



## Appendix B

### RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Multi-function projector

Test Model: NeoPix 110

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





### B.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.34	$\geq 0.5$	Pass
NVNT	a	5200	Ant1	18.973	$\geq 0.5$	Pass
NVNT	a	5240	Ant1	19.18	$\geq 0.5$	Pass
NVNT	n20	5180	Ant1	19.992	$\geq 0.5$	Pass
NVNT	n20	5200	Ant1	19.897	$\geq 0.5$	Pass
NVNT	n20	5240	Ant1	19.748	$\geq 0.5$	Pass
NVNT	n40	5190	Ant1	37.852	$\geq 0.5$	Pass
NVNT	n40	5230	Ant1	37.768	$\geq 0.5$	Pass
NVNT	ac20	5180	Ant1	19.432	$\geq 0.5$	Pass
NVNT	ac20	5200	Ant1	19.856	$\geq 0.5$	Pass
NVNT	ac20	5240	Ant1	19.917	$\geq 0.5$	Pass
NVNT	ac40	5190	Ant1	37.811	$\geq 0.5$	Pass
NVNT	ac40	5230	Ant1	37.779	$\geq 0.5$	Pass

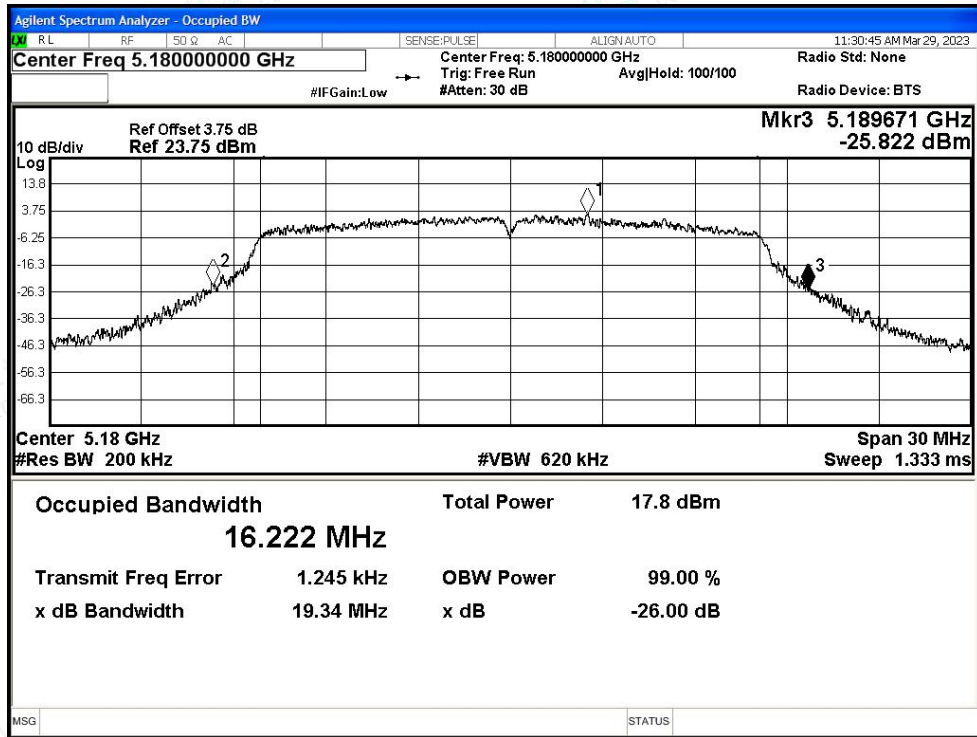


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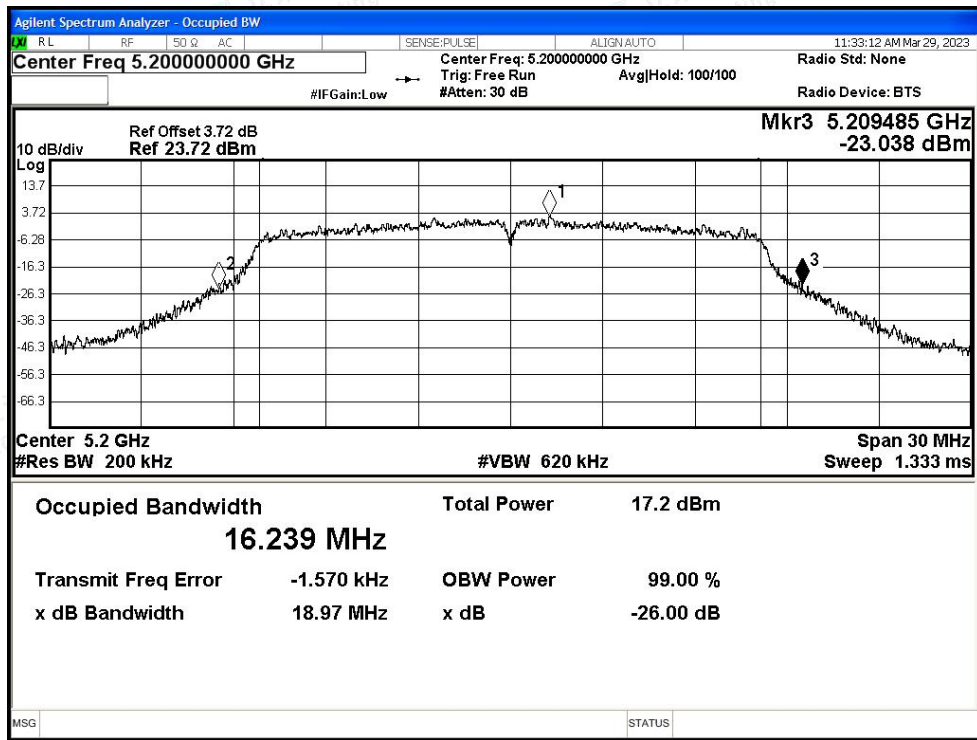


