



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Smart ARM PC BOX

Test Model: APC390K

Environmental Conditions

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





D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.873	---	Pass
NVNT	a	5200	Ant1	24.859	---	Pass
NVNT	a	5240	Ant1	21.54	---	Pass
NVNT	n20	5180	Ant1	24.082	---	Pass
NVNT	n20	5200	Ant1	23.504	---	Pass
NVNT	n20	5240	Ant1	21.511	---	Pass
NVNT	n40	5190	Ant1	48.582	---	Pass
NVNT	n40	5230	Ant1	48.683	---	Pass
NVNT	ac20	5180	Ant1	23.904	---	Pass
NVNT	ac20	5200	Ant1	24.578	---	Pass
NVNT	ac20	5240	Ant1	24.883	---	Pass
NVNT	ac40	5190	Ant1	55.19	---	Pass
NVNT	ac40	5230	Ant1	53.885	---	Pass
NVNT	ac80	5210	Ant1	84.77	---	Pass

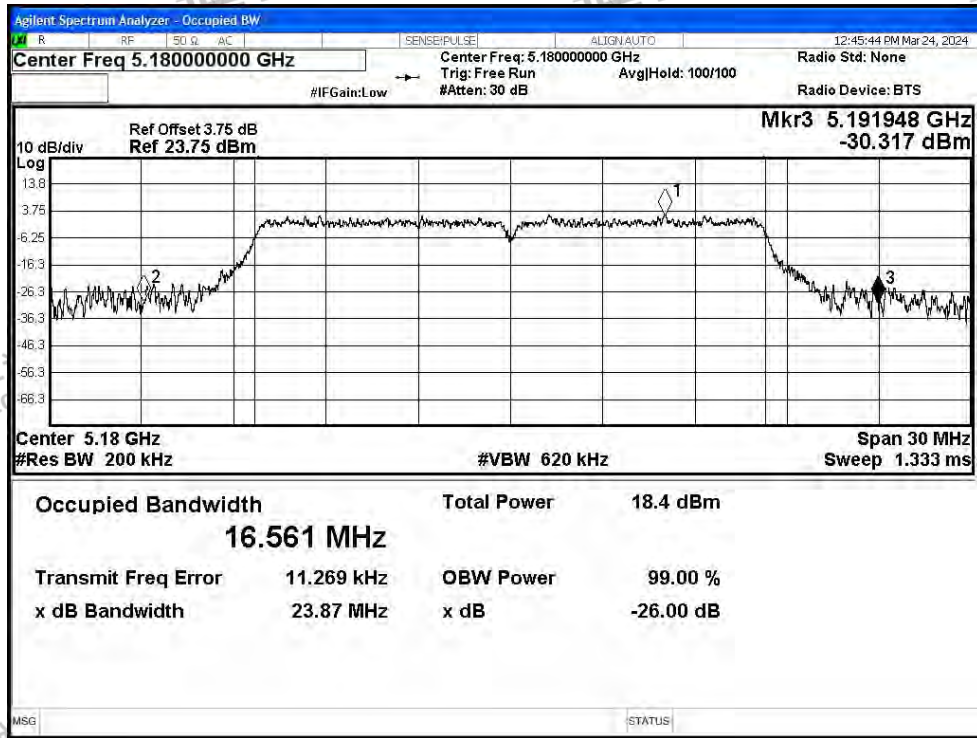


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 Scan code to check authenticity

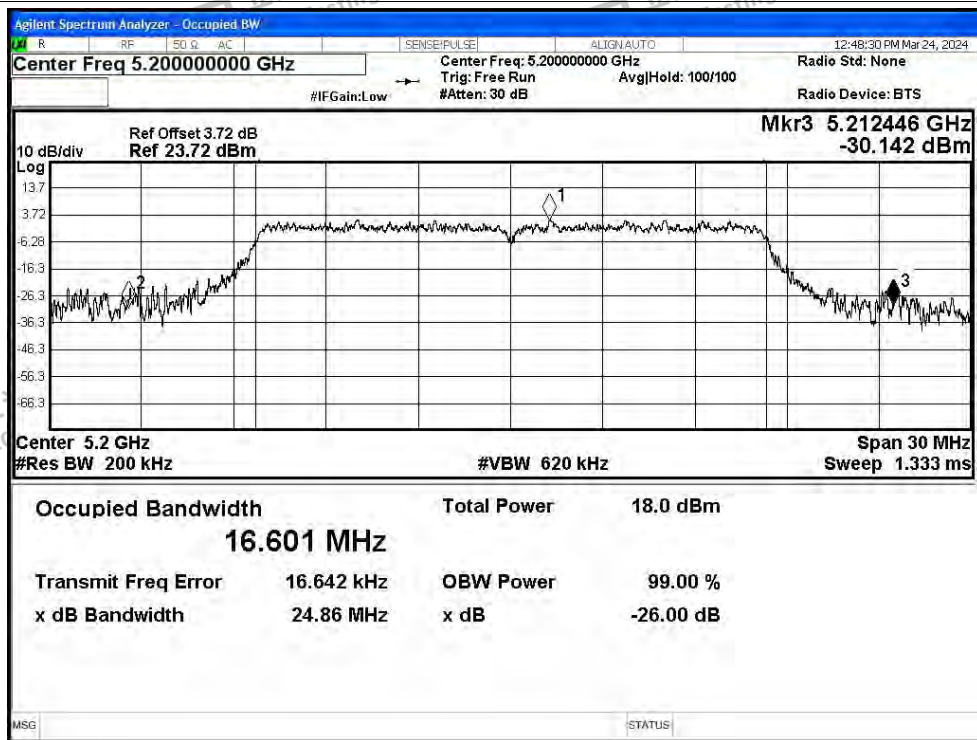


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

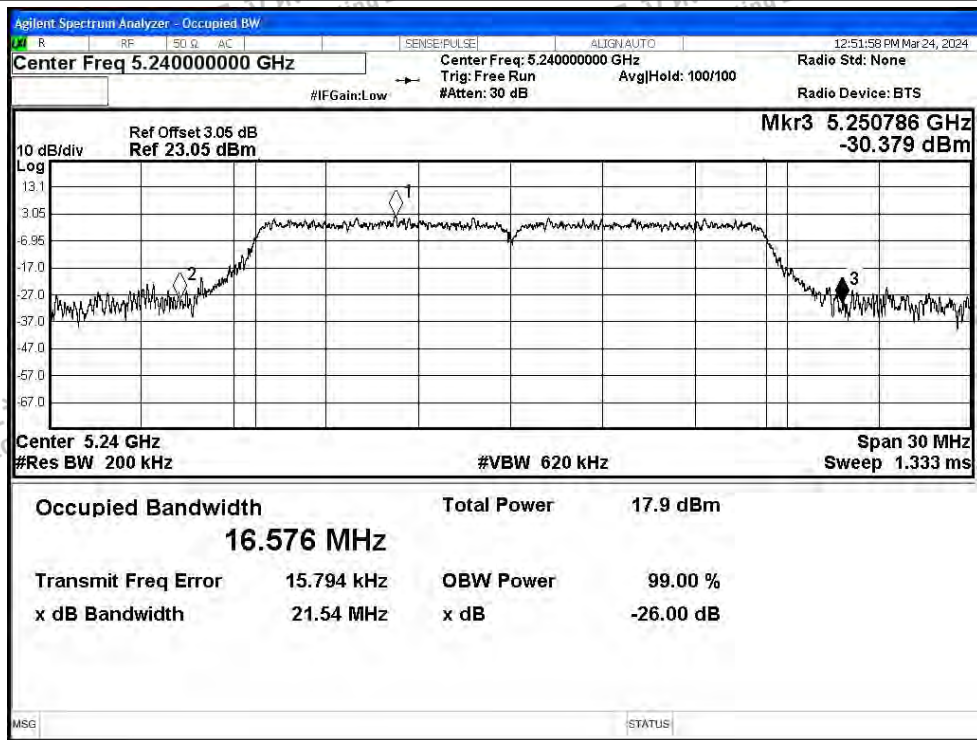


-26dB Bandwidth NVNT a 5200MHz Ant1

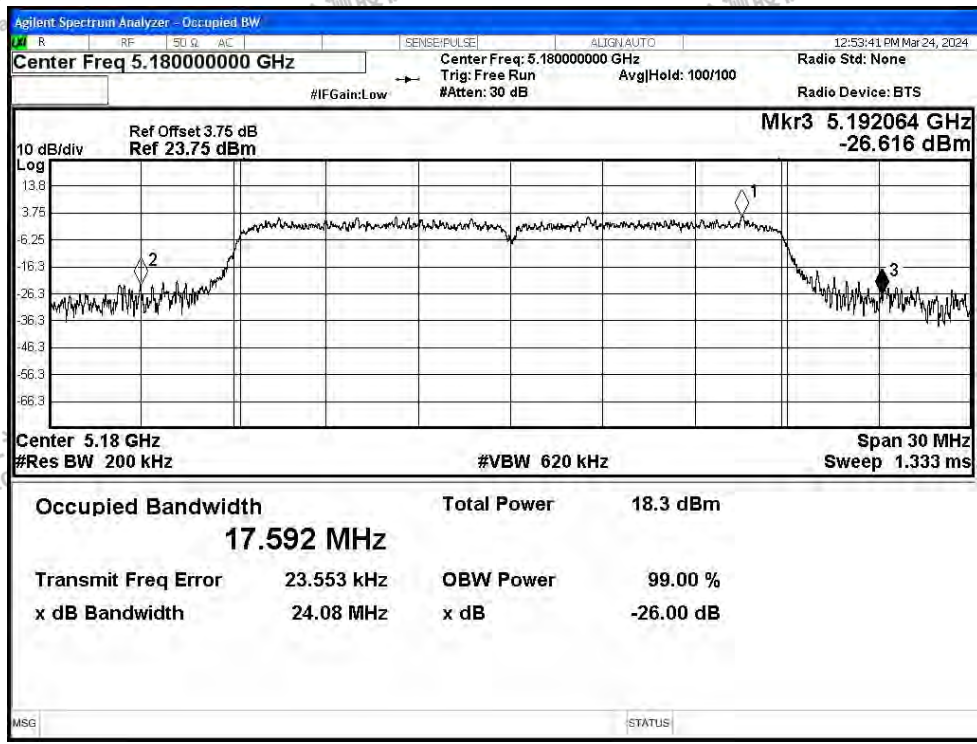




-26dB Bandwidth NVNT a 5240MHz Ant1

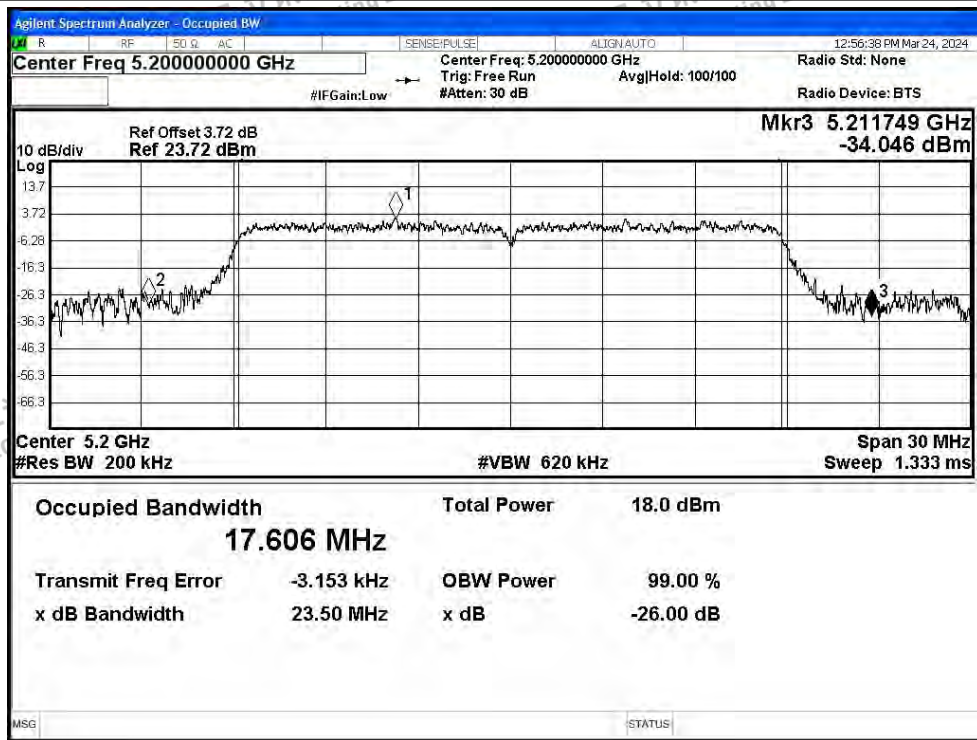


-26dB Bandwidth NVNT n20 5180MHz Ant1





-26dB Bandwidth NVNT n20 5200MHz Ant1

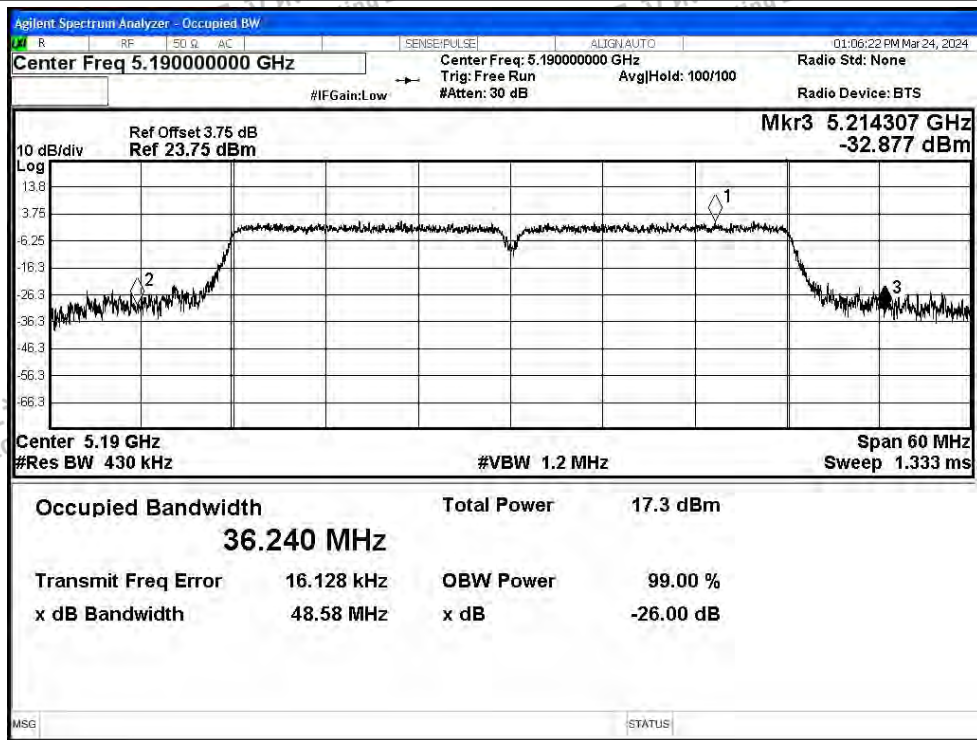


-26dB Bandwidth NVNT n20 5240MHz Ant1

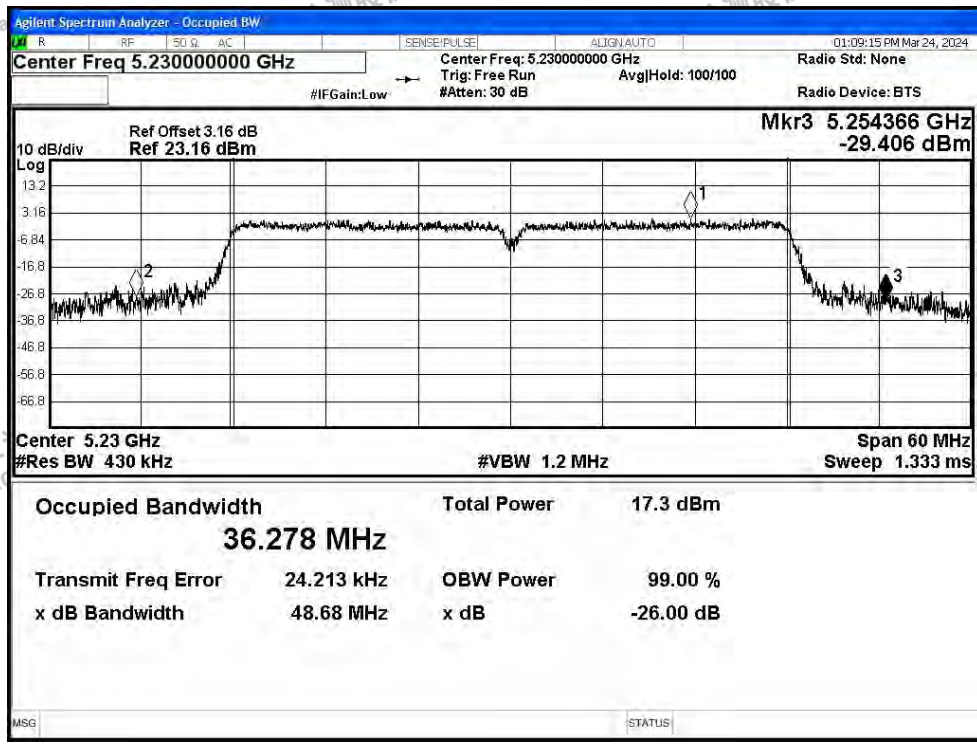




-26dB Bandwidth NVNT n40 5190MHz Ant1

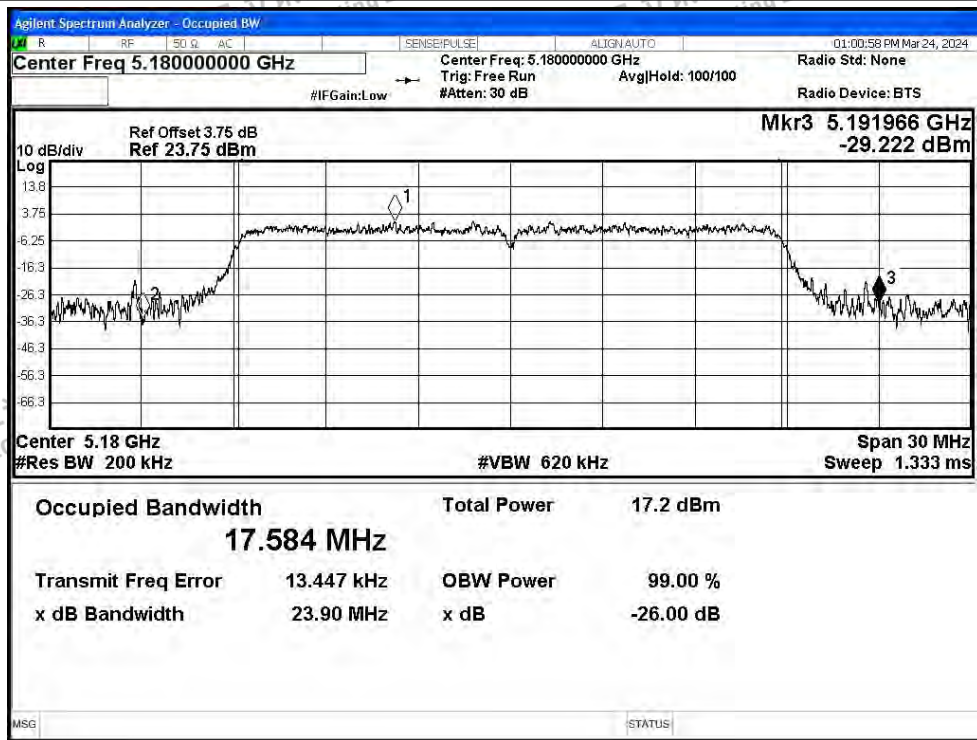


-26dB Bandwidth NVNT n40 5230MHz Ant1

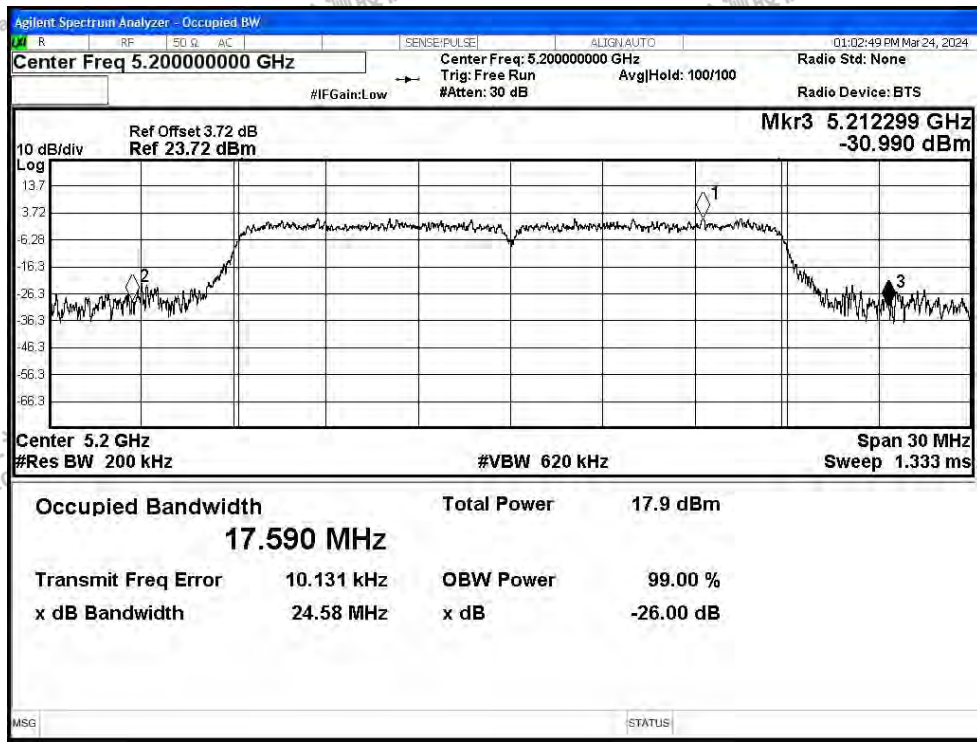




-26dB Bandwidth NVNT ac20 5180MHz Ant1

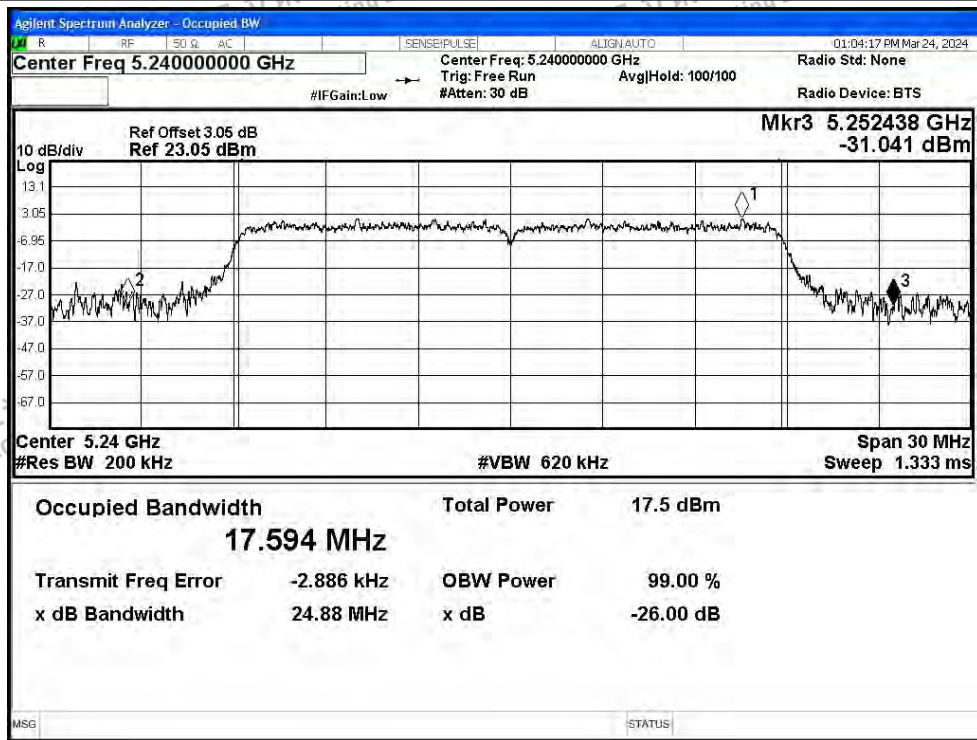


-26dB Bandwidth NVNT ac20 5200MHz Ant1

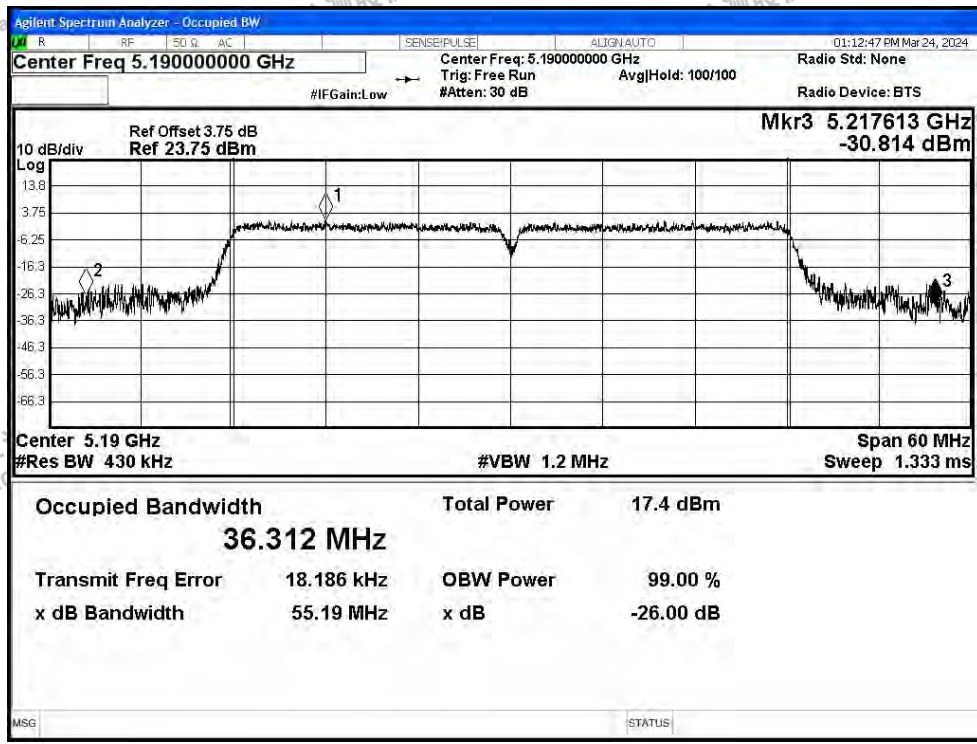




-26dB Bandwidth NVNT ac20 5240MHz Ant1

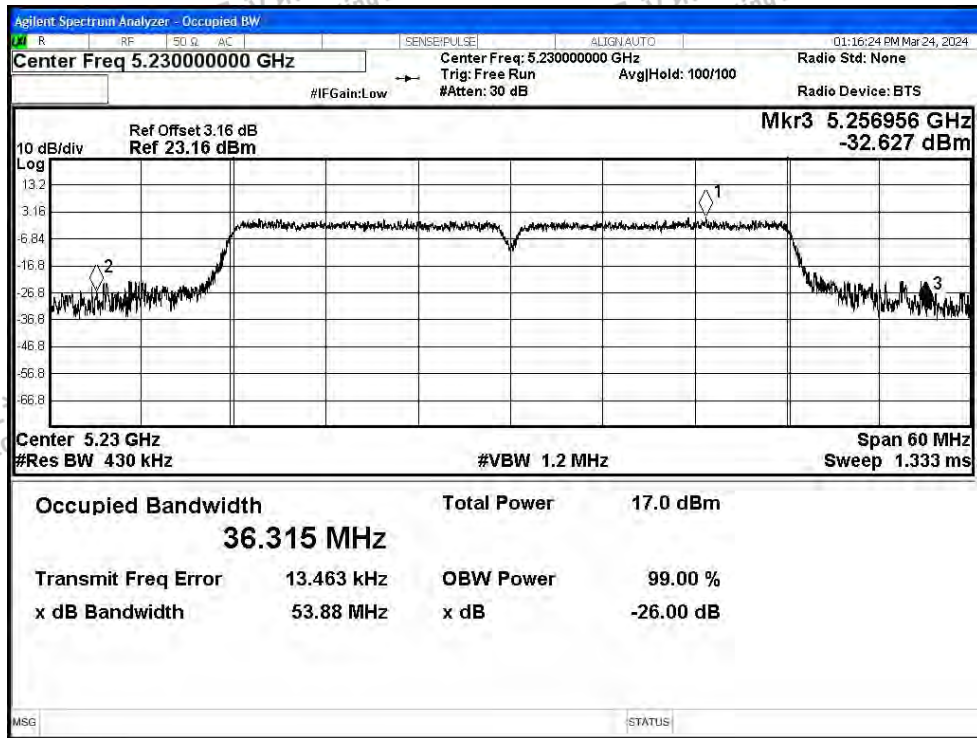


-26dB Bandwidth NVNT ac40 5190MHz Ant1

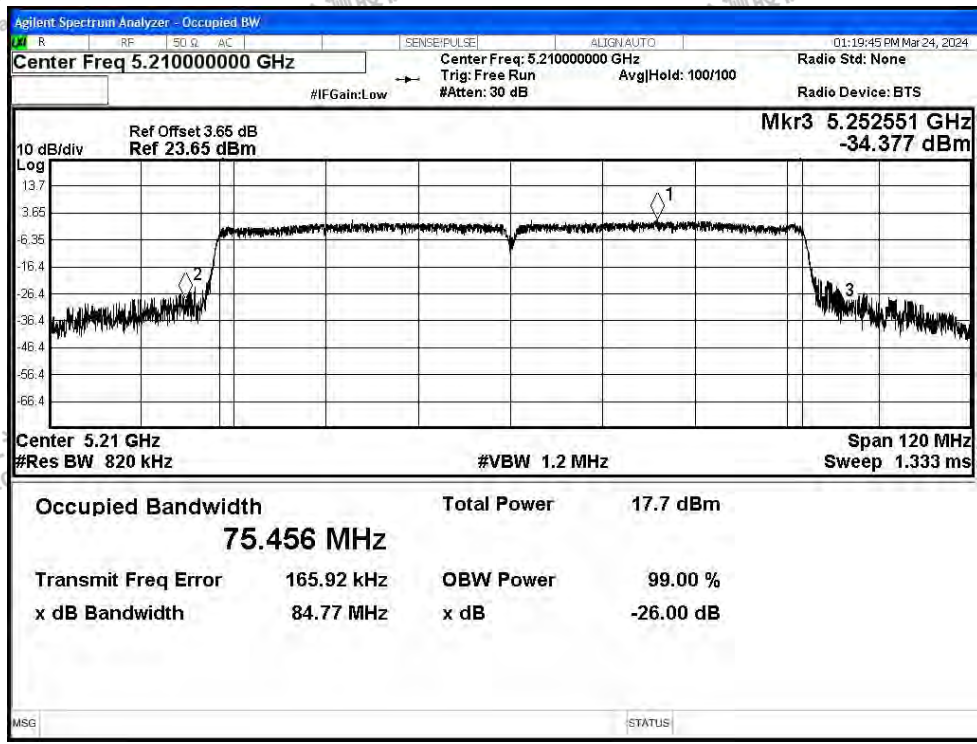




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	24.603	---	Pass
NVNT	a	5200	Ant2	24.994	---	Pass
NVNT	a	5240	Ant2	24.976	---	Pass
NVNT	n20	5180	Ant2	23.247	---	Pass
NVNT	n20	5200	Ant2	25.35	---	Pass
NVNT	n20	5240	Ant2	26.144	---	Pass
NVNT	n40	5190	Ant2	48.758	---	Pass
NVNT	n40	5230	Ant2	42.347	---	Pass
NVNT	ac20	5180	Ant2	25.342	---	Pass
NVNT	ac20	5200	Ant2	24.562	---	Pass
NVNT	ac20	5240	Ant2	25.247	---	Pass
NVNT	ac40	5190	Ant2	55.606	---	Pass
NVNT	ac40	5230	Ant2	56.506	---	Pass
NVNT	ac80	5210	Ant2	82.454	---	Pass

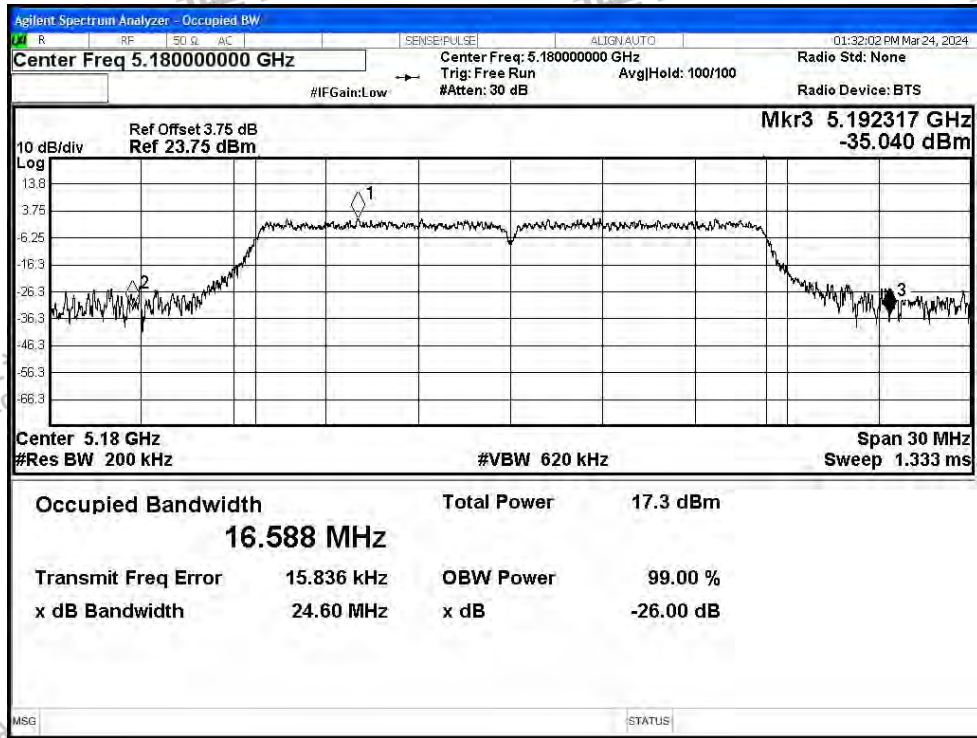


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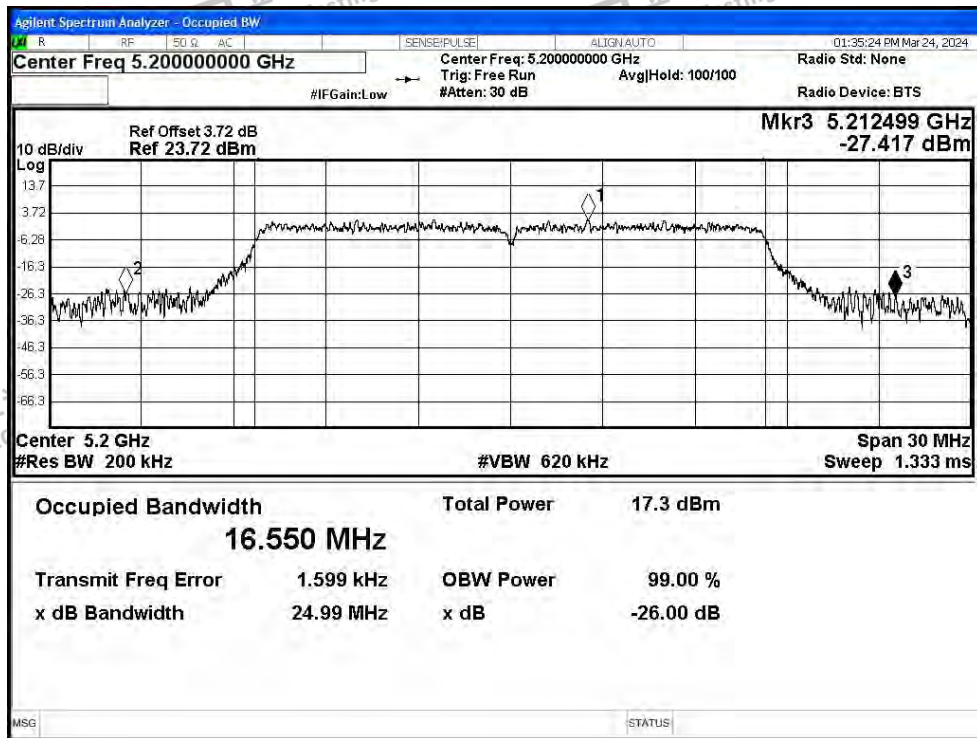


