

RF Test Data for 5G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	SUMTV_BOX
Test Model:	DV9061
Sample ID:	202212-0216-3-1#
Environmental Conditions	
Temperature:	24.5°C
Relative Humidity:	48%
Test Voltage:	DC 12V
Test Engineer:	Jianping Huang
Note: For a more detailed features description, please refer to the report TBR-C-202212-0216-33.	

Contents

1. -26dB Emission Bandwidth.....	3
2. -6dB Bandwidth.....	27
3. Maximum Conducted Output Power.....	35
4. Maximum Power Spectral Density	37
5. Conducted Spurious Emission	69
6. Duty Cycle.....	112
7. Frequency Stability	144

1. -26dB Emission Bandwidth

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
ac(VHT80)	5210	AntB	95.66	----	----
a	5180	AntB	38.86	----	----
a	5200	AntB	37.57	----	----
a	5240	AntB	37.82	----	----
ac(VHT20)	5180	AntB	41.03	----	----
ac(VHT20)	5200	AntB	42.97	----	----
ac(VHT20)	5240	AntB	40.42	----	----
ac(VHT40)	5190	AntB	75.6	----	----
ac(VHT40)	5230	AntB	79.43	----	----
n(HT20)	5180	AntB	42.45	----	----
n(HT20)	5200	AntB	43.79	----	----
n(HT20)	5240	AntB	42.65	----	----
n(HT40)	5190	AntB	79.06	----	----
n(HT40)	5230	AntB	78.76	----	----

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5260	AntB	38.12	----	----
a	5280	AntB	40.81	----	----
a	5320	AntB	41.23	----	----
ac(VHT20)	5260	AntB	38.79	----	----
ac(VHT20)	5280	AntB	40.31	----	----
ac(VHT20)	5320	AntB	46.32	----	----
ac(VHT40)	5270	AntB	78.2	----	----
ac(VHT40)	5310	AntB	77.74	----	----
ac(VHT80)	5290	AntB	82.01	----	----
n(HT20)	5260	AntB	41.54	----	----
n(HT20)	5280	AntB	42.07	----	----
n(HT20)	5320	AntB	42.75	----	----
n(HT40)	5270	AntB	79.09	----	----
n(HT40)	5310	AntB	78.88	----	----

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5500	AntB	44.72	----	----
a	5600	AntB	40.74	----	----
a	5700	AntB	38.82	----	----
ac(VHT20)	5500	AntB	41.4	----	----
ac(VHT20)	5600	AntB	40.35	----	----
ac(VHT20)	5700	AntB	42	----	----
ac(VHT40)	5510	AntB	79.46	----	----
ac(VHT40)	5550	AntB	78.56	----	----
ac(VHT40)	5670	AntB	76.7	----	----
ac(VHT80)	5530	AntB	104.36	----	----
ac(VHT80)	5610	AntB	90.61	----	----
n(HT20)	5500	AntB	43.66	----	----
n(HT20)	5600	AntB	40.66	----	----
n(HT20)	5700	AntB	42.11	----	----
n(HT40)	5510	AntB	77.89	----	----
n(HT40)	5550	AntB	79.33	----	----
n(HT40)	5670	AntB	76.91	----	----

