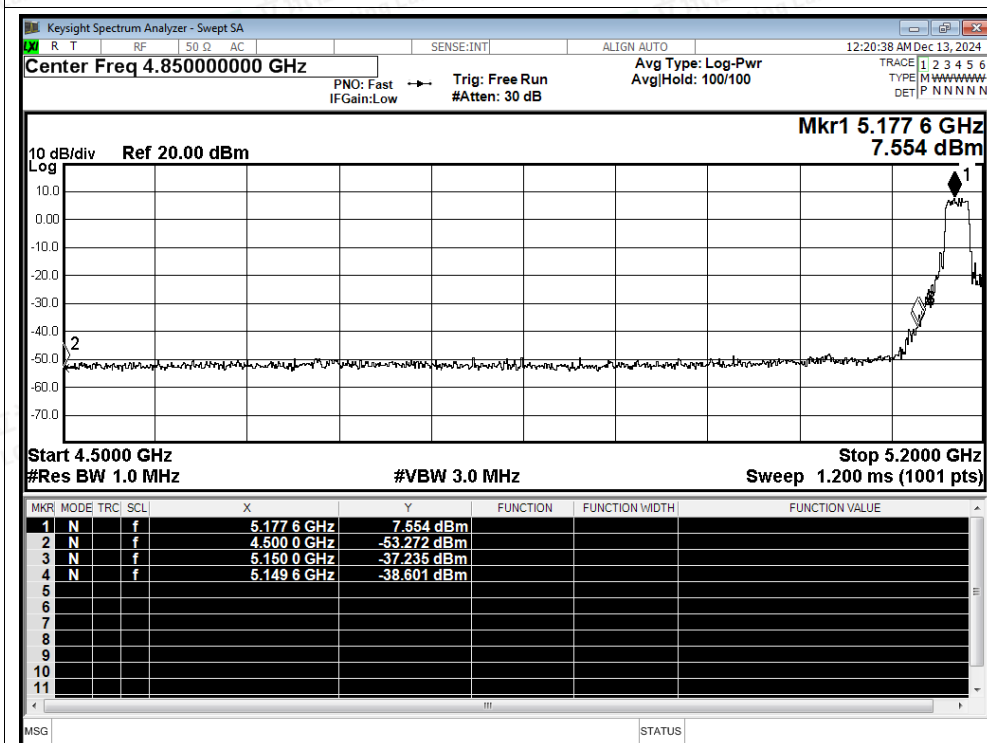


Restrict Band NVNT ac40 5230MHz Ant2 Average

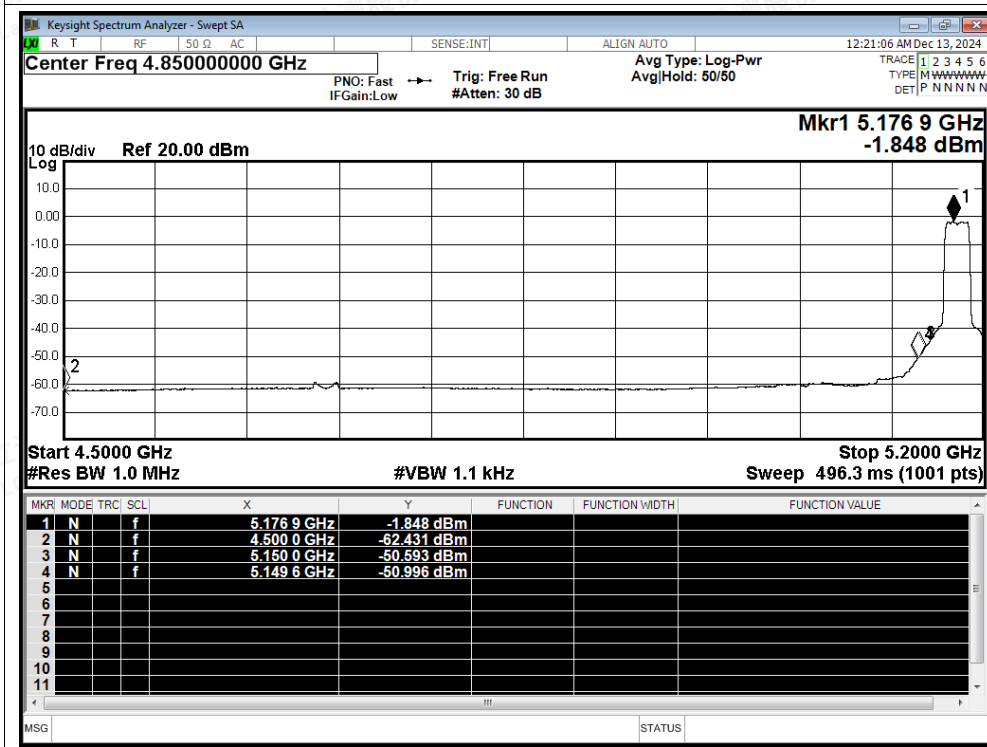




Restrict Band NVNT ax20 5180MHz Ant2 Peak

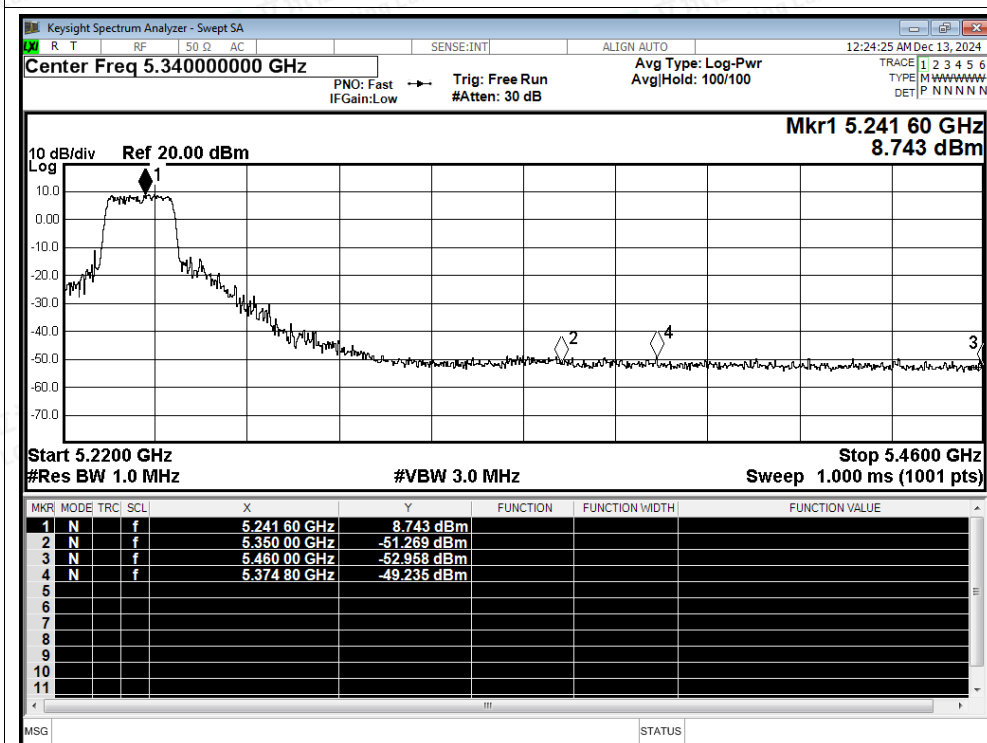


Restrict Band NVNT ax20 5180MHz Ant2 Average

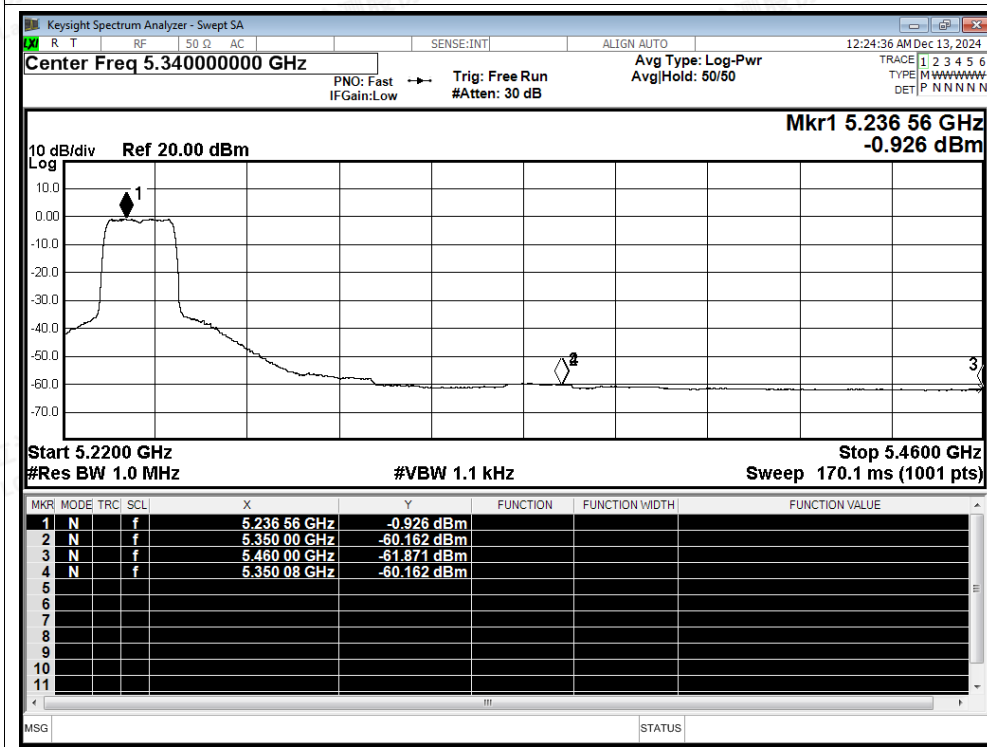




Restrict Band NVNT ax20 5240MHz Ant2 Peak



Restrict Band NVNT ax20 5240MHz Ant2 Average



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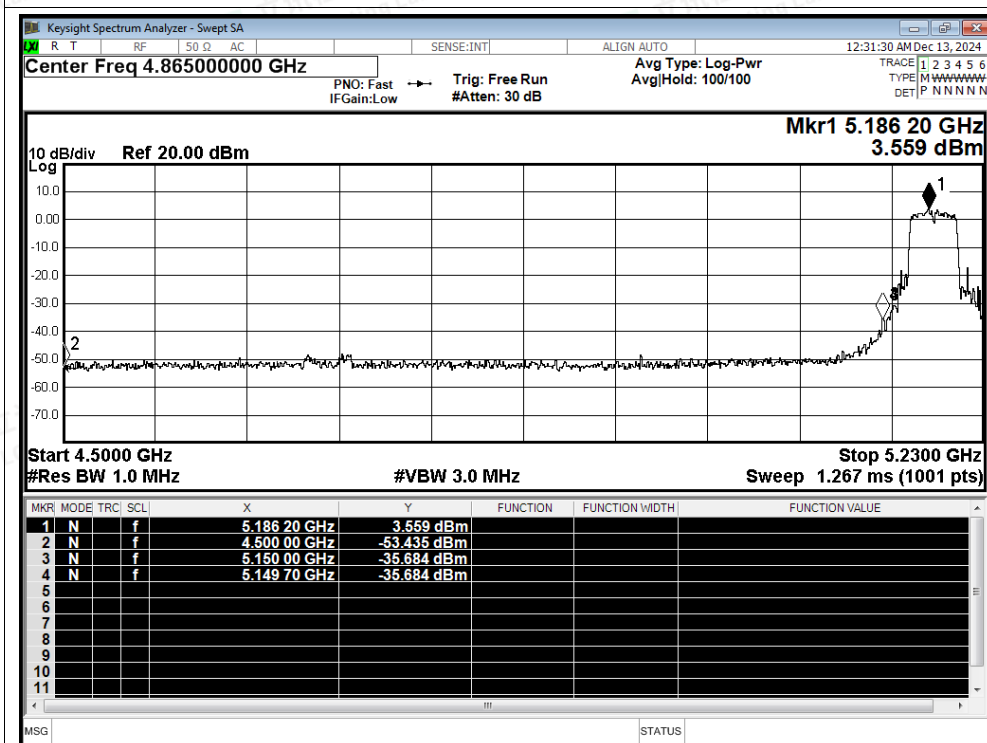
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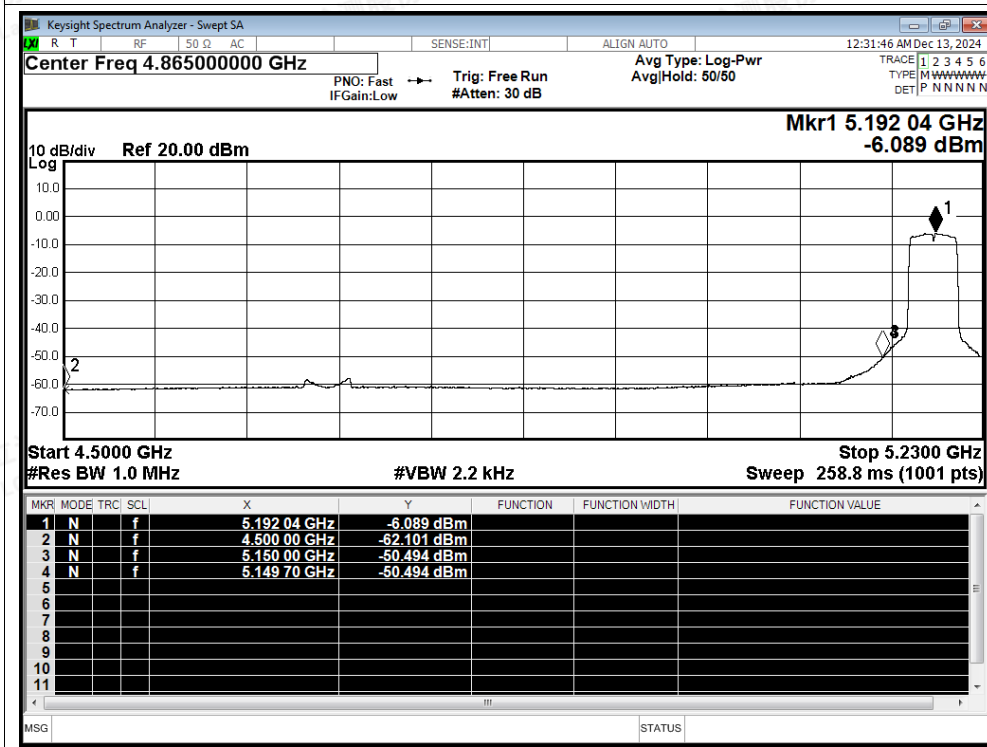
Scan code to check authenticity