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

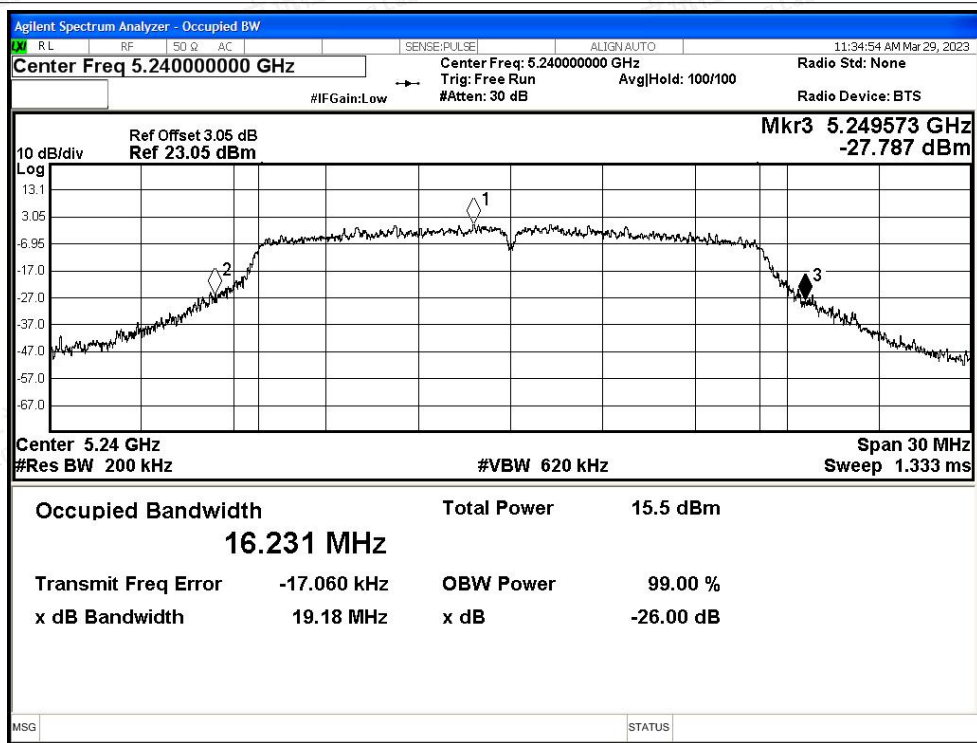


-26dB Bandwidth NVNT a 5200MHz Ant1

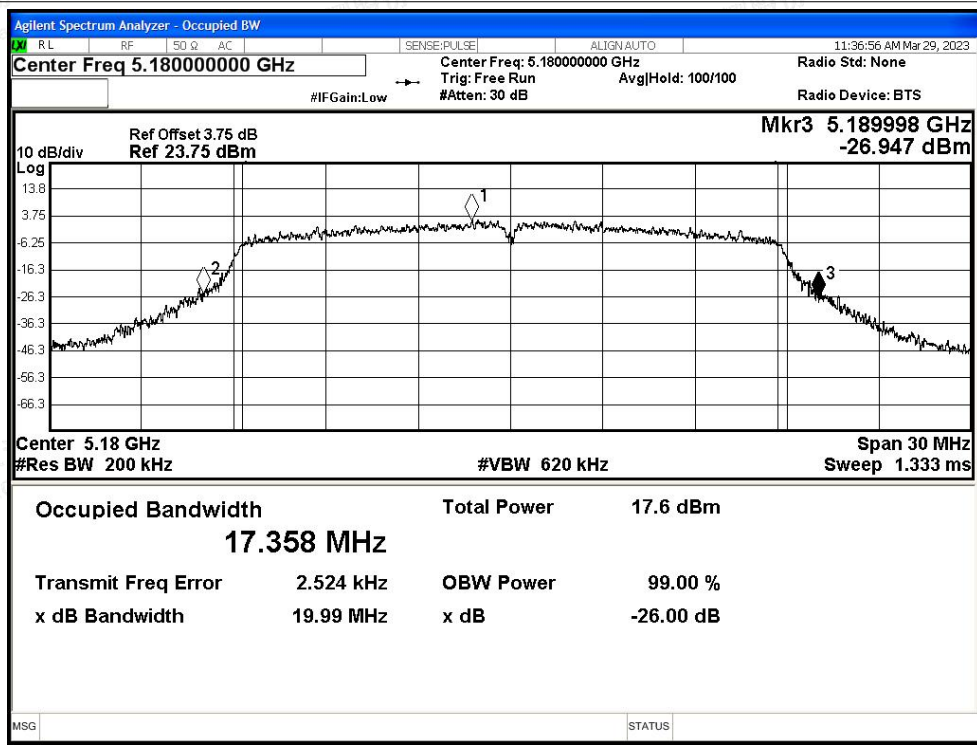




-26dB Bandwidth NVNT a 5240MHz Ant1

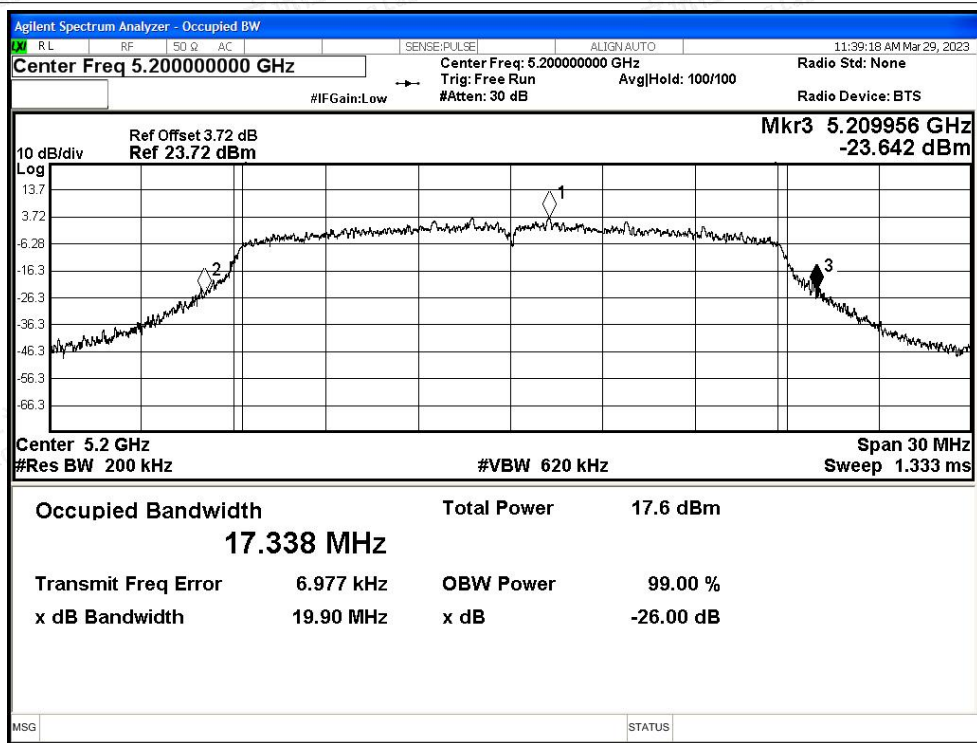


-26dB Bandwidth NVNT n20 5180MHz Ant1

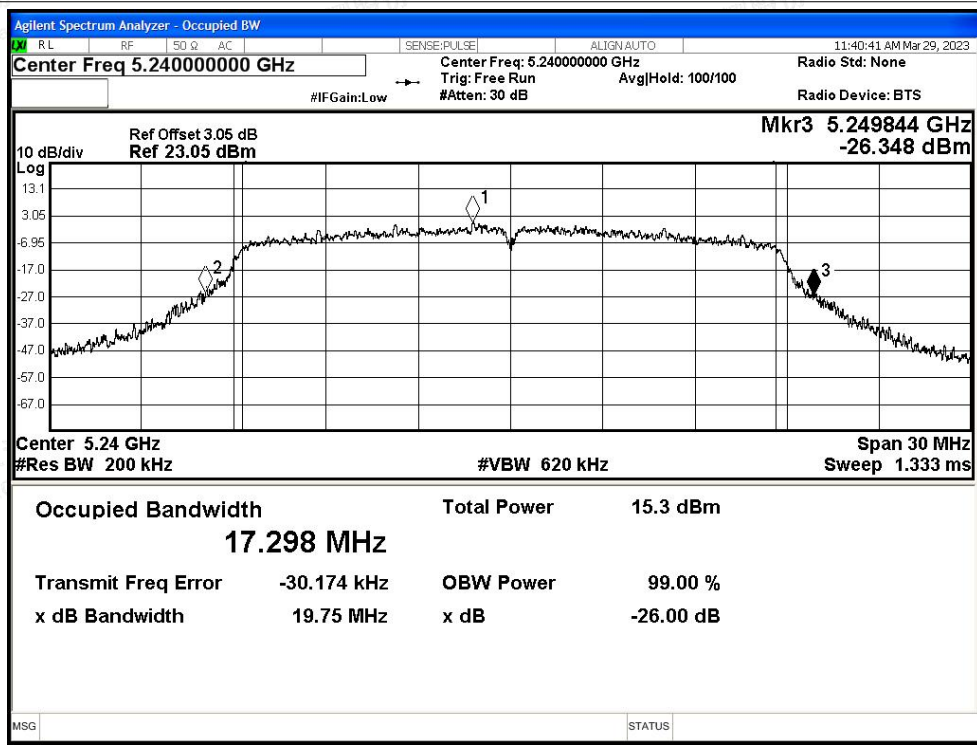




-26dB Bandwidth NVNT n20 5200MHz Ant1

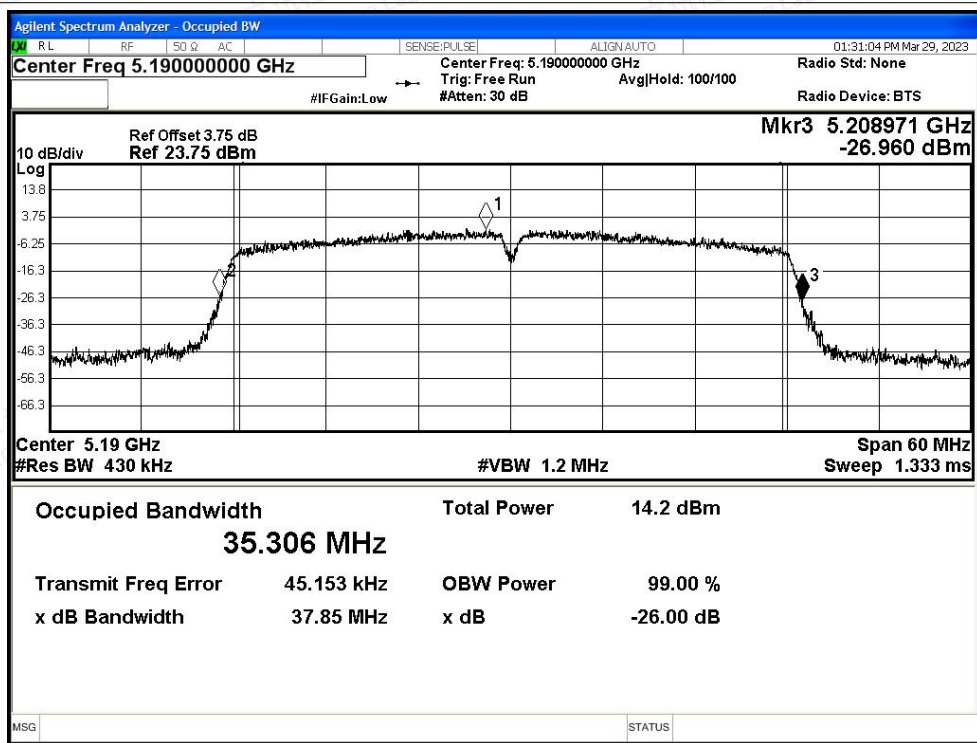


-26dB Bandwidth NVNT n20 5240MHz Ant1

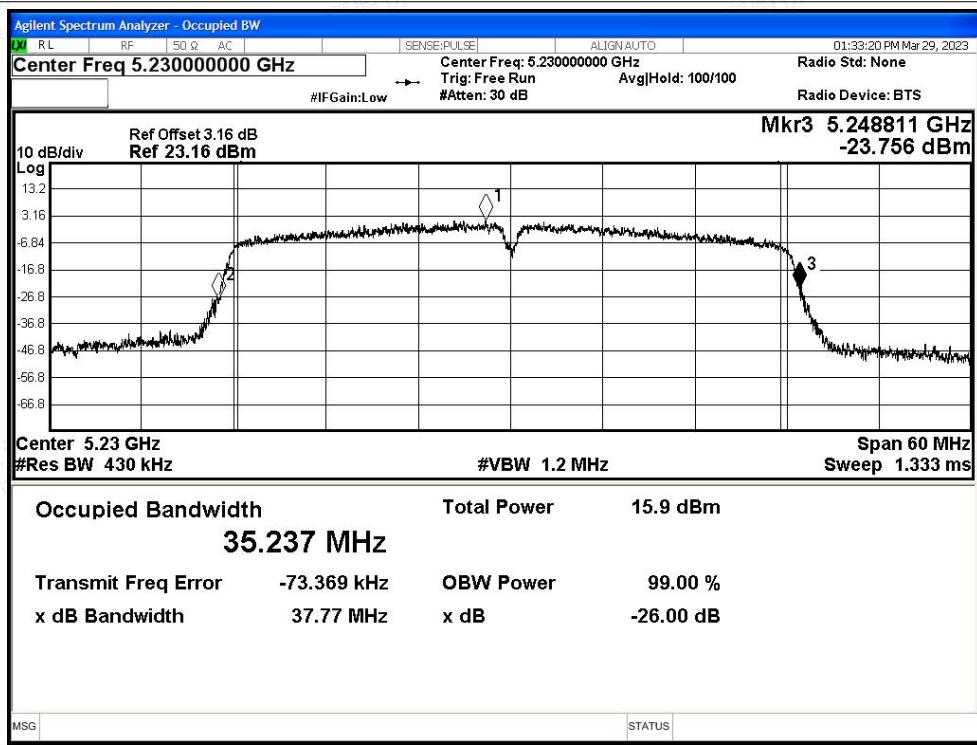




-26dB Bandwidth NVNT n40 5190MHz Ant1

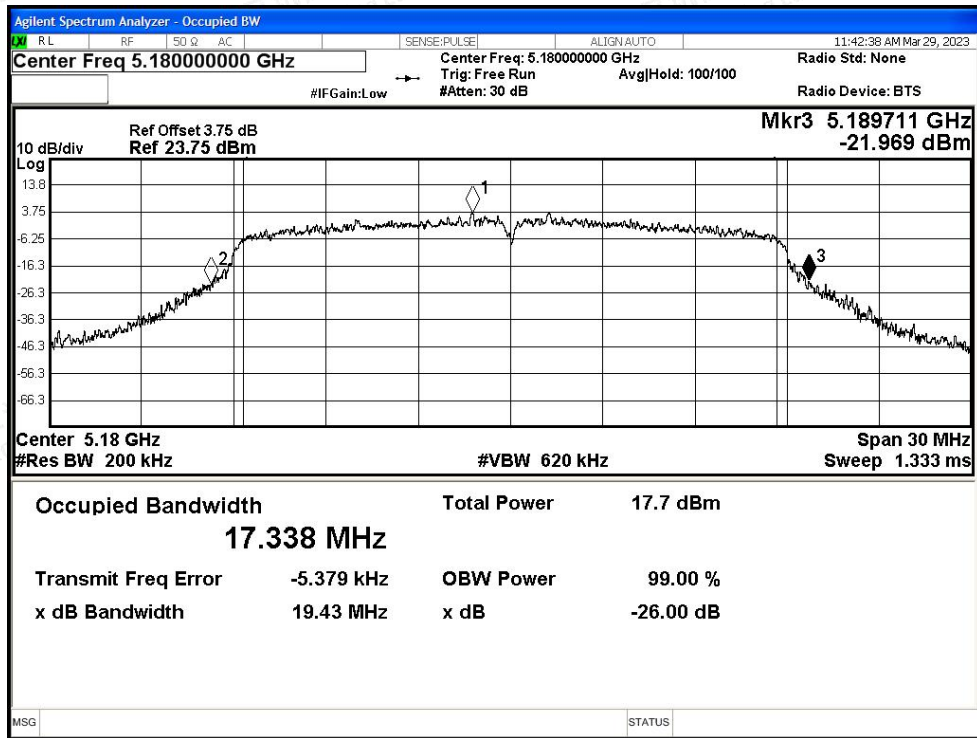


-26dB Bandwidth NVNT n40 5230MHz Ant1

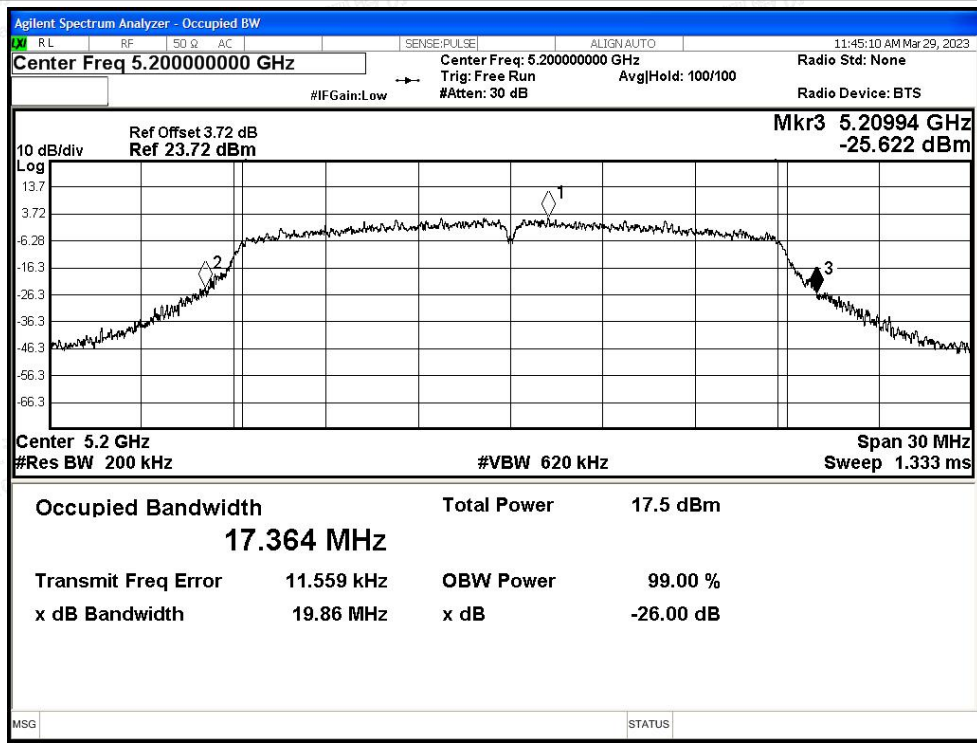




-26dB Bandwidth NVNT ac20 5180MHz Ant1

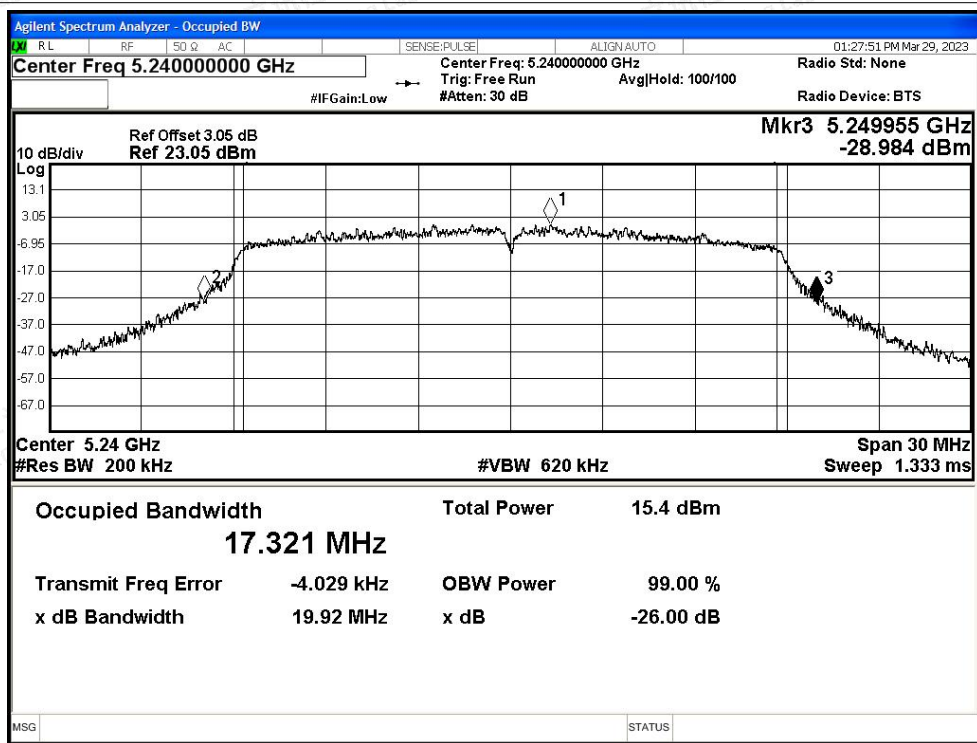


-26dB Bandwidth NVNT ac20 5200MHz Ant1

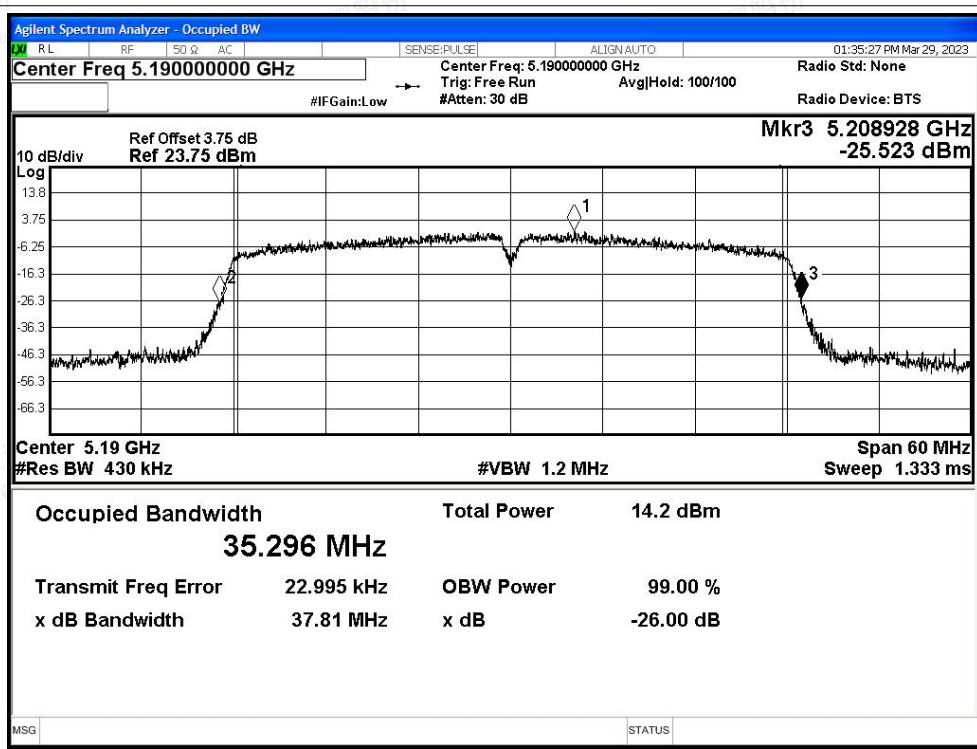




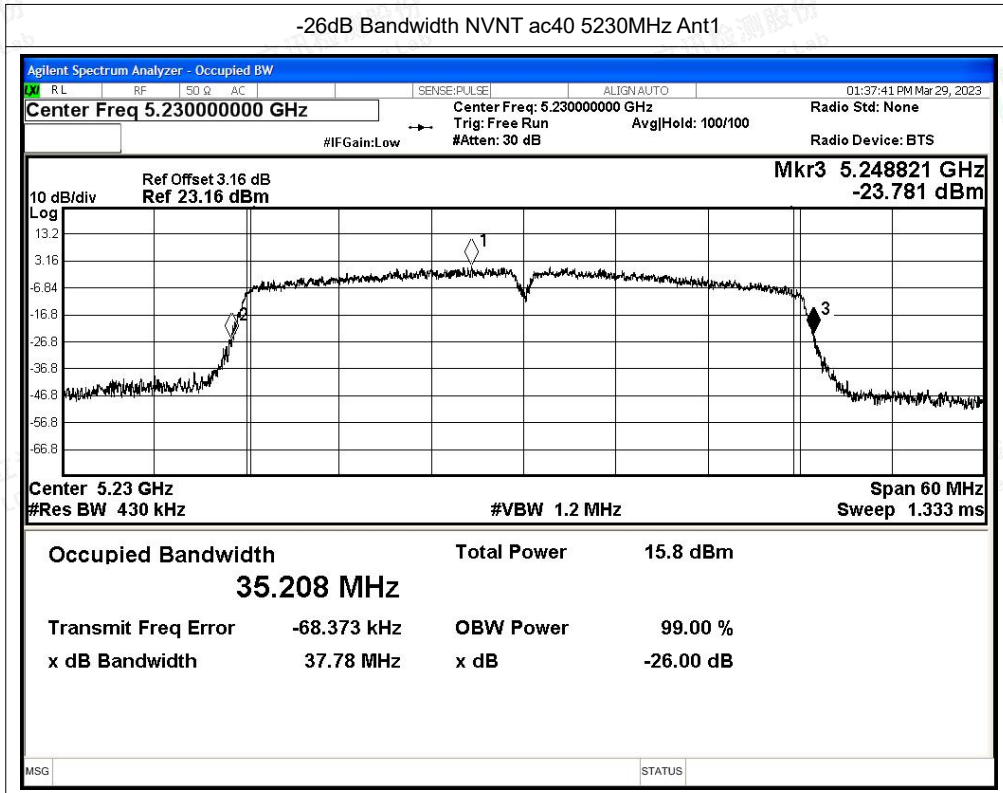
-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1









## B.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	Ant1	11.76	0.6	12.36	24	Pass
NVNT	a	5200	Ant1	11.13	4.19	15.32	24	Pass
NVNT	a	5240	Ant1	11.48	0.48	11.96	24	Pass
NVNT	n20	5180	Ant1	11.70	0.54	12.24	24	Pass
NVNT	n20	5200	Ant1	11.46	0.52	11.98	24	Pass
