Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Wireless Adapter

Test Model: CF-943AX

Environmental Conditions

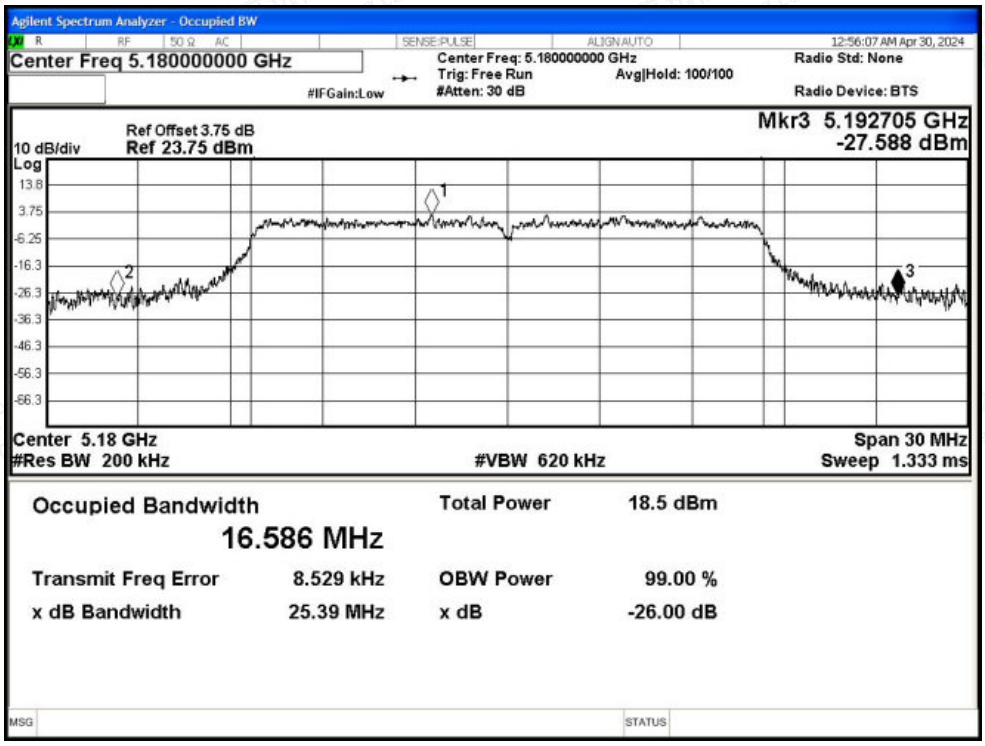
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng

D.1 -26dB Bandwidth

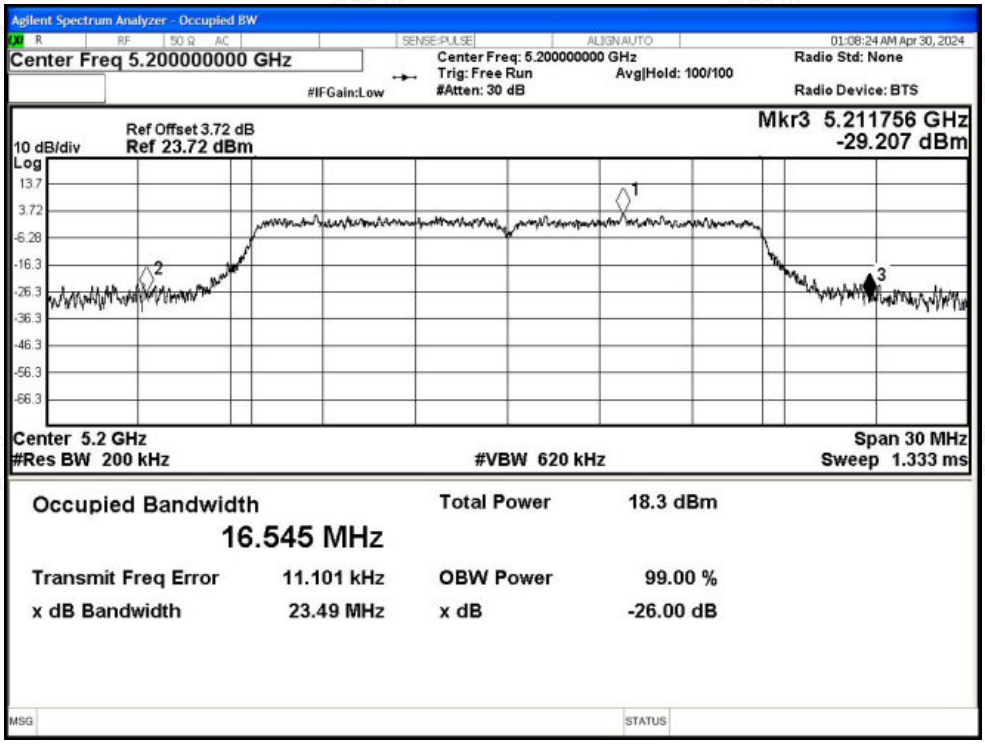
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	25.392	----	Pass
NVNT	a	5200	Ant1	23.491	----	Pass
NVNT	a	5240	Ant1	22.521	----	Pass
NVNT	n20	5180	Ant1	28.313	----	Pass
NVNT	n20	5200	Ant1	24.221	----	Pass
NVNT	n20	5240	Ant1	26.06	----	Pass
NVNT	n40	5190	Ant1	40.33	----	Pass
NVNT	n40	5230	Ant1	43.517	----	Pass
NVNT	ac20	5180	Ant1	26.408	----	Pass
NVNT	ac20	5200	Ant1	26.223	----	Pass
NVNT	ac20	5240	Ant1	24.888	----	Pass
NVNT	ac40	5190	Ant1	41.799	----	Pass
NVNT	ac40	5230	Ant1	39.763	----	Pass
NVNT	ac80	5210	Ant1	82.316	----	Pass
NVNT	ax20	5180	Ant1	28.677	----	Pass
NVNT	ax20	5200	Ant1	26.71	----	Pass
NVNT	ax20	5240	Ant1	26.495	----	Pass
NVNT	ax40	5190	Ant1	53.699	----	Pass
NVNT	ax40	5230	Ant1	41.091	----	Pass
NVNT	ax80	5210	Ant1	79.07	----	Pass