Restrict Band NVNT ax40 5190MHz Ant2 Peak

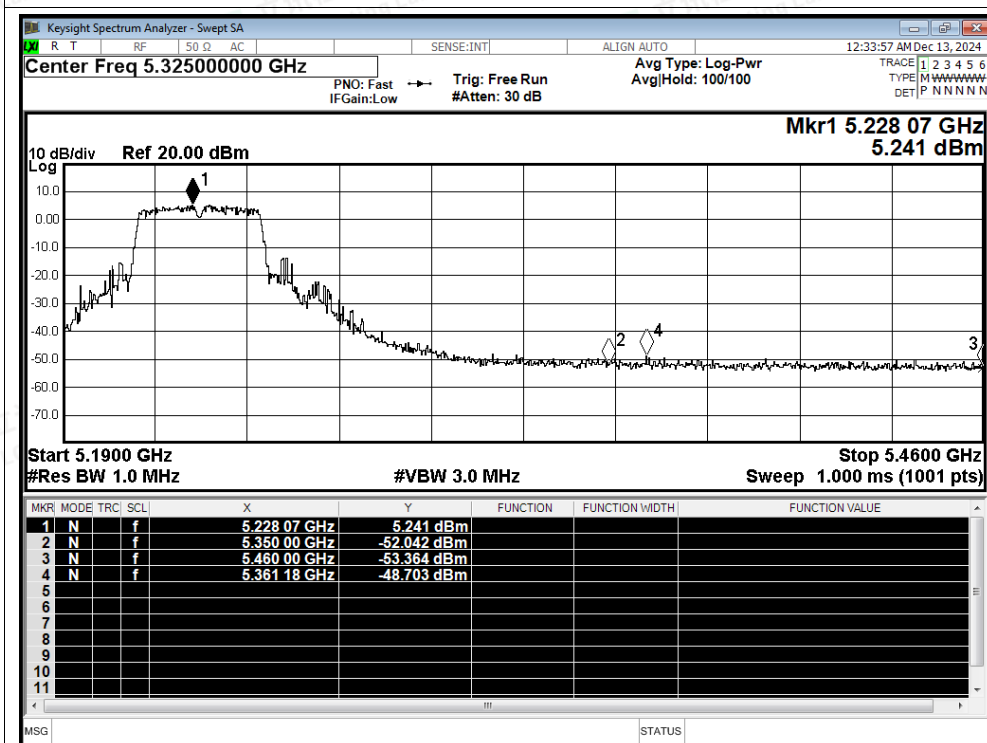


Restrict Band NVNT ax40 5190MHz Ant2 Average

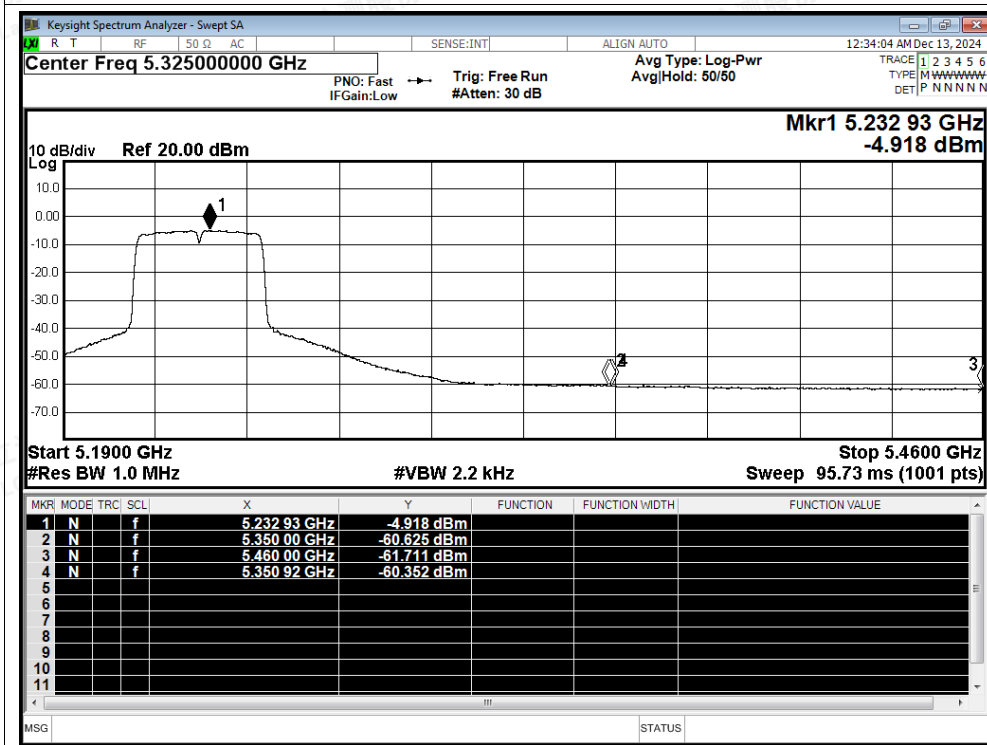




Restrict Band NVNT ax40 5230MHz Ant2 Peak



Restrict Band NVNT ax40 5230MHz Ant2 Average





D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant2	5190	0	0	25	Pass
NVNT	n40	5230	Ant2	5230	0	0	25	Pass
NVNT	ac20	5180	Ant2	5179.96	-40000	-7.72	25	Pass
NVNT	ac20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant2	5239.96	-40000	-7.63	25	Pass
NVNT	ac40	5190	Ant2	5190	0	0	25	Pass
NVNT	ac40	5230	Ant2	5230	0	0	25	Pass