NVNT	n20	5240	Ant1	11.16	0.49	11.65	24	Pass
NVNT	n40	5190	Ant1	11.14	2.22	13.36	24	Pass
NVNT	n40	5230	Ant1	11.17	1.67	12.84	24	Pass
NVNT	ac20	5180	Ant1	11.38	0.73	12.11	24	Pass
NVNT	ac20	5200	Ant1	11.57	0.37	11.94	24	Pass
NVNT	ac20	5240	Ant1	11.77	0.58	12.35	24	Pass
NVNT	ac40	5190	Ant1	11.59	2.76	14.35	24	Pass
NVNT	ac40	5230	Ant1	11.53	2.54	14.07	24	Pass



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### B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-5.06	0.6	-4.46	11	Pass
NVNT	a	5200	Ant1	-2.98	4.19	1.21	11	Pass
NVNT	a	5240	Ant1	-5.23	0.48	-4.75	11	Pass
NVNT	n20	5180	Ant1	-4.53	0.54	-3.99	11	Pass
NVNT	n20	5200	Ant1	-5.69	0.52	-5.17	11	Pass
NVNT	n20	5240	Ant1	-7.16	0.49	-6.67	11	Pass
NVNT	n40	5190	Ant1	-22.27	2.22	-20.05	11	Pass
NVNT	n40	5230	Ant1	-21.22	1.67	-19.55	11	Pass
NVNT	ac20	5180	Ant1	-7.8	0.73	-7.07	11	Pass
NVNT	ac20	5200	Ant1	-6.56	0.37	-6.19	11	Pass
NVNT	ac20	5240	Ant1	-10.92	0.58	-10.34	11	Pass
NVNT	ac40	5190	Ant1	-26.78	2.76	-24.02	11	Pass
NVNT	ac40	5230	Ant1	-27.51	2.54	-24.97	11	Pass

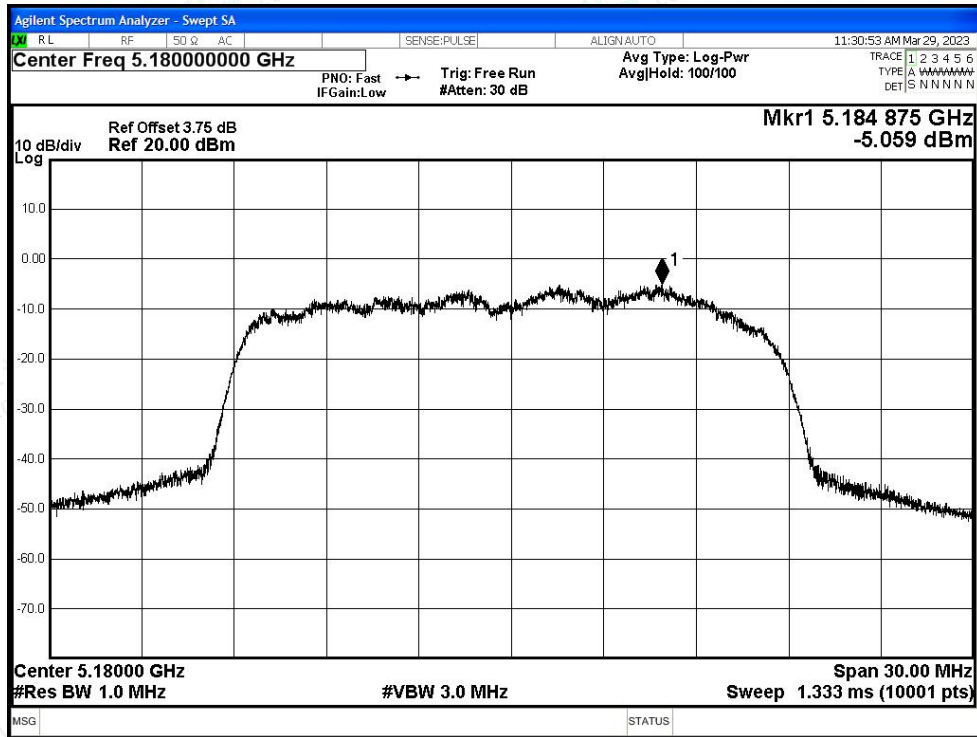


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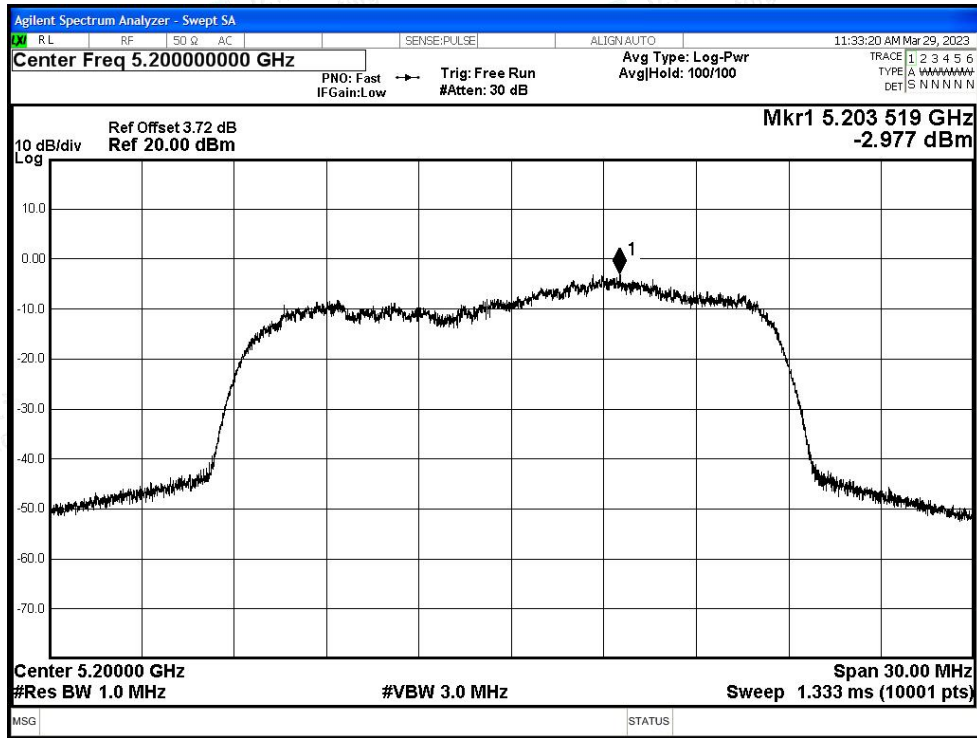