Test Graphs

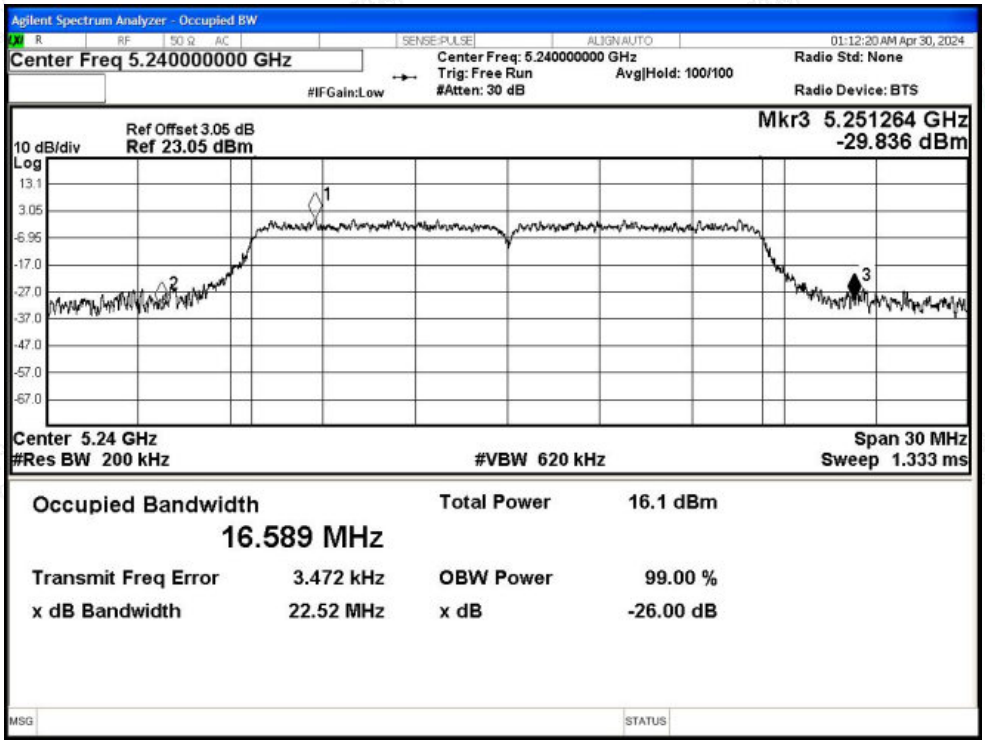
-26dB Bandwidth NVNT a 5180MHz Ant1



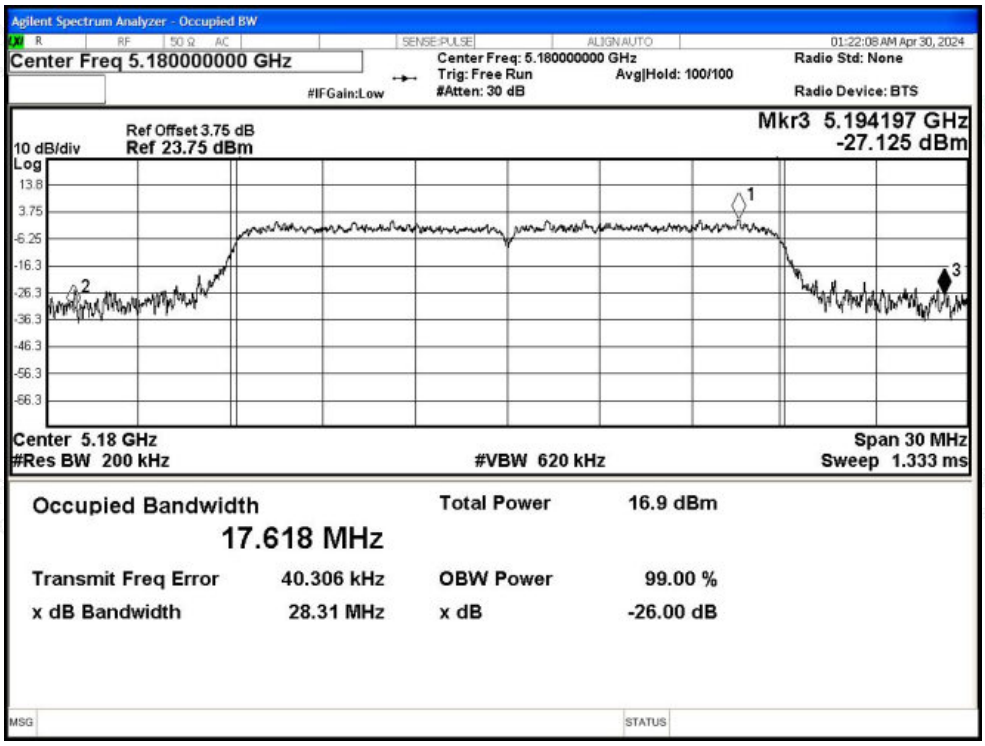
-26dB Bandwidth NVNT a 5200MHz Ant1



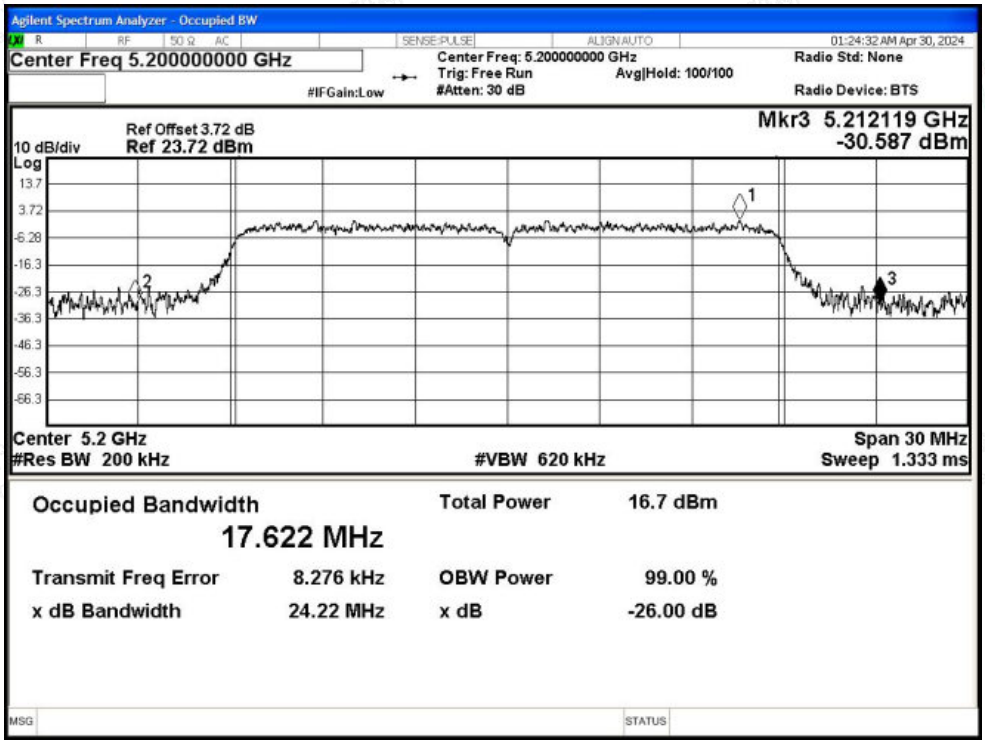
-26dB Bandwidth NVNT a 5240MHz Ant1



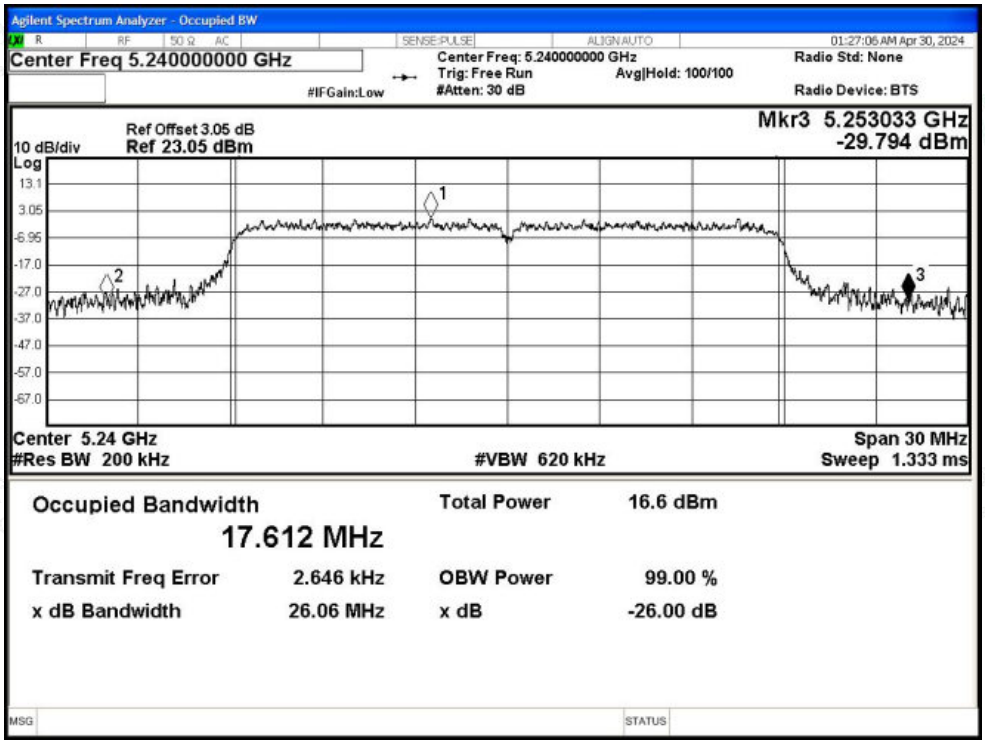
-26dB Bandwidth NVNT n20 5180MHz Ant1



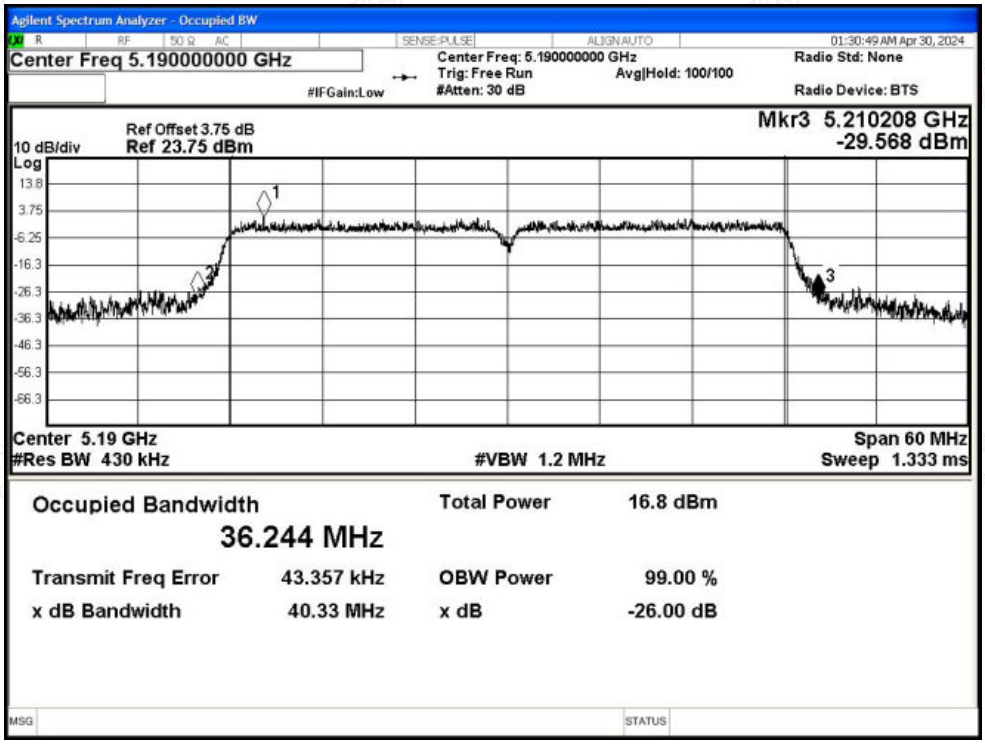
-26dB Bandwidth NVNT n20 5200MHz Ant1



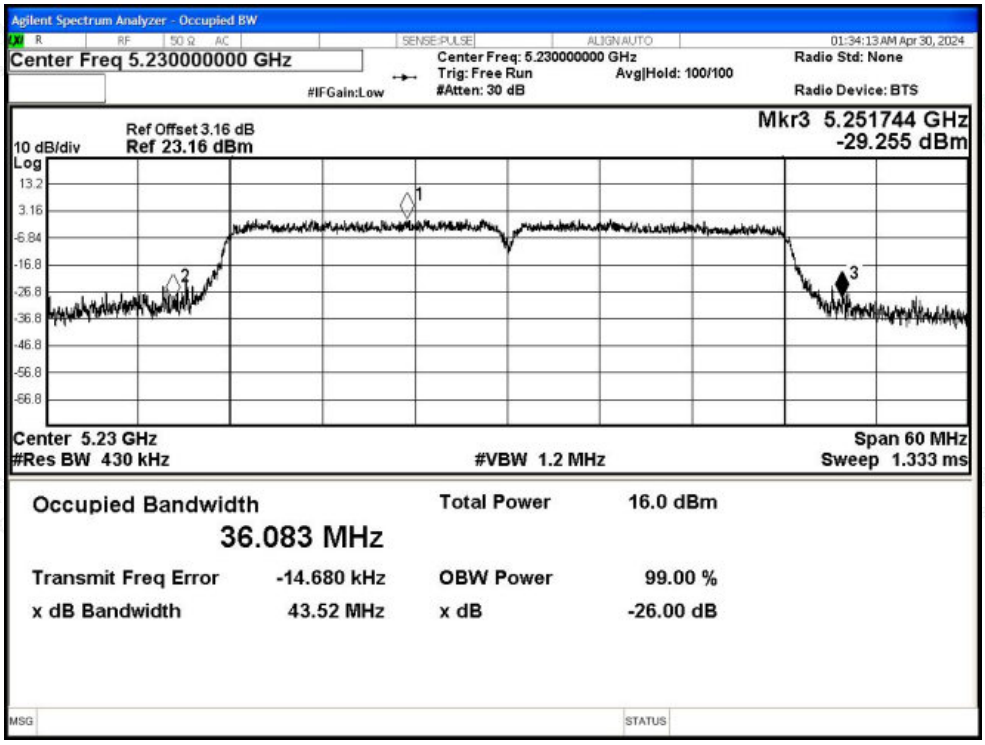
-26dB Bandwidth NVNT n20 5240MHz Ant1



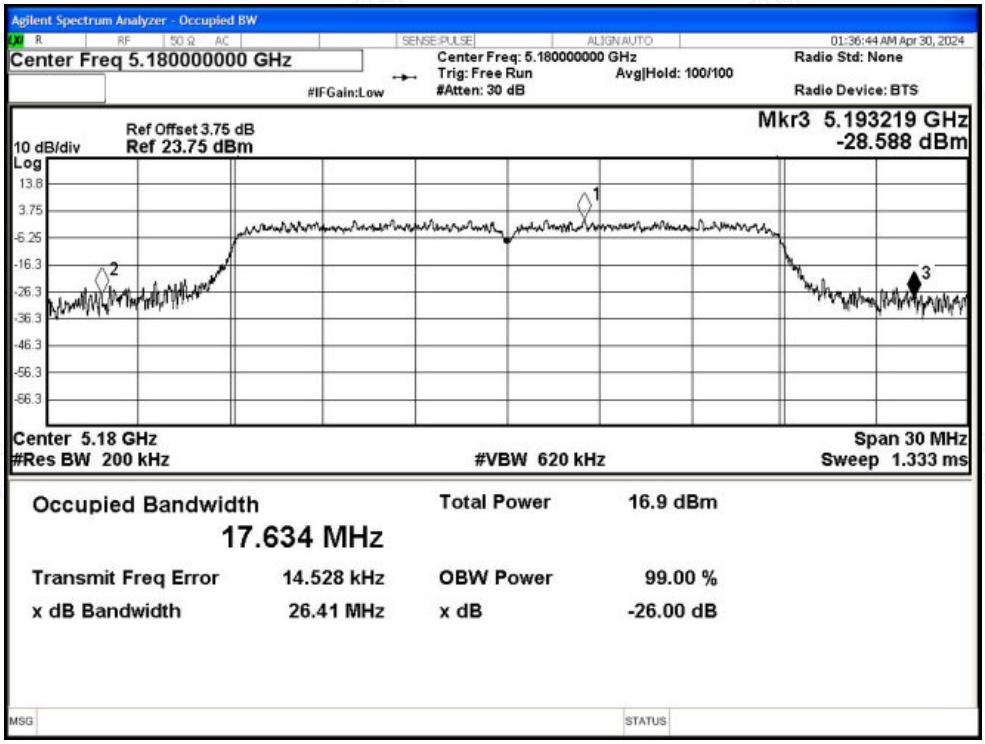
-26dB Bandwidth NVNT n40 5190MHz Ant1



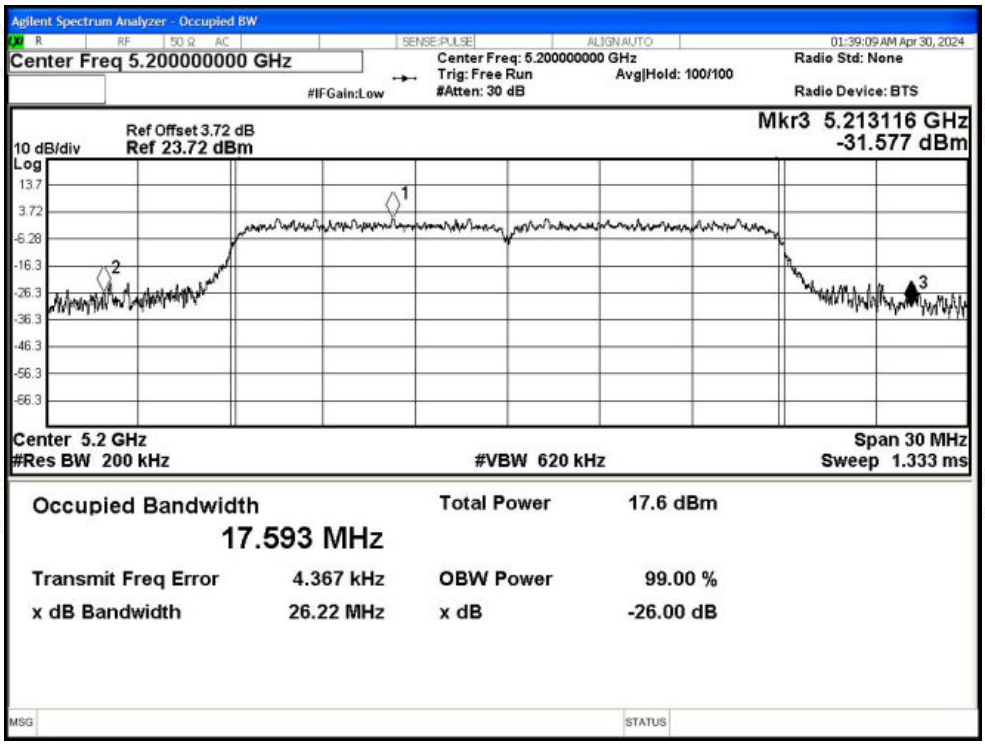
-26dB Bandwidth NVNT n40 5230MHz Ant1



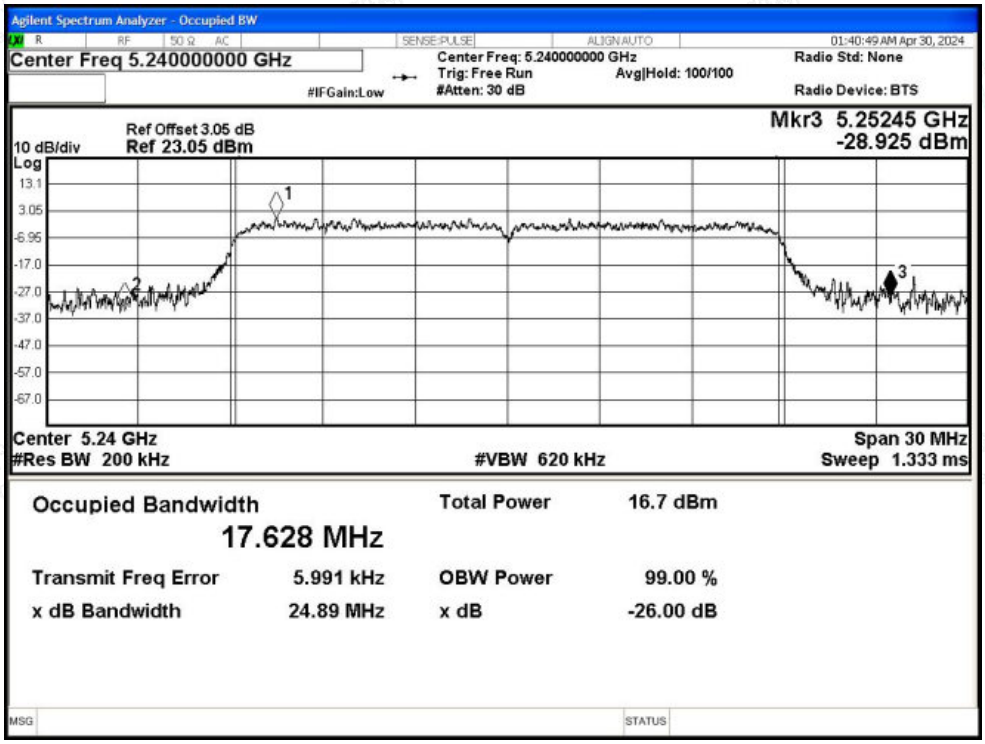
-26dB Bandwidth NVNT ac20 5180MHz Ant1



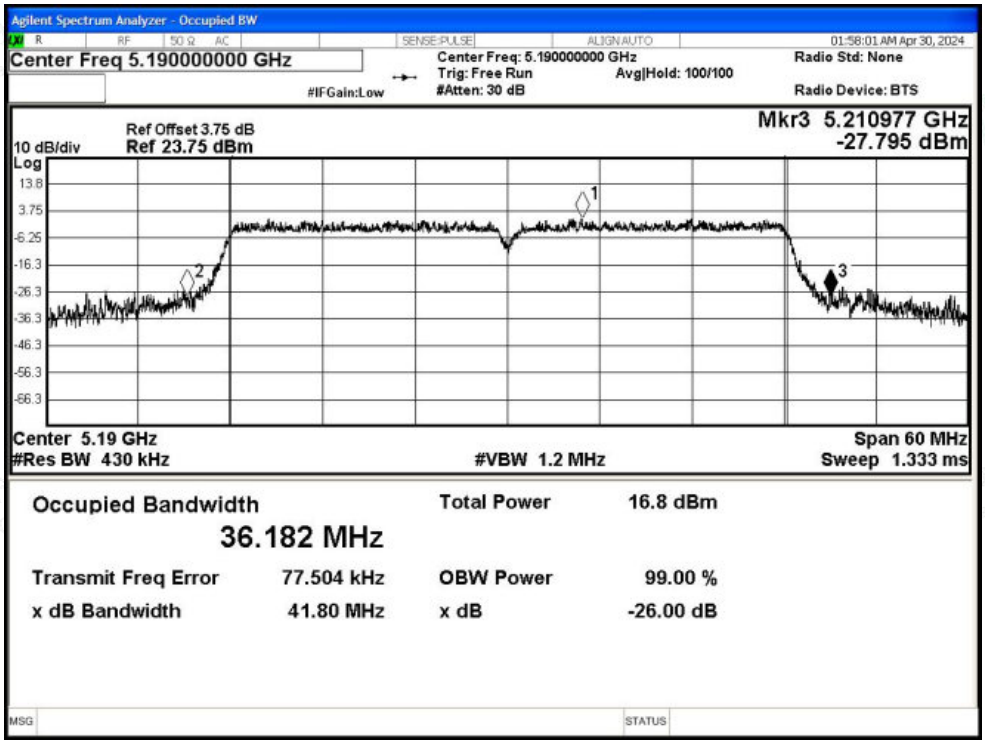
-26dB Bandwidth NVNT ac20 5200MHz Ant1



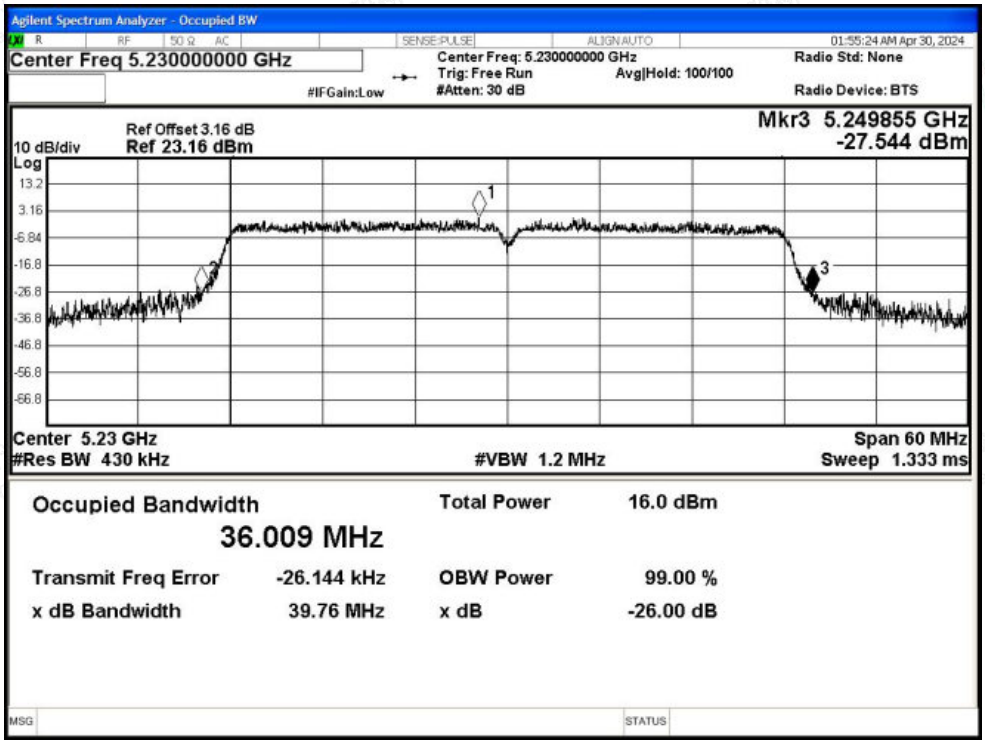
-26dB Bandwidth NVNT ac20 5240MHz Ant1



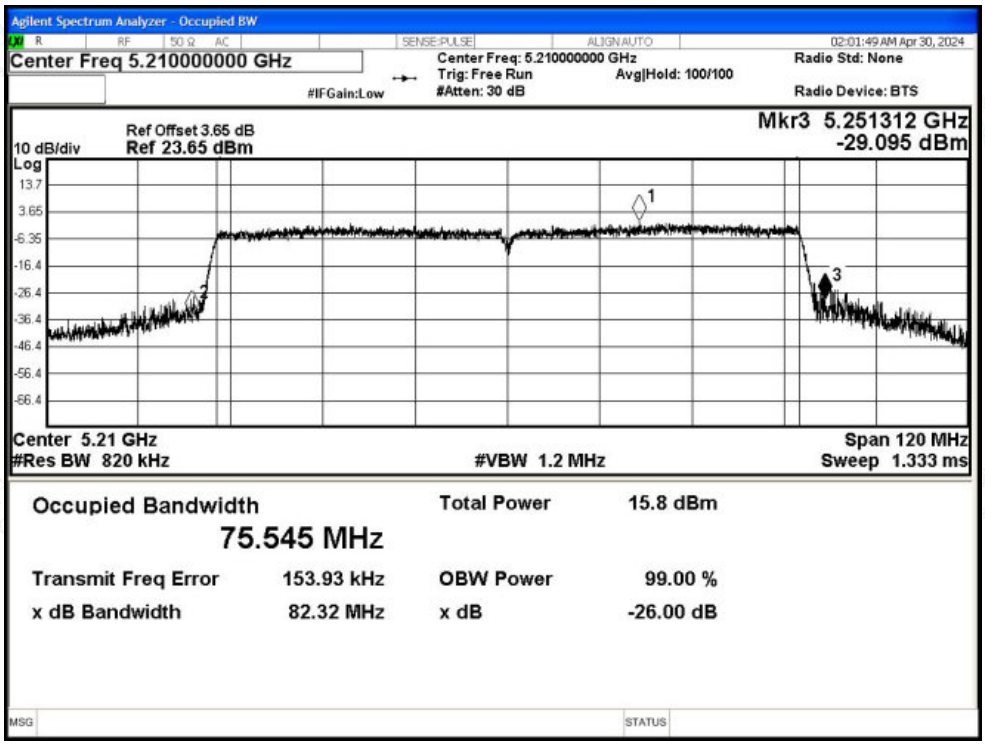
-26dB Bandwidth NVNT ac40 5190MHz Ant1



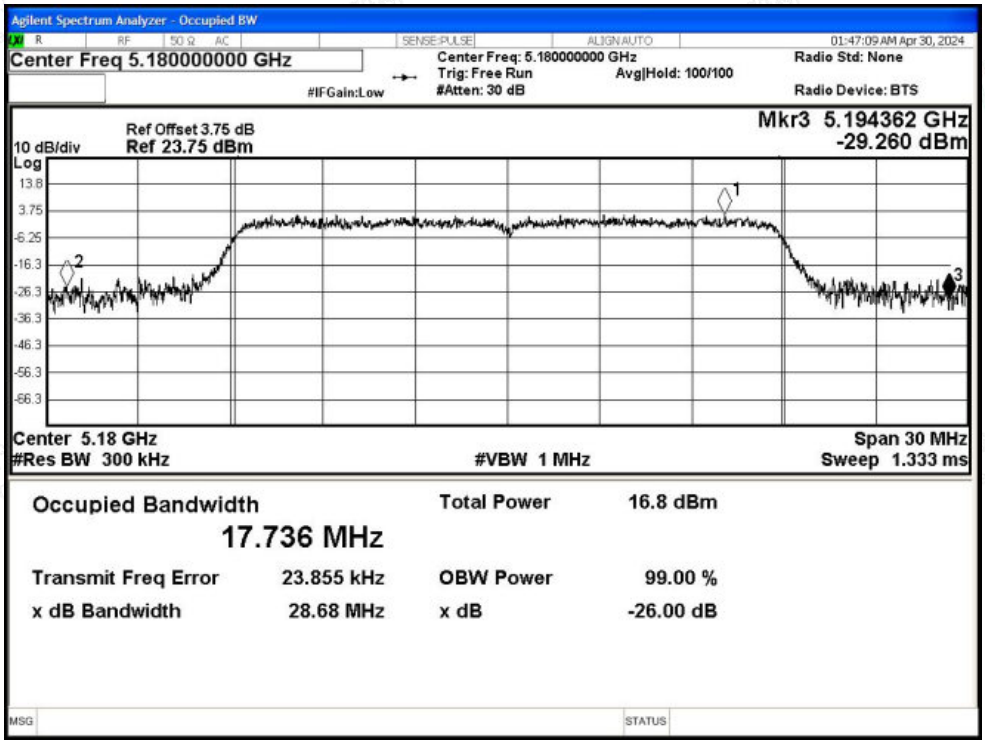
-26dB Bandwidth NVNT ac40 5230MHz Ant1



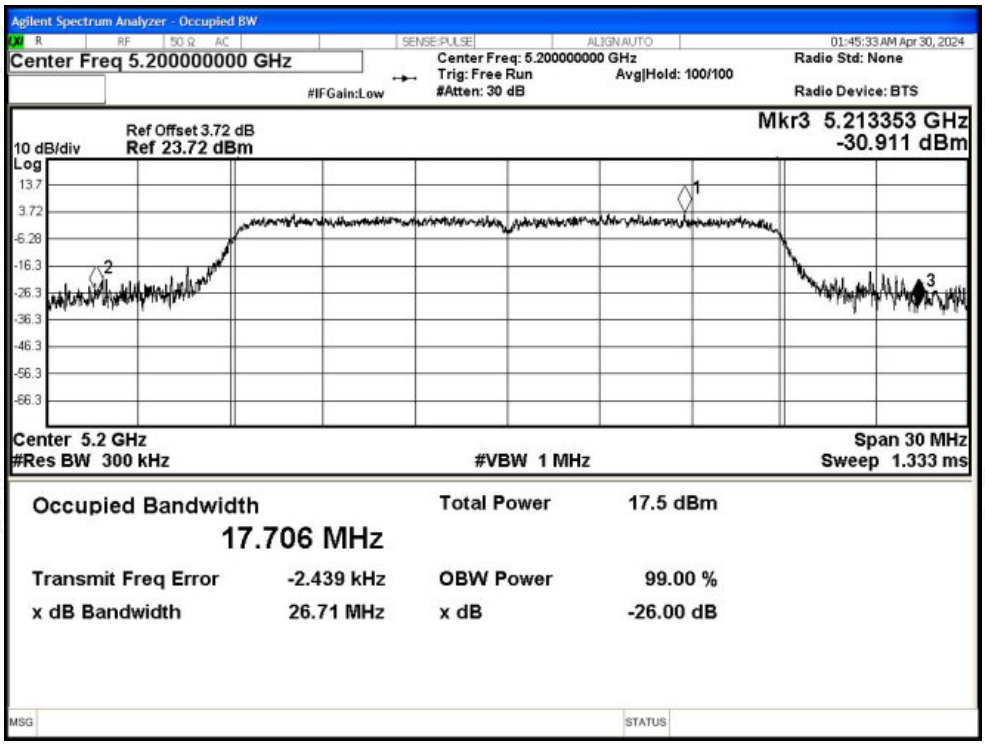
-26dB Bandwidth NVNT ac80 5210MHz Ant1



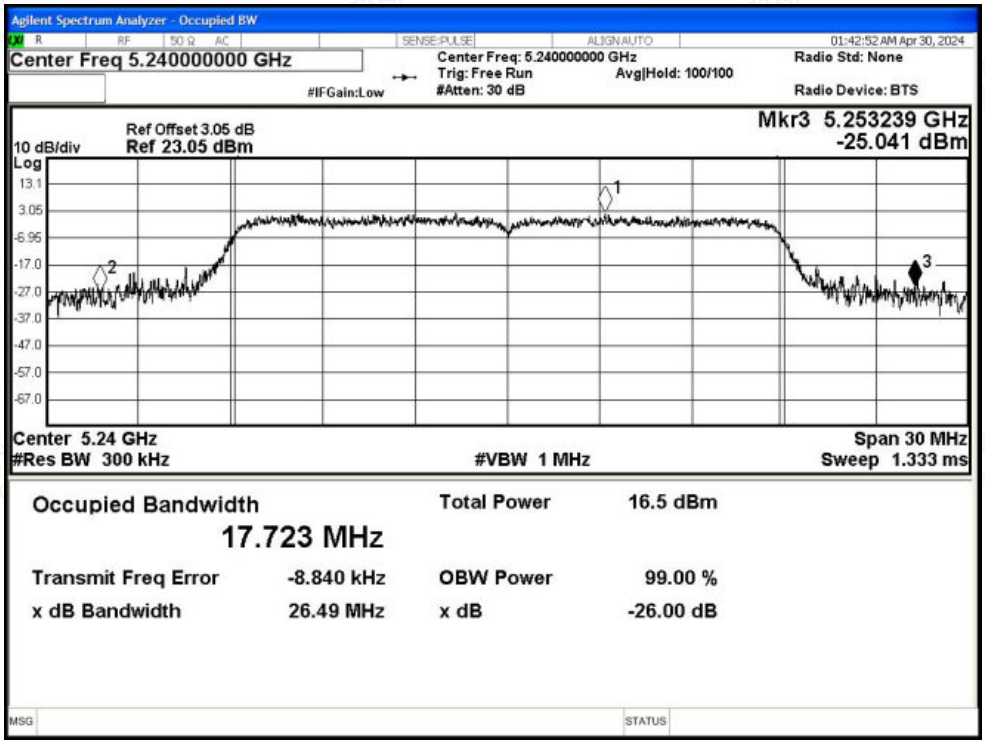
-26dB Bandwidth NVNT ax20 5180MHz Ant1



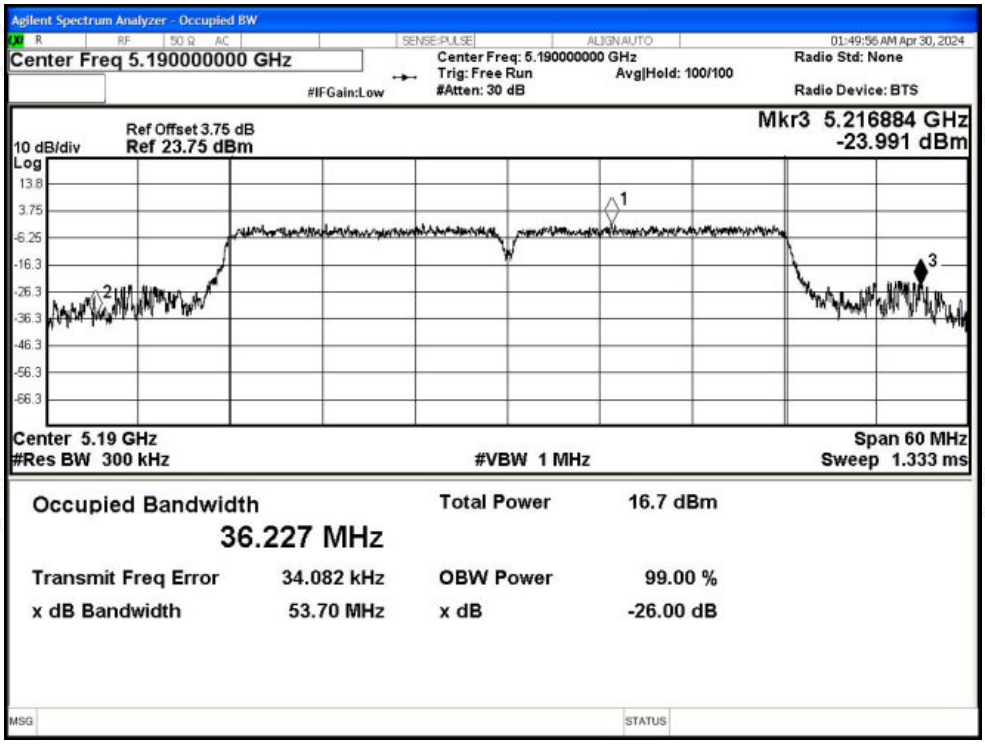