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2

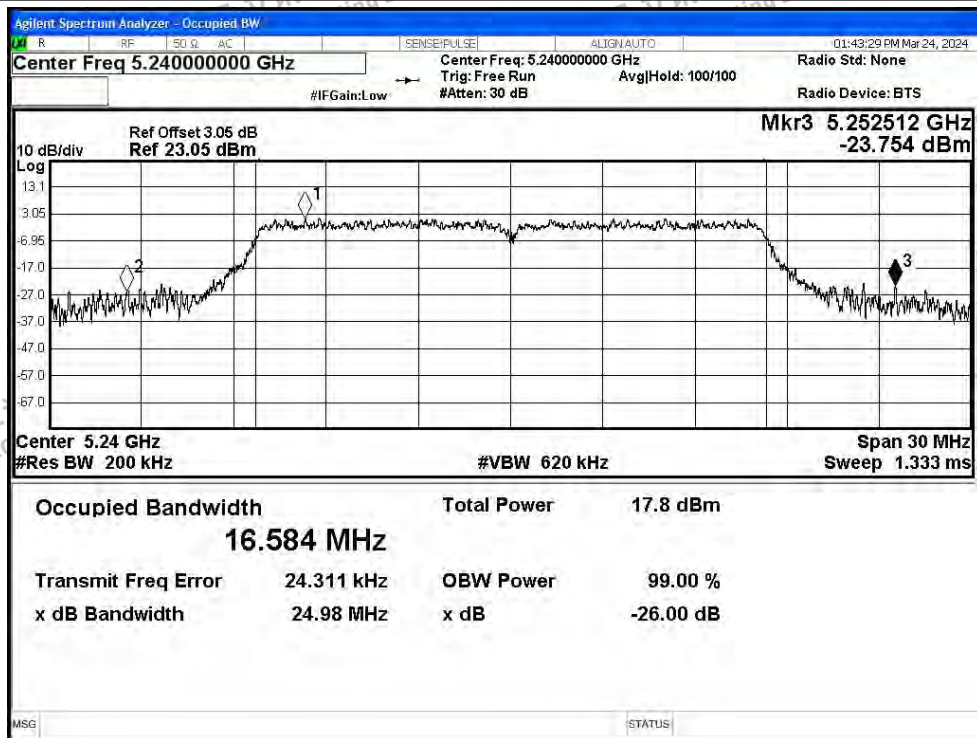


-26dB Bandwidth NVNT a 5200MHz Ant2

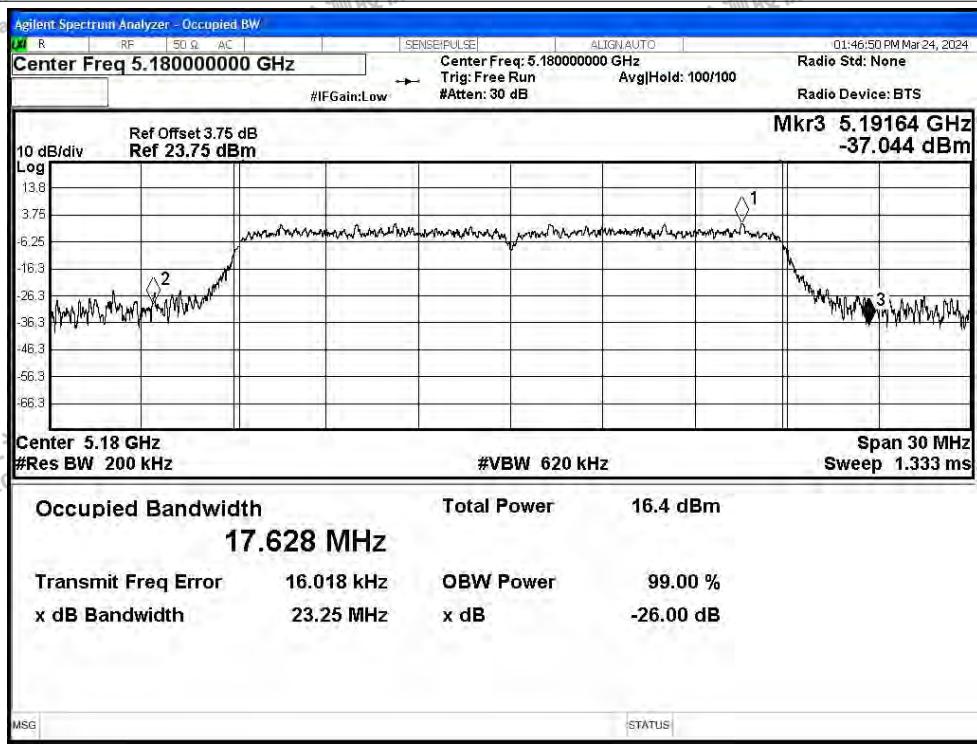




-26dB Bandwidth NVNT a 5240MHz Ant2

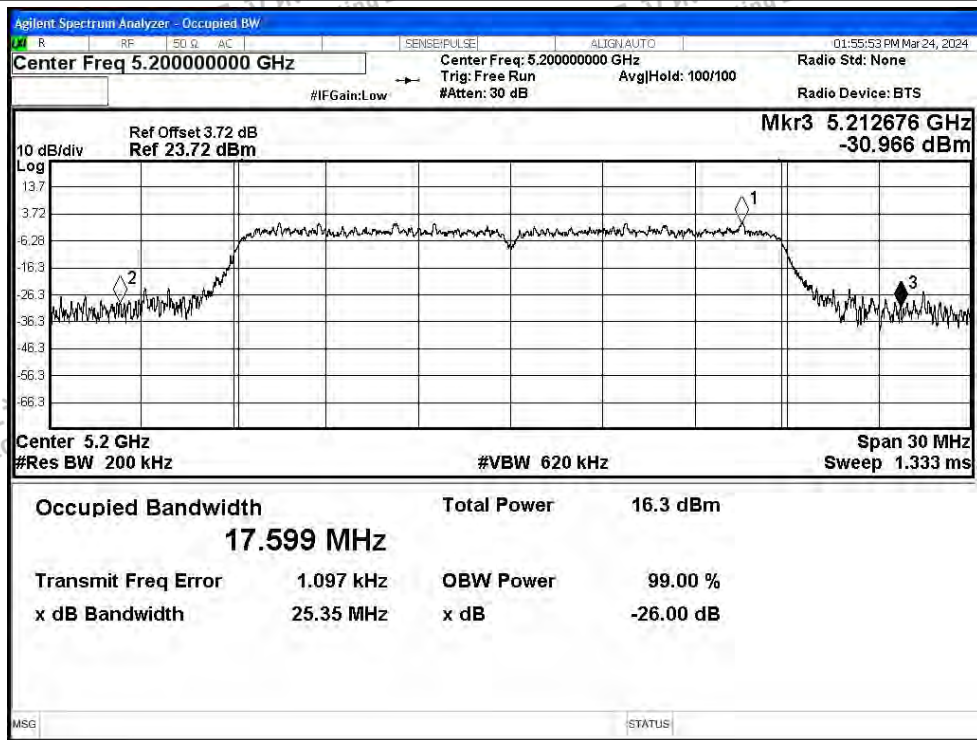


-26dB Bandwidth NVNT n20 5180MHz Ant2

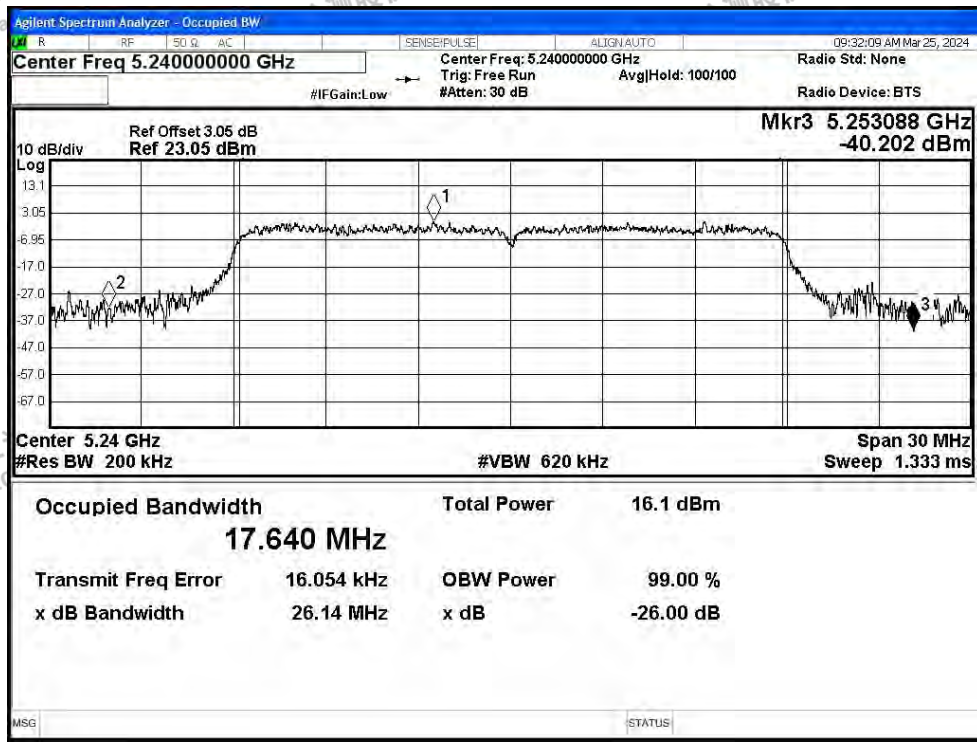




-26dB Bandwidth NVNT n20 5200MHz Ant2

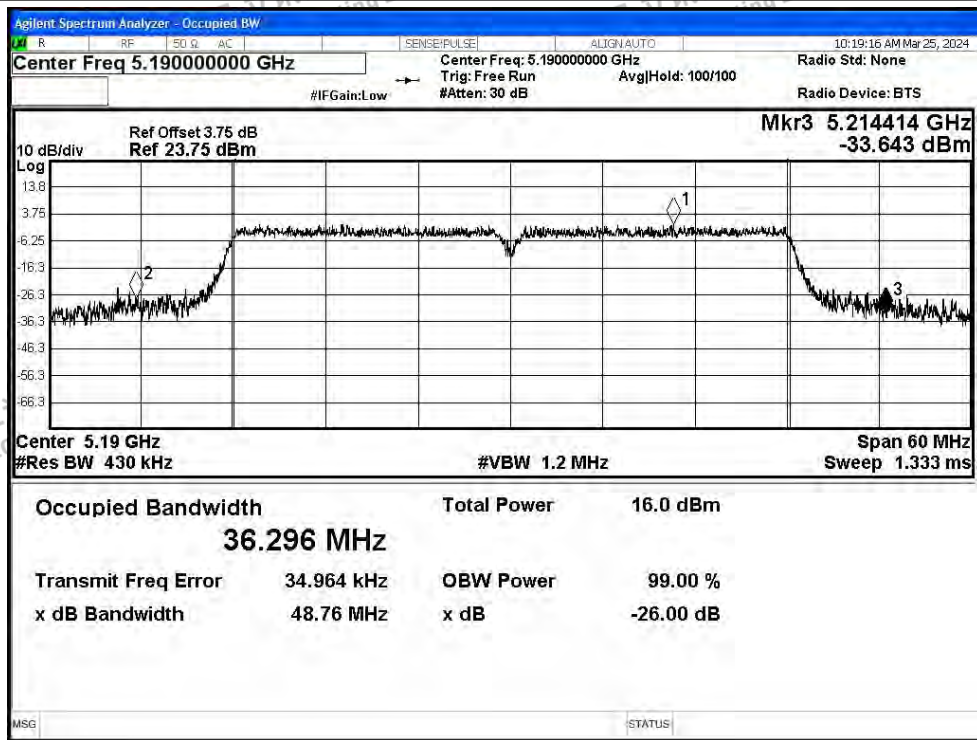


-26dB Bandwidth NVNT n20 5240MHz Ant2

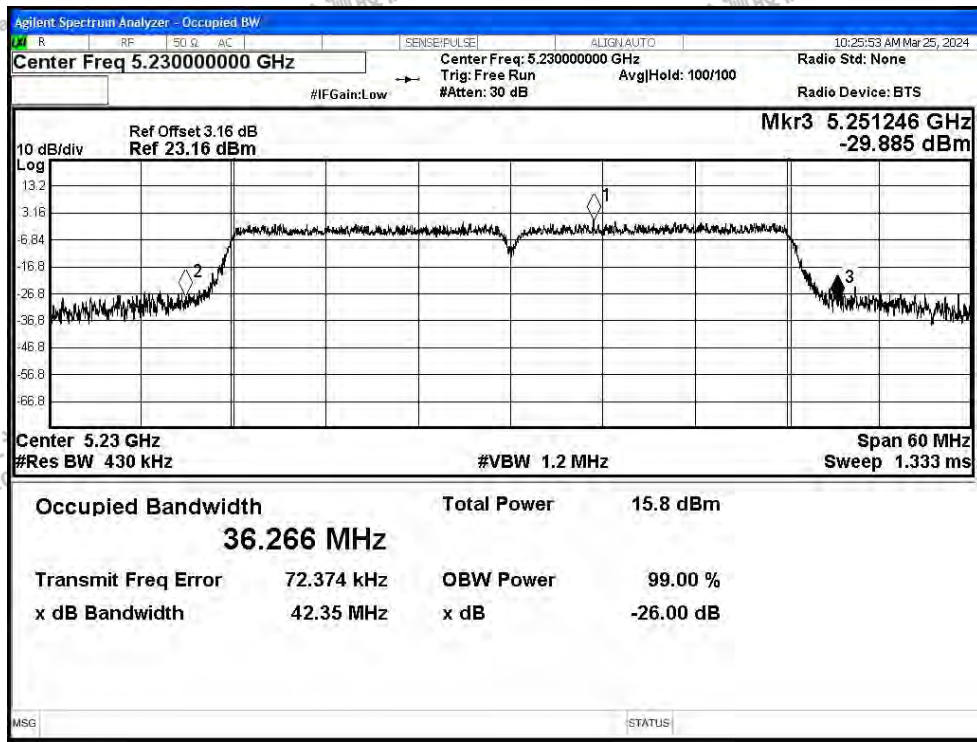




-26dB Bandwidth NVNT n40 5190MHz Ant2

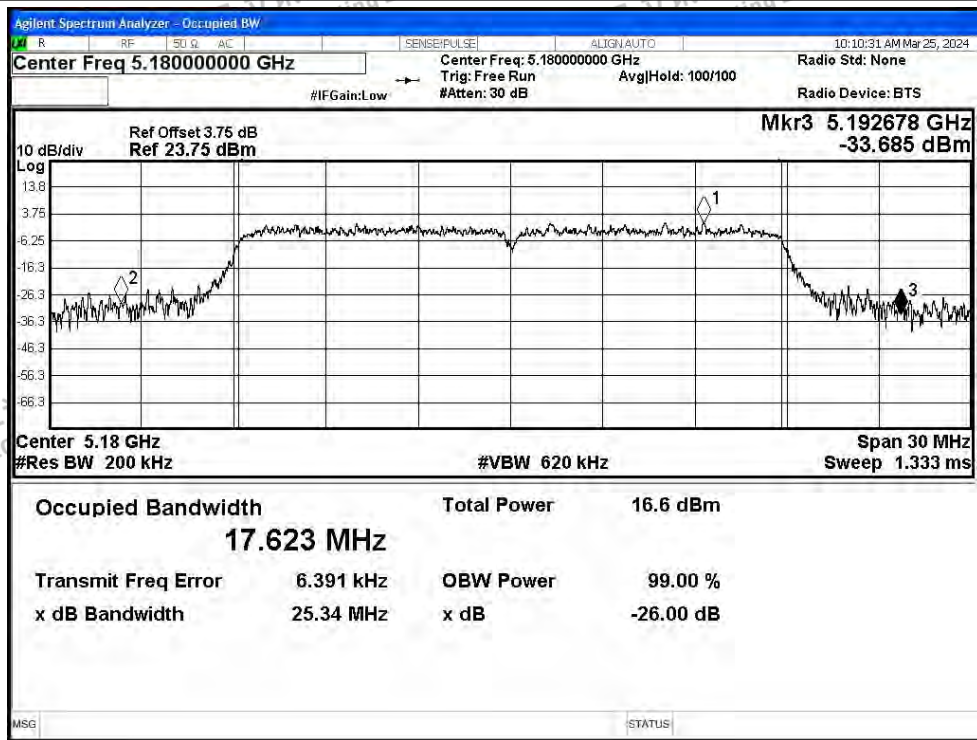


-26dB Bandwidth NVNT n40 5230MHz Ant2

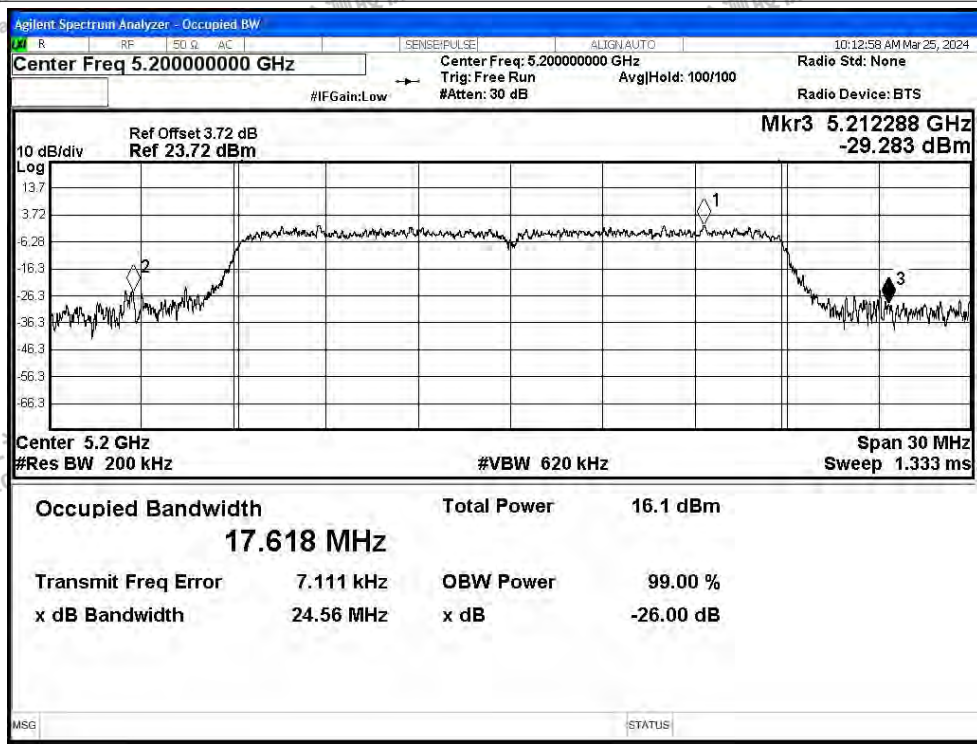




-26dB Bandwidth NVNT ac20 5180MHz Ant2

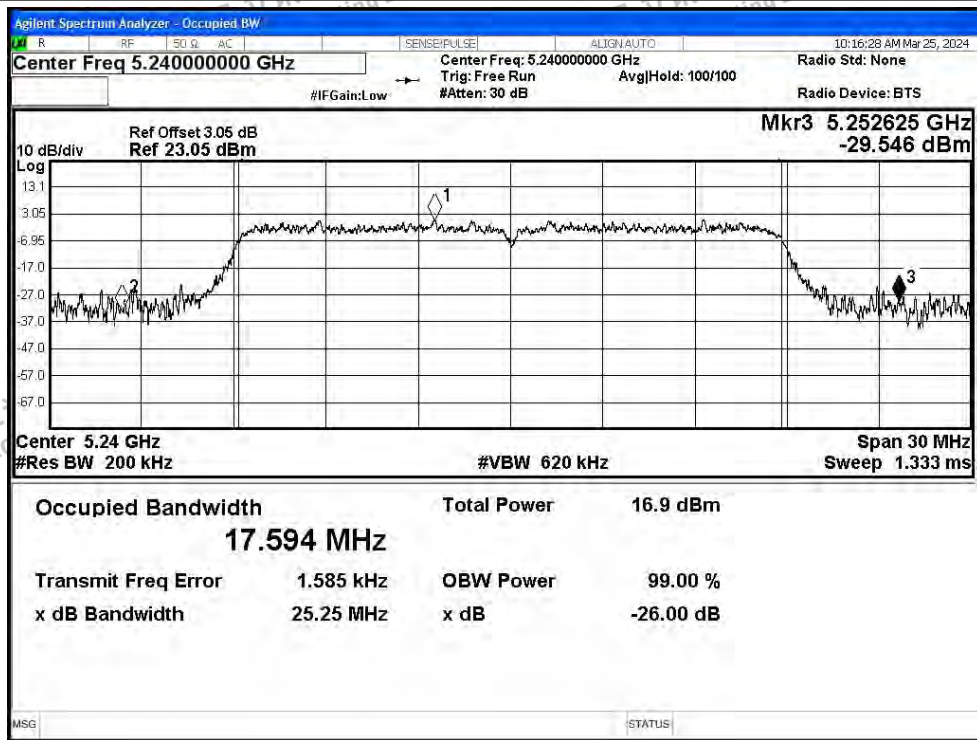


-26dB Bandwidth NVNT ac20 5200MHz Ant2

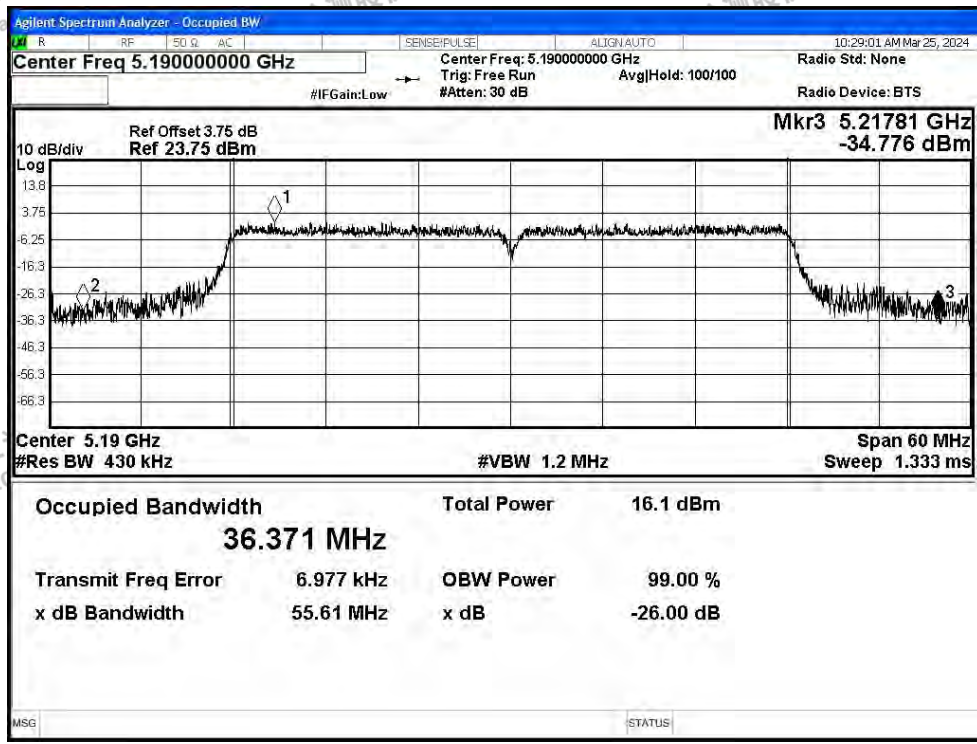




-26dB Bandwidth NVNT ac20 5240MHz Ant2

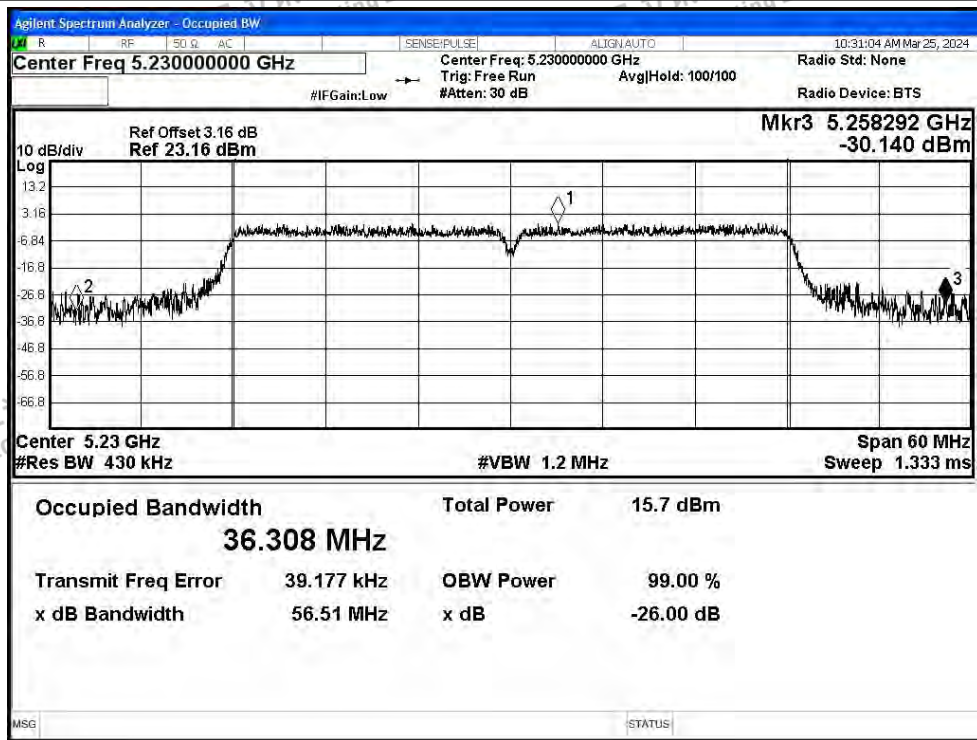


-26dB Bandwidth NVNT ac40 5190MHz Ant2

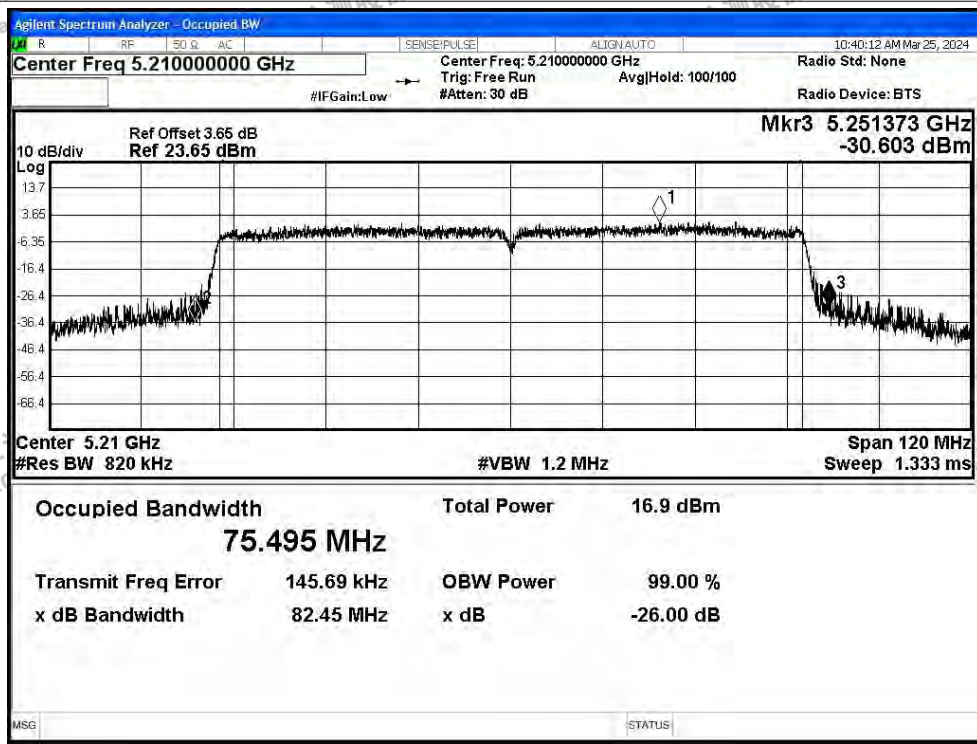




-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2





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	Ant1	12.33	0.57	12.90	24	Pass
NVNT	a	5200	Ant1	12.08	0.87	12.95	24	Pass
NVNT	a	5240	Ant1	11.85	0.84	12.69	24	Pass
NVNT	n20	5180	Ant1	11.14	0.89	12.03	24	Pass
NVNT	n20	5200	Ant1	11.82	0.6	12.42	24	Pass
NVNT	n20	5240	Ant1	11.44	0.64	12.08	24	Pass
NVNT	n40	5190	Ant1	10.64	1.14	11.78	24	Pass
NVNT	n40	5230	Ant1	10.45	1.68	12.13	24	Pass
NVNT	ac20	5180	Ant1	11.08	0.63	11.71	24	Pass
NVNT	ac20	5200	Ant1	11.87	0.63	12.5	24	Pass
NVNT	ac20	5240	Ant1	11.36	0.88	12.24	24	Pass
NVNT	ac40	5190	Ant1	10.77	1.12	11.89	24	Pass
NVNT	ac40	5230	Ant1	10.5	1.18	11.68	24	Pass
NVNT	ac80	5210	Ant1	9.65	1.66	11.31	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	11.51	0.87	12.38	24	Pass
NVNT	a	5200	Ant2	11.07	0.6	11.67	24	Pass
NVNT	a	5240	Ant2	11.82	0.57	12.39	24	Pass
NVNT	n20	5180	Ant2	10.37	0.97	11.34	24	Pass
NVNT	n20	5200	Ant2	10.11	0.66	10.77	24	Pass
NVNT	n20	5240	Ant2	10.01	0.7	10.71	24	Pass
NVNT	n40	5190	Ant2	9.34	0.97	10.31	24	Pass
NVNT	n40	5230	Ant2	9.34	1.01	10.35	24	Pass
NVNT	ac20	5180	Ant2	10.47	0.69	11.16	24	Pass
NVNT	ac20	5200	Ant2	10.4	0.69	11.09	24	Pass
NVNT	ac20	5240	Ant2	10.58	0.69	11.27	24	Pass
NVNT	ac40	5190	Ant2	9.67	0.96	10.63	24	Pass
NVNT	ac40	5230	Ant2	9.32	0.97	10.29	24	Pass
NVNT	ac80	5210	Ant2	8.71	1.8	10.51	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	12.03	11.34	14.71	23.38	Pass
NVNT	n20	5200	12.42	10.77	14.68	23.38	Pass
NVNT	n20	5240	12.08	10.71	14.46	23.38	Pass
NVNT	n40	5190	11.78	10.31	14.12	23.38	Pass
NVNT	n40	5230	12.13	10.35	14.34	23.38	Pass
NVNT	ac20	5180	11.71	11.16	14.45	23.38	Pass
NVNT	ac20	5200	12.5	11.09	14.86	23.38	Pass
NVNT	ac20	5240	12.24	11.27	14.79	23.38	Pass
NVNT	ac40	5190	11.89	10.63	14.32	23.38	Pass
NVNT	ac40	5230	11.68	10.29	14.05	23.38	Pass
NVNT	ac80	5210	11.31	10.51	13.94	23.38	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	Ant1	1.99	0.57	2.56	11	Pass
NVNT	a	5200	Ant1	1.54	0.87	2.41	11	Pass
NVNT	a	5240	Ant1	1.14	0.84	1.98	11	Pass
NVNT	n20	5180	Ant1	1.63	0.89	2.52	11	Pass
NVNT	n20	5200	Ant1	1.15	0.6	1.75	11	Pass
NVNT	n20	5240	Ant1	0.54	0.64	1.18	11	Pass
NVNT	n40	5190	Ant1	-2.94	1.14	-1.8	11	Pass
NVNT	n40	5230	Ant1	-3.07	1.68	-1.39	11	Pass
NVNT	ac20	5180	Ant1	0.33	0.63	0.96	11	Pass
NVNT	ac20	5200	Ant1	1	0.63	1.63	11	Pass
NVNT	ac20	5240	Ant1	0.3	0.88	1.18	11	Pass
NVNT	ac40	5190	Ant1	-2.87	1.12	-1.75	11	Pass
NVNT	ac40	5230	Ant1	-3.28	1.18	-2.1	11	Pass
NVNT	ac80	5210	Ant1	-6.51	1.66	-4.85	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	1.17	0.87	2.04	11	Pass
NVNT	a	5200	Ant2	0.66	0.6	1.26	11	Pass
NVNT	a	5240	Ant2	1.09	0.57	1.66	11	Pass
NVNT	n20	5180	Ant2	-0.22	0.97	0.75	11	Pass
NVNT	n20	5200	Ant2	-0.74	0.66	-0.08	11	Pass
NVNT	n20	5240	Ant2	-0.7	0.7	0	11	Pass
NVNT	n40	5190	Ant2	-4.18	0.97	-3.21	11	Pass
NVNT	n40	5230	Ant2	-4.01	1.01	-3	11	Pass
NVNT	ac20	5180	Ant2	-0.24	0.69	0.45	11	Pass
NVNT	ac20	5200	Ant2	-0.54	0.69	0.15	11	Pass
NVNT	ac20	5240	Ant2	0.1	0.69	0.79	11	Pass
NVNT	ac40	5190	Ant2	-4.01	0.96	-3.05	11	Pass
NVNT	ac40	5230	Ant2	-4.11	0.97	-3.14	11	Pass
NVNT	ac80	5210	Ant2	-7.37	1.8	-5.57	11	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	2.52	0.75	4.73	10.38	Pass
NVNT	n20	5200	1.75	-0.08	3.94	10.38	Pass
NVNT	n20	5240	1.18	0	3.64	10.38	Pass
NVNT	n40	5190	-1.8	-3.21	0.56	10.38	Pass
NVNT	n40	5230	-1.39	-3	0.89	10.38	Pass
NVNT	ac20	5180	0.96	0.45	3.72	10.38	Pass
NVNT	ac20	5200	1.63	0.15	3.96	10.38	Pass
NVNT	ac20	5240	1.18	0.79	4.00	10.38	Pass
NVNT	ac40	5190	-1.75	-3.05	0.66	10.38	Pass
NVNT	ac40	5230	-2.1	-3.14	0.42	10.38	Pass
NVNT	ac80	5210	-4.85	-5.57	-2.18	10.38	Pass