Test Graphs

PSD NVNT a 5180MHz Ant1

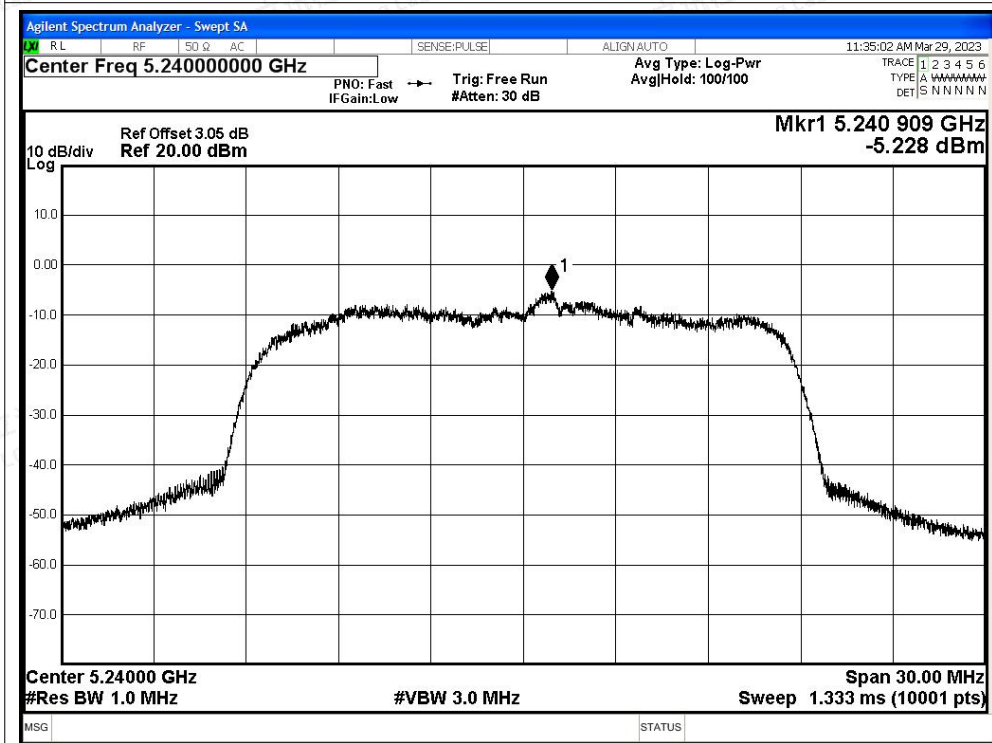


PSD NVNT a 5200MHz Ant1

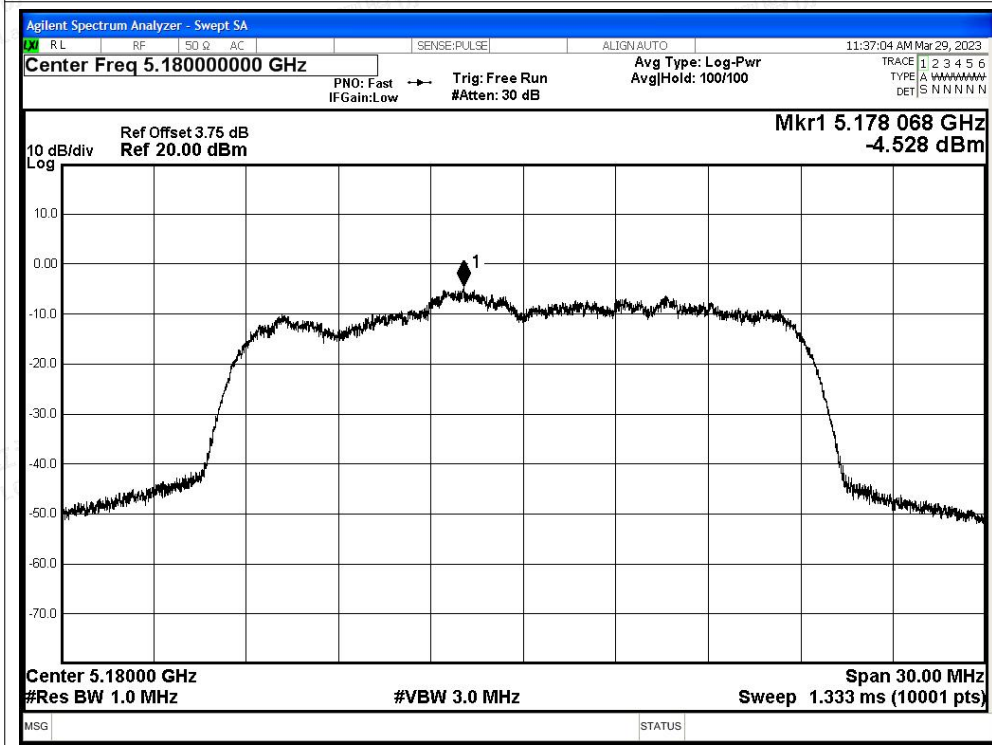


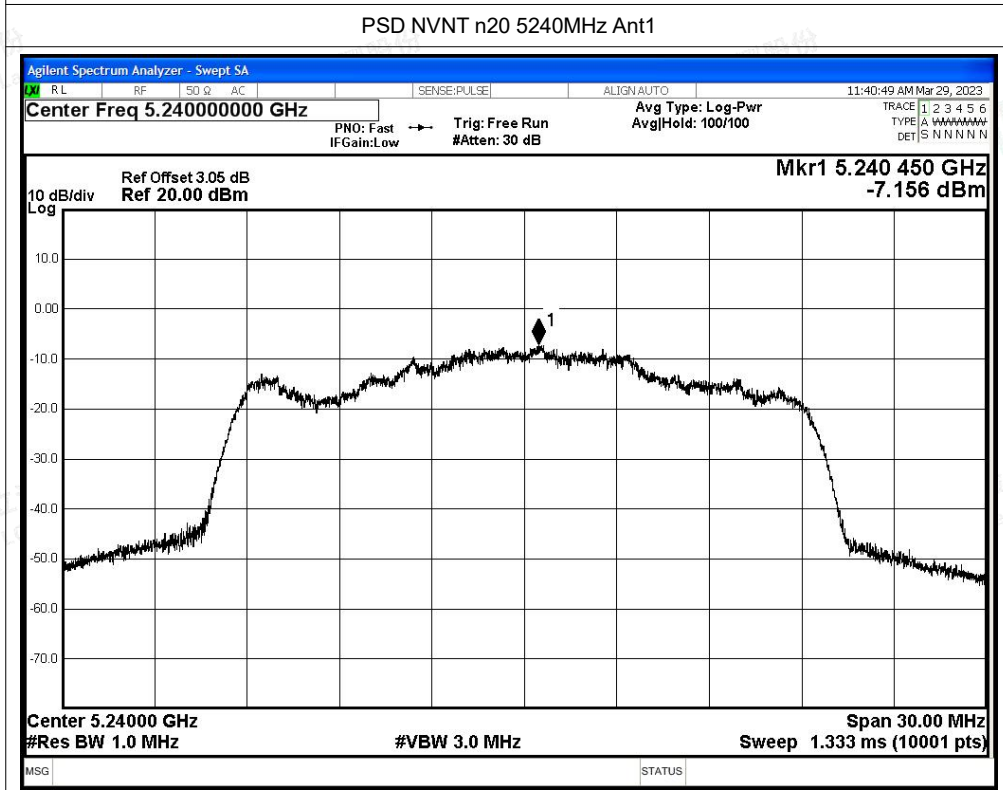
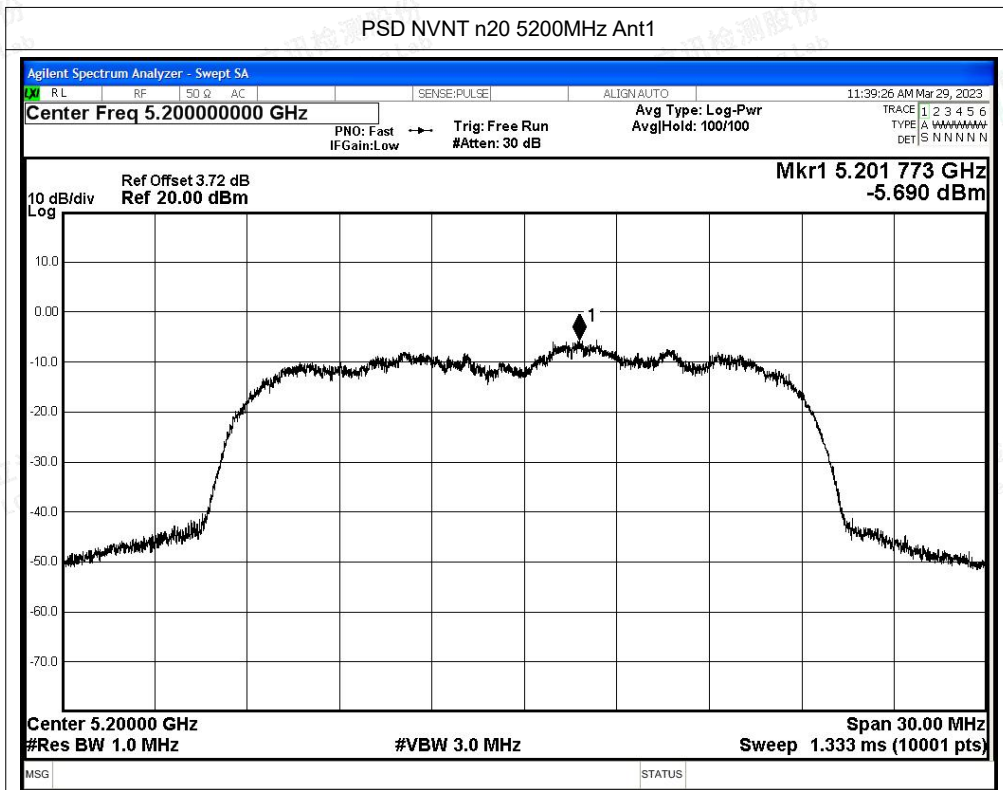