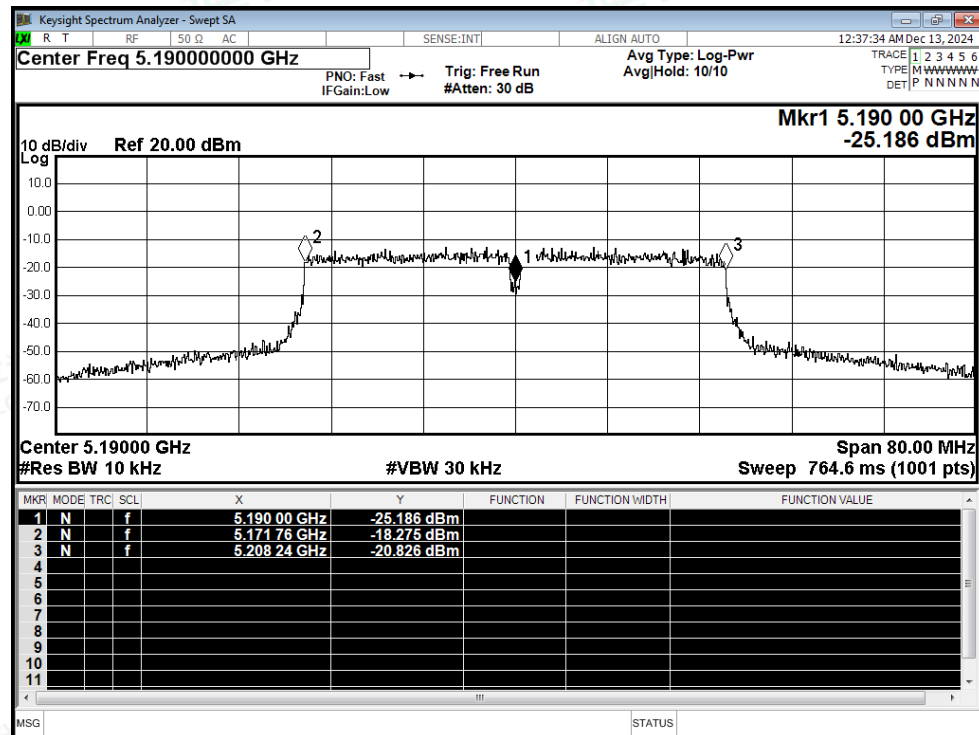


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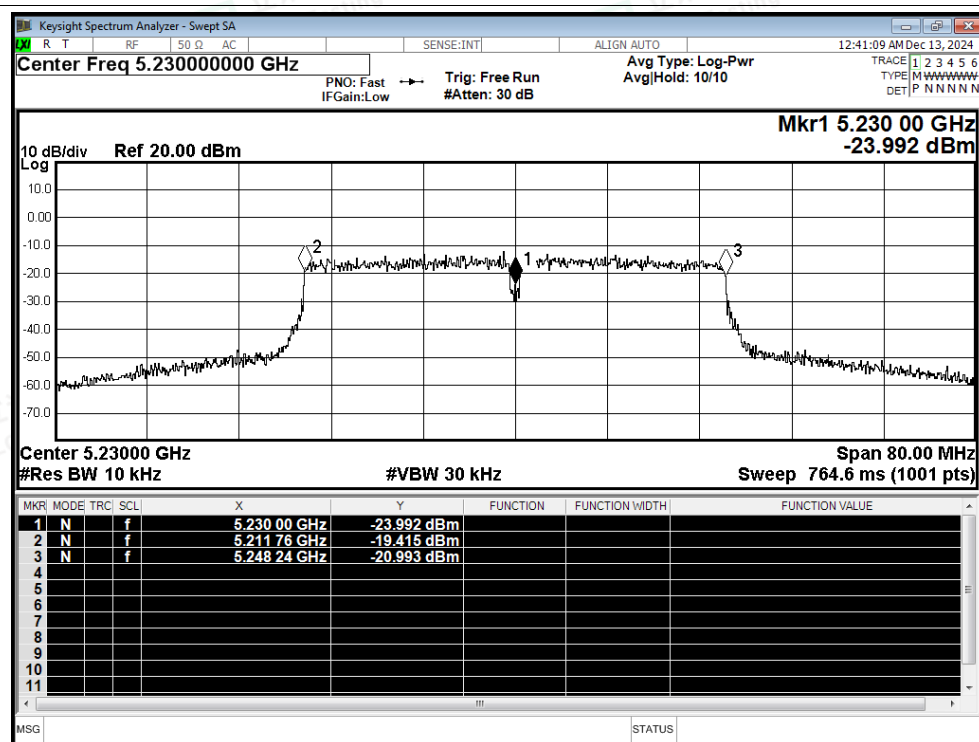


Test Graphs

Freq. Stability NVNT n40 5190MHz Ant2



Freq. Stability NVNT n40 5230MHz Ant2

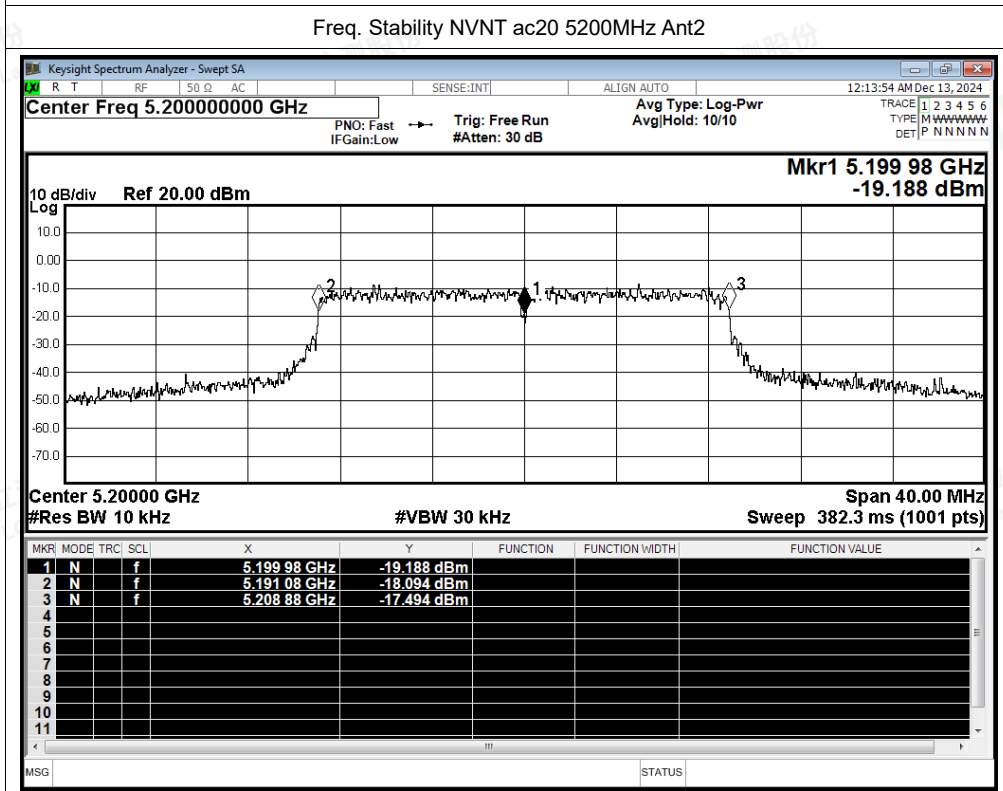
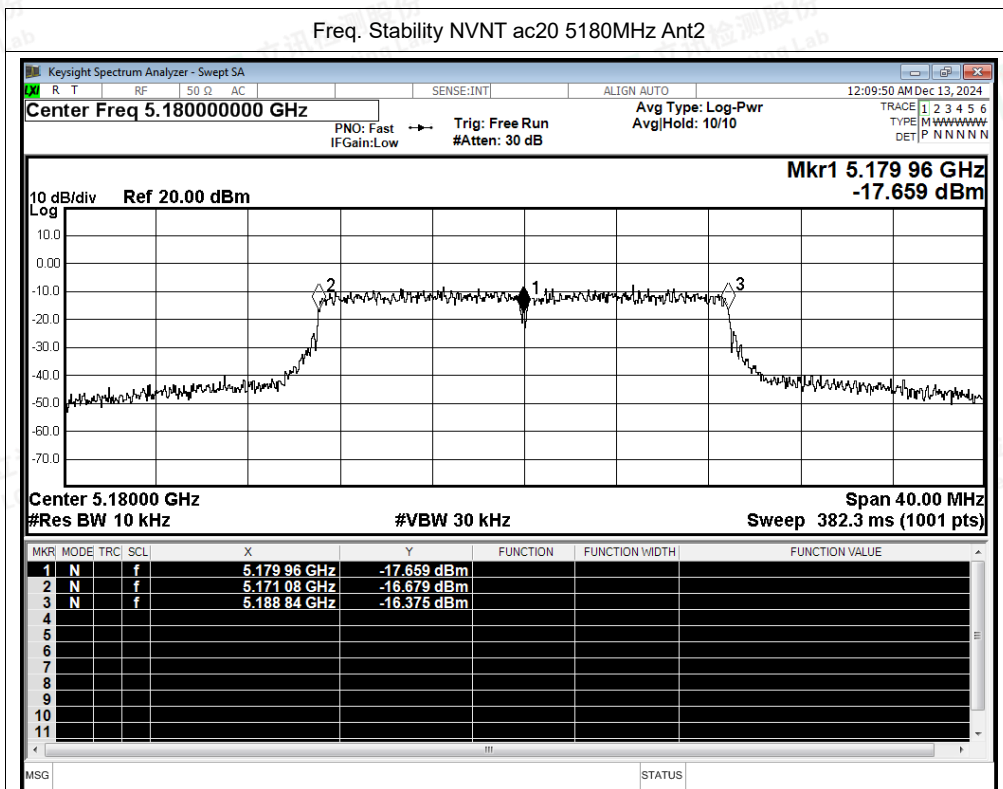