Test Graphs

-26dB Bandwidth NVNT ac(VHT80) 5210MHz AntB



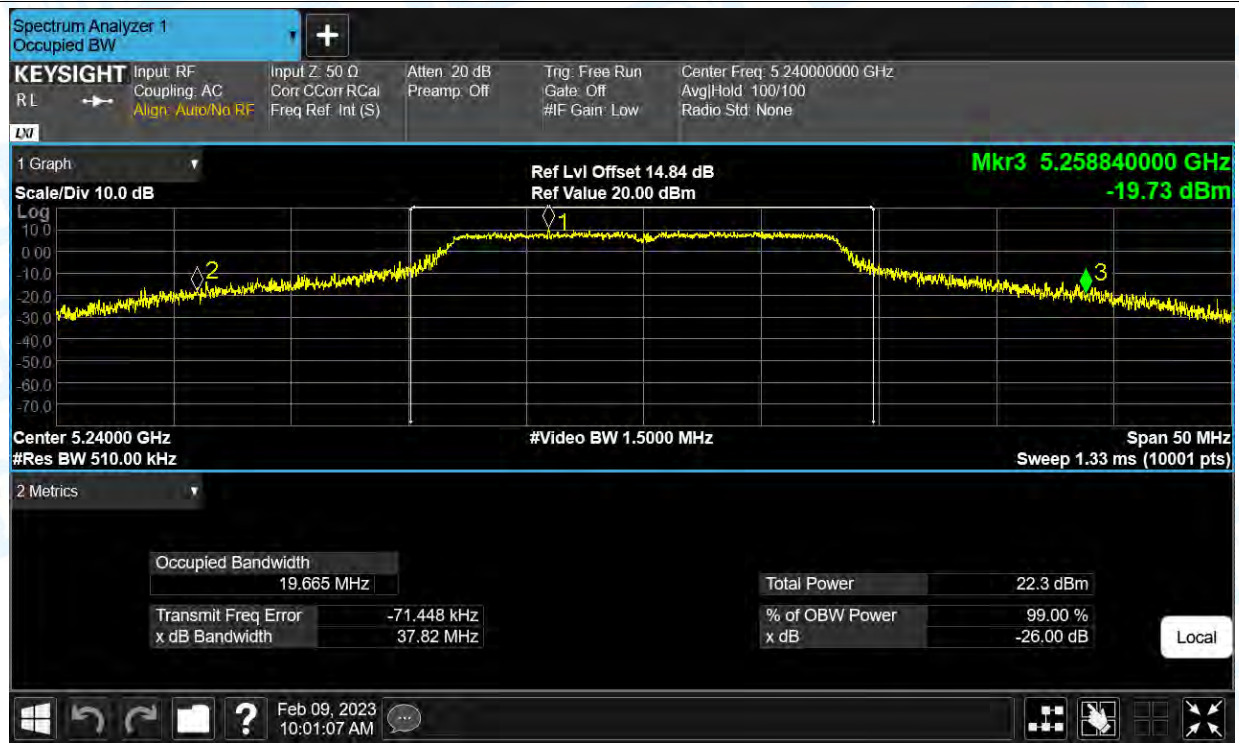
-26dB Bandwidth NVNT a 5180MHz AntB



-26dB Bandwidth NVNT a 5200MHz AntB



-26dB Bandwidth NVNT a 5240MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5180MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5200MHz AntB



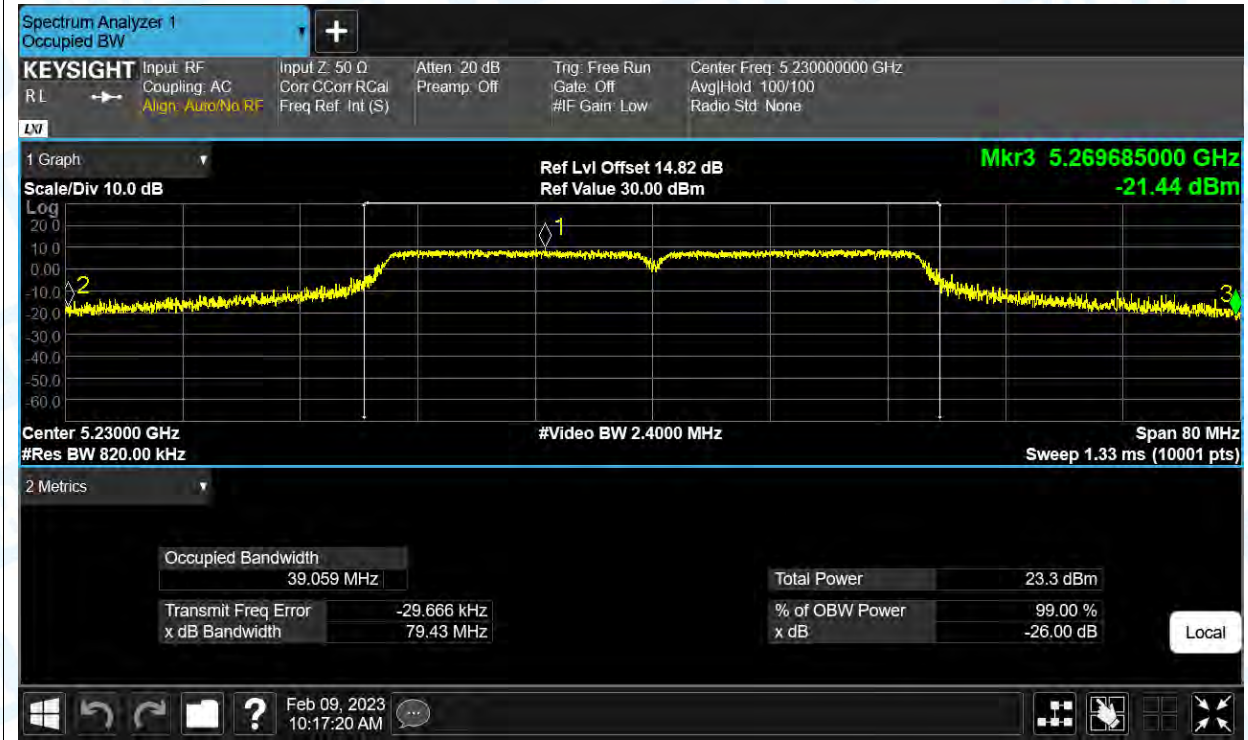
-26dB Bandwidth NVNT ac(VHT20) 5240MHz AntB