PSD NVNT a 5240MHz Ant1



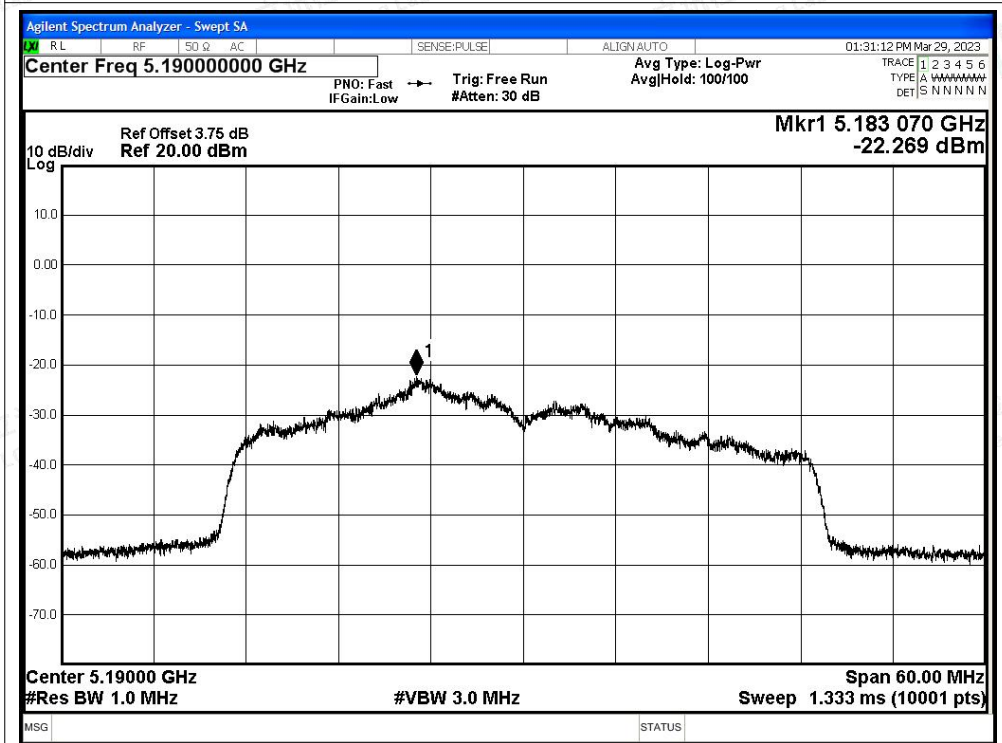
PSD NVNT n20 5180MHz Ant1



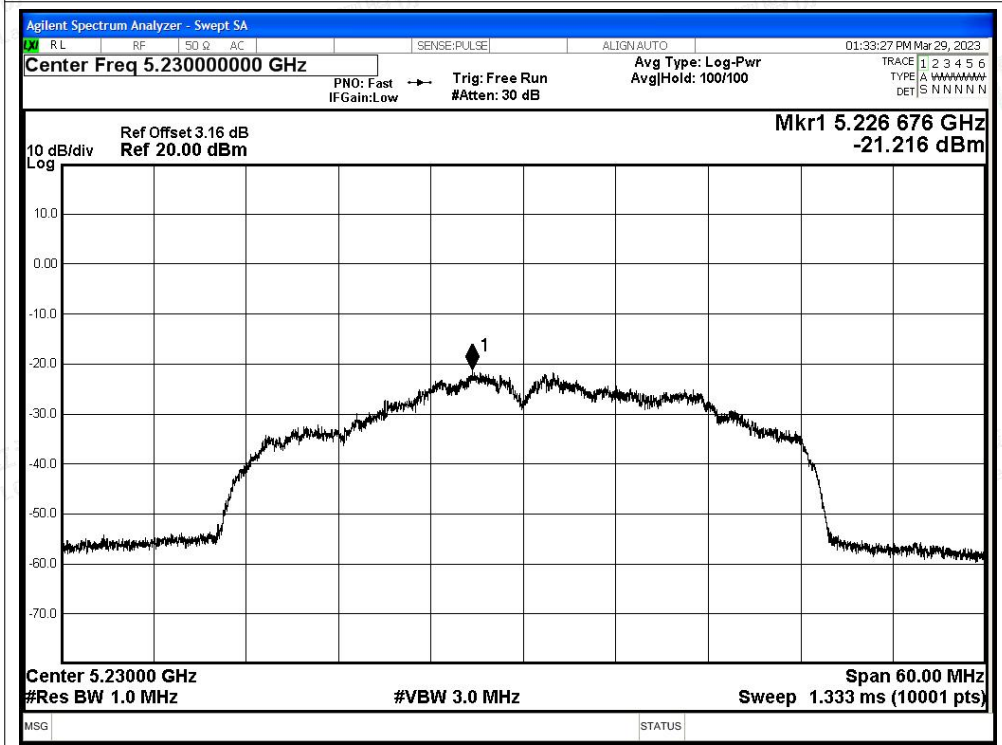




PSD NVNT n40 5190MHz Ant1

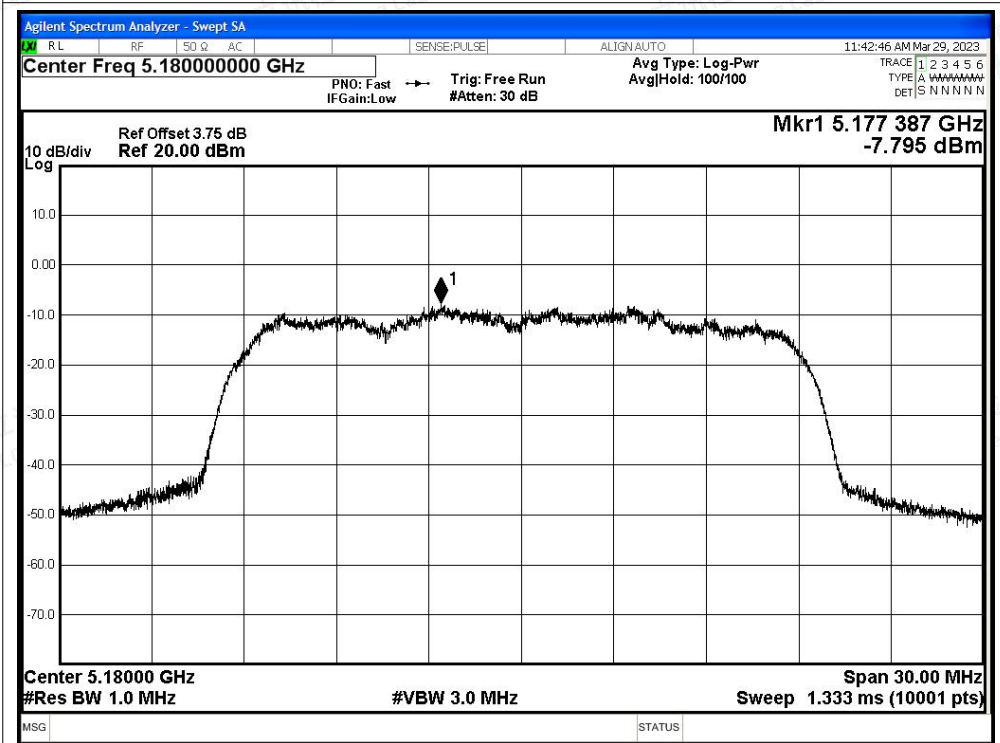


PSD NVNT n40 5230MHz Ant1

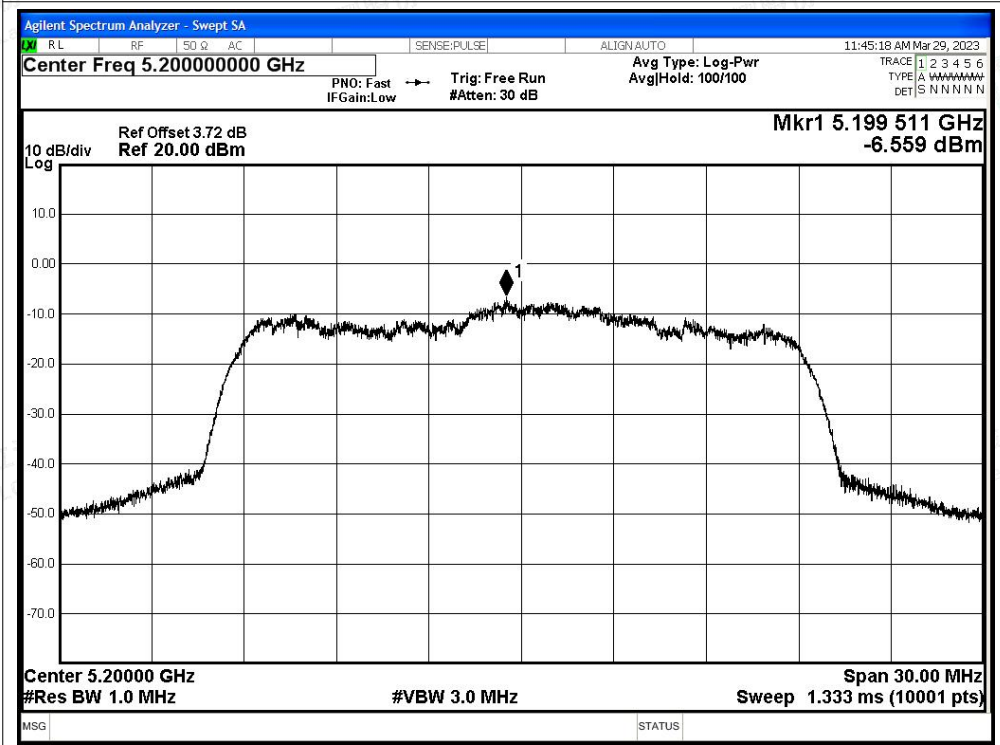




PSD NVNT ac20 5180MHz Ant1



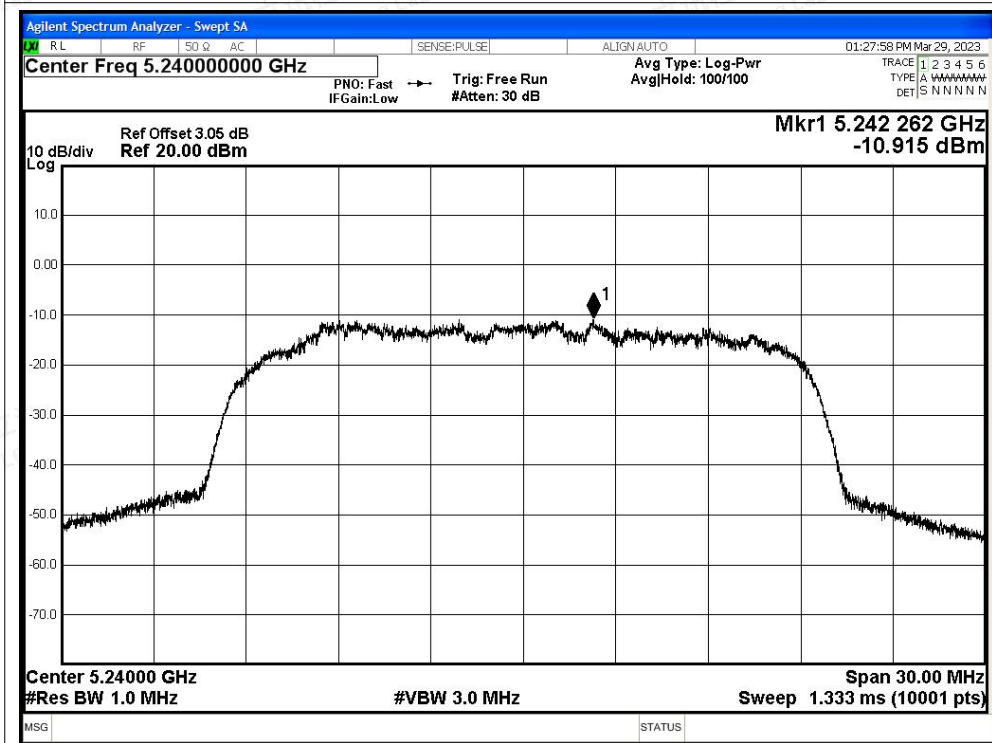
PSD NVNT ac20 5200MHz Ant1



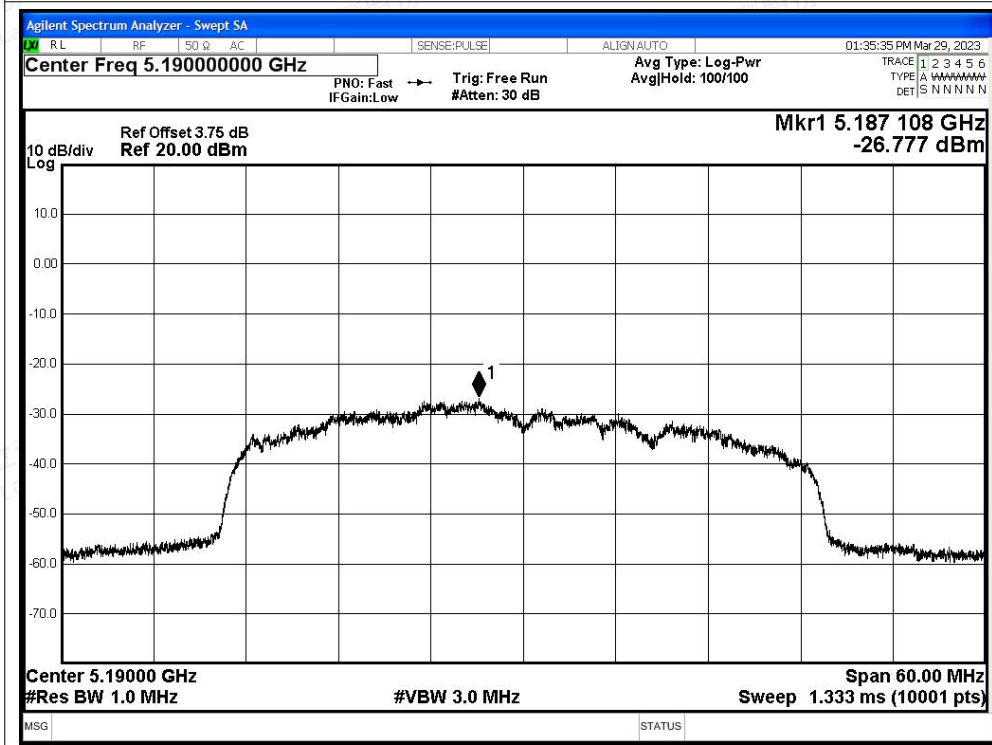


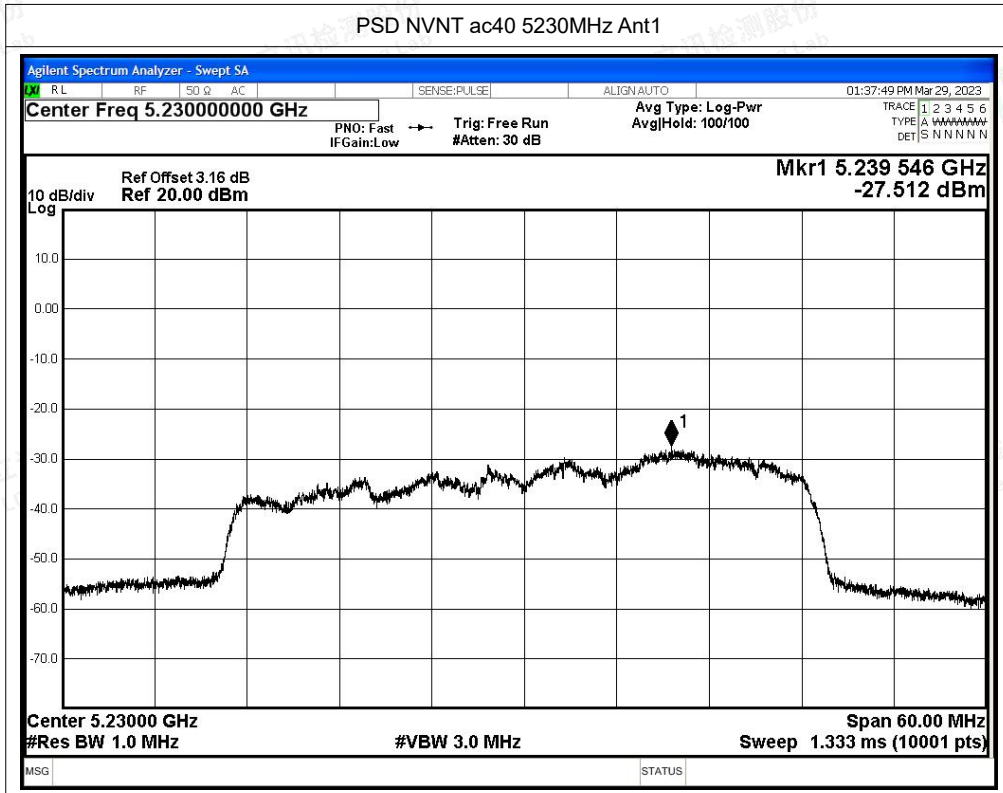


PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1







## B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-48.98	4.42	50.67	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.63	4.42	40.02	Average	54	Pass
NVNT	a	5180	Ant1	5099.2	-44.36	4.42	55.29	Peak	68.2	Pass
NVNT	a	5180	Ant1	5020.8	-53.84	4.42	45.81	Average	54	Pass
NVNT	a	5180	Ant1	5150	-47.93	4.42	51.72	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-56.71	4.42	42.94	Average	54	Pass
NVNT	a	5240	Ant1	5350	-50.52	4.42	49.13	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-58.84	4.42	40.81	Average	54	Pass
NVNT	a	5240	Ant1	5400.24	-45.34	4.42	54.31	Peak	68.2	Pass
NVNT	a	5240	Ant1	5399.04	-55.99	4.42	43.66	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.47	4.42	50.18	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-59.22	4.42	40.43	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.7	4.42	49.95	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.58	4.42	40.07	Average	54	Pass
NVNT	n20	5180	Ant1	5022.9	-43.29	4.42	56.36	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5021.5	-53.98	4.42	45.67	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.51	4.42	52.14	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-56.78	4.42	42.87	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.69	4.42	50.96	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-58.9	4.42	40.75	Average	54	Pass
NVNT	n20	5240	Ant1	5399.76	-45.39	4.42	54.26	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5401.44	-56.26	4.42	43.39	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.28	4.42	49.37	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-58.9	4.42	40.75	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.65	4.42	49	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.29	4.42	40.36	Average	54	Pass