-26dB Bandwidth NVNT ax20 5200MHz Ant1



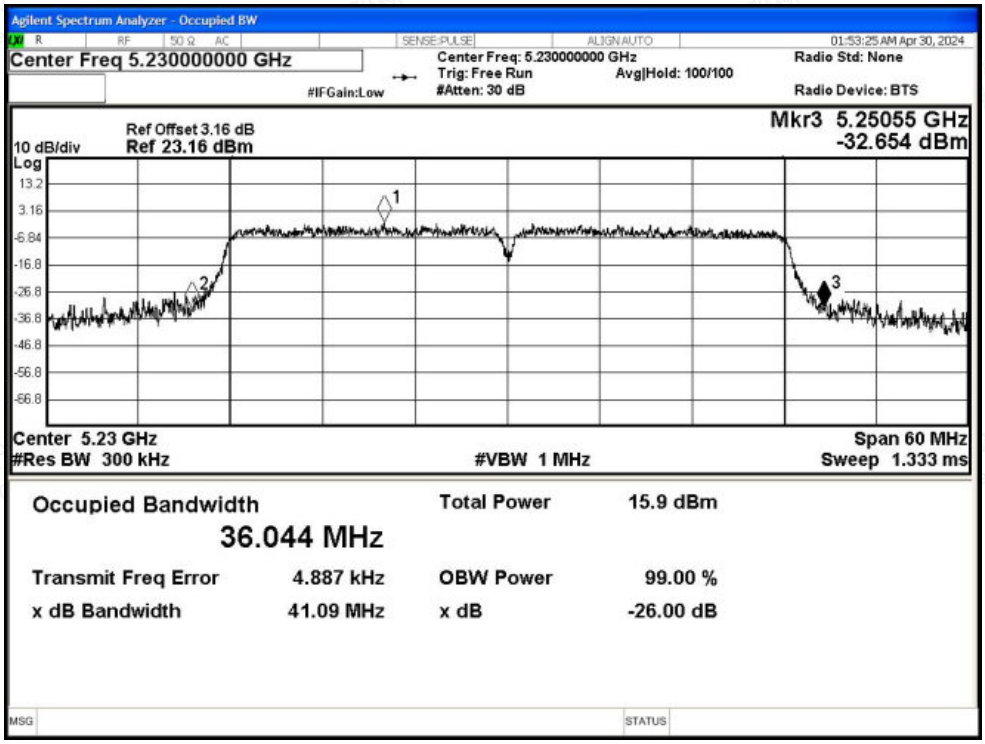
-26dB Bandwidth NVNT ax20 5240MHz Ant1



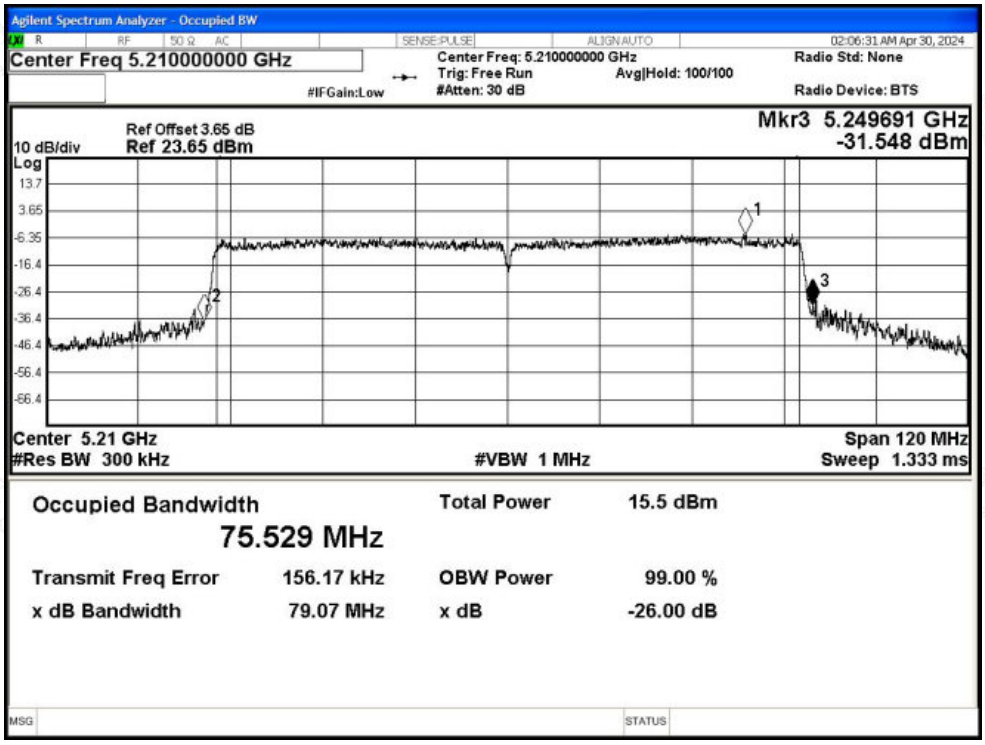
-26dB Bandwidth NVNT ax40 5190MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant1



-26dB Bandwidth NVNT ax80 5210MHz Ant1



D.2 Maximum Conducted Output Power

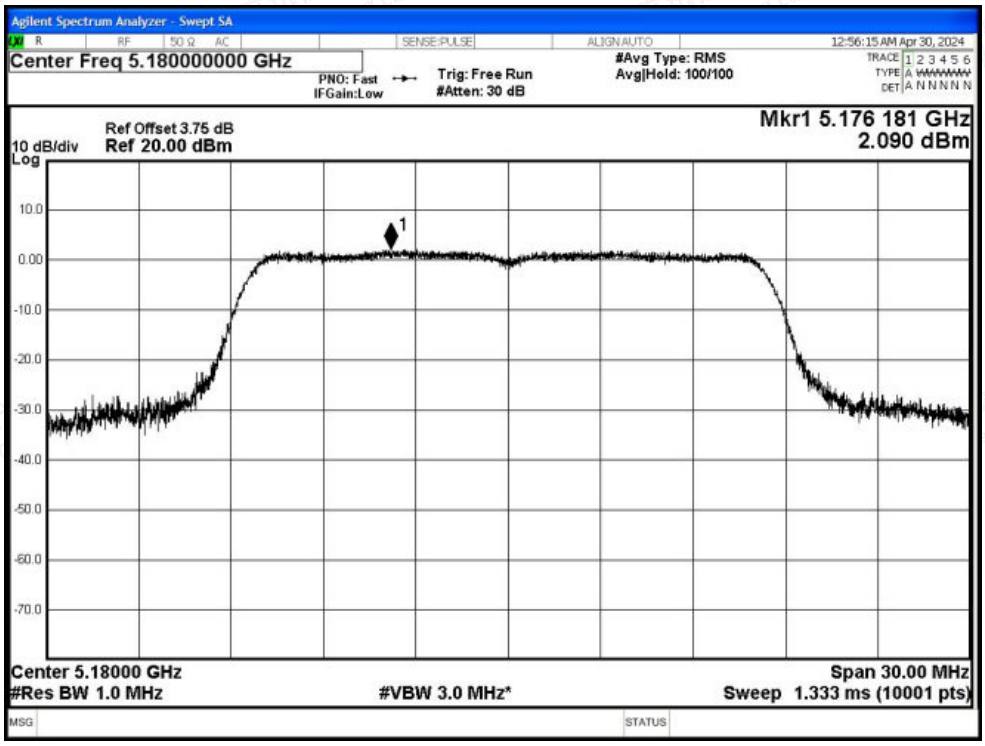
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.75	0.24	12.99	24	Pass
NVNT	a	5200	Ant1	12.53	0.24	12.77	24	Pass
NVNT	a	5240	Ant1	12.6	0.24	12.84	24	Pass
NVNT	n20	5180	Ant1	11.17	0.28	11.45	24	Pass
NVNT	n20	5200	Ant1	11.76	0.28	12.04	24	Pass
NVNT	n20	5240	Ant1	11.82	0.28	12.1	24	Pass
NVNT	n40	5190	Ant1	10.63	0.24	10.87	24	Pass
NVNT	n40	5230	Ant1	10.08	0.24	10.32	24	Pass
NVNT	ac20	5180	Ant1	11.13	0.28	11.41	24	Pass
NVNT	ac20	5200	Ant1	11.84	0.28	12.12	24	Pass
NVNT	ac20	5240	Ant1	11.93	0.28	12.21	24	Pass
NVNT	ac40	5190	Ant1	10.01	0.12	10.13	24	Pass
NVNT	ac40	5230	Ant1	10.11	0.12	10.23	24	Pass
NVNT	ac80	5210	Ant1	9.07	0.25	9.32	24	Pass
NVNT	ax20	5180	Ant1	11.16	0.28	11.44	24	Pass
NVNT	ax20	5200	Ant1	11.77	0.28	12.05	24	Pass
NVNT	ax20	5240	Ant1	11.9	0.28	12.18	24	Pass
NVNT	ax40	5190	Ant1	10.69	0.12	10.81	24	Pass
NVNT	ax40	5230	Ant1	10.14	0.12	10.26	24	Pass
NVNT	ax80	5210	Ant1	9.06	0.25	9.31	24	Pass

