



Appendix B for 5GWIFI Test Data



Product Name: Notebook

Test Model: A14



Environmental Conditions



Temperature:	23.8°C
Relative Humidity:	52%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu





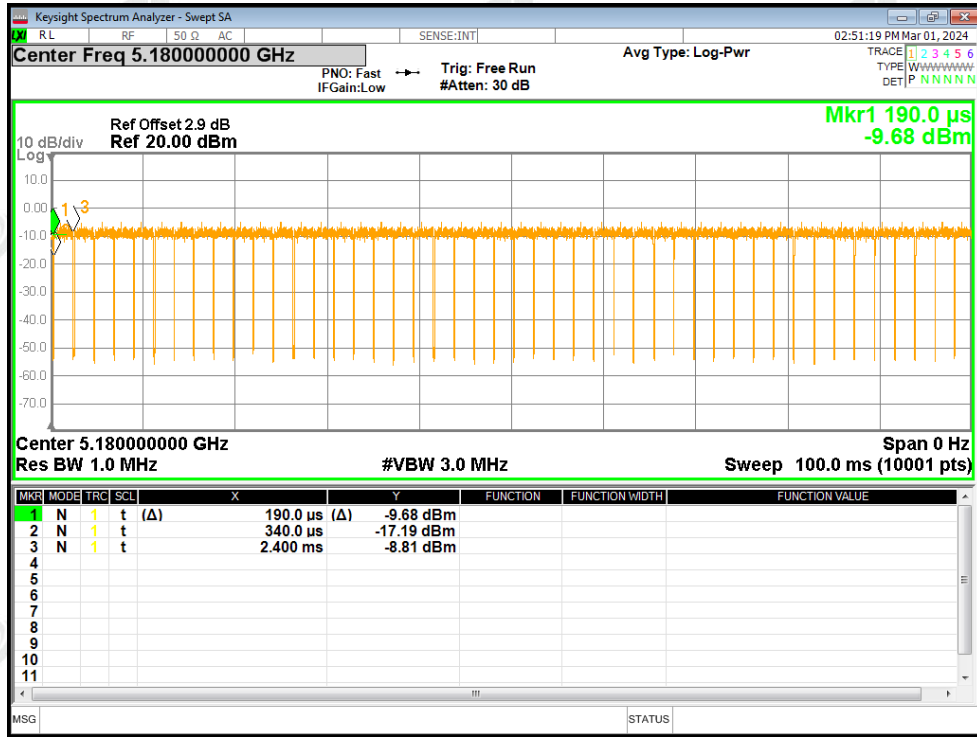
B1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5180	Ant1	93.21	0.31
NVNT	a	5200	Ant1	94.93	0.23
NVNT	a	5240	Ant1	92.79	0.32
NVNT	a	5180	Ant2	92.38	0.34
NVNT	a	5200	Ant2	97.18	0.12
NVNT	a	5240	Ant2	98.1	0
NVNT	n20	5180	Ant1	96	0.18
NVNT	n20	5200	Ant1	95.05	0.22
NVNT	n20	5240	Ant1	93.66	0.28
NVNT	n20	5180	Ant2	96.97	0.13
NVNT	n20	5200	Ant2	97.46	0.11
NVNT	n20	5240	Ant2	95.52	0.2
NVNT	n40	5190	Ant1	86.92	0.61
NVNT	n40	5230	Ant1	87.85	0.56
NVNT	n40	5190	Ant2	93.88	0.27
NVNT	n40	5230	Ant2	93.65	0.28
NVNT	ac20	5180	Ant1	96.02	0.18
NVNT	ac20	5200	Ant1	91.9	0.37
NVNT	ac20	5240	Ant1	91.9	0.37
NVNT	ac20	5180	Ant2	97.47	0.11
NVNT	ac20	5200	Ant2	94.15	0.26
NVNT	ac20	5240	Ant2	96.98	0.13
NVNT	ac40	5190	Ant1	86.92	0.61
NVNT	ac40	5230	Ant1	92.16	0.35
NVNT	ac40	5190	Ant2	83.93	0.76
NVNT	ac40	5230	Ant2	86.24	0.64
NVNT	ac80	5210	Ant1	78.18	1.07
NVNT	ac80	5210	Ant2	80.77	0.93