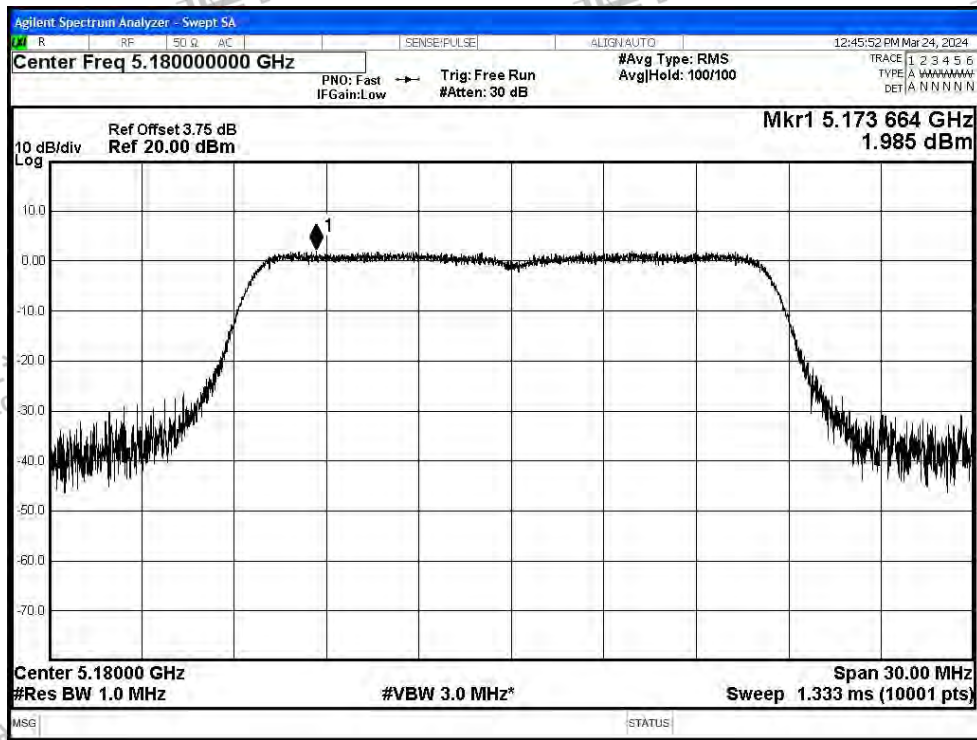


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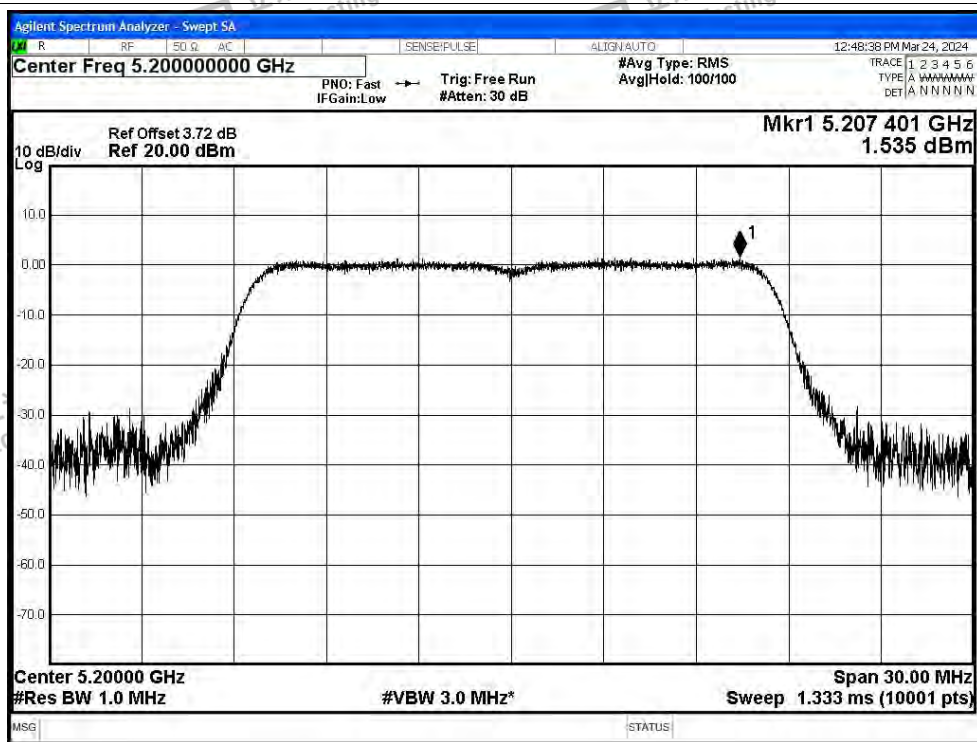


Test Graphs

PSD NVNT a 5180MHz Ant1

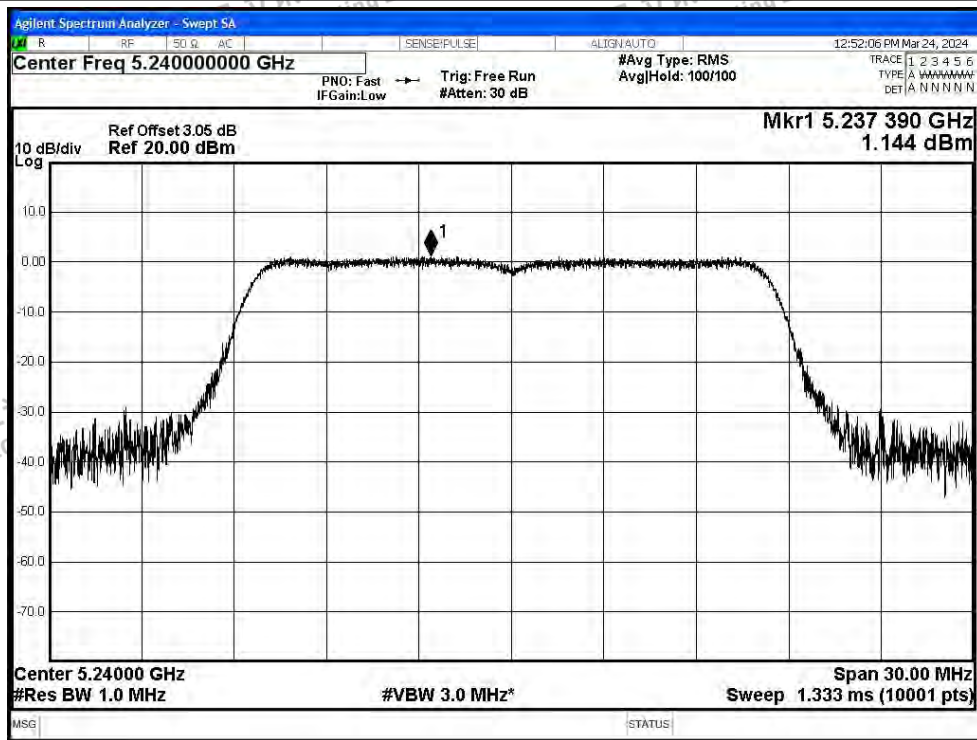


PSD NVNT a 5200MHz Ant1

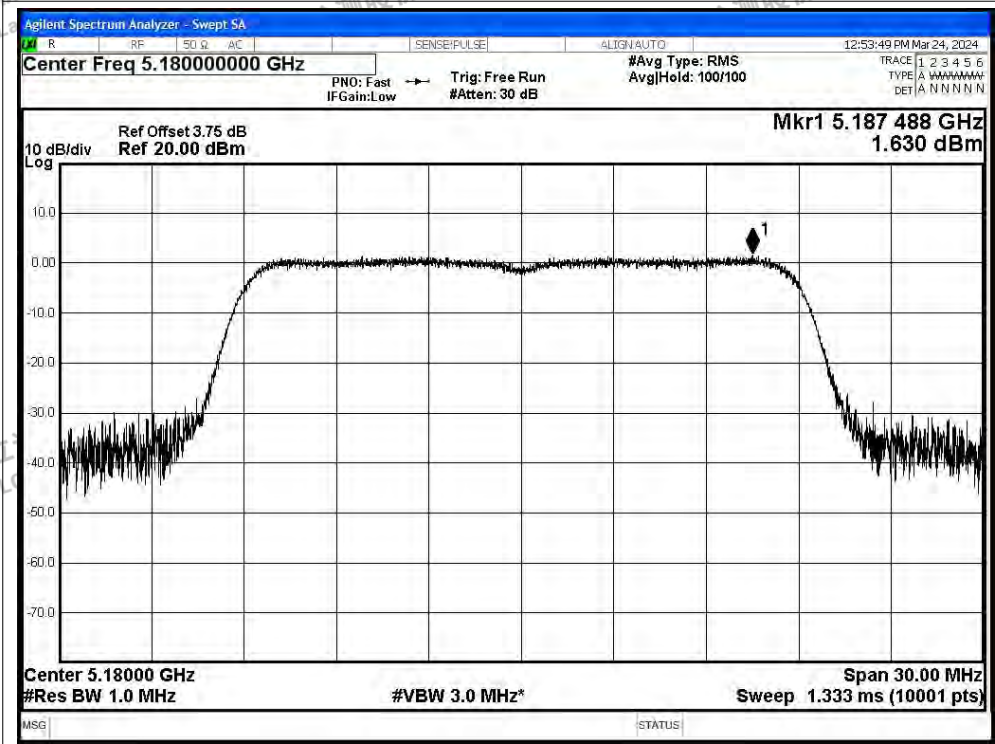




PSD NVNT a 5240MHz Ant1

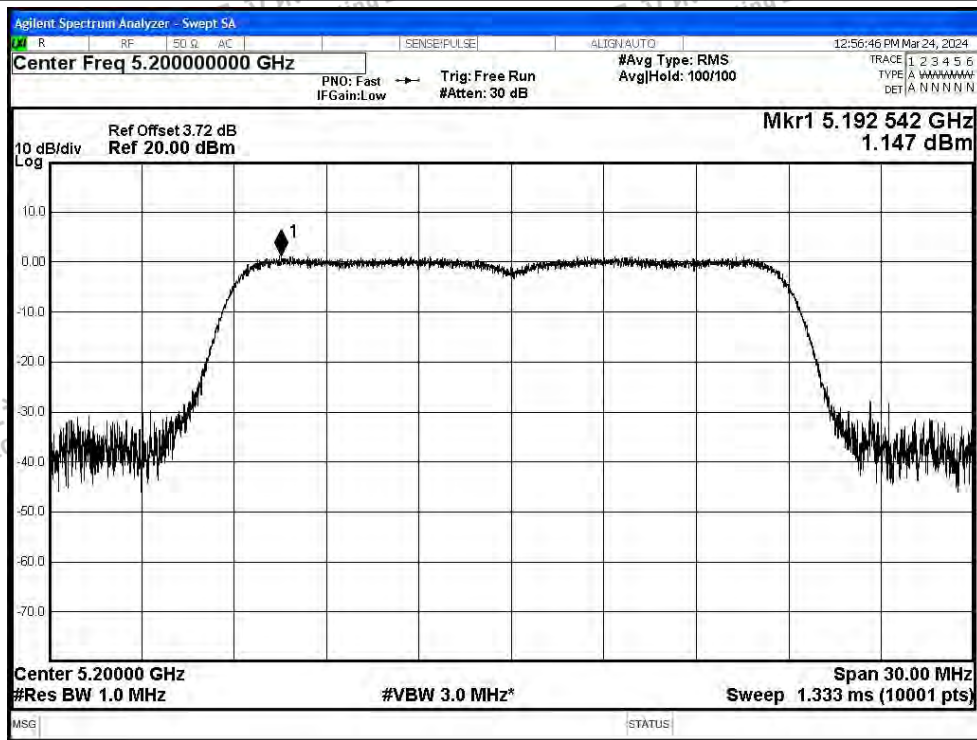


PSD NVNT n20 5180MHz Ant1

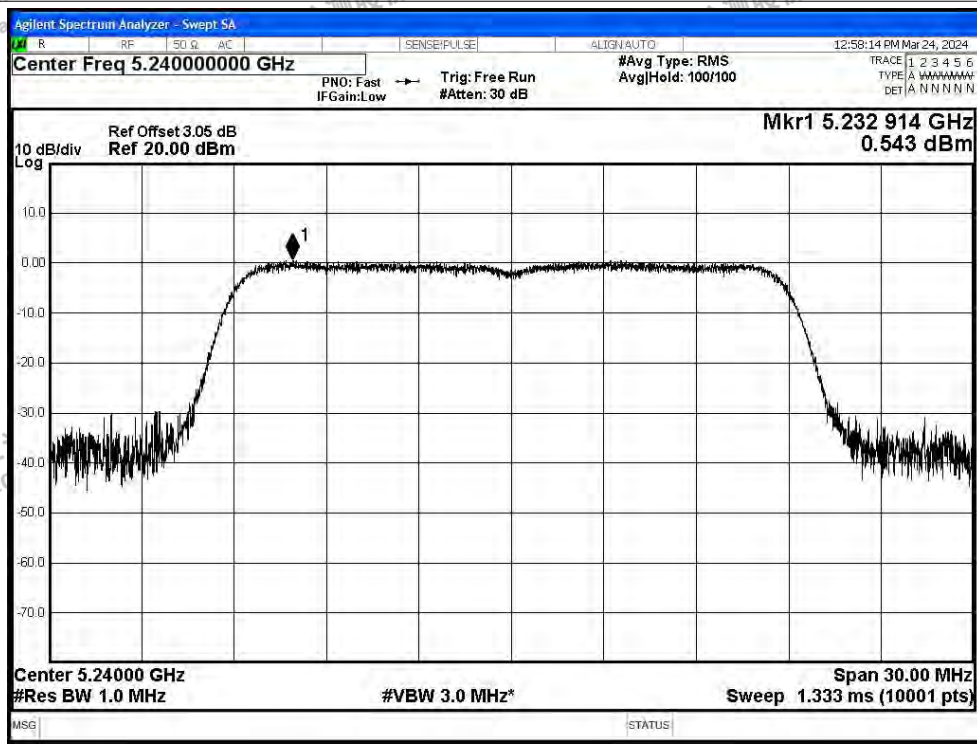




PSD NVNT n20 5200MHz Ant1

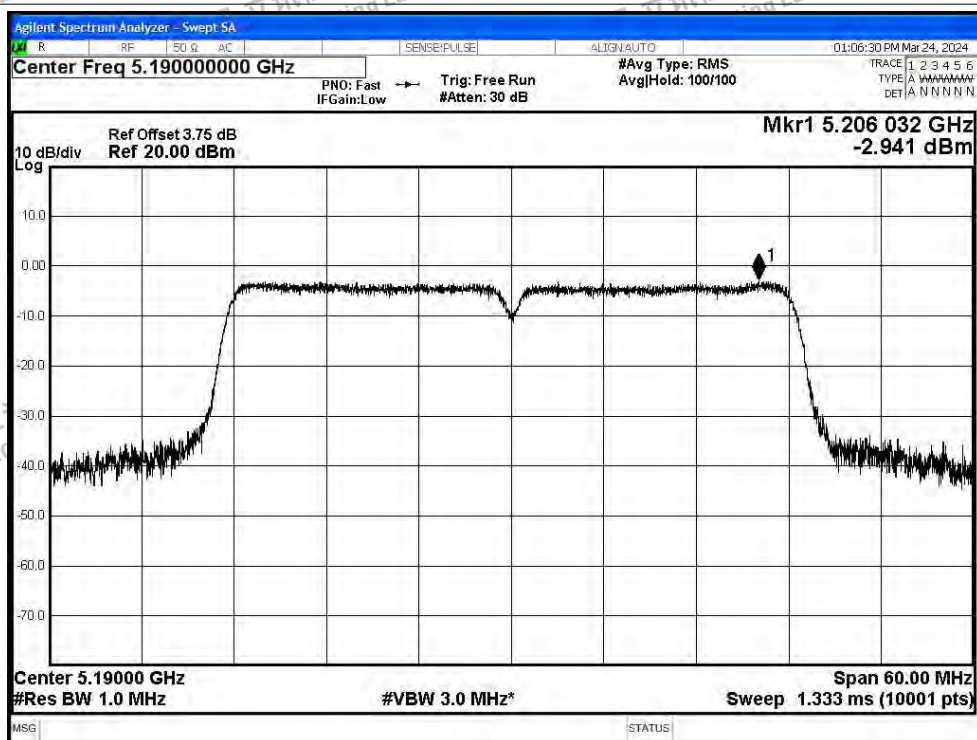


PSD NVNT n20 5240MHz Ant1

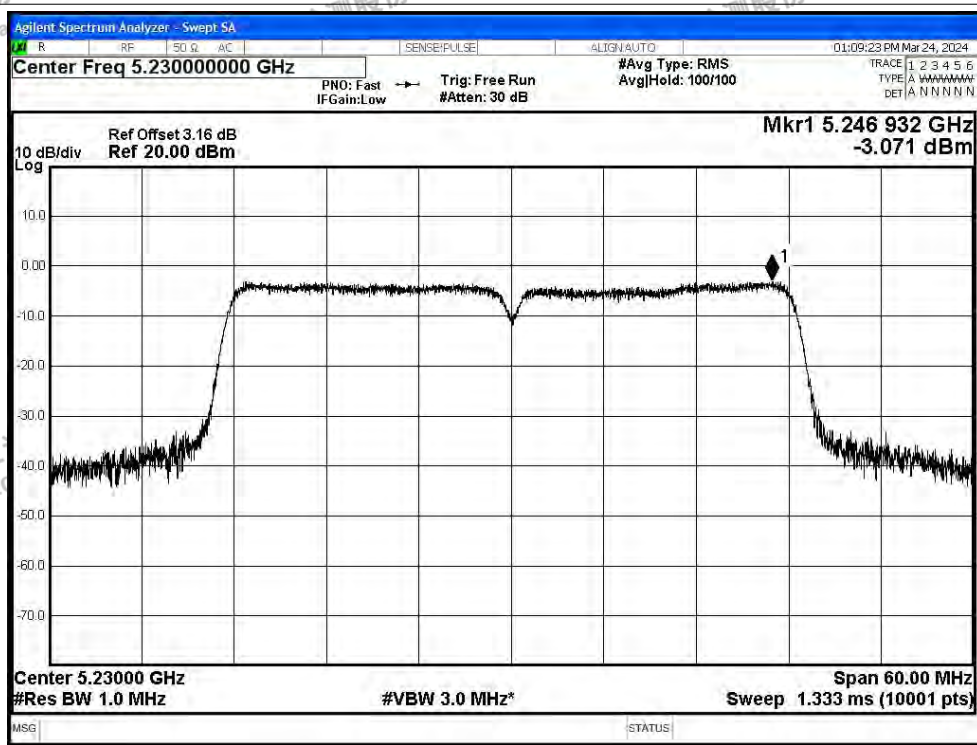




PSD NVNT n40 5190MHz Ant1

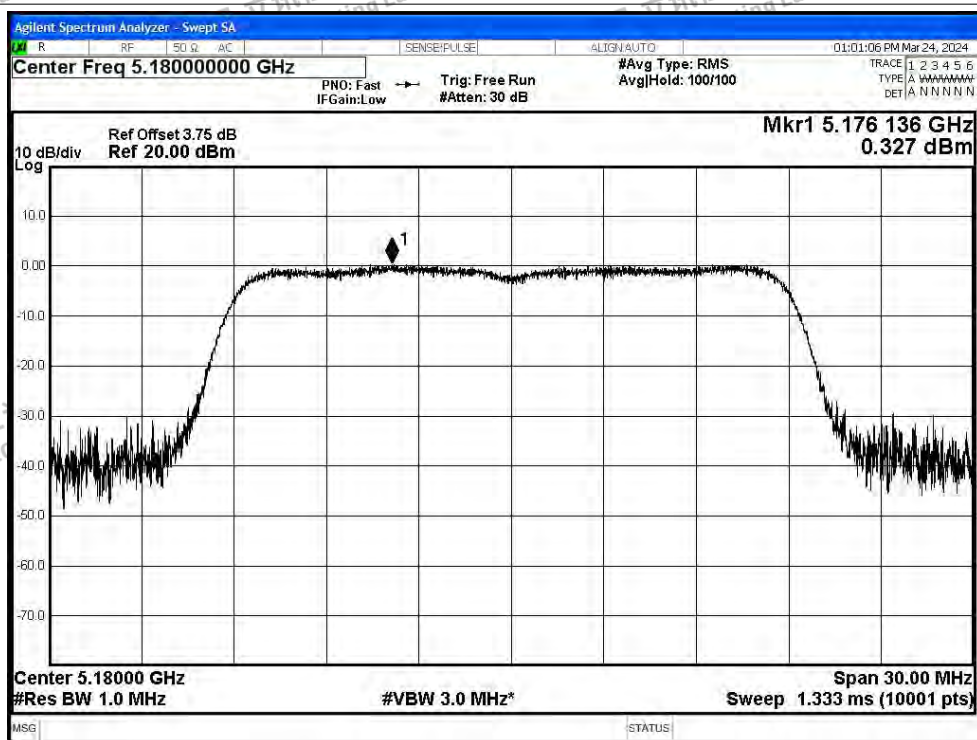


PSD NVNT n40 5230MHz Ant1

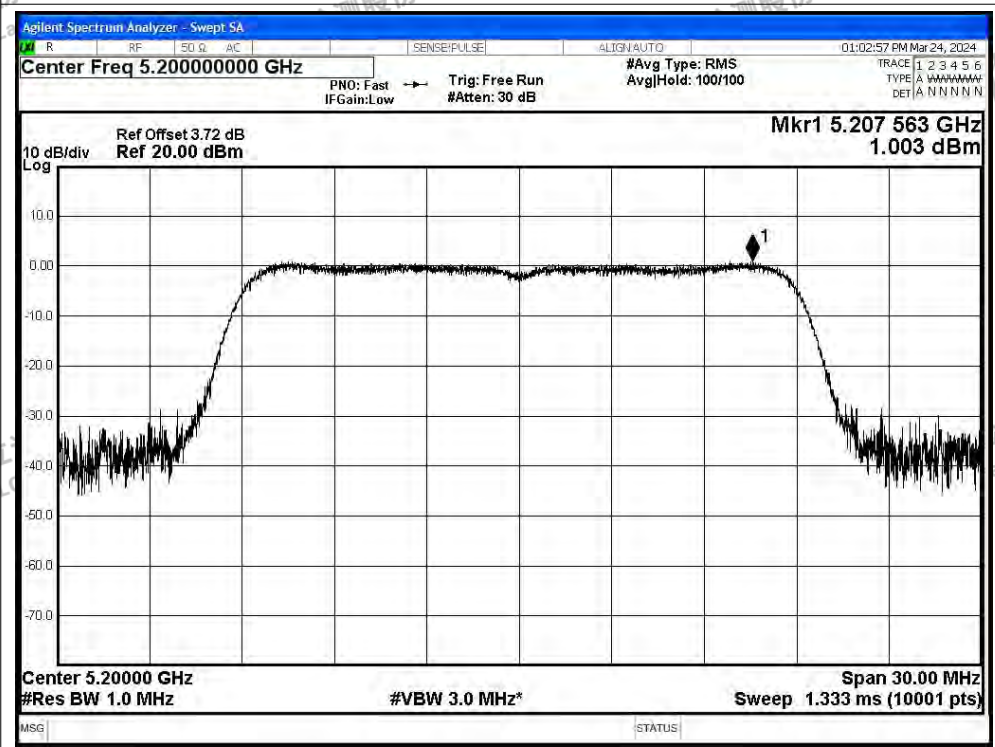




PSD NVNT ac20 5180MHz Ant1

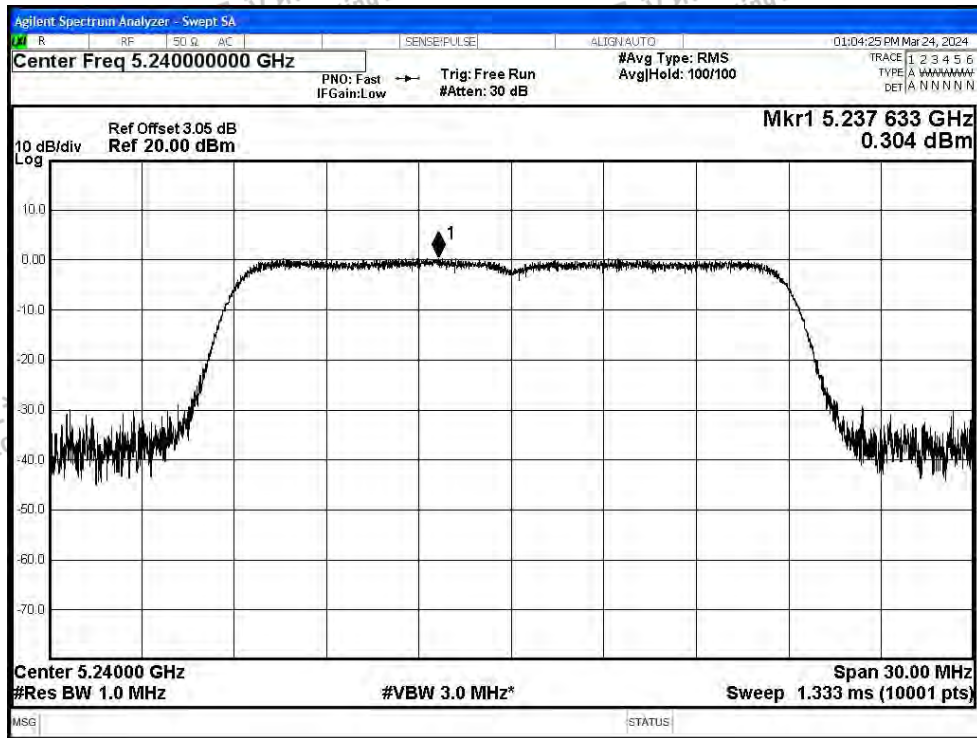


PSD NVNT ac20 5200MHz Ant1

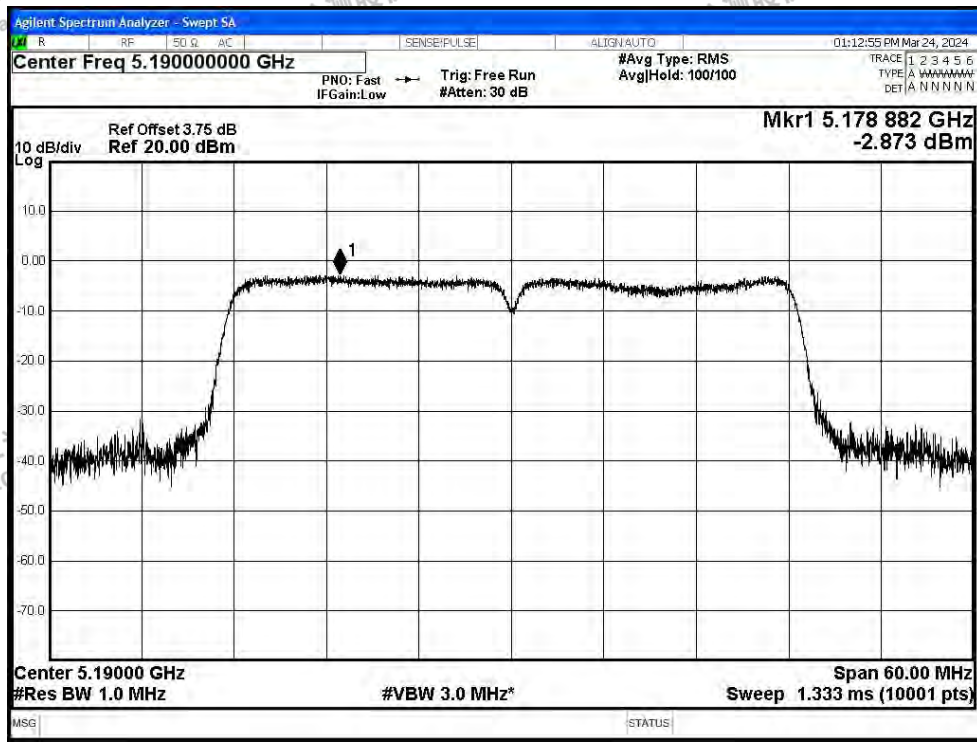




PSD NVNT ac20 5240MHz Ant1

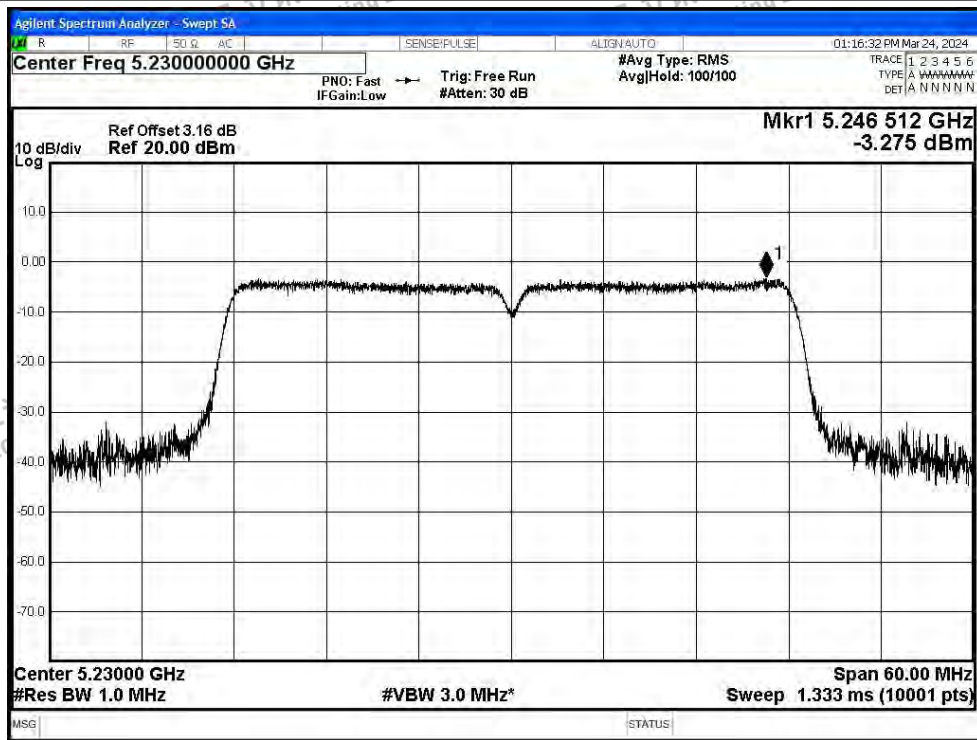


PSD NVNT ac40 5190MHz Ant1

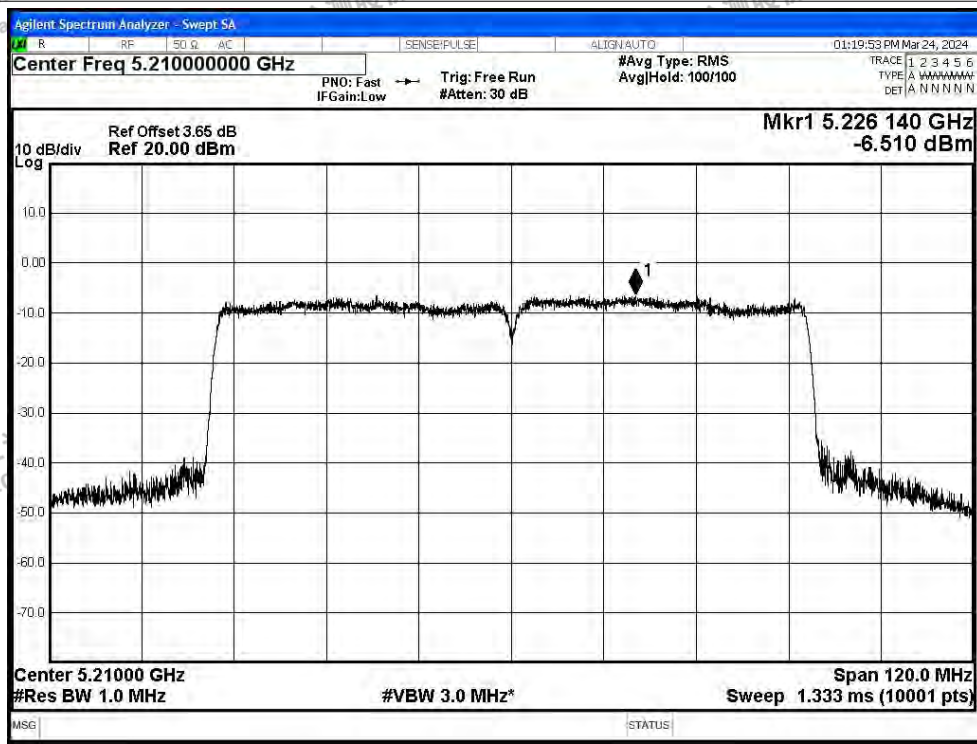




PSD NVNT ac40 5230MHz Ant1



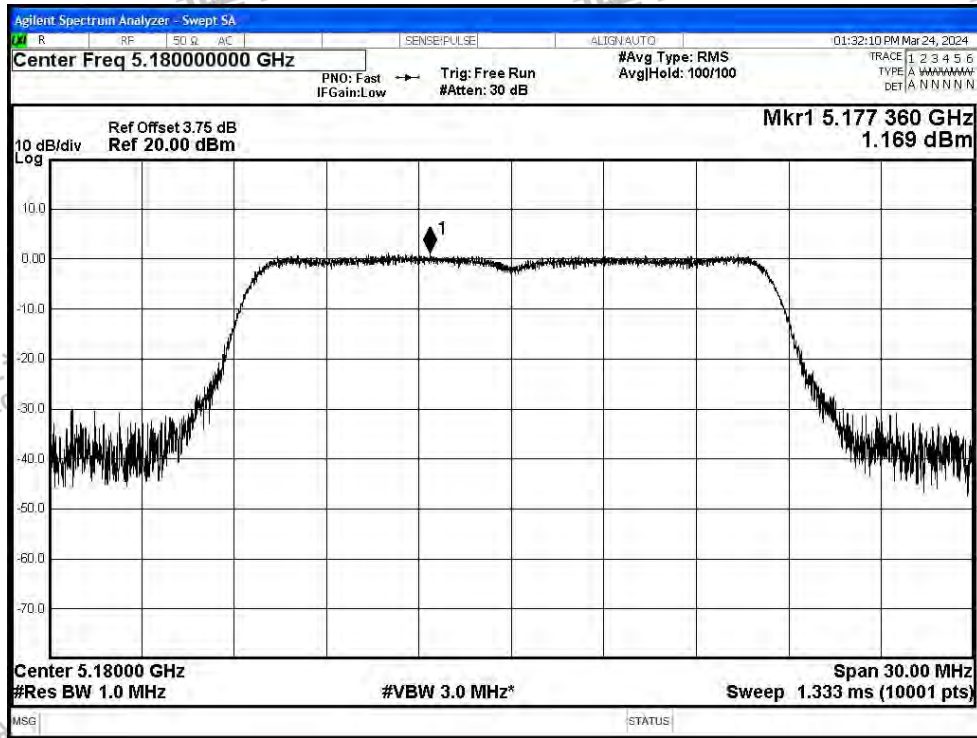
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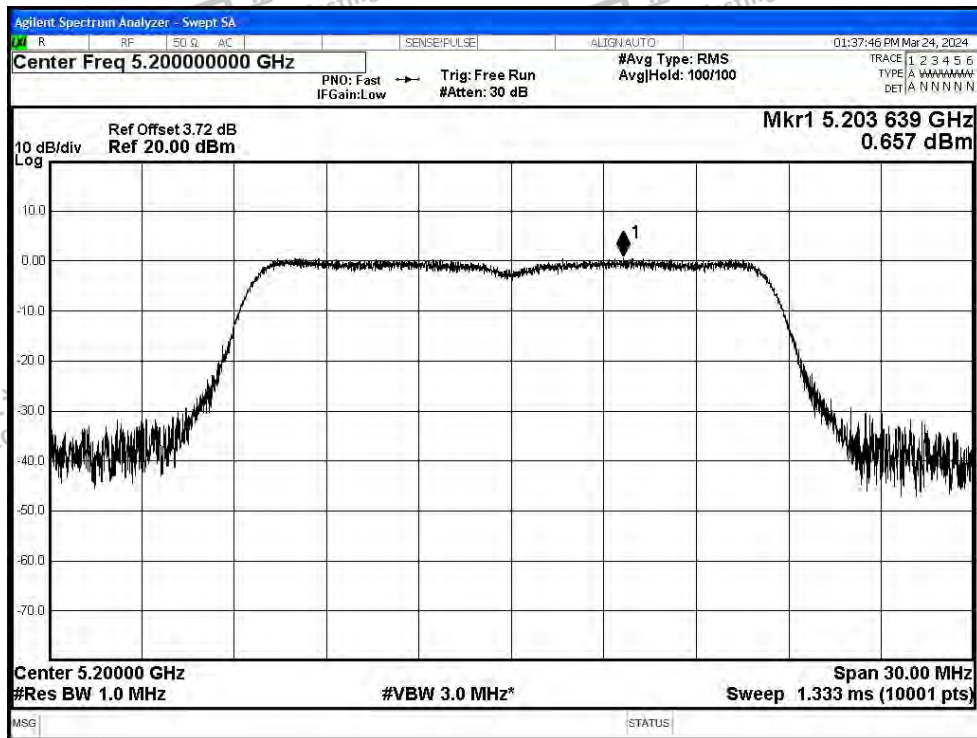