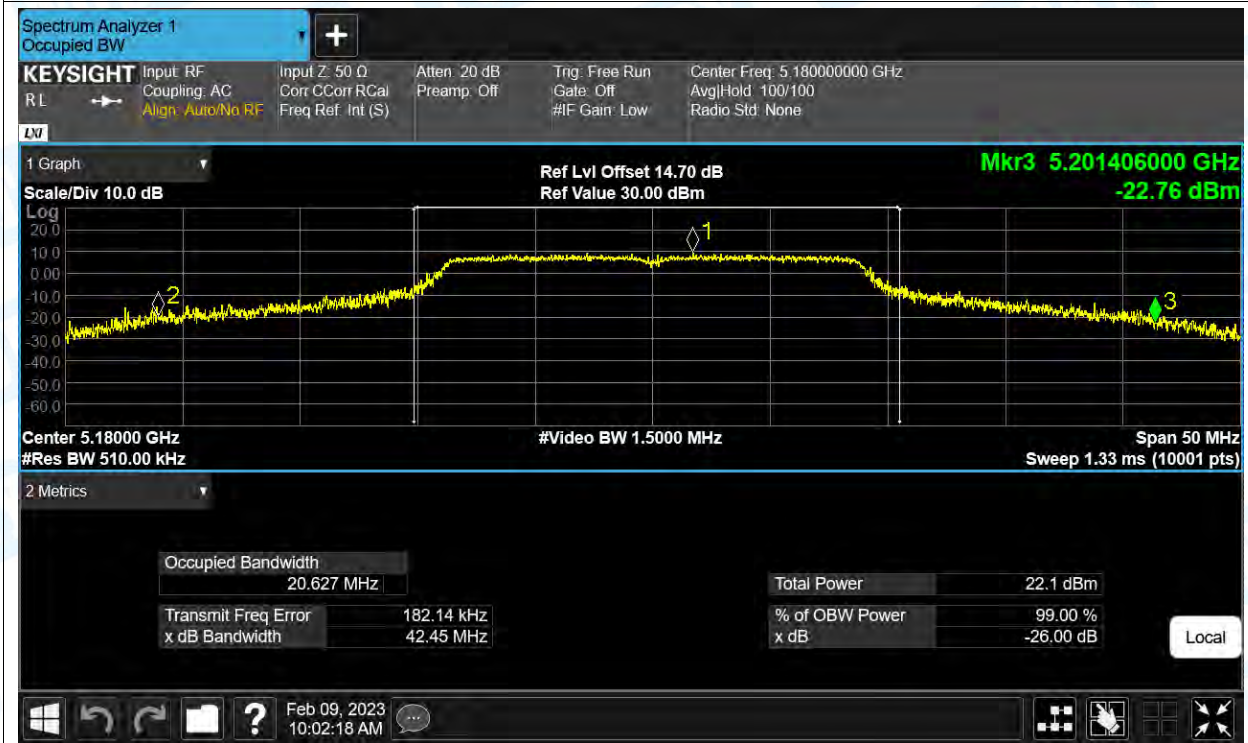
-26dB Bandwidth NVNT ac(VHT40) 5190MHz AntB