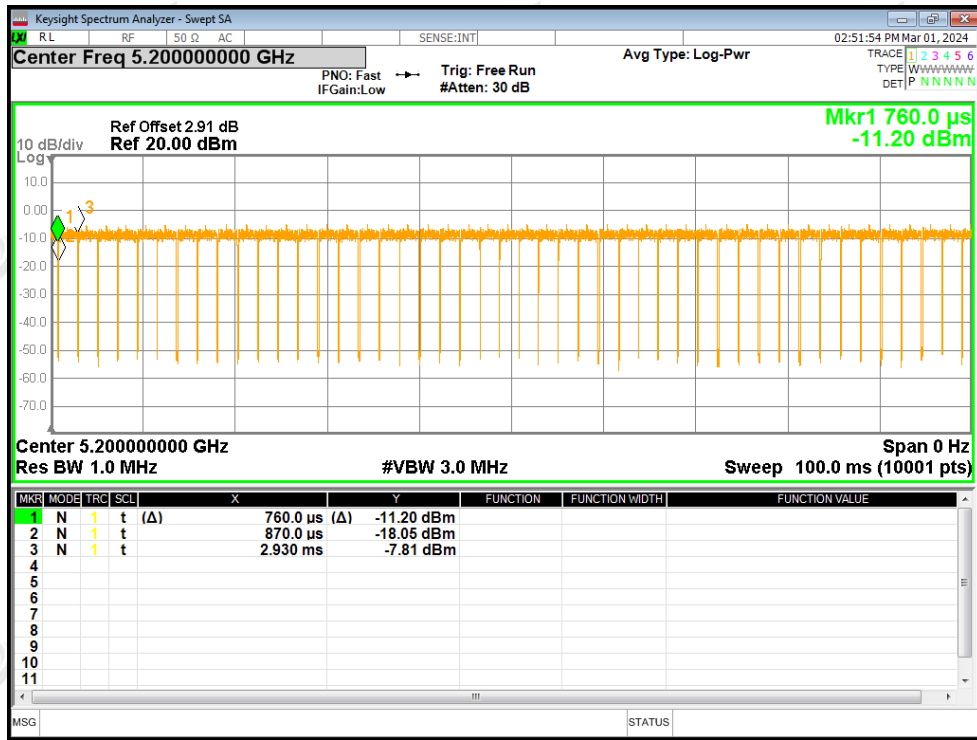


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

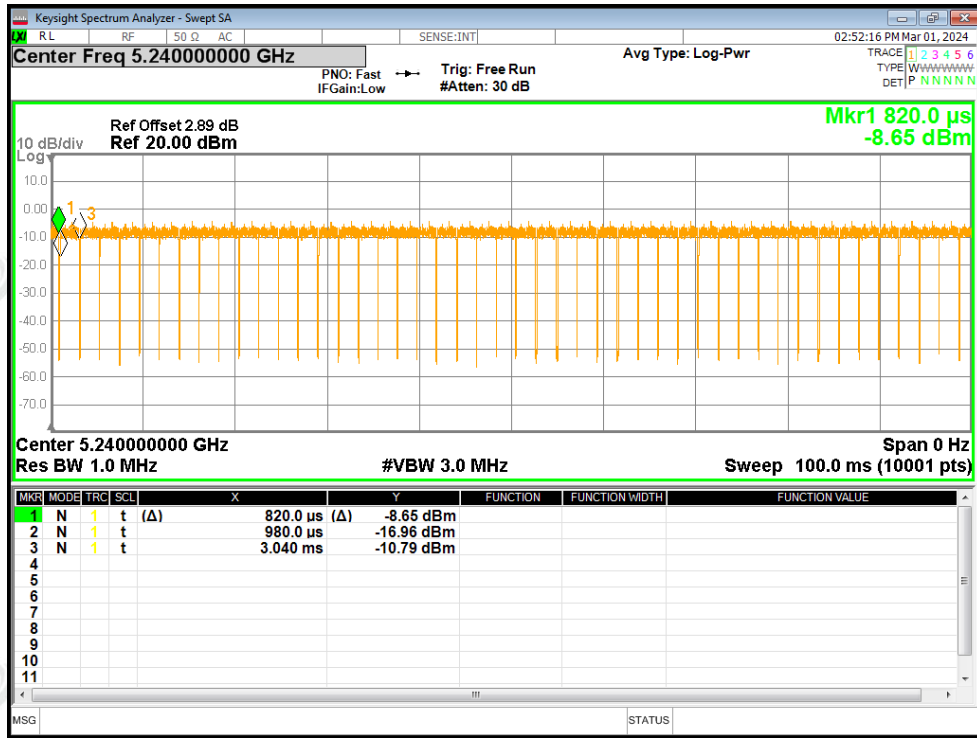


Duty Cycle NVNT a 5200MHz Ant1

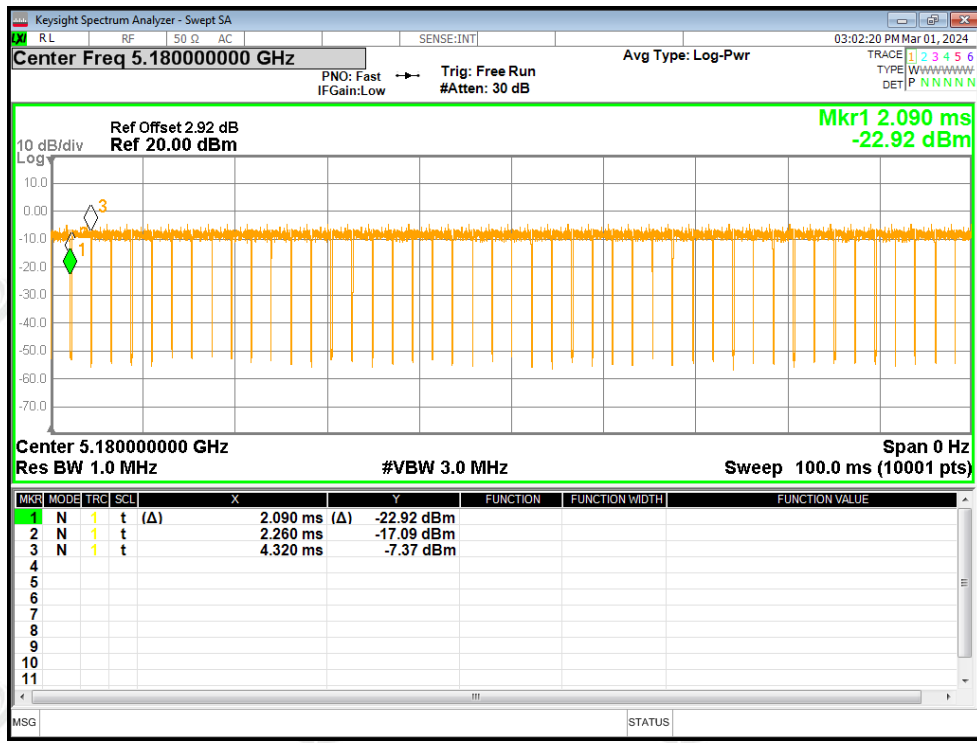




Duty Cycle NVNT a 5240MHz Ant1

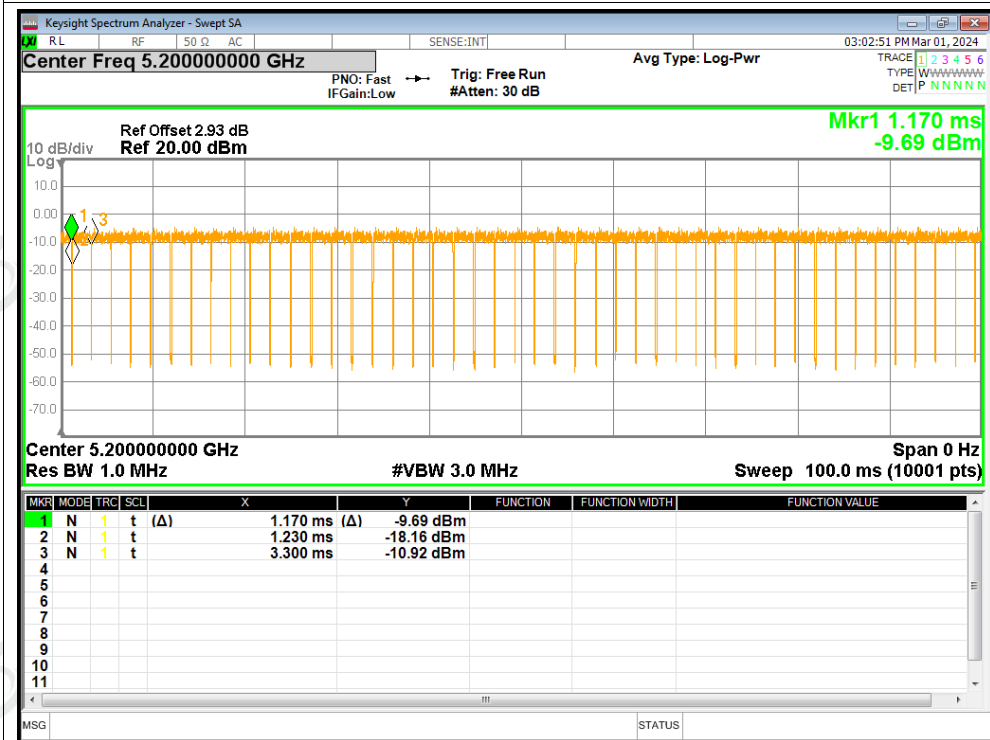


Duty Cycle NVNT a 5180MHz Ant2

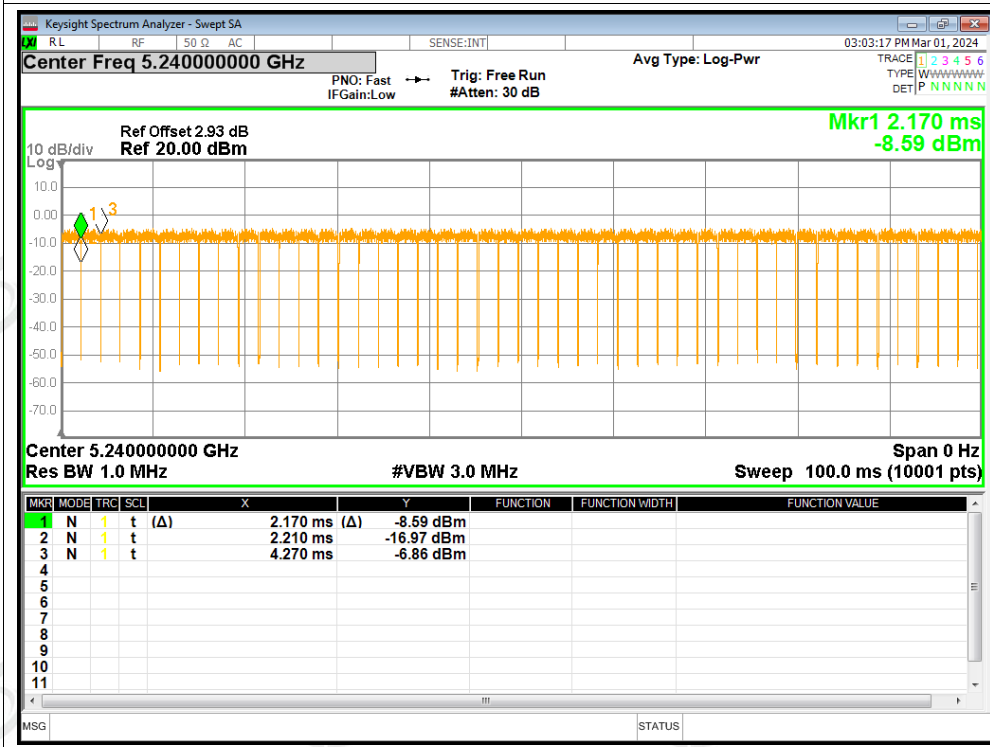




Duty Cycle NVNT a 5200MHz Ant2

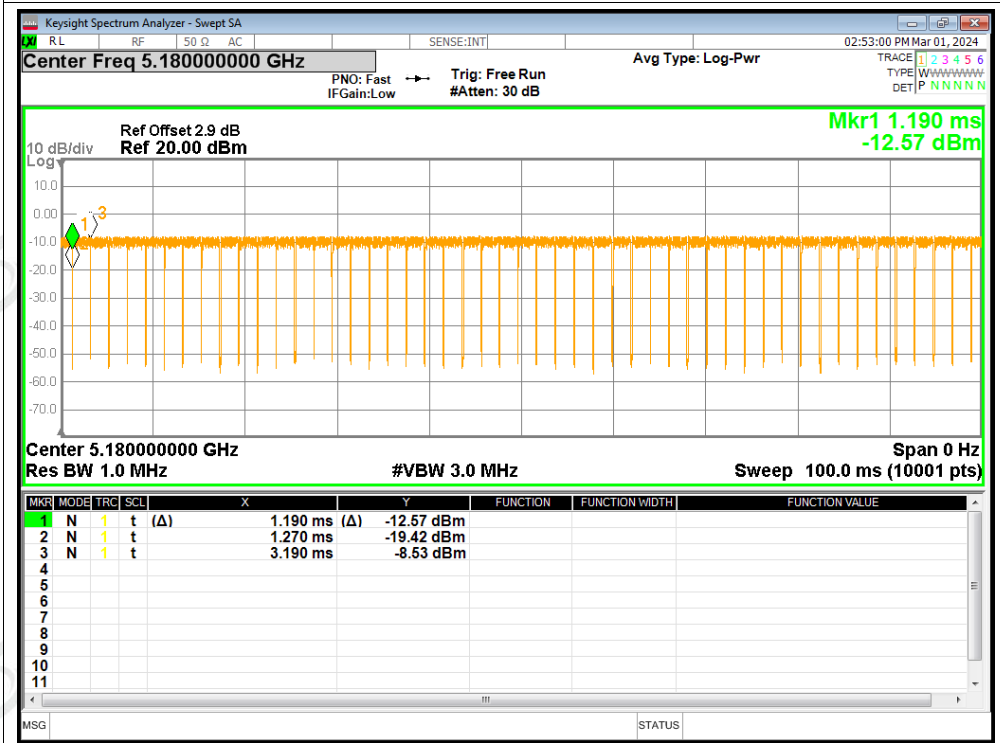


Duty Cycle NVNT a 5240MHz Ant2

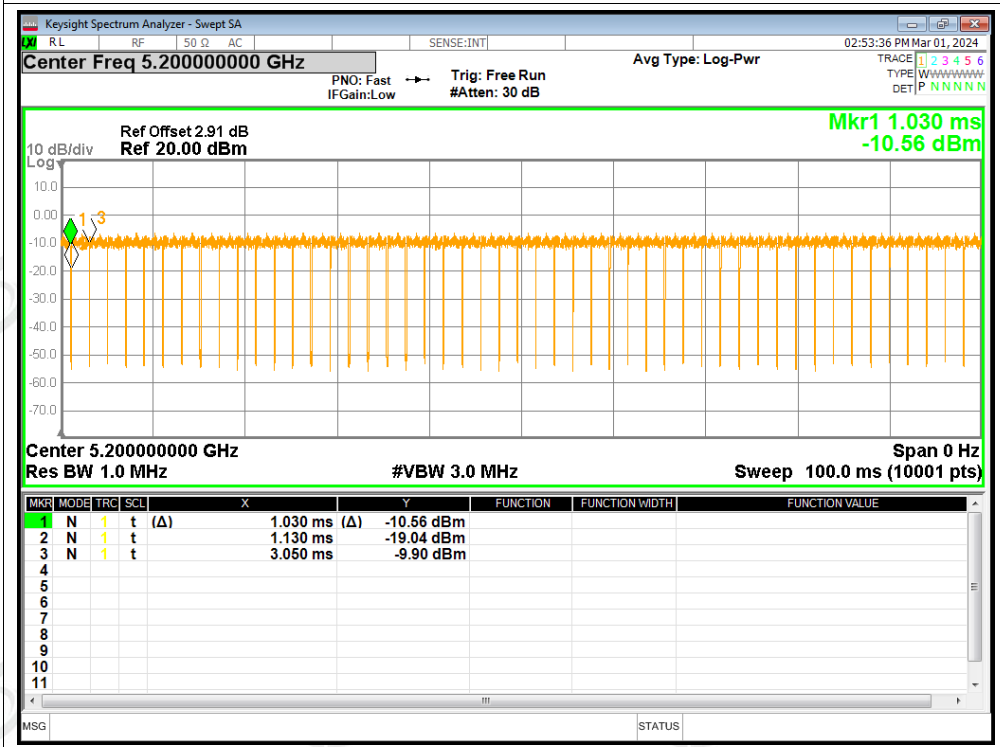




Duty Cycle NVNT n20 5180MHz Ant1

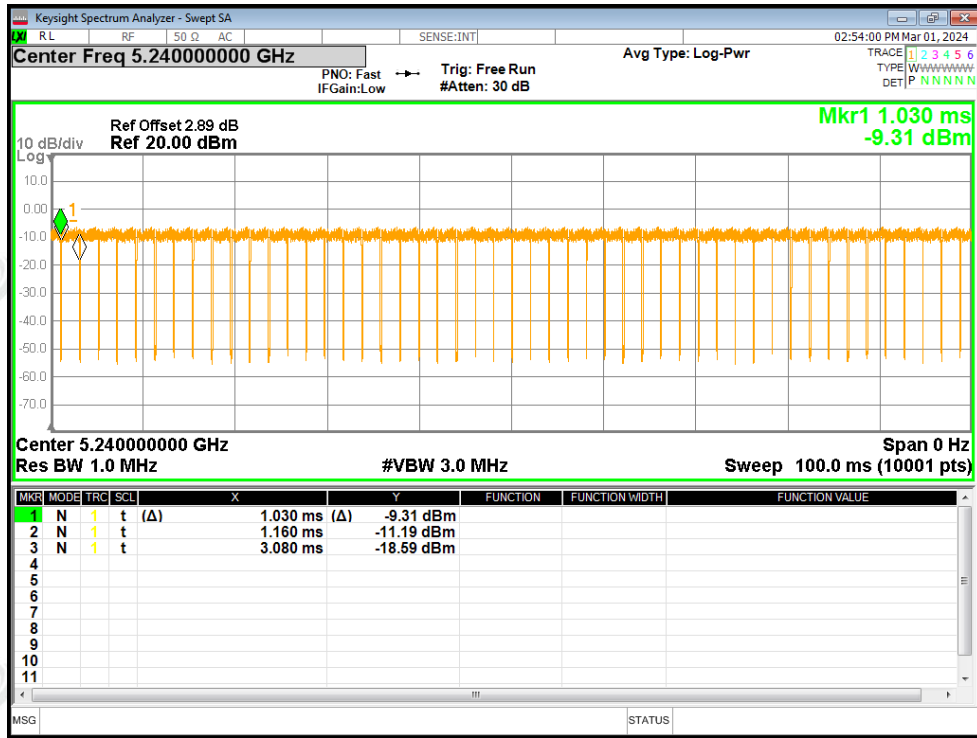


Duty Cycle NVNT n20 5200MHz Ant1

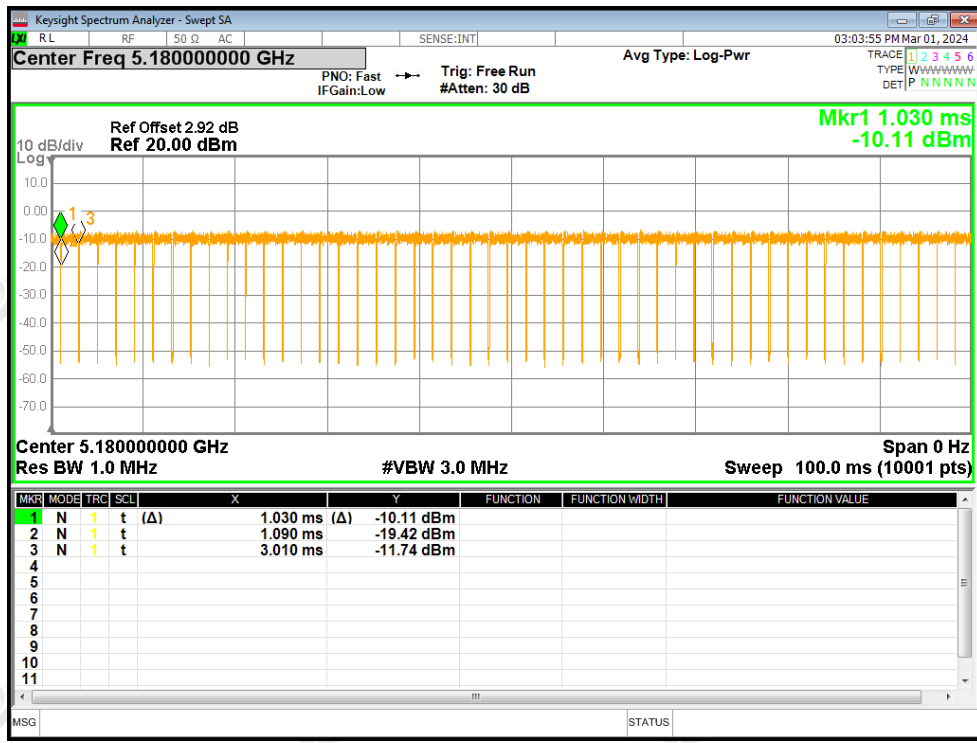




Duty Cycle NVNT n20 5240MHz Ant1

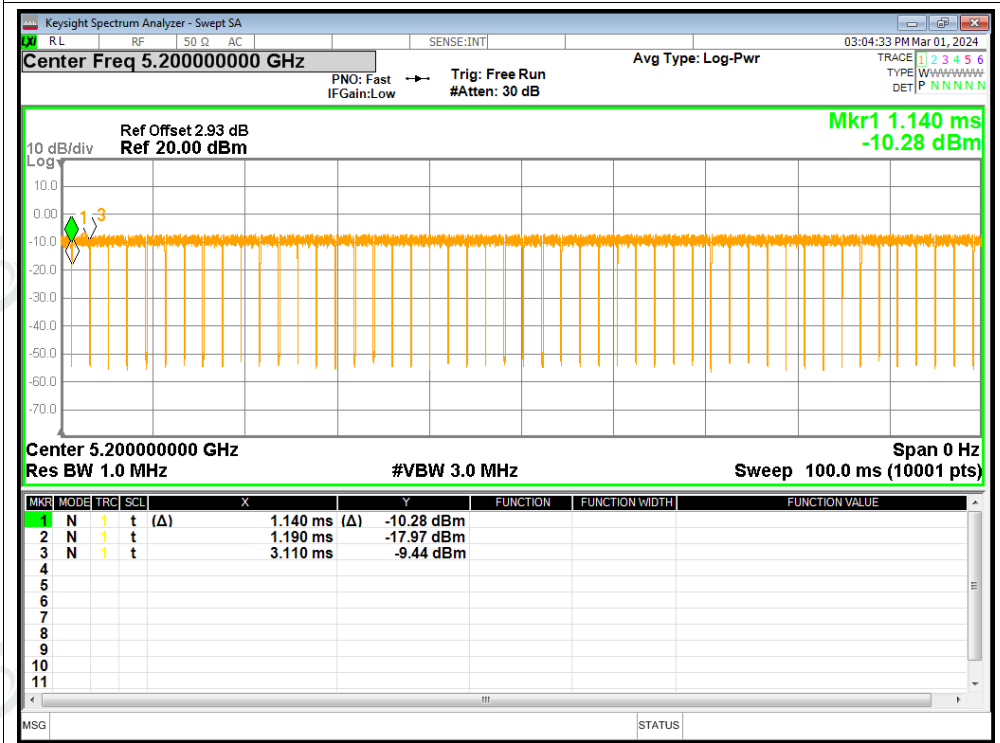


Duty Cycle NVNT n20 5180MHz Ant2

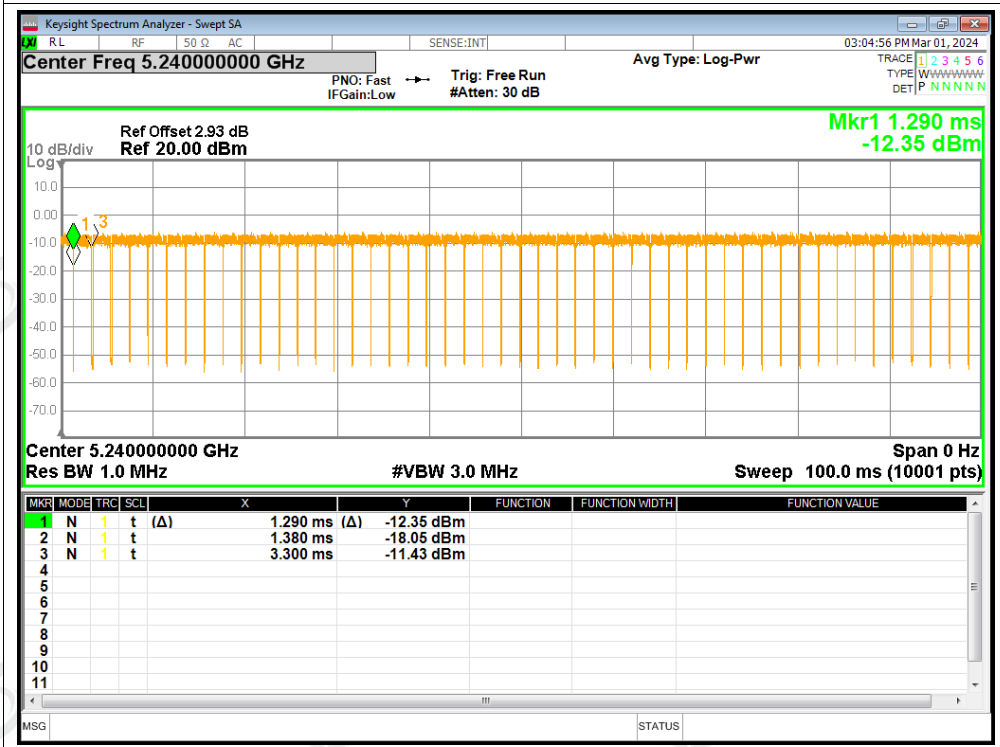




Duty Cycle NVNT n20 5200MHz Ant2

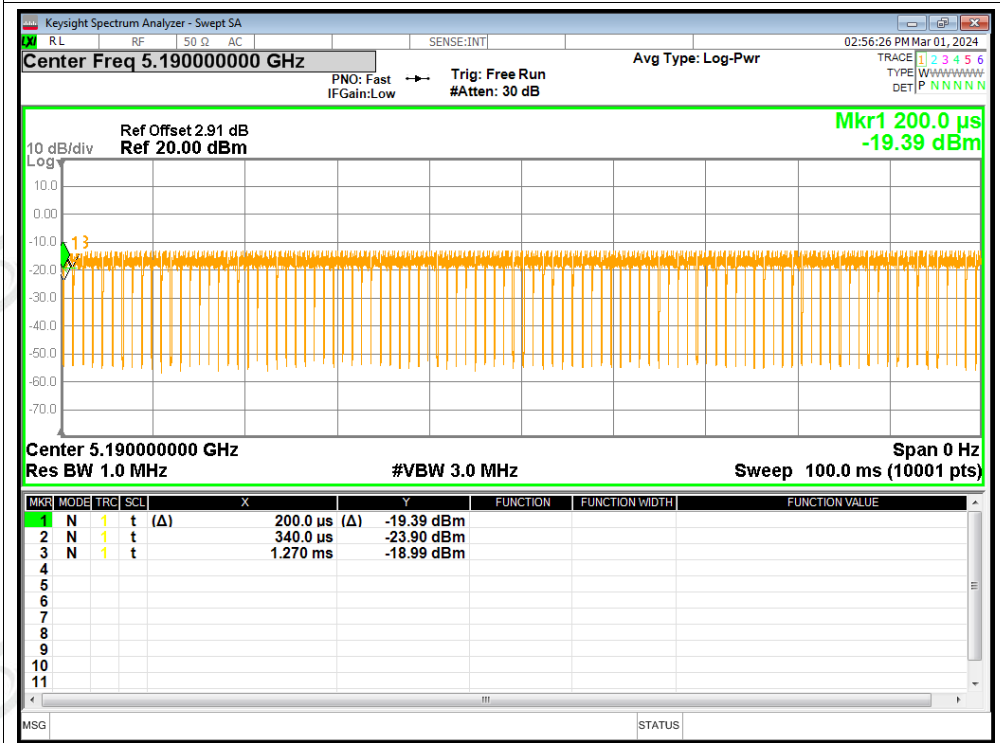


Duty Cycle NVNT n20 5240MHz Ant2

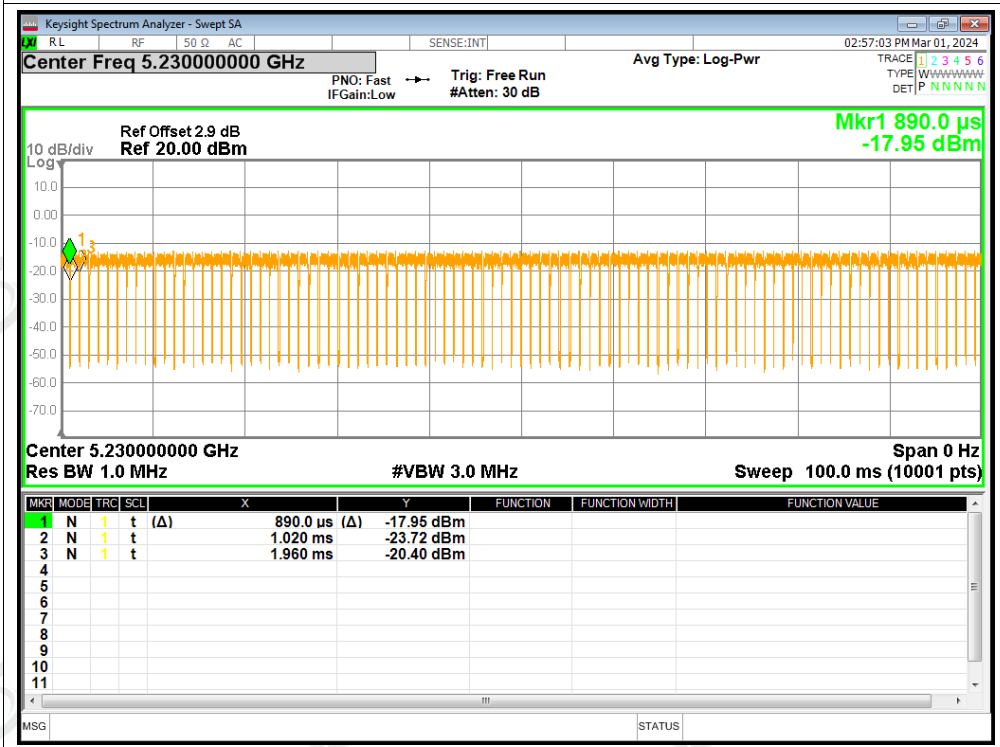




Duty Cycle NVNT n40 5190MHz Ant1

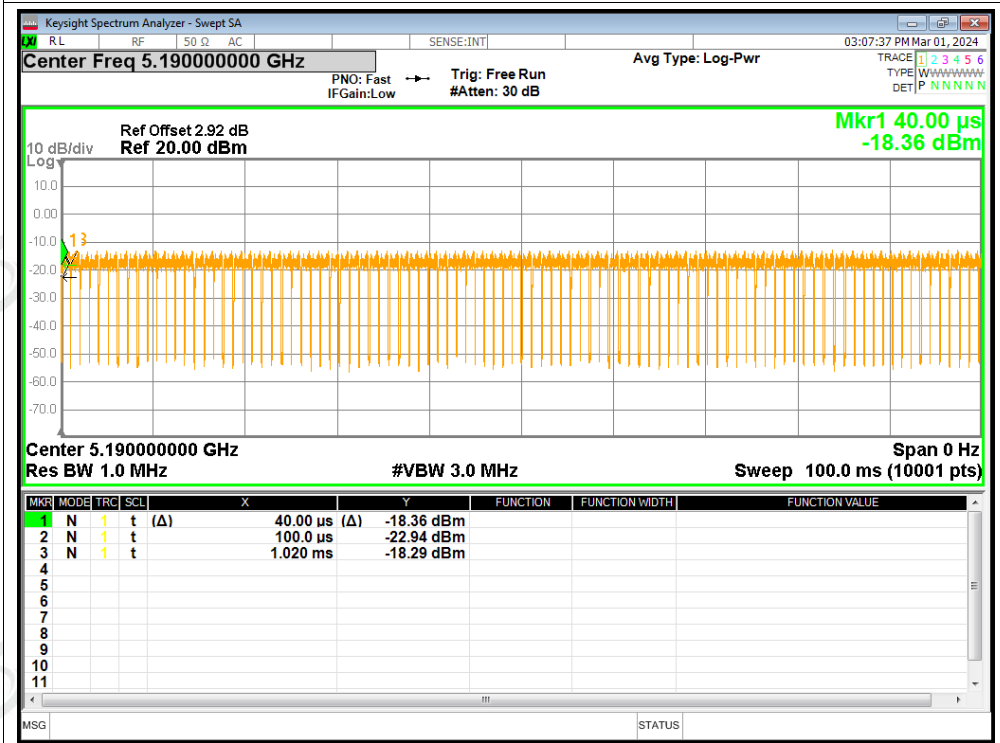


Duty Cycle NVNT n40 5230MHz Ant1

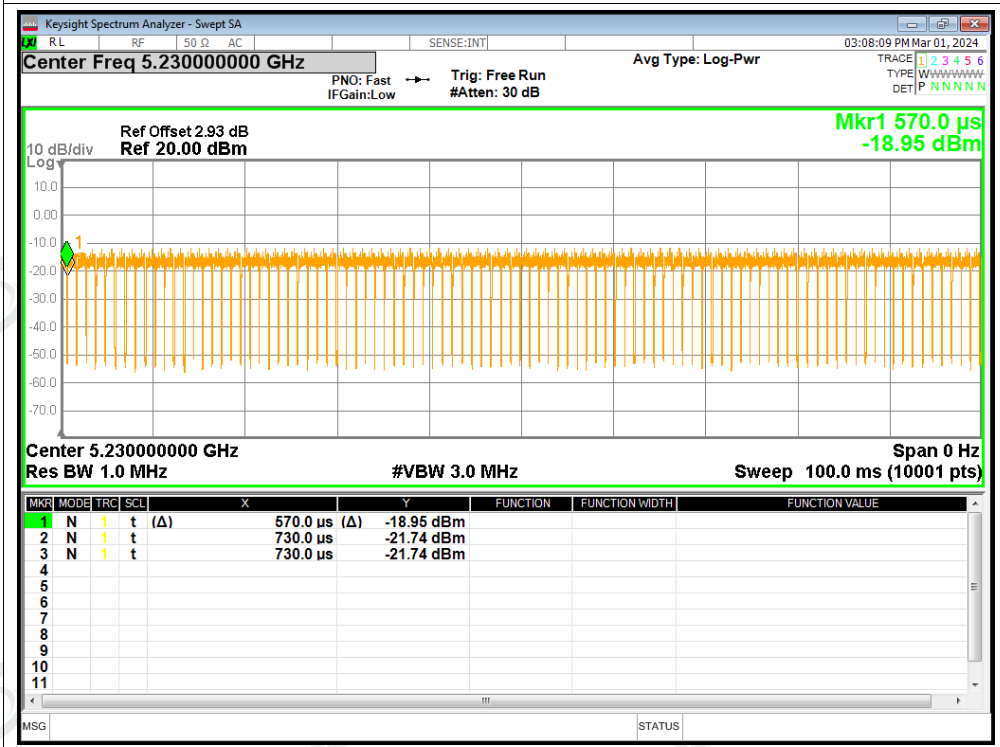




Duty Cycle NVNT n40 5190MHz Ant2

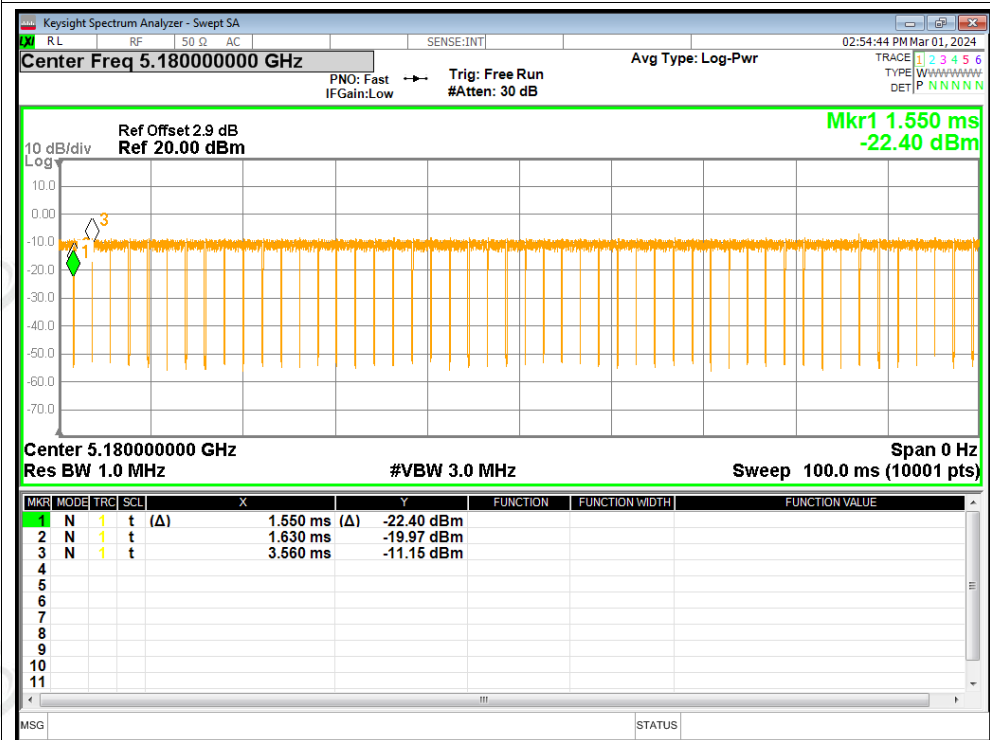


Duty Cycle NVNT n40 5230MHz Ant2

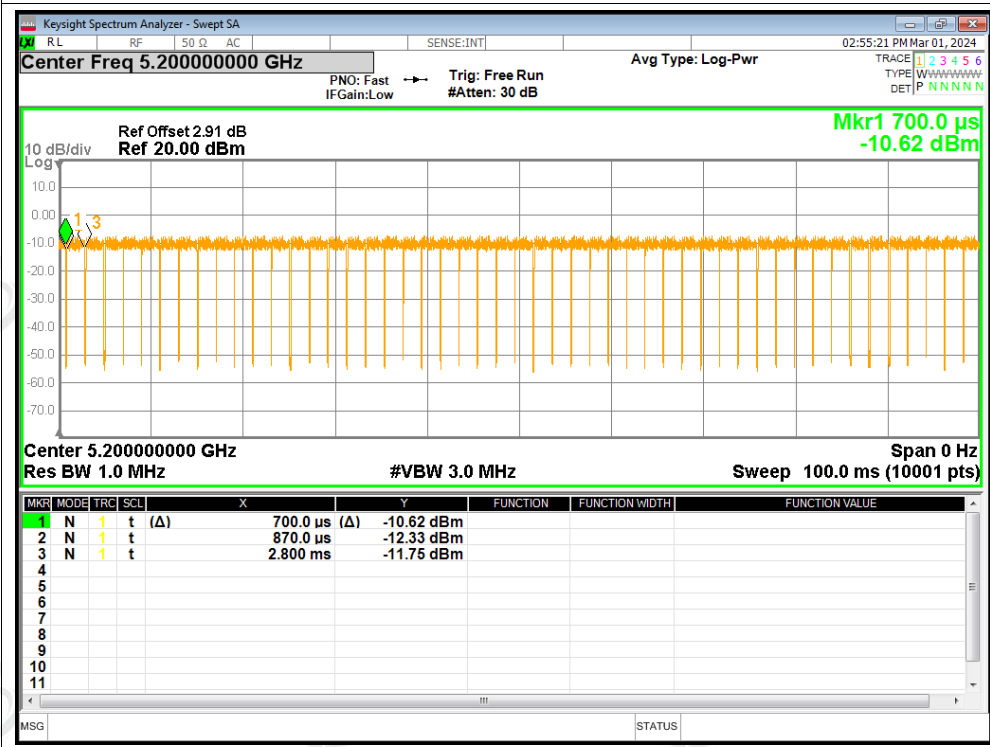




Duty Cycle NVNT ac20 5180MHz Ant1

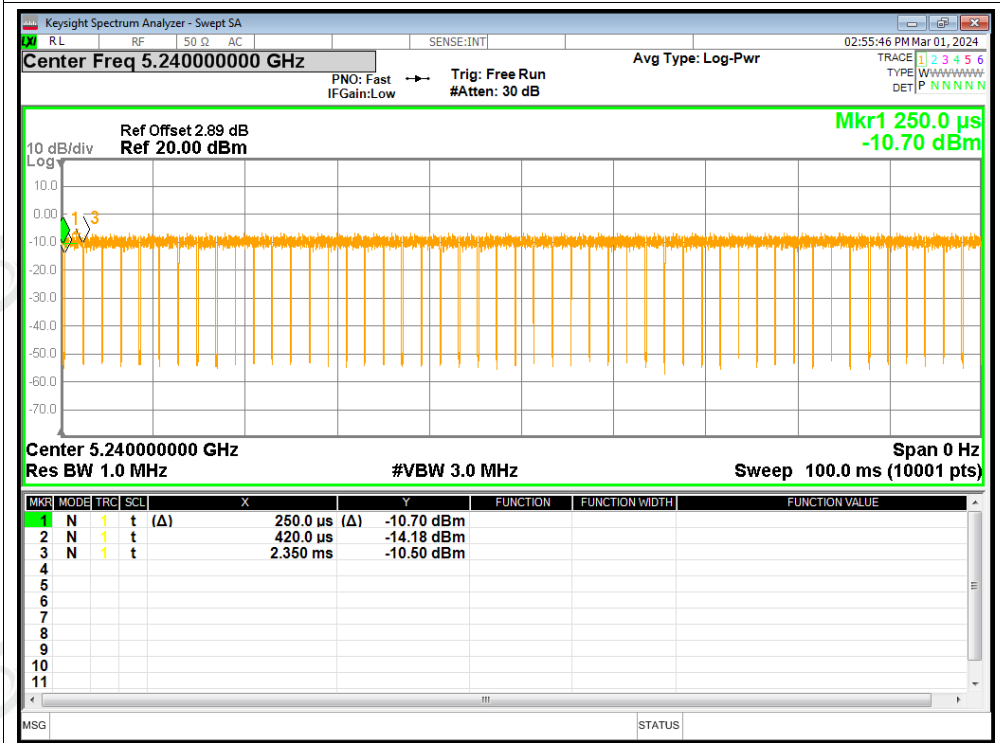


Duty Cycle NVNT ac20 5200MHz Ant1

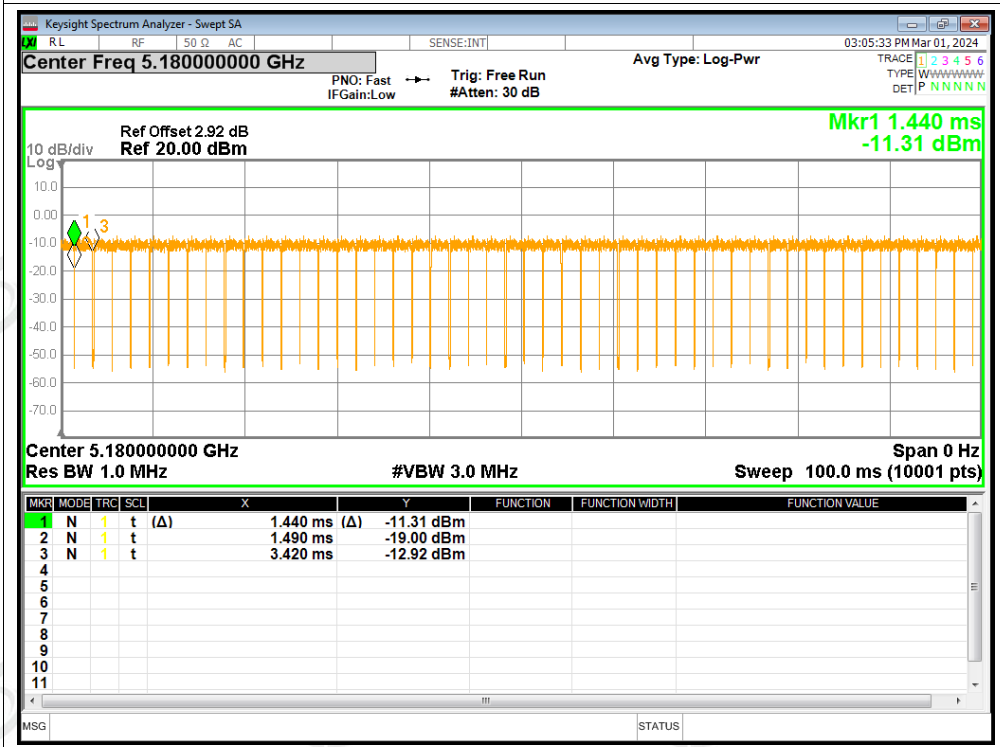




Duty Cycle NVNT ac20 5240MHz Ant1

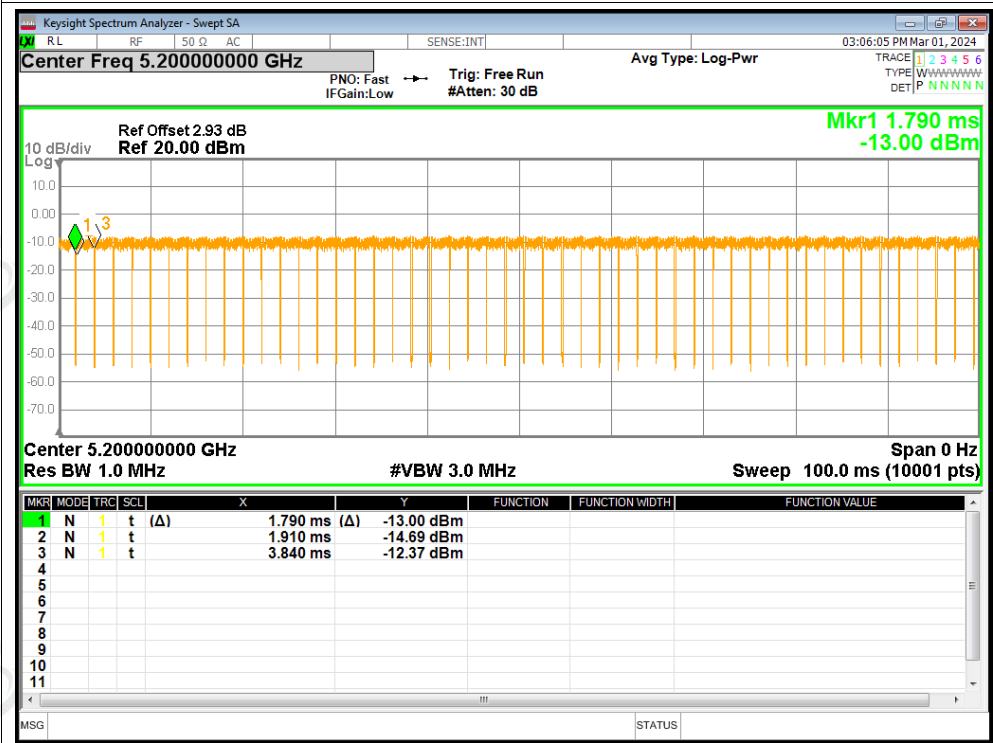


Duty Cycle NVNT ac20 5180MHz Ant2

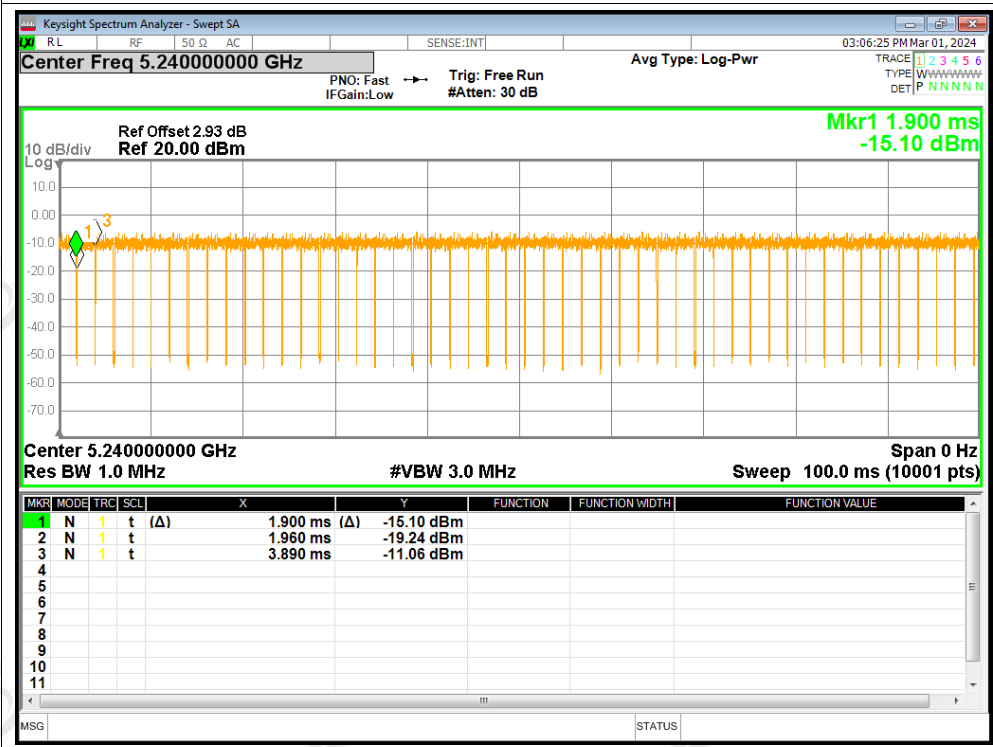




Duty Cycle NVNT ac20 5200MHz Ant2

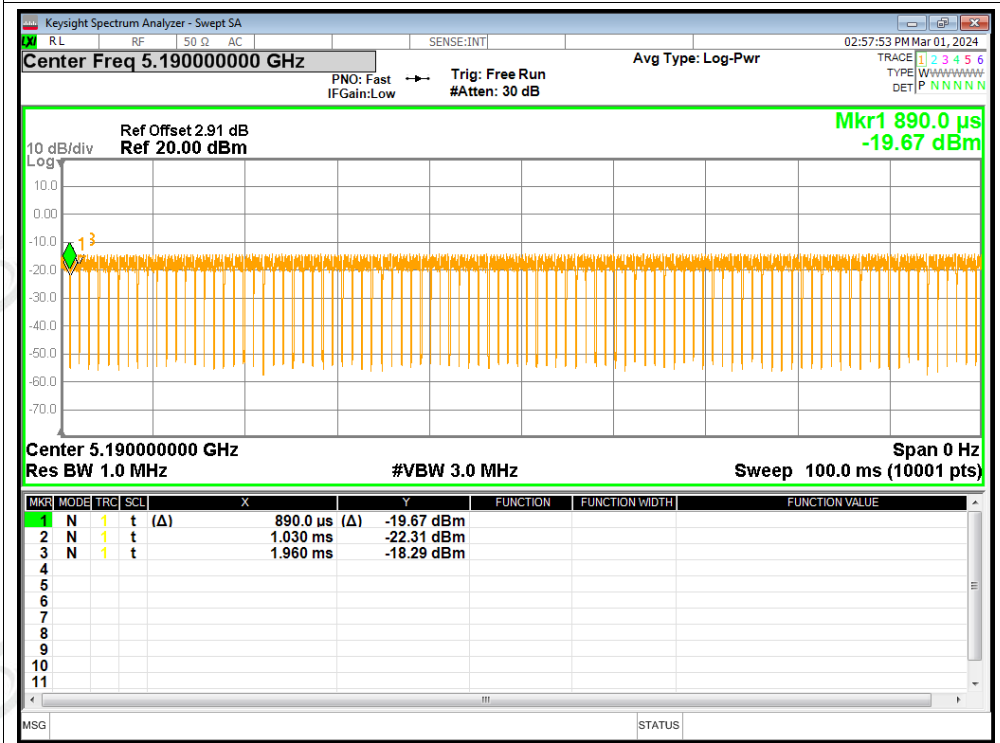


Duty Cycle NVNT ac20 5240MHz Ant2

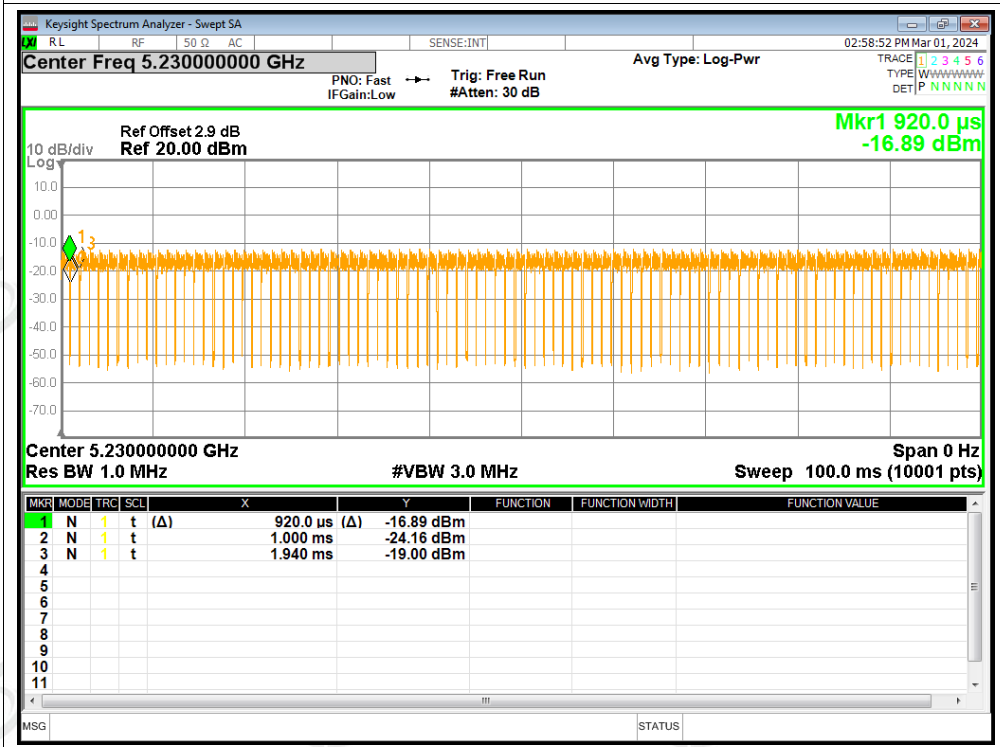




Duty Cycle NVNT ac40 5190MHz Ant1

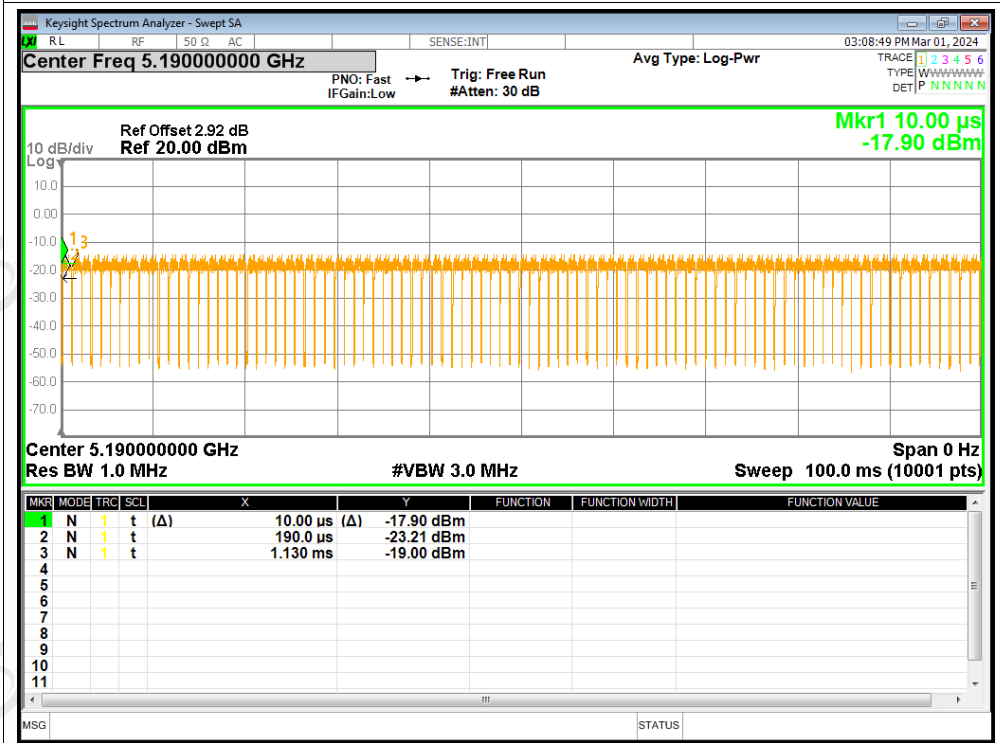


Duty Cycle NVNT ac40 5230MHz Ant1

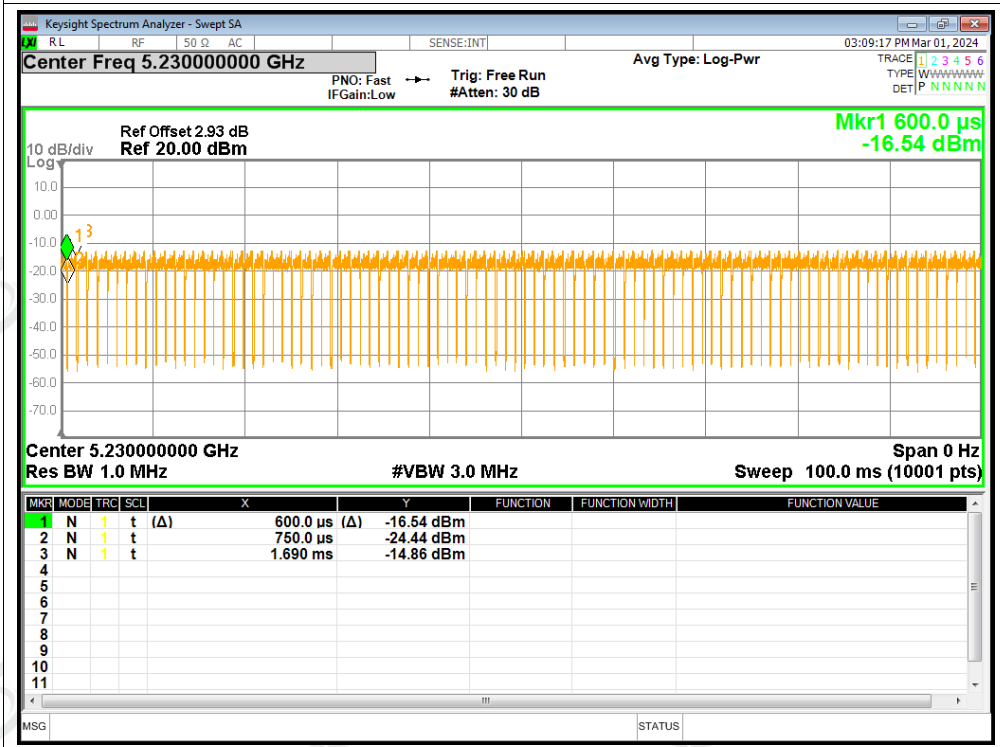




Duty Cycle NVNT ac40 5190MHz Ant2



Duty Cycle NVNT ac40 5230MHz Ant2

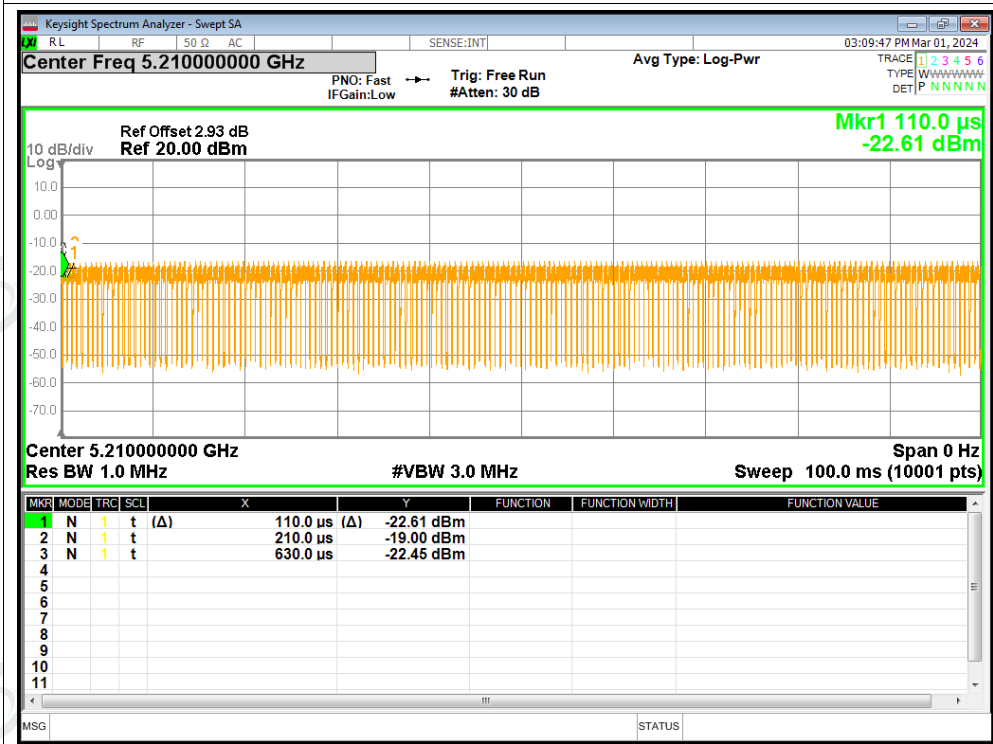




Duty Cycle NVNT ac80 5210MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant2





B2. 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	1.03	0.31	1.34	24	Pass
NVNT	a	5200	Ant1	0.73	0.23	0.96	24	Pass
NVNT	a	5240	Ant1	0.83	0.32	1.15	24	Pass
NVNT	a	5180	Ant2	0.66	0.34	1	24	Pass
NVNT	a	5200	Ant2	1	0.12	1.12	24	Pass
NVNT	a	5240	Ant2	0.62	0	0.62	24	Pass
NVNT	n20	5180	Ant1	0.82	0.18	1	24	Pass
NVNT	n20	5200	Ant1	0.41	0.22	0.63	24	Pass
NVNT	n20	5240	Ant1	0.23	0.28	0.51	24	Pass
NVNT	n20	5180	Ant2	0.64	0.13	0.77	24	Pass
NVNT	n20	5200	Ant2	1.51	0.11	1.62	24	Pass
NVNT	n20	5240	Ant2	1.28	0.2	1.48	24	Pass
NVNT	n40	5190	Ant1	0.31	0.61	0.92	24	Pass
NVNT	n40	5230	Ant1	0.38	0.56	0.94	24	Pass
NVNT	n40	5190	Ant2	0.54	0.27	0.81	24	Pass
NVNT	n40	5230	Ant2	0.02	0.28	0.3	24	Pass
NVNT	ac20	5180	Ant1	0.58	0.18	0.76	24	Pass
NVNT	ac20	5200	Ant1	0.17	0.37	0.54	24	Pass
NVNT	ac20	5240	Ant1	0.13	0.37	0.5	24	Pass
NVNT	ac20	5180	Ant2	0.6	0.11	0.71	24	Pass
NVNT	ac20	5200	Ant2	0.69	0.26	0.95	24	Pass
NVNT	ac20	5240	Ant2	0.42	0.13	0.55	24	Pass
NVNT	ac40	5190	Ant1	0.26	0.61	0.87	24	Pass
NVNT	ac40	5230	Ant1	0.29	0.35	0.64	24	Pass
NVNT	ac40	5190	Ant2	0.52	0.76	1.28	24	Pass
NVNT	ac40	5230	Ant2	0.8	0.64	1.44	24	Pass
NVNT	ac80	5210	Ant1	0.26	1.07	1.33	24	Pass
NVNT	ac80	5210	Ant2	0.23	0.93	1.16	24	Pass
NVNT	n20	5180	MIMO	/	/	3.90	24	Pass
NVNT	n20	5200	MIMO	/	/	4.16	24	Pass
NVNT	n20	5240	MIMO	/	/	4.03	24	Pass
NVNT	n40	5190	MIMO	/	/	3.88	24	Pass
NVNT	n40	5230	MIMO	/	/	3.64	24	Pass
NVNT	ac20	5180	MIMO	/	/	3.75	24	Pass
NVNT	ac20	5200	MIMO	/	/	3.76	24	Pass
NVNT	ac20	5240	MIMO	/	/	3.54	24	Pass
NVNT	ac40	5190	MIMO	/	/	4.09	24	Pass
NVNT	ac40	5230	MIMO	/	/	4.07	24	Pass
NVNT	ac80	5210	MIMO	/	/	4.26	24	Pass