D.3 Maximum Power Spectral Density Level

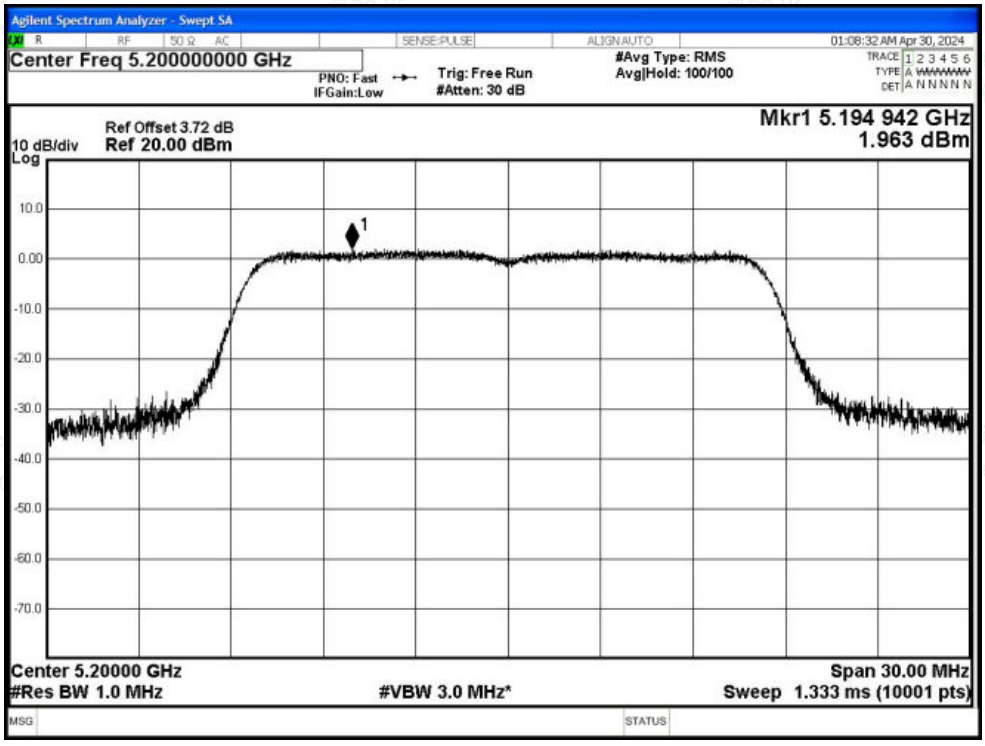
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.09	0.24	2.33	11	Pass
NVNT	a	5200	Ant1	1.96	0.24	2.2	11	Pass
NVNT	a	5240	Ant1	-0.17	0.24	0.07	11	Pass
NVNT	n20	5180	Ant1	0.58	0.28	0.86	11	Pass
NVNT	n20	5200	Ant1	0.33	0.28	0.61	11	Pass
NVNT	n20	5240	Ant1	0.22	0.28	0.5	11	Pass
NVNT	n40	5190	Ant1	-2.84	0.24	-2.6	11	Pass
NVNT	n40	5230	Ant1	-3.74	0.24	-3.5	11	Pass
NVNT	ac20	5180	Ant1	0.38	0.28	0.66	11	Pass
NVNT	ac20	5200	Ant1	0.93	0.28	1.21	11	Pass
NVNT	ac20	5240	Ant1	0.09	0.28	0.37	11	Pass
NVNT	ac40	5190	Ant1	-2.57	0.12	-2.45	11	Pass
NVNT	ac40	5230	Ant1	-3.65	0.12	-3.53	11	Pass
NVNT	ac80	5210	Ant1	-6.82	0.25	-6.57	11	Pass
NVNT	ax20	5180	Ant1	0.38	0.28	0.66	11	Pass
NVNT	ax20	5200	Ant1	1.04	0.28	1.32	11	Pass
NVNT	ax20	5240	Ant1	0.15	0.28	0.43	11	Pass
NVNT	ax40	5190	Ant1	-2.93	0.12	-2.81	11	Pass
NVNT	ax40	5230	Ant1	-3.36	0.12	-3.24	11	Pass
NVNT	ax80	5210	Ant1	-6.51	0.25	-6.26	11	Pass