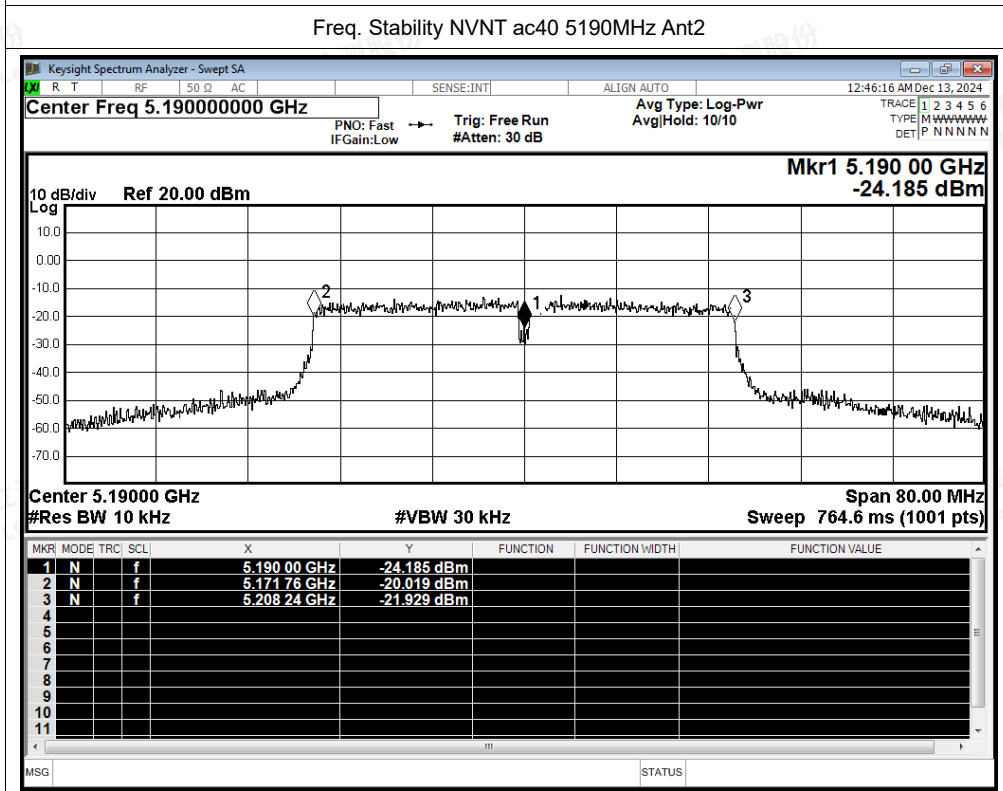
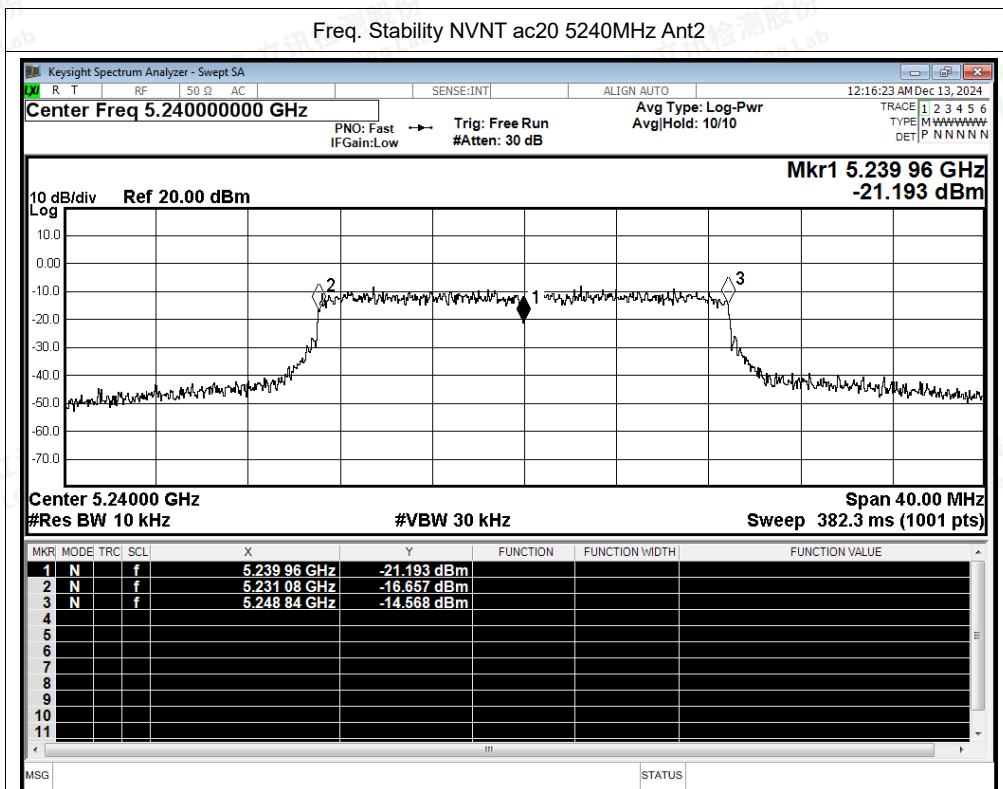
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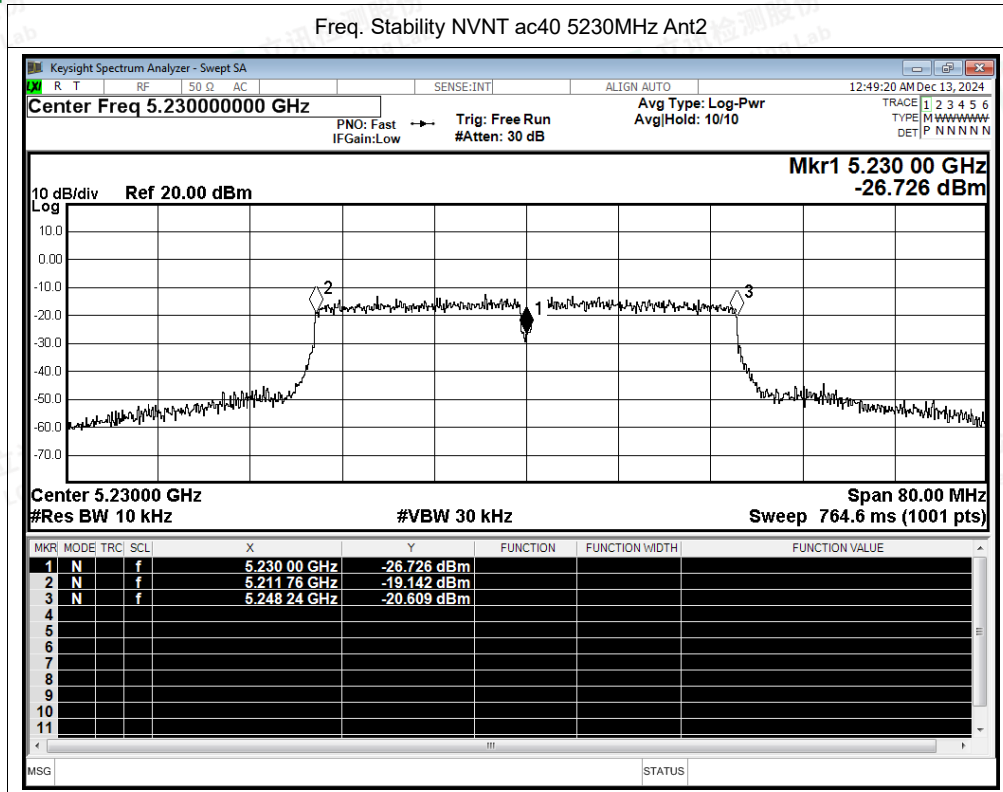
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D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant2	94.57	0.24	0.91
NVNT	a	5200	Ant2	94.56	0.24	0.91
NVNT	a	5240	Ant2	94.56	0.24	0.91
NVNT	n20	5180	Ant2	93.77	0.28	1.07
NVNT	n20	5200	Ant2	93.77	0.28	1.07
NVNT	n20	5240	Ant2	93.67	0.28	1.07
NVNT	n40	5190	Ant2	88.14	0.55	2.14
NVNT	n40	5230	Ant2	88.14	0.55	2.14
NVNT	ac20	5180	Ant2	93.82	0.28	1.06
NVNT	ac20	5200	Ant2	93.82	0.28	1.06
NVNT	ac20	5240	Ant2	93.72	0.28	1.06
NVNT	ac40	5190	Ant2	88.48	0.53	2.1
NVNT	ac40	5230	Ant2	88.48	0.53	2.1
NVNT	ax20	5180	Ant2	93.72	0.28	1.06
NVNT	ax20	5200	Ant2	93.72	0.28	1.06
NVNT	ax20	5240	Ant2	93.72	0.28	1.06
NVNT	ax40	5190	Ant2	88.48	0.53	2.1
NVNT	ax40	5230	Ant2	88.48	0.53	2.1