Test Graphs

PSD NVNT a 5180MHz Ant2

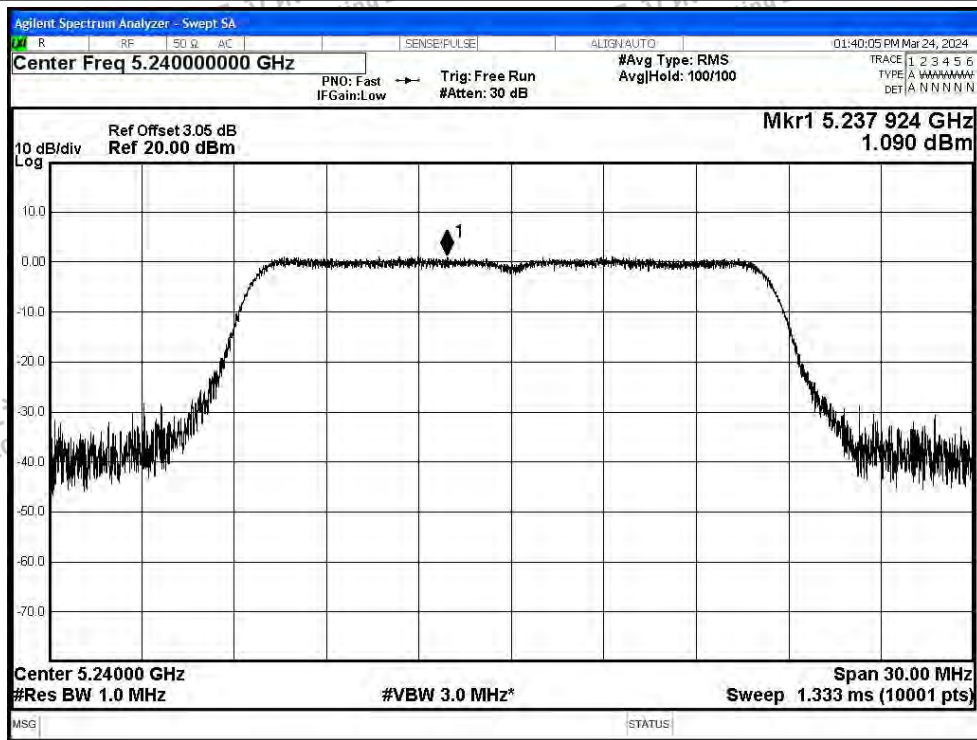


PSD NVNT a 5200MHz Ant2

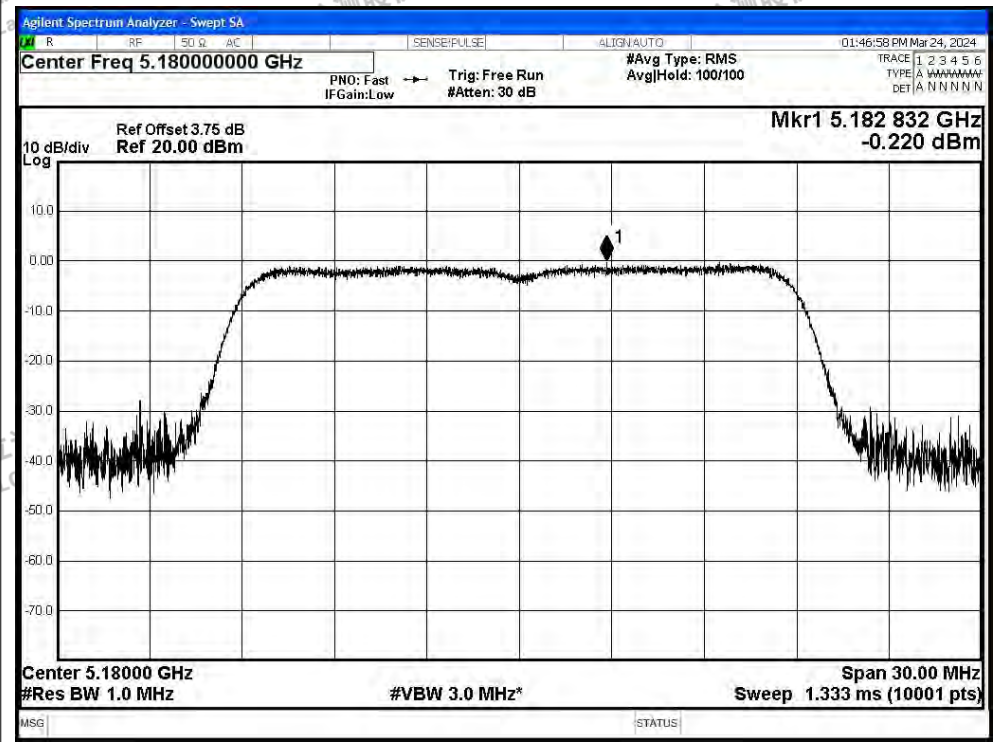




PSD NVNT a 5240MHz Ant2

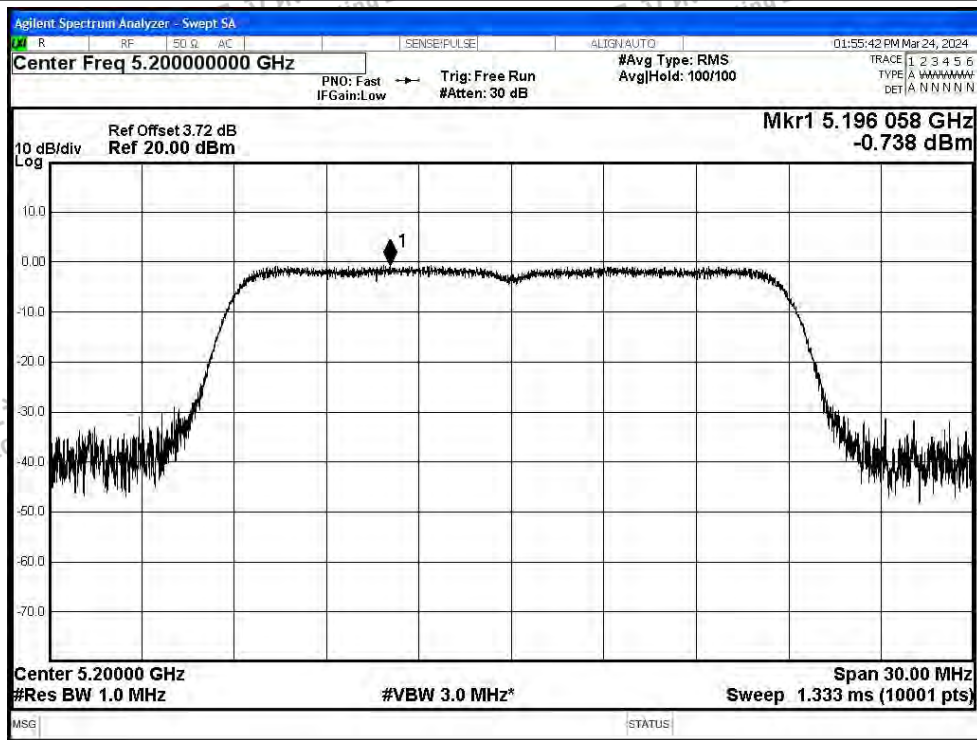


PSD NVNT n20 5180MHz Ant2

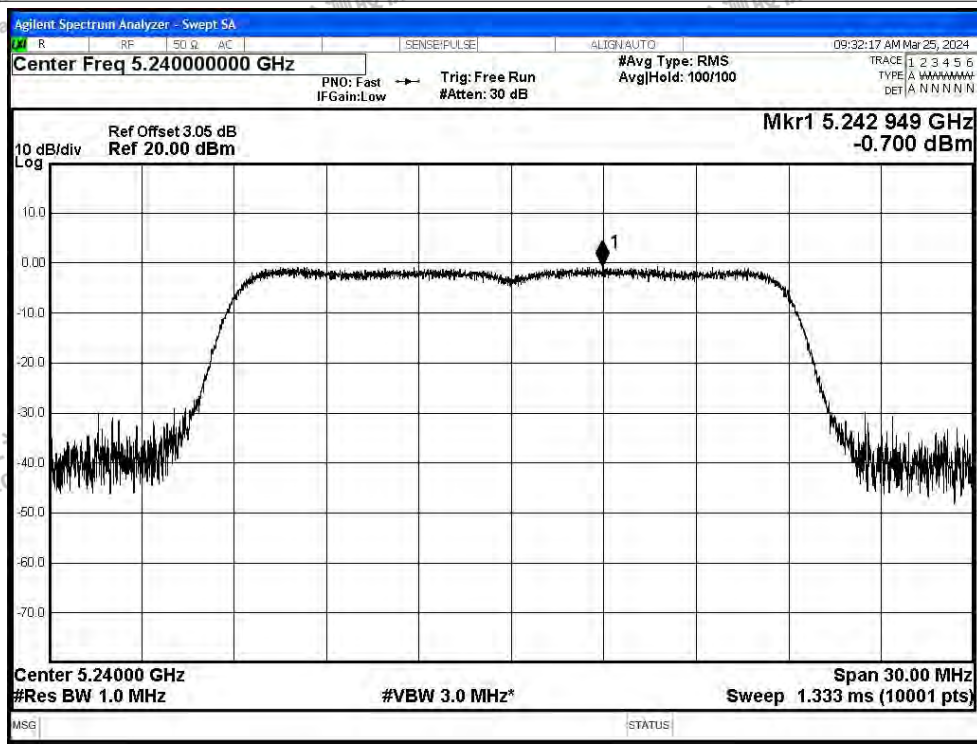




PSD NVNT n20 5200MHz Ant2

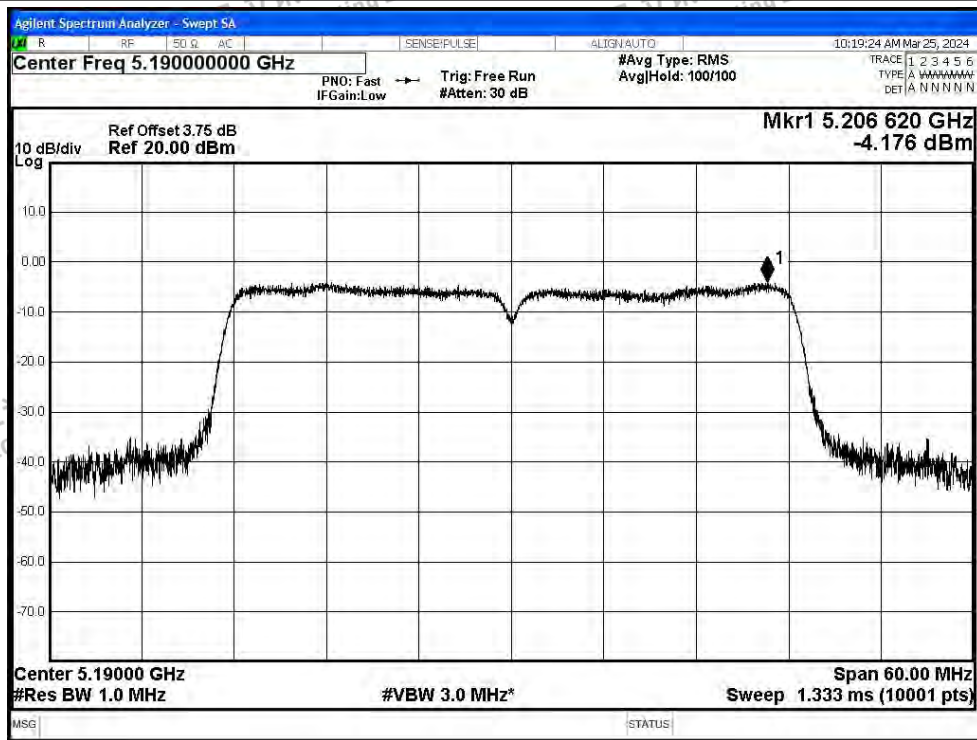


PSD NVNT n20 5240MHz Ant2

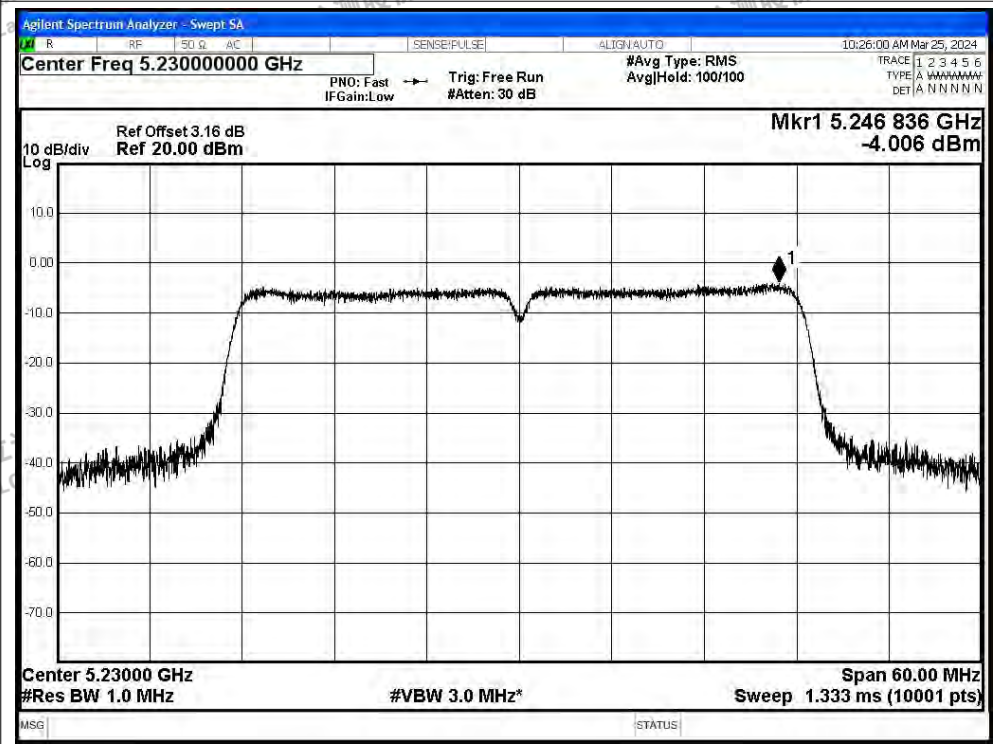




PSD NVNT n40 5190MHz Ant2

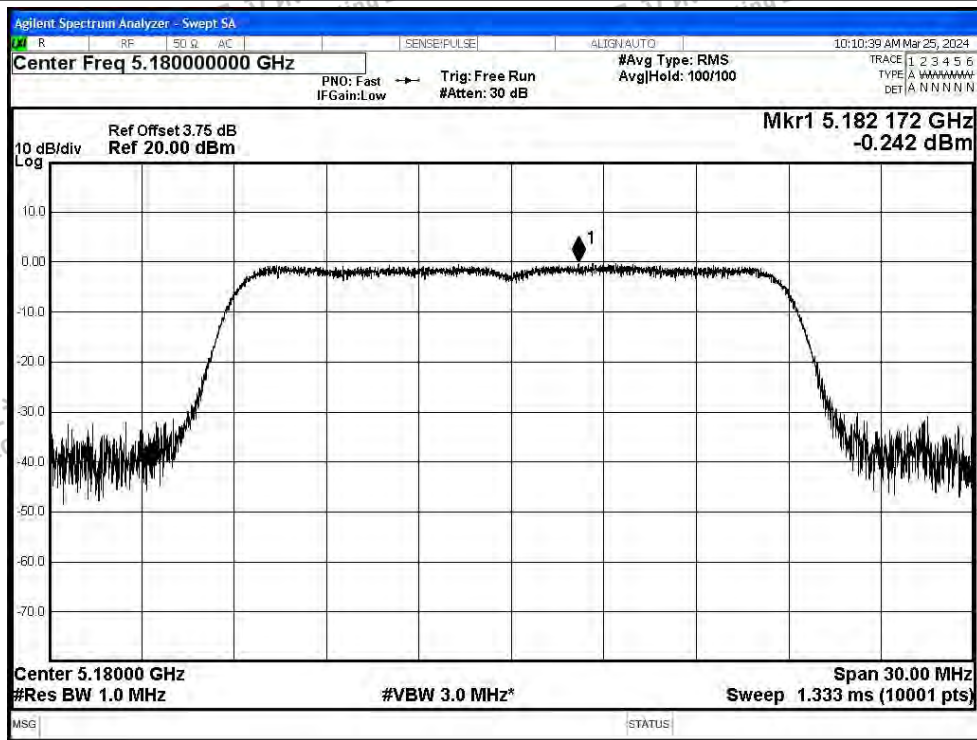


PSD NVNT n40 5230MHz Ant2

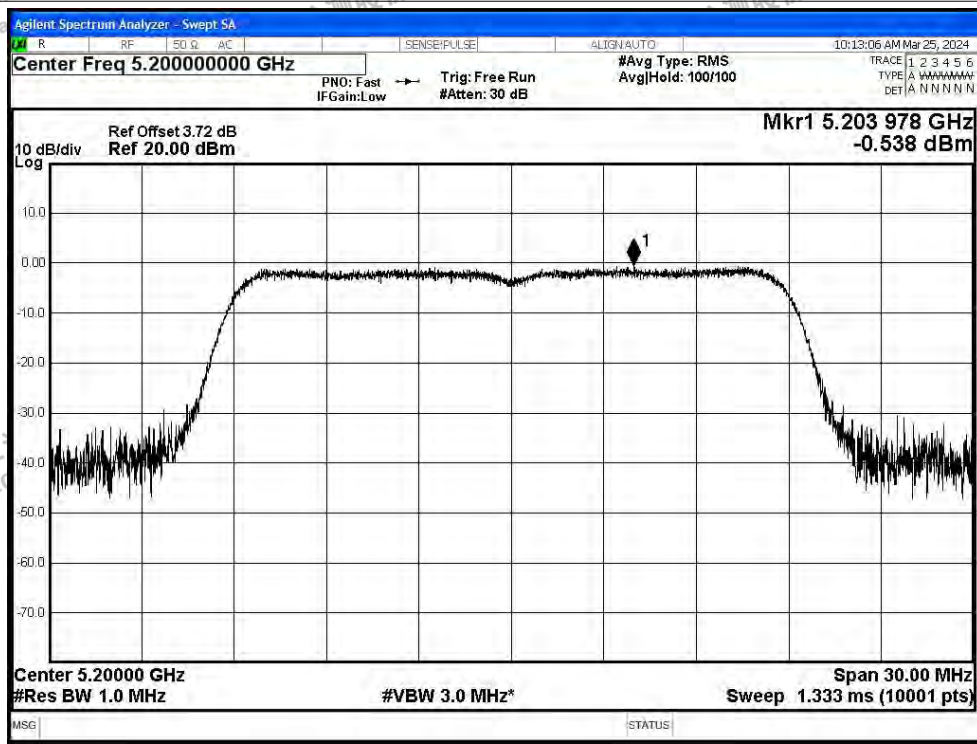




PSD NVNT ac20 5180MHz Ant2

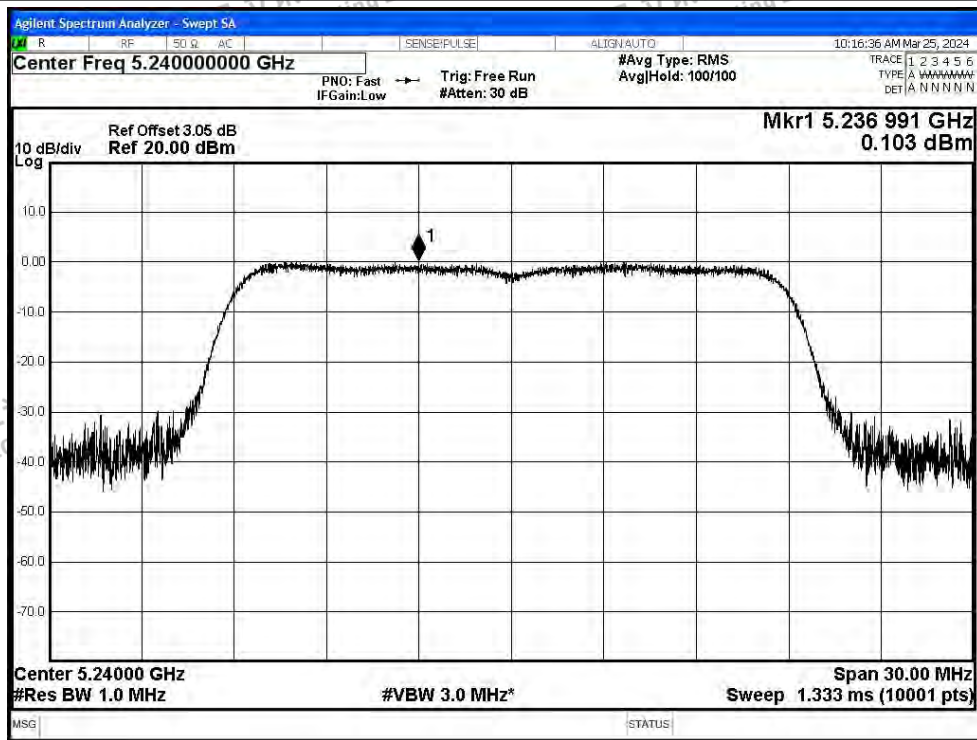


PSD NVNT ac20 5200MHz Ant2

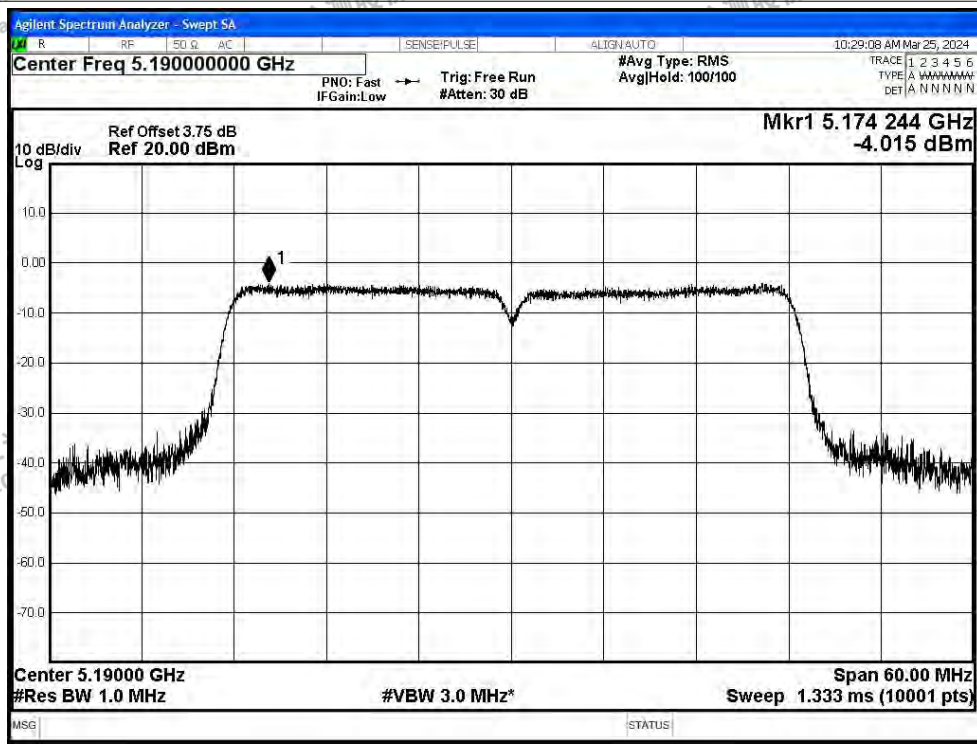




PSD NVNT ac20 5240MHz Ant2

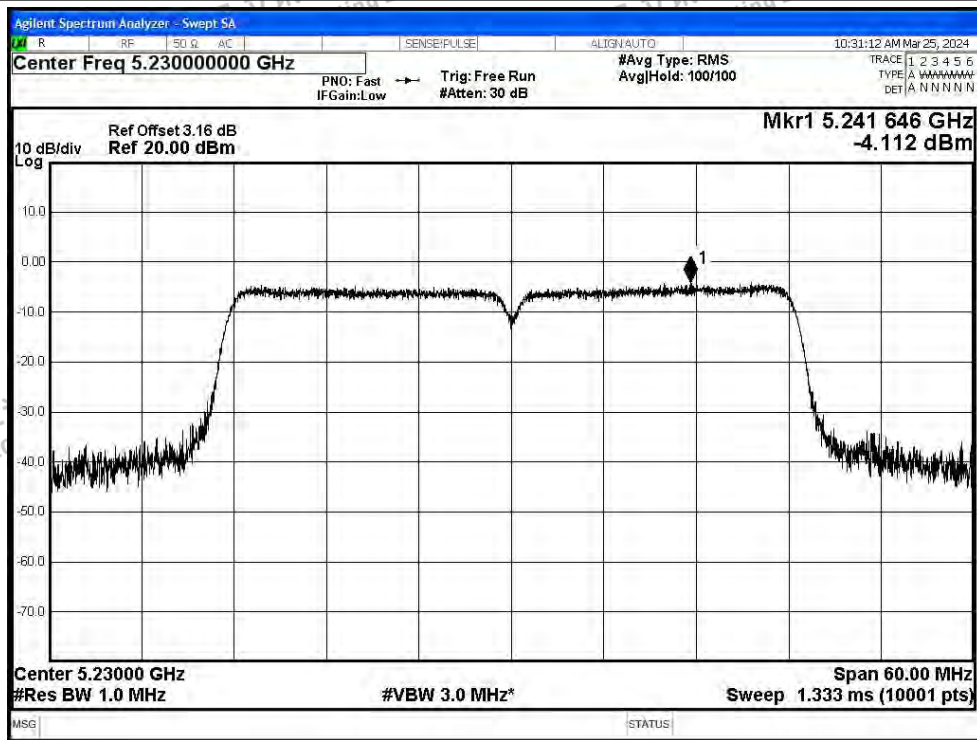


PSD NVNT ac40 5190MHz Ant2

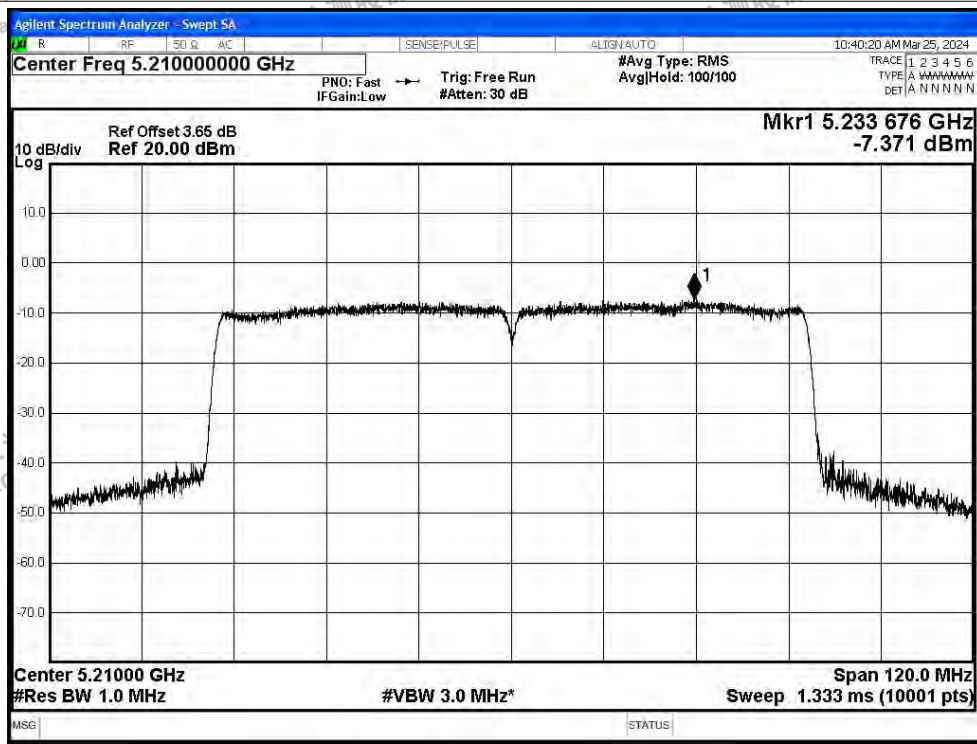




PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant2





D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-49.59	3.61	-	49.28	Peak	74	Pass
NVNT	a	5180	4500	-58.34	3.61	0.57	40.53	Average	54	Pass
NVNT	a	5180	5149.6	-33.71	3.61	-	65.16	Peak	74	Pass
NVNT	a	5180	5147.5	-50.84	3.61	0.57	48.03	Average	54	Pass
NVNT	a	5180	5150	-34.84	3.61	-	64.03	Peak	74	Pass
NVNT	a	5180	5150	-49.44	3.61	0.57	49.43	Average	54	Pass
NVNT	a	5240	5350	-48.96	3.61	-	49.91	Peak	74	Pass
NVNT	a	5240	5350	-57.53	3.61	0.84	41.34	Average	54	Pass
NVNT	a	5240	5429.28	-46.32	3.61	-	52.55	Peak	74	Pass
NVNT	a	5240	5401.68	-56.87	3.61	0.84	42.00	Average	54	Pass
NVNT	a	5240	5460	-51.64	3.61	-	47.23	Peak	74	Pass
NVNT	a	5240	5460	-58.1	3.61	0.84	40.77	Average	54	Pass
NVNT	n20mimo	5180	4500	-49.77	6.62	-	52.11	Peak	74	Pass
NVNT	n20mimo	5180	4500	-57.9	6.62	0.89	43.98	Average	54	Pass
NVNT	n20mimo	5180	5148.9	-38.09	6.62	-	63.79	Peak	74	Pass
NVNT	n20mimo	5180	5149.6	-49.96	6.62	0.89	51.92	Average	54	Pass
NVNT	n20mimo	5180	5150	-32.31	6.62	-	69.57	Peak	74	Pass
NVNT	n20mimo	5180	5150	-50.48	6.62	0.89	51.40	Average	54	Pass
NVNT	n20mimo	5240	5350	-50.58	6.62	-	51.30	Peak	74	Pass
NVNT	n20mimo	5240	5350	-57.81	6.62	0.64	44.07	Average	54	Pass
NVNT	n20mimo	5240	5428.56	-46.99	6.62	-	54.89	Peak	74	Pass
NVNT	n20mimo	5240	5374.8	-57.2	6.62	0.64	44.68	Average	54	Pass
NVNT	n20mimo	5240	5460	-48.55	6.62	-	53.33	Peak	74	Pass
NVNT	n20mimo	5240	5460	-57.91	6.62	0.64	43.97	Average	54	Pass
NVNT	n40mimo	5190	4500	-50.45	6.62	-	51.43	Peak	74	Pass
NVNT	n40mimo	5190	4500	-58.68	6.62	1.14	43.20	Average	54	Pass
NVNT	n40mimo	5190	5148.97	-31.38	6.62	-	70.50	Peak	74	Pass
NVNT	n40mimo	5190	5149.7	-48.62	6.62	1.14	53.26	Average	54	Pass
NVNT	n40mimo	5190	5150	-32.26	6.62	-	69.62	Peak	74	Pass
NVNT	n40mimo	5190	5150	-48.62	6.62	1.14	53.26	Average	54	Pass
NVNT	n40mimo	5230	5350	-49.54	6.62	-	52.34	Peak	74	Pass
NVNT	n40mimo	5230	5350	-57.7	6.62	1.68	44.18	Average	54	Pass
NVNT	n40mimo	5230	5369.82	-47.05	6.62	-	54.83	Peak	74	Pass
NVNT	n40mimo	5230	5375.76	-57.1	6.62	1.68	44.78	Average	54	Pass
NVNT	n40mimo	5230	5460	-49.75	6.62	-	52.13	Peak	74	Pass
NVNT	n40mimo	5230	5460	-57.83	6.62	1.68	44.05	Average	54	Pass



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NVNT	ac20mimo	5180	4500	-48.94	6.62	-	52.94	Peak	74	Pass
NVNT	ac20mimo	5180	4500	-58.39	6.62	0.63	43.49	Average	54	Pass
NVNT	ac20mimo	5180	5148.2	-36.65	6.62	-	65.23	Peak	74	Pass
NVNT	ac20mimo	5180	5148.9	-50.85	6.62	0.63	51.03	Average	54	Pass
NVNT	ac20mimo	5180	5150	-36.29	6.62	-	65.59	Peak	74	Pass
NVNT	ac20mimo	5180	5150	-49.26	6.62	0.63	52.62	Average	54	Pass
NVNT	ac20mimo	5240	5350	-49.71	6.62	-	52.17	Peak	74	Pass
NVNT	ac20mimo	5240	5350	-57.95	6.62	0.88	43.93	Average	54	Pass
NVNT	ac20mimo	5240	5382.24	-46.77	6.62	-	55.11	Peak	74	Pass
NVNT	ac20mimo	5240	5361.84	-57.25	6.62	0.88	44.63	Average	54	Pass
NVNT	ac20mimo	5240	5460	-49.34	6.62	-	52.54	Peak	74	Pass
NVNT	ac20mimo	5240	5460	-58.38	6.62	0.88	43.50	Average	54	Pass
NVNT	ac40mimo	5190	4500	-49.8	6.62	-	52.08	Peak	74	Pass
NVNT	ac40mimo	5190	4500	-58.42	6.62	1.12	43.46	Average	54	Pass
NVNT	ac40mimo	5190	5144.59	-37.26	6.62	-	64.62	Peak	74	Pass
NVNT	ac40mimo	5190	5149.7	-49.21	6.62	1.12	52.67	Average	54	Pass
NVNT	ac40mimo	5190	5150	-38.94	6.62	-	62.94	Peak	74	Pass
NVNT	ac40mimo	5190	5150	-49.21	6.62	1.12	52.67	Average	54	Pass
NVNT	ac40mimo	5230	5350	-49.68	6.62	-	52.20	Peak	74	Pass
NVNT	ac40mimo	5230	5350	-57.81	6.62	1.18	44.07	Average	54	Pass
NVNT	ac40mimo	5230	5400.87	-47.02	6.62	-	54.86	Peak	74	Pass
NVNT	ac40mimo	5230	5352.81	-57.18	6.62	1.18	44.70	Average	54	Pass
NVNT	ac40mimo	5230	5460	-49.86	6.62	-	52.02	Peak	74	Pass
NVNT	ac40mimo	5230	5460	-58.5	6.62	1.18	43.38	Average	54	Pass
NVNT	ac80mimo	5210	5350	-48.31	6.62	-	53.57	Peak	74	Pass
NVNT	ac80mimo	5210	5350	-56.7	6.62	1.66	45.18	Average	54	Pass
NVNT	ac80mimo	5210	5395.32	-45.91	6.62	-	55.97	Peak	74	Pass
NVNT	ac80mimo	5210	5367.6	-56.22	6.62	1.66	45.66	Average	54	Pass
NVNT	ac80mimo	5210	5460	-50.36	6.62	-	51.52	Peak	74	Pass
NVNT	ac80mimo	5210	5460	-57.19	6.62	1.66	44.69	Average	54	Pass
NVNT	ac80mimo	5210	4500	-49.08	6.62	-	52.80	Peak	74	Pass
NVNT	ac80mimo	5210	4500	-58.06	6.62	1.66	43.82	Average	54	Pass
NVNT	ac80mimo	5210	5147.8	-36.45	6.62	-	65.43	Peak	74	Pass
NVNT	ac80mimo	5210	5149.38	-48.4	6.62	1.66	53.48	Average	54	Pass
NVNT	ac80mimo	5210	5150	-38.63	6.62	-	63.25	Peak	74	Pass
NVNT	ac80mimo	5210	5150	-48.94	6.62	1.66	52.94	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna1 data.