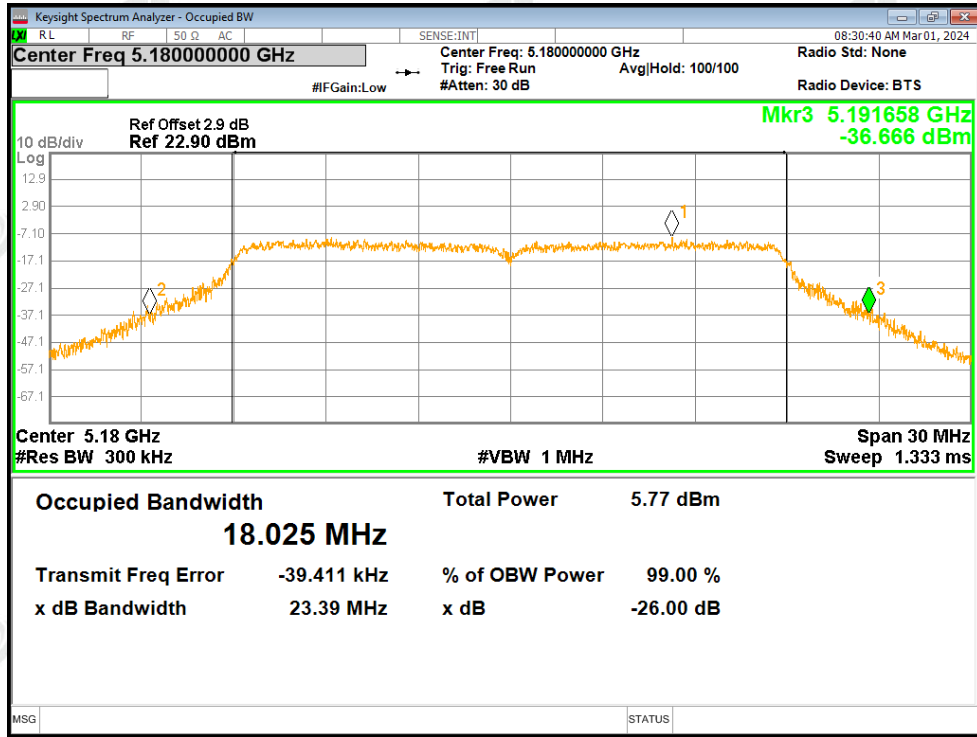
B3. -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.39	0.5	Pass
NVNT	a	5200	Ant1	23.40	0.5	Pass
NVNT	a	5240	Ant1	23.07	0.5	Pass
NVNT	a	5180	Ant2	23.46	0.5	Pass
NVNT	a	5200	Ant2	23.05	0.5	Pass
NVNT	a	5240	Ant2	23.72	0.5	Pass
NVNT	n20	5180	Ant1	23.46	0.5	Pass
NVNT	n20	5200	Ant1	23.30	0.5	Pass
NVNT	n20	5240	Ant1	23.33	0.5	Pass
NVNT	n20	5180	Ant2	23.06	0.5	Pass
NVNT	n20	5200	Ant2	23.35	0.5	Pass
NVNT	n20	5240	Ant2	23.19	0.5	Pass
NVNT	n40	5190	Ant1	43.61	0.5	Pass
NVNT	n40	5230	Ant1	42.89	0.5	Pass
NVNT	n40	5190	Ant2	43.40	0.5	Pass
NVNT	n40	5230	Ant2	43.01	0.5	Pass
NVNT	ac20	5180	Ant1	23.30	0.5	Pass
NVNT	ac20	5200	Ant1	23.73	0.5	Pass
NVNT	ac20	5240	Ant1	23.70	0.5	Pass
NVNT	ac20	5180	Ant2	23.32	0.5	Pass
NVNT	ac20	5200	Ant2	23.37	0.5	Pass
NVNT	ac20	5240	Ant2	23.43	0.5	Pass
NVNT	ac40	5190	Ant1	43.37	0.5	Pass
NVNT	ac40	5230	Ant1	42.16	0.5	Pass
NVNT	ac40	5190	Ant2	42.79	0.5	Pass
NVNT	ac40	5230	Ant2	42.99	0.5	Pass
NVNT	ac80	5210	Ant1	80.54	0.5	Pass
NVNT	ac80	5210	Ant2	79.74	0.5	Pass