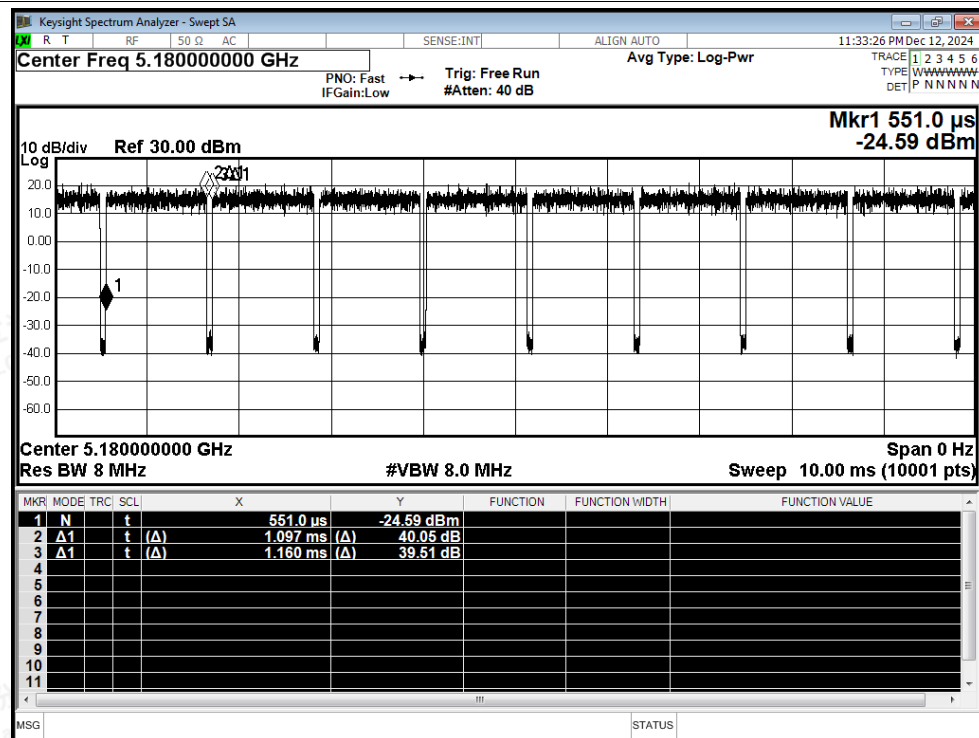


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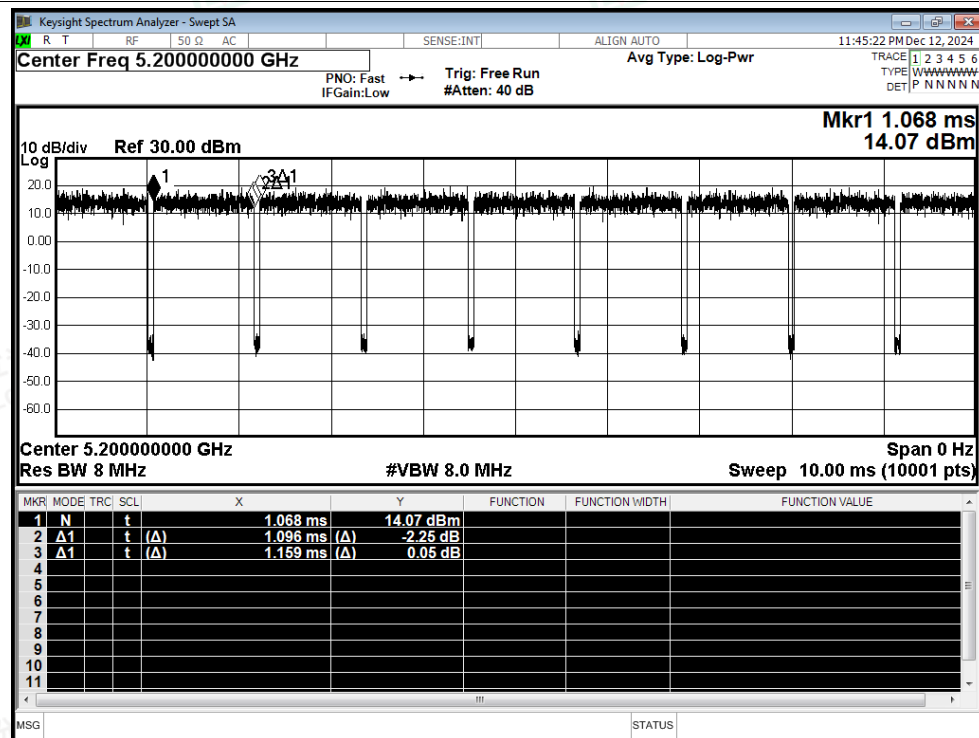