Test Graphs

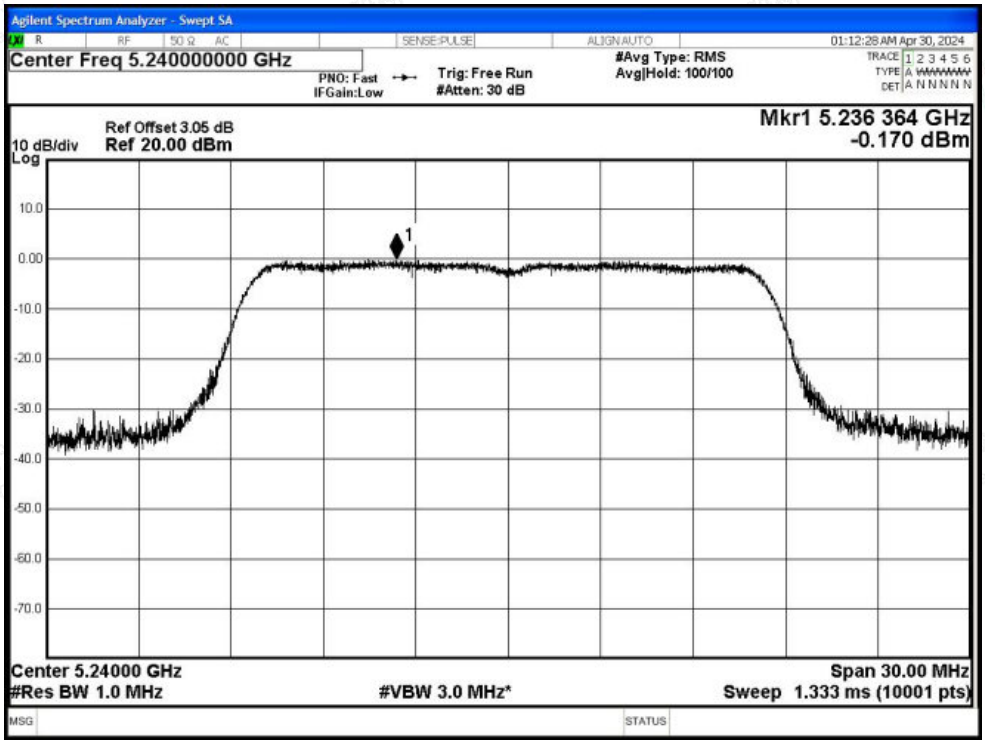
PSD NVNT a 5180MHz Ant1



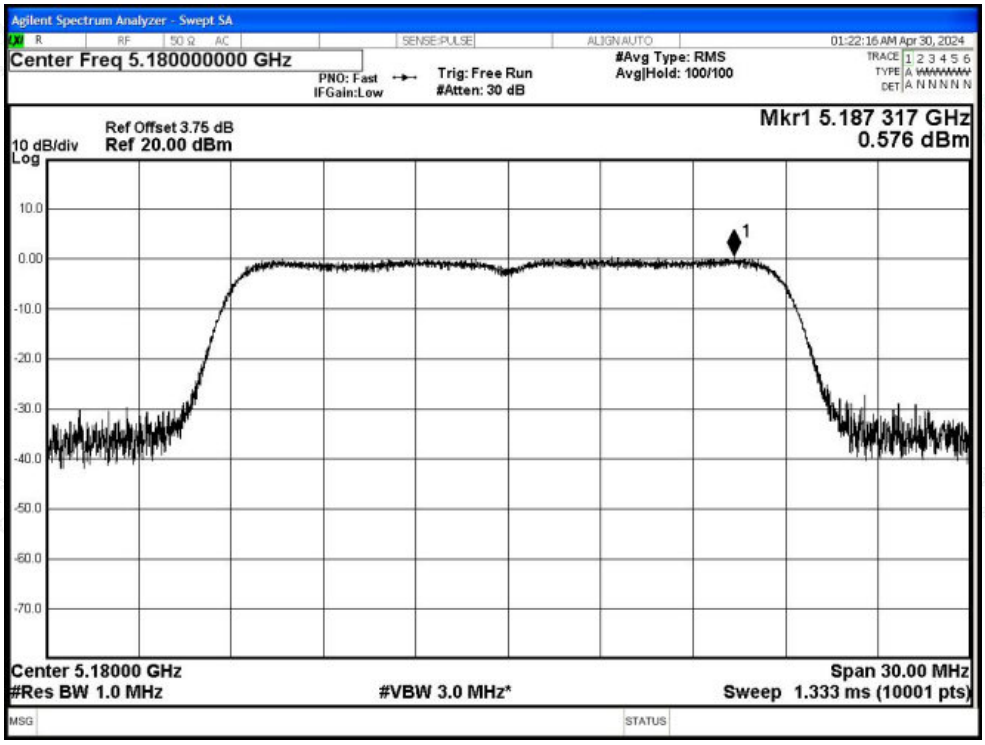
PSD NVNT a 5200MHz Ant1



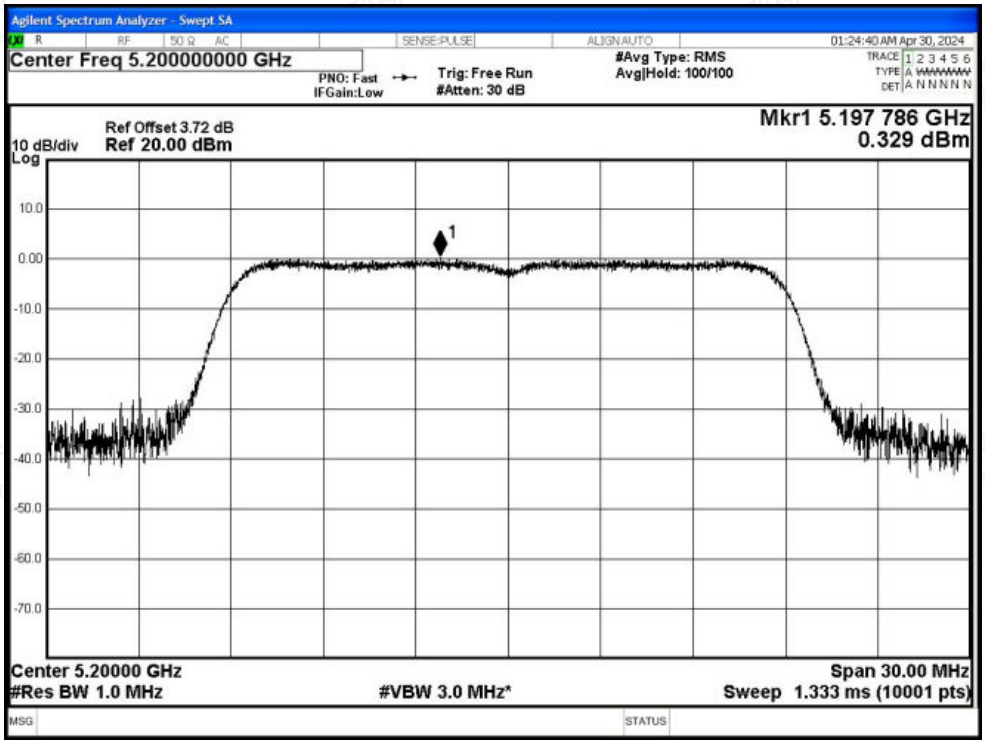
PSD NVNT a 5240MHz Ant1



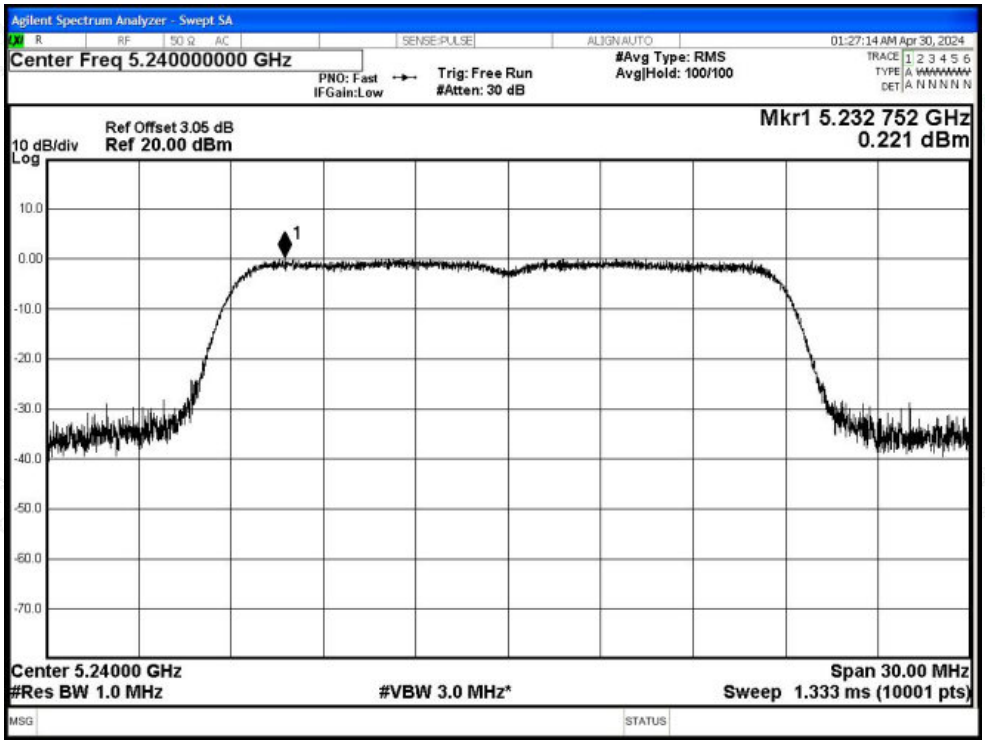
PSD NVNT n20 5180MHz Ant1



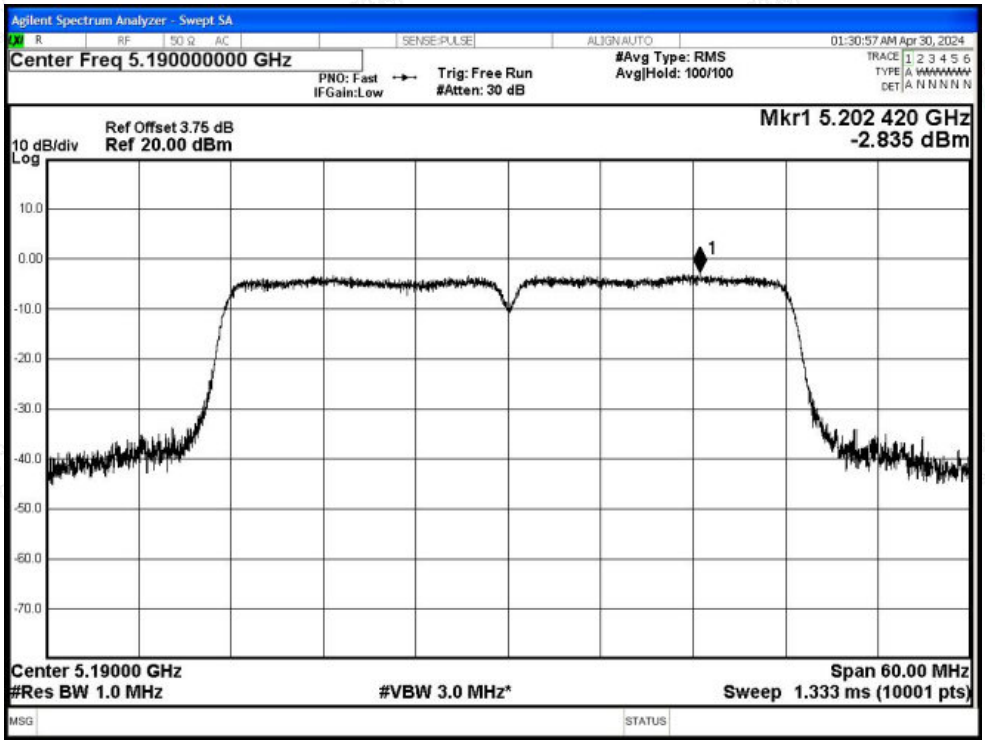
PSD NVNT n20 5200MHz Ant1



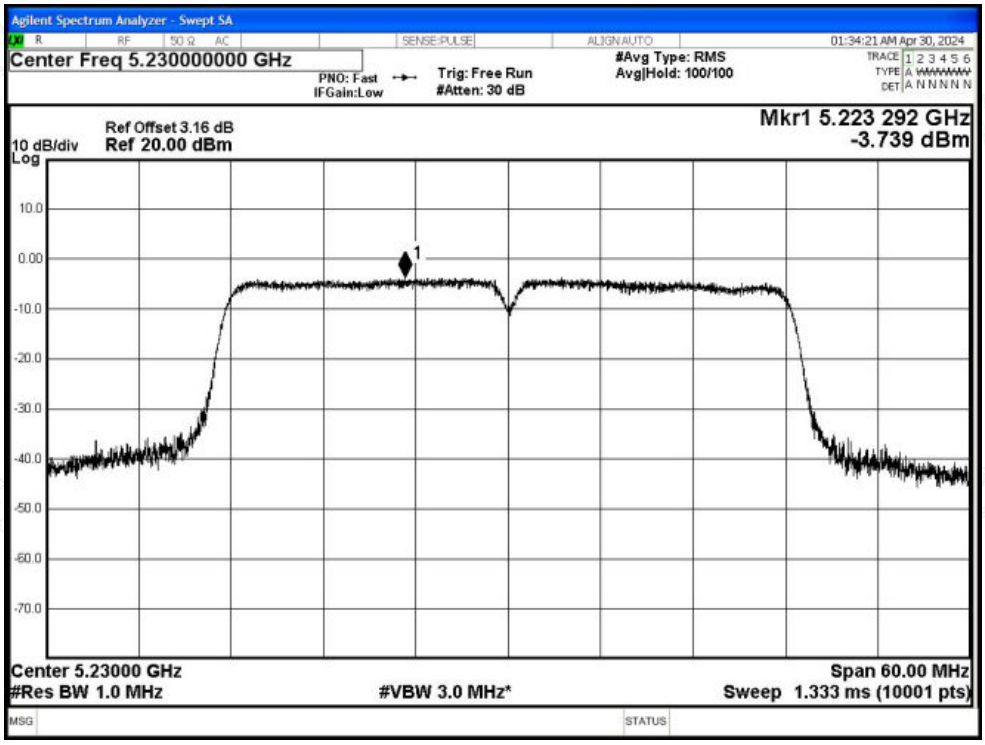
PSD NVNT n20 5240MHz Ant1



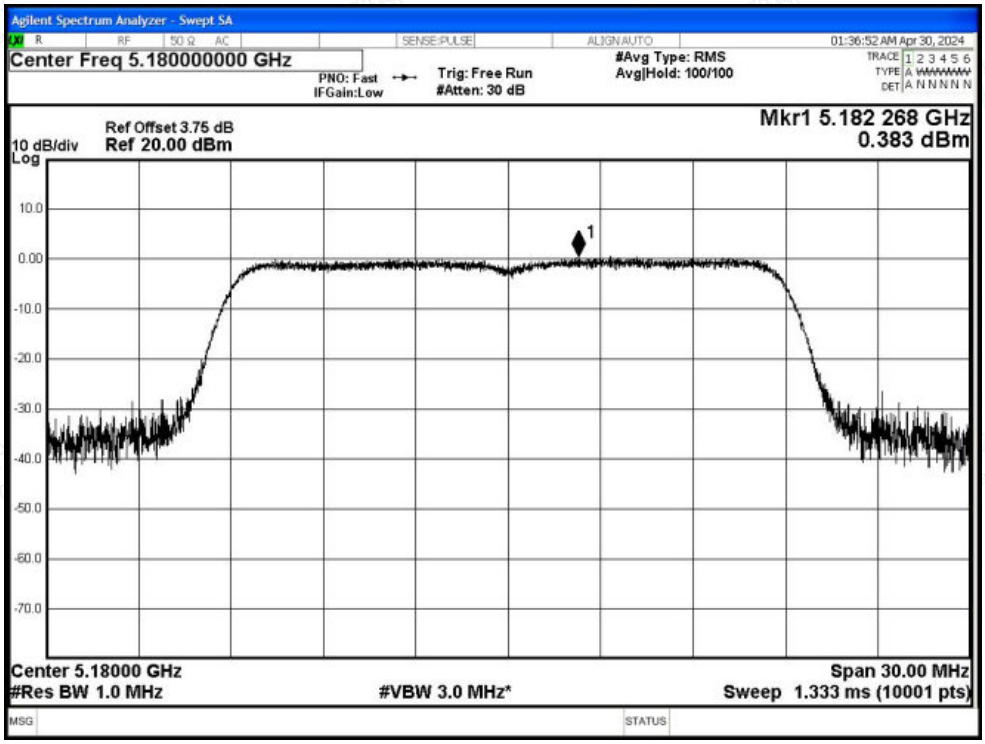
PSD NVNT n40 5190MHz Ant1



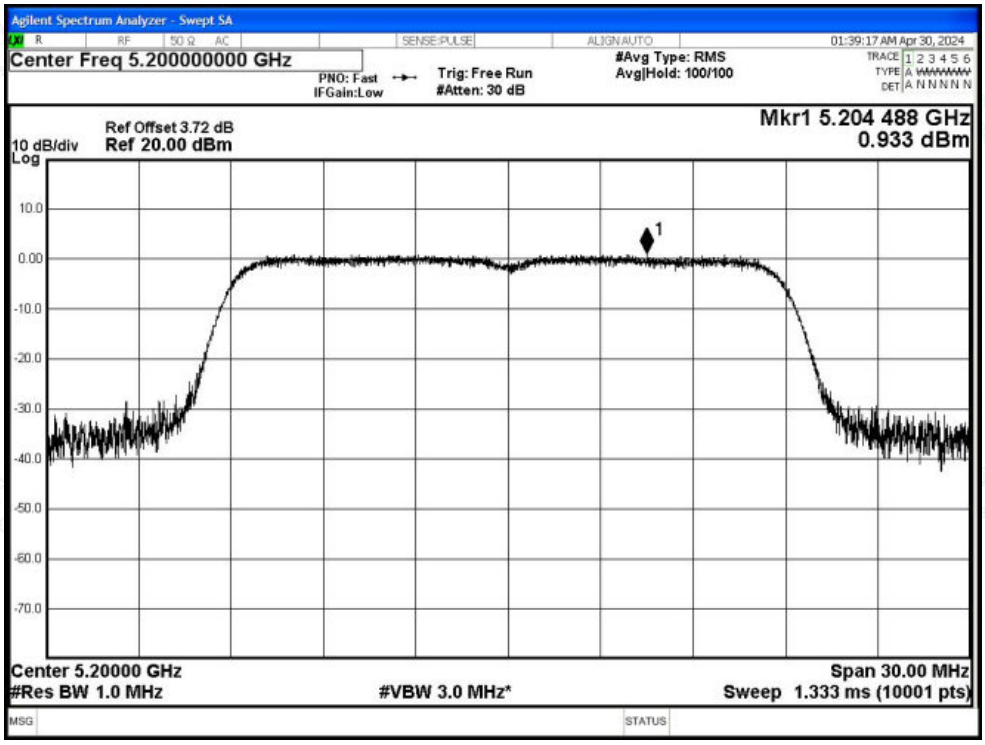
PSD NVNT n40 5230MHz Ant1



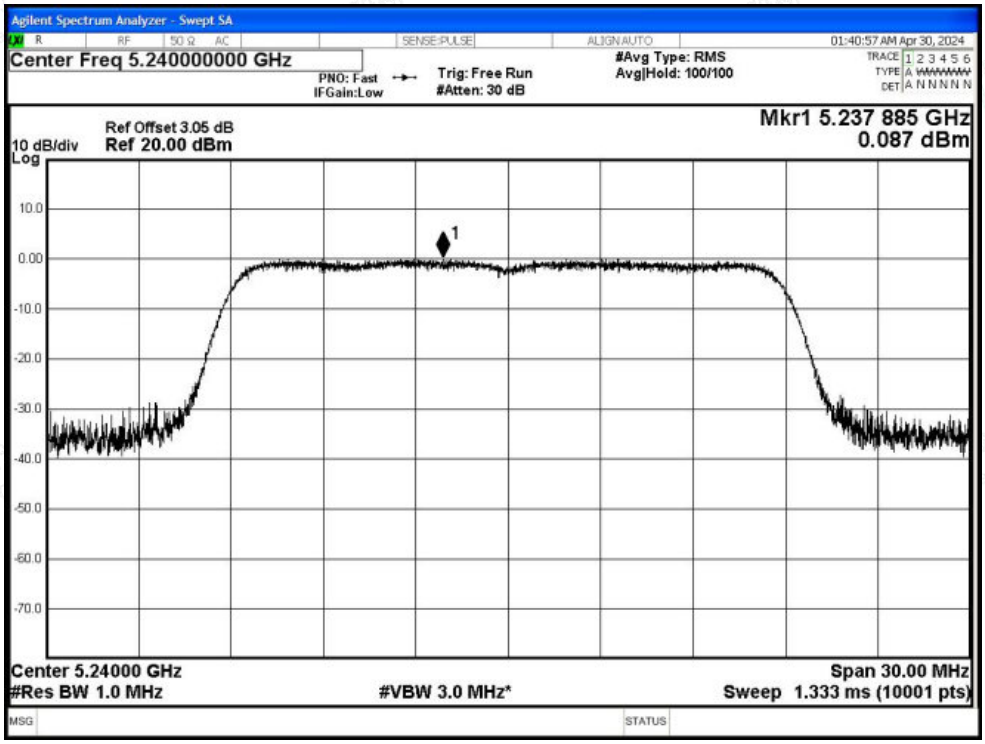
PSD NVNT ac20 5180MHz Ant1



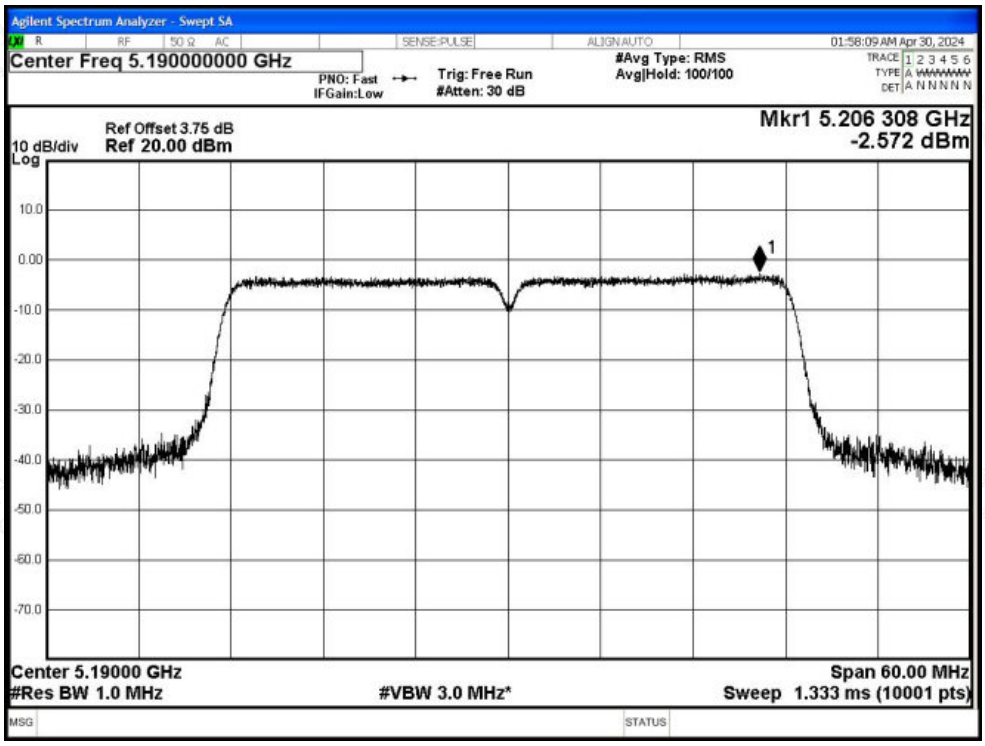
PSD NVNT ac20 5200MHz Ant1



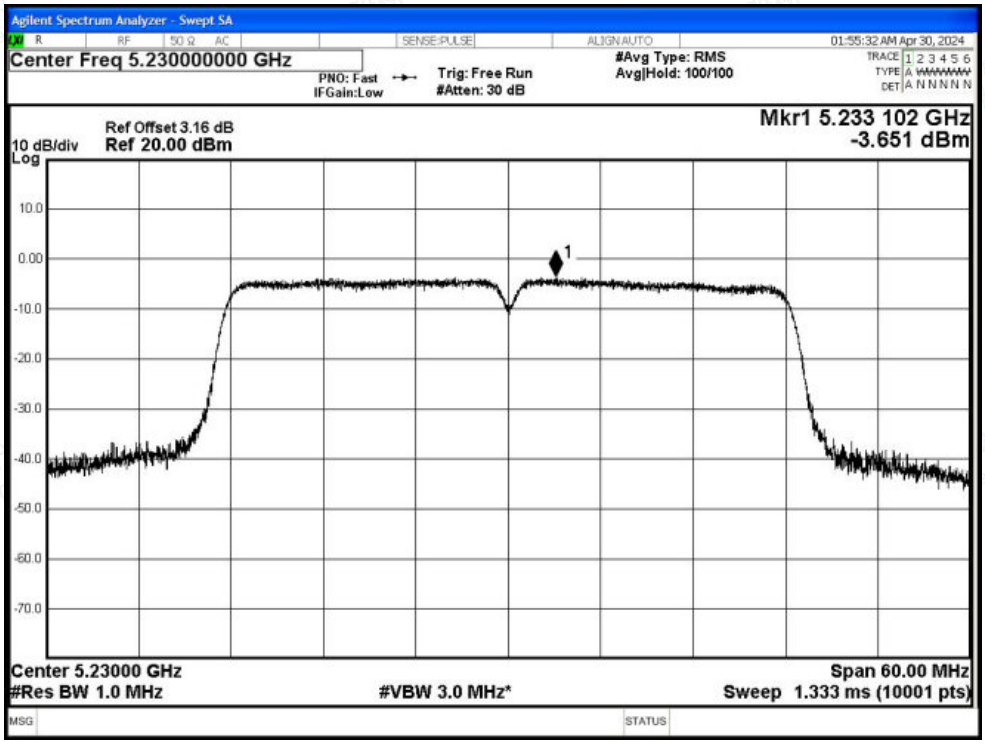
PSD NVNT ac20 5240MHz Ant1



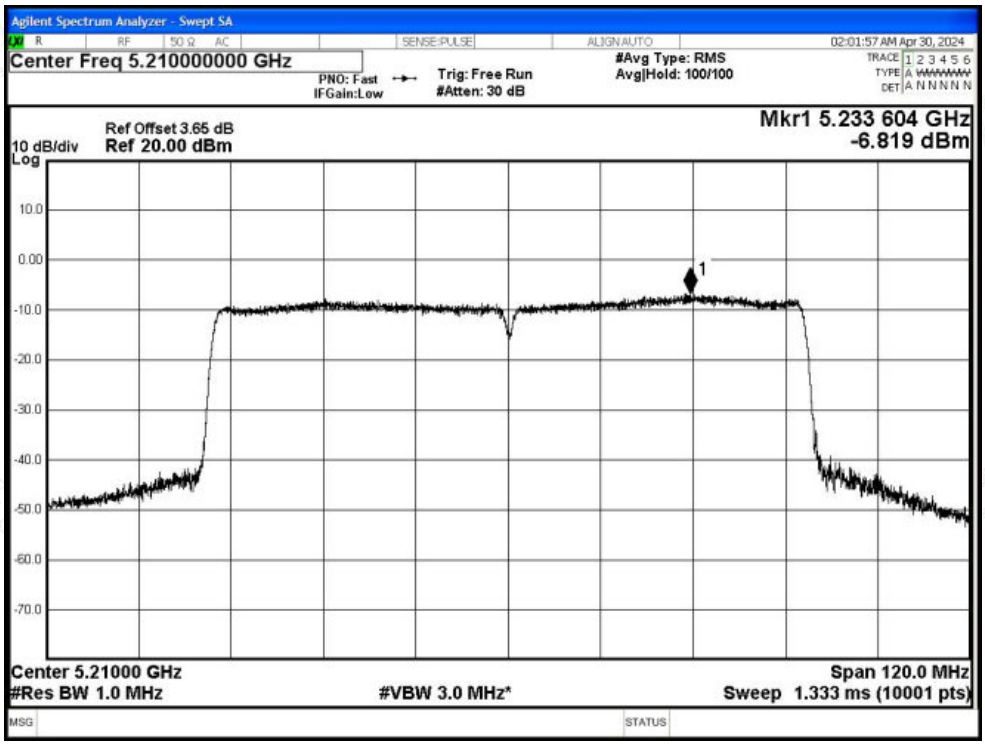
PSD NVNT ac40 5190MHz Ant1



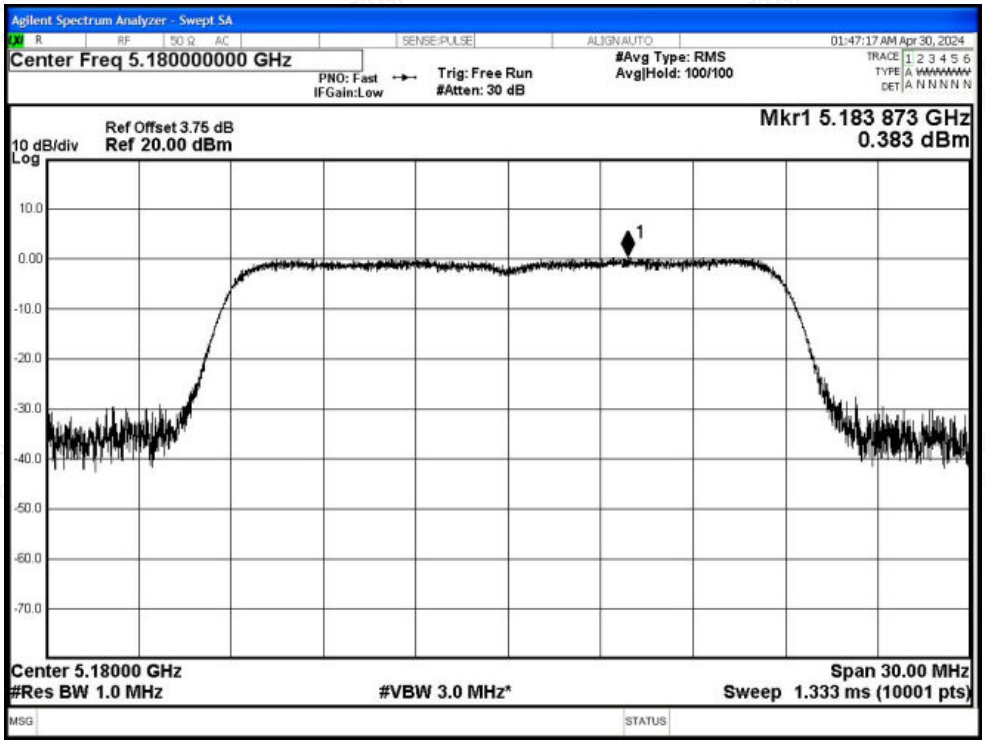
PSD NVNT ac40 5230MHz Ant1



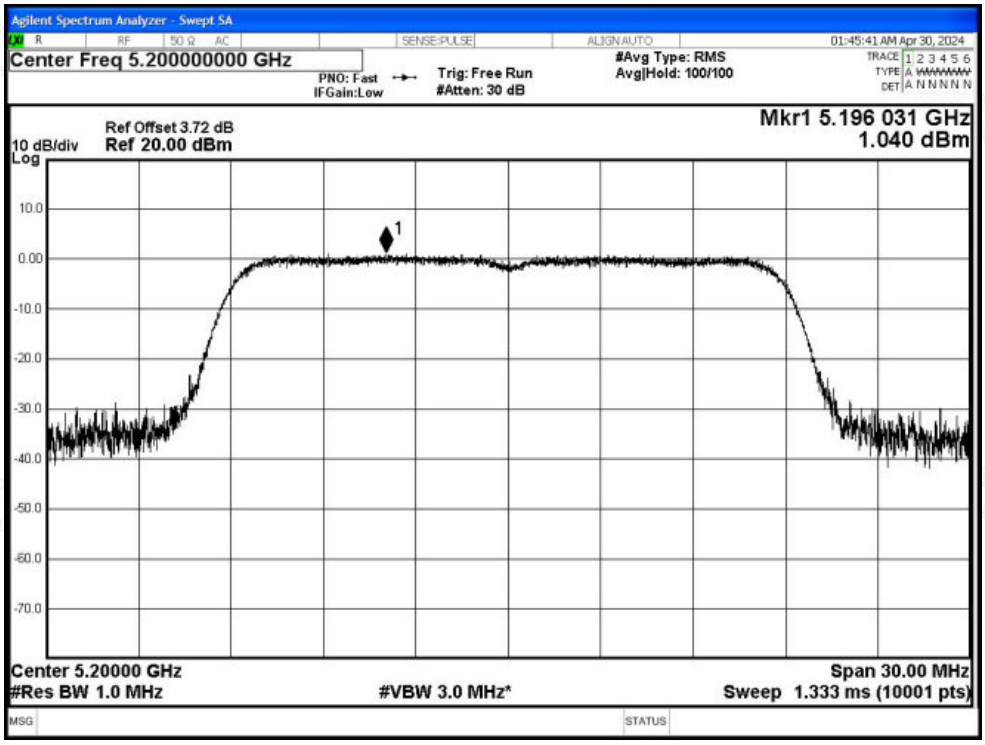
PSD NVNT ac80 5210MHz Ant1



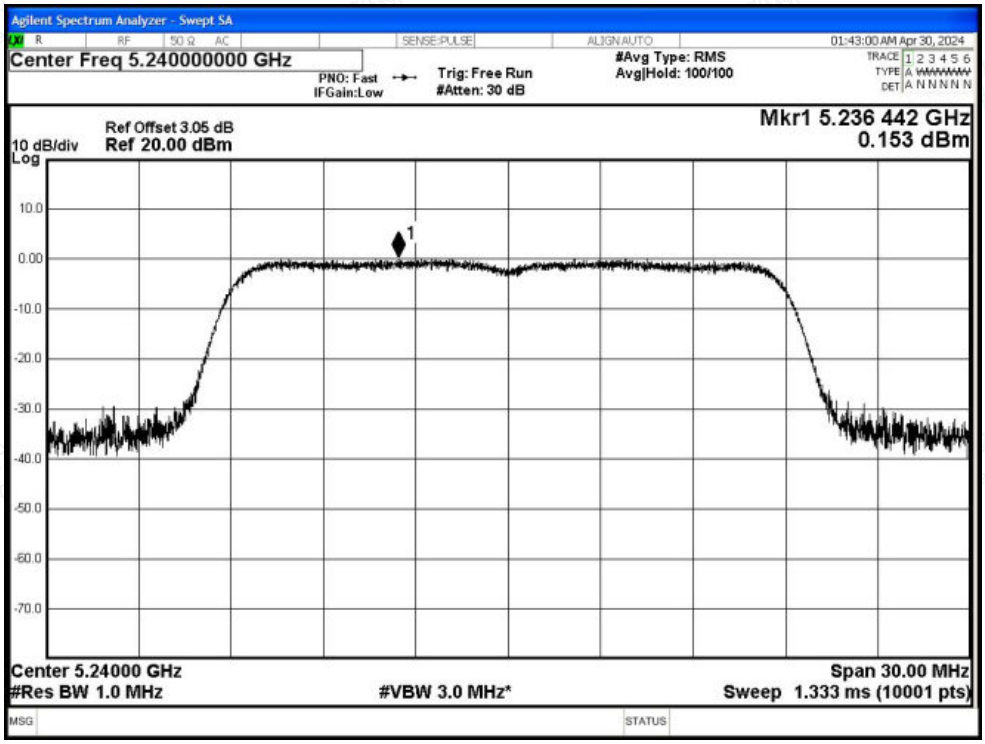
PSD NVNT ax20 5180MHz Ant1



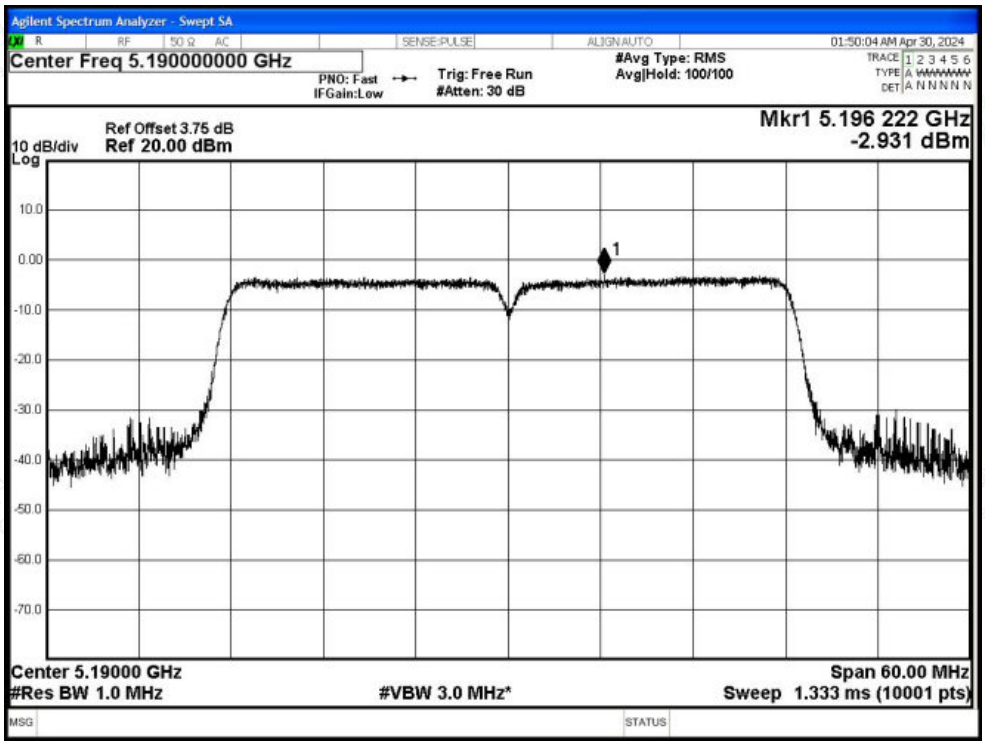
PSD NVNT ax20 5200MHz Ant1



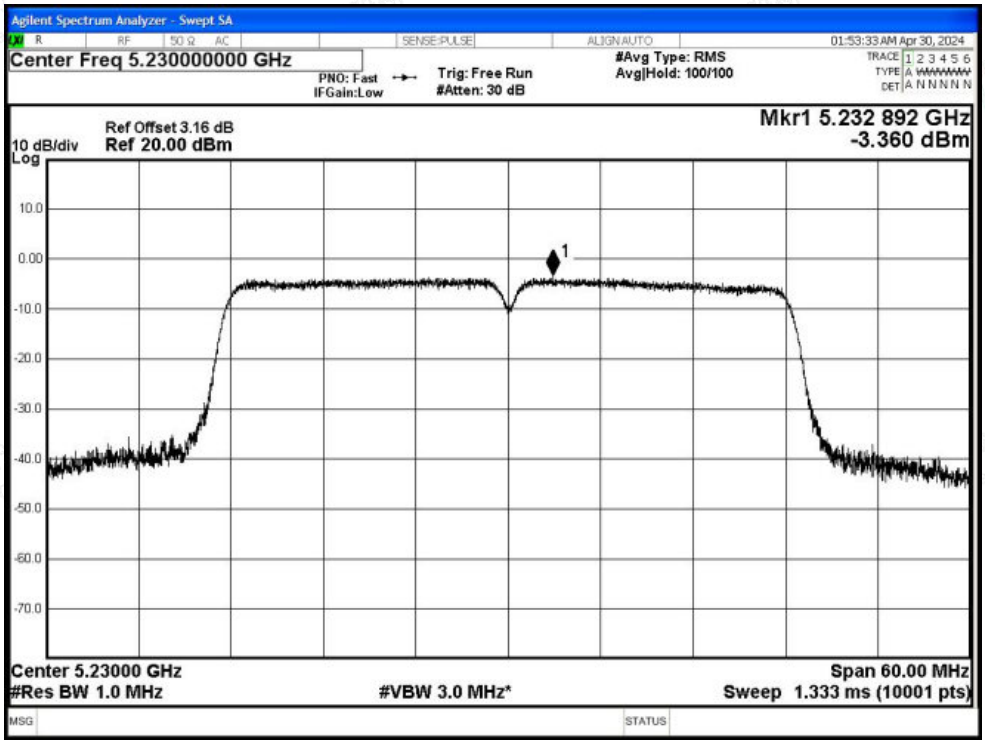
PSD NVNT ax20 5240MHz Ant1



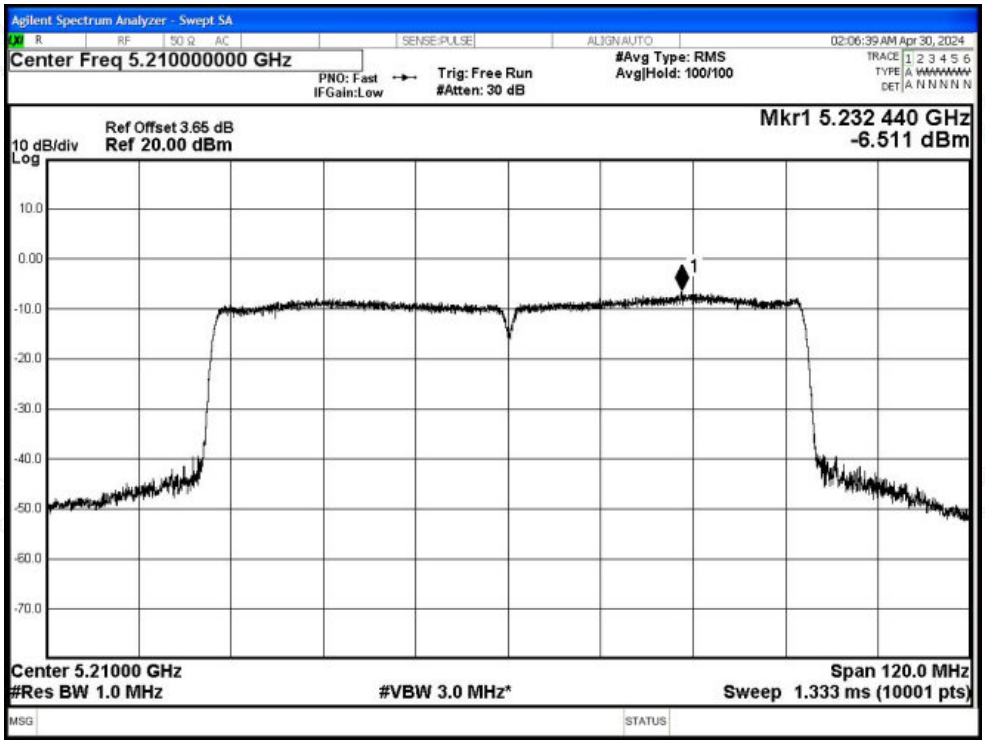
PSD NVNT ax40 5190MHz Ant1



PSD NVNT ax40 5230MHz Ant1



PSD NVNT ax80 5210MHz Ant1



D.4 Restrict Band

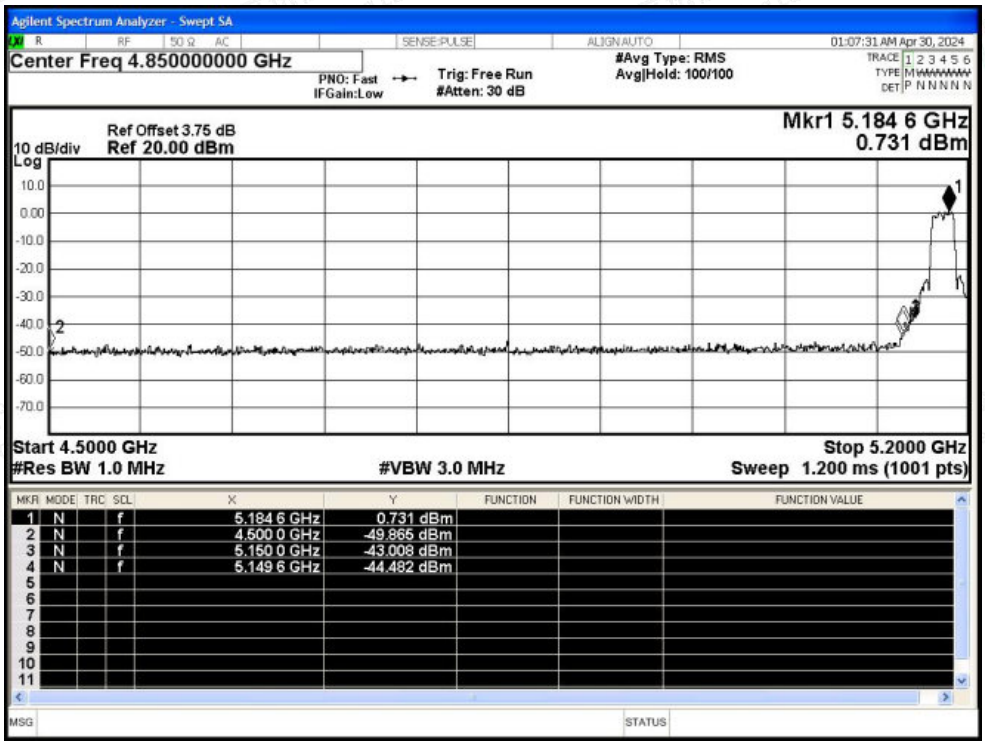
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-49.87	2	-	47.36	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-58.23	2	0.24	39.24	Average	54	Pass
NVNT	a	5180	Ant1	5149.6	-44.48	2	-	52.75	Peak	68.2	Pass
NVNT	a	5180	Ant1	5146.8	-54.91	2	0.24	42.56	Average	54	Pass
NVNT	a	5180	Ant1	5150	-43.01	2	-	54.22	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-55.13	2	0.24	42.34	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.34	2	-	47.89	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.8	2	0.24	39.67	Average	54	Pass
NVNT	a	5240	Ant1	5350.8	-46.42	2	-	50.81	Peak	68.2	Pass
NVNT	a	5240	Ant1	5374.8	-57.29	2	0.24	40.18	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.48	2	-	46.75	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-58.04	2	0.24	39.43	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-50.53	2	-	46.7	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.35	2	0.28	39.16	Average	54	Pass
NVNT	n20	5180	Ant1	5147.5	-43.31	2	-	53.92	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-54.33	2	0.28	43.18	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-43.56	2	-	53.67	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-54.5	2	0.28	43.01	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-50.92	2	-	46.31	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.96	2	0.28	39.55	Average	54	Pass
NVNT	n20	5240	Ant1	5426.16	-47.14	2	-	50.09	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5372.64	-57.15	2	0.28	40.36	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.24	2	-	46.99	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.5	2	0.28	40.01	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.61	2	-	46.62	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-58.53	2	0.24	38.94	Average	54	Pass
NVNT	n40	5190	Ant1	5147.51	-39.14	2	-	58.09	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-53.12	2	0.24	44.35	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-43.05	2	-	54.18	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-53.12	2	0.24	44.35	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.37	2	-	48.86	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.83	2	0.24	39.64	Average	54	Pass