NVNT	n40	5190	Ant1	5032.9	-44.63	4.42	55.02	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5111.01	-55.91	4.42	43.74	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-48.57	4.42	51.08	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-56.24	4.42	43.41	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.14	4.42	50.51	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-58.73	4.42	40.92	Average	54	Pass
NVNT	n40	5230	Ant1	5403.84	-44.93	4.42	54.72	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5388.18	-57.27	4.42	42.38	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.99	4.42	49.66	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.58	4.42	41.07	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-50.66	4.42	48.99	Peak	68.2	Pass





NVNT	ac20	5180	Ant1	4500	-59.61	4.42	40.04	Average	54	Pass
NVNT	ac20	5180	Ant1	5021.5	-43.95	4.42	55.7	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5021.5	-54.02	4.42	45.63	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-47.89	4.42	51.76	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-56.65	4.42	43	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.93	4.42	50.72	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-59	4.42	40.65	Average	54	Pass
NVNT	ac20	5240	Ant1	5399.52	-46.12	4.42	53.53	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5401.2	-57.19	4.42	42.46	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.24	4.42	49.41	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-59	4.42	40.65	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.85	4.42	49.8	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-59.32	4.42	40.33	Average	54	Pass
NVNT	ac40	5190	Ant1	5078.89	-45.73	4.42	53.92	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5108.82	-55.98	4.42	43.67	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-47.48	4.42	52.17	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-56.1	4.42	43.55	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-48.04	4.42	51.61	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-58.81	4.42	40.84	Average	54	Pass
NVNT	ac40	5230	Ant1	5457.3	-47.05	4.42	52.6	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5393.31	-57.47	4.42	42.18	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-48.21	4.42	51.44	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.64	4.42	41.01	Average	54	Pass

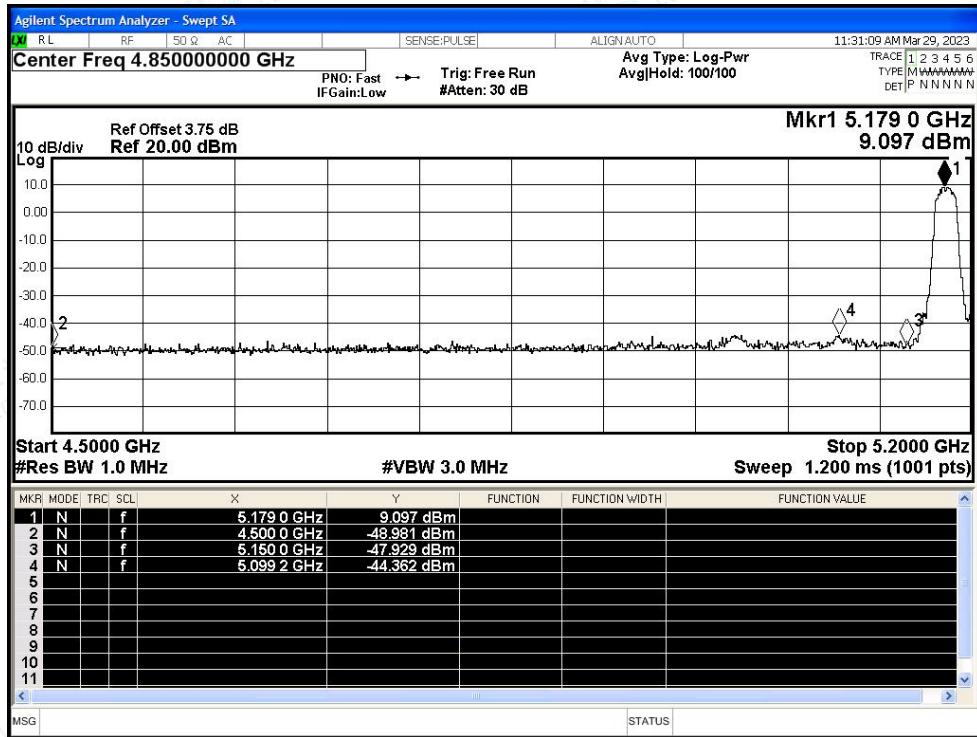


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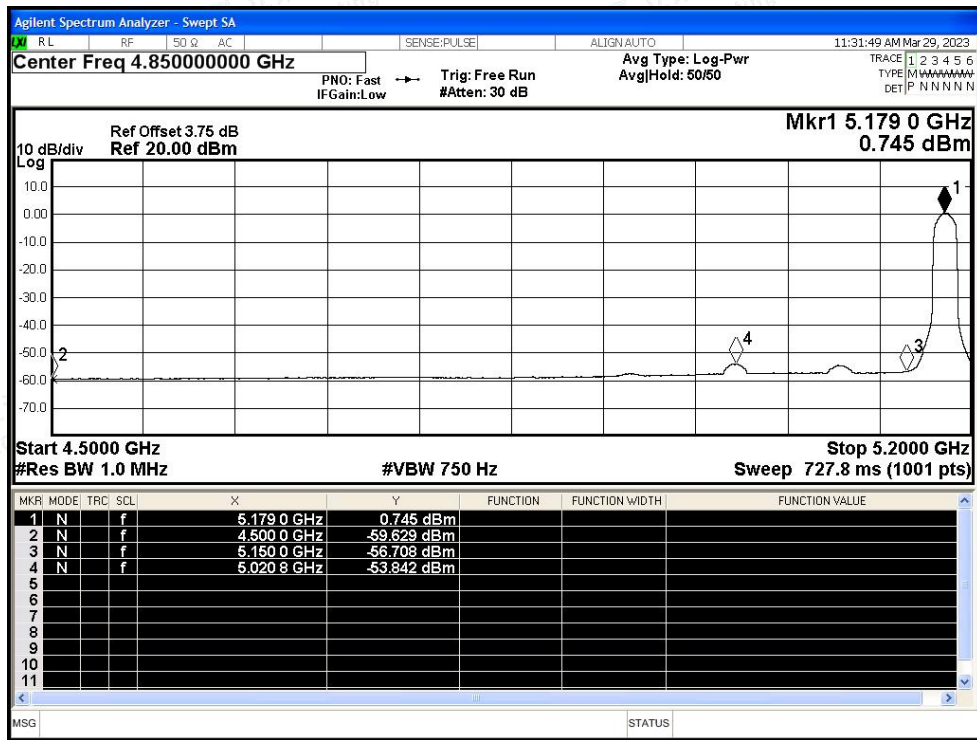