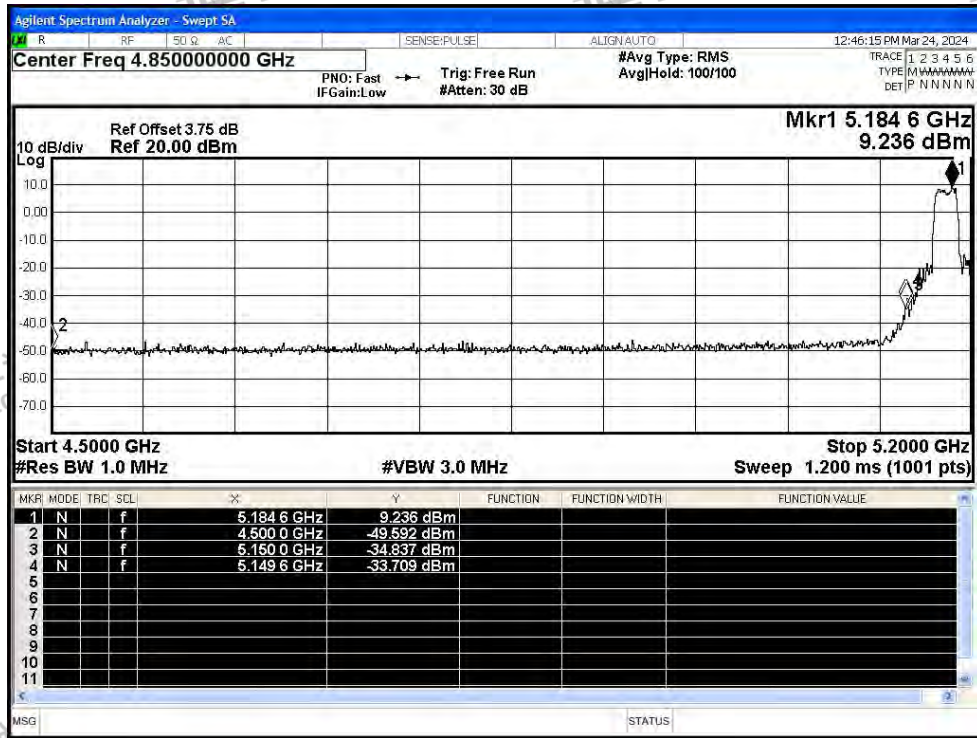


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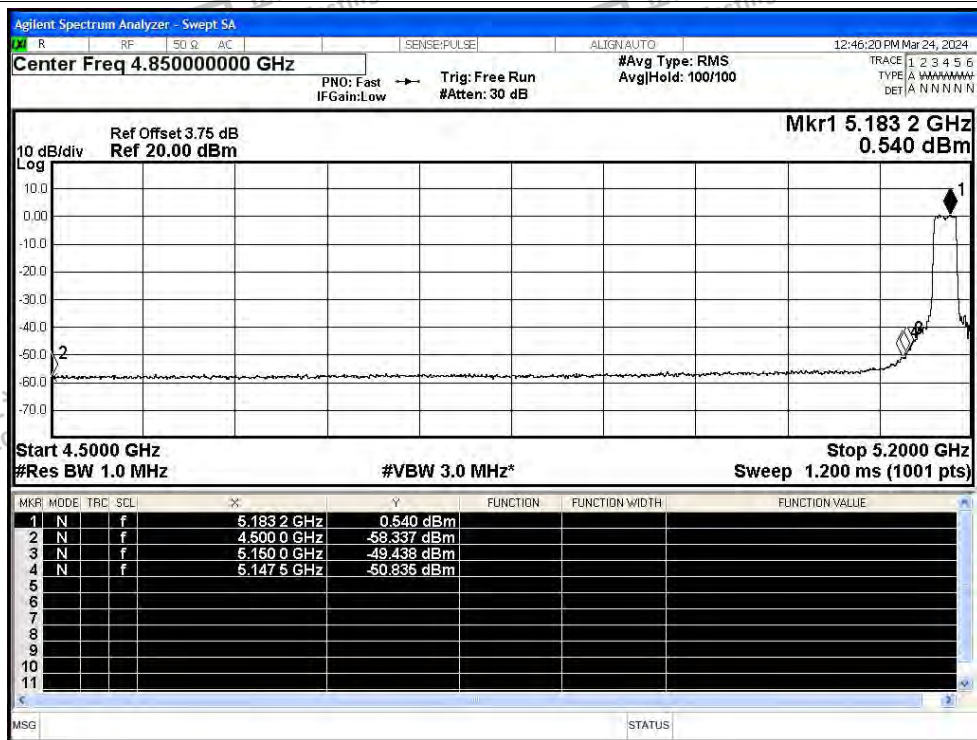