Test Graphs

Duty Cycle NVNT a 5180MHz Ant2

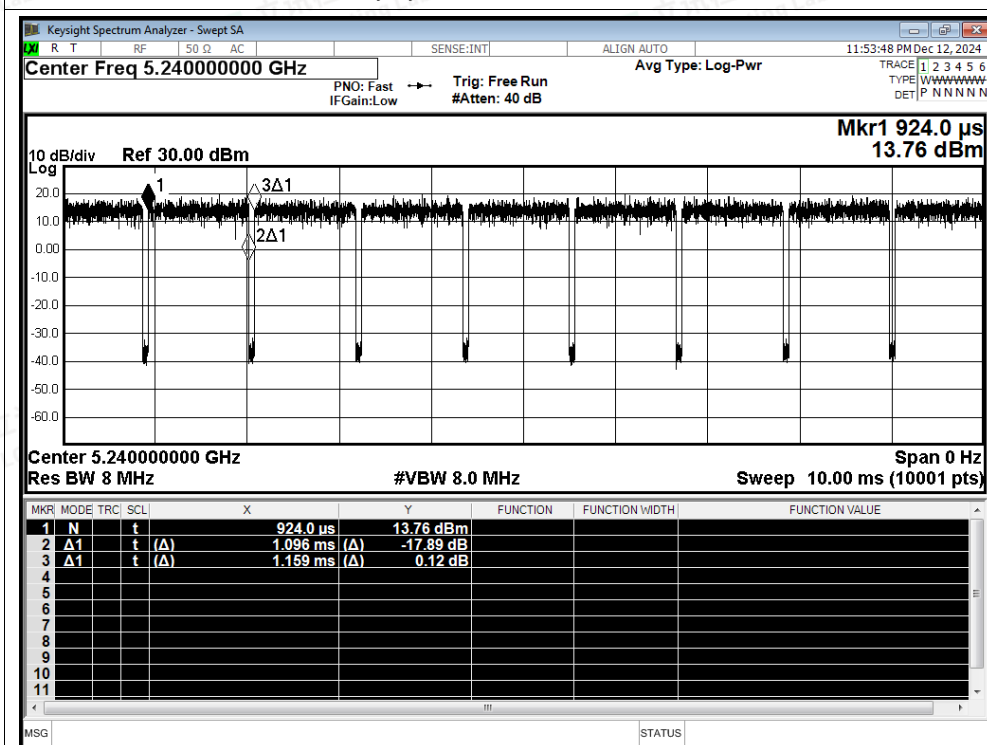


Duty Cycle NVNT a 5200MHz Ant2

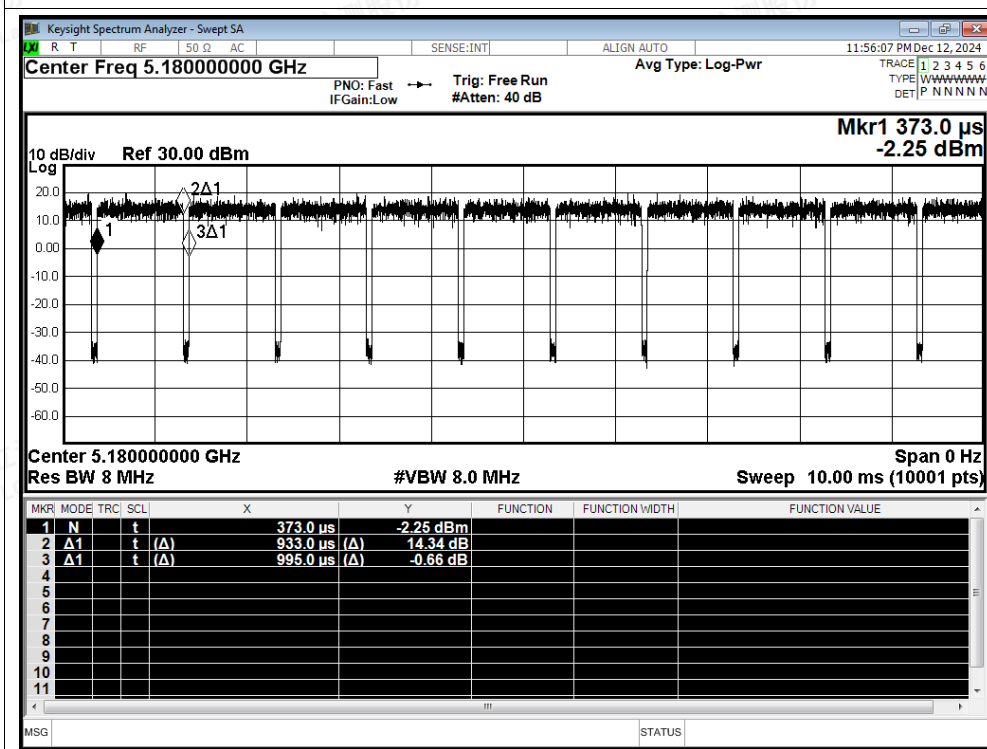




Duty Cycle NVNT a 5240MHz Ant2

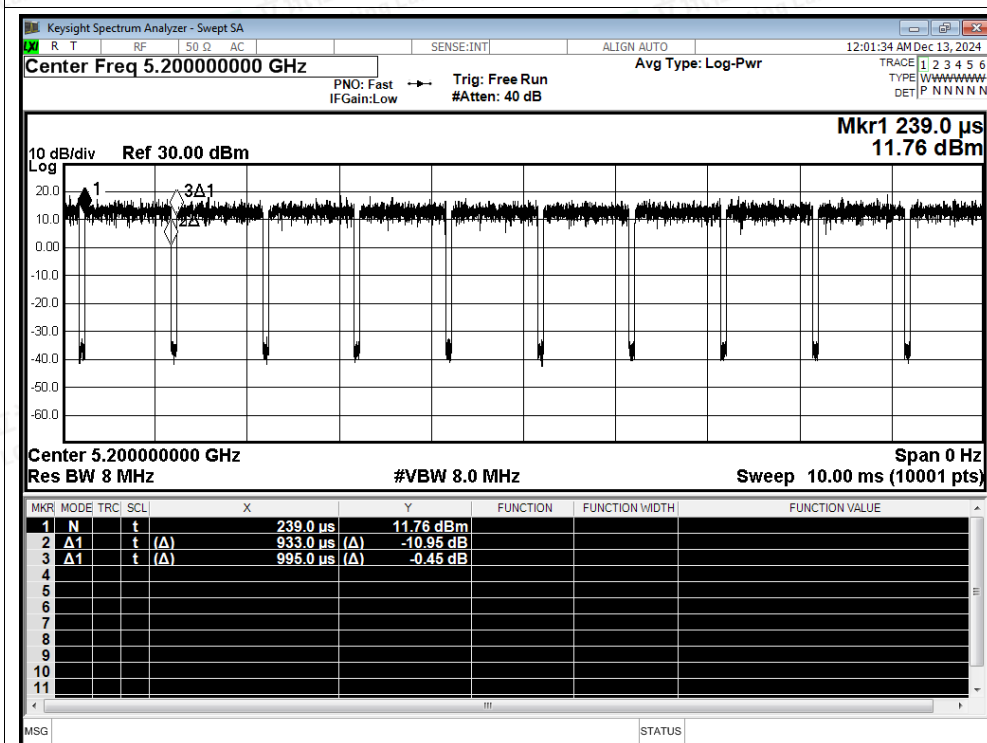


Duty Cycle NVNT n20 5180MHz Ant2

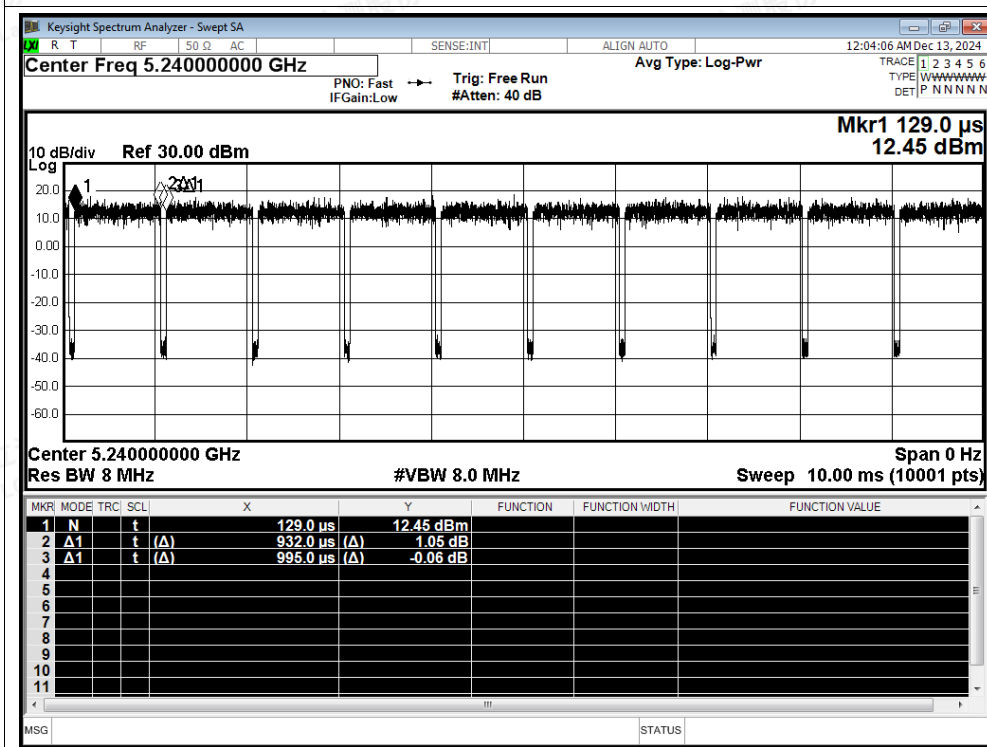




Duty Cycle NVNT n20 5200MHz Ant2

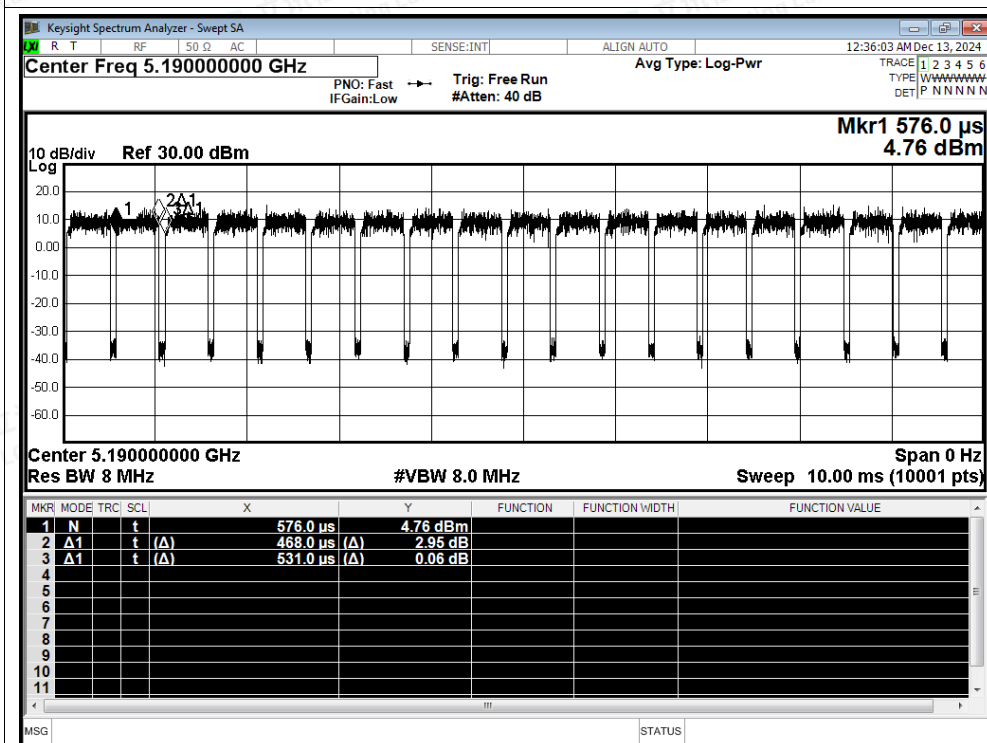


Duty Cycle NVNT n20 5240MHz Ant2

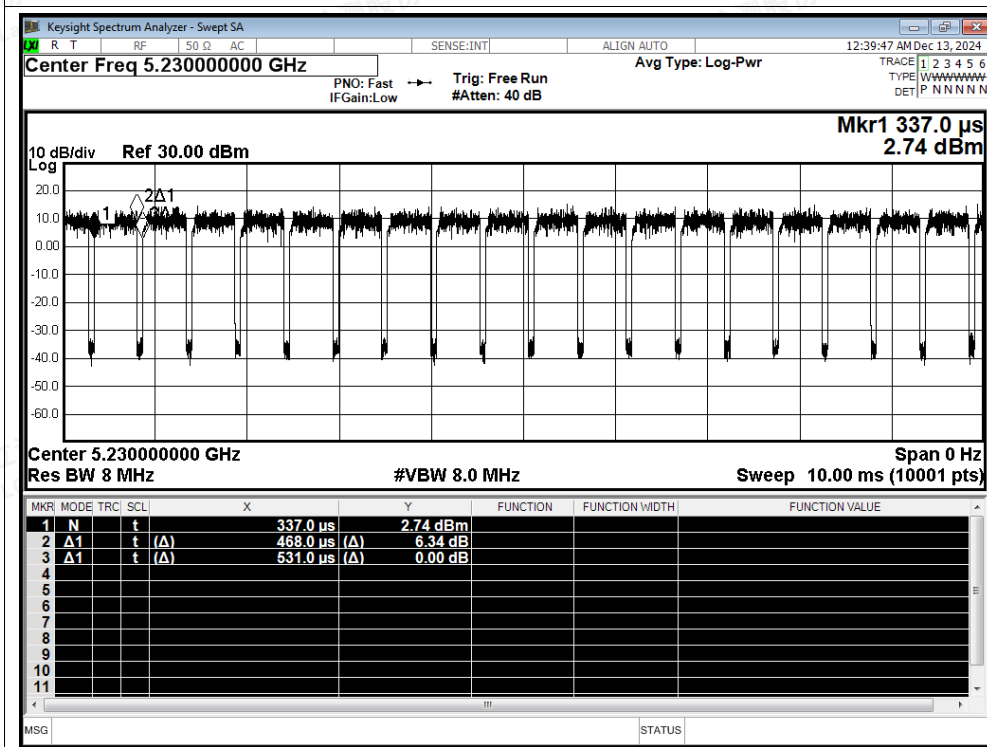




Duty Cycle NVNT n40 5190MHz Ant2



Duty Cycle NVNT n40 5230MHz Ant2



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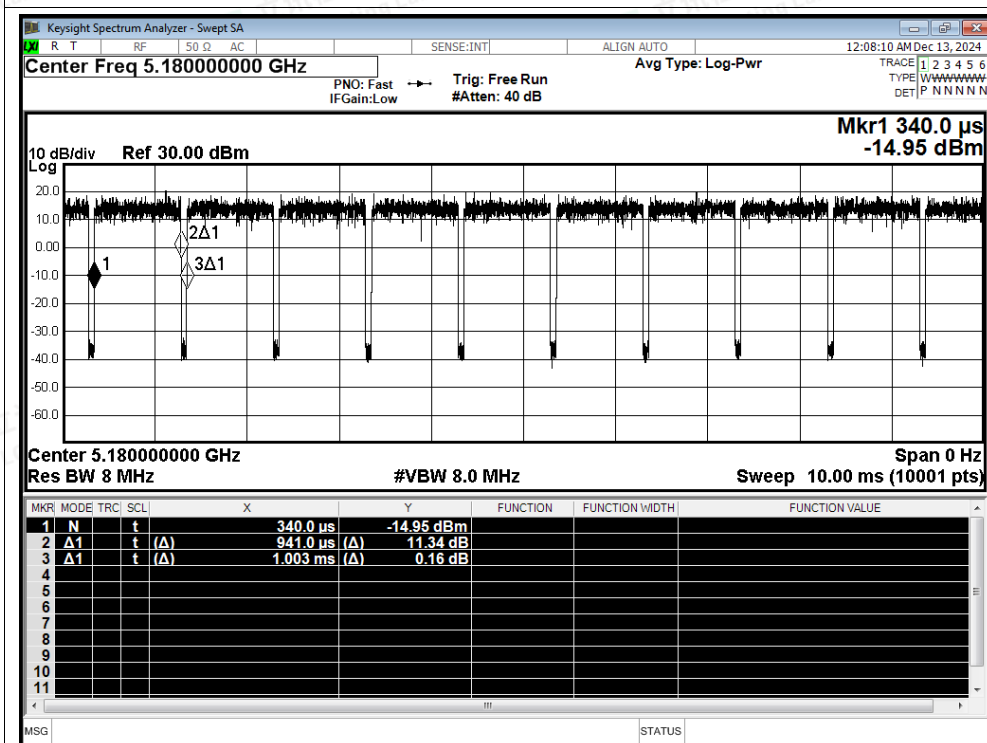
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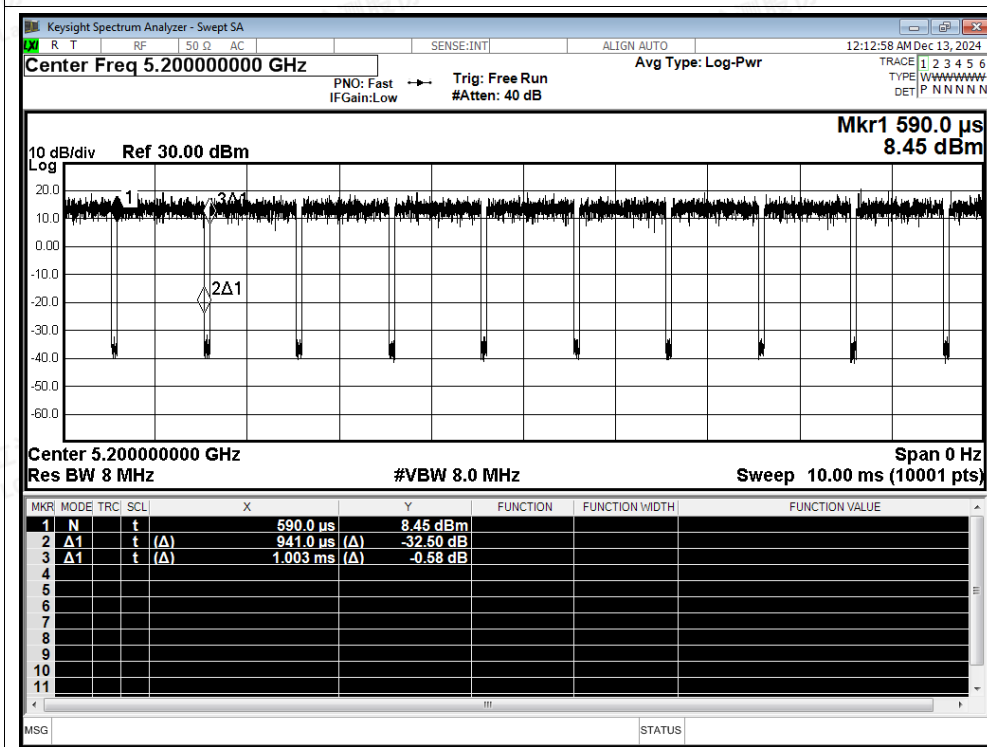
Scan code to check authenticity