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

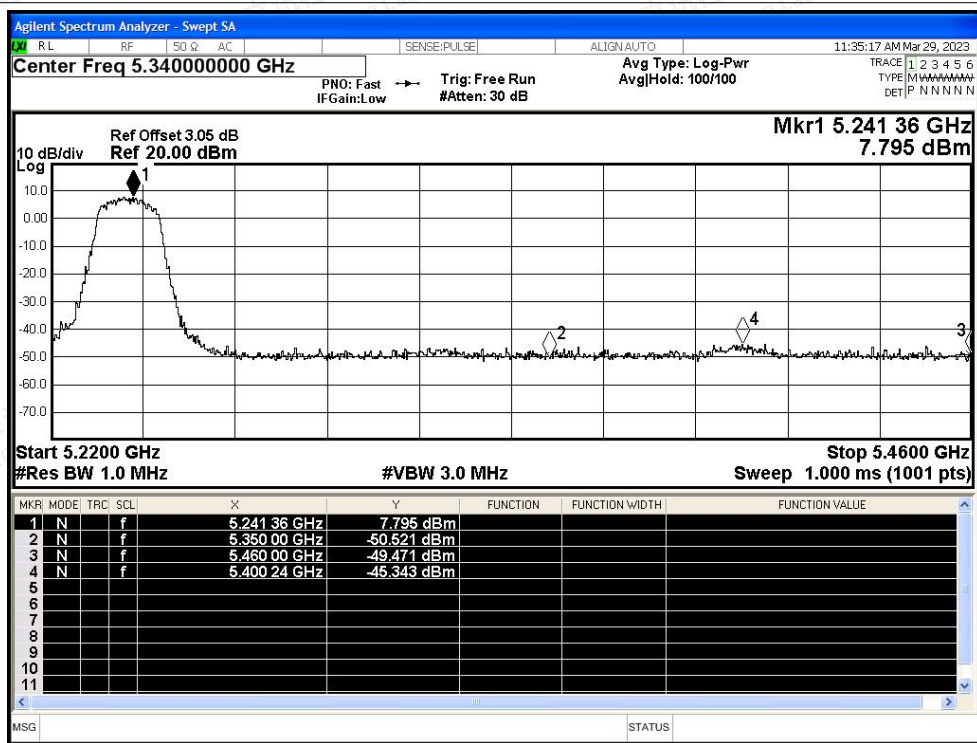


Restrict Band NVNT a 5180MHz Ant1 Average

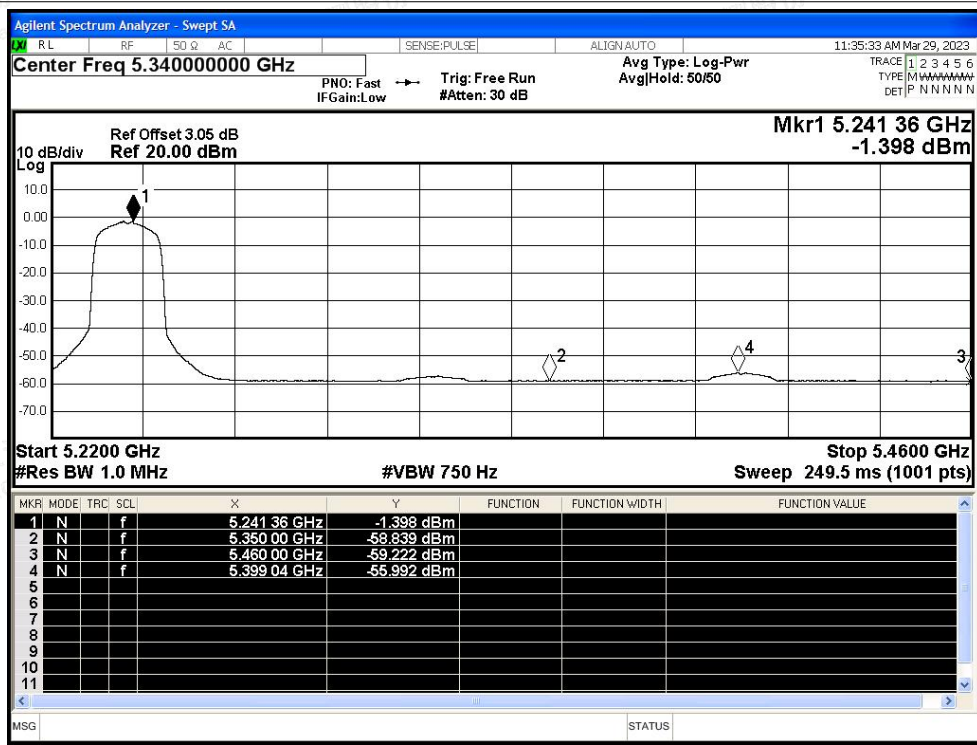




Restrict Band NVNT a 5240MHz Ant1 Peak

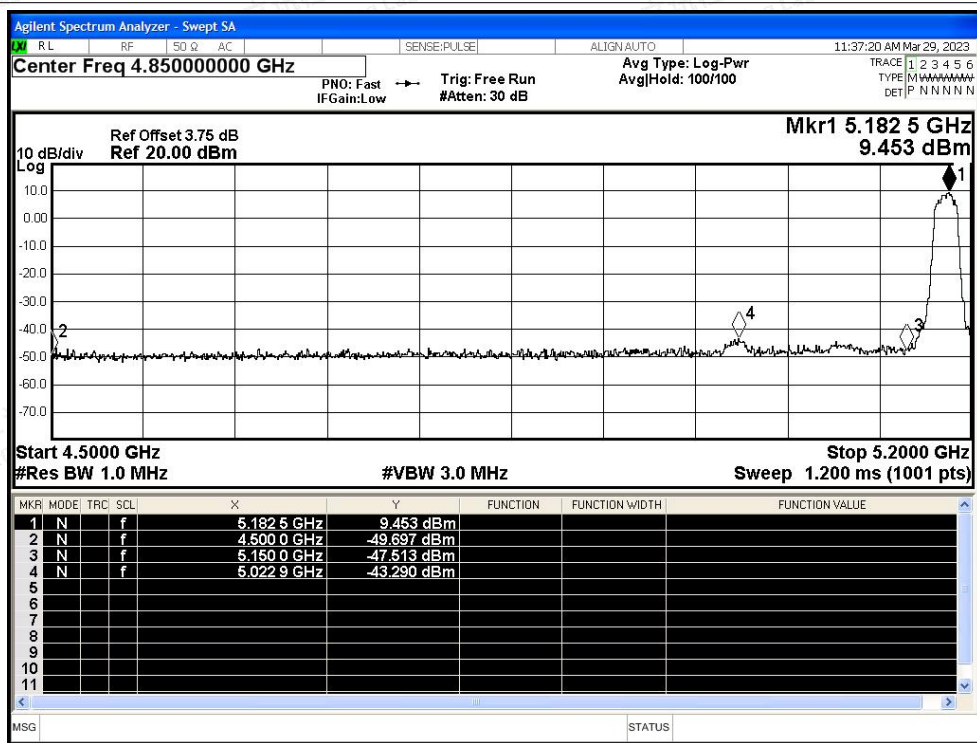


Restrict Band NVNT a 5240MHz Ant1 Average

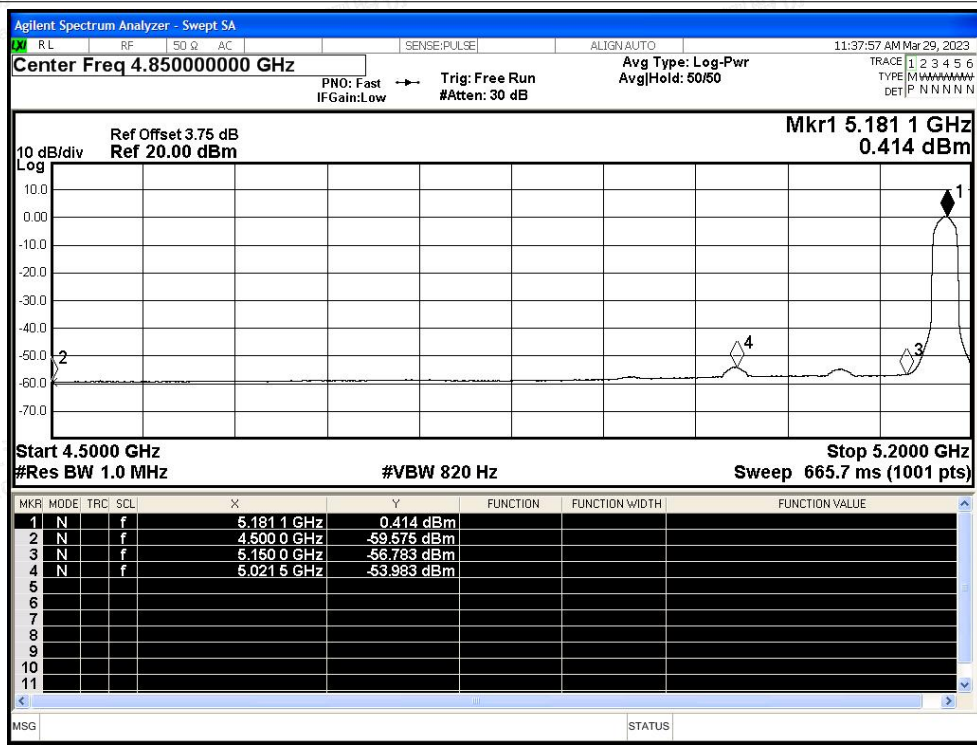




Restrict Band NVNT n20 5180MHz Ant1 Peak

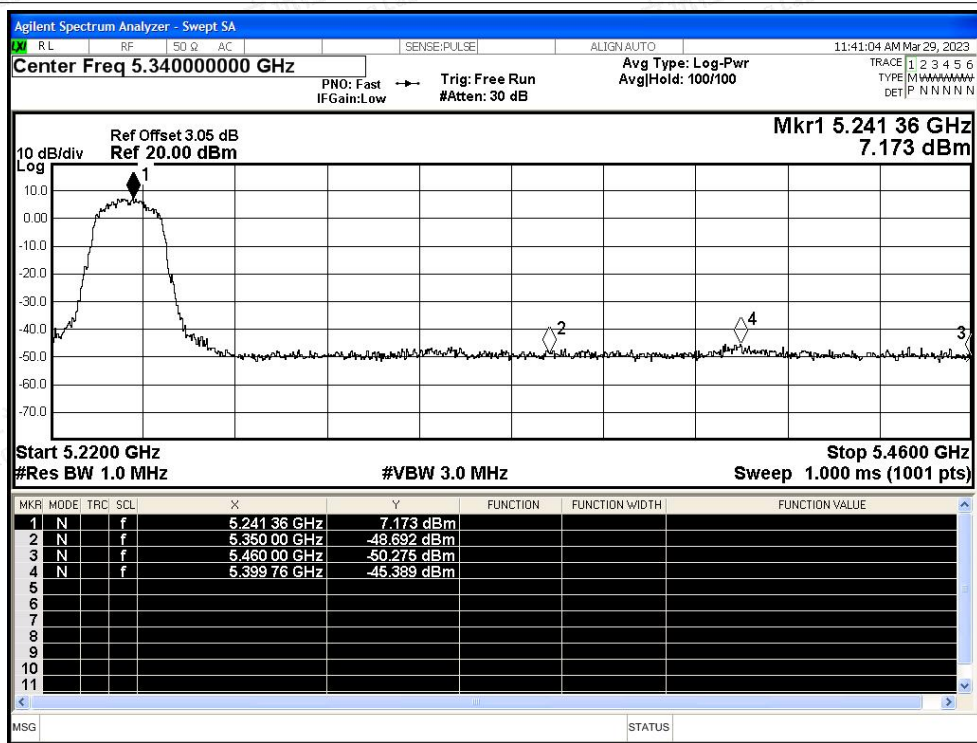


Restrict Band NVNT n20 5180MHz Ant1 Average

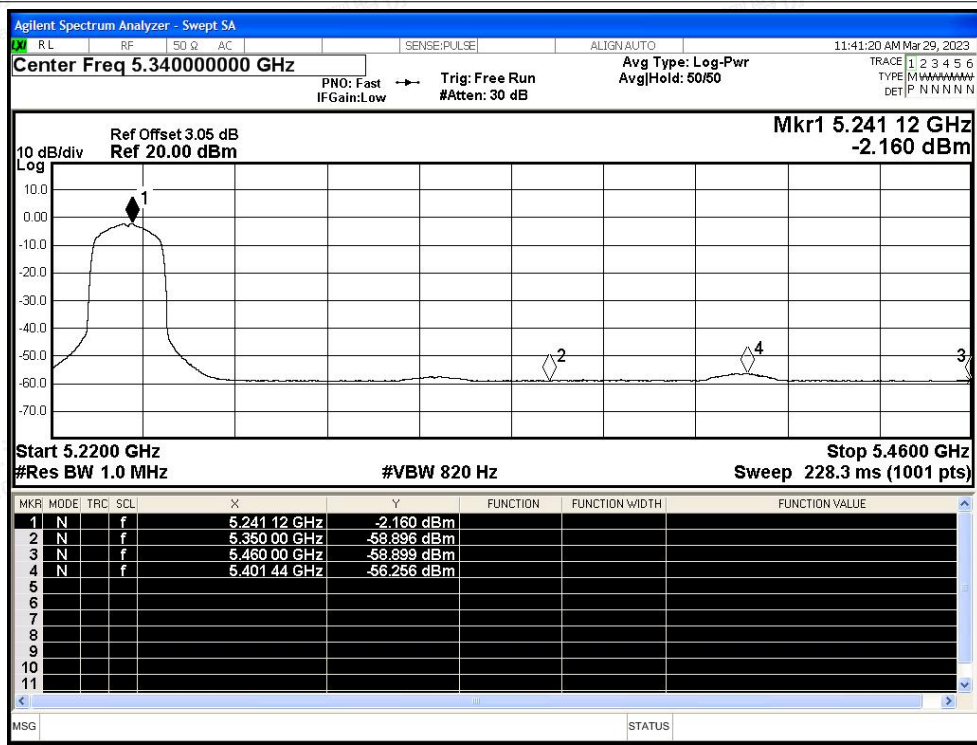




Restrict Band NVNT n20 5240MHz Ant1 Peak



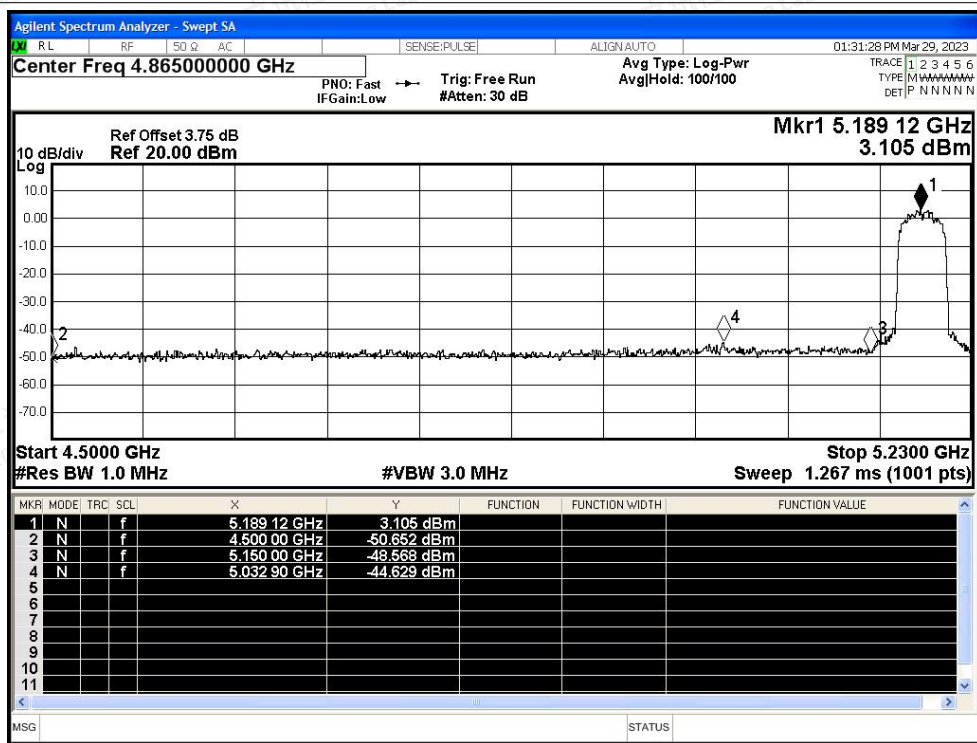
Restrict Band NVNT n20 5240MHz Ant1 Average