NVNT	n40	5230	Ant1	5383.32	-46.86	2	-	50.37	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5373.06	-57.28	2	0.24	40.19	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.52	2	-	47.71	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.06	2	0.24	39.41	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-48.45	2	-	48.78	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.51	2	0.28	39	Average	54	Pass

NVNT	ac20	5180	Ant1	5149.6	-33.8	2	-	63.43	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-53.06	2	0.28	44.45	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-38.42	2	-	58.81	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-52.25	2	0.28	45.26	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-50.13	2	-	47.1	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.29	2	0.28	40.22	Average	54	Pass
NVNT	ac20	5240	Ant1	5376.24	-47.25	2	-	49.98	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5352.48	-56.8	2	0.28	40.71	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.14	2	-	47.09	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-58.46	2	0.28	39.05	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.96	2	-	47.27	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-57.98	2	0.12	39.37	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-39.84	2	-	57.39	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-53.58	2	0.12	43.77	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-39.84	2	-	57.39	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-53.58	2	0.12	43.77	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-48.39	2	-	48.84	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-58.06	2	0.12	39.29	Average	54	Pass
NVNT	ac40	5230	Ant1	5387.91	-46.98	2	-	50.25	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5363.61	-57.05	2	0.12	40.3	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.95	2	-	47.28	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.06	2	0.12	39.29	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-46.55	2	-	50.68	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.45	2	0.25	41.03	Average	54	Pass
NVNT	ac80	5210	Ant1	5350.11	-46.55	2	-	50.68	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5361.66	-56	2	0.25	41.48	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-50.14	2	-	47.09	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-58.04	2	0.25	39.44	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.9	2	-	47.33	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-57.86	2	0.25	39.62	Average	54	Pass
NVNT	ac80	5210	Ant1	5125.68	-44.97	2	-	52.26	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5146.22	-54.1	2	0.25	43.38	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-47.14	2	-	50.09	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-54.88	2	0.25	42.6	Average	54	Pass
NVNT	ax20	5180	Ant1	4500	-50.15	2	-	47.08	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	4500	-58.64	2	0.28	38.87	Average	54	Pass
NVNT	ax20	5180	Ant1	5149.6	-40.98	2	-	56.25	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	5148.9	-53.63	2	0.28	43.88	Average	54	Pass
NVNT	ax20	5180	Ant1	5150	-42.5	2	-	54.73	Peak	68.2	Pass
NVNT	ax20	5180	Ant1	5150	-52.64	2	0.28	44.87	Average	54	Pass
NVNT	ax20	5240	Ant1	5350	-49.48	2	-	47.75	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5350	-56.87	2	0.28	40.64	Average	54	Pass
NVNT	ax20	5240	Ant1	5412	-46.35	2	-	50.88	Peak	68.2	Pass