Duty Cycle NVNT ac20 5180MHz Ant2

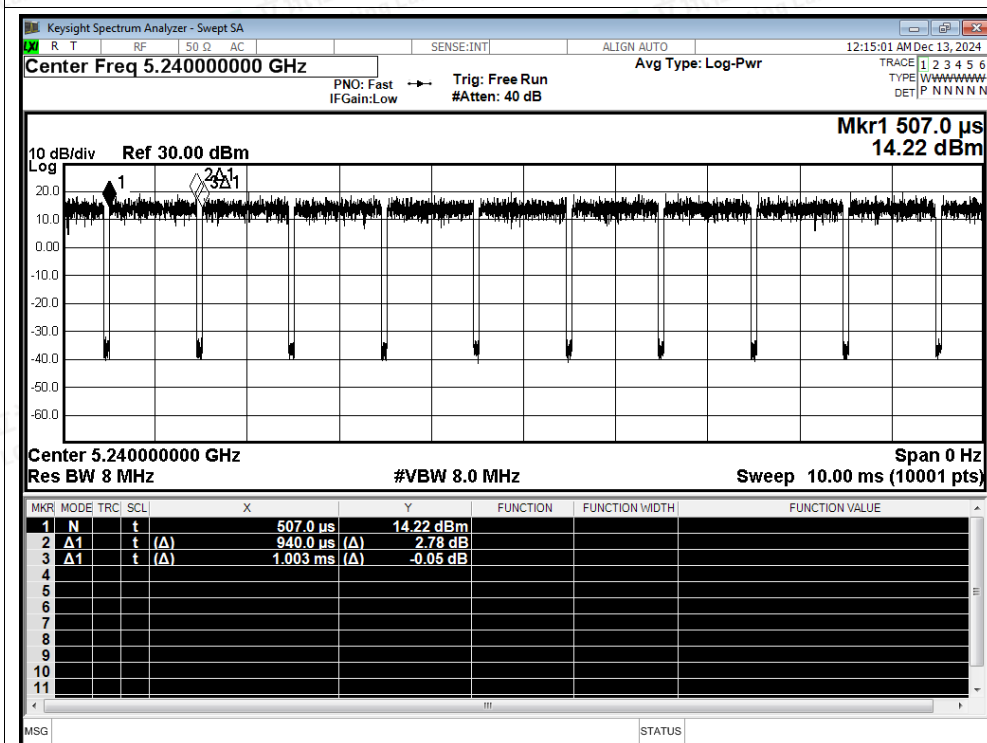


Duty Cycle NVNT ac20 5200MHz Ant2

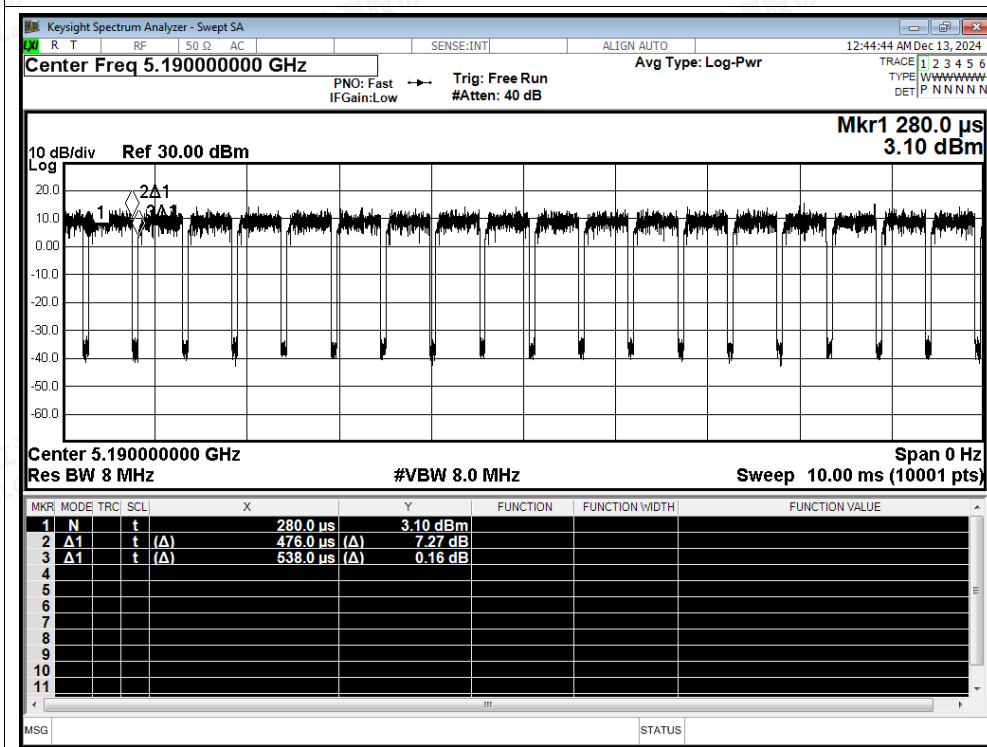




Duty Cycle NVNT ac20 5240MHz Ant2



Duty Cycle NVNT ac40 5190MHz Ant2



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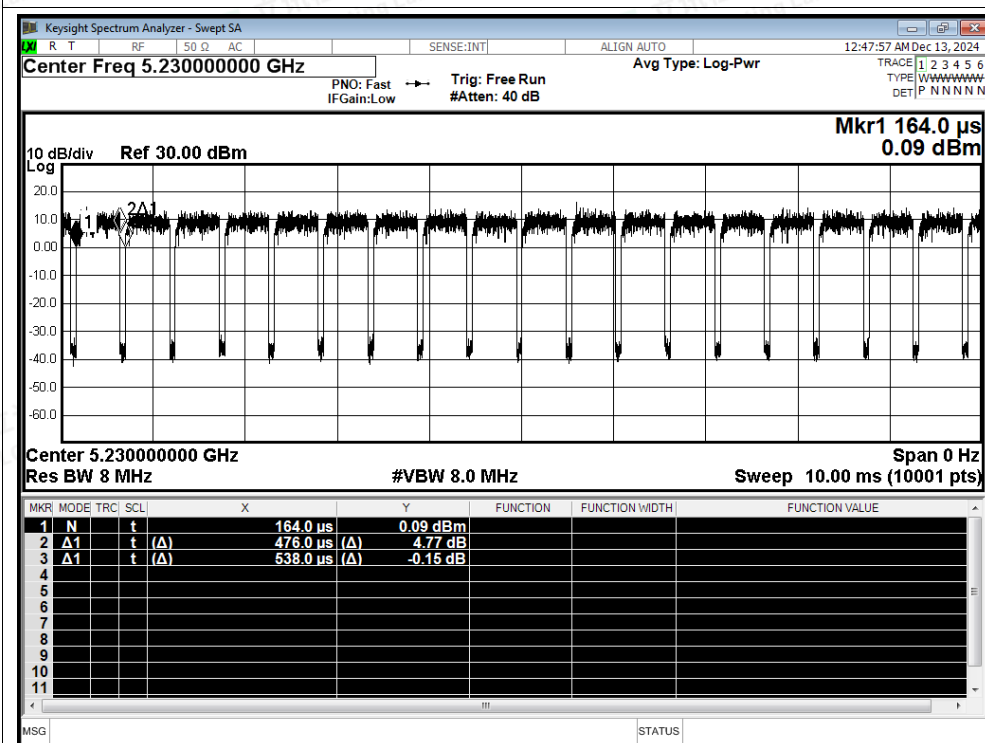
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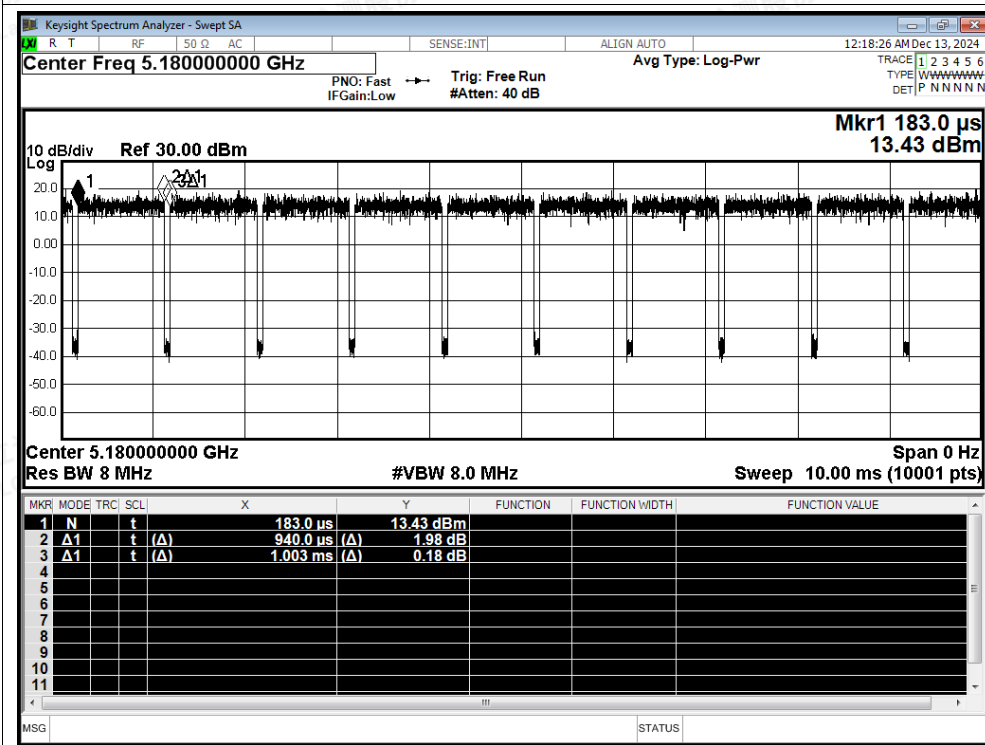
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Duty Cycle NVNT ac40 5230MHz Ant2