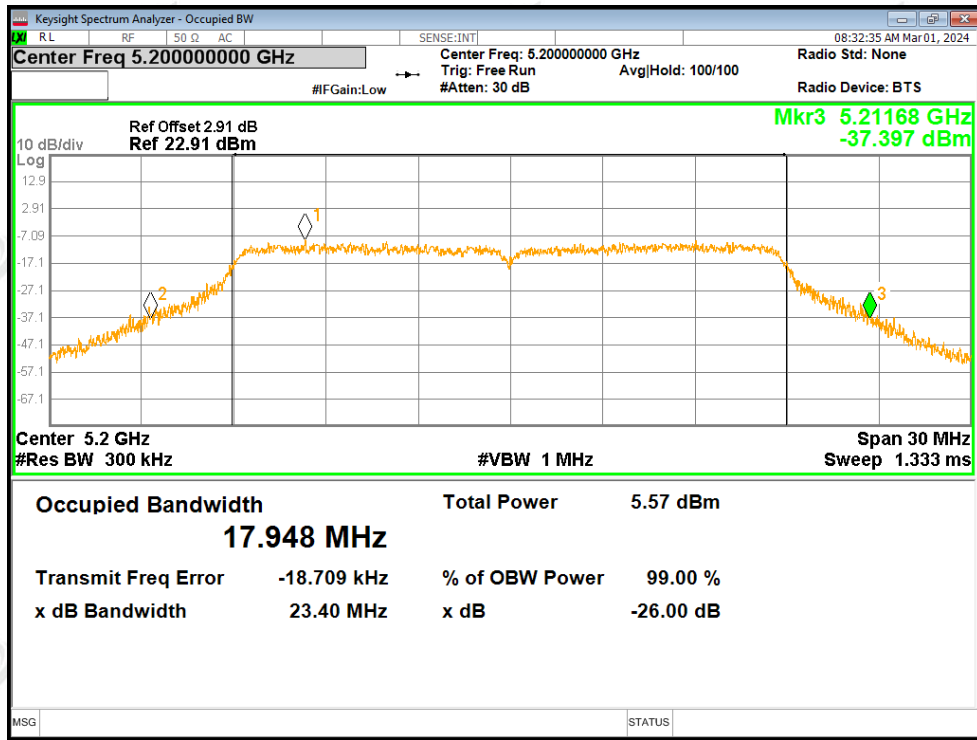


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

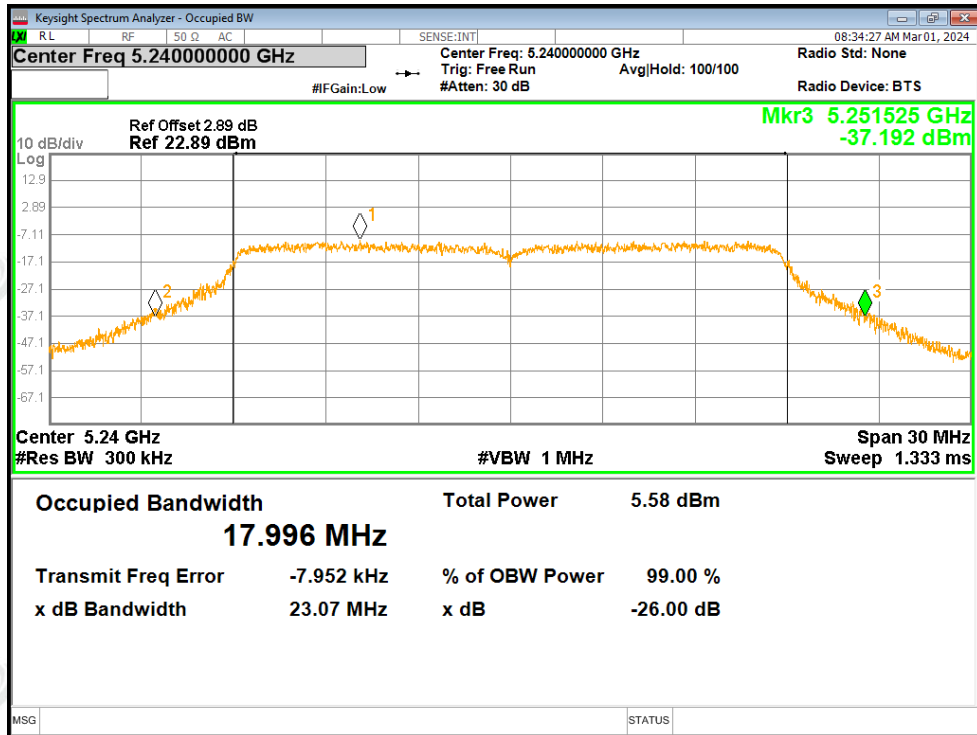


-26dB Bandwidth NVNT a 5200MHz Ant1

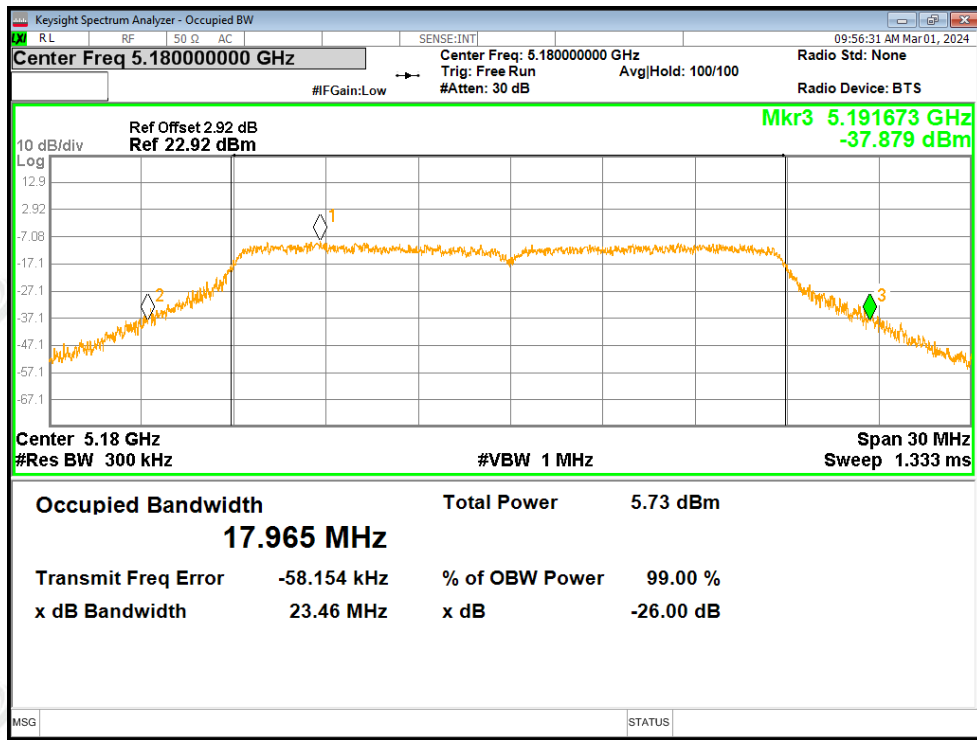




-26dB Bandwidth NVNT a 5240MHz Ant1

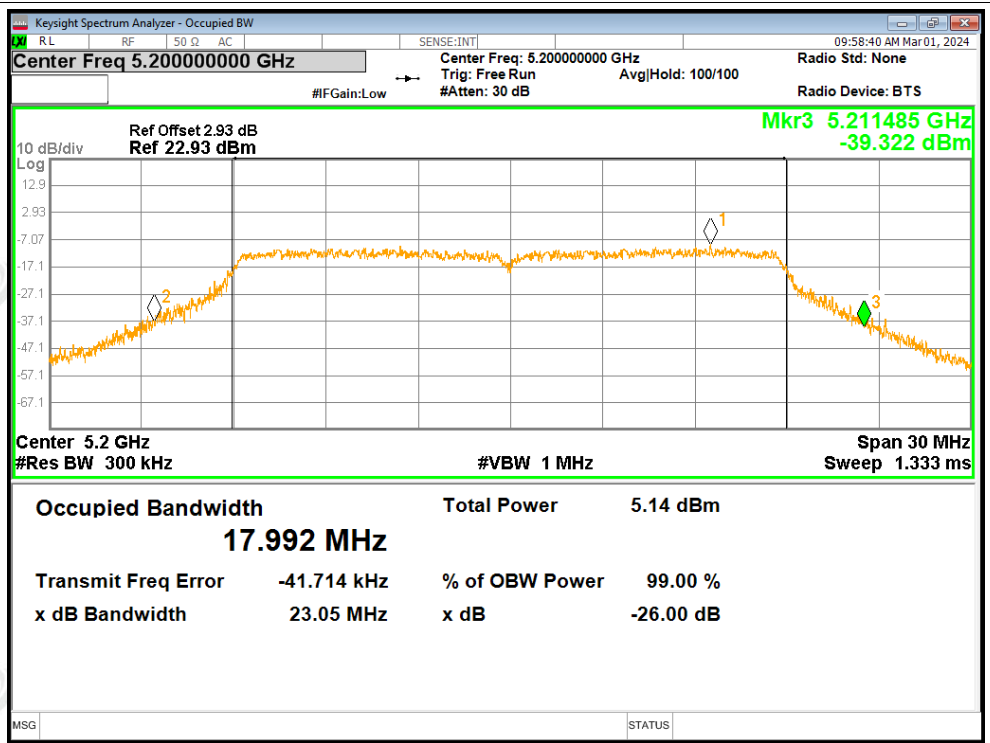


-26dB Bandwidth NVNT a 5180MHz Ant2

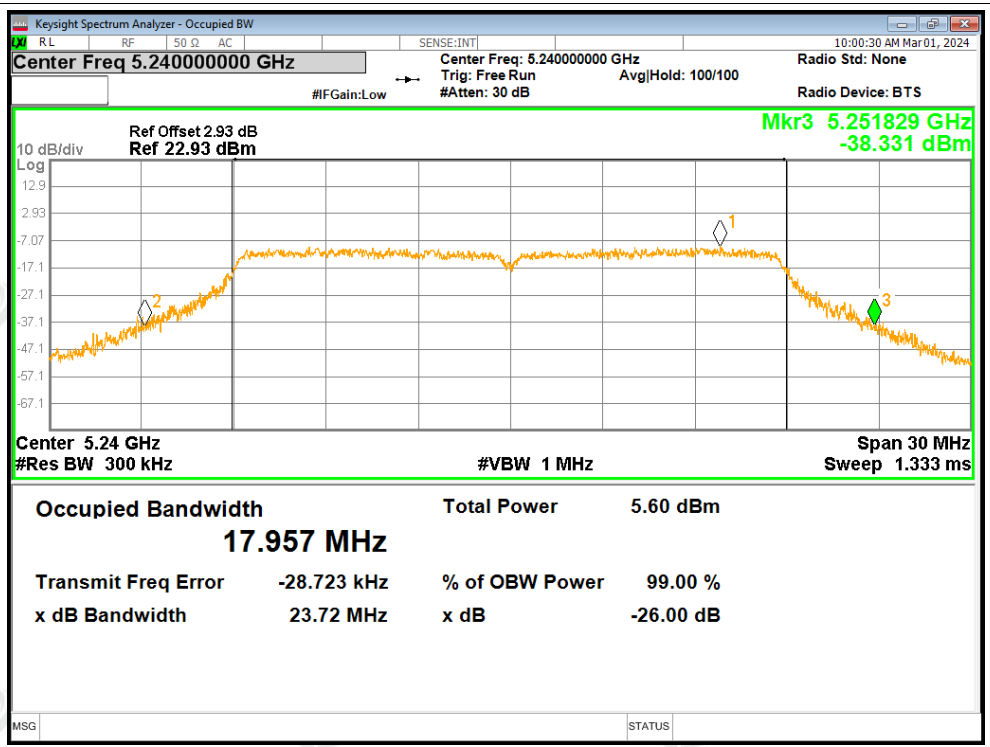




-26dB Bandwidth NVNT a 5200MHz Ant2

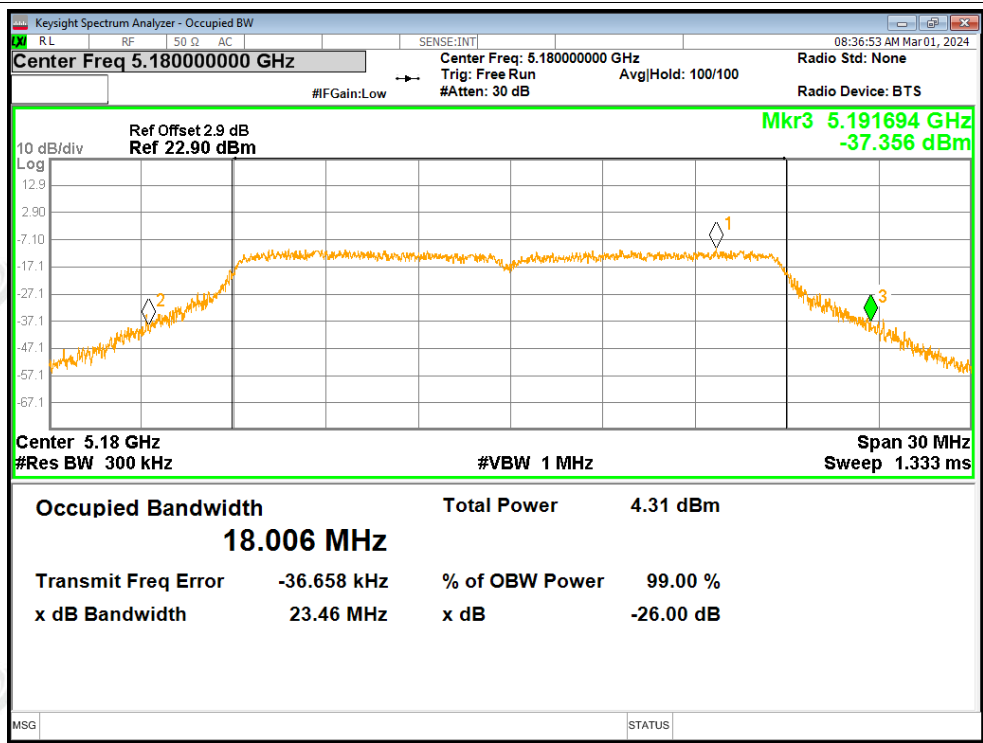


-26dB Bandwidth NVNT a 5240MHz Ant2

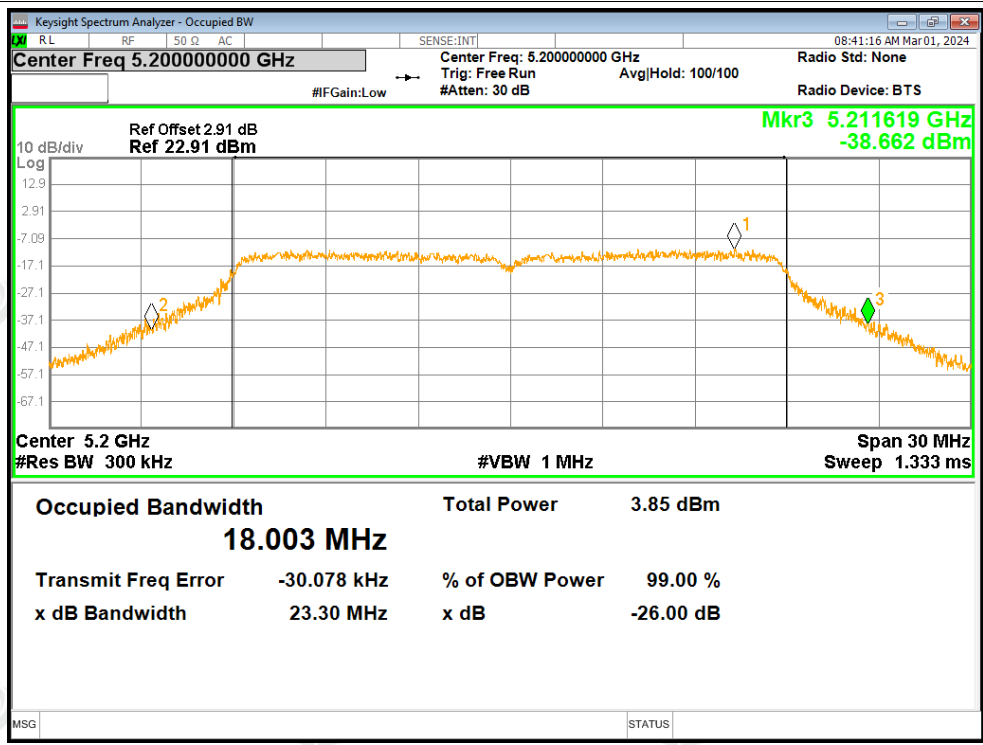




-26dB Bandwidth NVNT n20 5180MHz Ant1

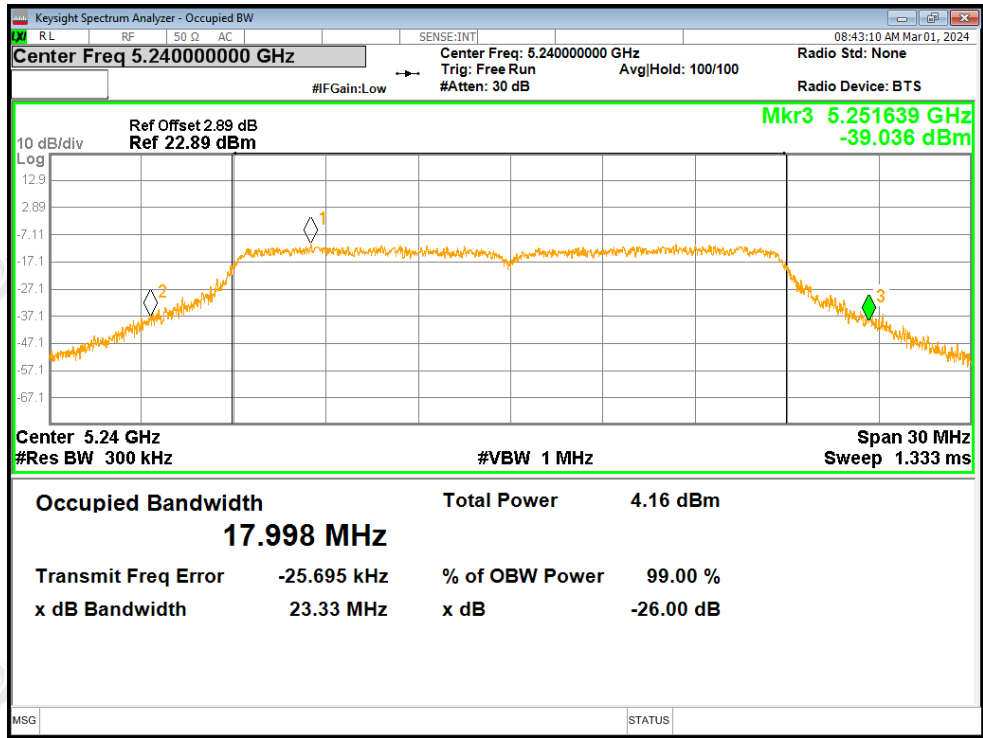


-26dB Bandwidth NVNT n20 5200MHz Ant1

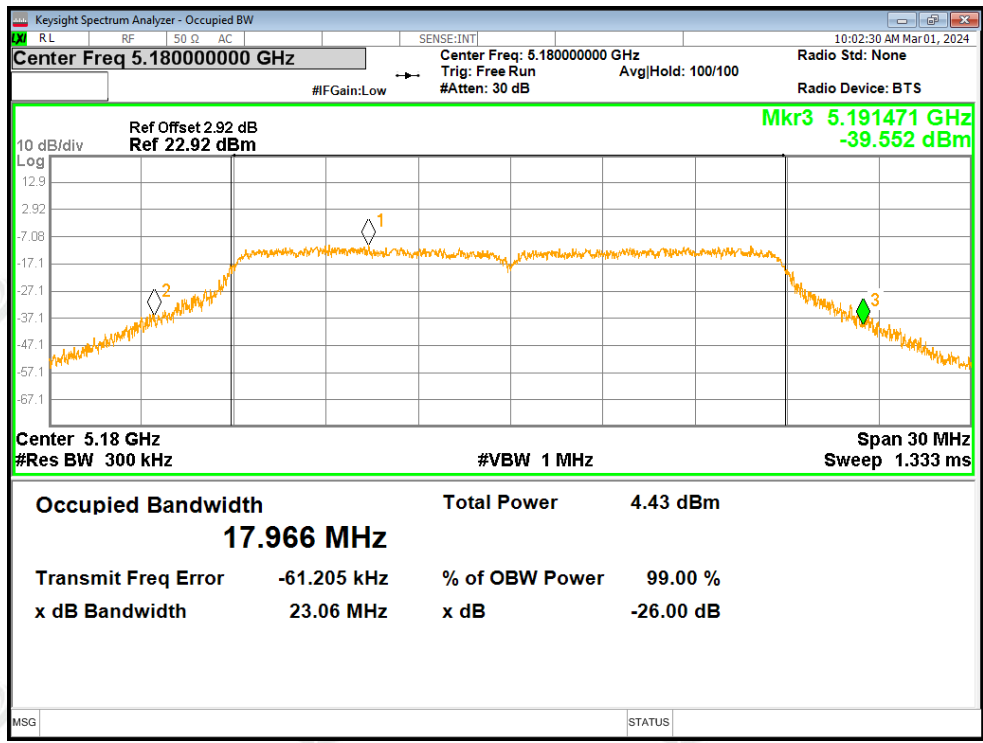




-26dB Bandwidth NVNT n20 5240MHz Ant1

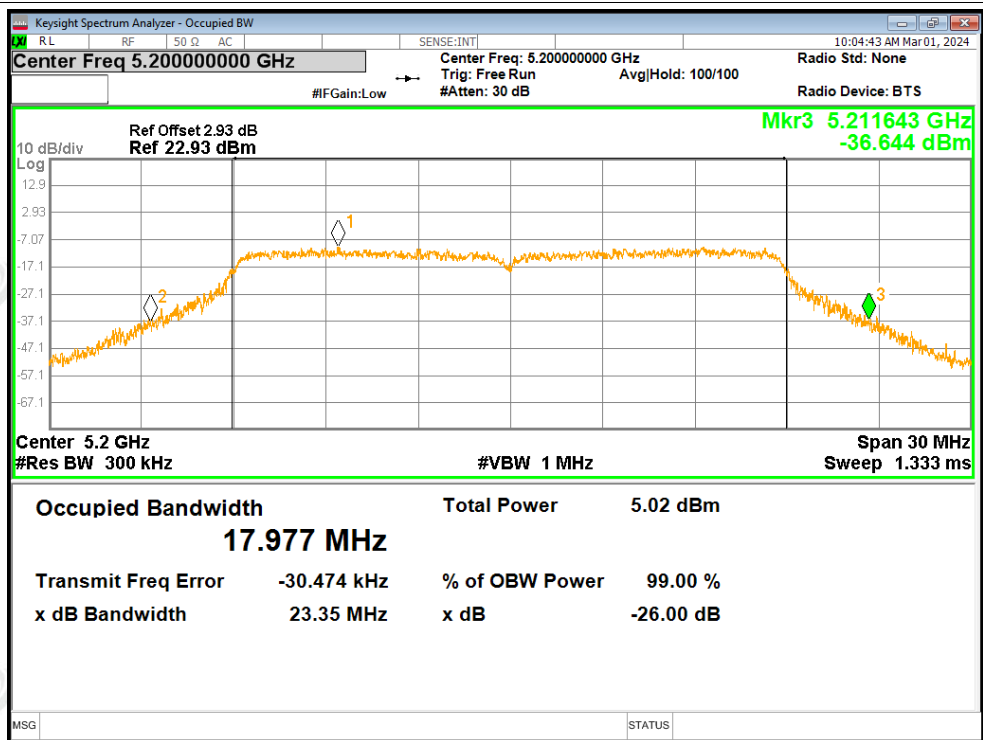


-26dB Bandwidth NVNT n20 5180MHz Ant2

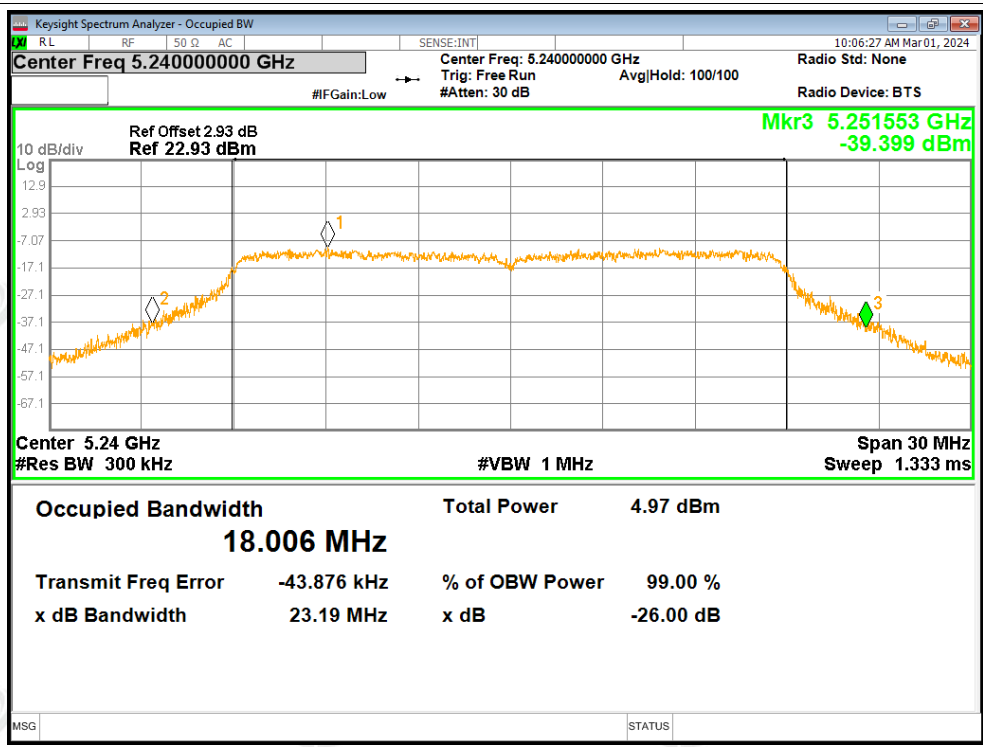




-26dB Bandwidth NVNT n20 5200MHz Ant2

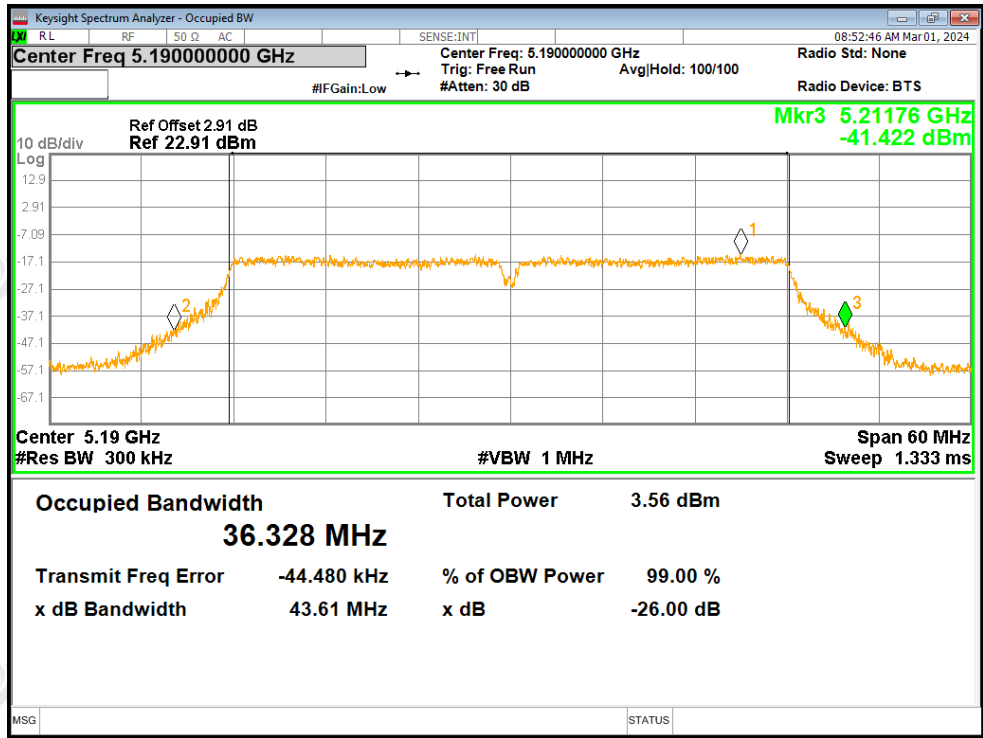


-26dB Bandwidth NVNT n20 5240MHz Ant2

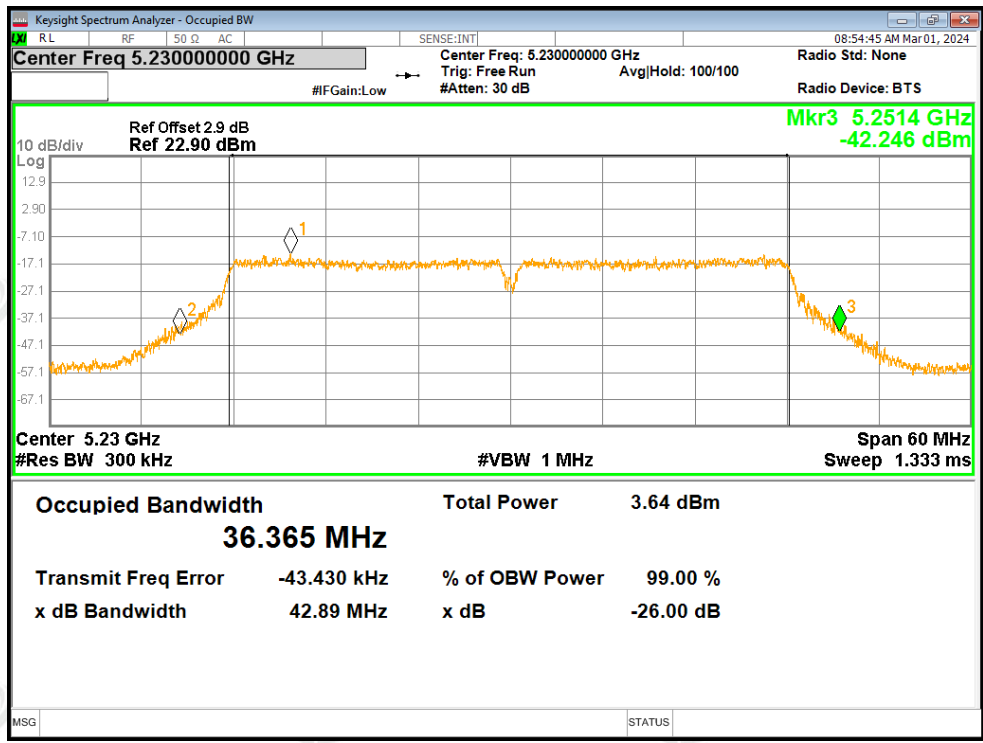




-26dB Bandwidth NVNT n40 5190MHz Ant1

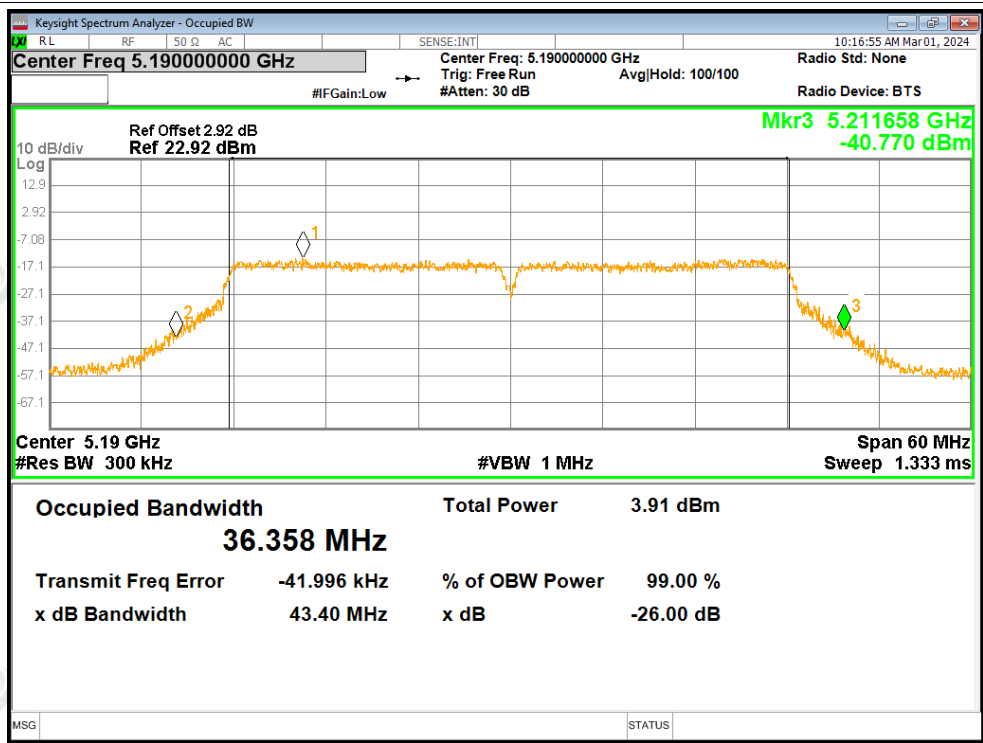


-26dB Bandwidth NVNT n40 5230MHz Ant1

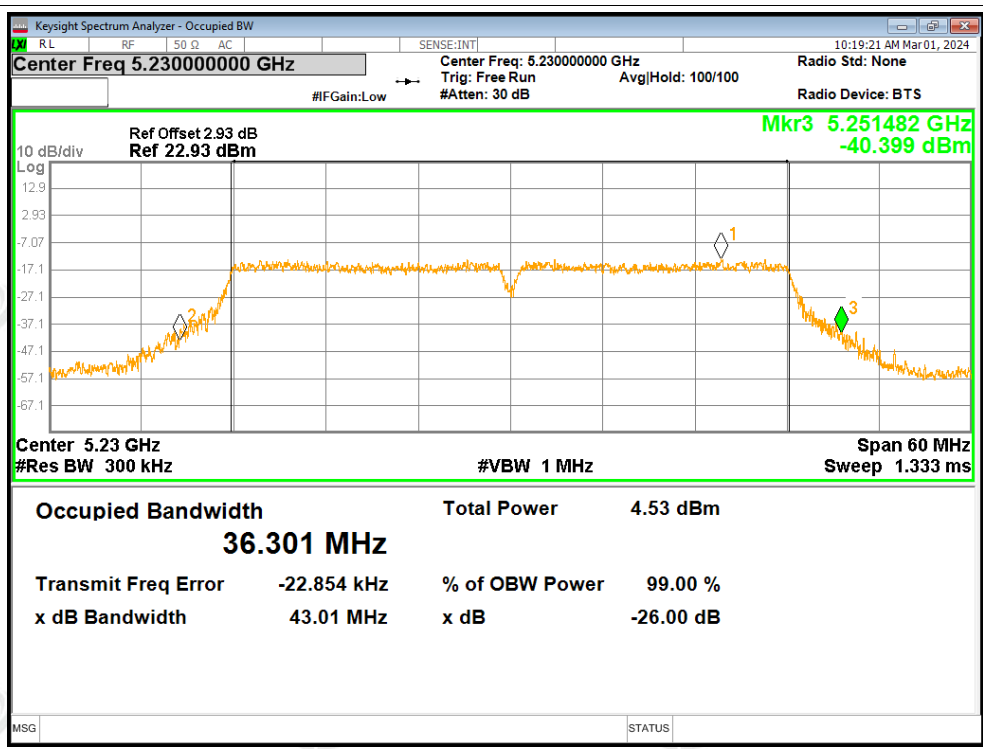




-26dB Bandwidth NVNT n40 5190MHz Ant2



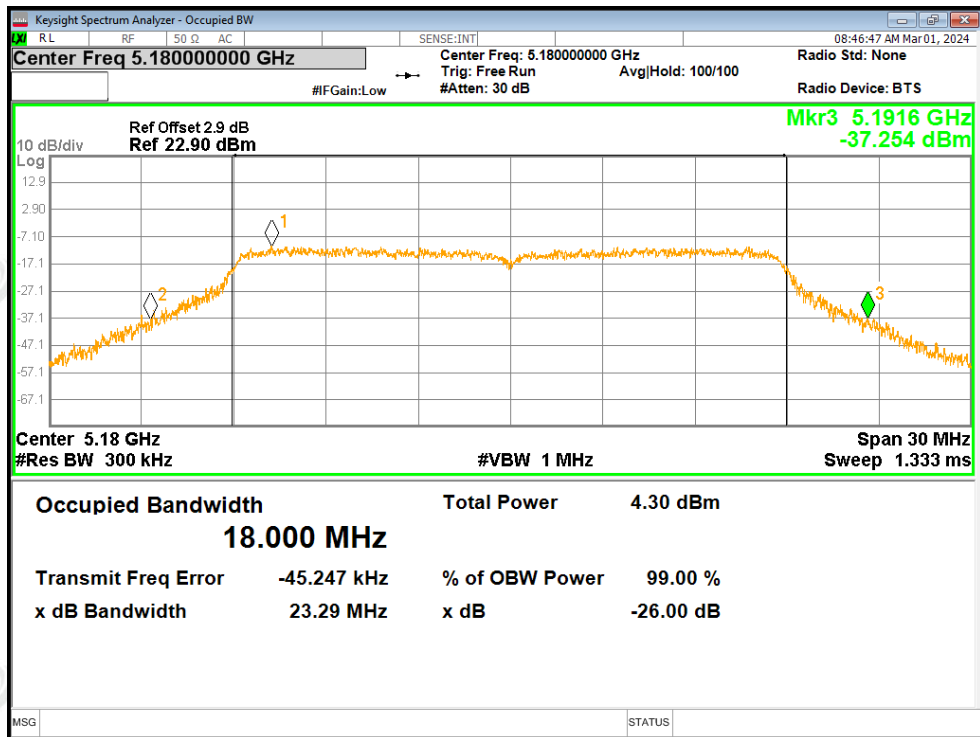
-26dB Bandwidth NVNT n40 5230MHz Ant2



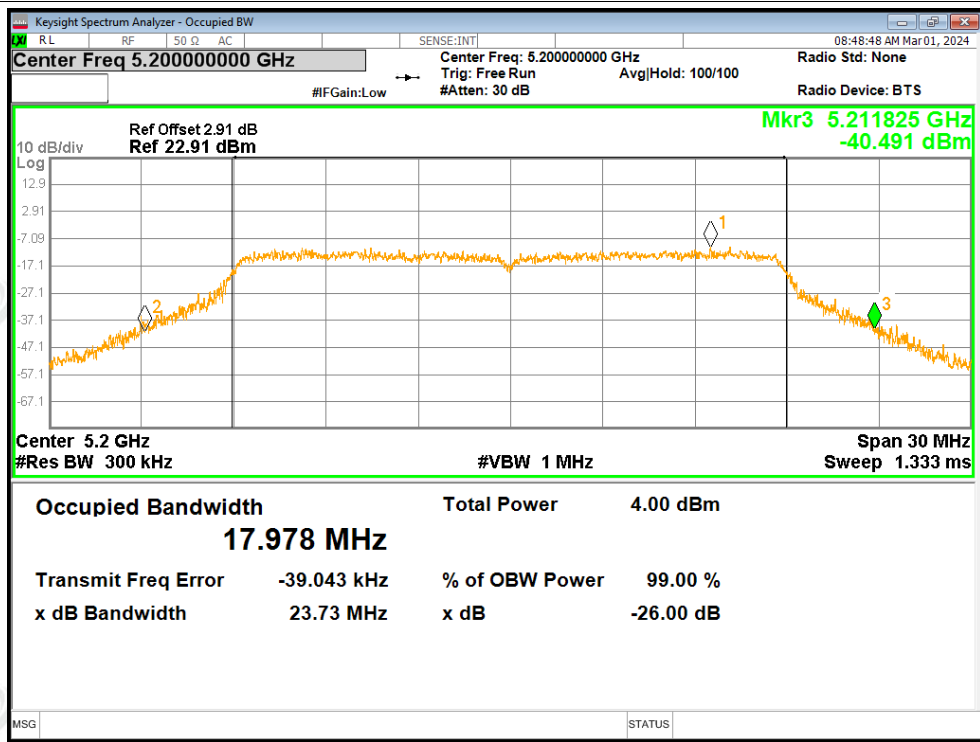


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-26dB Bandwidth NVNT ac20 5180MHz Ant1

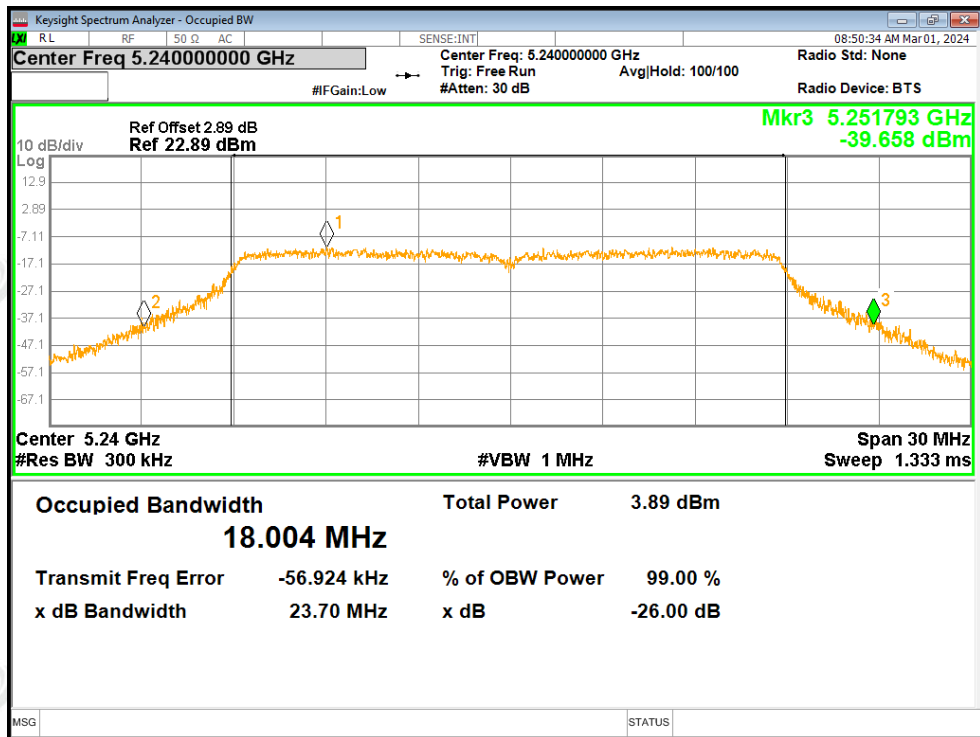


-26dB Bandwidth NVNT ac20 5200MHz Ant1

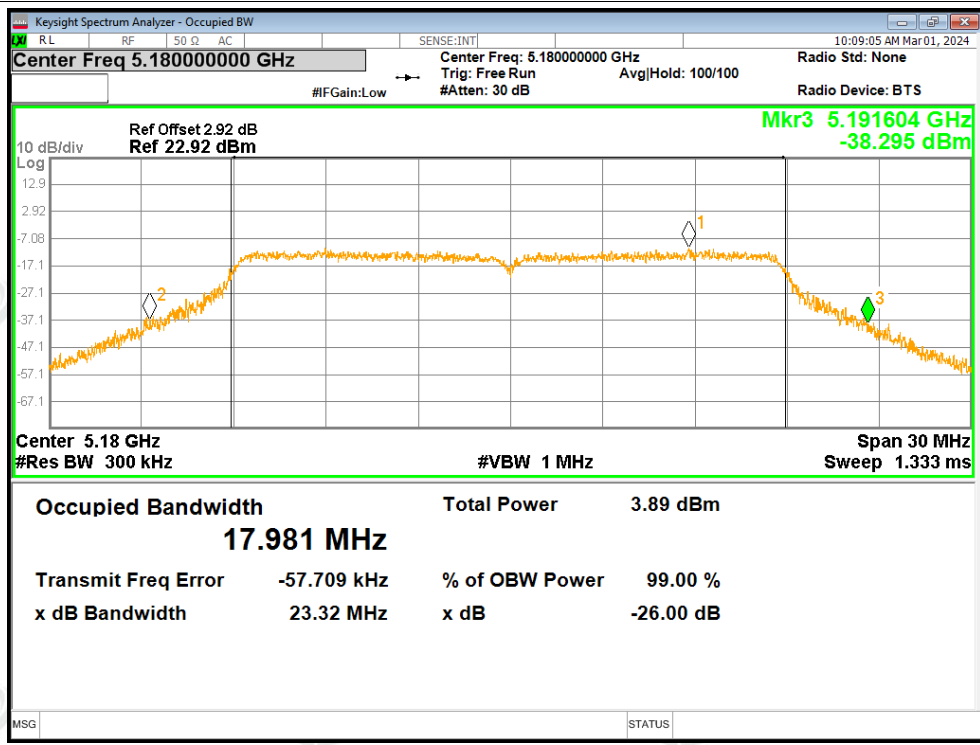




-26dB Bandwidth NVNT ac20 5240MHz Ant1

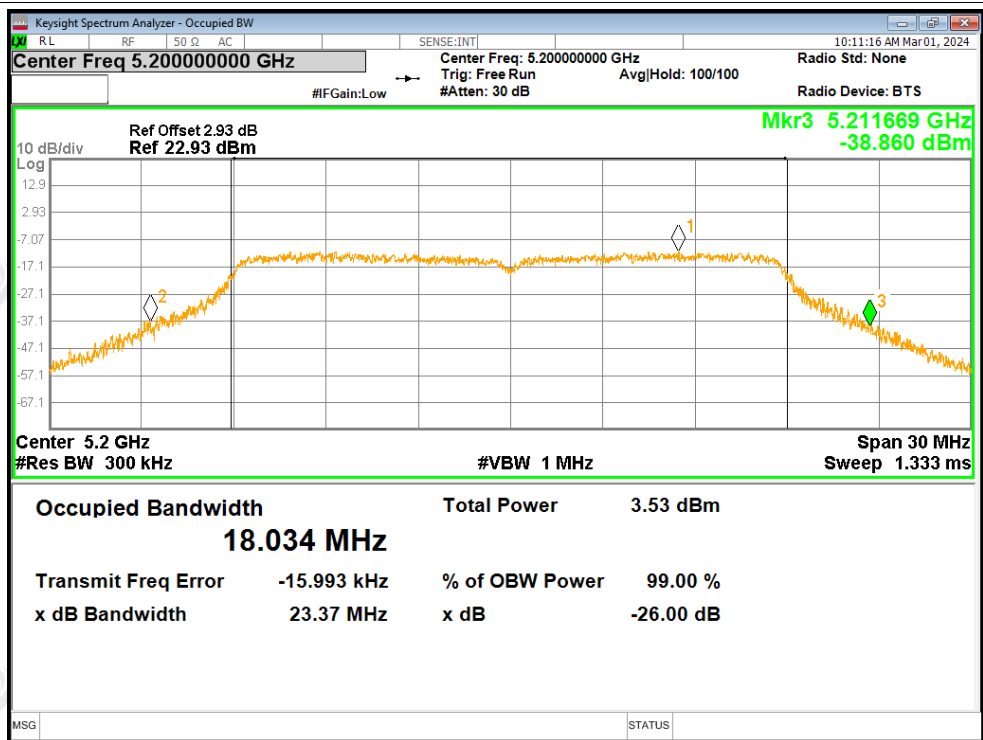


-26dB Bandwidth NVNT ac20 5180MHz Ant2

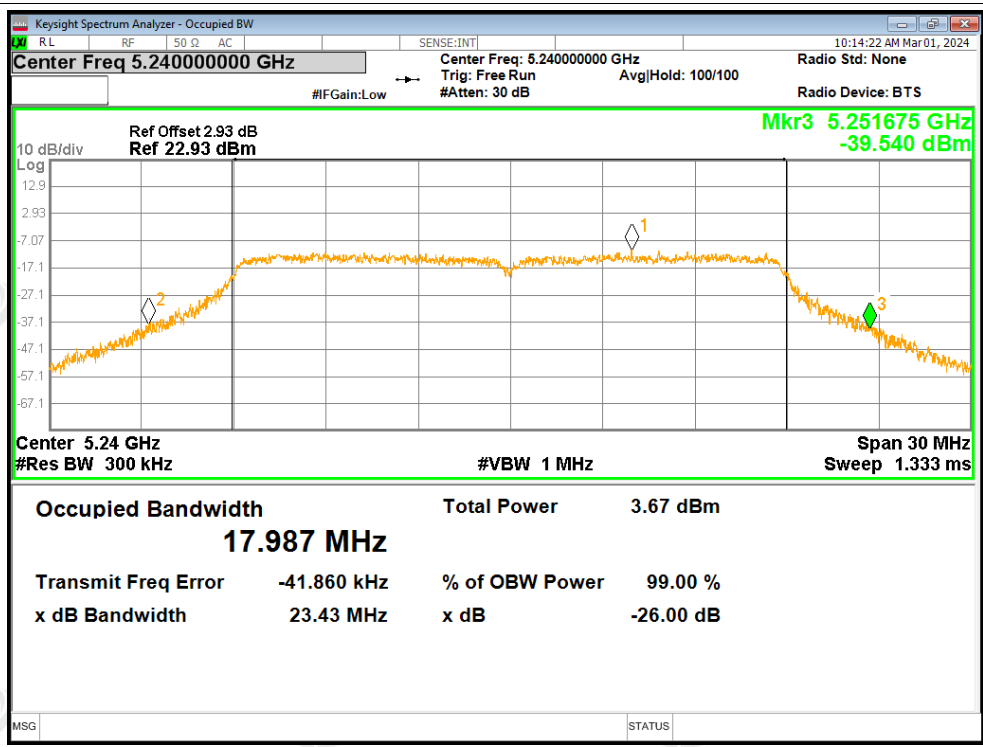




-26dB Bandwidth NVNT ac20 5200MHz Ant2

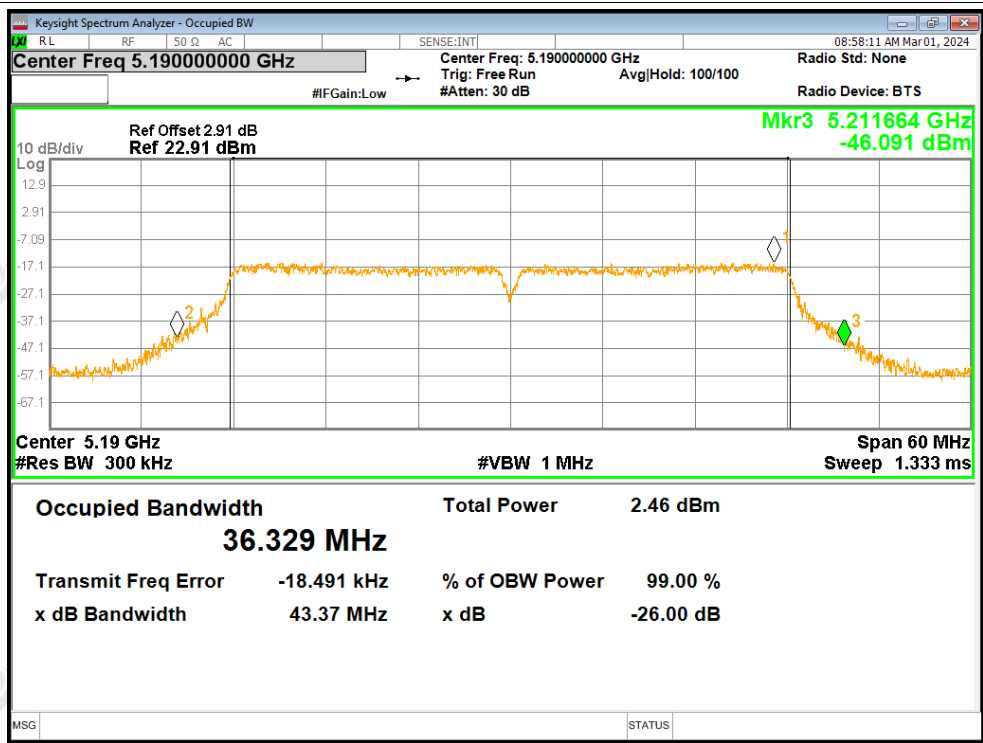


-26dB Bandwidth NVNT ac20 5240MHz Ant2

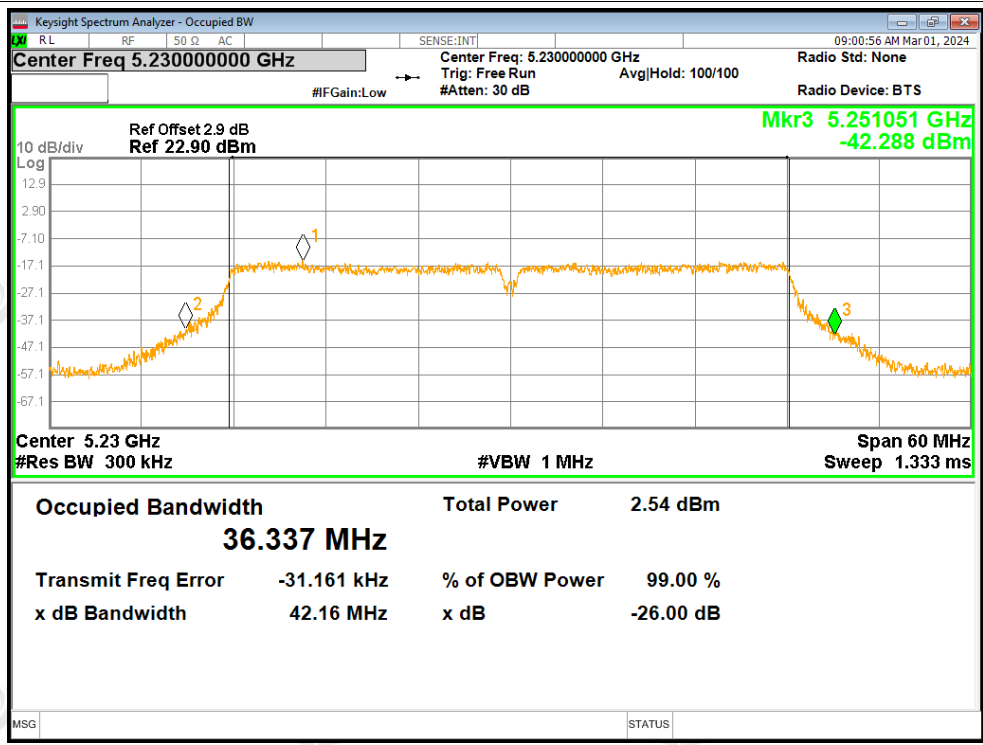




-26dB Bandwidth NVNT ac40 5190MHz Ant1

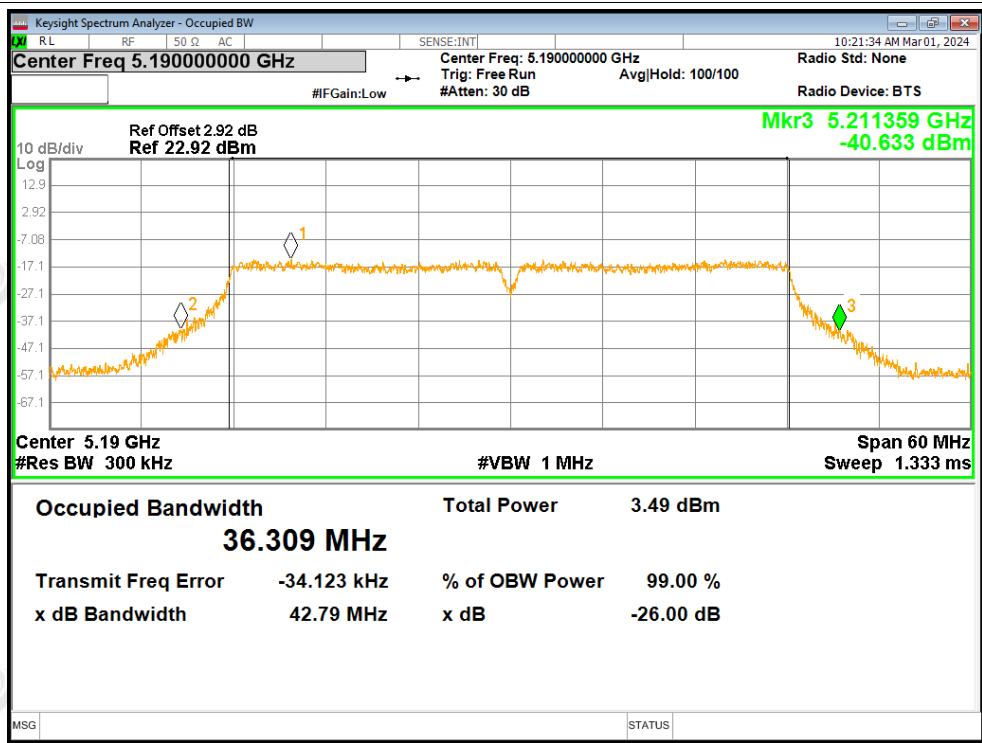


-26dB Bandwidth NVNT ac40 5230MHz Ant1

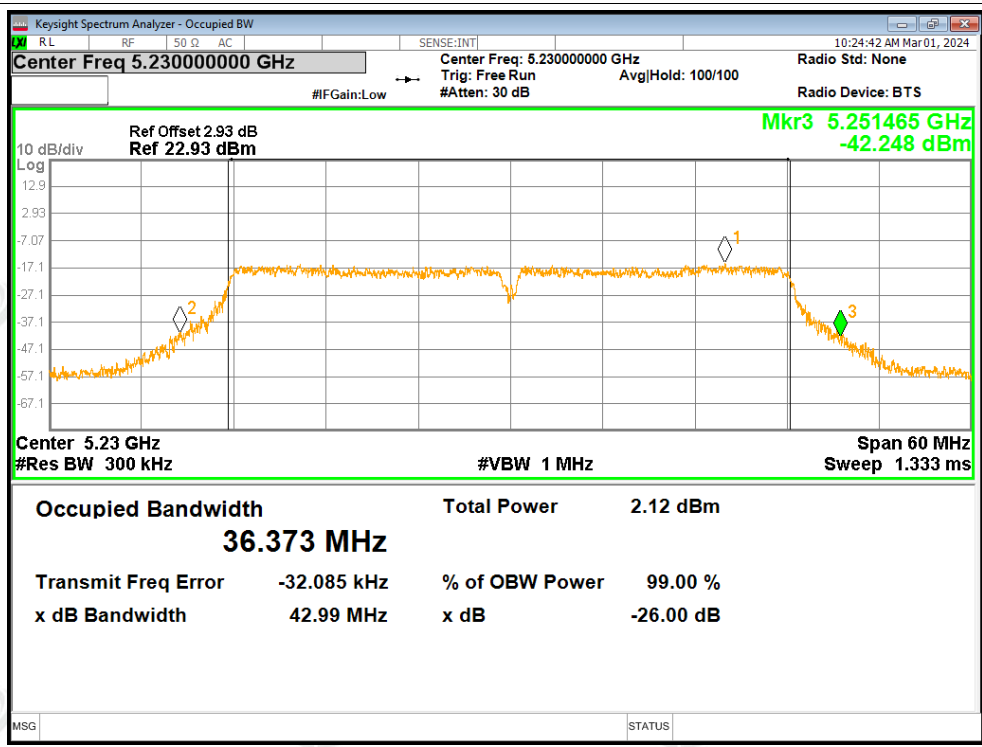




-26dB Bandwidth NVNT ac40 5190MHz Ant2

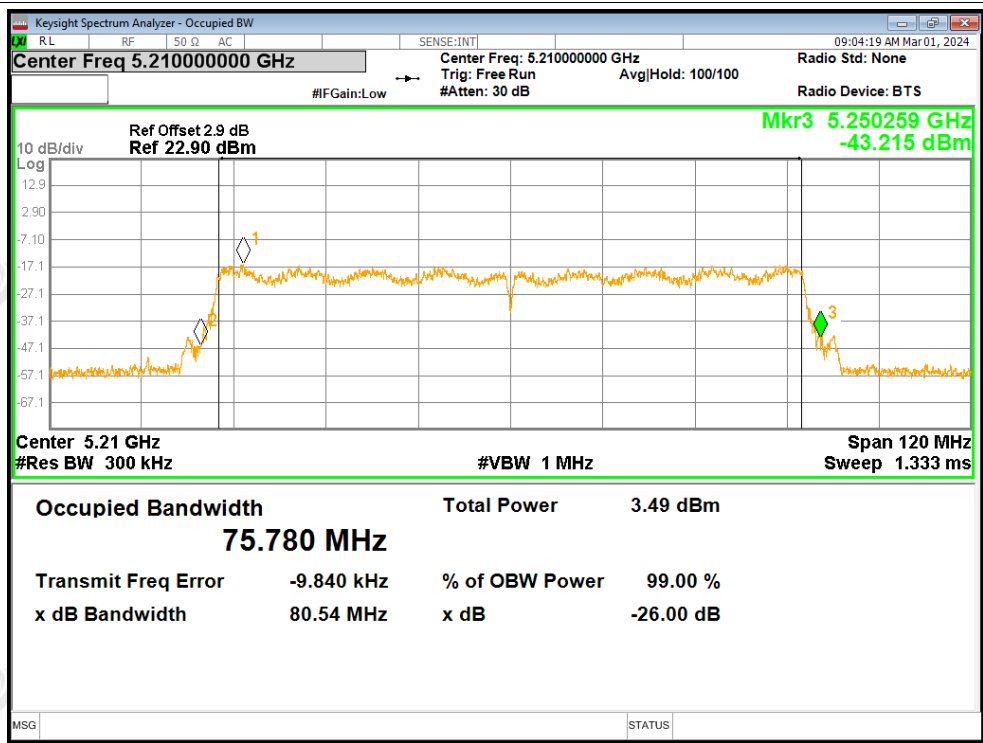


-26dB Bandwidth NVNT ac40 5230MHz Ant2

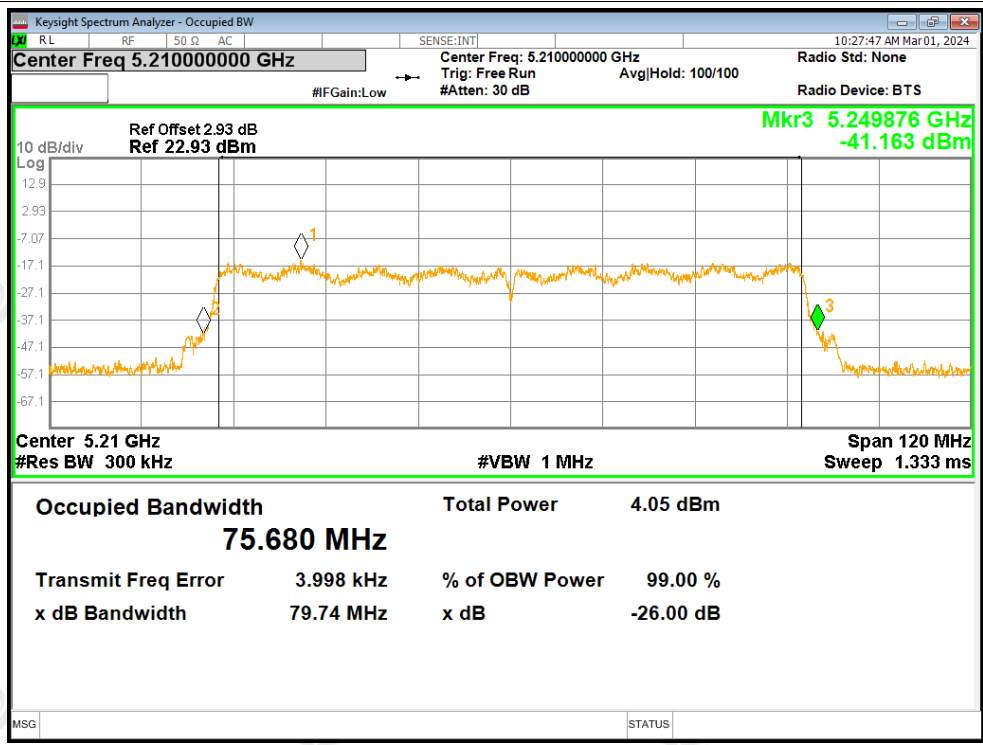




-26dB Bandwidth NVNT ac80 5210MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant2