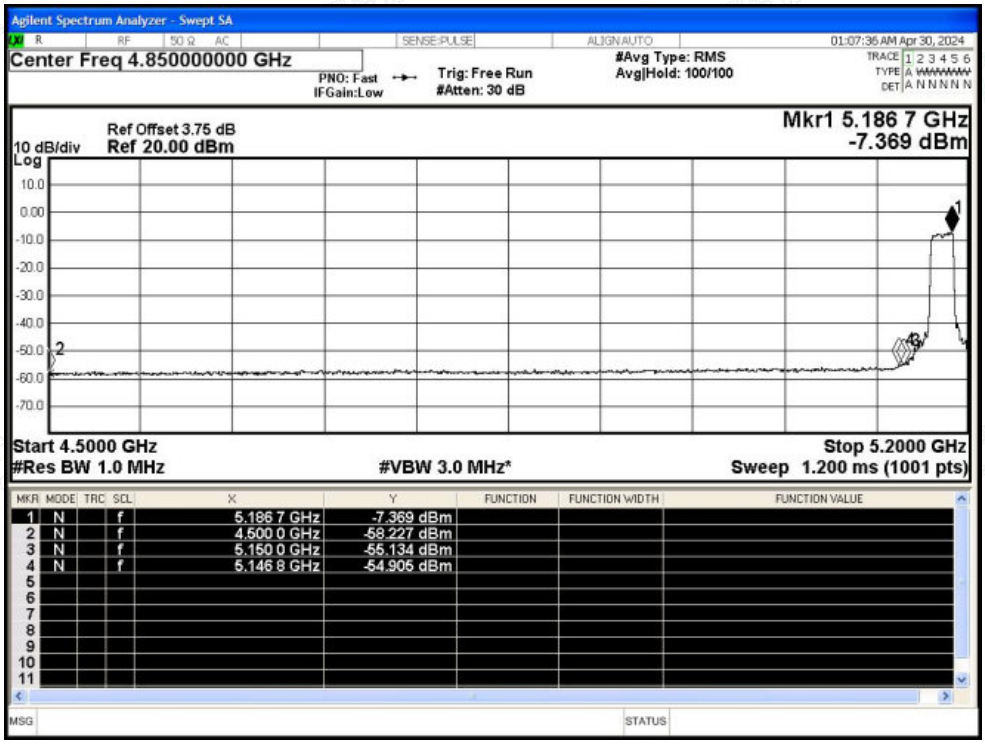
NVNT	ax20	5240	Ant1	5350.8	-56.68	2	0.28	40.83	Average	54	Pass
NVNT	ax20	5240	Ant1	5460	-50.6	2	-	46.63	Peak	68.2	Pass
NVNT	ax20	5240	Ant1	5460	-58.11	2	0.28	39.4	Average	54	Pass
NVNT	ax40	5190	Ant1	4500	-49.62	2	-	47.61	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	4500	-58.49	2	0.53	39.27	Average	54	Pass
NVNT	ax40	5190	Ant1	5149.7	-42.81	2	-	54.42	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	5149.7	-54.83	2	0.53	42.93	Average	54	Pass
NVNT	ax40	5190	Ant1	5150	-42.81	2	-	54.42	Peak	68.2	Pass
NVNT	ax40	5190	Ant1	5150	-54.83	2	0.53	42.93	Average	54	Pass
NVNT	ax40	5230	Ant1	5350	-49.79	2	-	47.44	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5350	-57.27	2	0.12	40.08	Average	54	Pass
NVNT	ax40	5230	Ant1	5380.35	-47.43	2	-	49.8	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5350.92	-57.01	2	0.12	40.34	Average	54	Pass
NVNT	ax40	5230	Ant1	5460	-49.13	2	-	48.1	Peak	68.2	Pass
NVNT	ax40	5230	Ant1	5460	-57.65	2	0.12	39.7	Average	54	Pass
NVNT	ax80	5210	Ant1	5350	-48.22	2	-	49.01	Peak	68.2	Pass
NVNT	ax80	5210	Ant1	5350	-56.6	2	0.25	40.88	Average	54	Pass
NVNT	ax80	5210	Ant1	5421.39	-45.61	2	-	51.62	Peak	68.2	Pass
NVNT	ax80	5210	Ant1	5350.77	-56.32	2	0.25	41.16	Average	54	Pass
NVNT	ax80	5210	Ant1	5460	-49.45	2	-	47.78	Peak	68.2	Pass
NVNT	ax80	5210	Ant1	5460	-57.52	2	0.25	39.96	Average	54	Pass
NVNT	ax80	5210	Ant1	4500	-51.12	2	-	46.11	Peak	68.2	Pass
NVNT	ax80	5210	Ant1	4500	-58.43	2	0.25	39.05	Average	54	Pass
NVNT	ax80	5210	Ant1	5146.22	-41.79	2	-	55.44	Peak	68.2	Pass
NVNT	ax80	5210	Ant1	5143.85	-54.3	2	0.25	43.18	Average	54	Pass
NVNT	ax80	5210	Ant1	5150	-44.85	2	-	52.38	Peak	68.2	Pass
NVNT	ax80	5210	Ant1	5150	-54.41	2	0.25	43.07	Average	54	Pass

Test Graphs

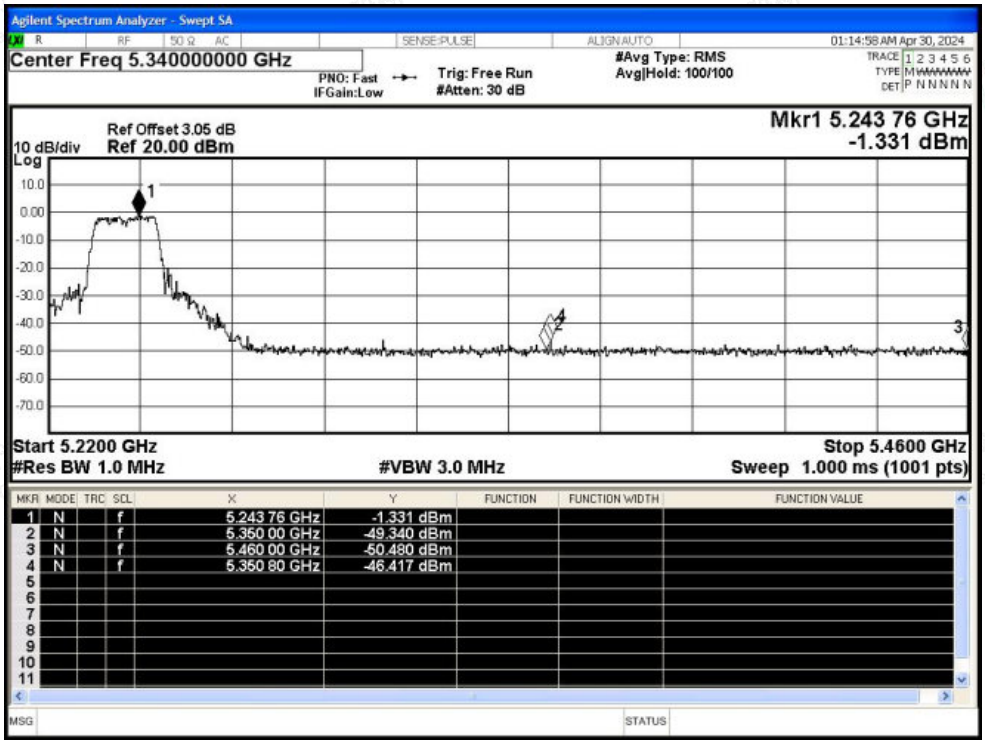
Restrict Band NVNT a 5180MHz Ant1 Peak



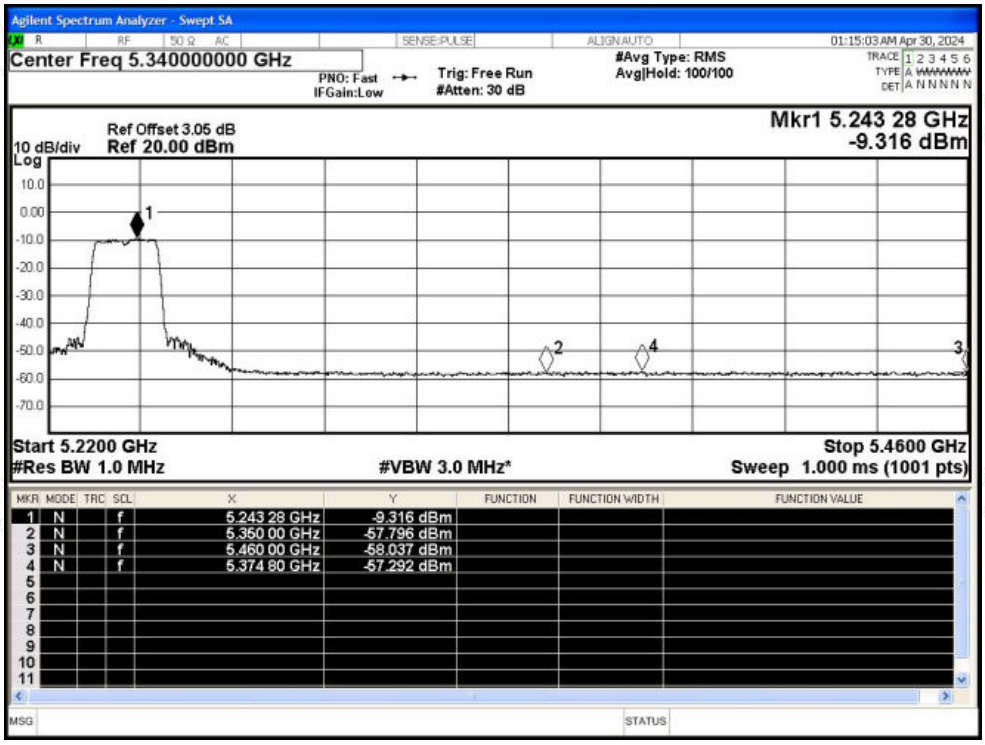
Restrict Band NVNT a 5180MHz Ant1 Average



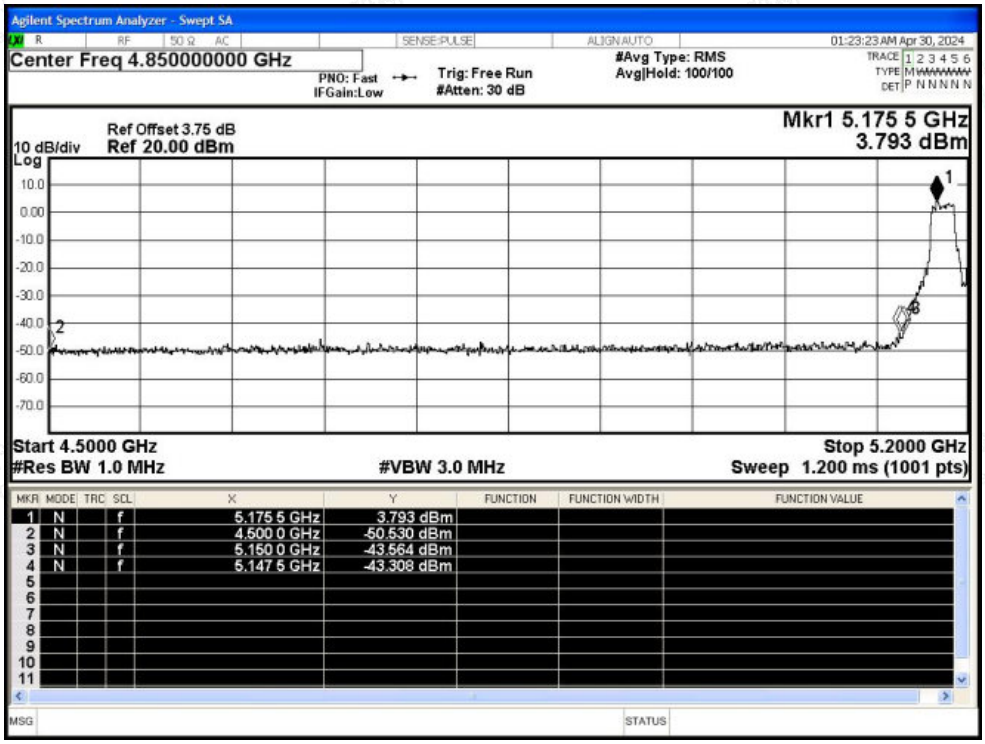
Restrict Band NVNT a 5240MHz Ant1 Peak



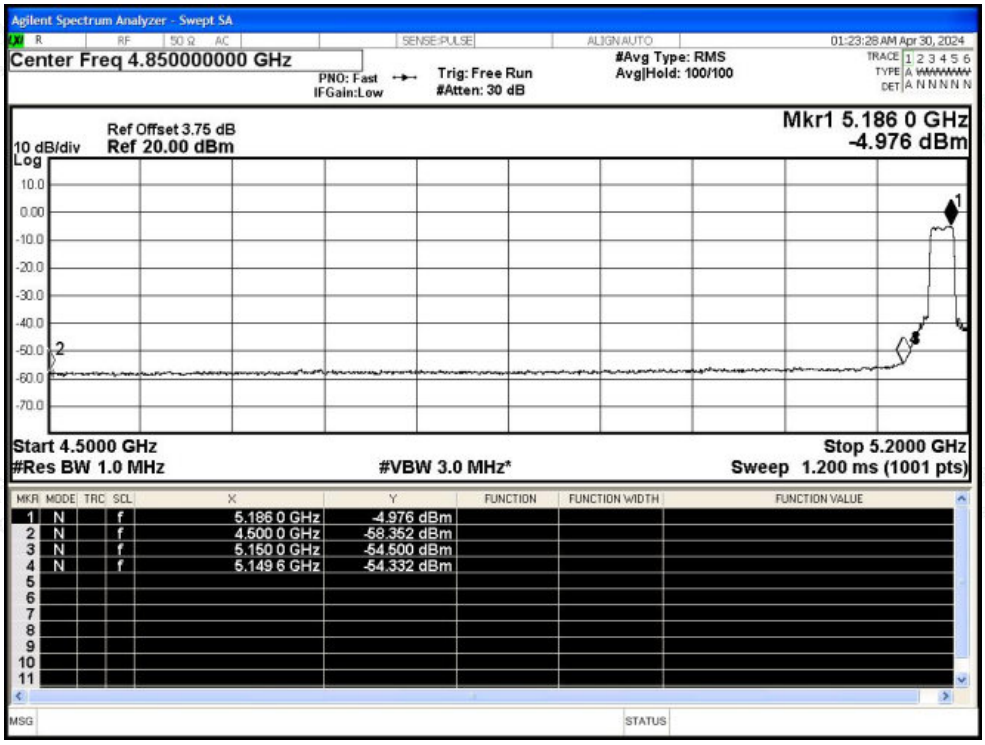
Restrict Band NVNT a 5240MHz Ant1 Average



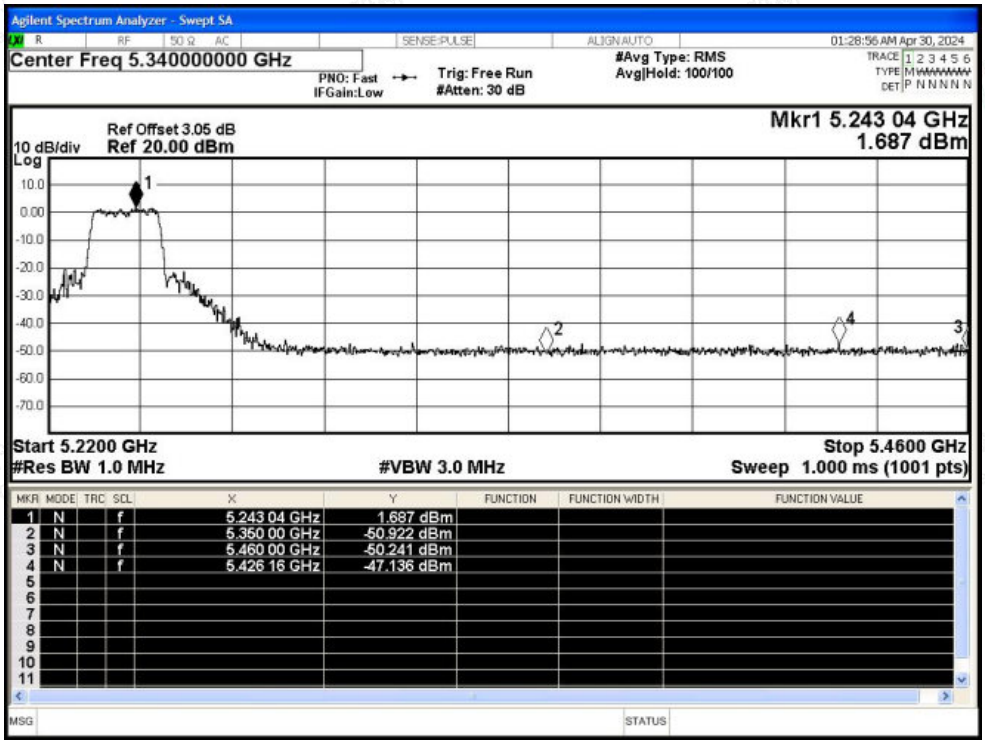
Restrict Band NVNT n20 5180MHz Ant1 Peak



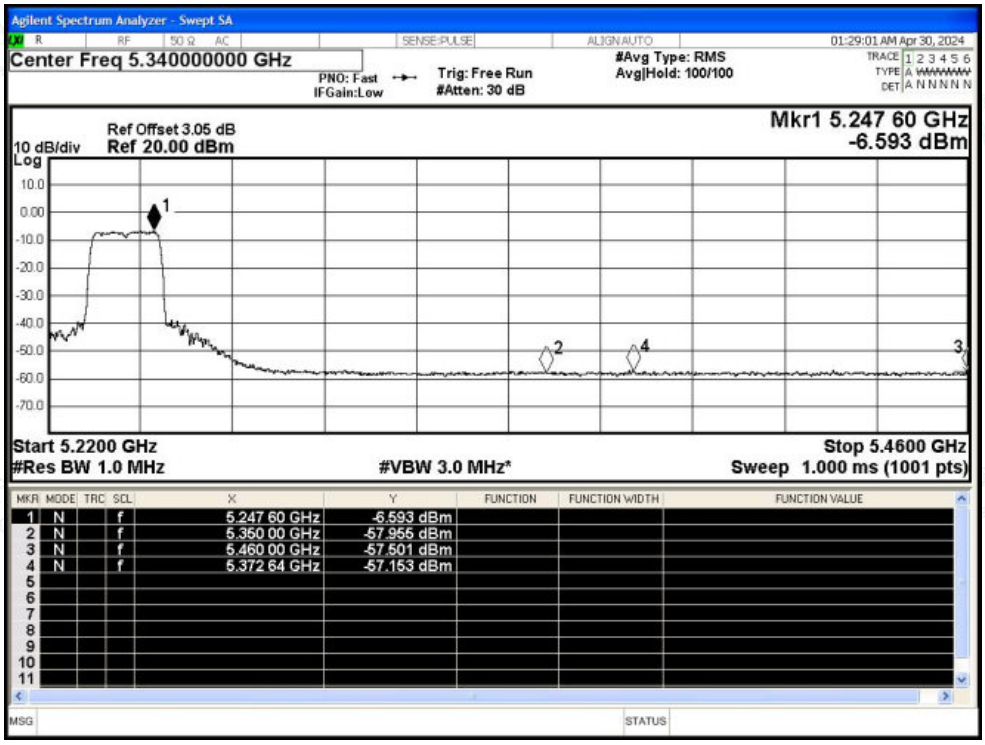
Restrict Band NVNT n20 5180MHz Ant1 Average