Test Graphs

Restrict Band NVNT a 5180MHz Peak

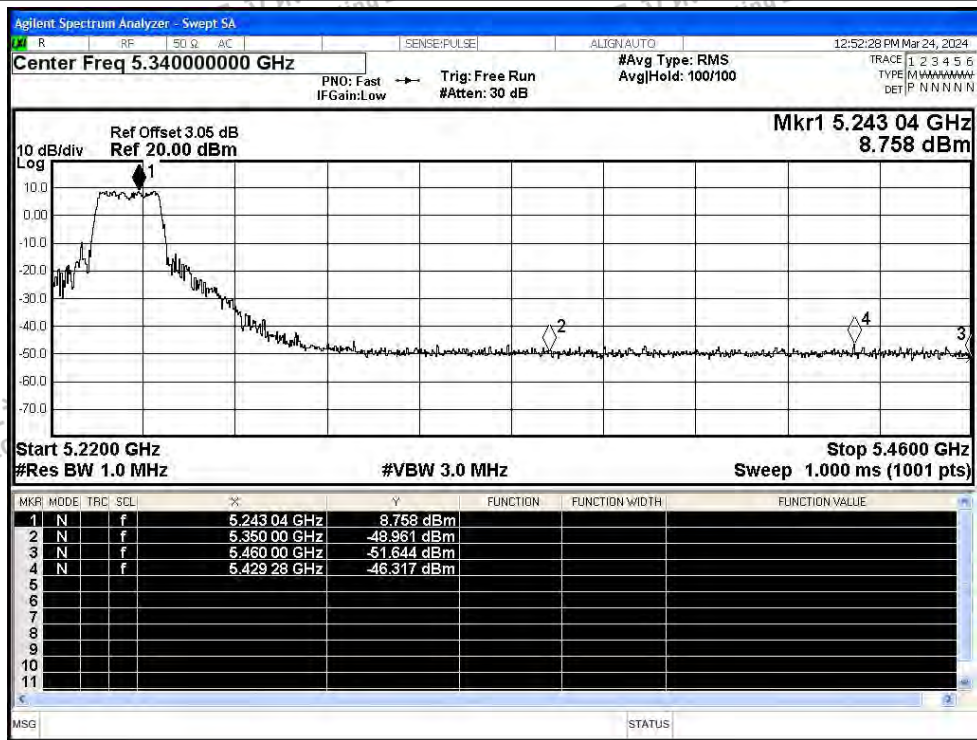


Restrict Band NVNT a 5180MHz Average

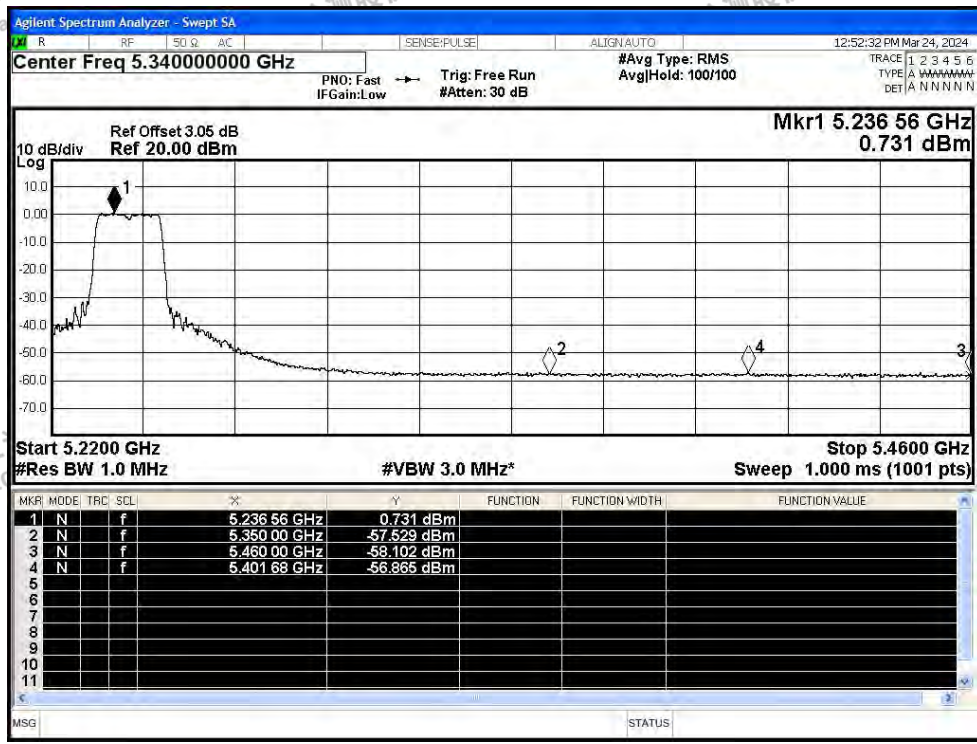




Restrict Band NVNT a 5240MHz Peak

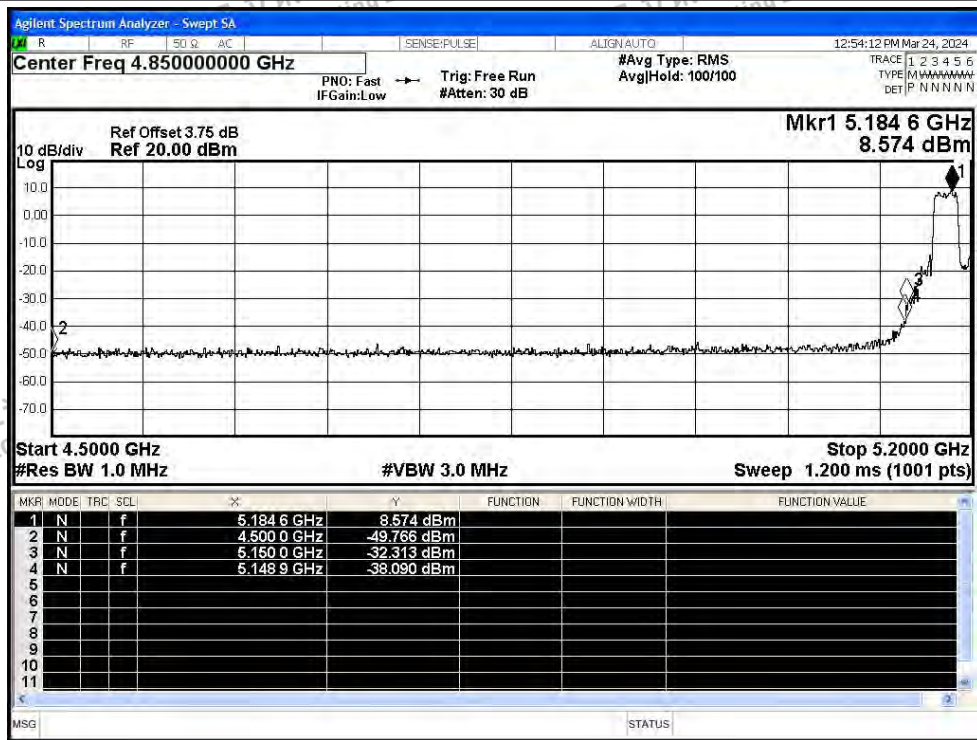


Restrict Band NVNT a 5240MHz Average

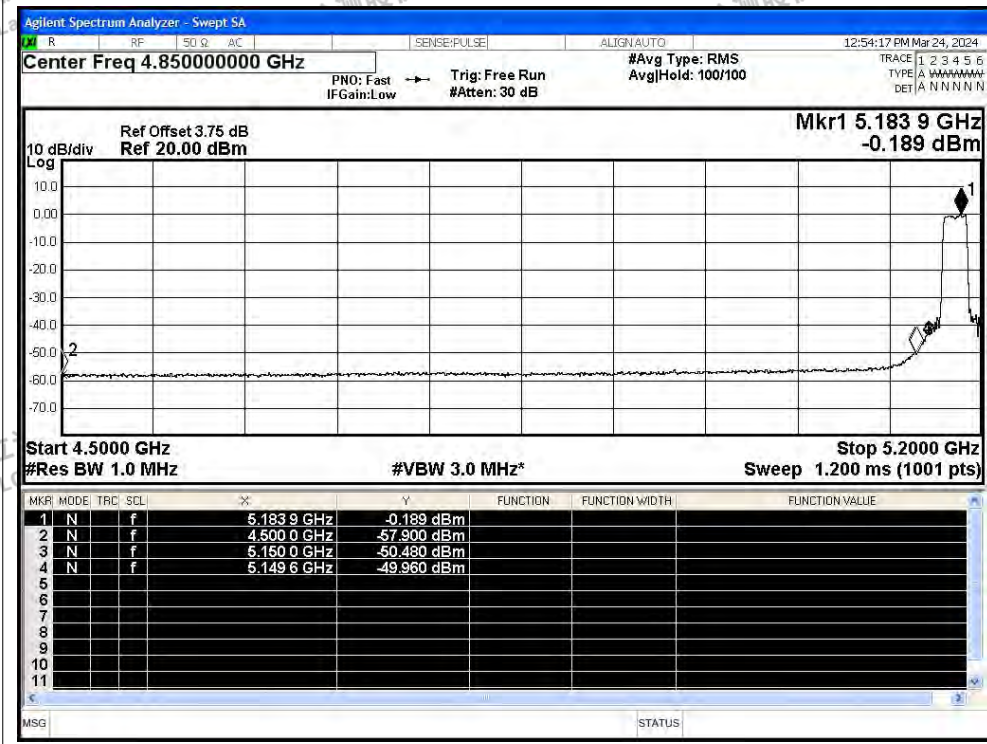




Restrict Band NVNT n20 5180MHz Peak

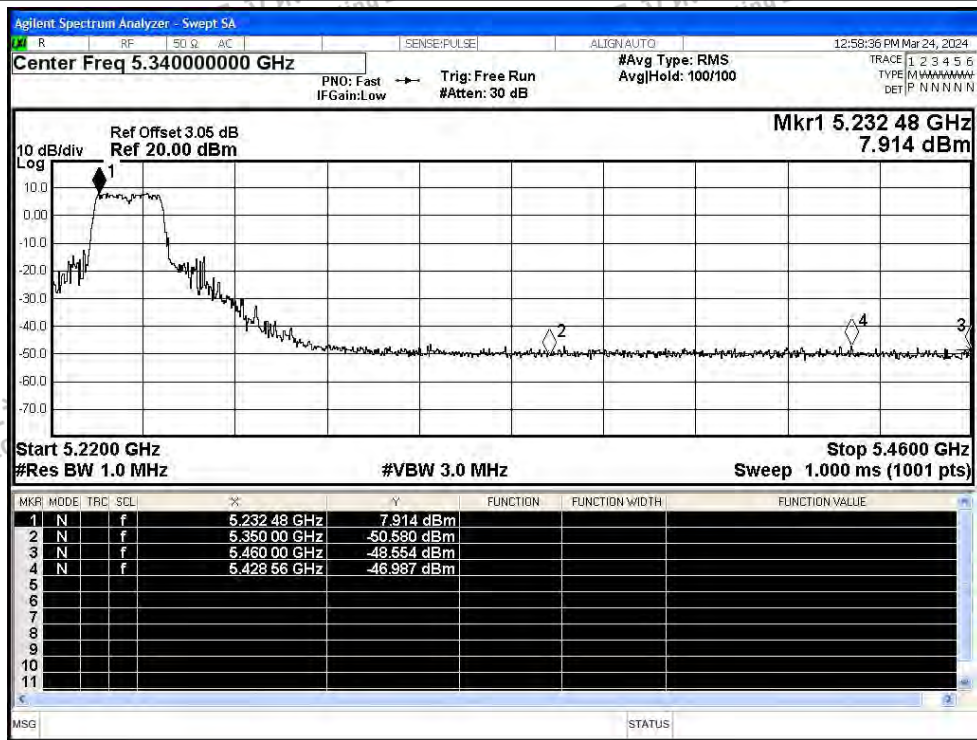


Restrict Band NVNT n20 5180MHz Average

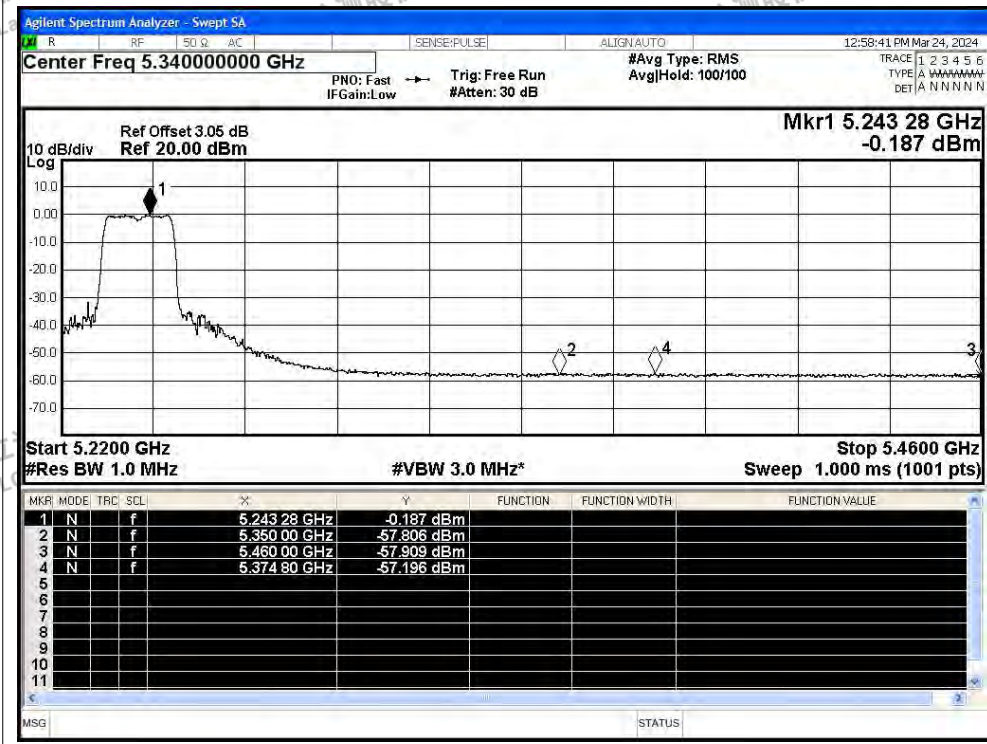




Restrict Band NVNT n20 5240MHz Peak

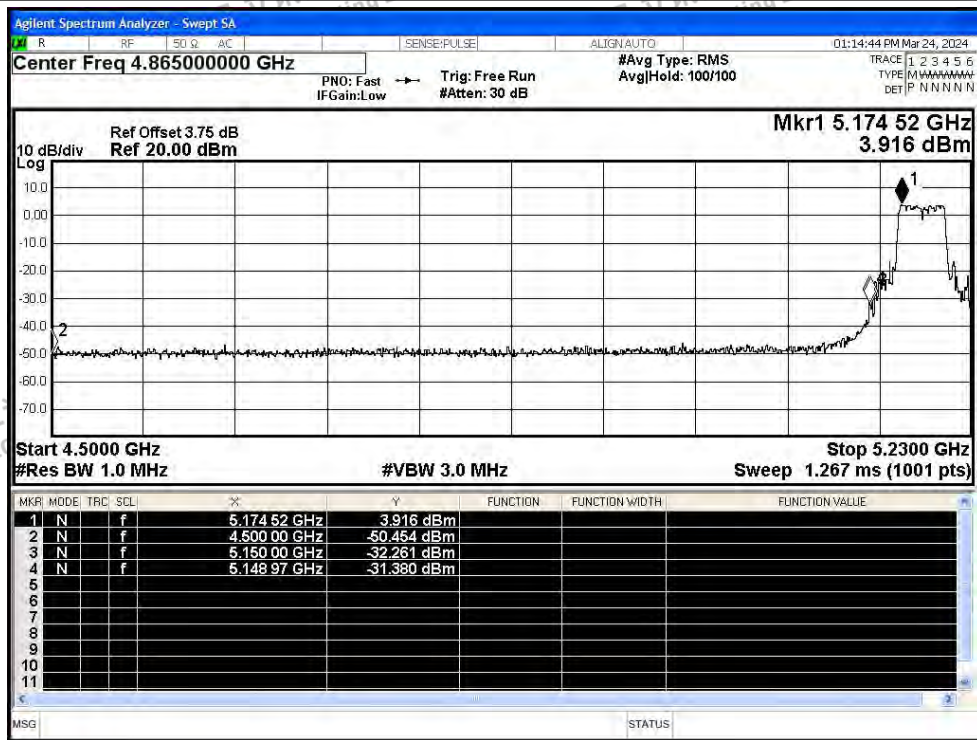


Restrict Band NVNT n20 5240MHz Average

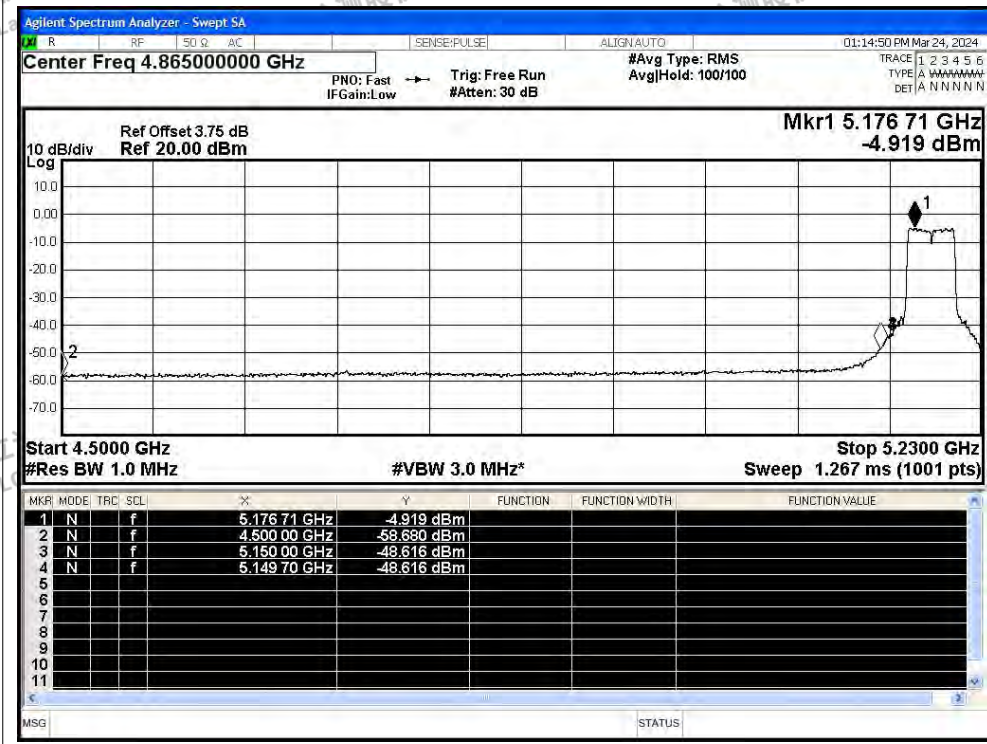




Restrict Band NVNT n40 5190MHz Peak

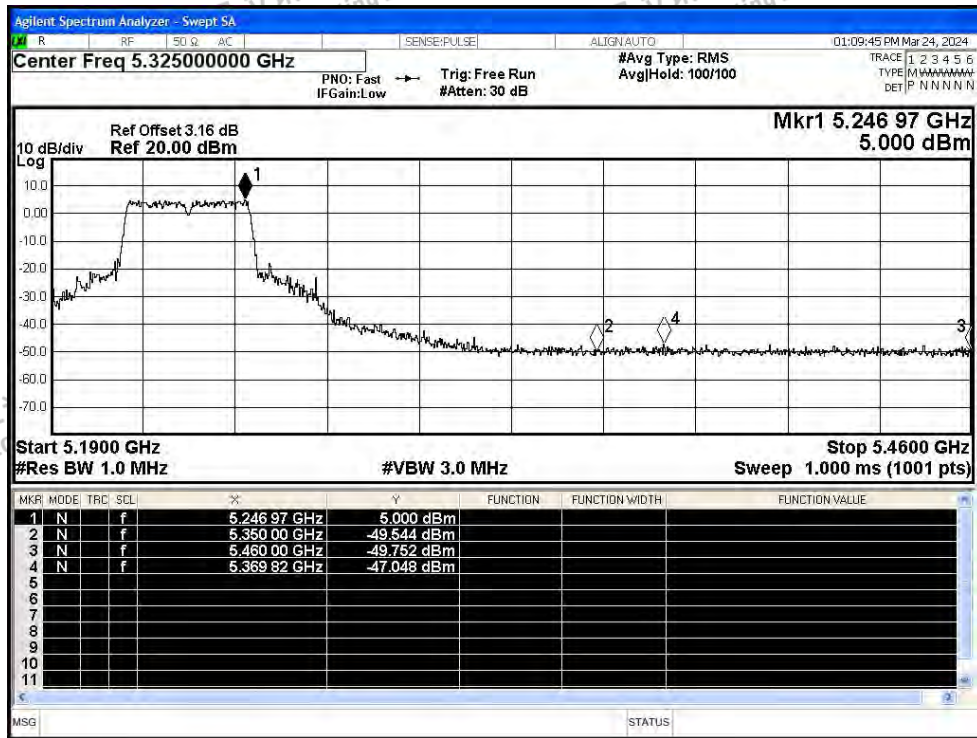


Restrict Band NVNT n40 5190MHz Average

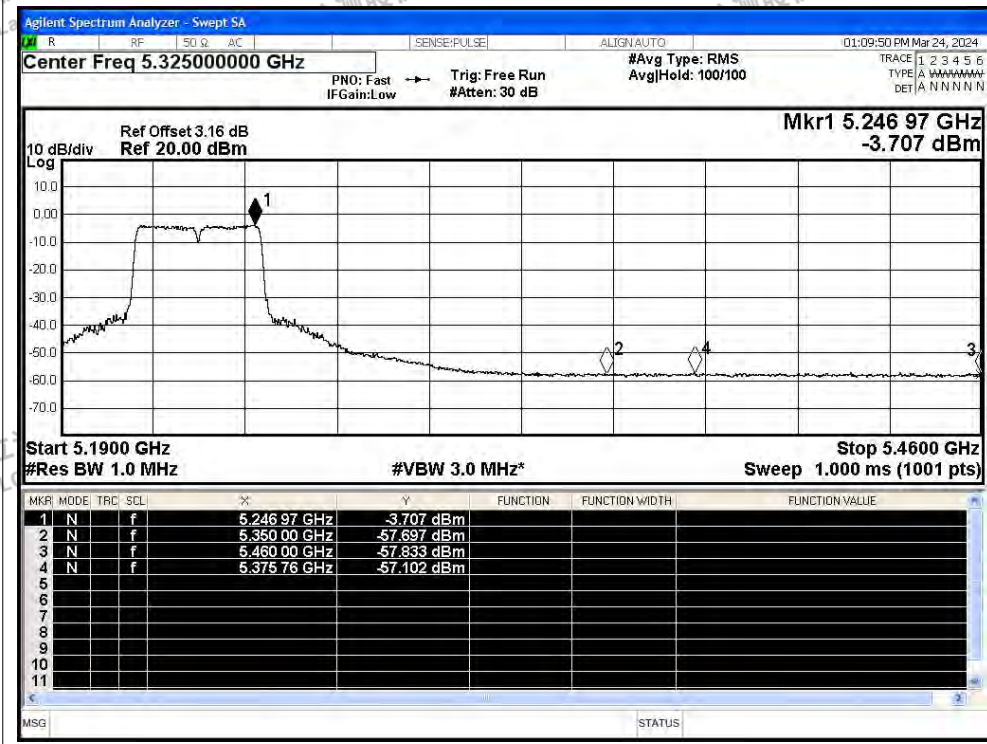




Restrict Band NVNT n40 5230MHz Peak

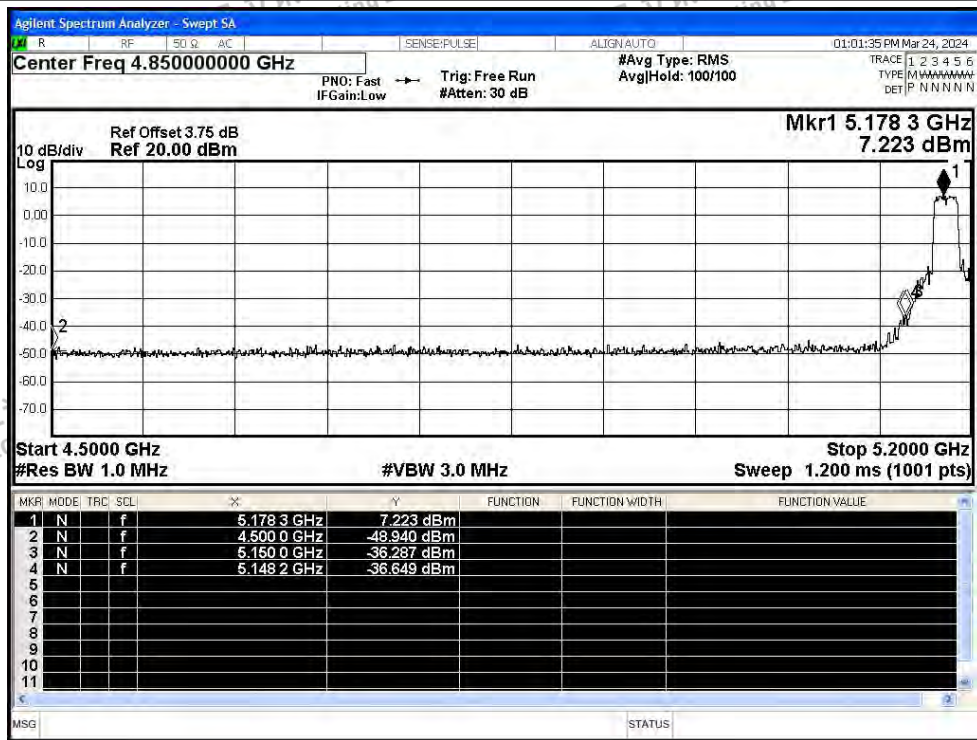


Restrict Band NVNT n40 5230MHz Average

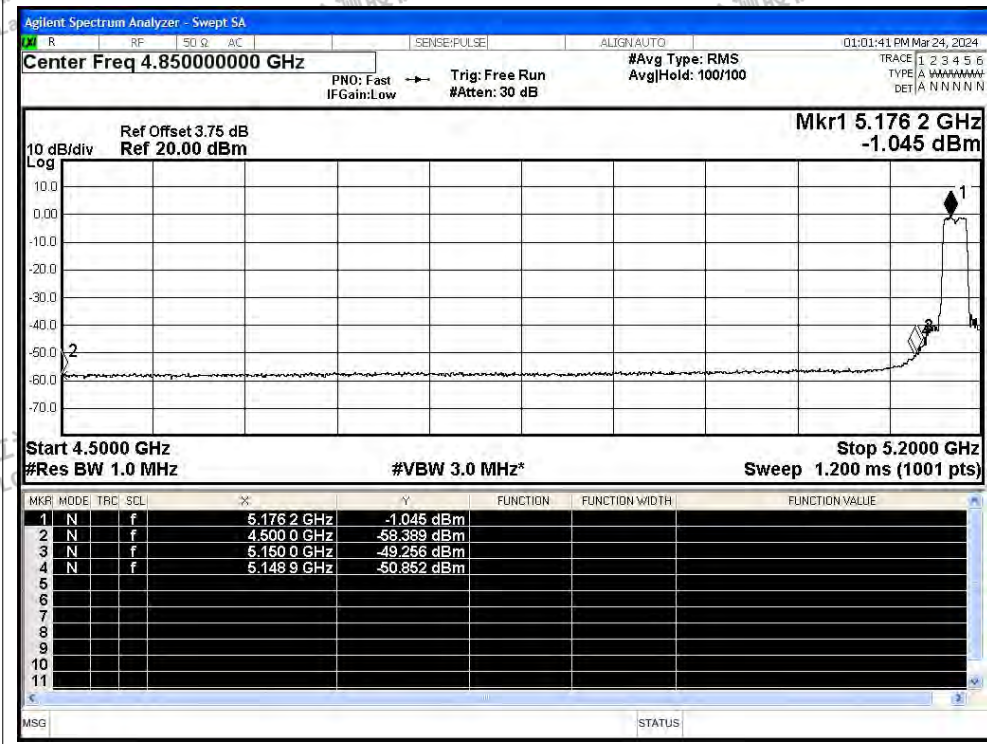




Restrict Band NVNT ac20 5180MHz Peak

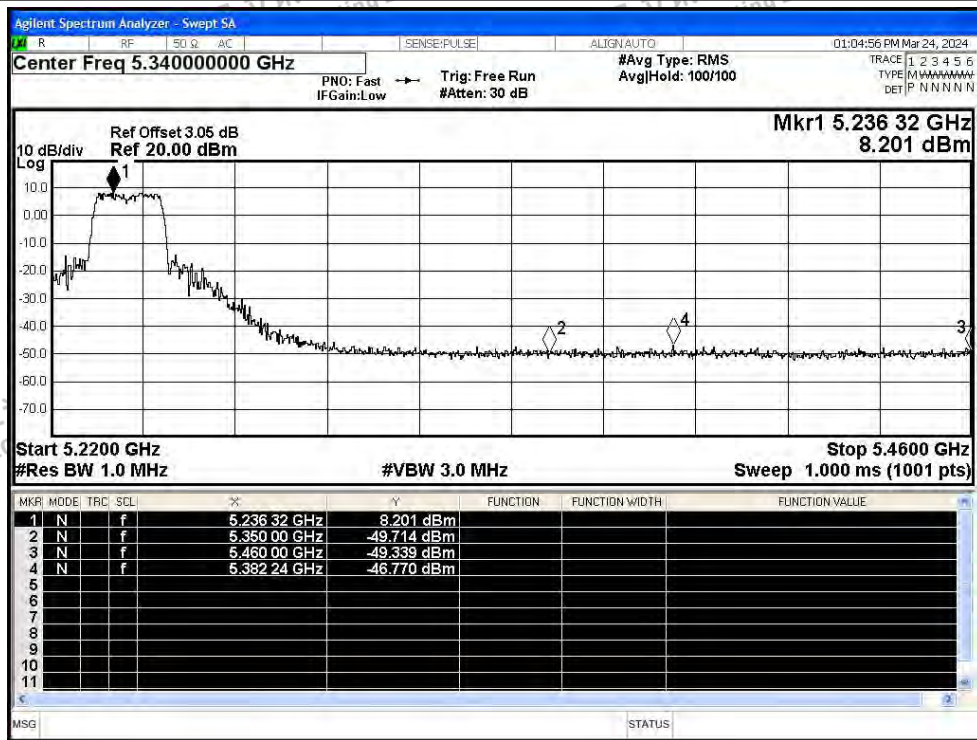


Restrict Band NVNT ac20 5180MHz Average

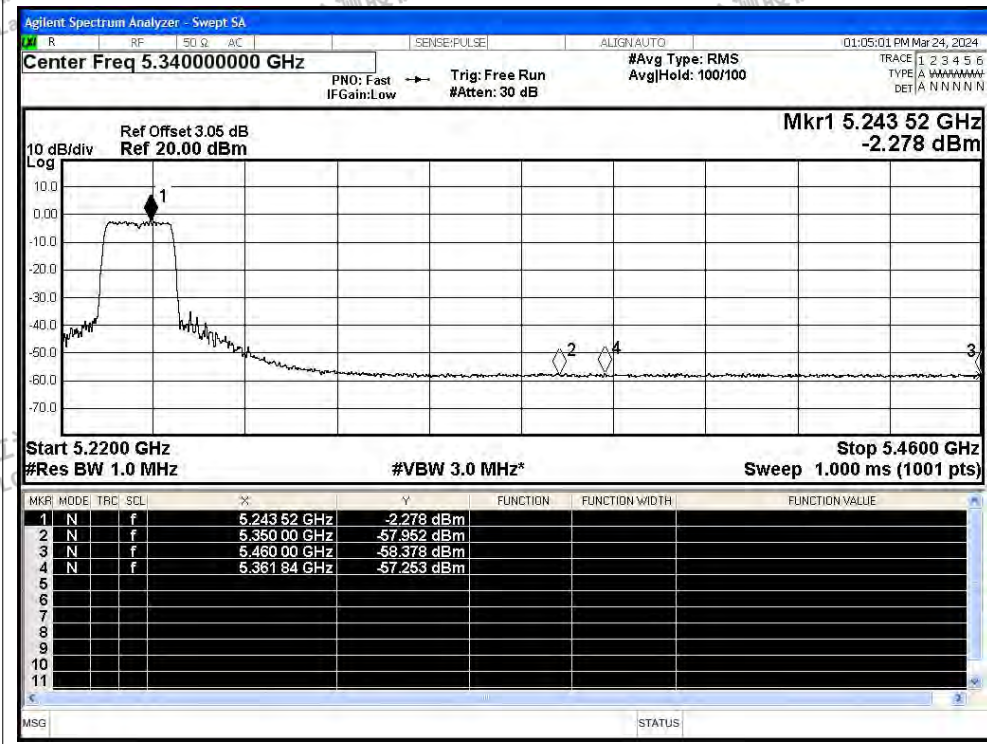




Restrict Band NVNT ac20 5240MHz Peak

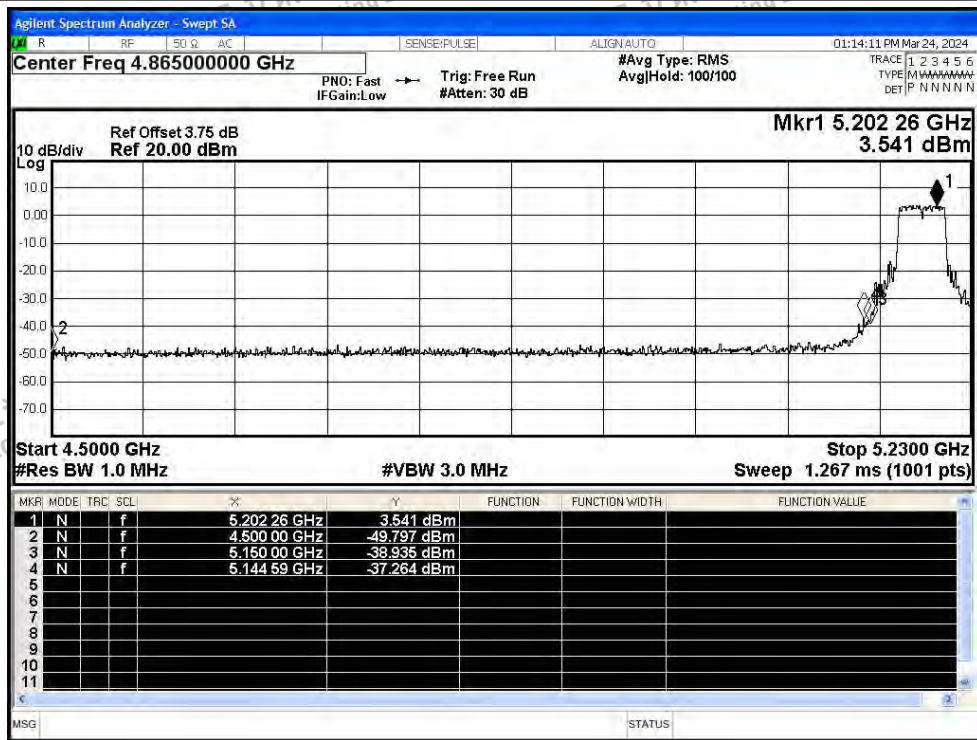


Restrict Band NVNT ac20 5240MHz Average

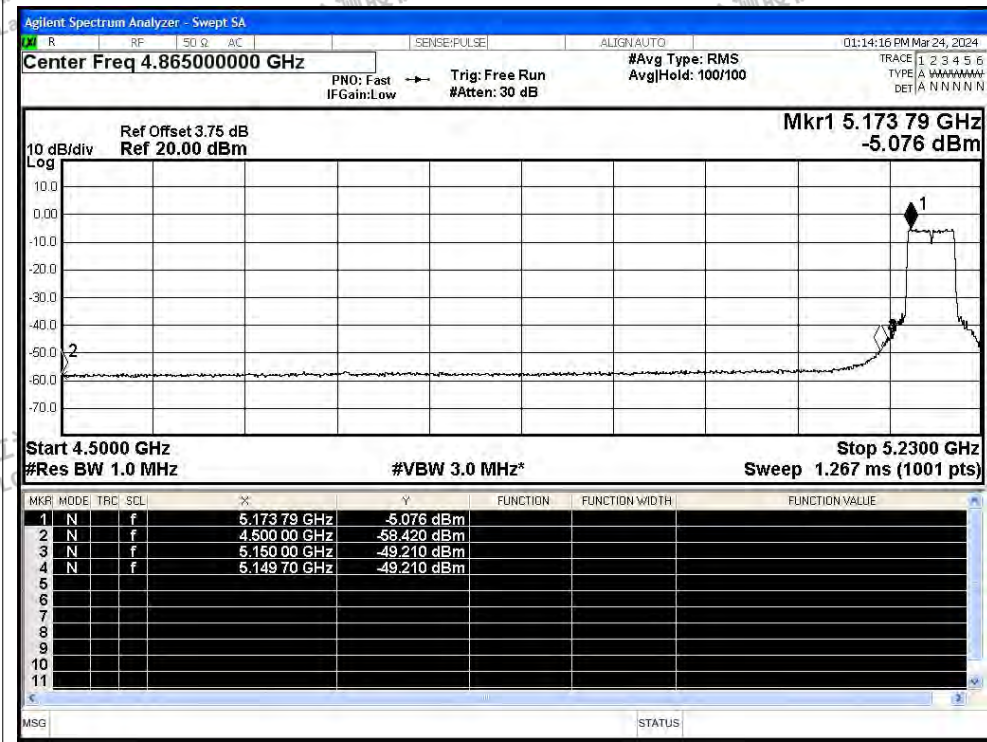




Restrict Band NVNT ac40 5190MHz Peak



Restrict Band NVNT ac40 5190MHz Average

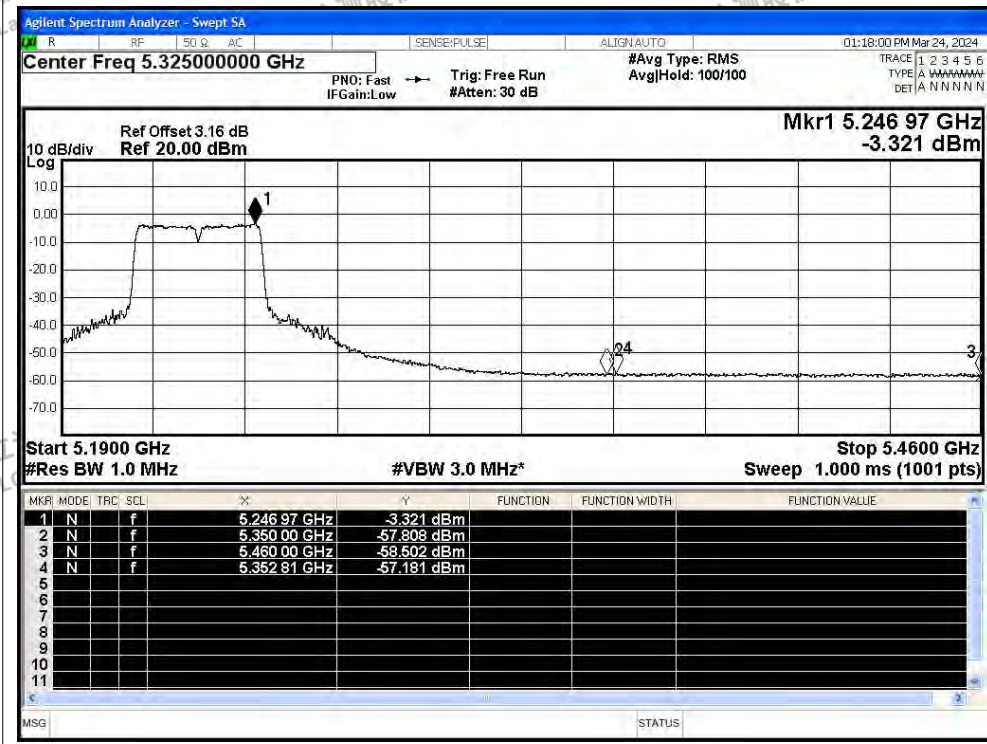




Restrict Band NVNT ac40 5230MHz Peak

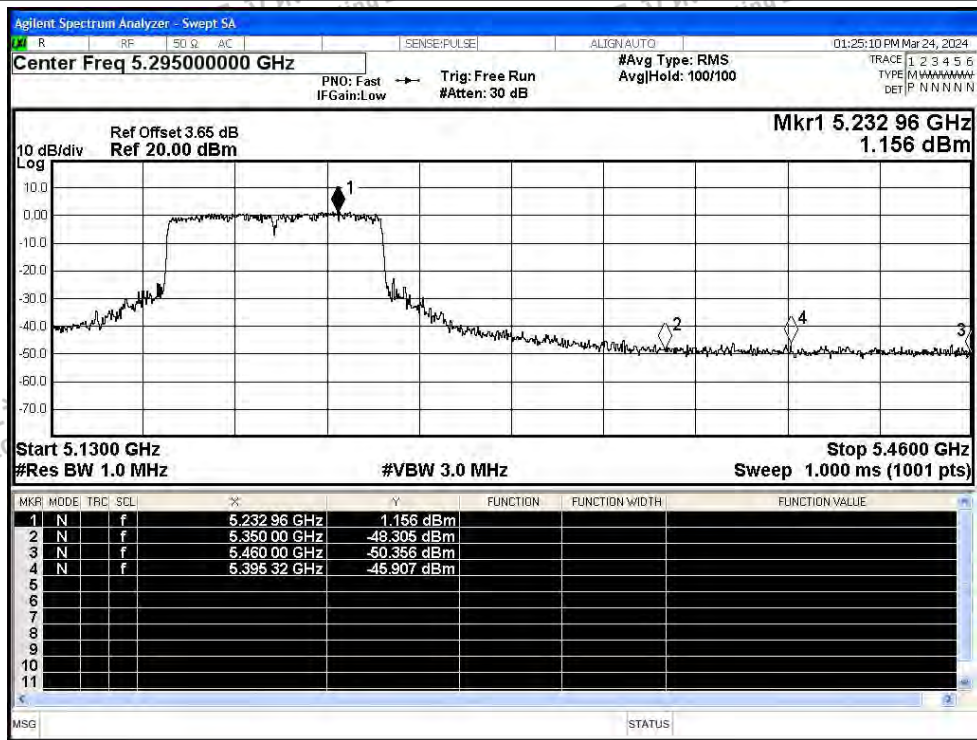


Restrict Band NVNT ac40 5230MHz Average

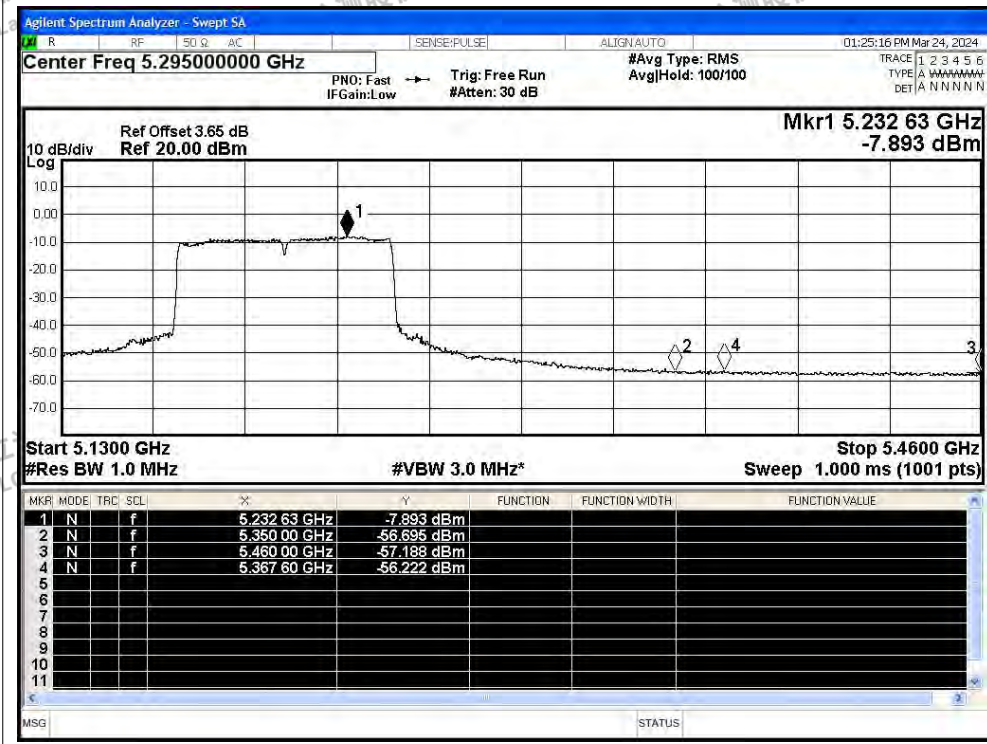




Restrict Band NVNT ac80 5210MHz Peak

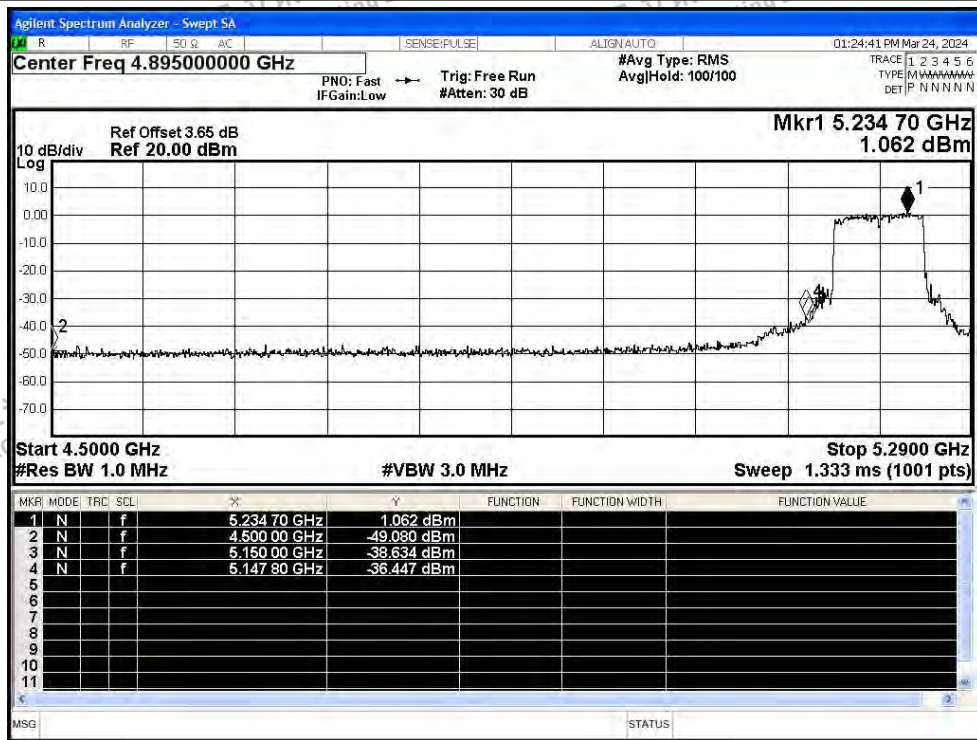


Restrict Band NVNT ac80 5210MHz Average

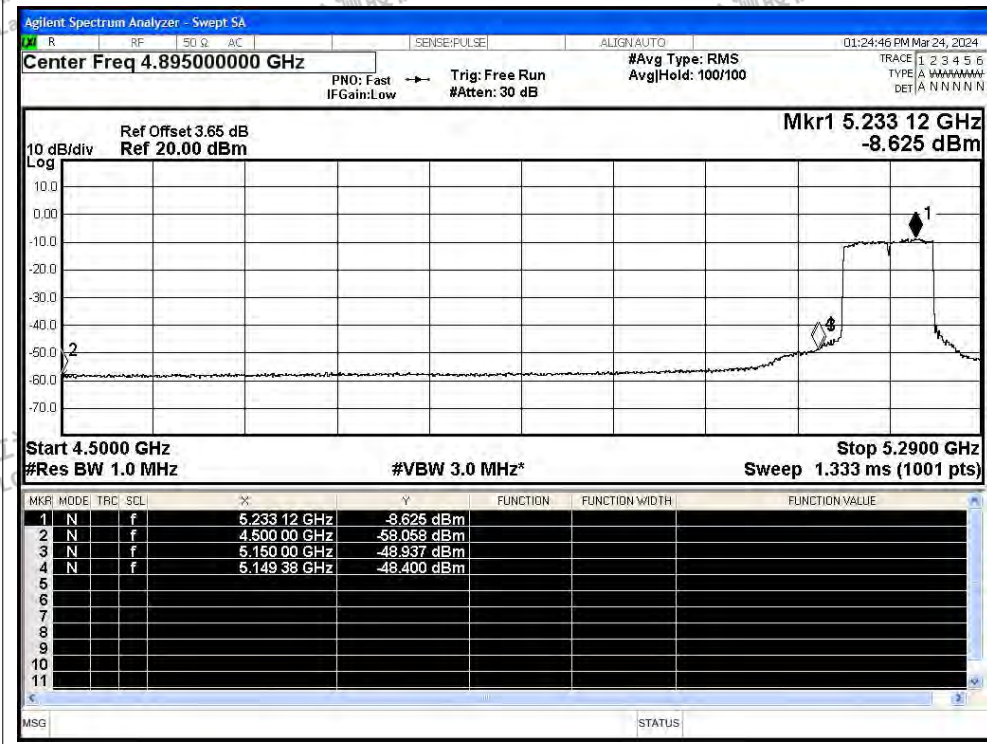




Restrict Band NVNT ac80 5210MHz Peak



Restrict Band NVNT ac80 5210MHz Average





D.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5200	0	0	25	Pass
NVNT	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant1	5210.08	80000	15.36	25	Pass

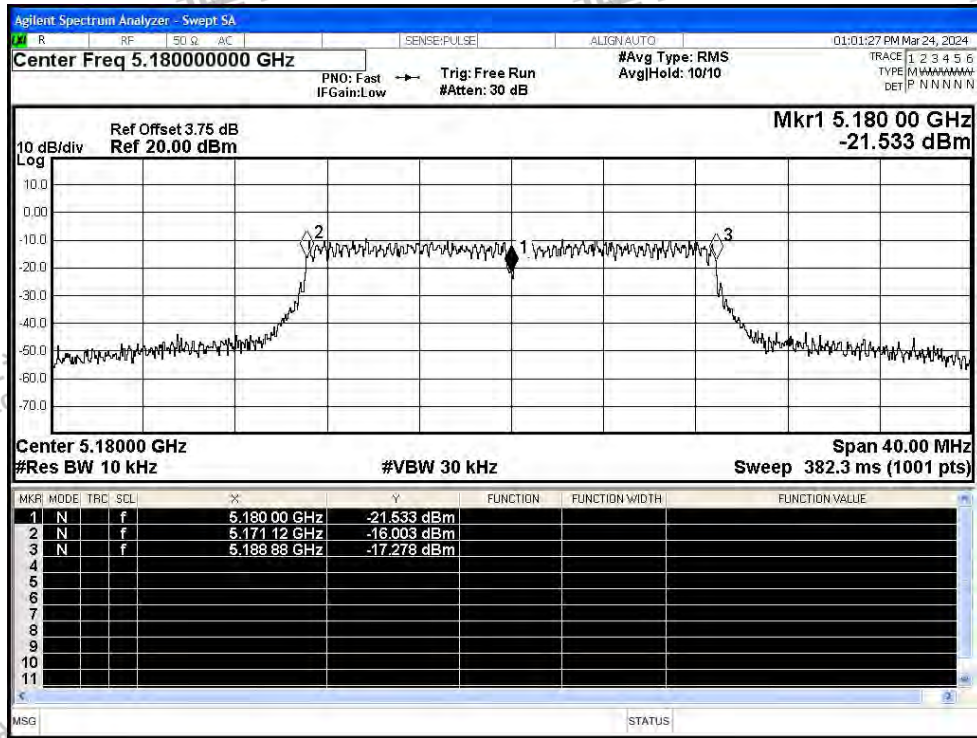


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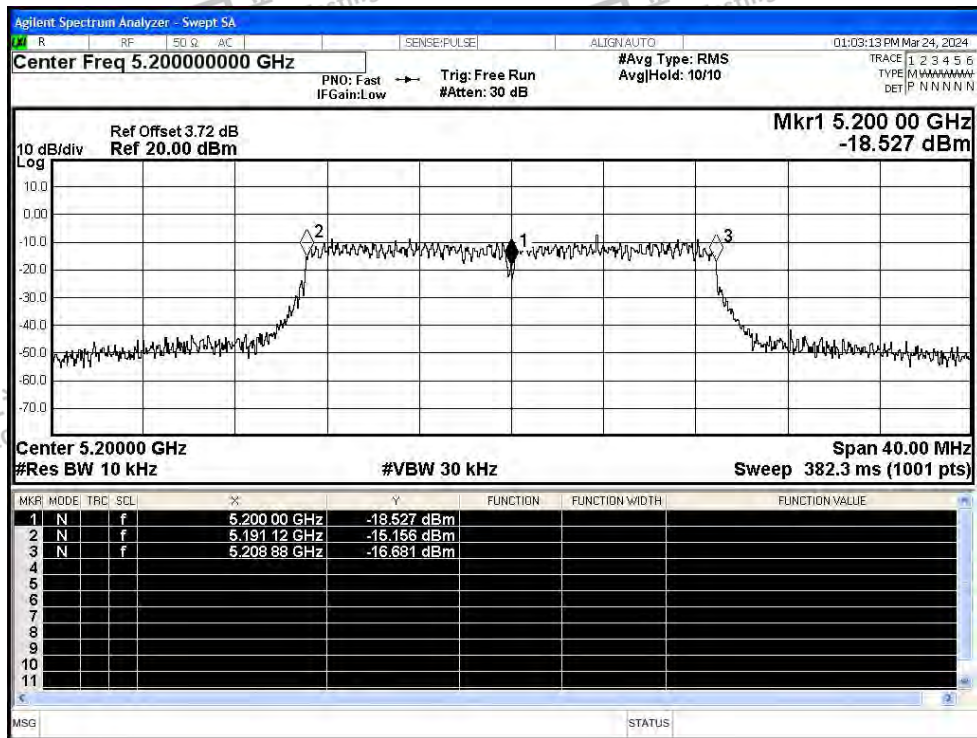


Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant1

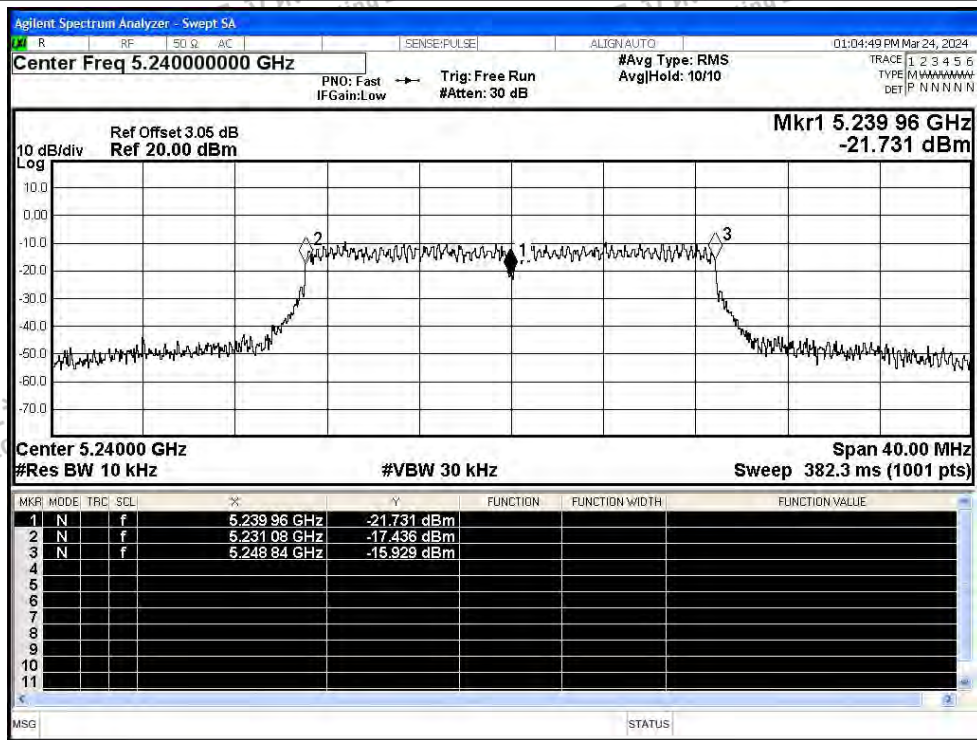


Freq. Stability NVNT ac20 5200MHz Ant1

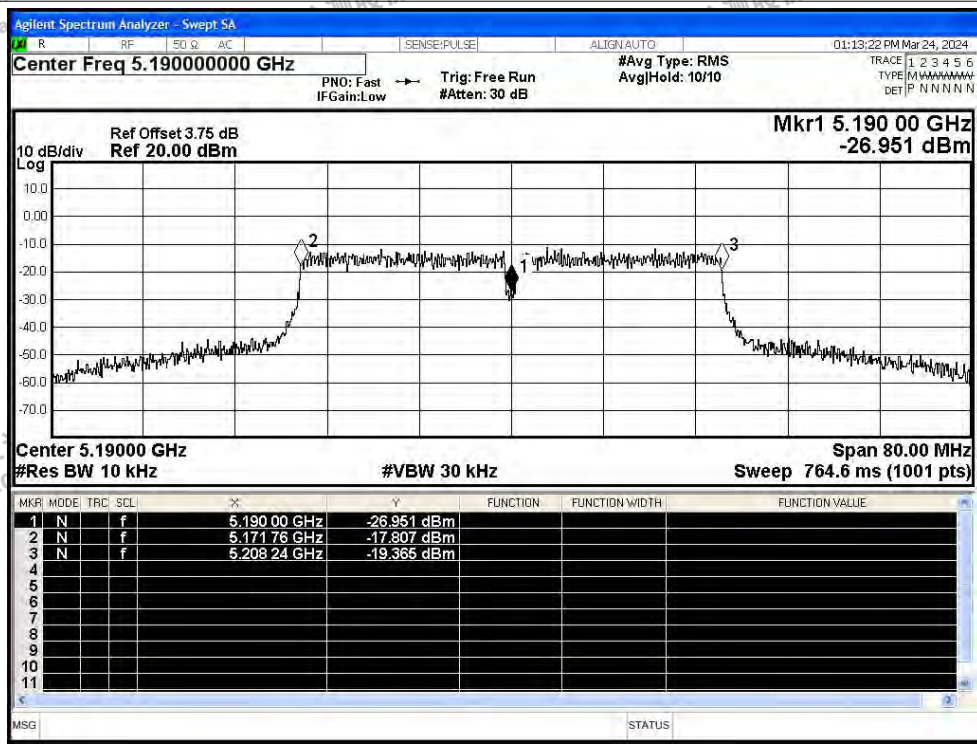




Freq. Stability NVNT ac20 5240MHz Ant1

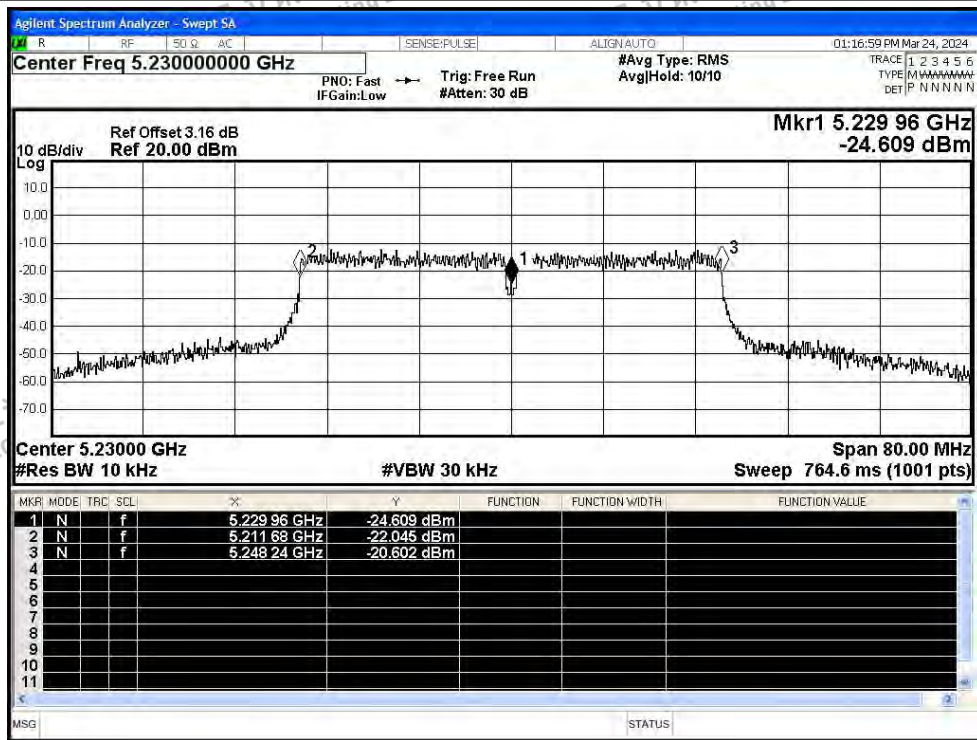


Freq. Stability NVNT ac40 5190MHz Ant1

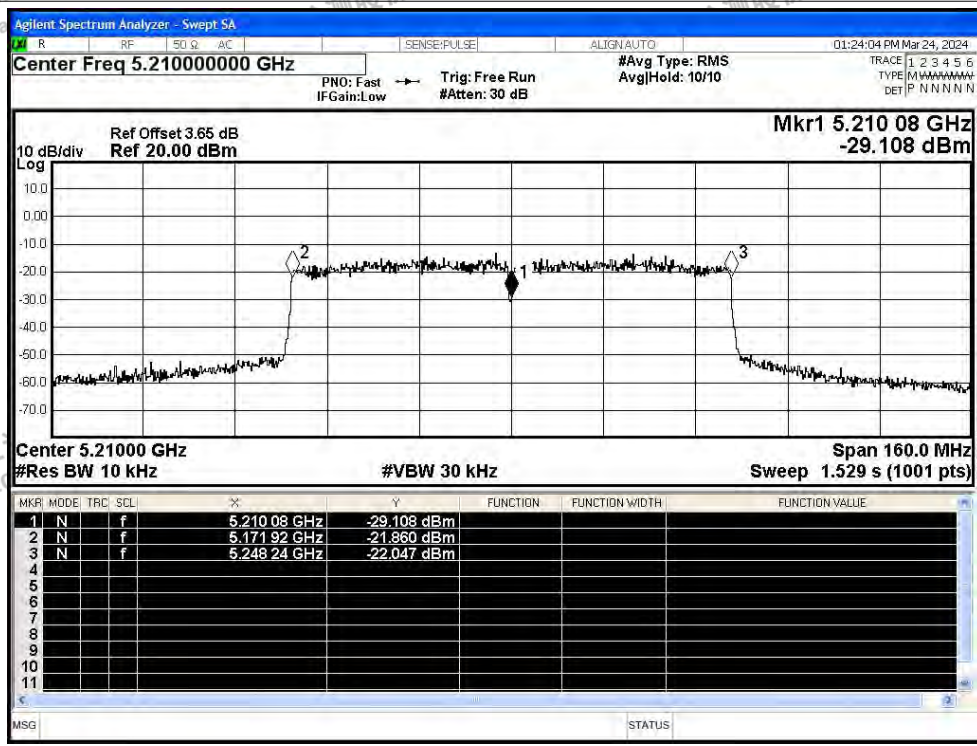




Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5180	Ant2	5180	0	0	25	Pass
NVNT	ac20	5200	Ant2	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant2	5240	0	0	25	Pass
NVNT	ac40	5190	Ant2	5189.96	-40000	-7.71	25	Pass
NVNT	ac40	5230	Ant2	5229.96	-40000	-7.65	25	Pass
NVNT	ac80	5210	Ant2	5210	0	0	25	Pass

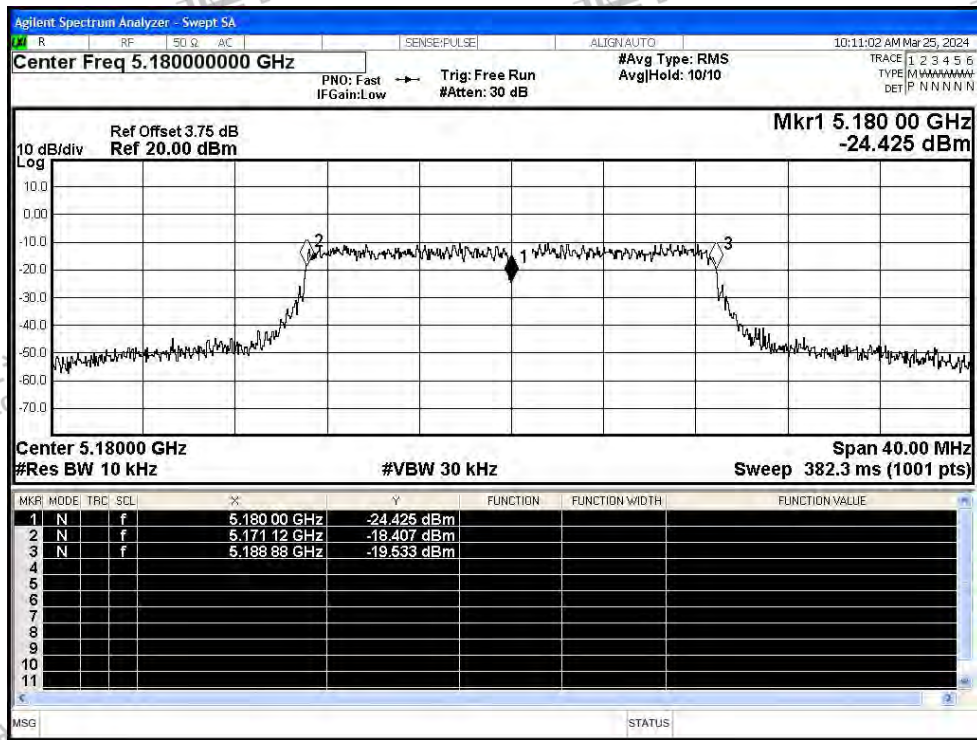


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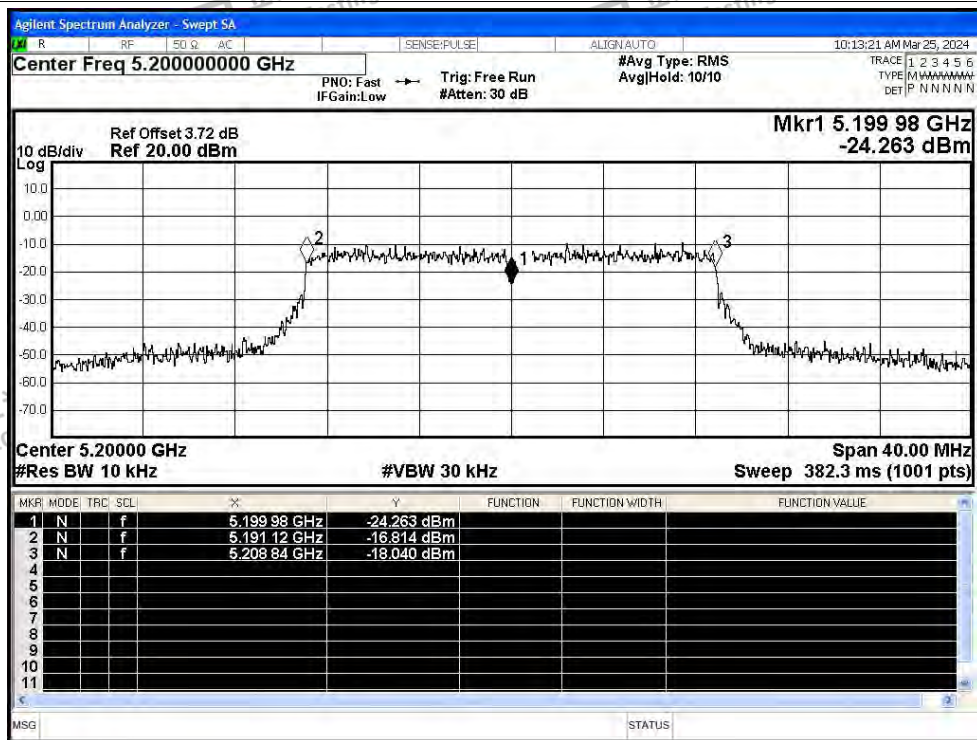