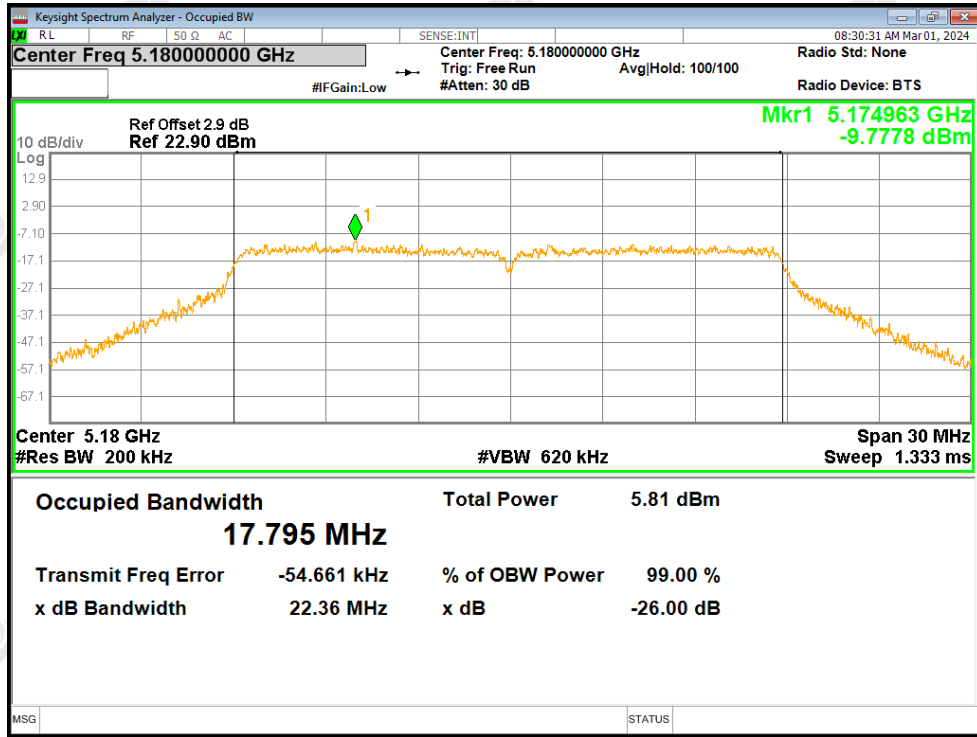
**B4. Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	17.795
NVNT	a	5200	Ant1	17.771
NVNT	a	5240	Ant1	17.793
NVNT	a	5180	Ant2	17.804
NVNT	a	5200	Ant2	17.793
NVNT	a	5240	Ant2	17.822
NVNT	n20	5180	Ant1	17.815
NVNT	n20	5200	Ant1	17.799
NVNT	n20	5240	Ant1	17.793
NVNT	n20	5180	Ant2	17.813
NVNT	n20	5200	Ant2	17.809
NVNT	n20	5240	Ant2	17.845
NVNT	n40	5190	Ant1	36.548
NVNT	n40	5230	Ant1	36.479
NVNT	n40	5190	Ant2	36.519
NVNT	n40	5230	Ant2	36.477
NVNT	ac20	5180	Ant1	17.817
NVNT	ac20	5200	Ant1	17.8
NVNT	ac20	5240	Ant1	17.809
NVNT	ac20	5180	Ant2	17.816
NVNT	ac20	5200	Ant2	17.814
NVNT	ac20	5240	Ant2	17.824
NVNT	ac40	5190	Ant1	36.534
NVNT	ac40	5230	Ant1	36.485
NVNT	ac40	5190	Ant2	36.57
NVNT	ac40	5230	Ant2	36.487
NVNT	ac80	5210	Ant1	75.925
NVNT	ac80	5210	Ant2	75.905