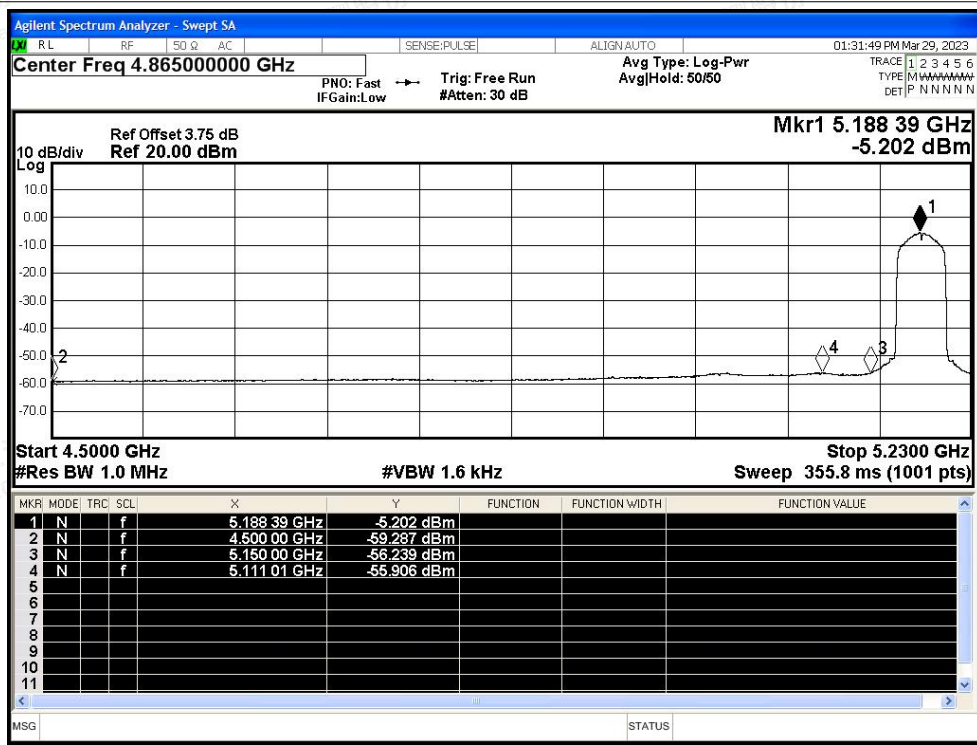




Restrict Band NVNT n40 5190MHz Ant1 Peak

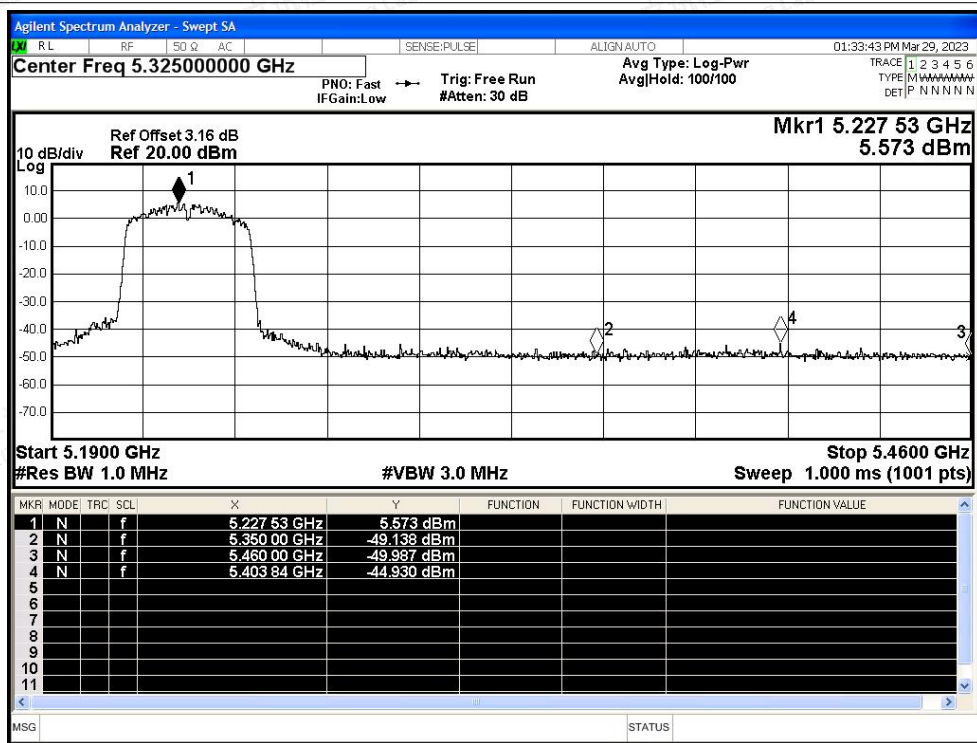


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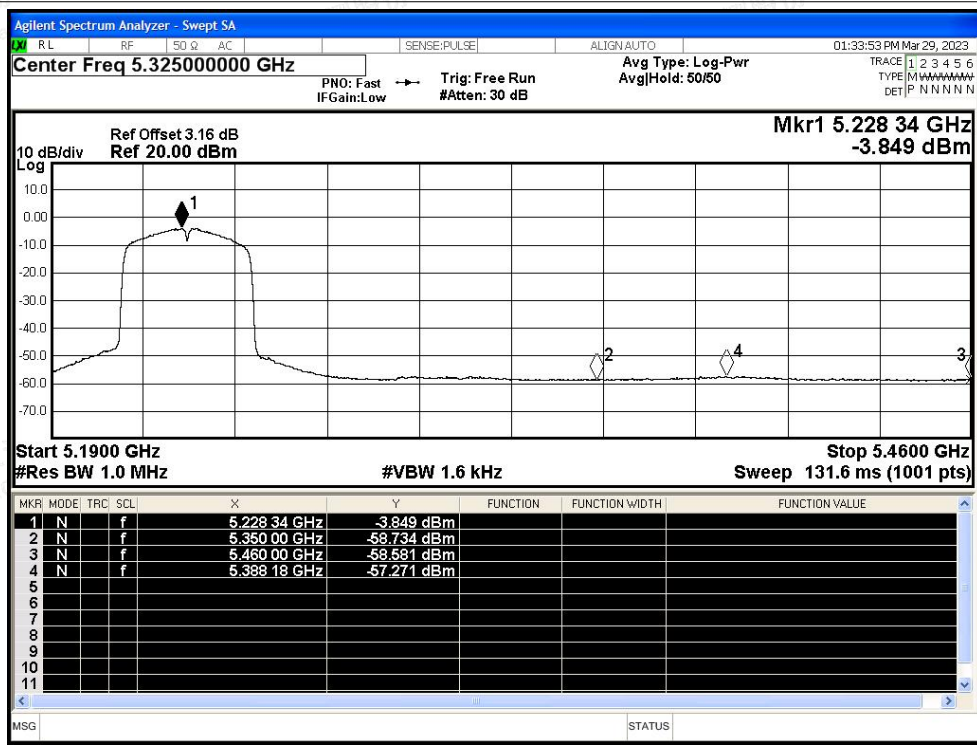




Restrict Band NVNT n40 5230MHz Ant1 Peak

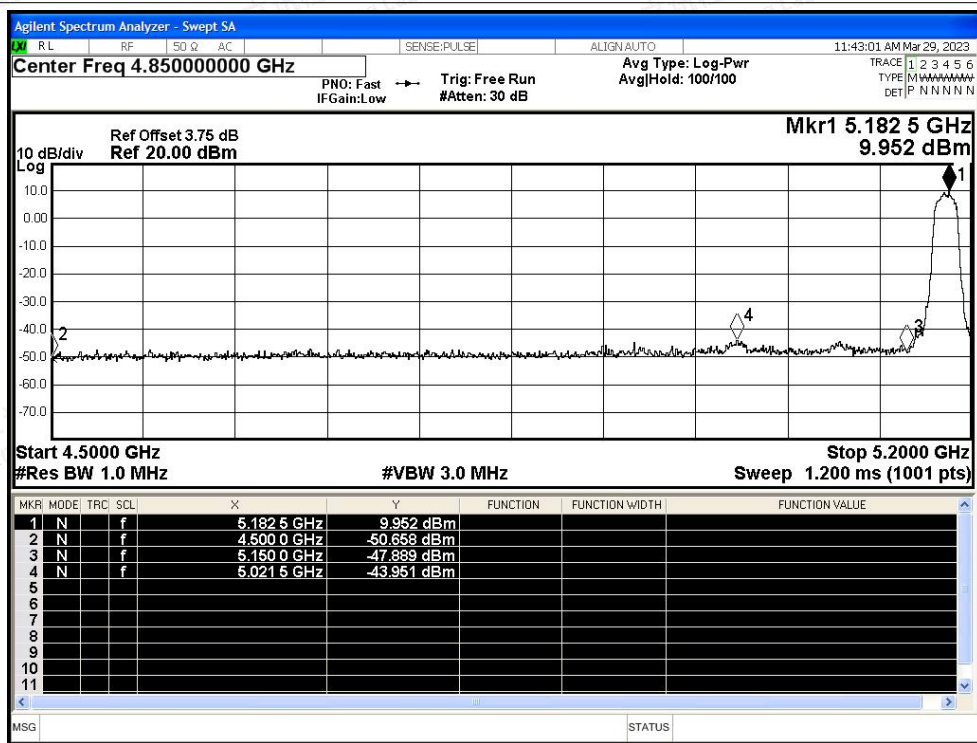


Restrict Band NVNT n40 5230MHz Ant1 Average

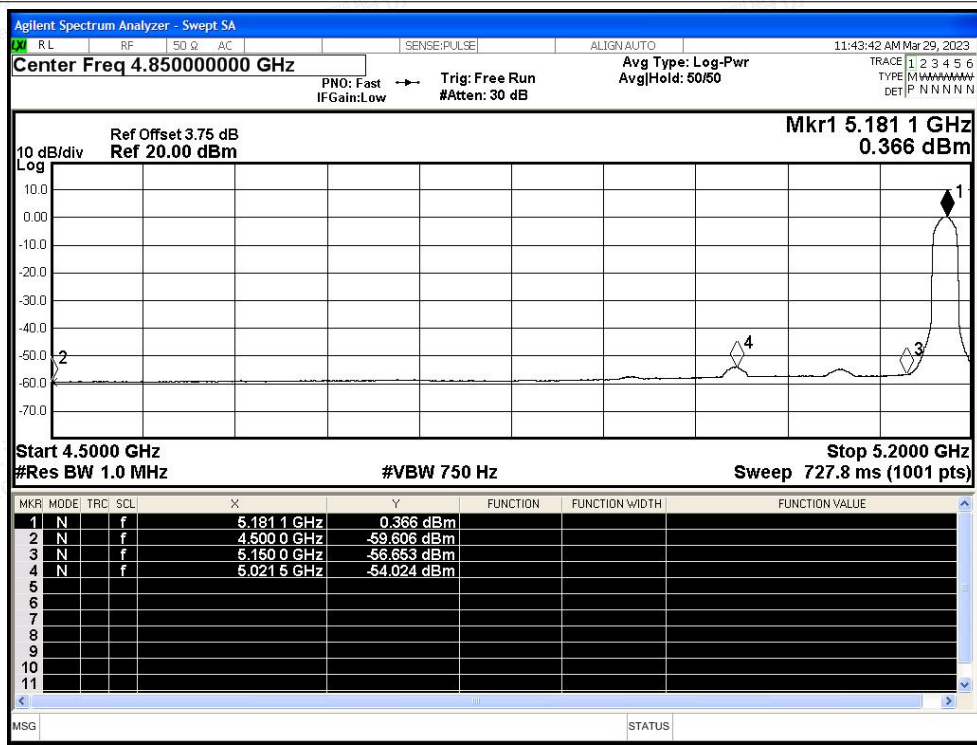




Restrict Band NVNT ac20 5180MHz Ant1 Peak

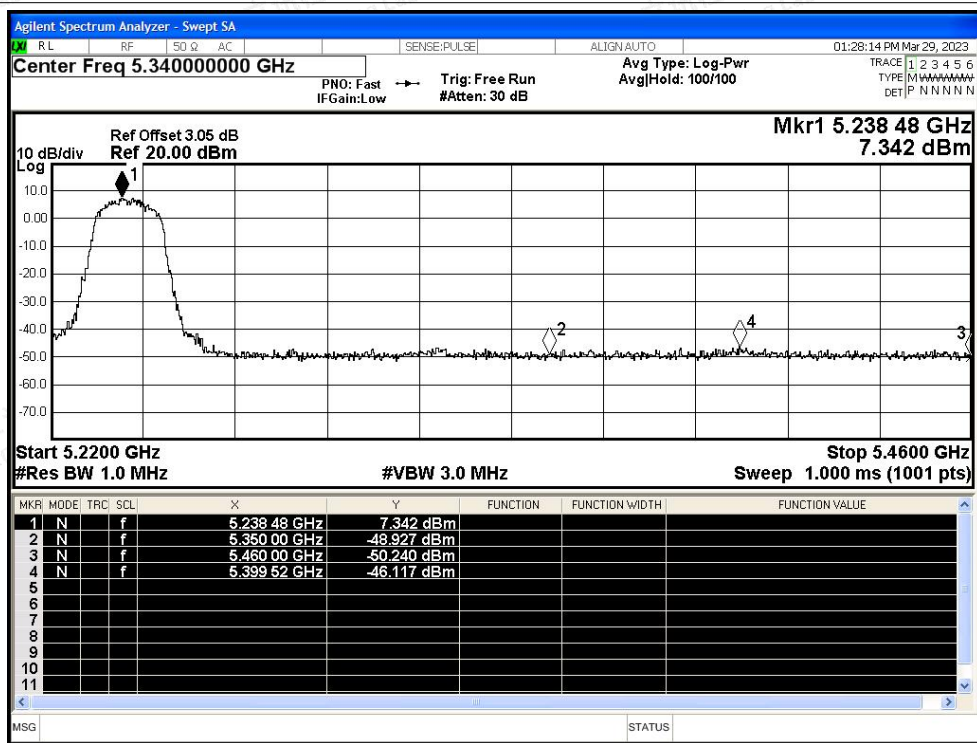


Restrict Band NVNT ac20 5180MHz Ant1 Average





Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average