Test Graphs

Freq. Stability NVNT ac20 5180MHz Ant2

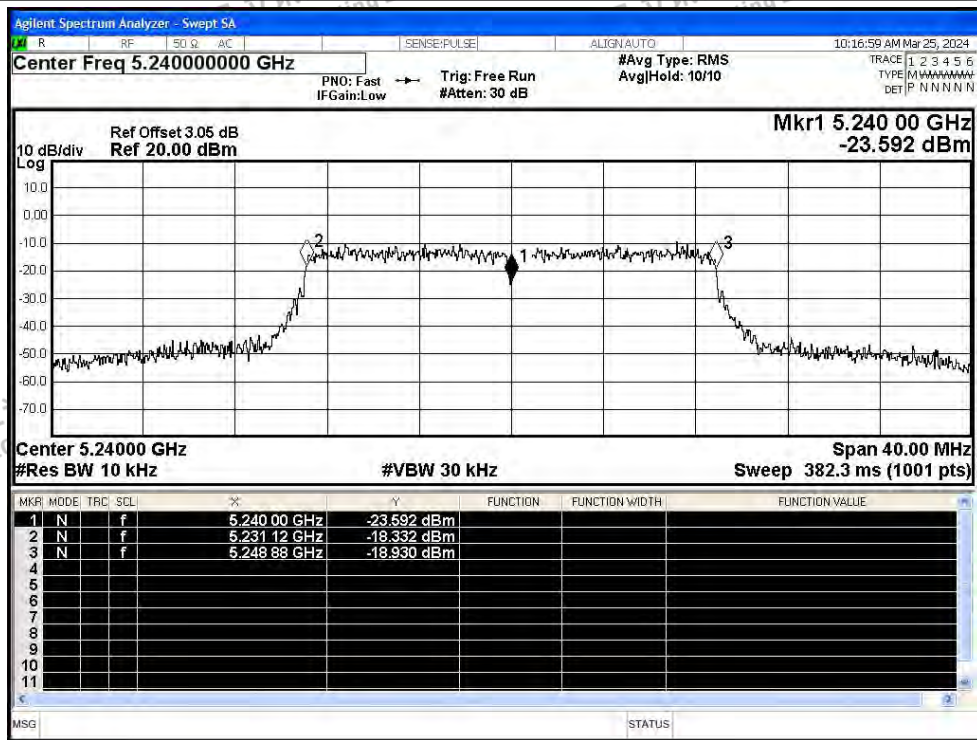


Freq. Stability NVNT ac20 5200MHz Ant2

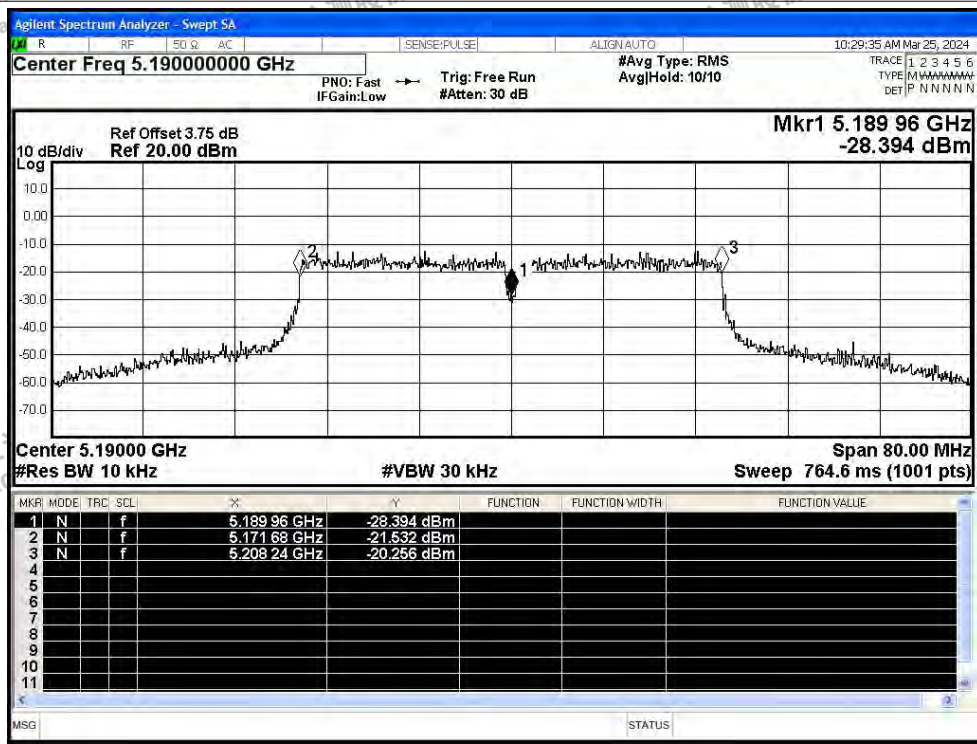




Freq. Stability NVNT ac20 5240MHz Ant2

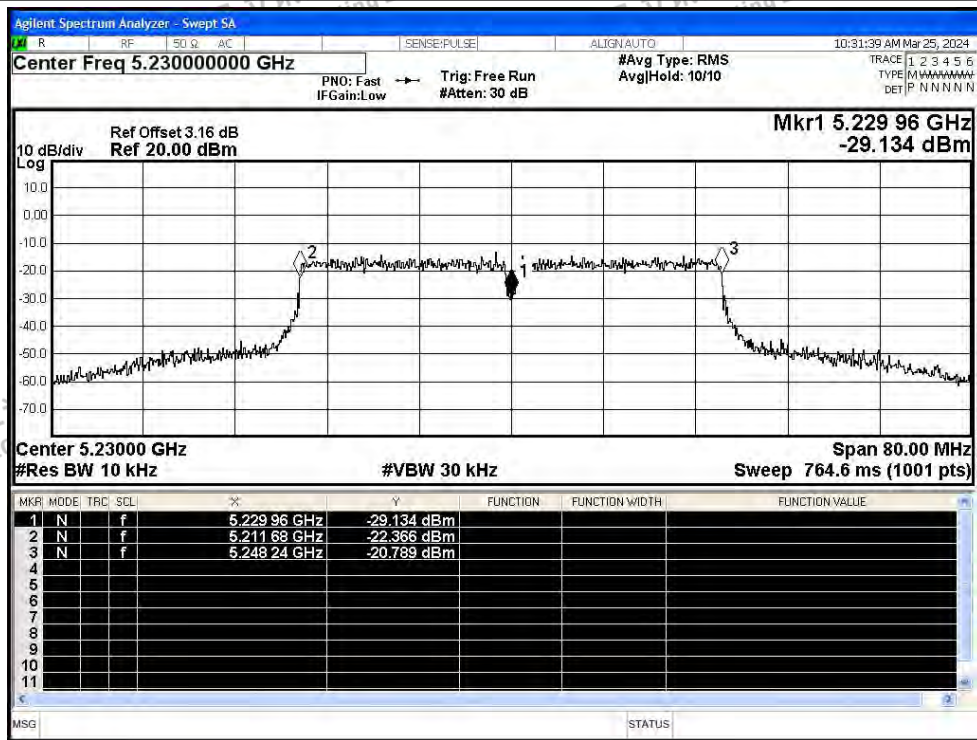


Freq. Stability NVNT ac40 5190MHz Ant2

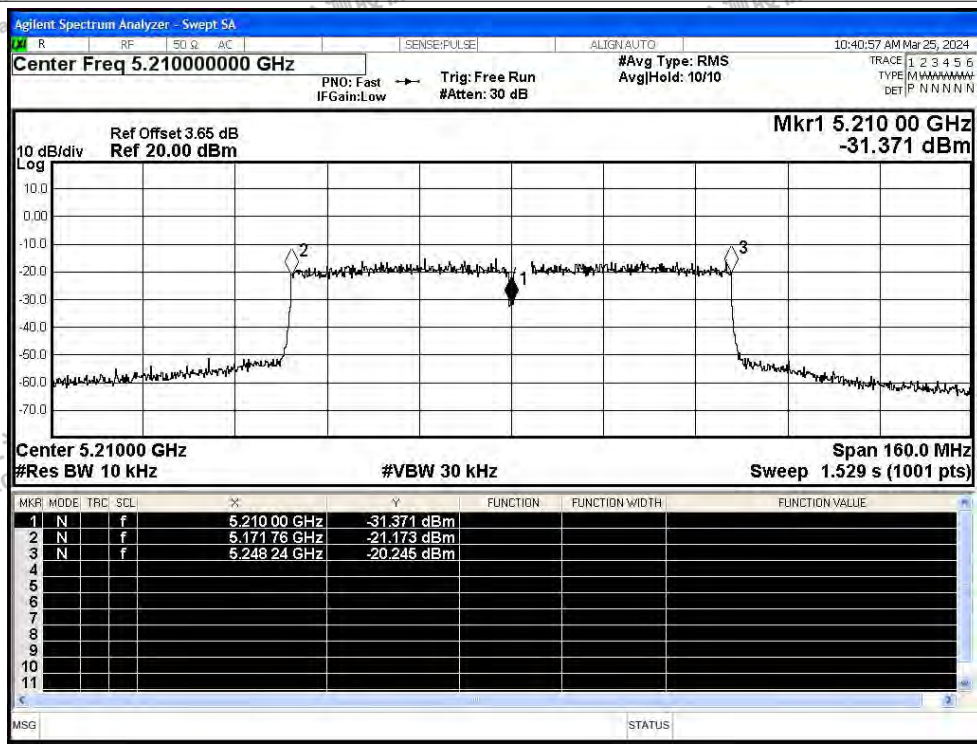




Freq. Stability NVNT ac40 5230MHz Ant2



Freq. Stability NVNT ac80 5210MHz Ant2





D.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	87.71	0.57	0.92
NVNT	a	5200	Ant1	81.87	0.87	0.91
NVNT	a	5240	Ant1	82.43	0.84	0.91
NVNT	n20	5180	Ant1	81.48	0.89	0.98
NVNT	n20	5200	Ant1	87	0.6	0.98
NVNT	n20	5240	Ant1	86.34	0.64	0.98
NVNT	n40	5190	Ant1	76.99	1.14	1.95
NVNT	n40	5230	Ant1	67.95	1.68	1.95
NVNT	ac20	5180	Ant1	86.46	0.63	0.97
NVNT	ac20	5200	Ant1	86.48	0.63	0.97
NVNT	ac20	5240	Ant1	81.65	0.88	0.96
NVNT	ac40	5190	Ant1	77.27	1.12	1.92
NVNT	ac40	5230	Ant1	76.25	1.18	1.92
NVNT	ac80	5210	Ant1	68.18	1.66	2.08

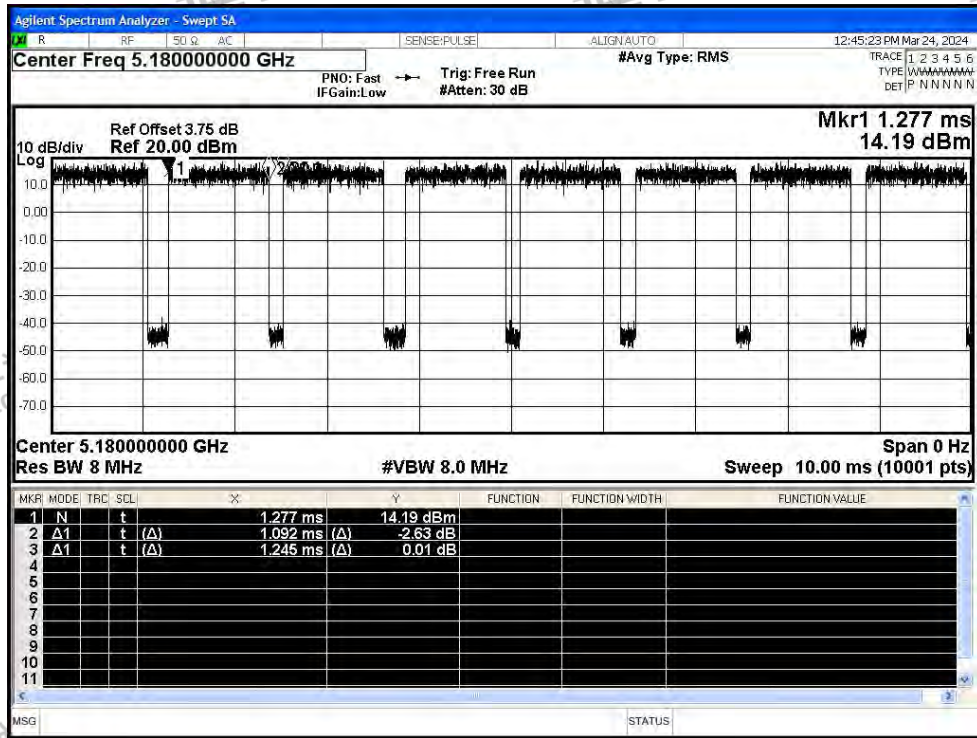


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 Scan code to check authenticity