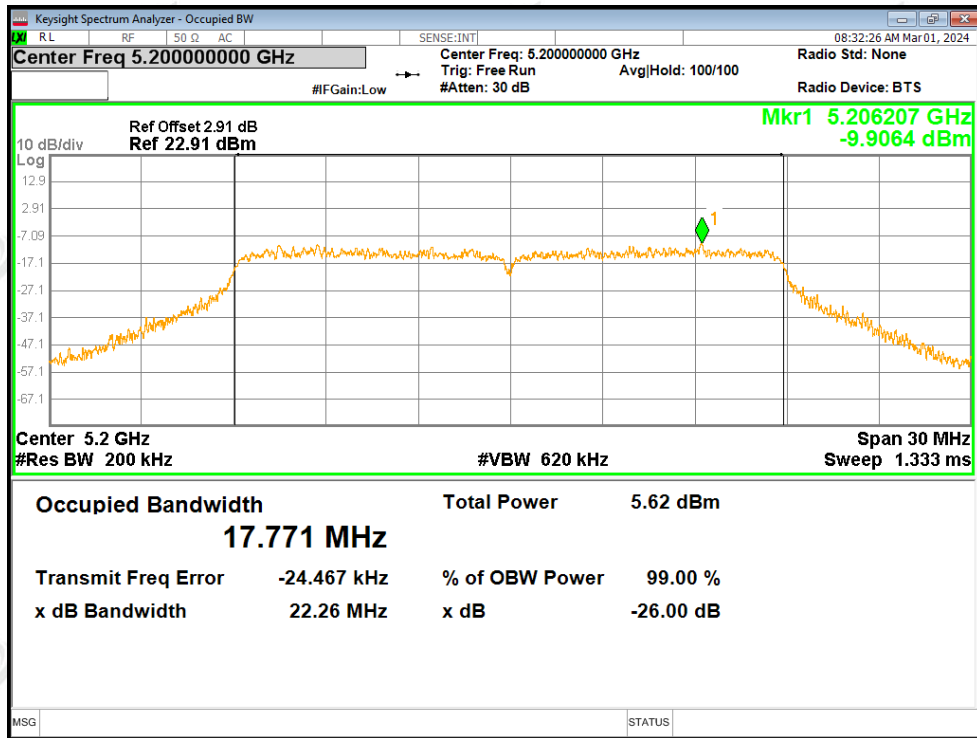


Test Graphs

OBW NVNT a 5180MHz Ant1

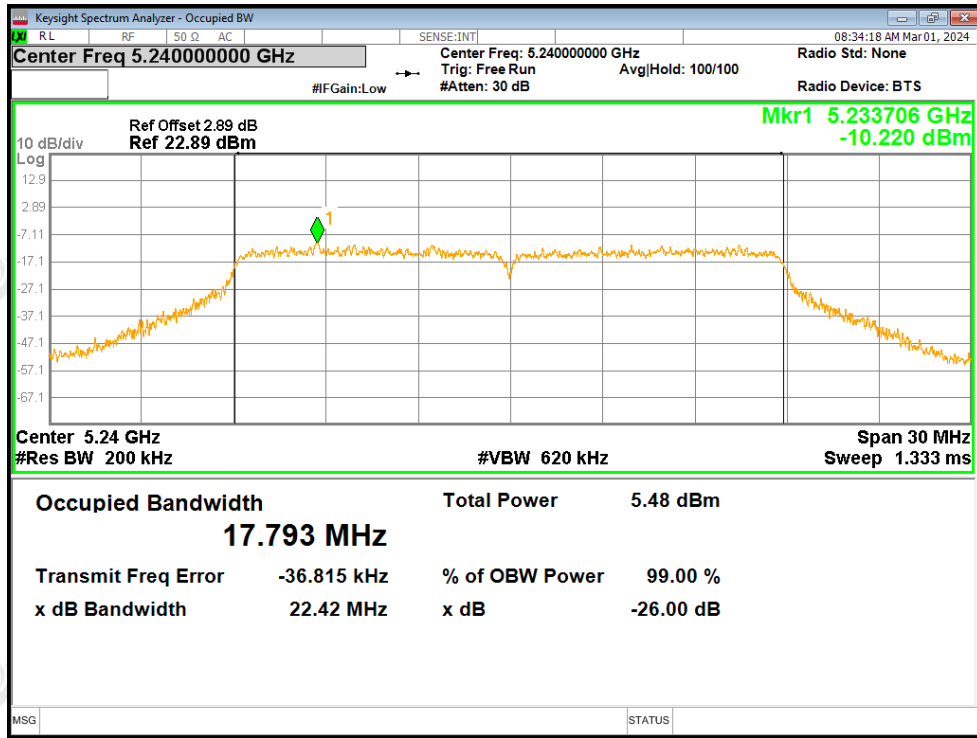


OBW NVNT a 5200MHz Ant1

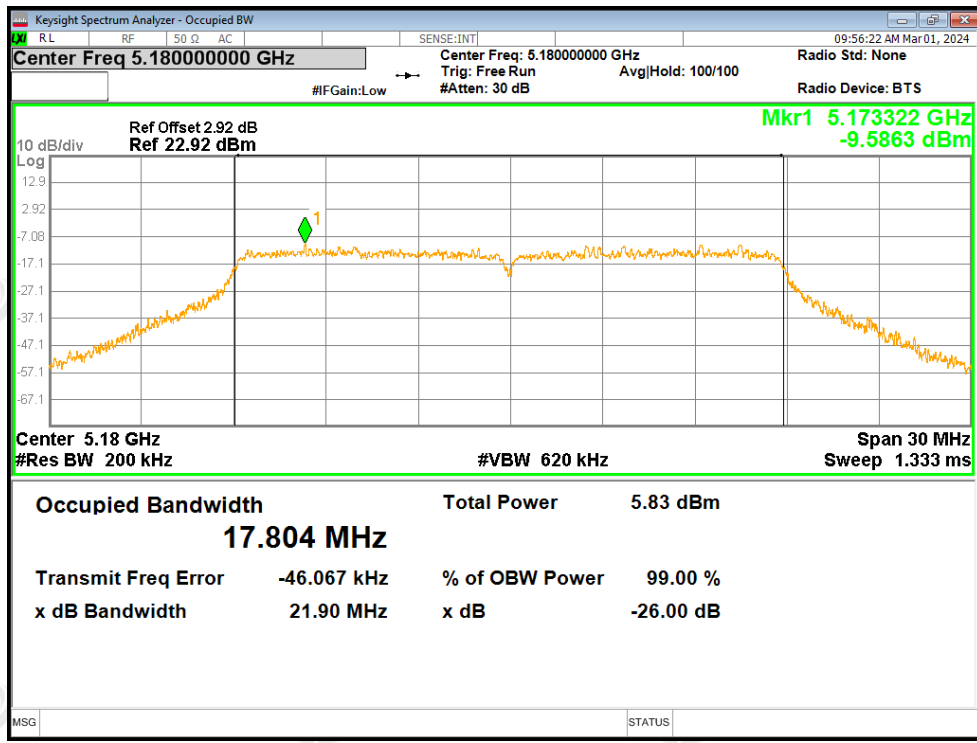




OBW NVNT a 5240MHz Ant1

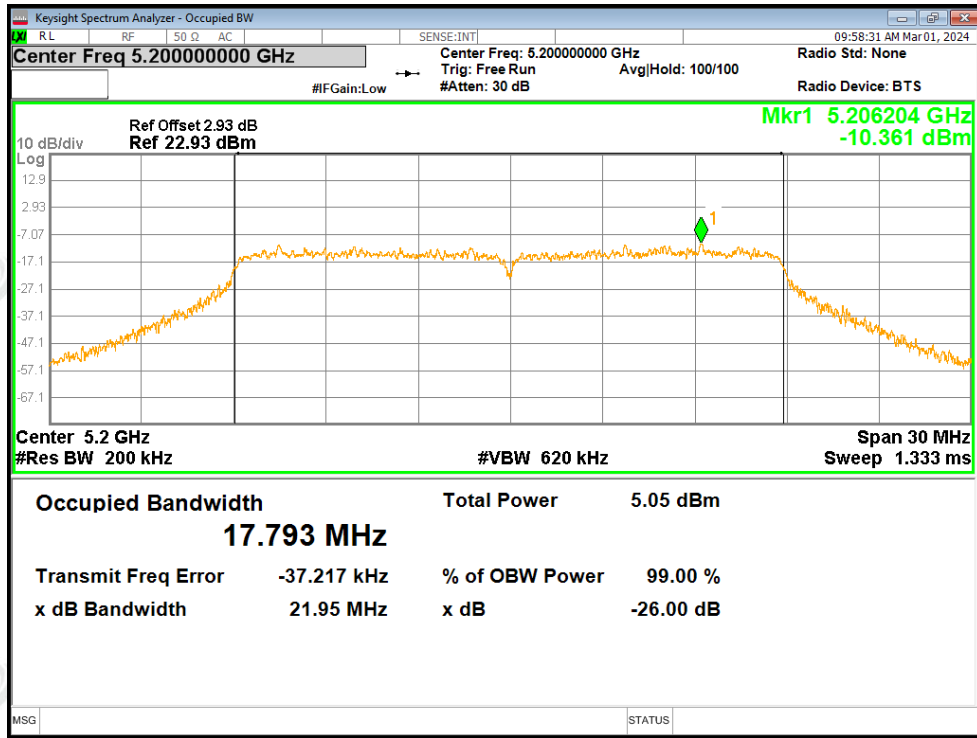


OBW NVNT a 5180MHz Ant2

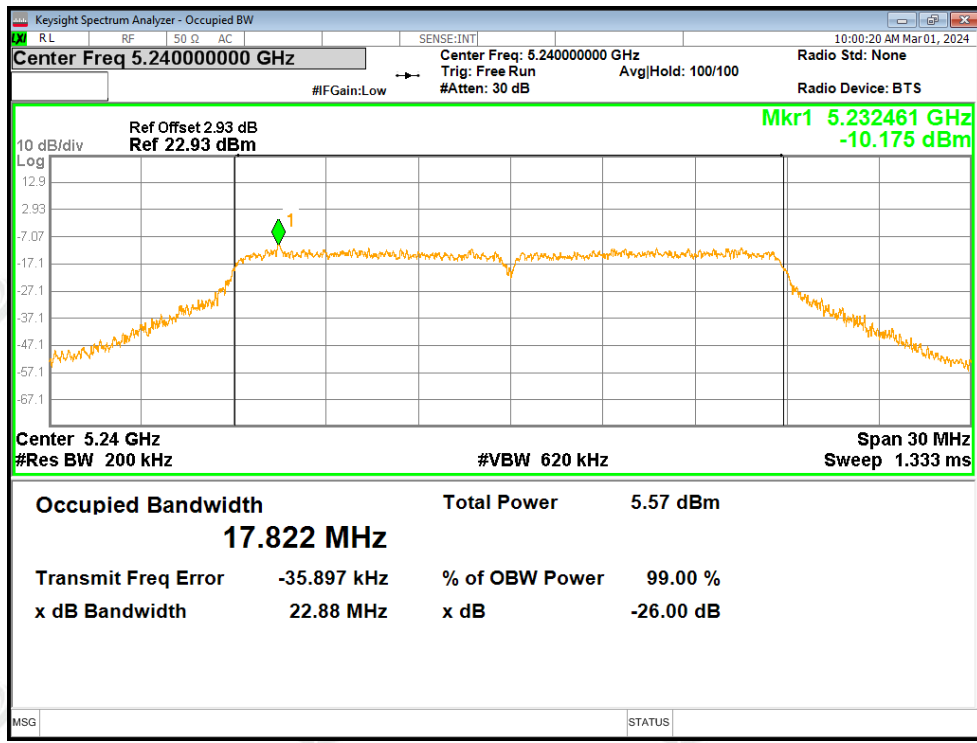




OBW NVNT a 5200MHz Ant2

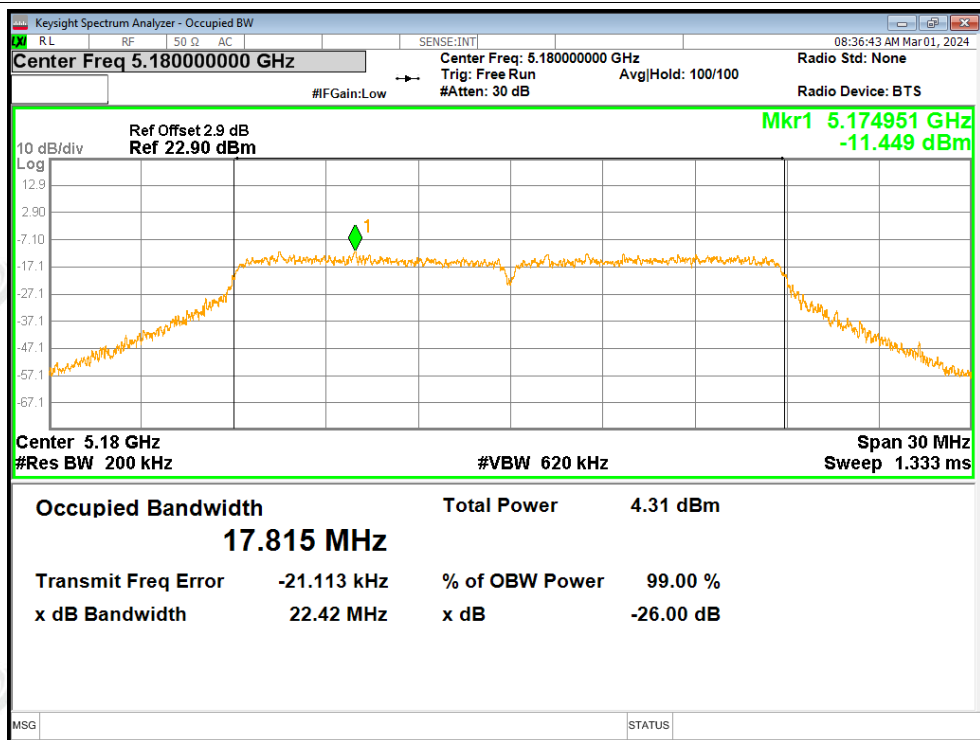


OBW NVNT a 5240MHz Ant2

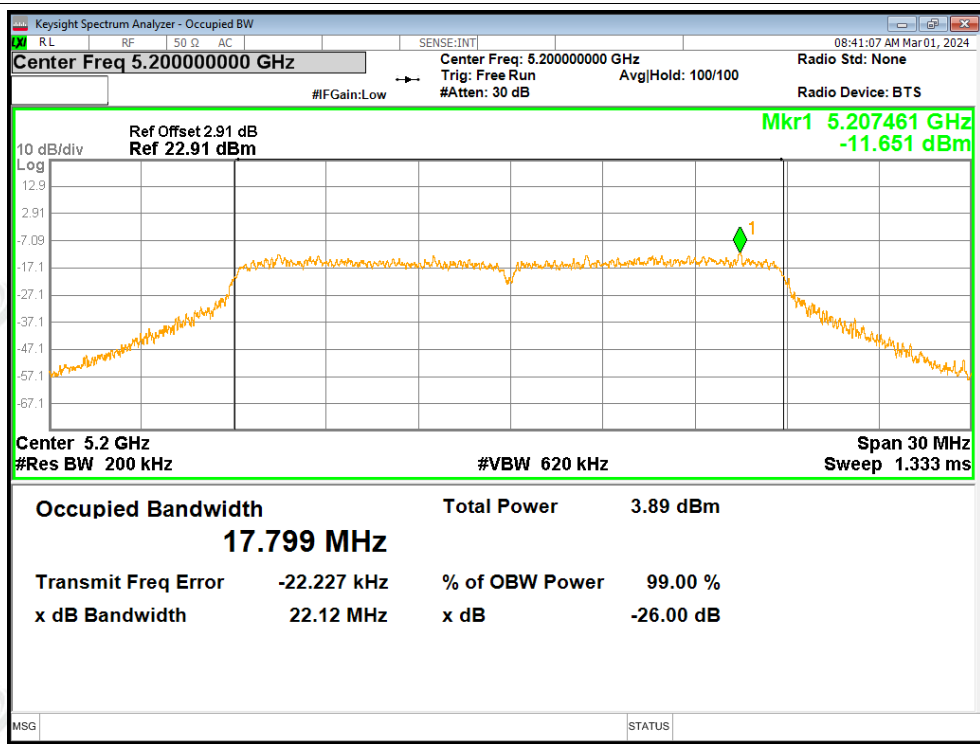




OBW NVNT n20 5180MHz Ant1

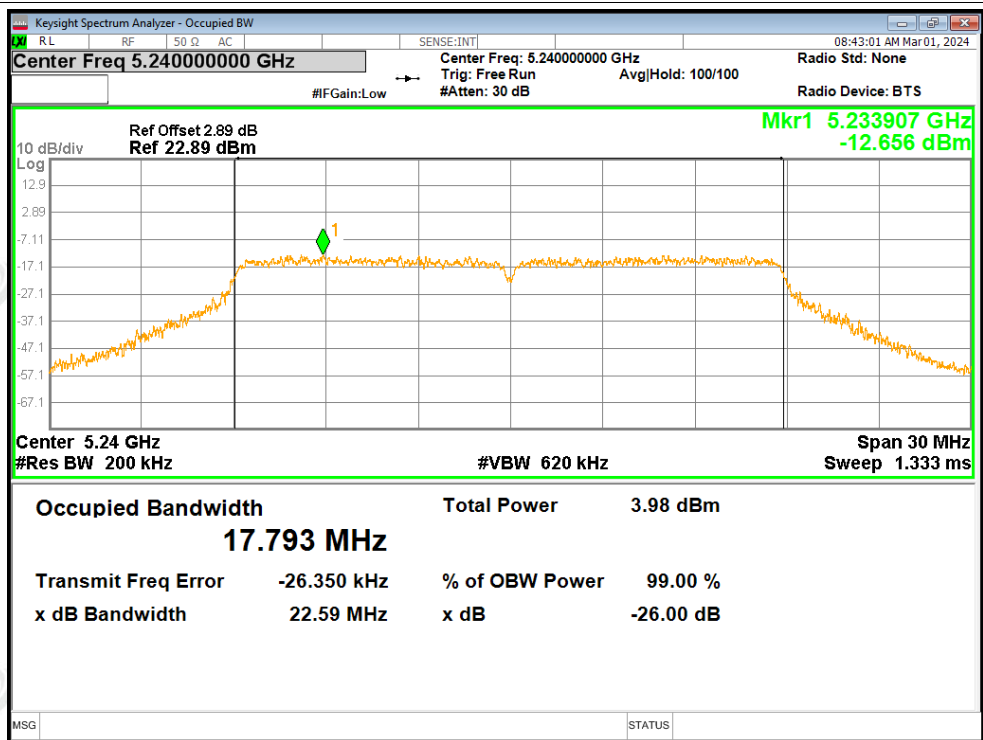


OBW NVNT n20 5200MHz Ant1

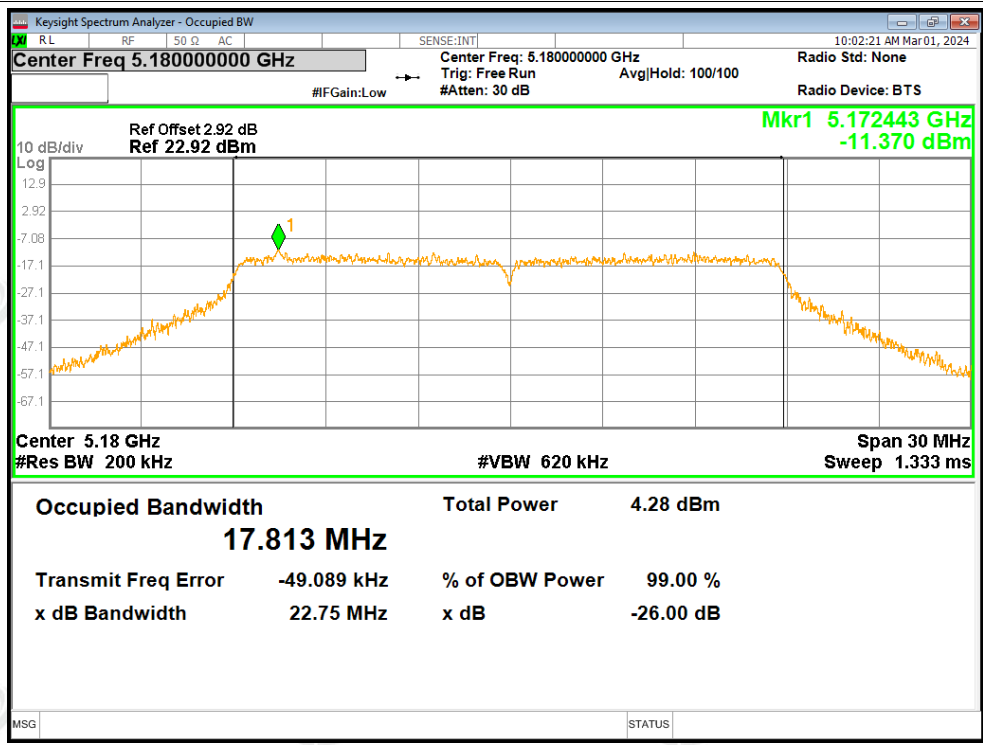




OBW NVNT n20 5240MHz Ant1

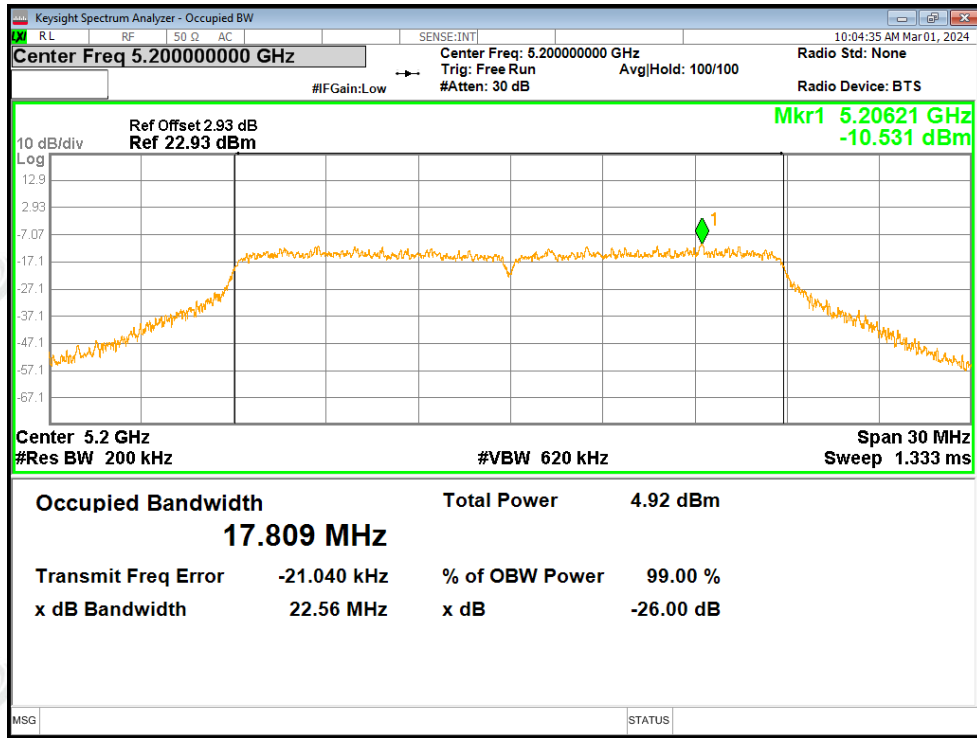


OBW NVNT n20 5180MHz Ant2

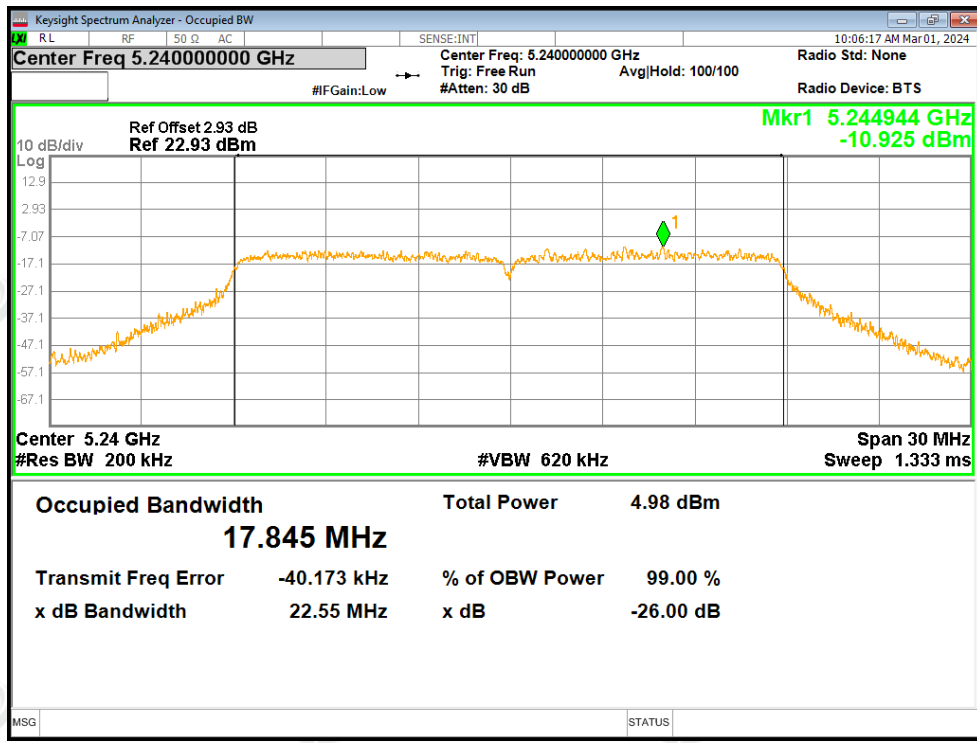




OBW NVNT n20 5200MHz Ant2

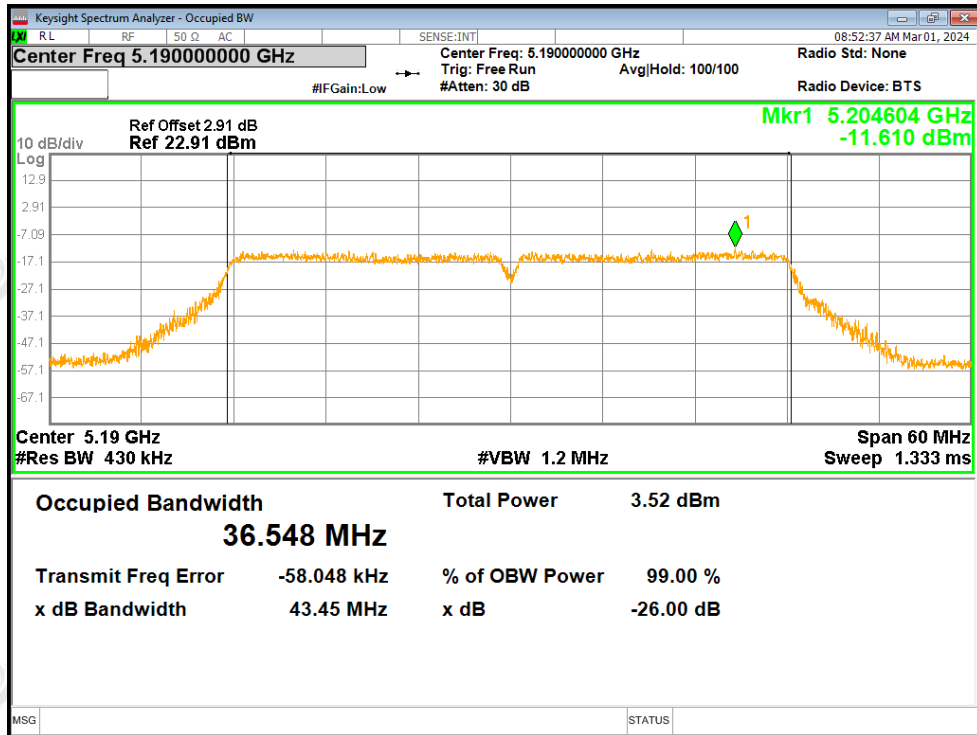


OBW NVNT n20 5240MHz Ant2

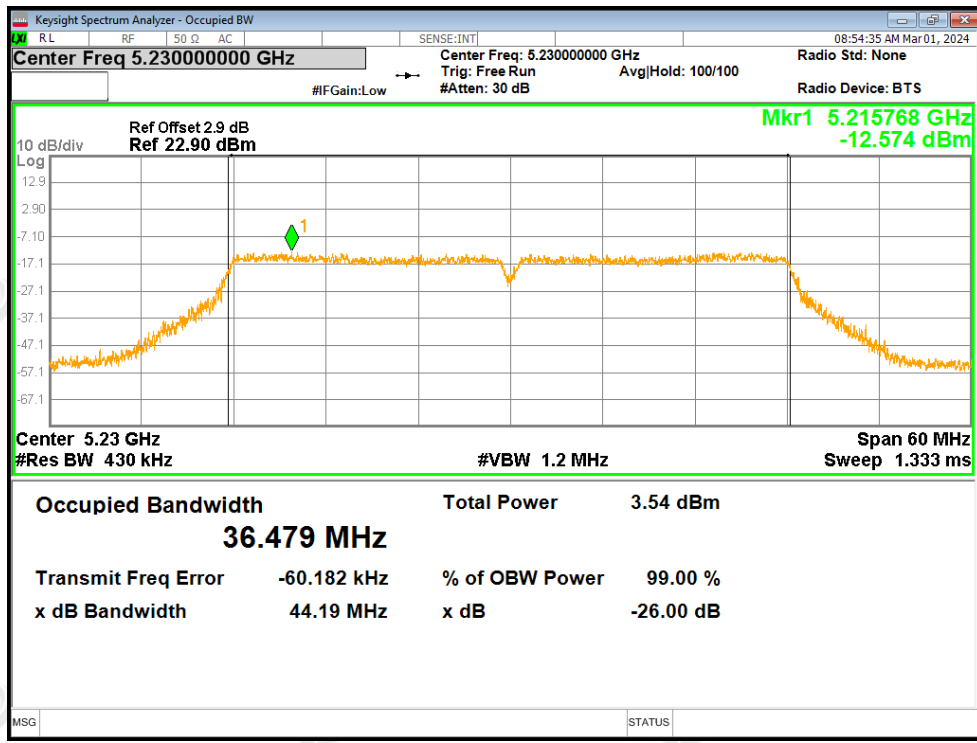




OBW NVNT n40 5190MHz Ant1

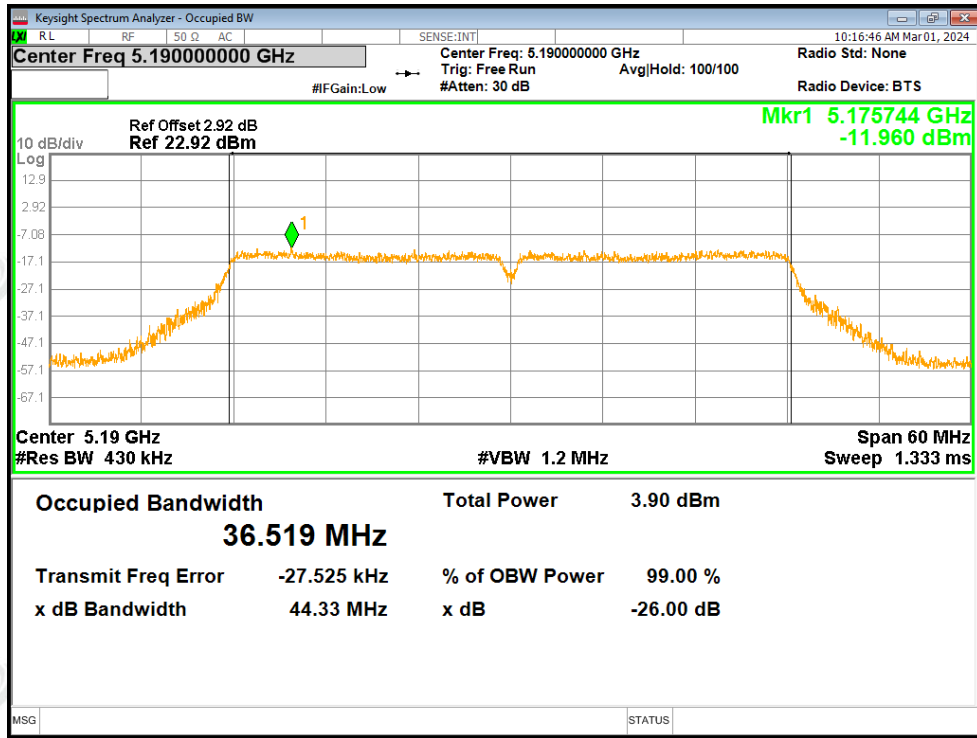


OBW NVNT n40 5230MHz Ant1

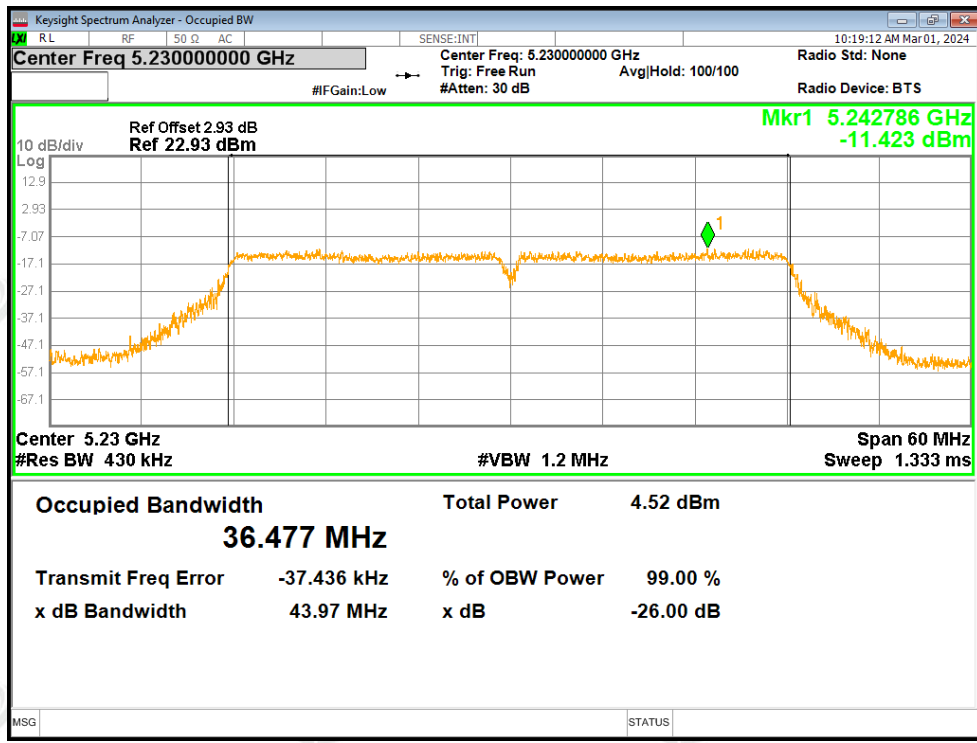




OBW NVNT n40 5190MHz Ant2

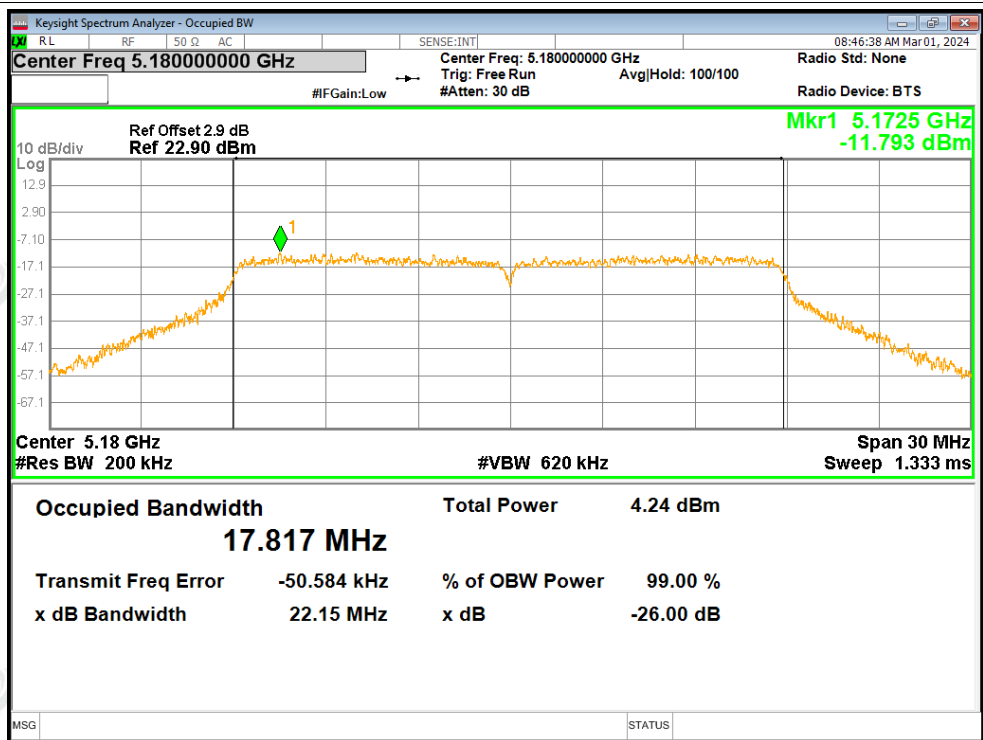


OBW NVNT n40 5230MHz Ant2

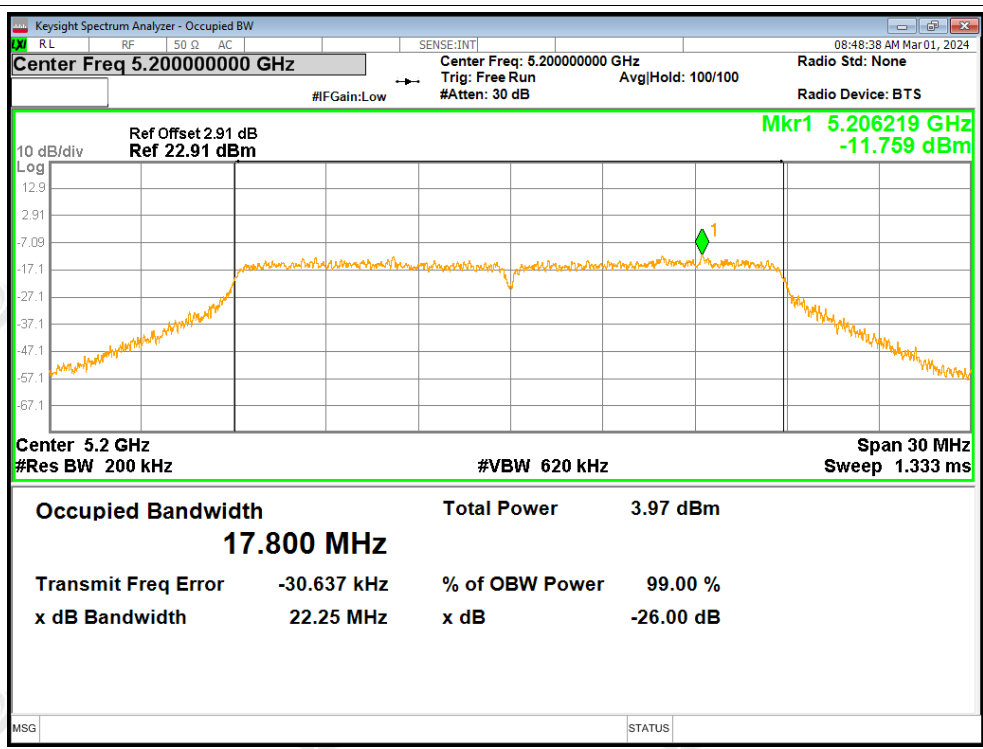




OBW NVNT ac20 5180MHz Ant1

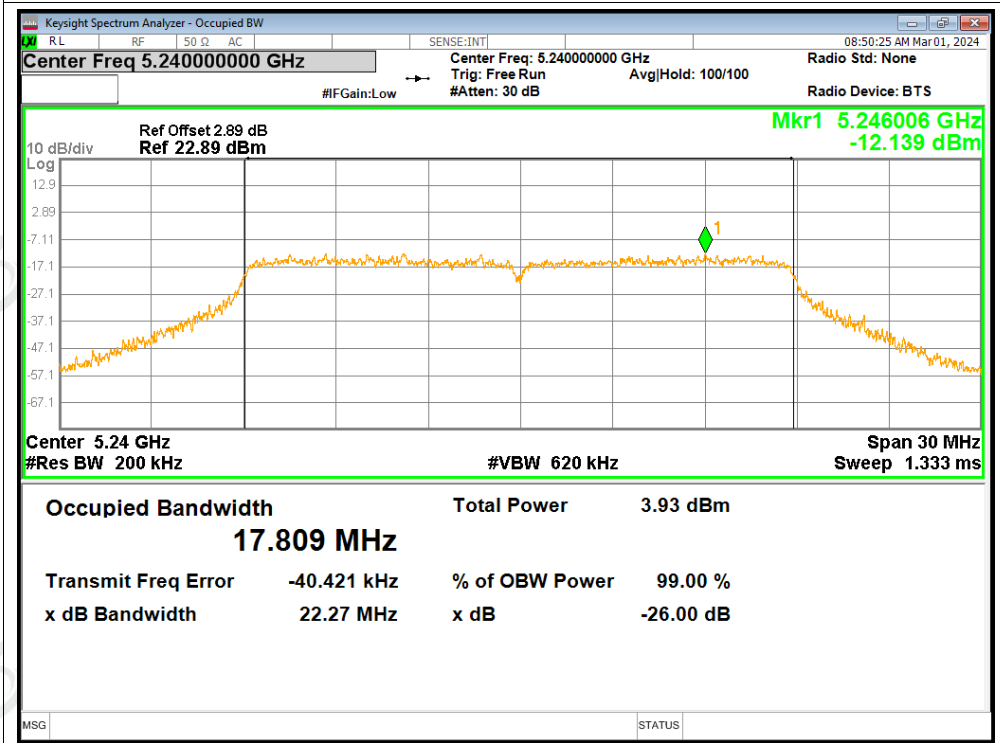


OBW NVNT ac20 5200MHz Ant1

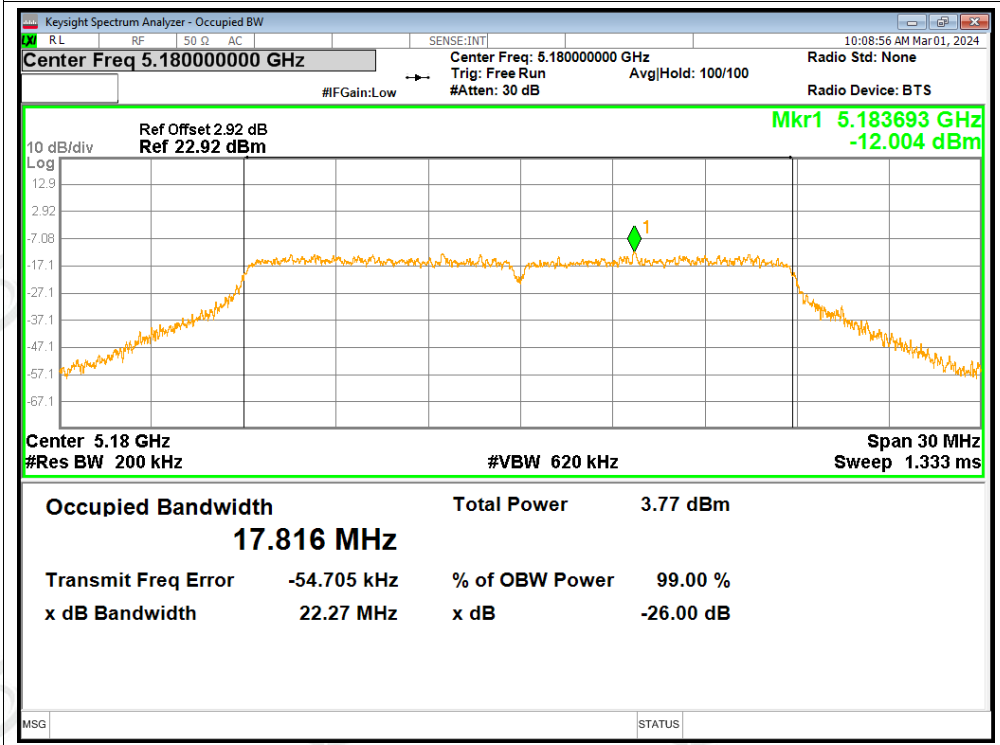




OBW NVNT ac20 5240MHz Ant1

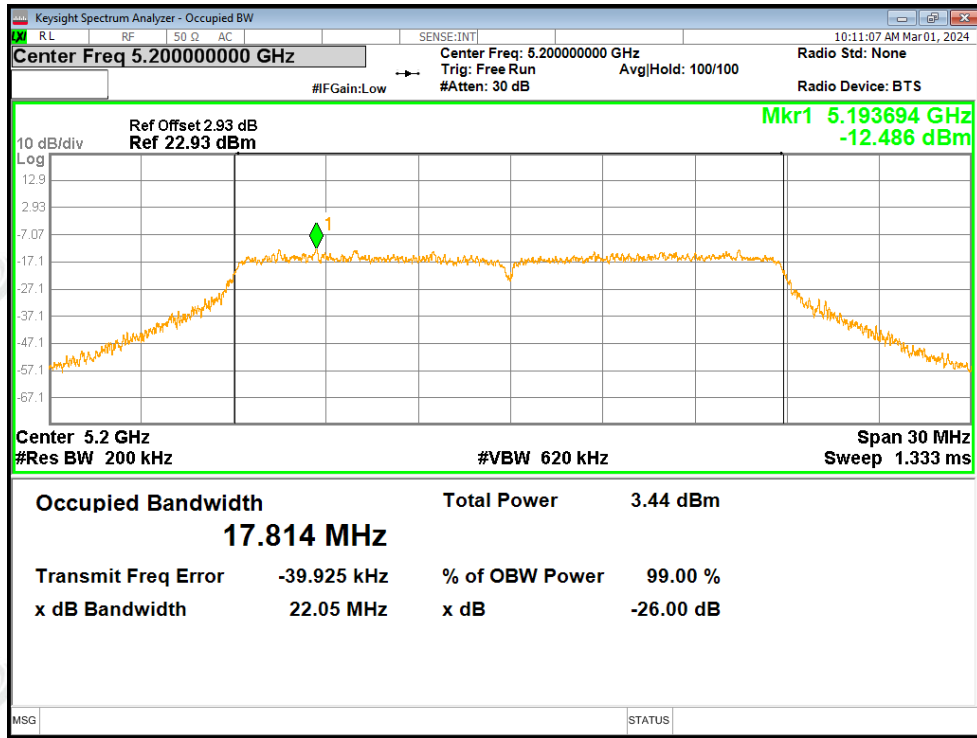


OBW NVNT ac20 5180MHz Ant2

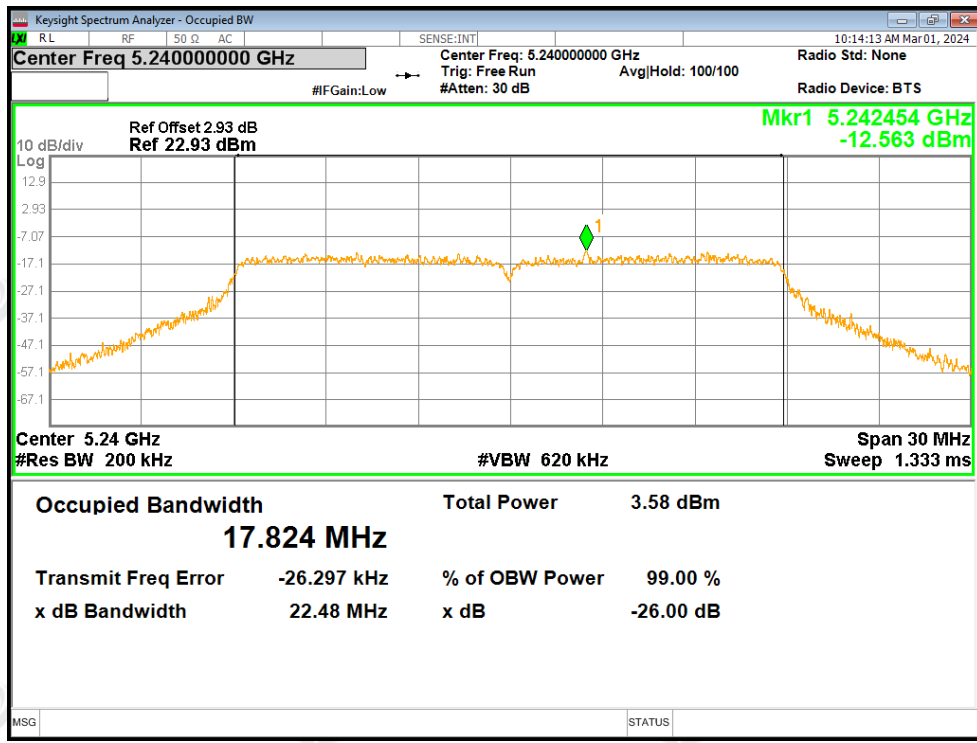




OBW NVNT ac20 5200MHz Ant2

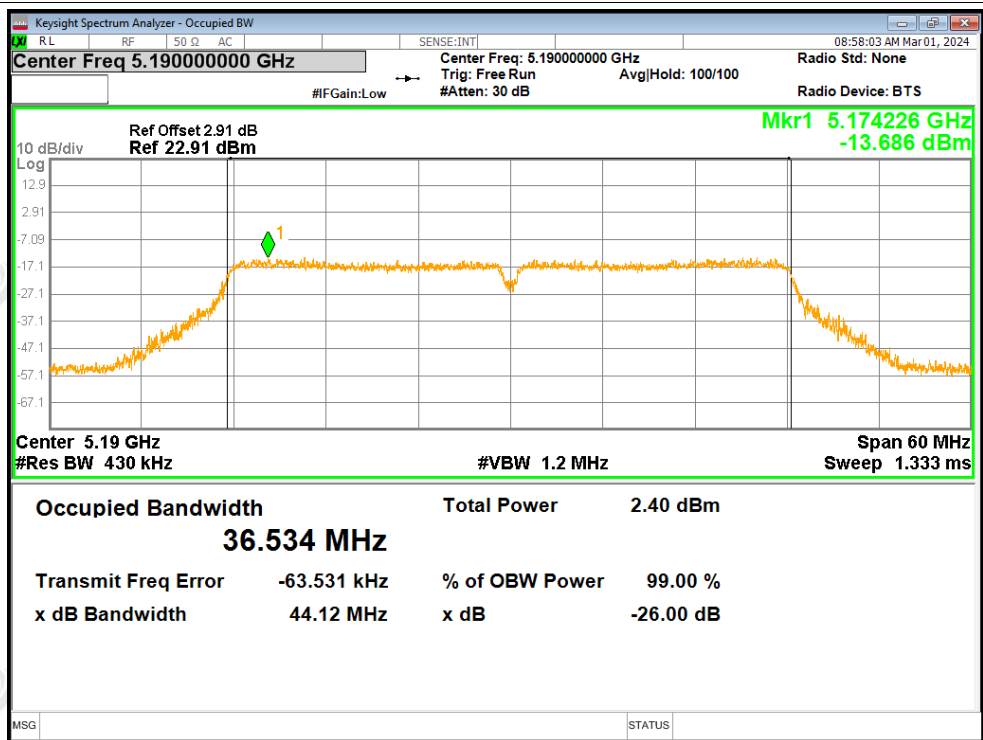


OBW NVNT ac20 5240MHz Ant2

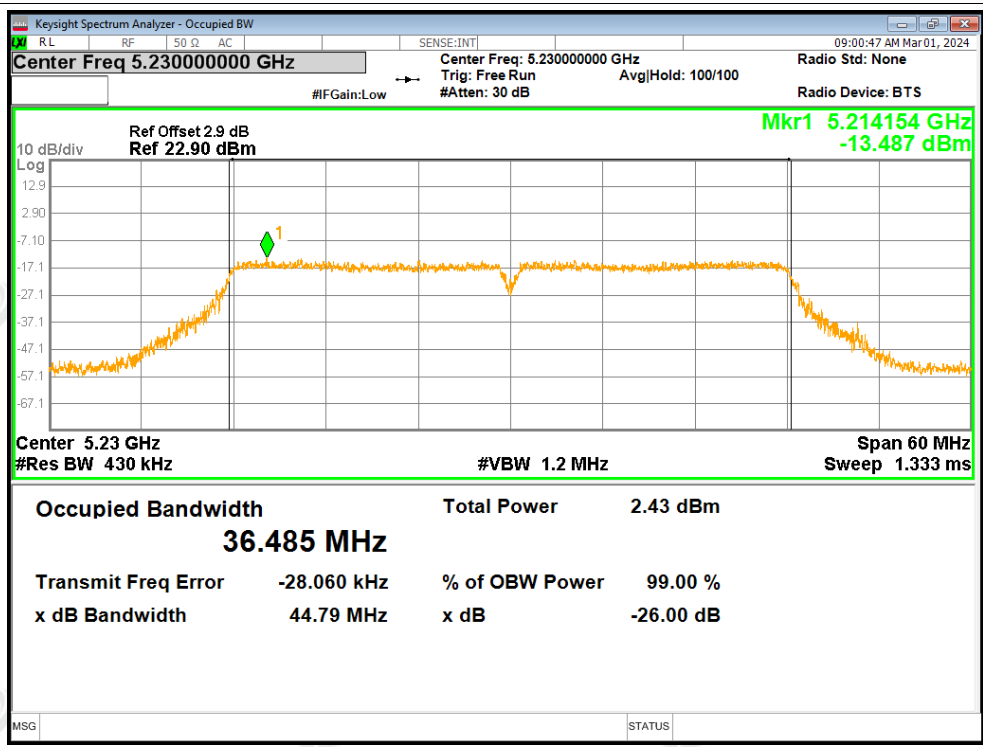




OBW NVNT ac40 5190MHz Ant1

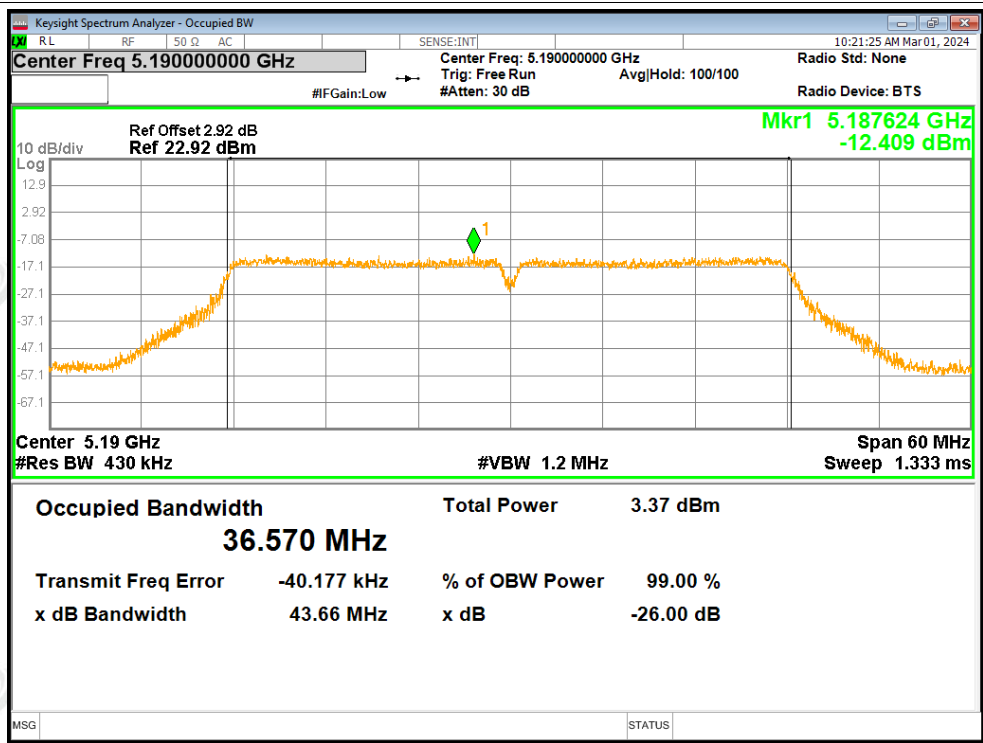


OBW NVNT ac40 5230MHz Ant1