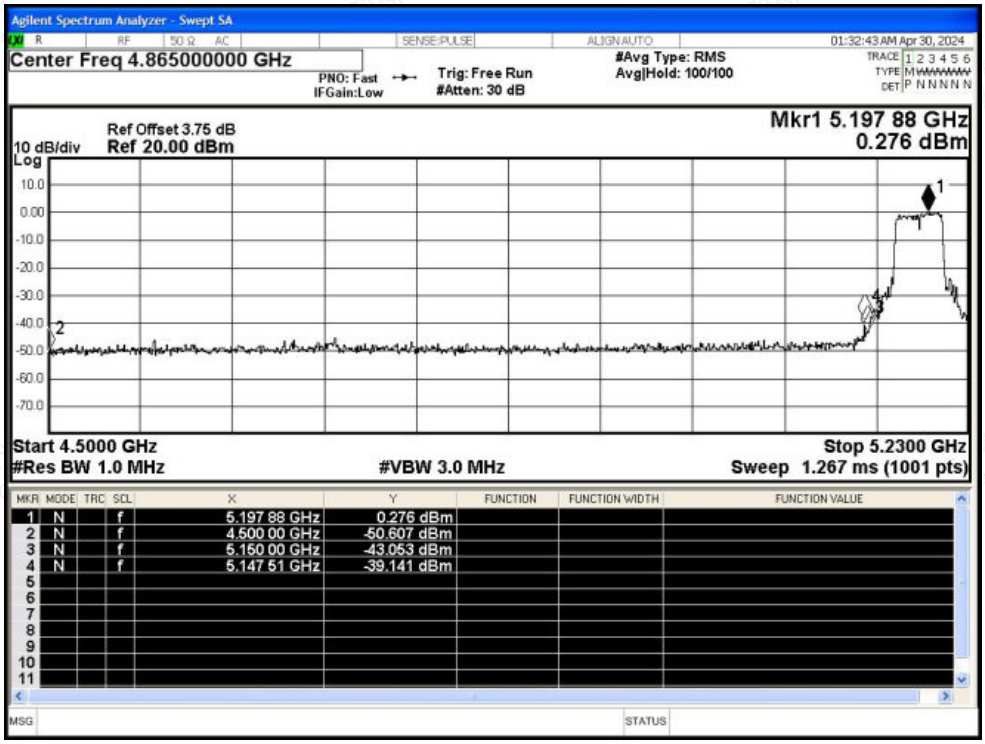
Restrict Band NVNT n20 5240MHz Ant1 Peak



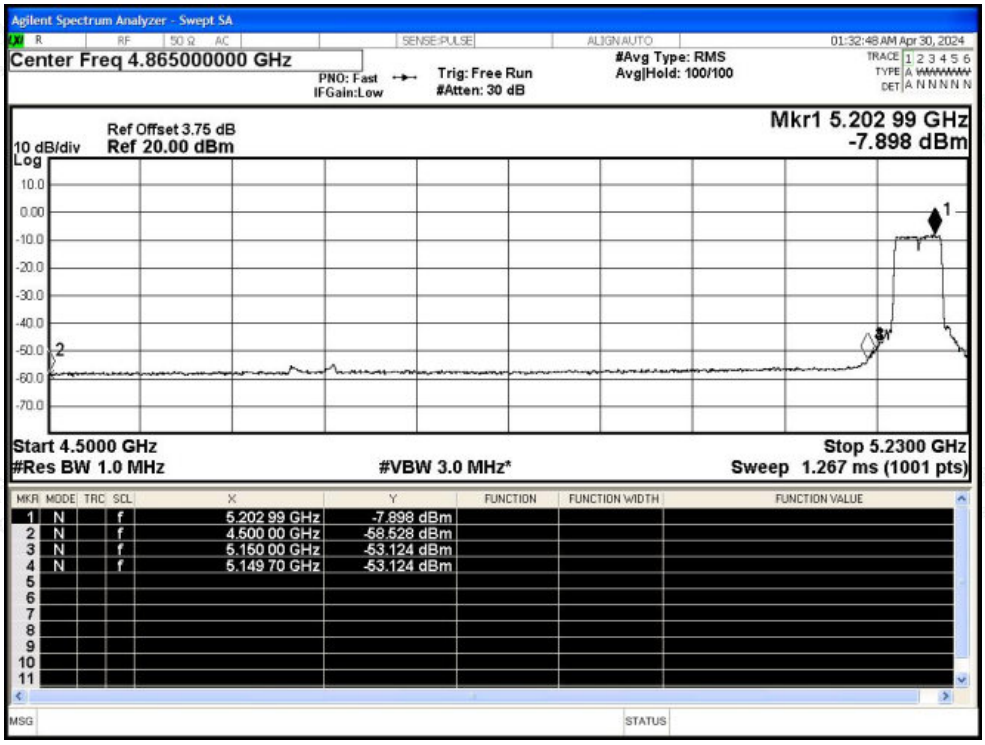
Restrict Band NVNT n20 5240MHz Ant1 Average



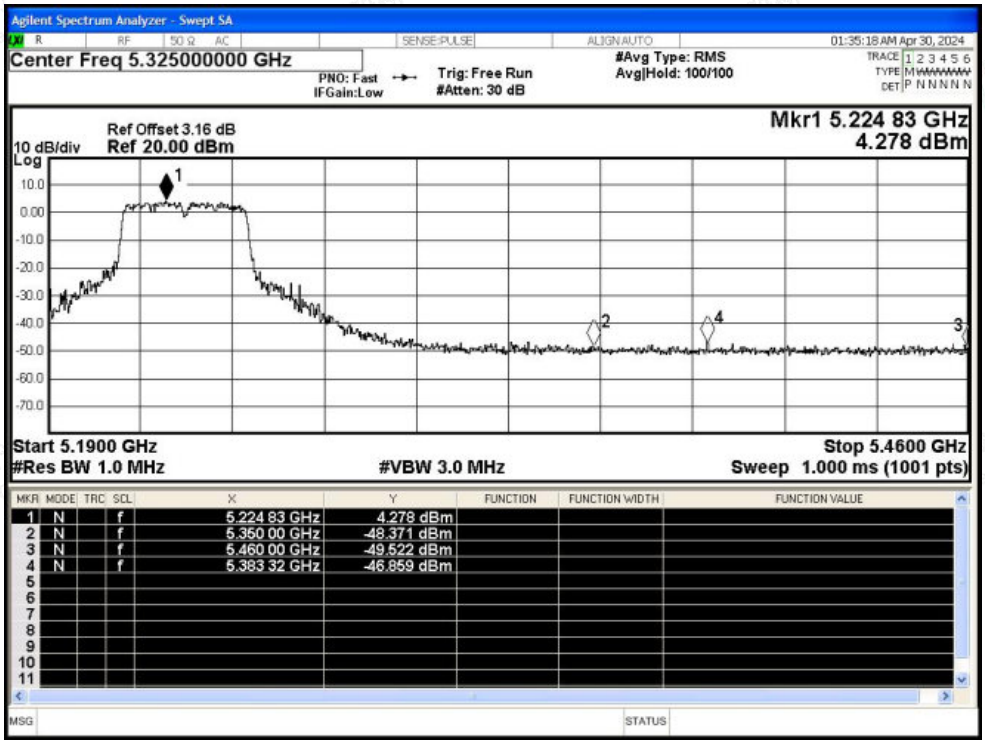
Restrict Band NVNT n40 5190MHz Ant1 Peak



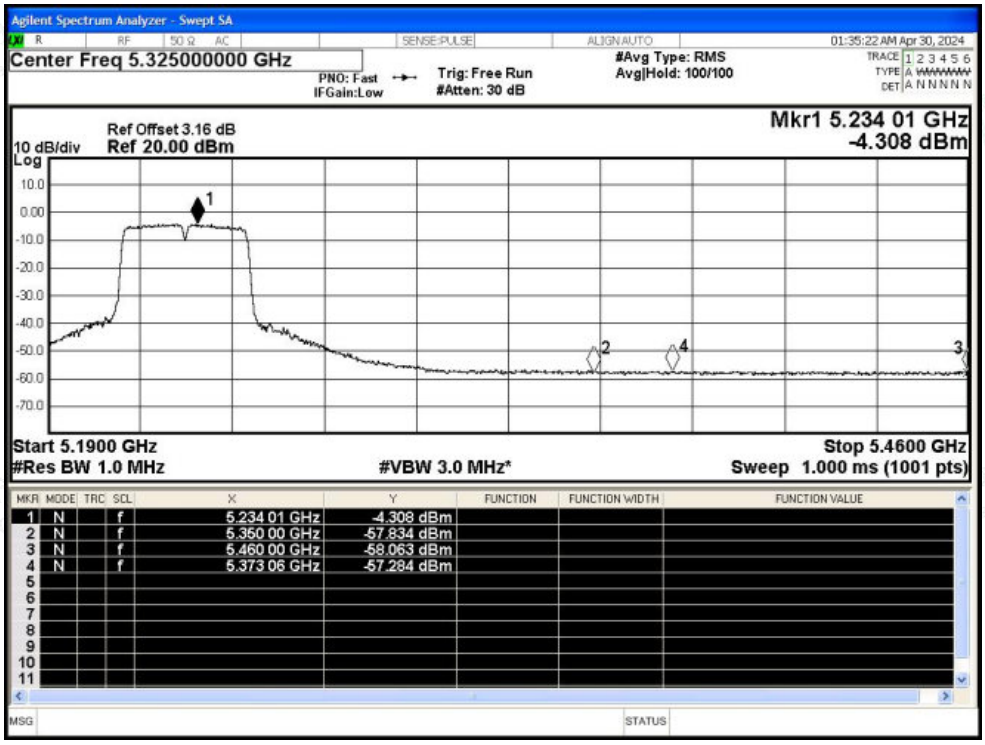
Restrict Band NVNT n40 5190MHz Ant1 Average



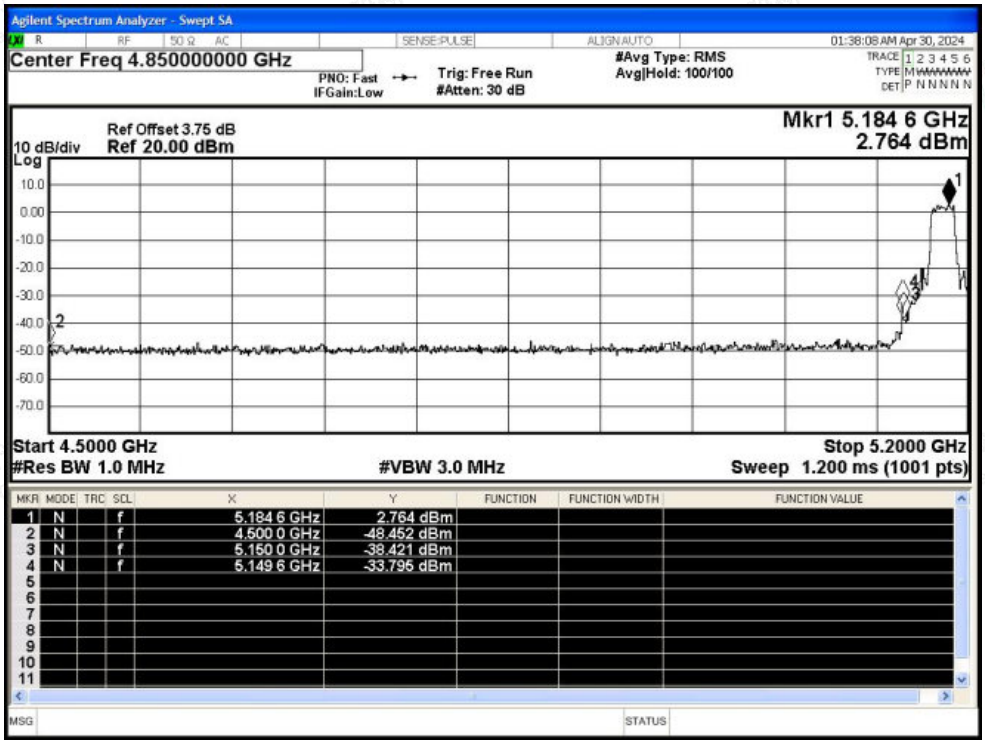
Restrict Band NVNT n40 5230MHz Ant1 Peak



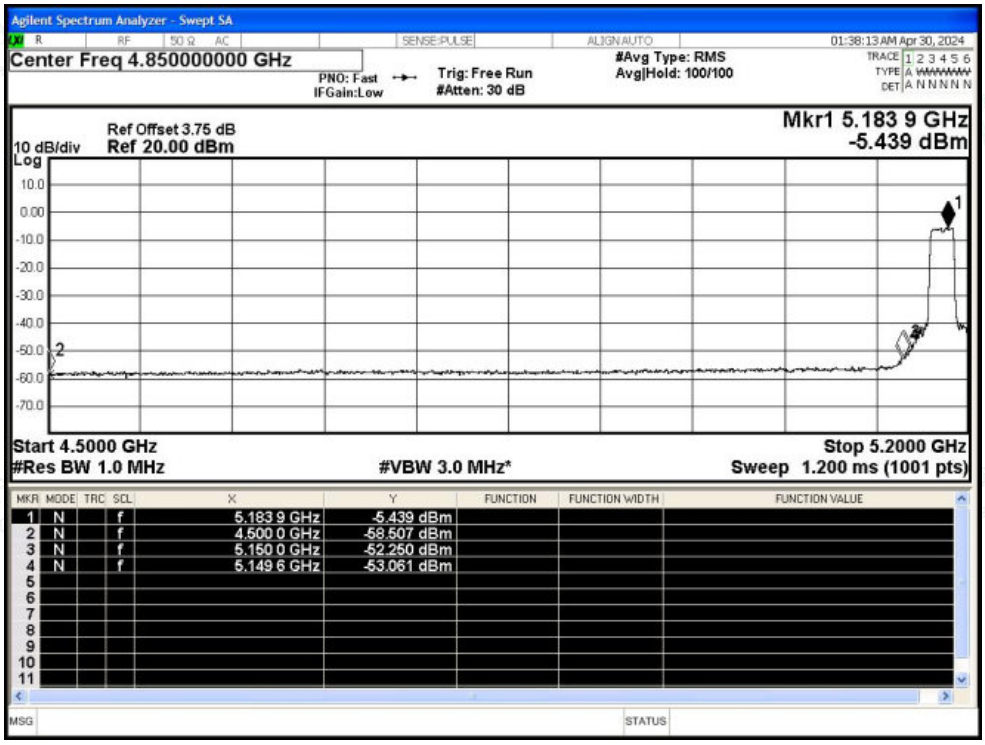
Restrict Band NVNT n40 5230MHz Ant1 Average



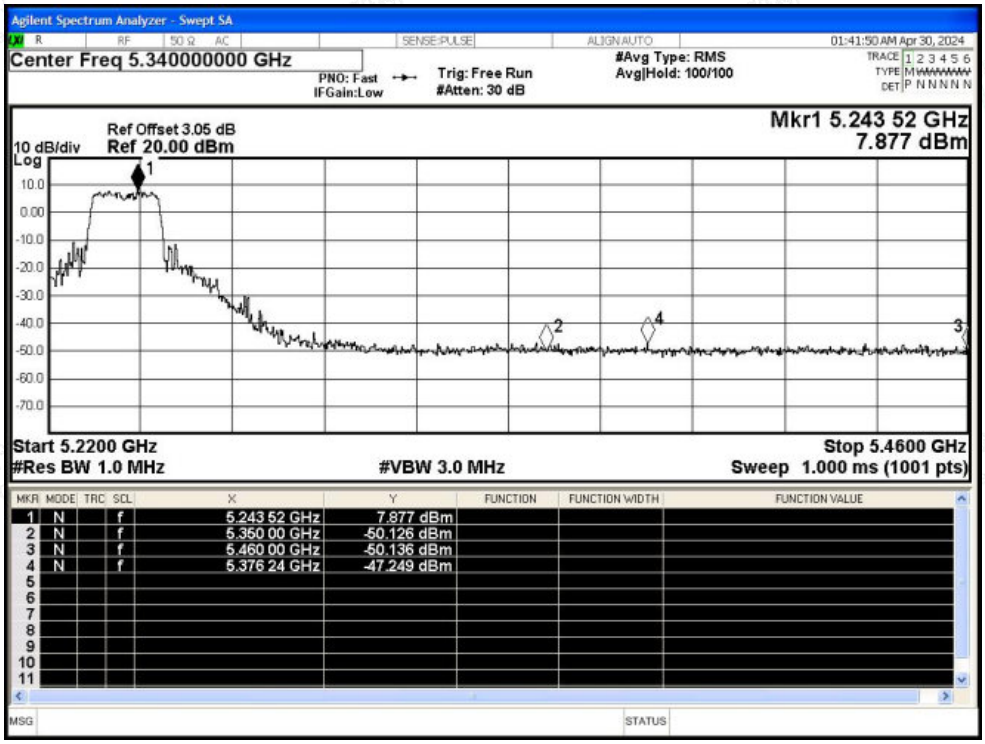
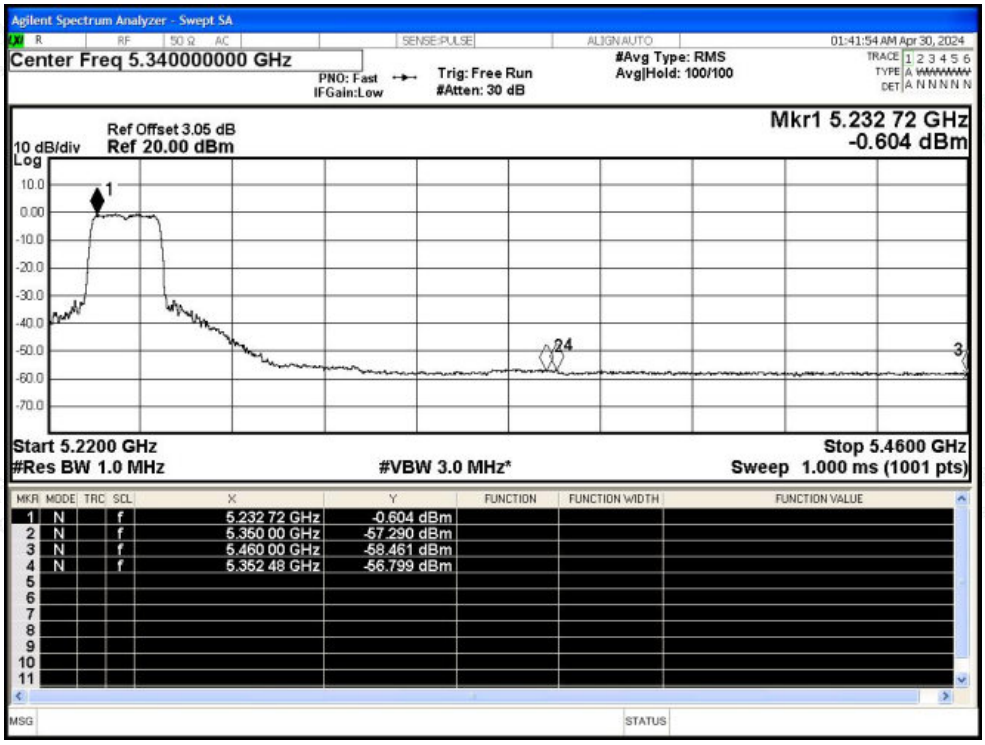
Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average



Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average