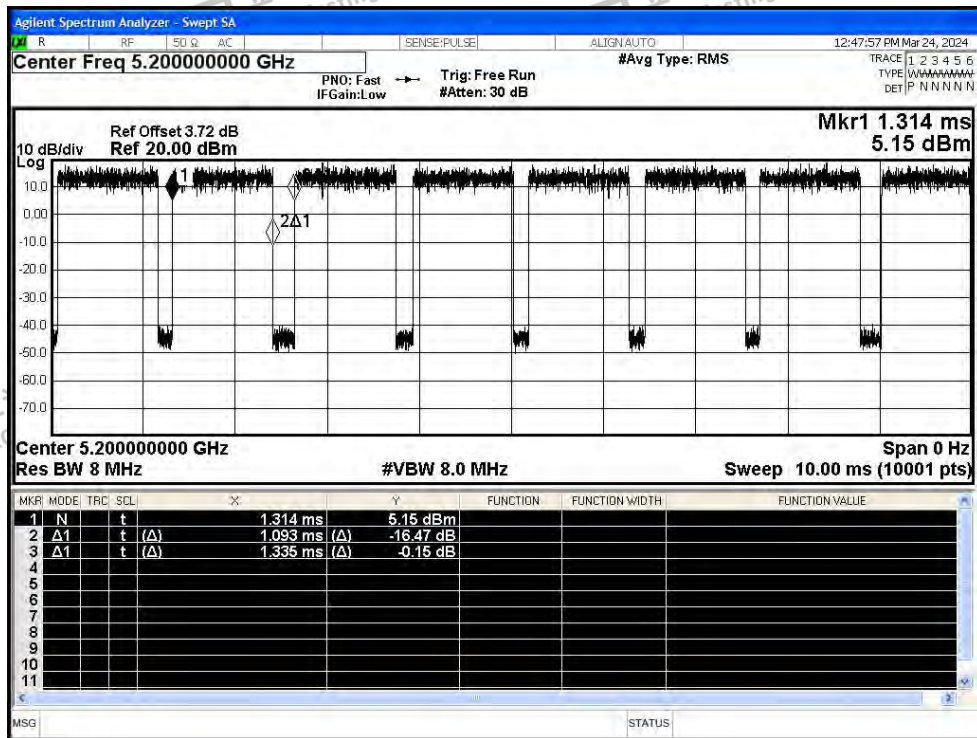


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

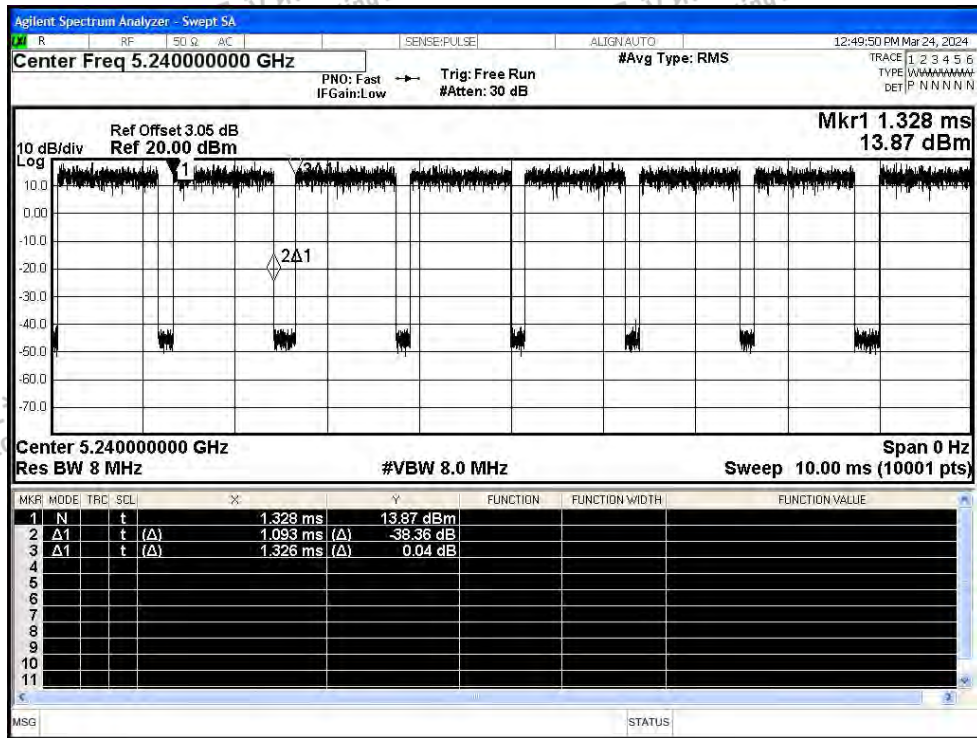


Duty Cycle NVNT a 5200MHz Ant1

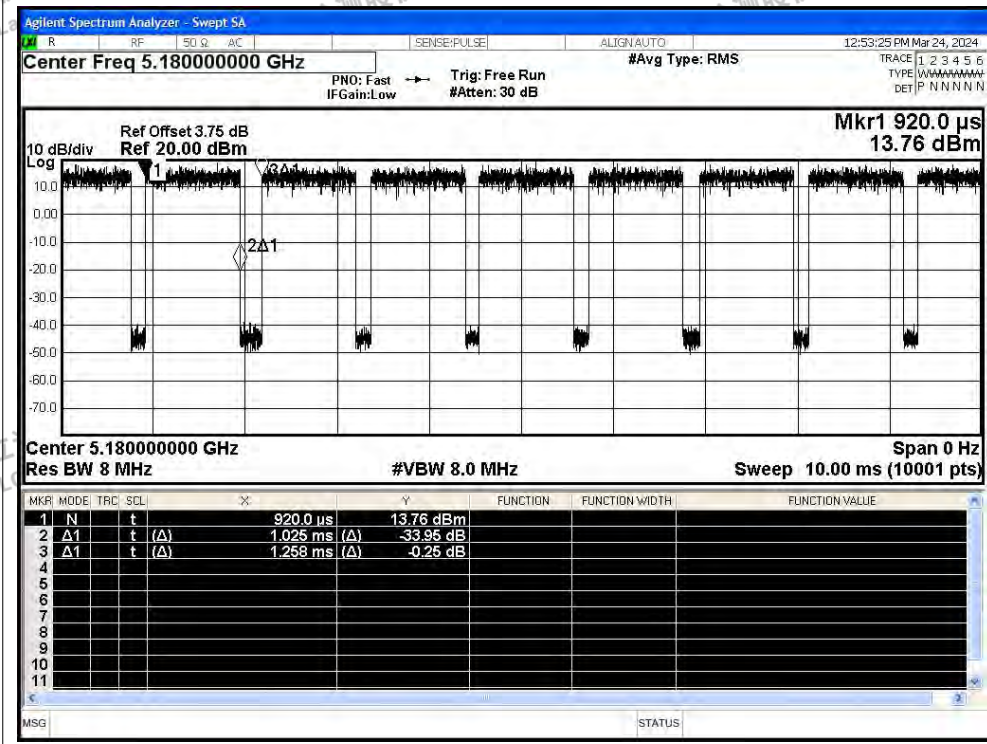




Duty Cycle NVNT a 5240MHz Ant1

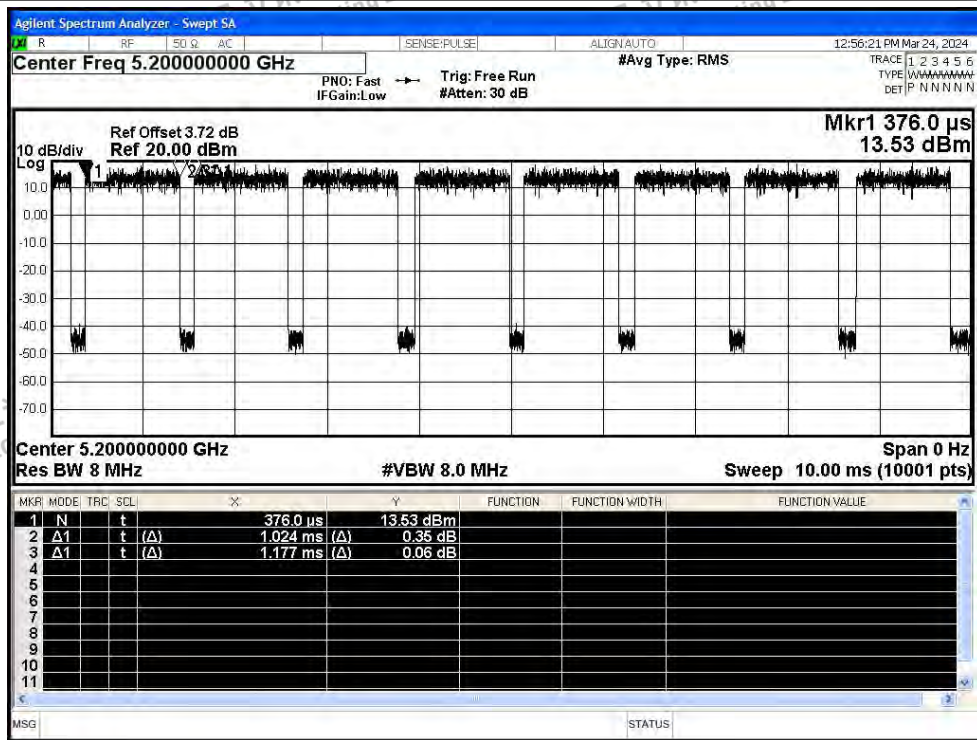


Duty Cycle NVNT n20 5180MHz Ant1

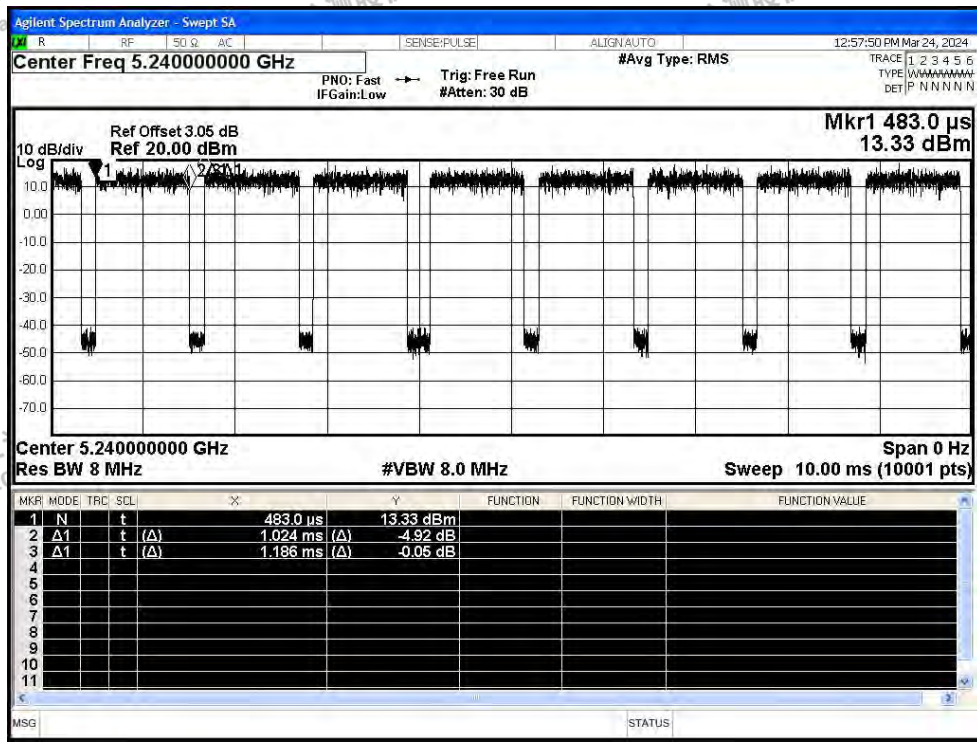




Duty Cycle NVNT n20 5200MHz Ant1

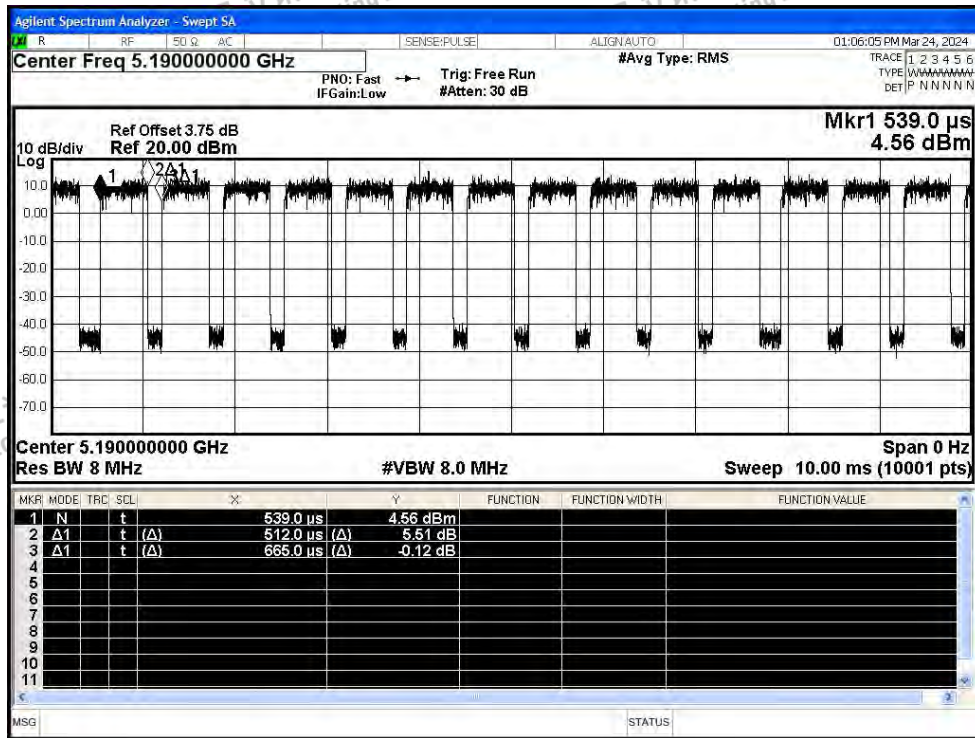


Duty Cycle NVNT n20 5240MHz Ant1

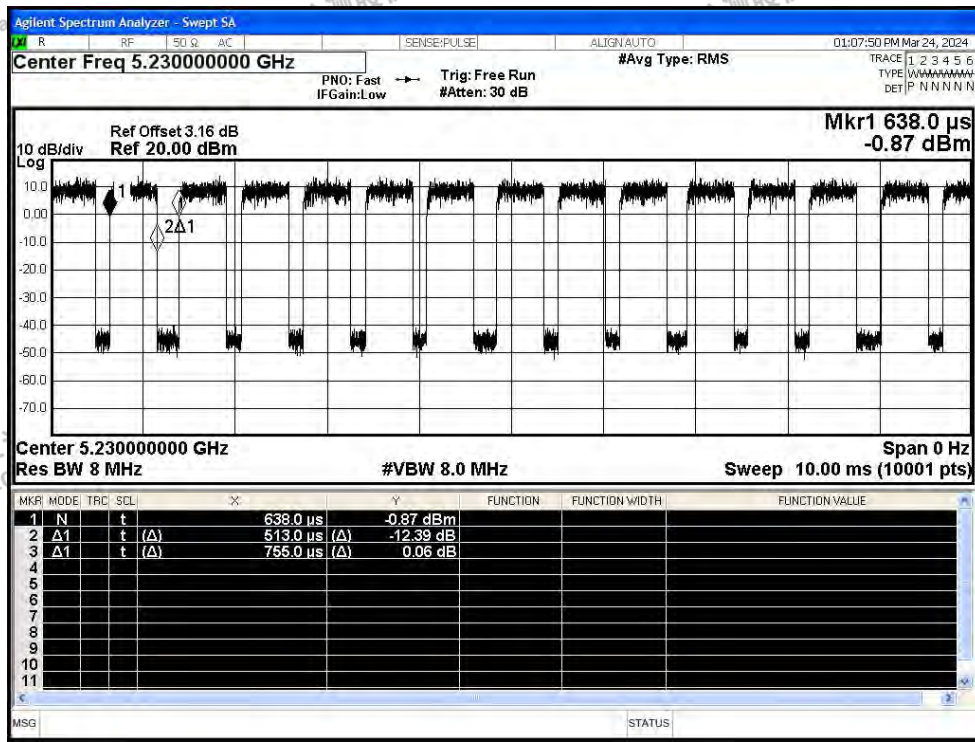




Duty Cycle NVNT n40 5190MHz Ant1

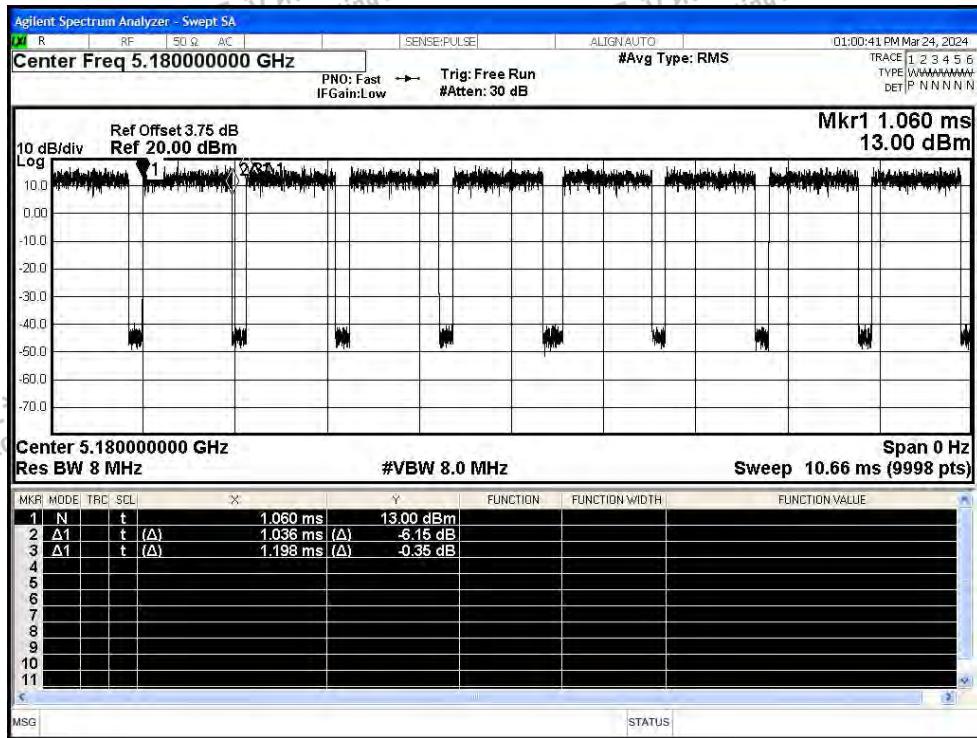


Duty Cycle NVNT n40 5230MHz Ant1

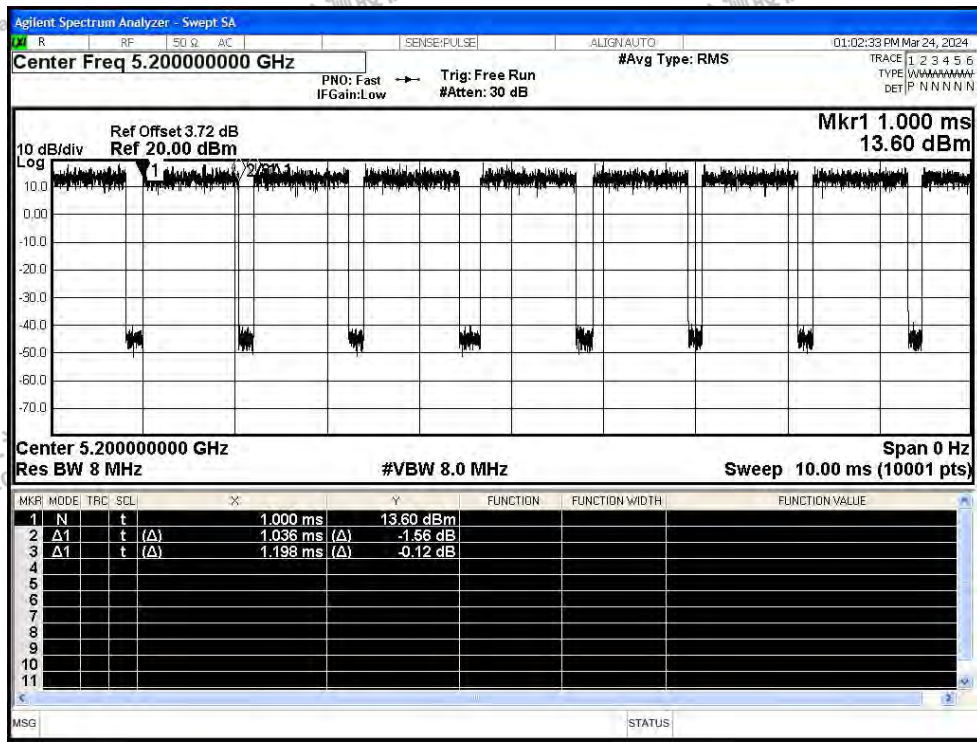




Duty Cycle NVNT ac20 5180MHz Ant1

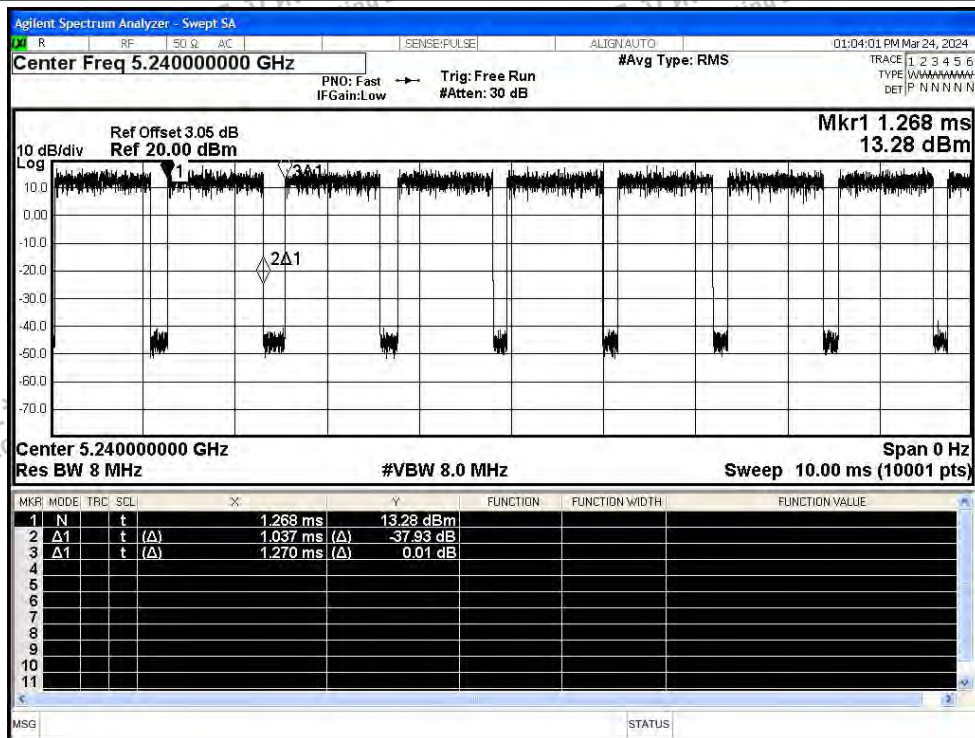


Duty Cycle NVNT ac20 5200MHz Ant1

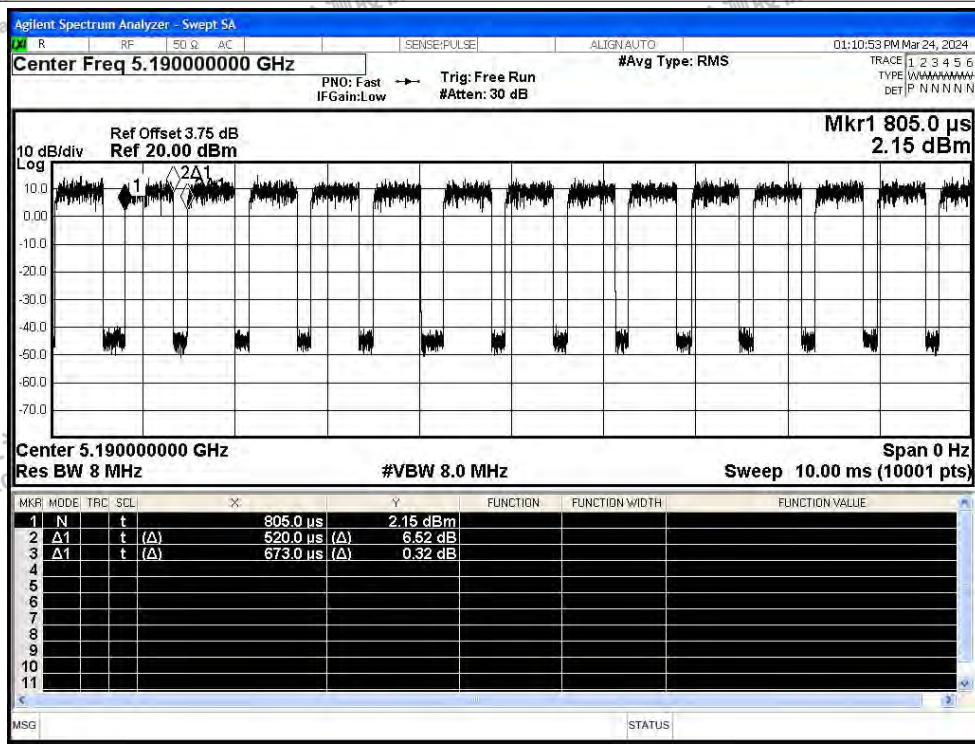




Duty Cycle NVNT ac20 5240MHz Ant1

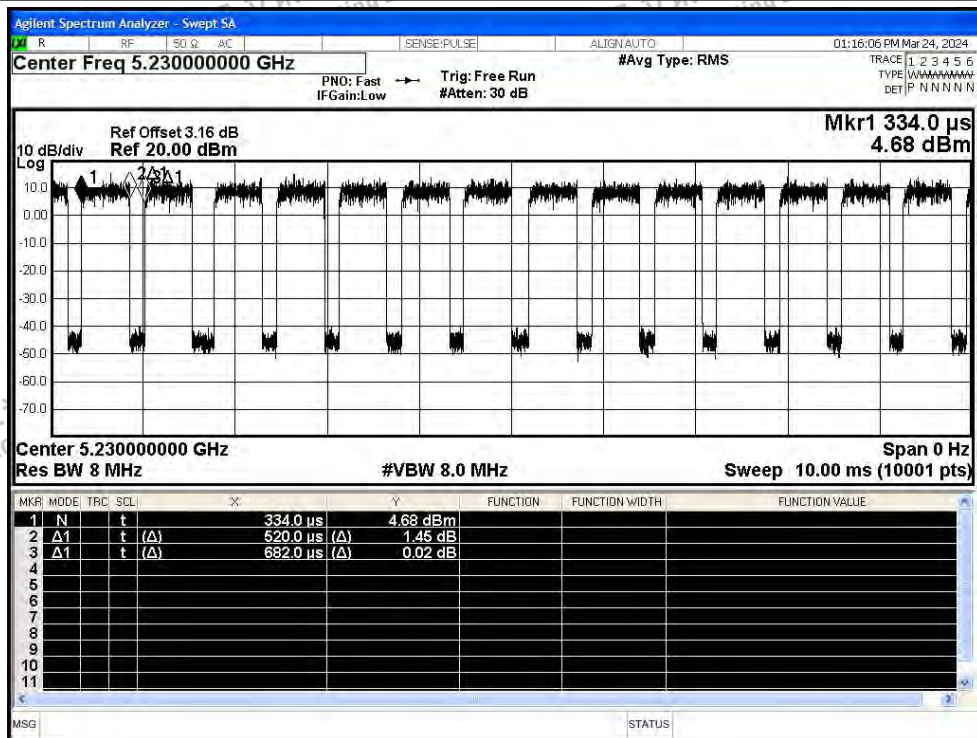


Duty Cycle NVNT ac40 5190MHz Ant1

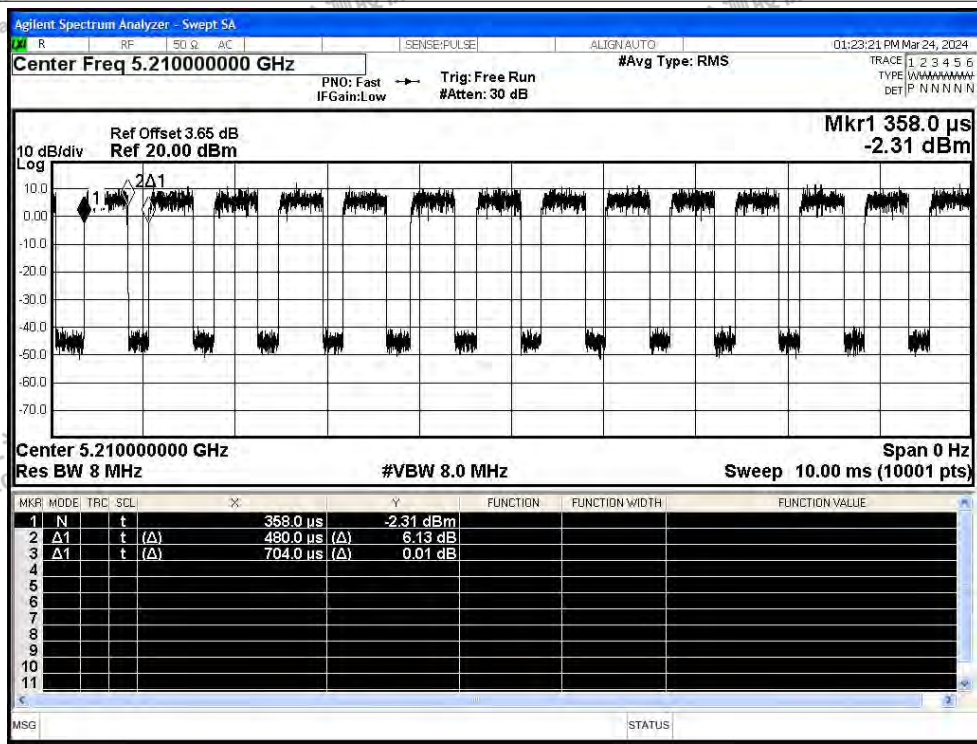




Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1





Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant2	81.8	0.87	0.92
NVNT	a	5200	Ant2	87.16	0.6	0.91
NVNT	a	5240	Ant2	87.79	0.57	0.91
NVNT	n20	5180	Ant2	79.9	0.97	1.08
NVNT	n20	5200	Ant2	85.9	0.66	1.08
NVNT	n20	5240	Ant2	85.19	0.7	1.08
NVNT	n40	5190	Ant2	79.95	0.97	1.12
NVNT	n40	5230	Ant2	79.31	1.01	1.12
NVNT	ac20	5180	Ant2	85.33	0.69	1.07
NVNT	ac20	5200	Ant2	85.34	0.69	1.07
NVNT	ac20	5240	Ant2	85.25	0.69	1.07
NVNT	ac40	5190	Ant2	80.09	0.96	1.11
NVNT	ac40	5230	Ant2	80	0.97	1.11
NVNT	ac80	5210	Ant2	66.06	1.8	2.29

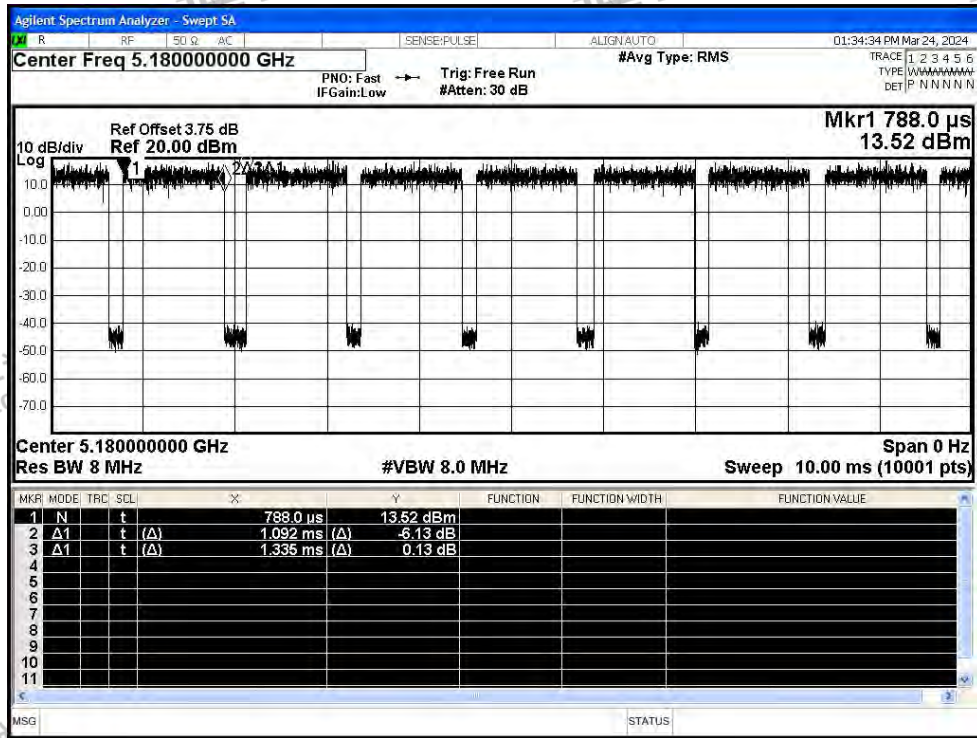


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 Scan code to check authenticity

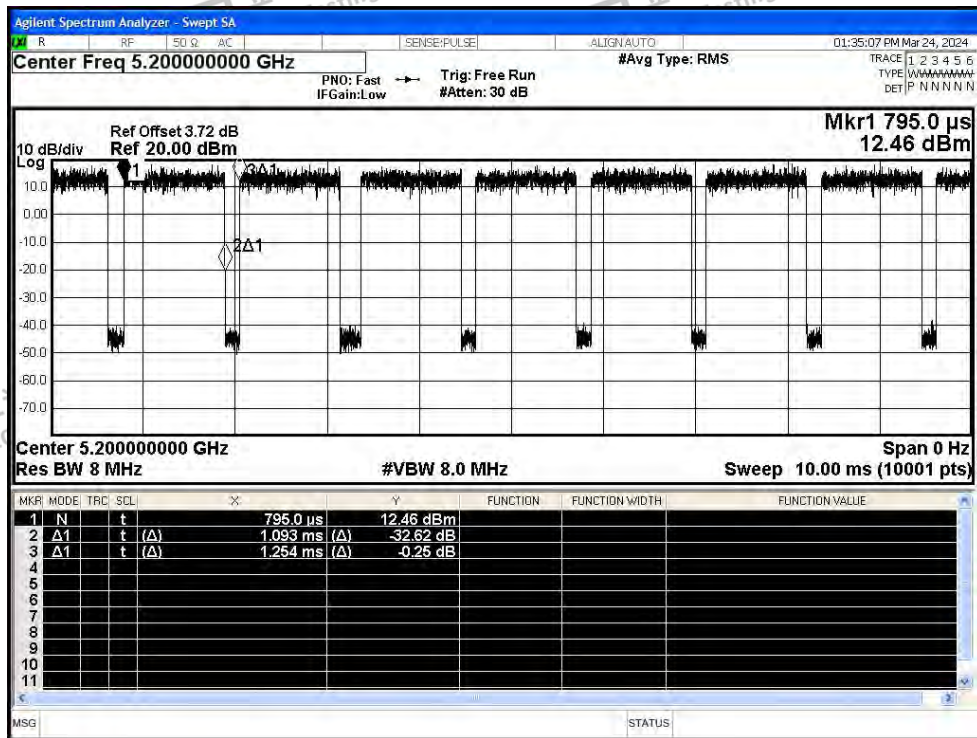


Test Graphs

Duty Cycle NVNT a 5180MHz Ant2

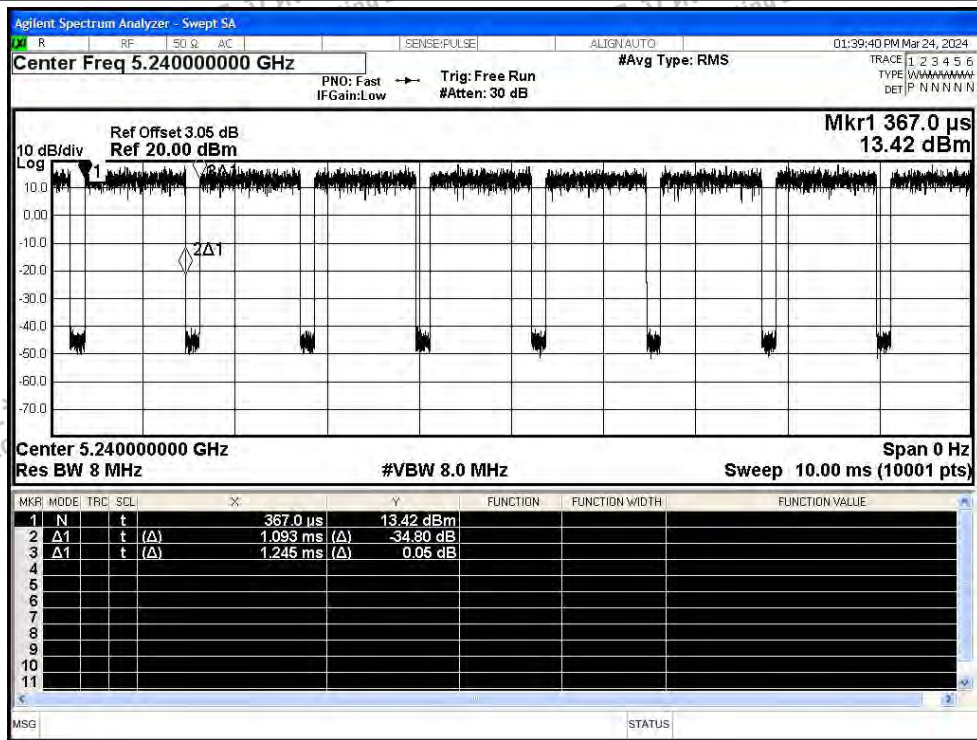


Duty Cycle NVNT a 5200MHz Ant2

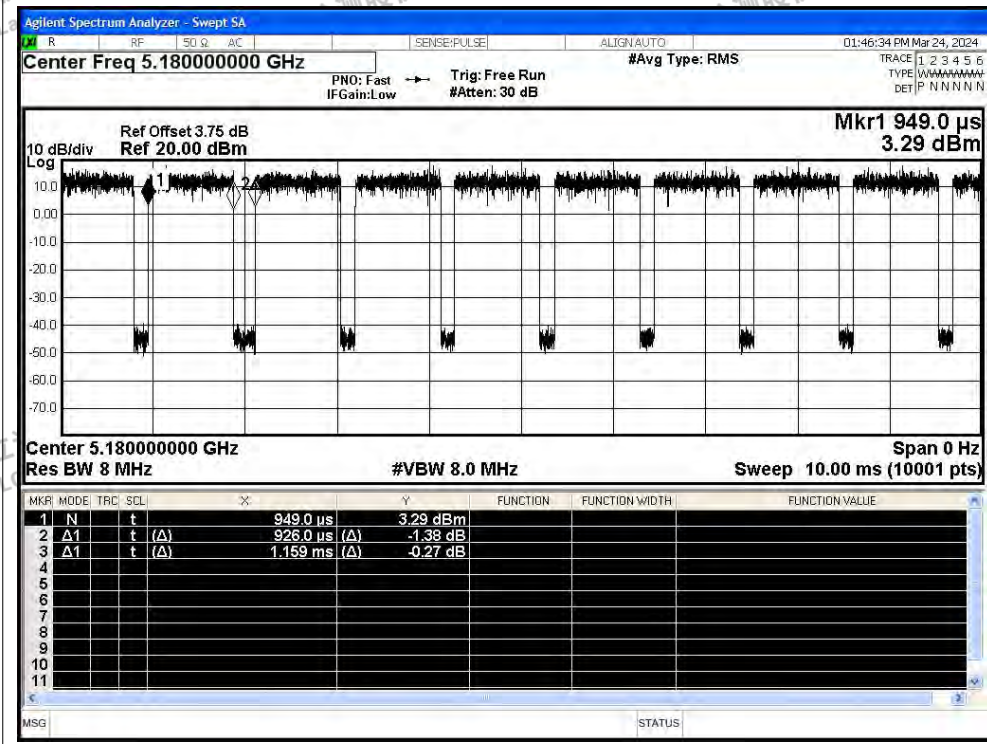




Duty Cycle NVNT a 5240MHz Ant2

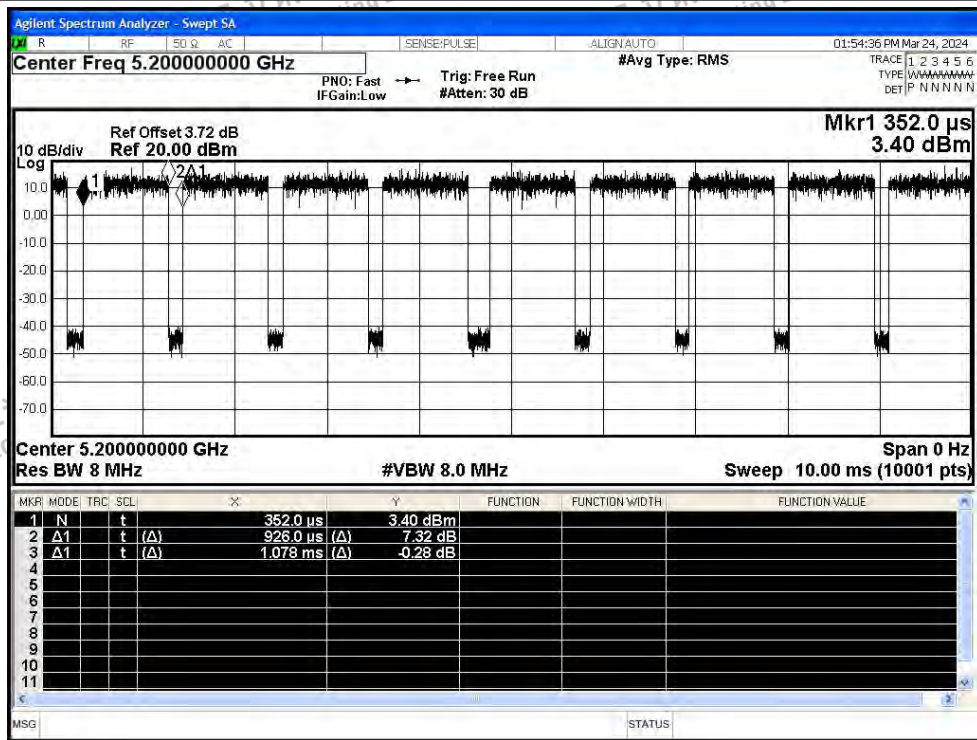


Duty Cycle NVNT n20 5180MHz Ant2

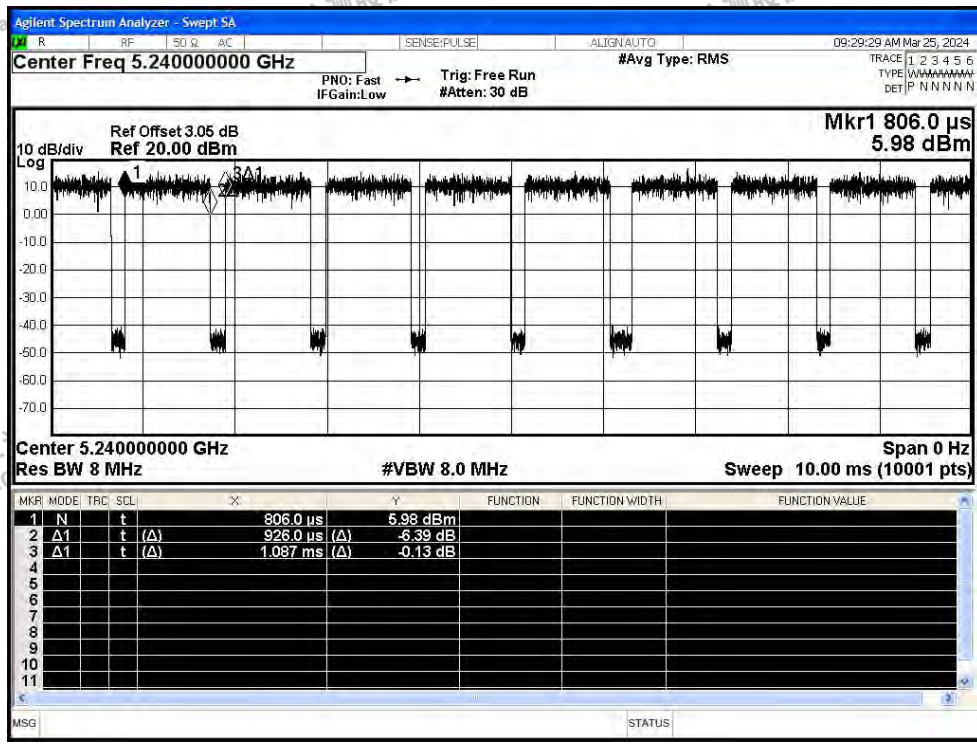




Duty Cycle NVNT n20 5200MHz Ant2

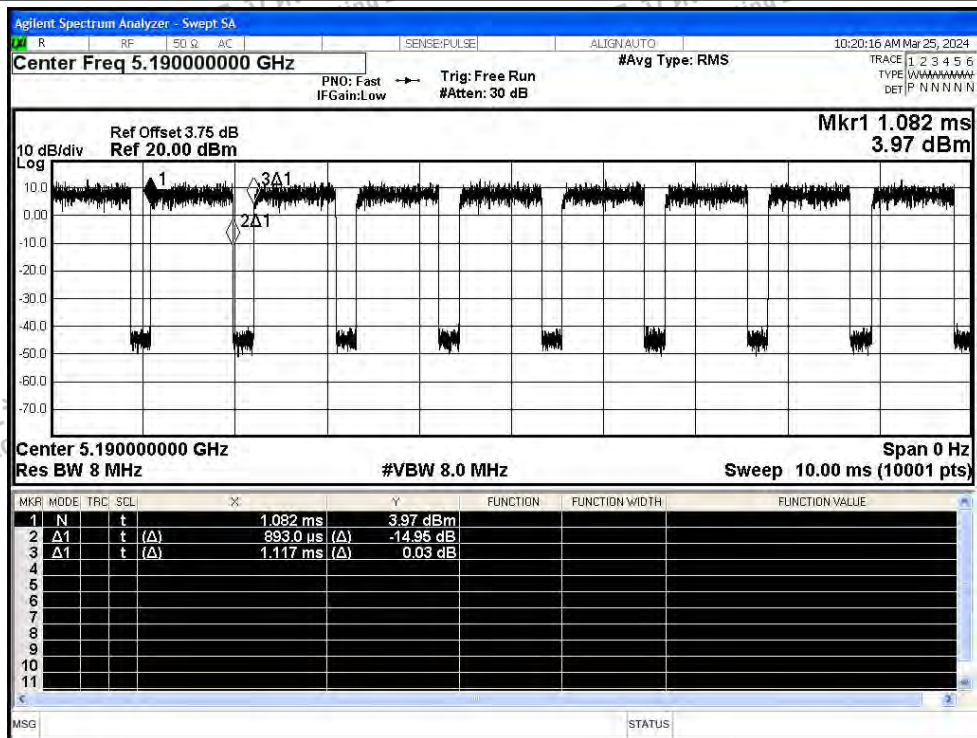


Duty Cycle NVNT n20 5240MHz Ant2

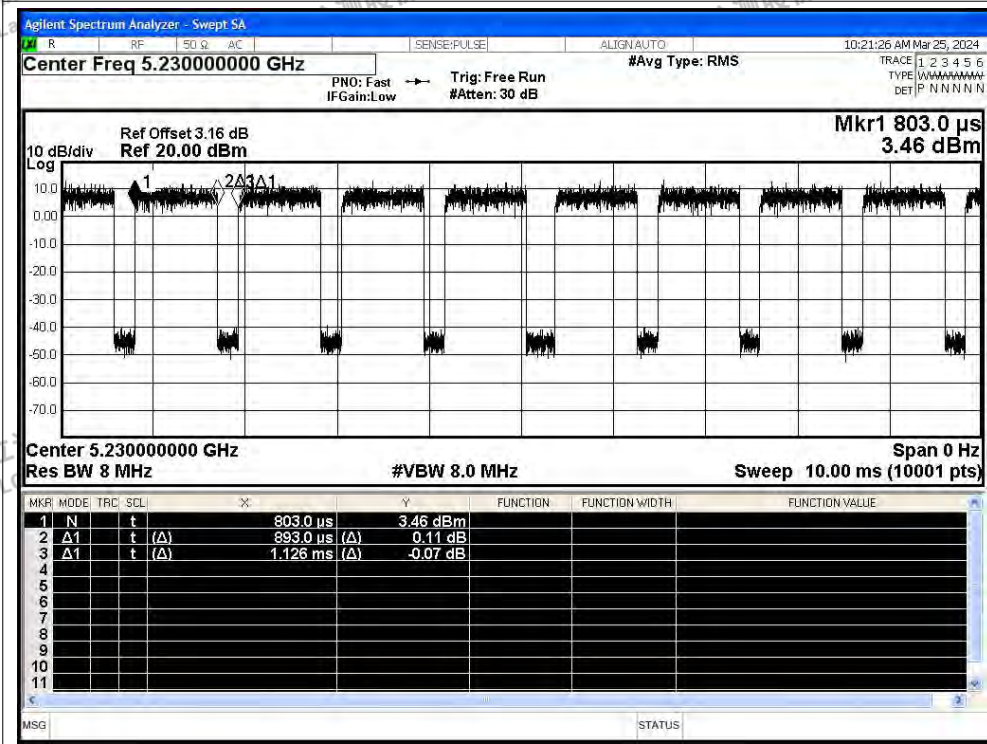




Duty Cycle NVNT n40 5190MHz Ant2

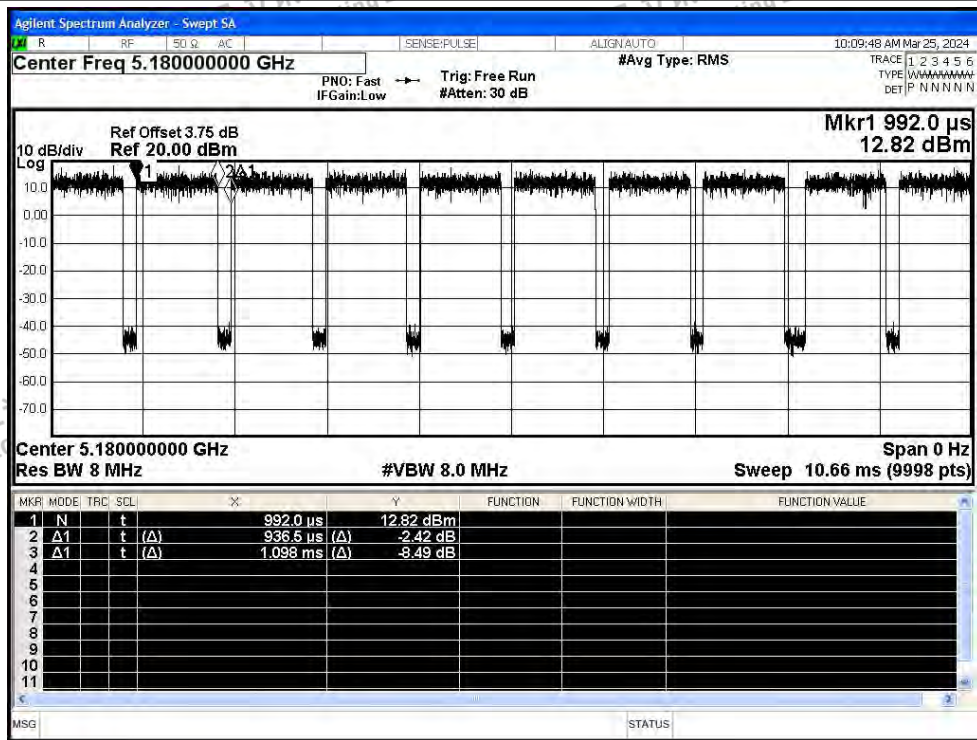


Duty Cycle NVNT n40 5230MHz Ant2

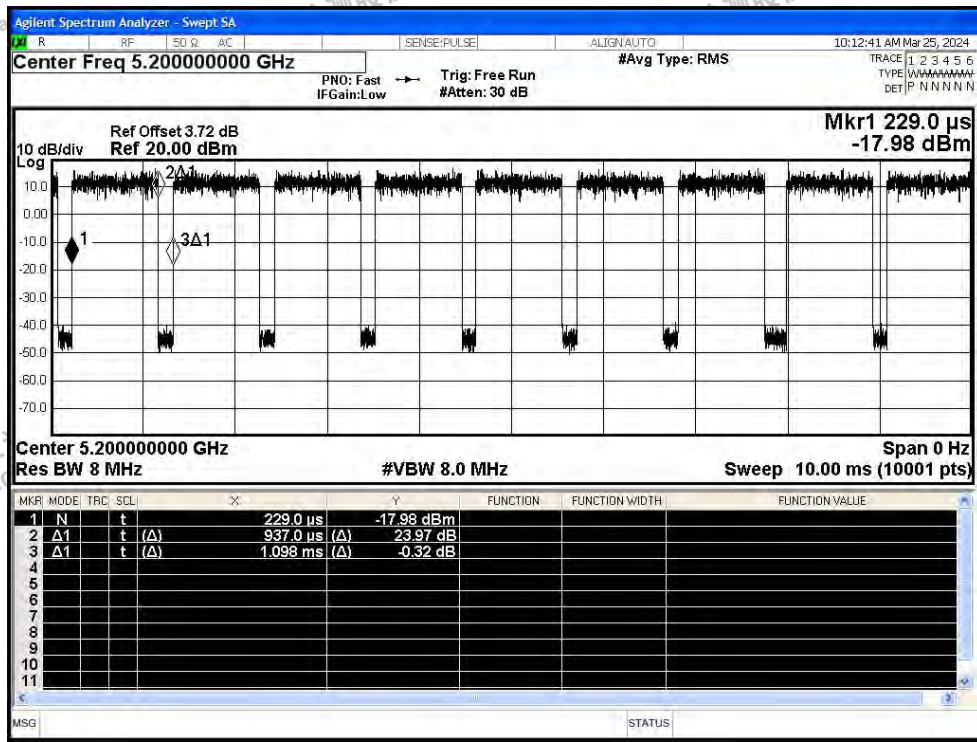




Duty Cycle NVNT ac20 5180MHz Ant2

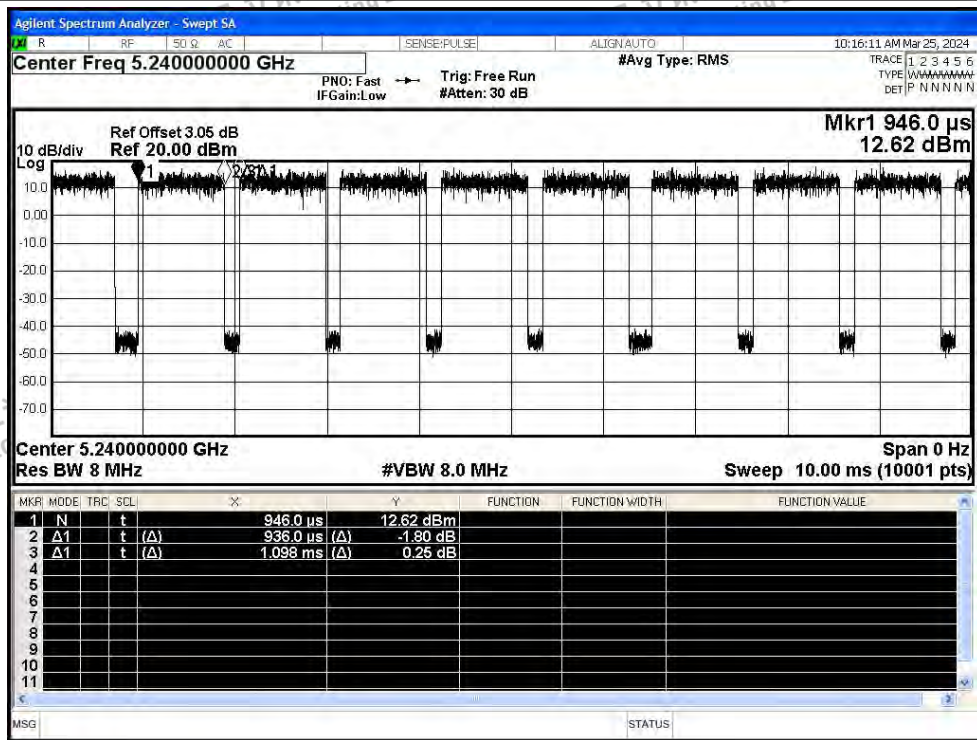


Duty Cycle NVNT ac20 5200MHz Ant2

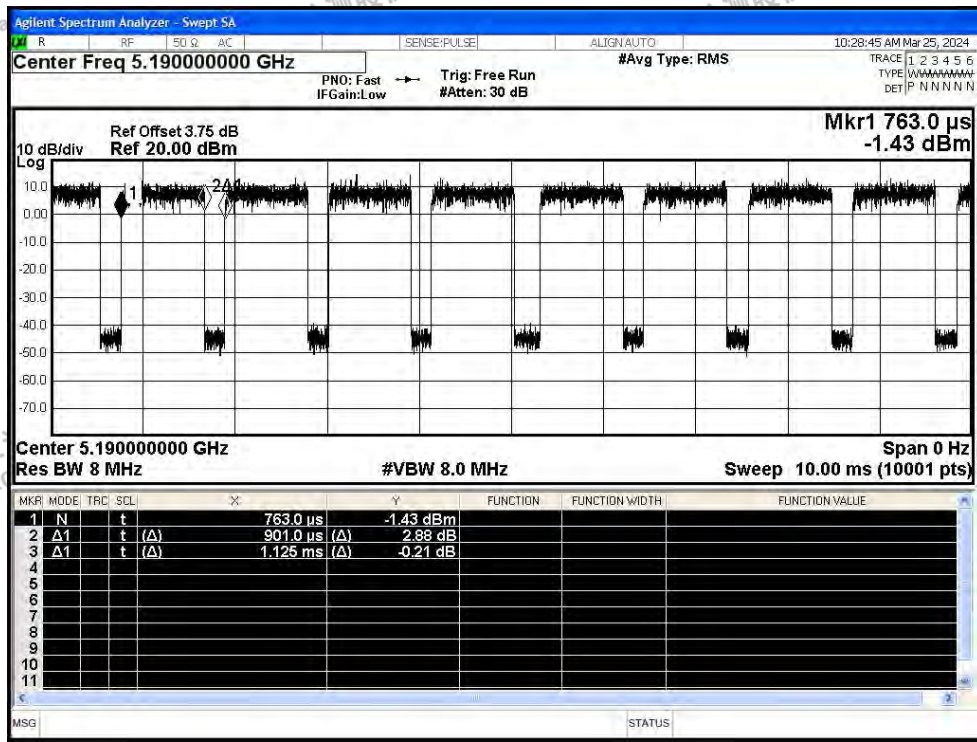




Duty Cycle NVNT ac20 5240MHz Ant2

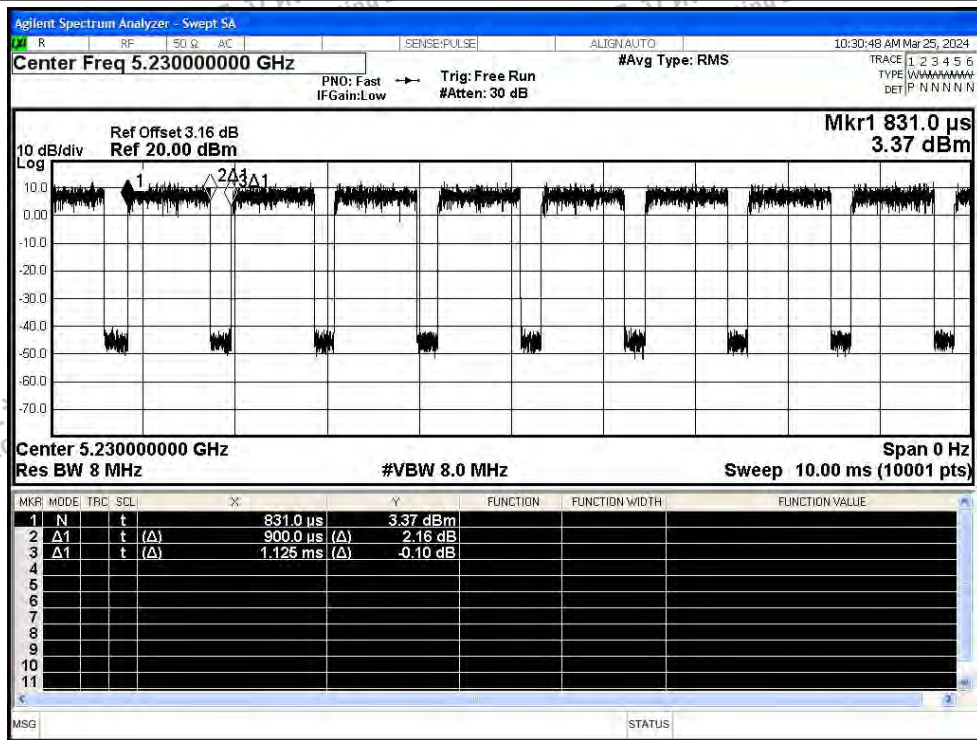


Duty Cycle NVNT ac40 5190MHz Ant2





Duty Cycle NVNT ac40 5230MHz Ant2



Duty Cycle NVNT ac80 5210MHz Ant2