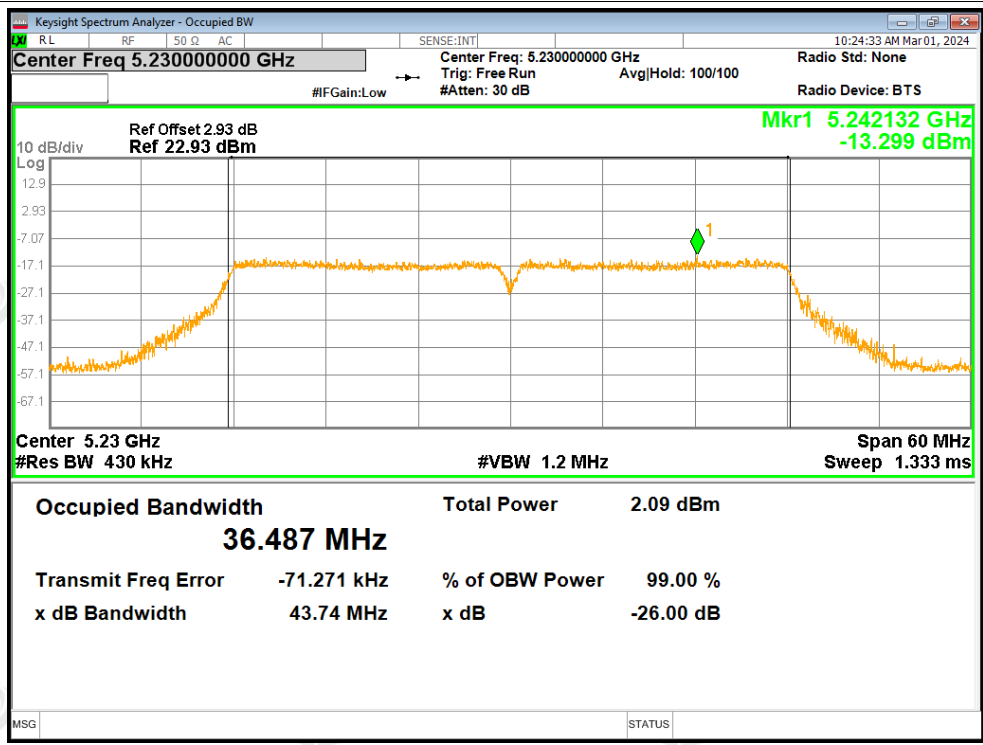




OBW NVNT ac40 5190MHz Ant2

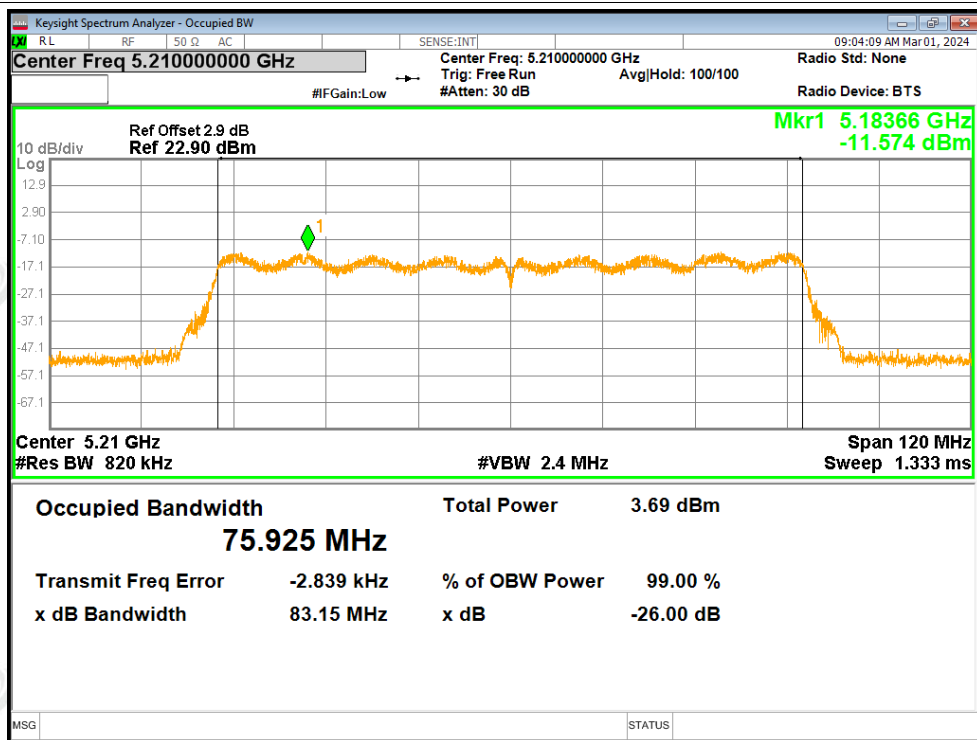


OBW NVNT ac40 5230MHz Ant2

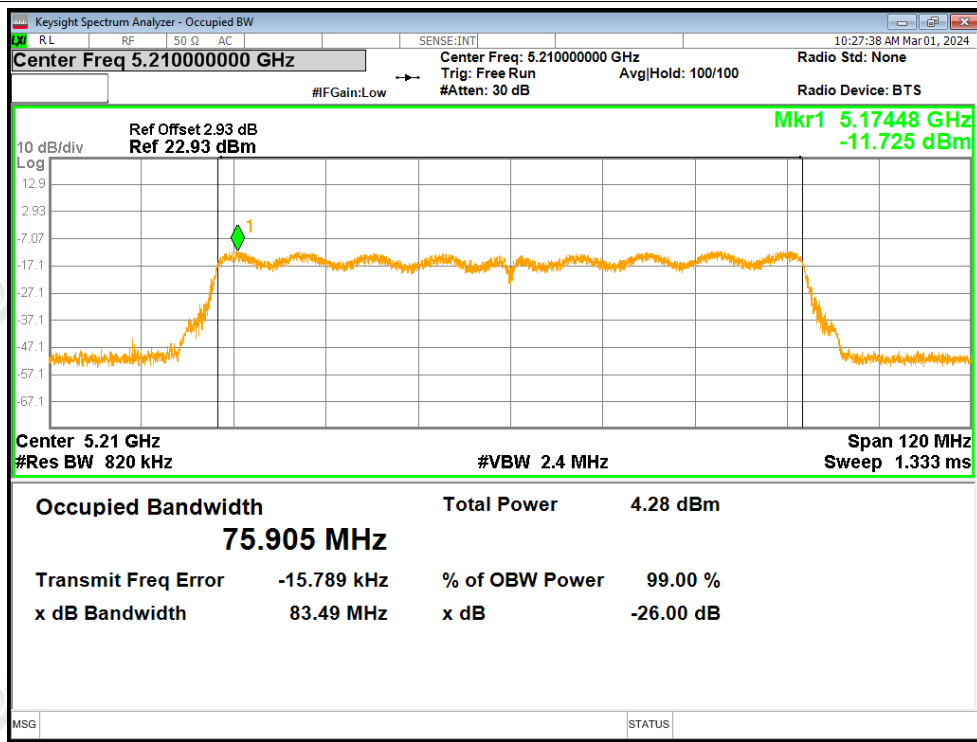




OBW NVNT ac80 5210MHz Ant1



OBW NVNT ac80 5210MHz Ant2



**B5. Maximum Power Spectral Density Level**

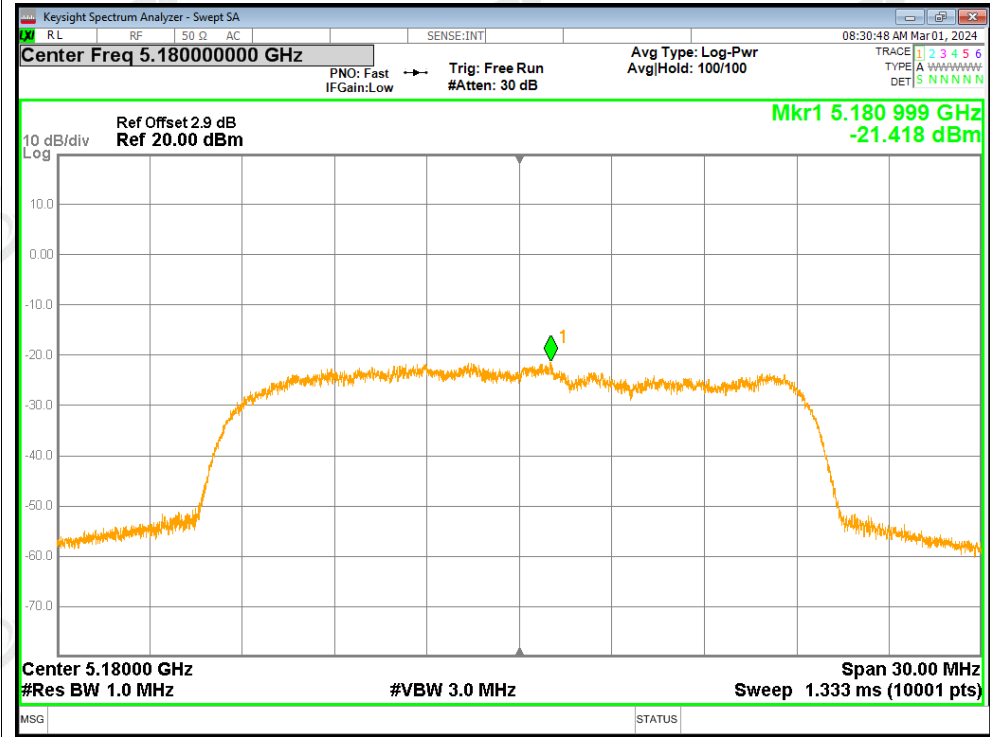
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-21.42	11	Pass
NVNT	a	5200	Ant1	-19.16	11	Pass
NVNT	a	5240	Ant1	-19.79	11	Pass
NVNT	a	5180	Ant2	-18.78	11	Pass
NVNT	a	5200	Ant2	-18.09	11	Pass
NVNT	a	5240	Ant2	-17.4	11	Pass
NVNT	n20	5180	Ant1	-20.91	11	Pass
NVNT	n20	5200	Ant1	-20.99	11	Pass
NVNT	n20	5240	Ant1	-19.07	11	Pass
NVNT	n20	5180	Ant2	-18.8	11	Pass
NVNT	n20	5200	Ant2	-18.38	11	Pass
NVNT	n20	5240	Ant2	-17.79	11	Pass
NVNT	n40	5190	Ant1	-27.16	11	Pass
NVNT	n40	5230	Ant1	-27.51	11	Pass
NVNT	n40	5190	Ant2	-26.8	11	Pass
NVNT	n40	5230	Ant2	-30.02	11	Pass
NVNT	ac20	5180	Ant1	-18.64	11	Pass
NVNT	ac20	5200	Ant1	-20.12	11	Pass
NVNT	ac20	5240	Ant1	-20.35	11	Pass
NVNT	ac20	5180	Ant2	-18.93	11	Pass
NVNT	ac20	5200	Ant2	-19.56	11	Pass
NVNT	ac20	5240	Ant2	-18.52	11	Pass
NVNT	ac40	5190	Ant1	-36.77	11	Pass
NVNT	ac40	5230	Ant1	-28.83	11	Pass
NVNT	ac40	5190	Ant2	-27.83	11	Pass
NVNT	ac40	5230	Ant2	-32.63	11	Pass
NVNT	ac80	5210	Ant1	-41.84	11	Pass
NVNT	ac80	5210	Ant2	-37.85	11	Pass
NVNT	n20	5180	MIMO	-16.72	11	Pass
NVNT	n20	5200	MIMO	-16.48	11	Pass
NVNT	n20	5240	MIMO	-15.37	11	Pass
NVNT	n40	5190	MIMO	-23.97	11	Pass
NVNT	n40	5230	MIMO	-25.58	11	Pass
NVNT	ac20	5200	MIMO	-15.77	11	Pass
NVNT	ac20	5240	MIMO	-16.82	11	Pass
NVNT	ac20	5180	MIMO	-16.33	11	Pass
NVNT	ac40	5190	MIMO	-27.31	11	Pass
NVNT	ac40	5230	MIMO	-27.32	11	Pass
NVNT	ac80	5210	MIMO	-36.39	11	Pass