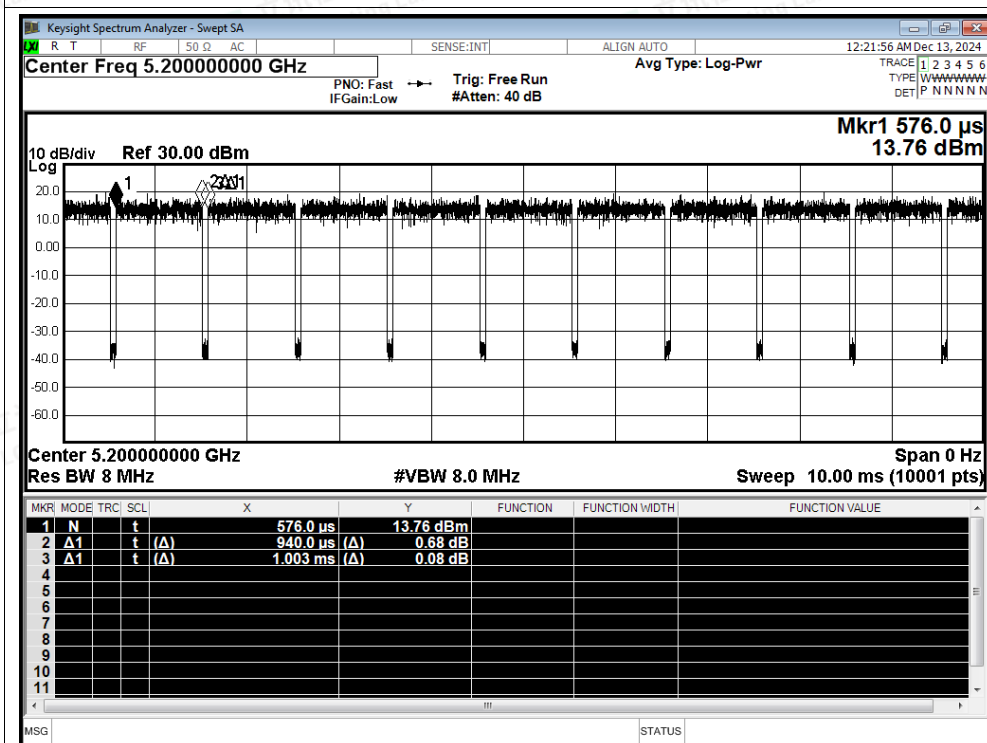


Duty Cycle NVNT ax20 5180MHz Ant2

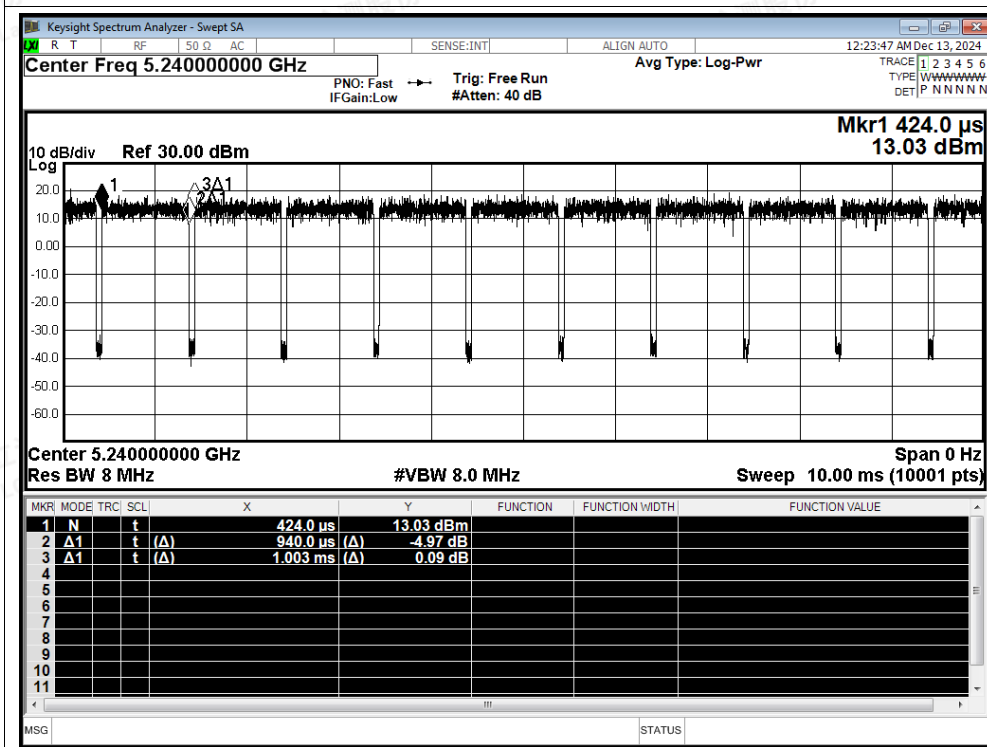




Duty Cycle NVNT ax20 5200MHz Ant2

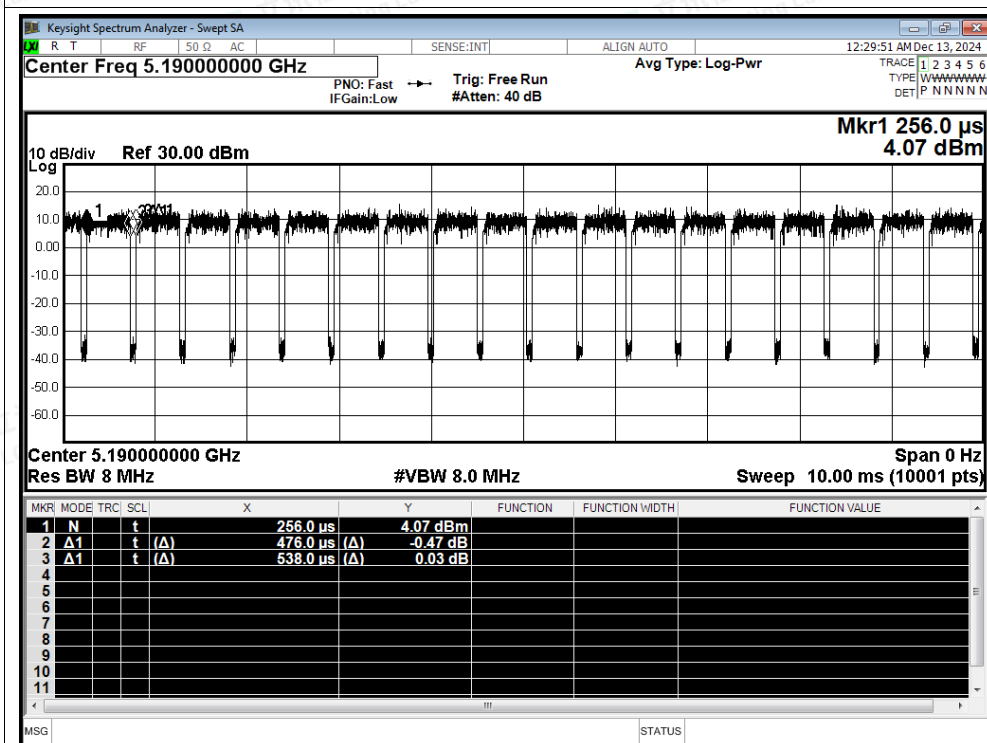


Duty Cycle NVNT ax20 5240MHz Ant2

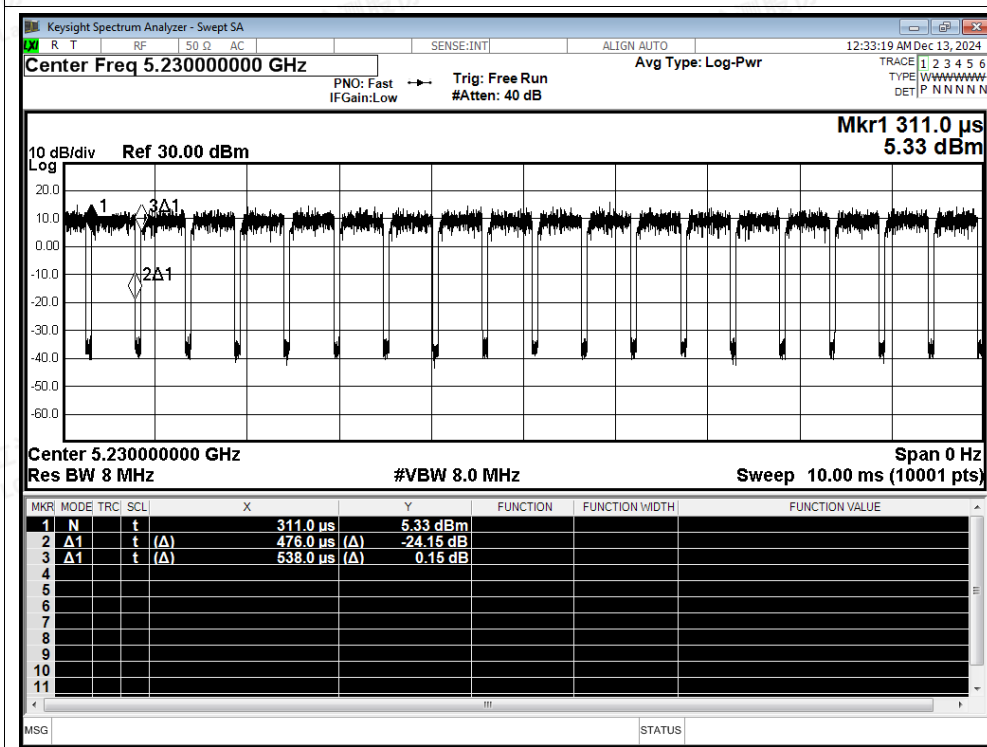




Duty Cycle NVNT ax40 5190MHz Ant2



Duty Cycle NVNT ax40 5230MHz Ant2



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