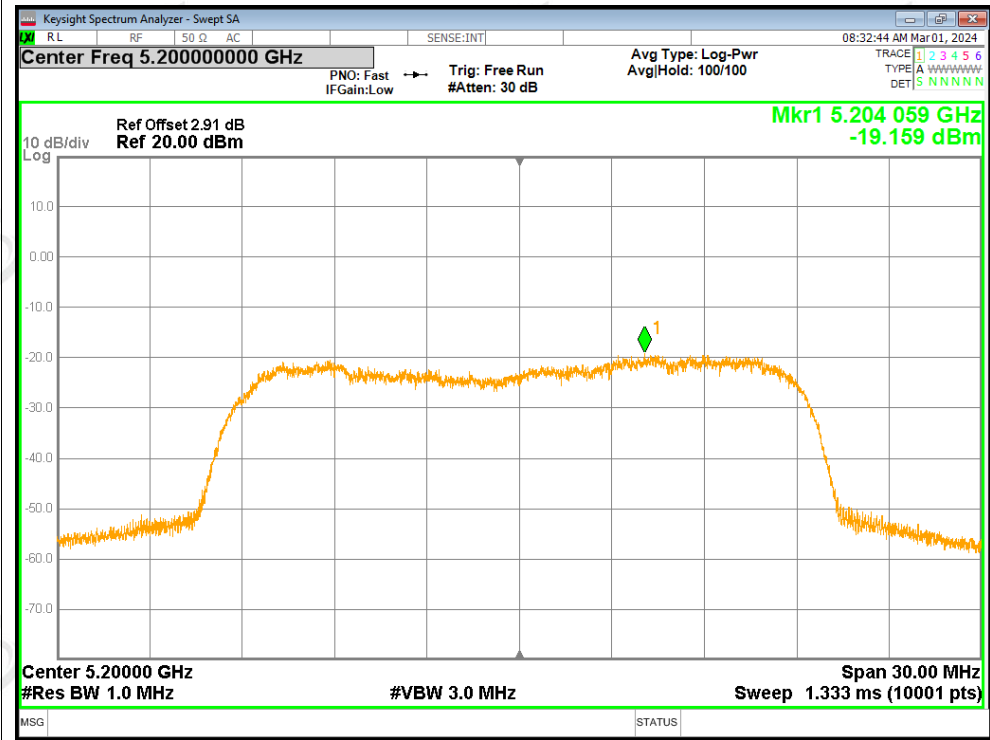


Test Graphs

PSD NVNT a 5180MHz Ant1

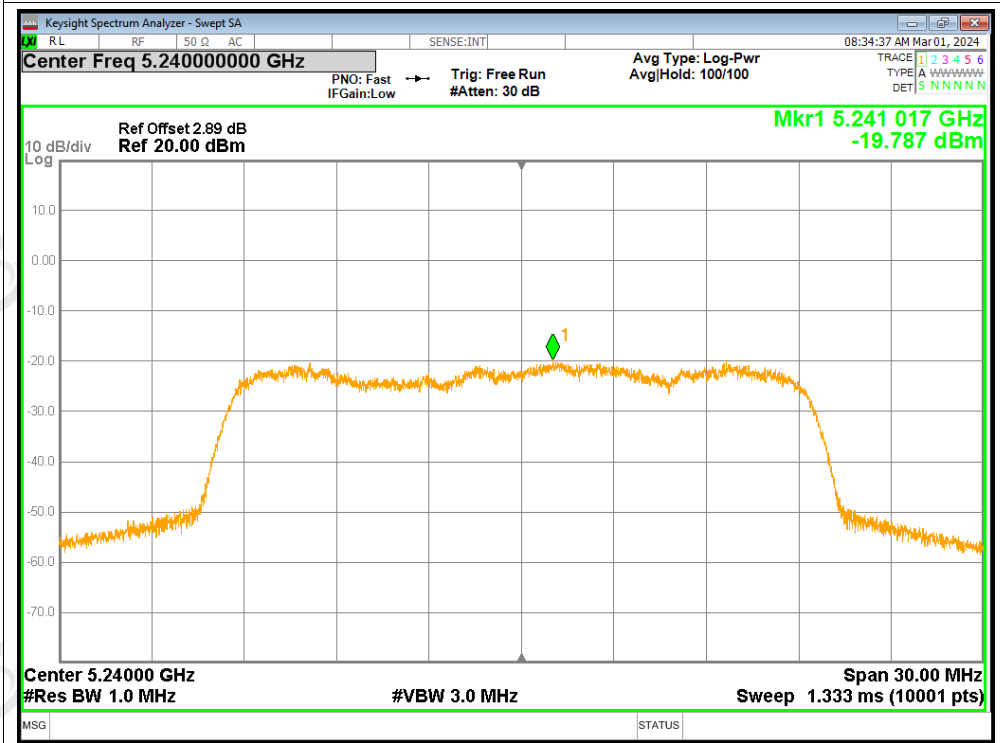


PSD NVNT a 5200MHz Ant1

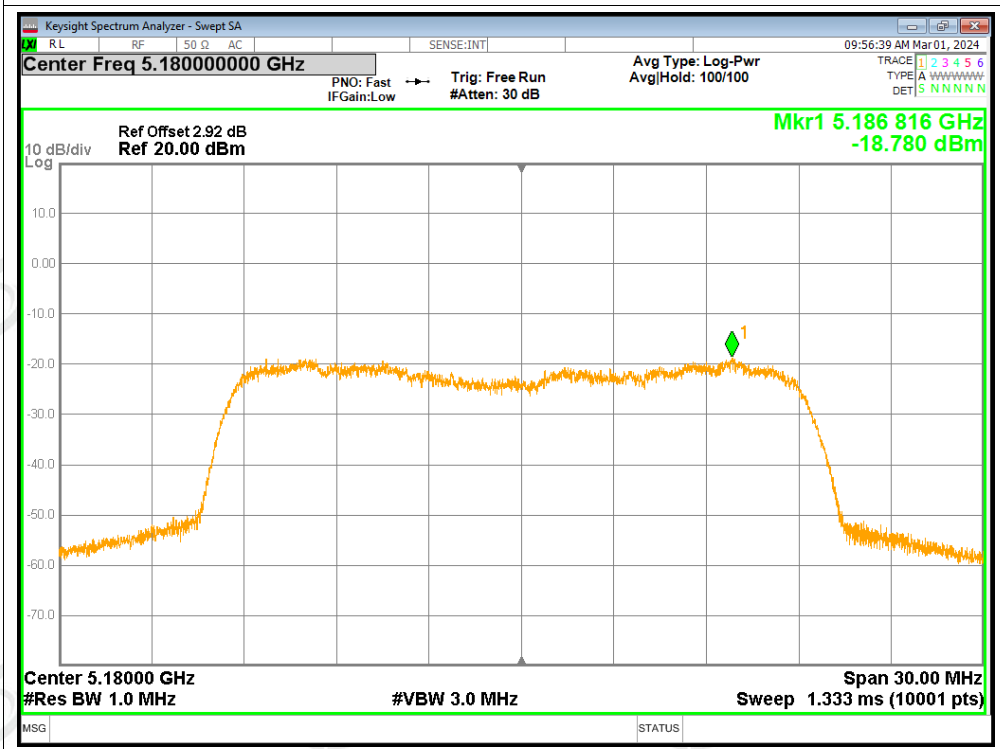




PSD NVNT a 5240MHz Ant1

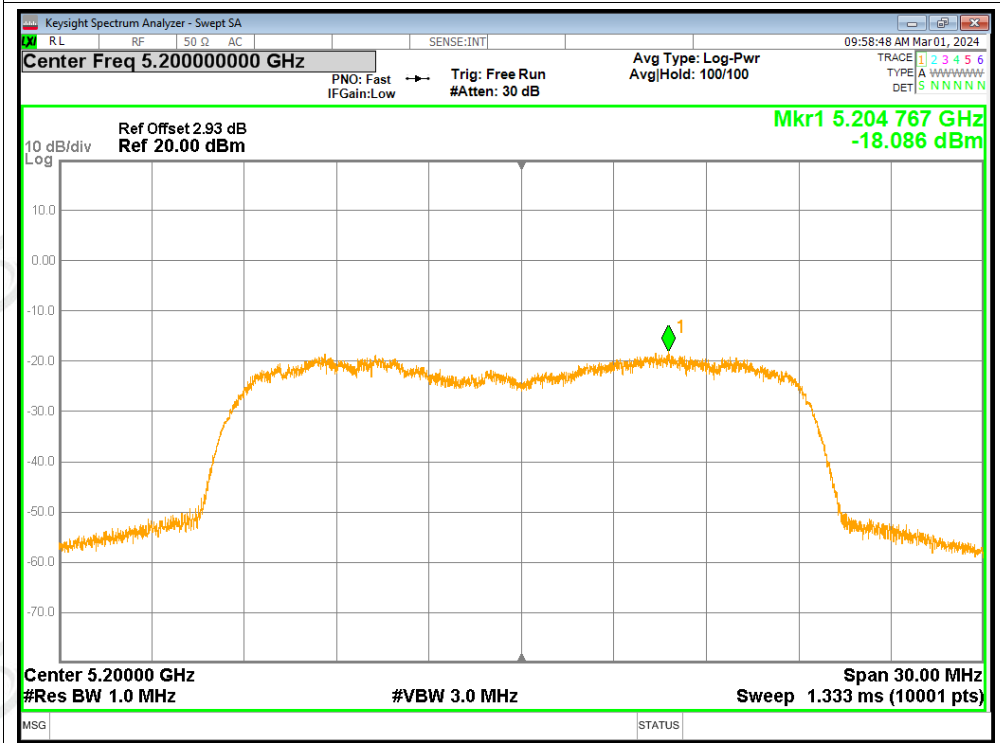


PSD NVNT a 5180MHz Ant2

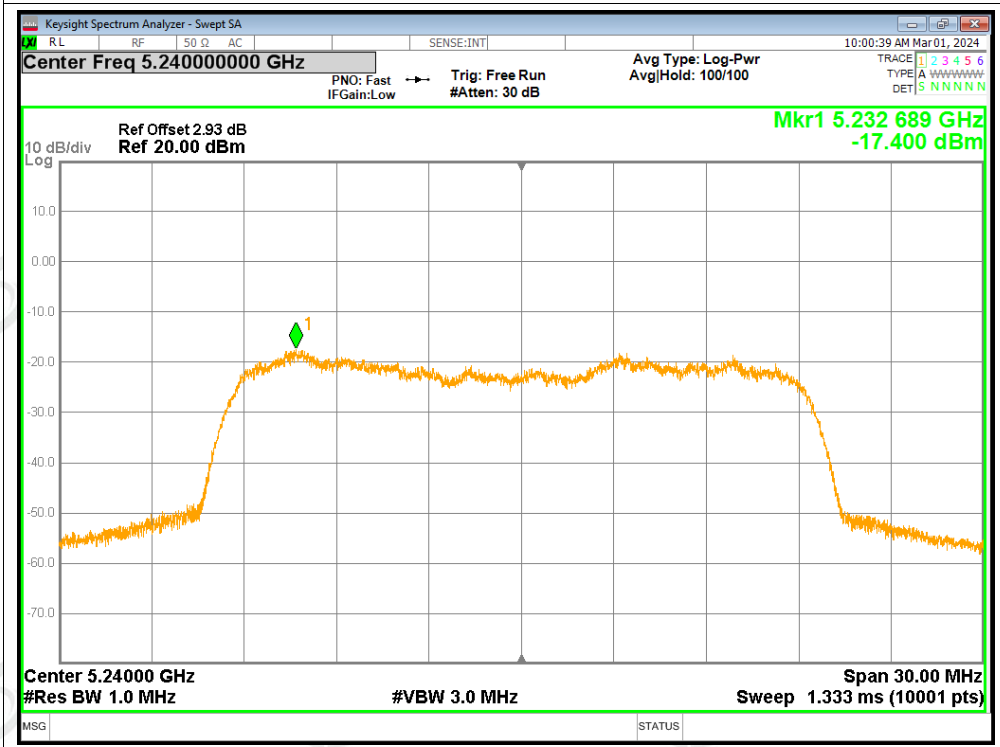




PSD NVNT a 5200MHz Ant2

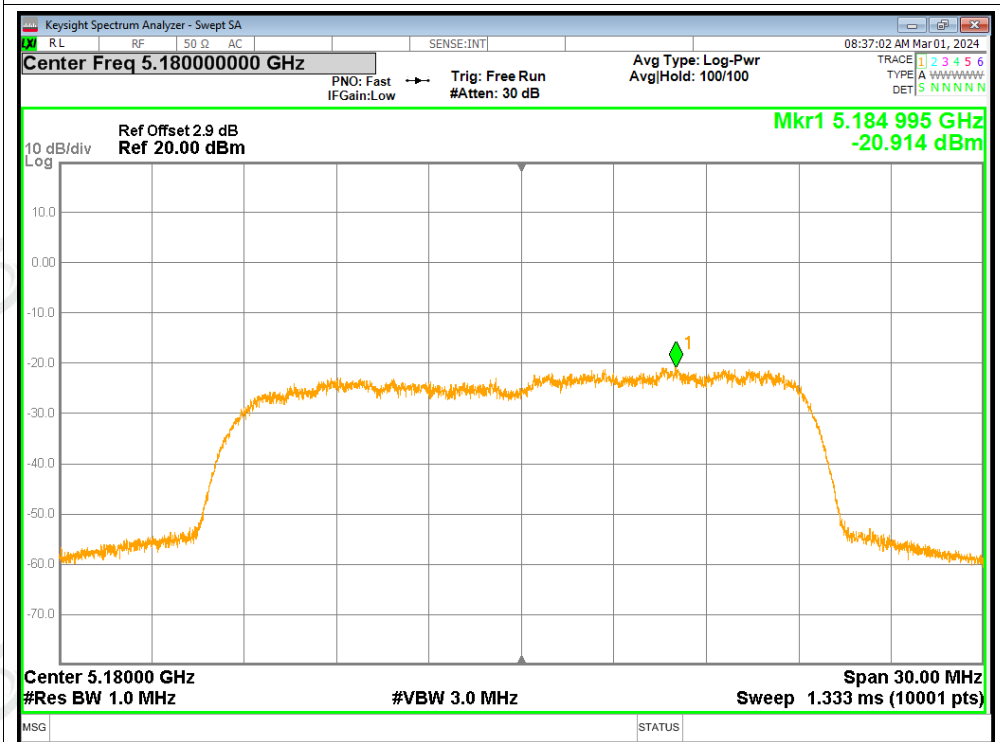


PSD NVNT a 5240MHz Ant2

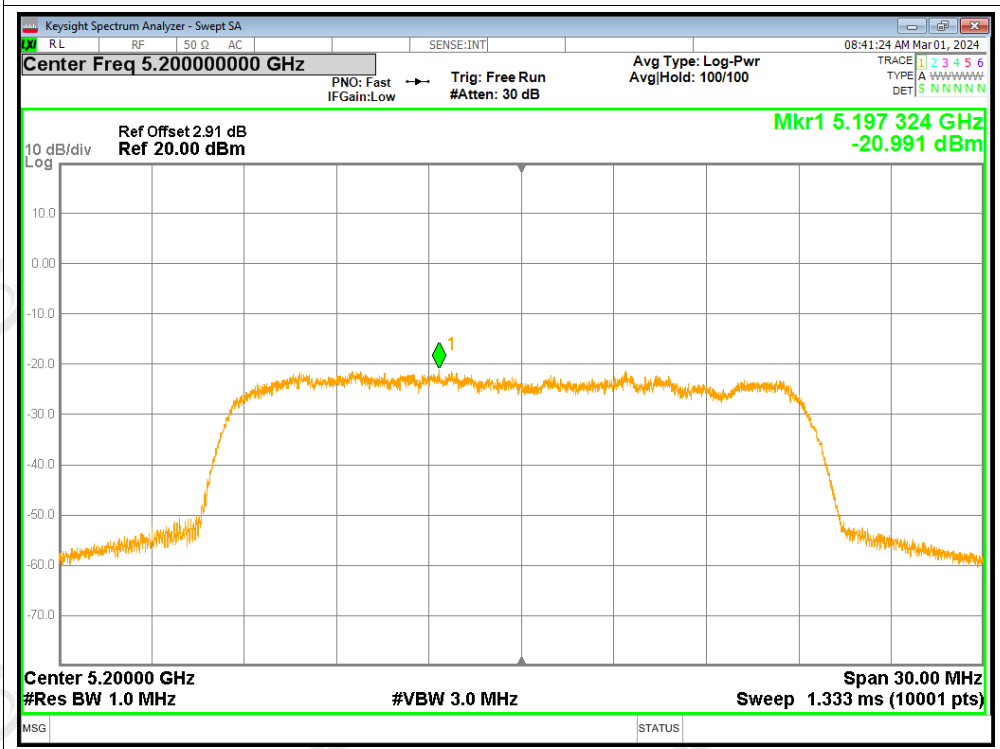




PSD NVNT n20 5180MHz Ant1

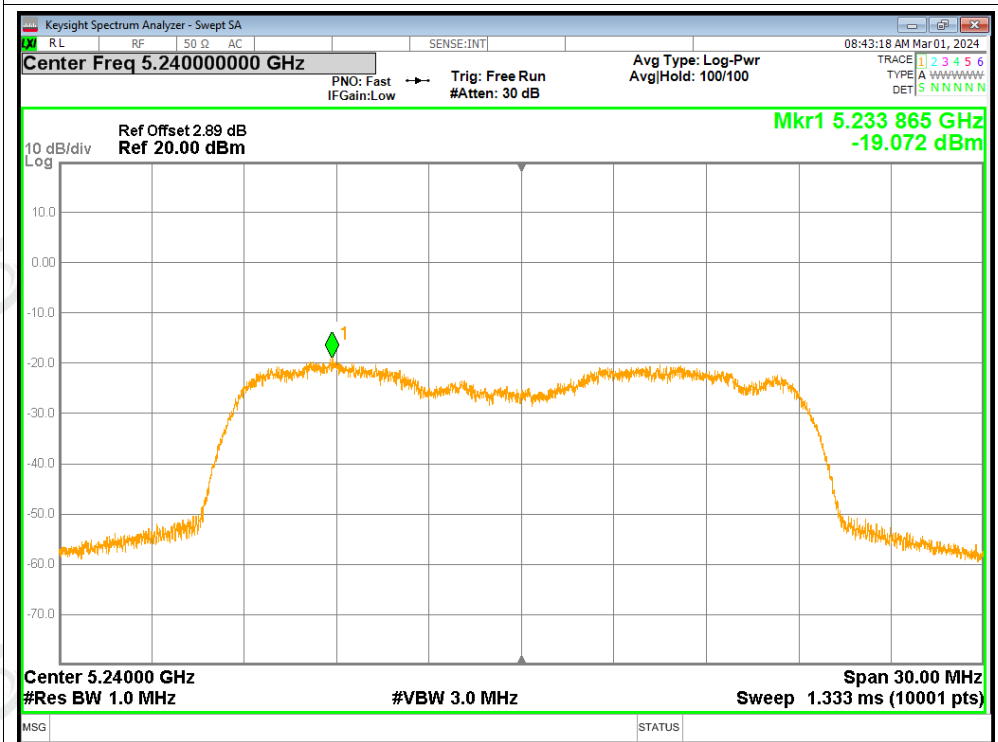


PSD NVNT n20 5200MHz Ant1

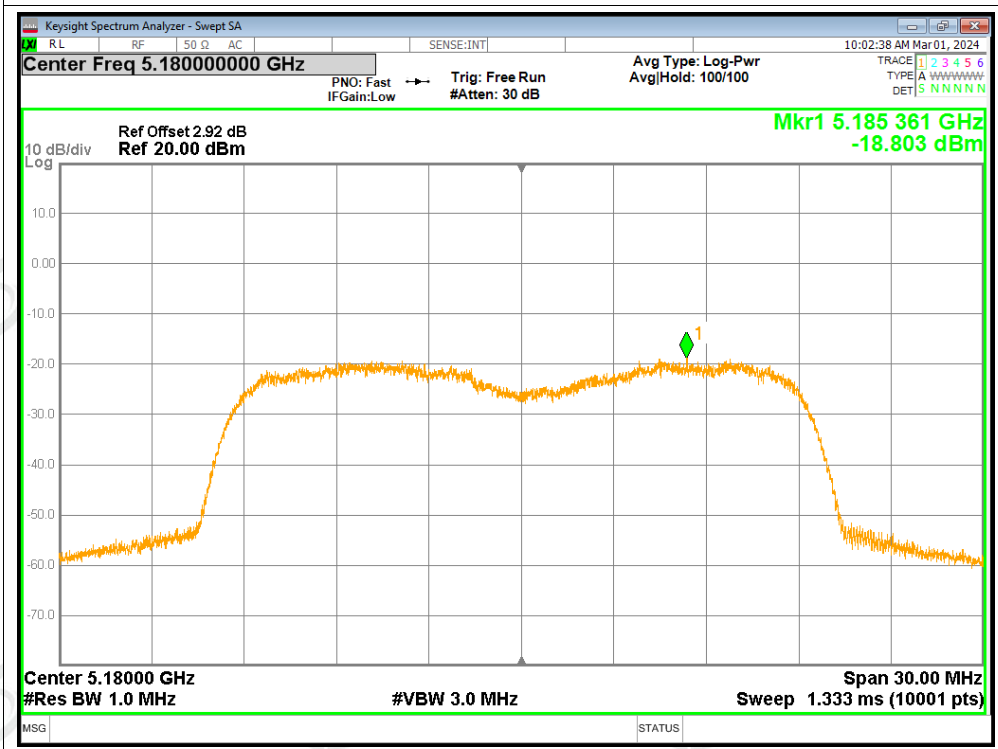




PSD NVNT n20 5240MHz Ant1

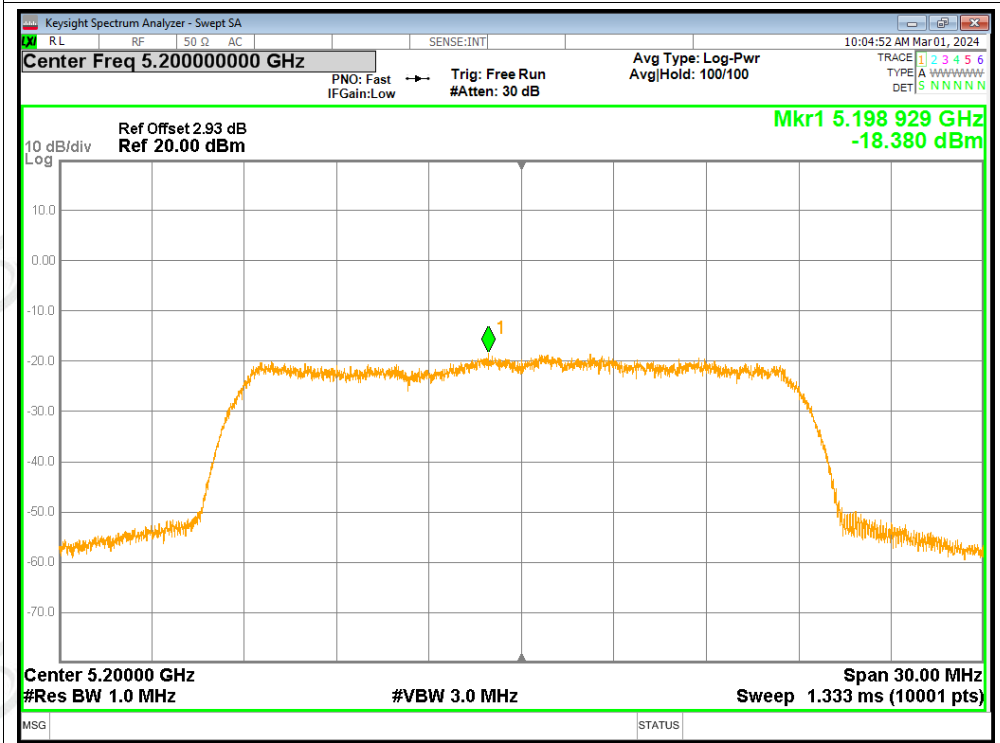


PSD NVNT n20 5180MHz Ant2

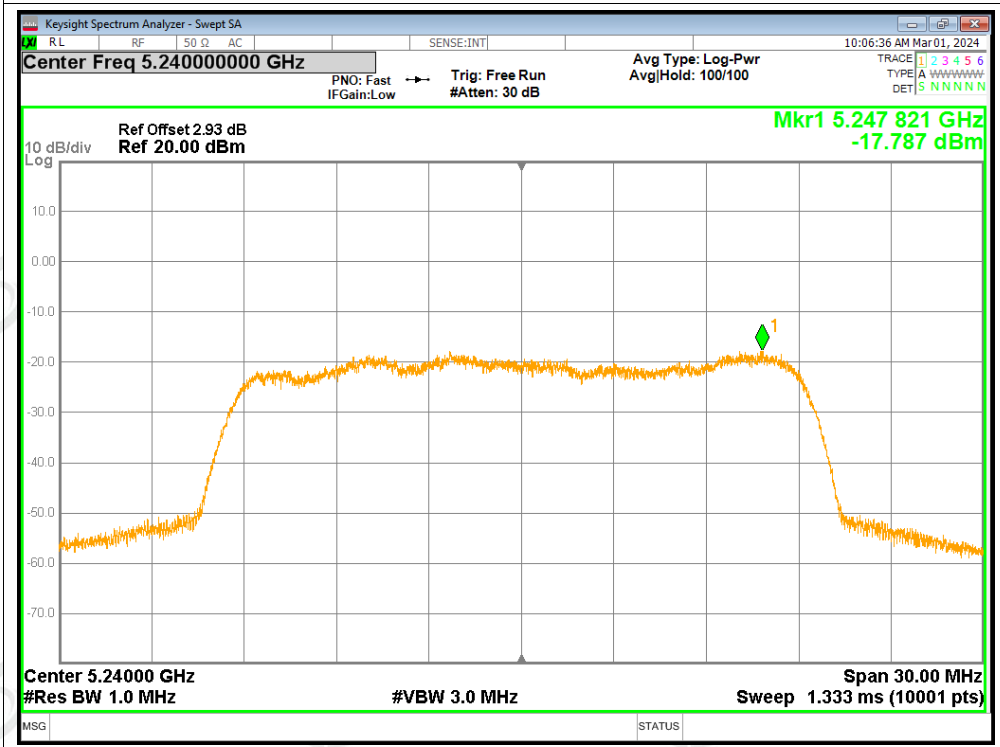




PSD NVNT n20 5200MHz Ant2

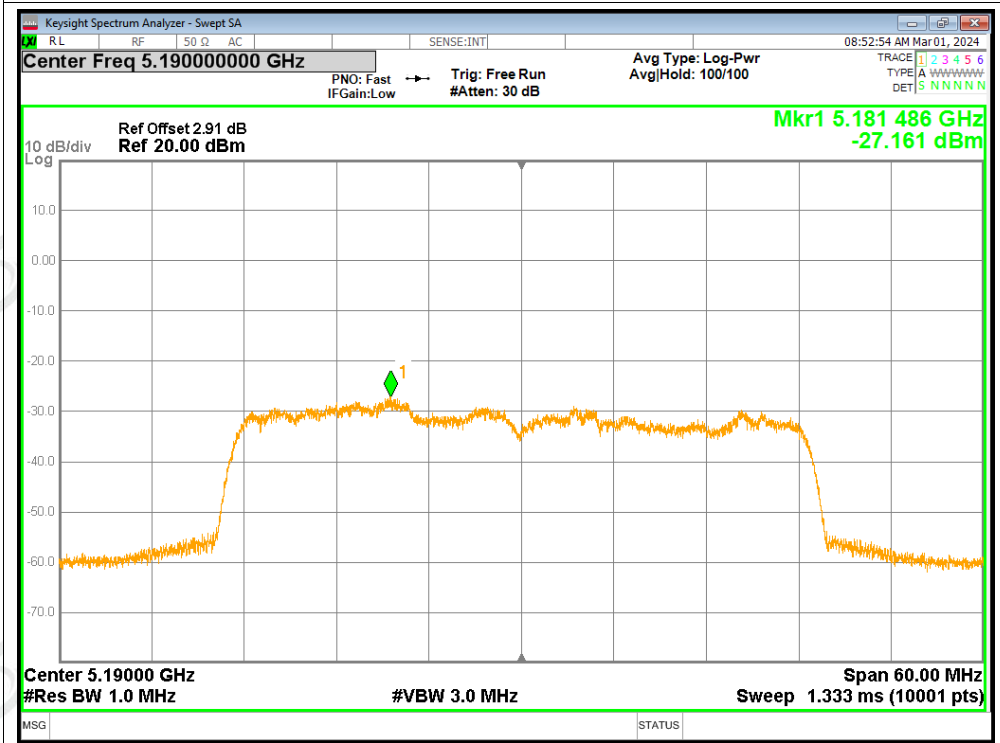


PSD NVNT n20 5240MHz Ant2

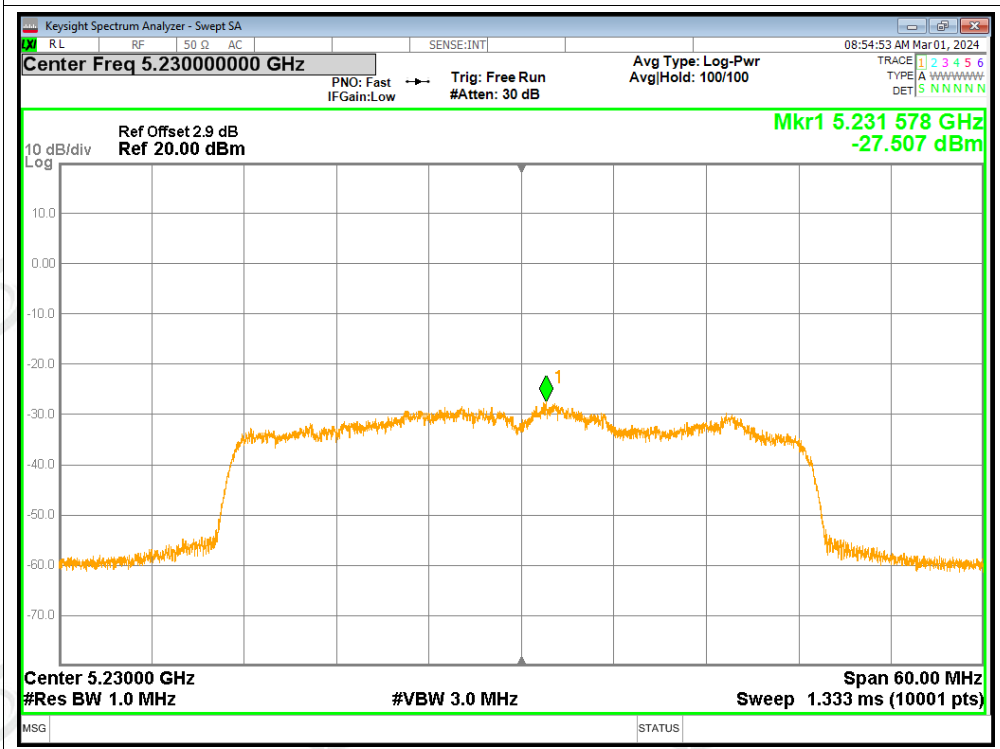




PSD NVNT n40 5190MHz Ant1

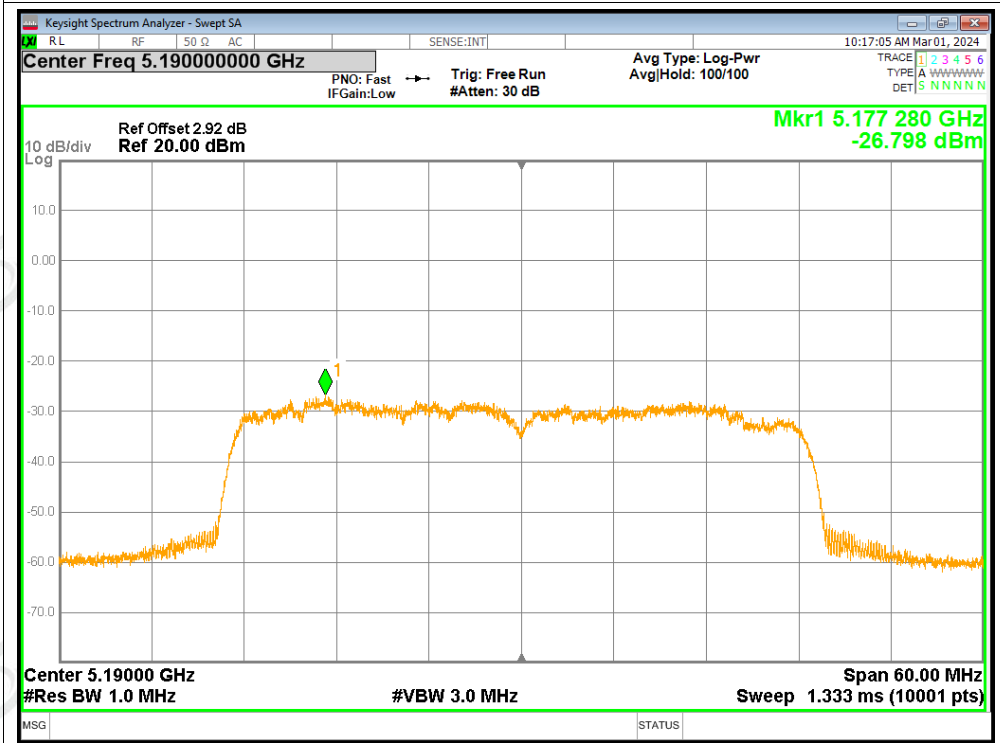


PSD NVNT n40 5230MHz Ant1

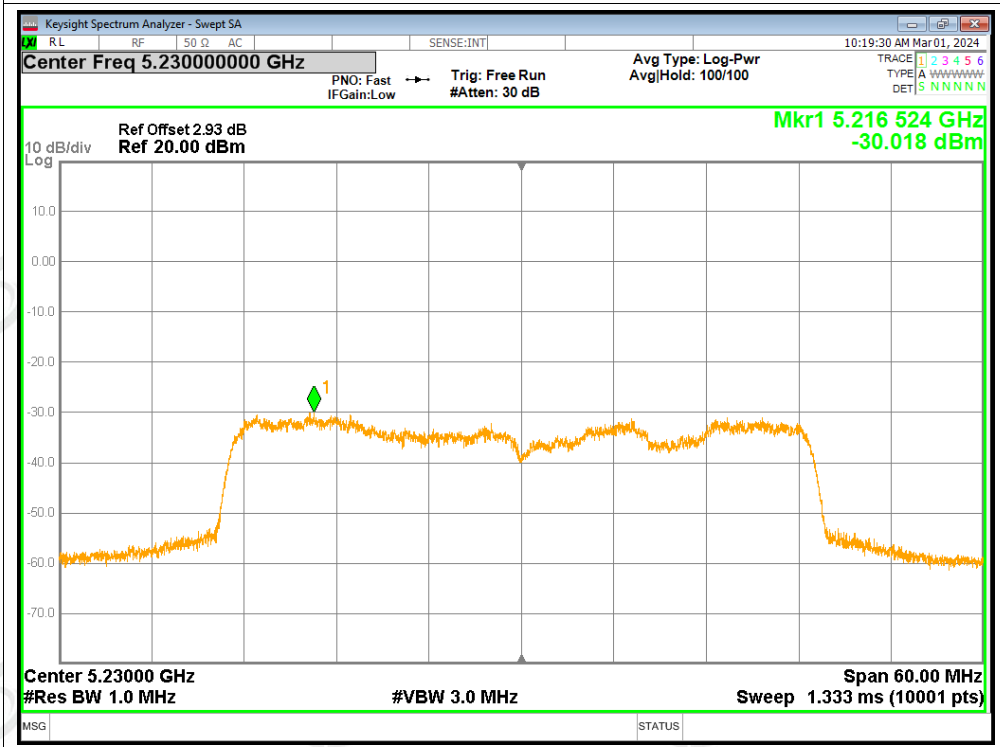




PSD NVNT n40 5190MHz Ant2

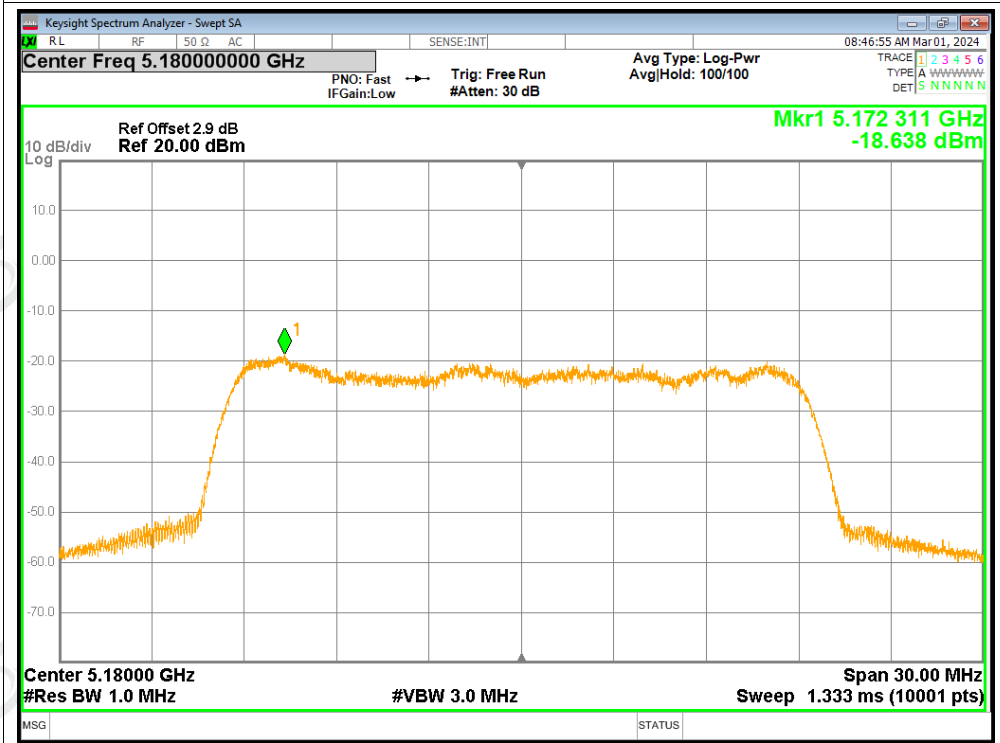


PSD NVNT n40 5230MHz Ant2

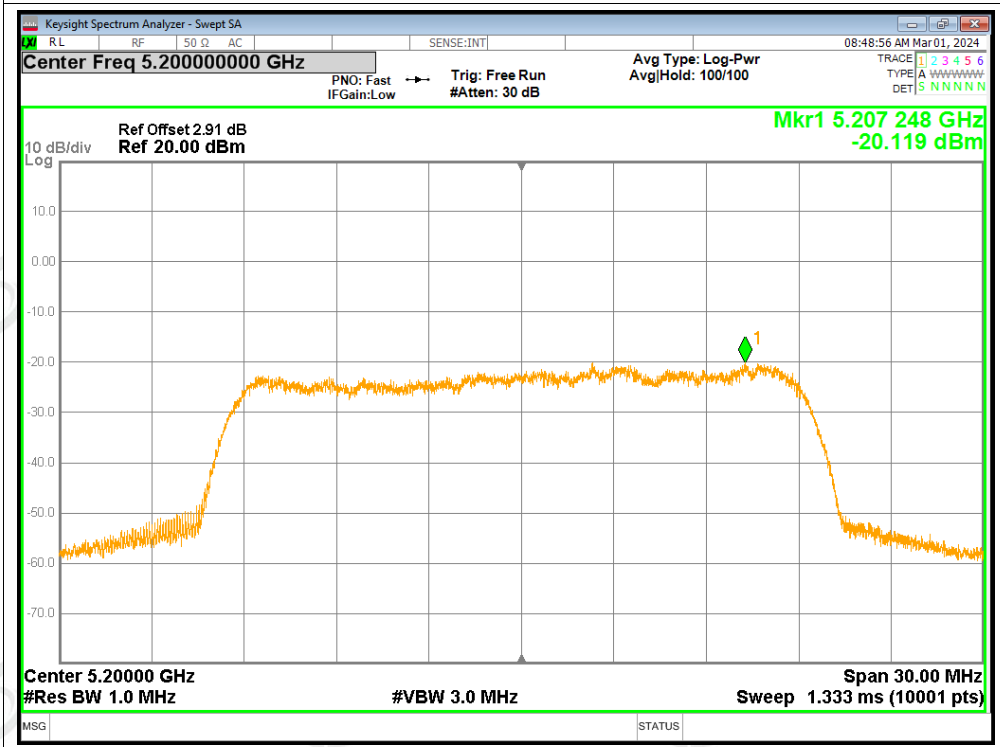




PSD NVNT ac20 5180MHz Ant1

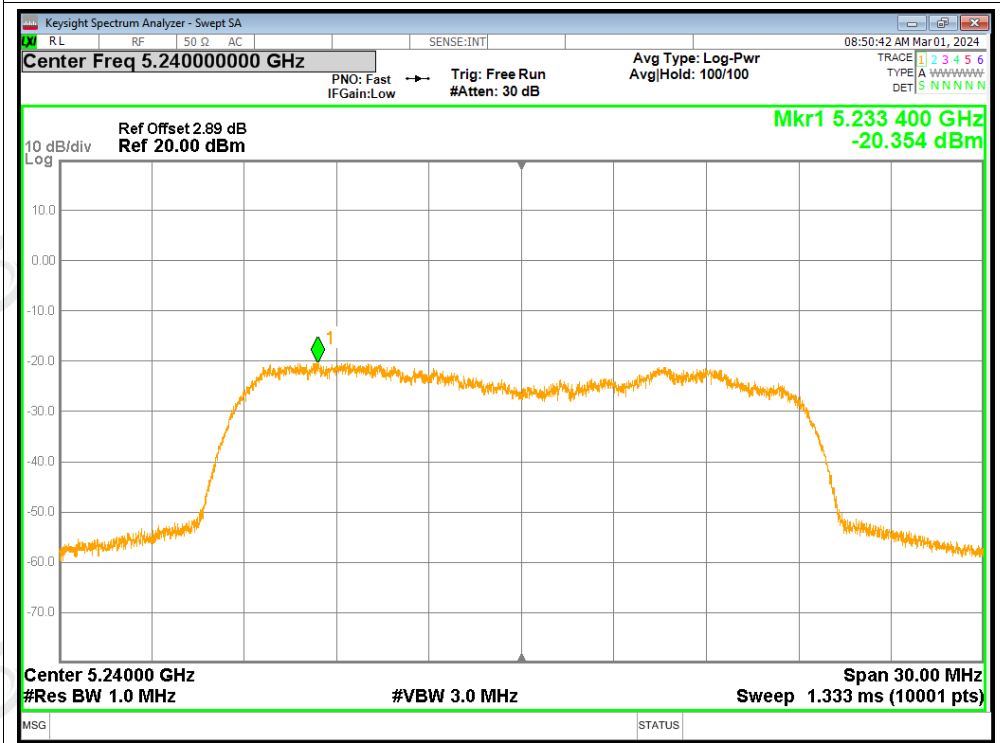


PSD NVNT ac20 5200MHz Ant1

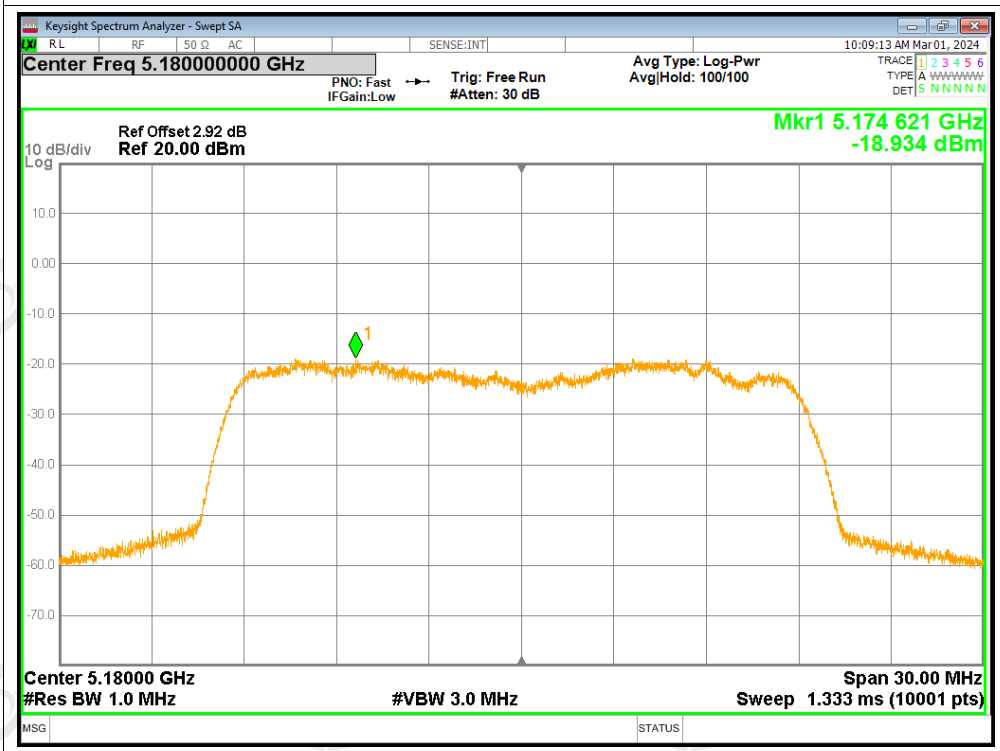




PSD NVNT ac20 5240MHz Ant1

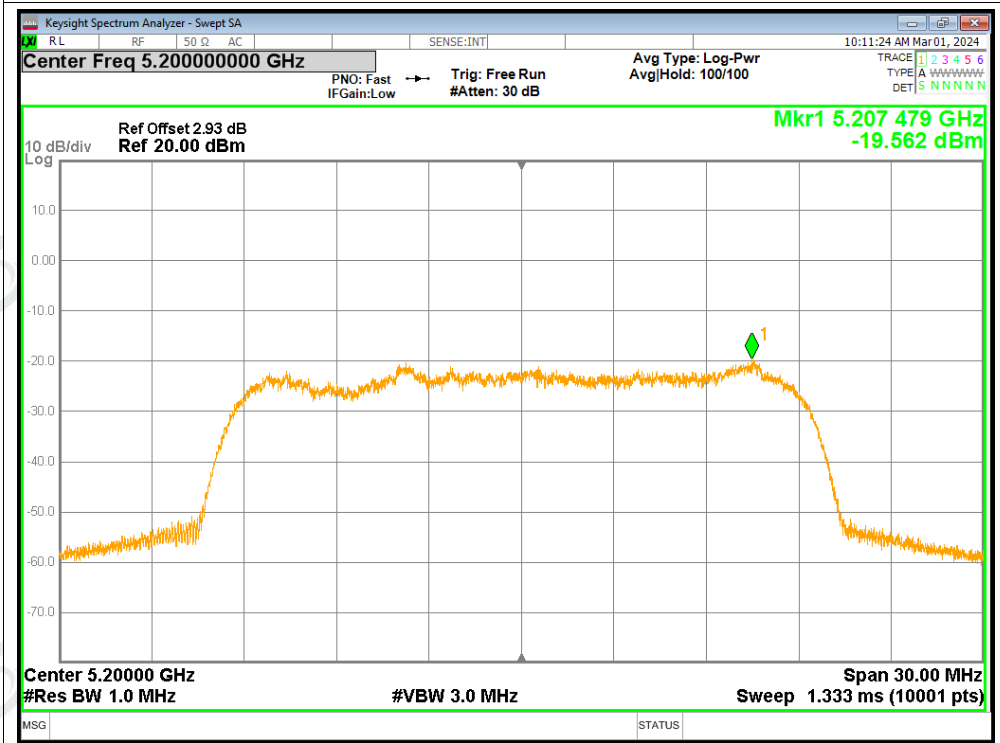


PSD NVNT ac20 5180MHz Ant2

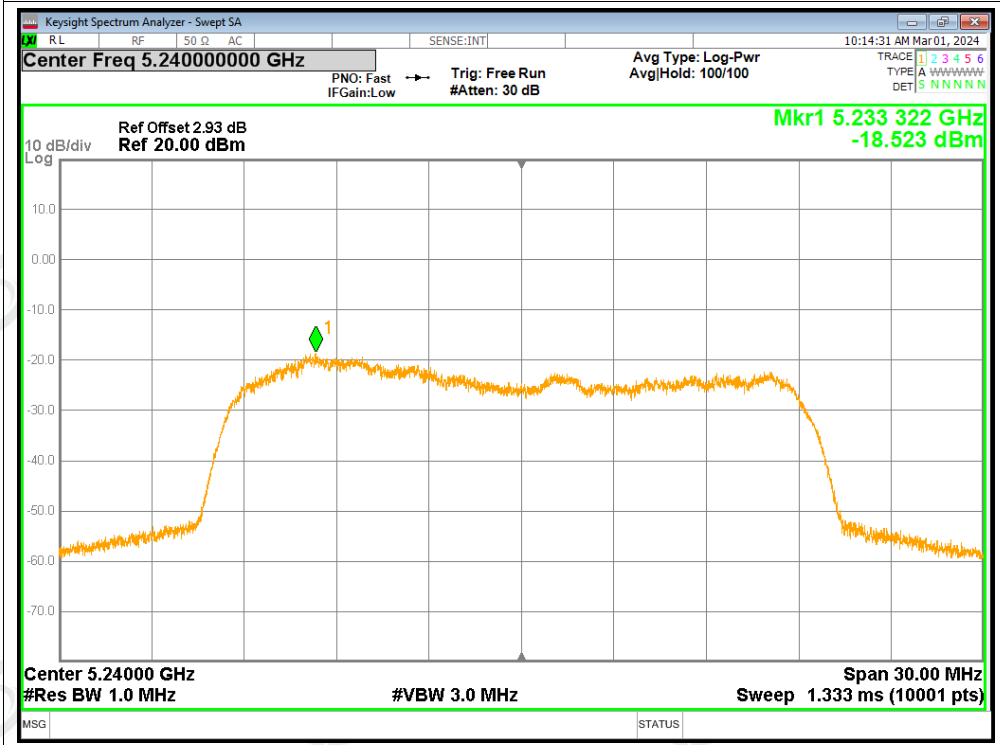




PSD NVNT ac20 5200MHz Ant2

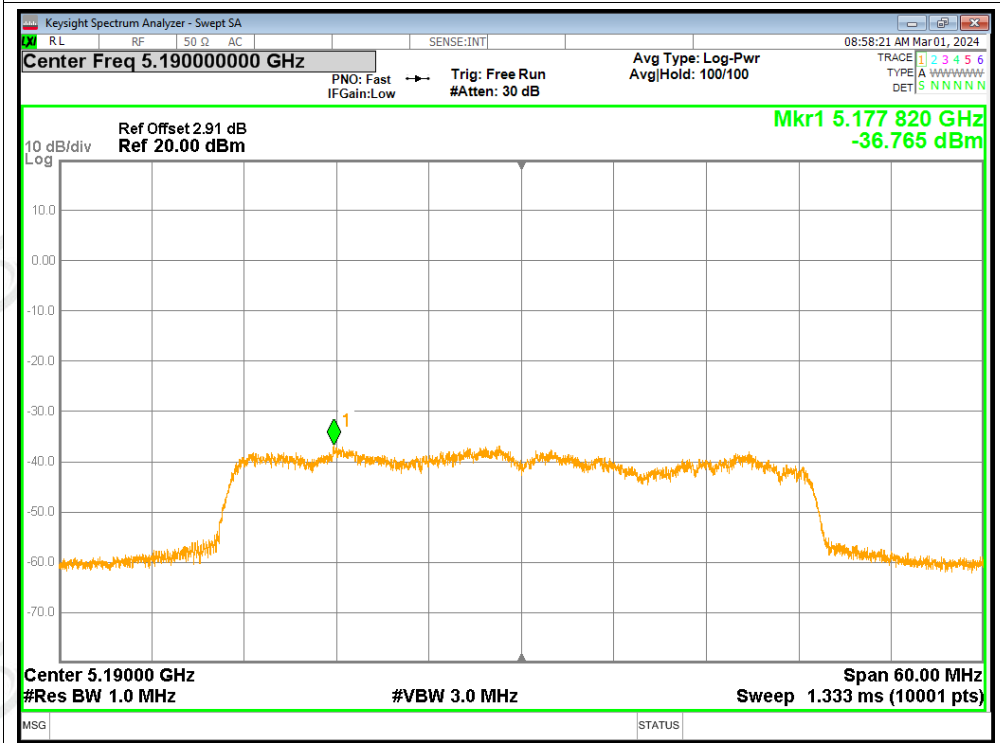


PSD NVNT ac20 5240MHz Ant2

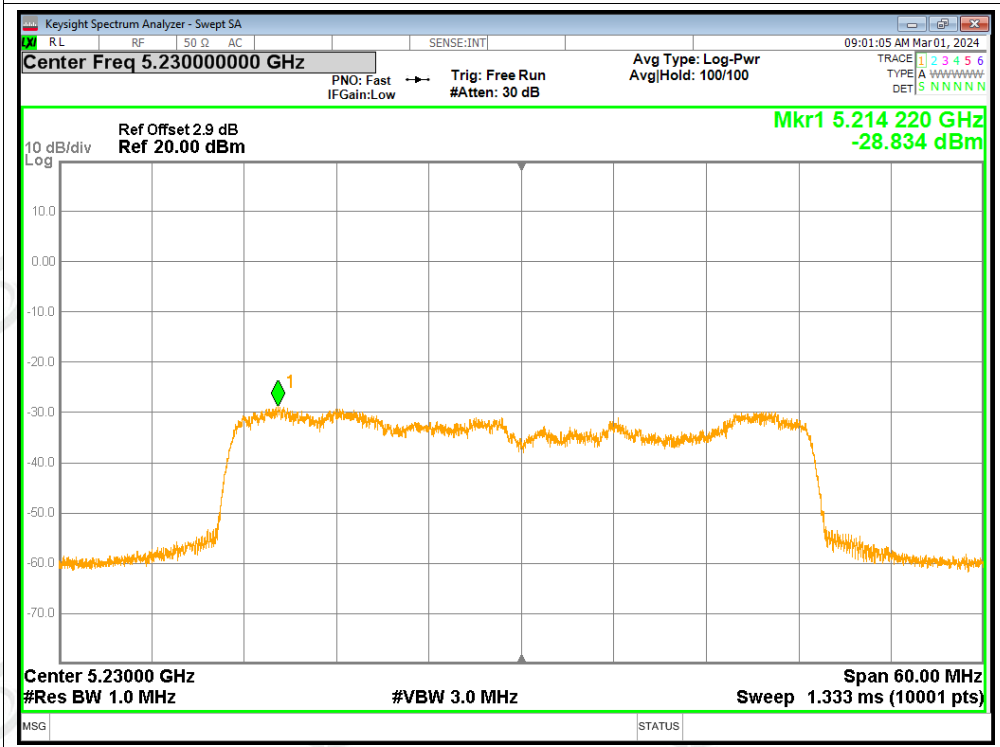




PSD NVNT ac40 5190MHz Ant1

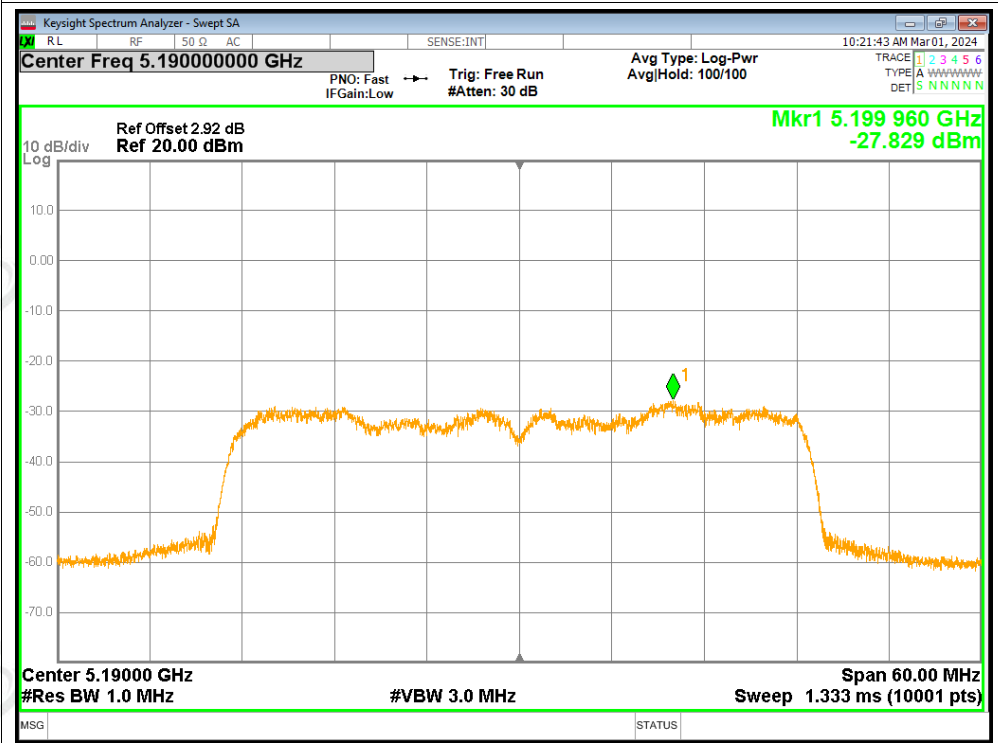


PSD NVNT ac40 5230MHz Ant1

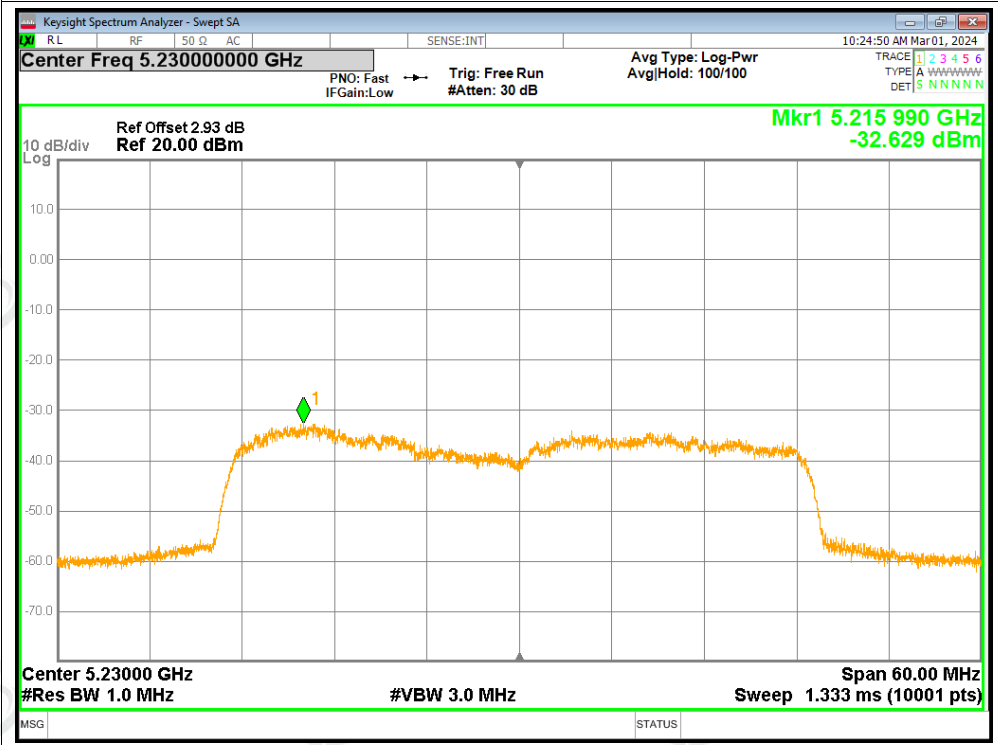




PSD NVNT ac40 5190MHz Ant2

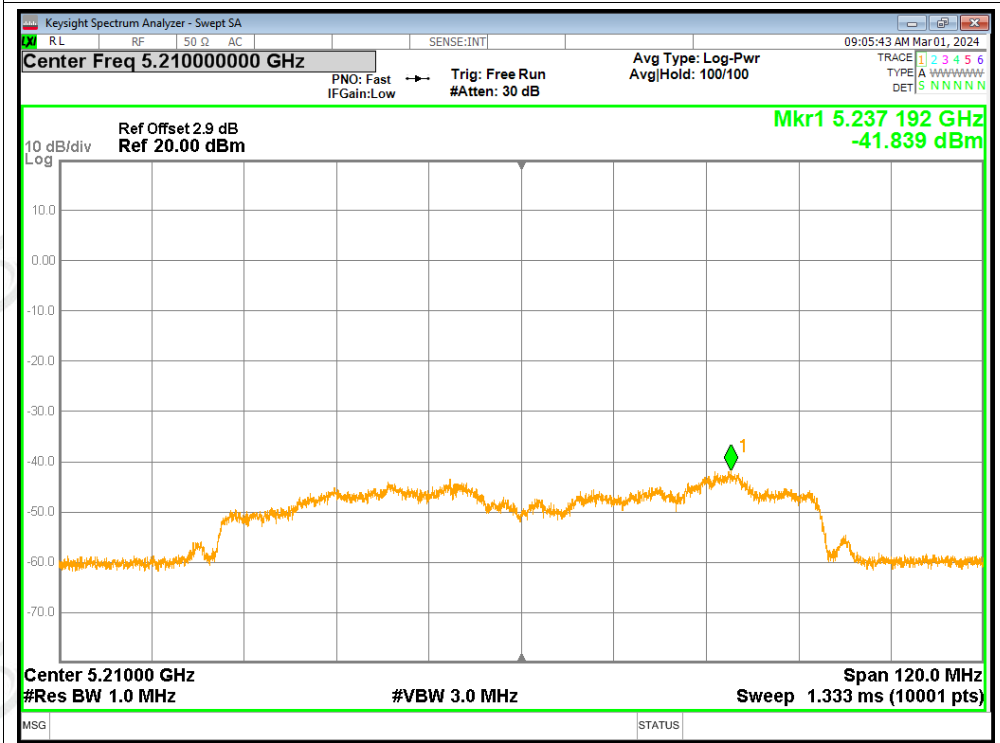


PSD NVNT ac40 5230MHz Ant2





PSD NVNT ac80 5210MHz Ant1



PSD NVNT ac80 5210MHz Ant2