-26dB Bandwidth NVNT ac(VHT40) 5230MHz AntB



-26dB Bandwidth NVNT n(HT20) 5180MHz AntB



-26dB Bandwidth NVNT n(HT20) 5200MHz AntB



-26dB Bandwidth NVNT n(HT20) 5240MHz AntB



-26dB Bandwidth NVNT n(HT40) 5190MHz AntB



-26dB Bandwidth NVNT n(HT40) 5230MHz AntB

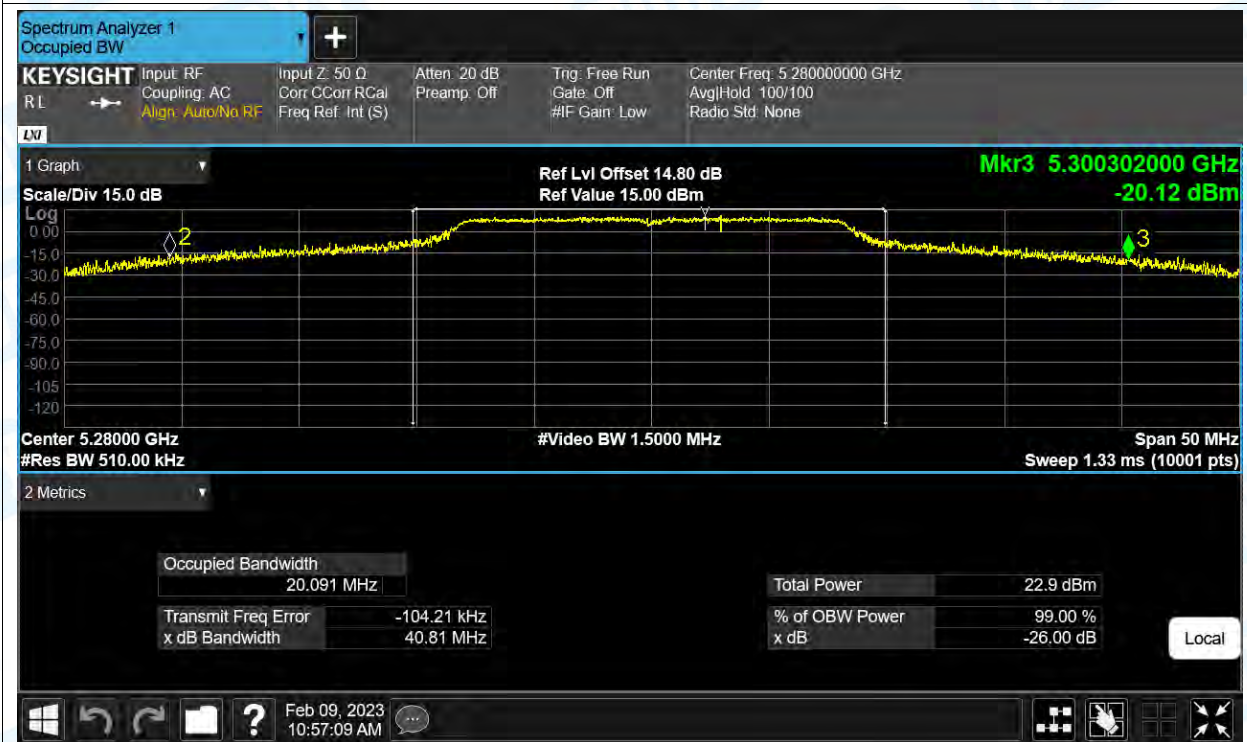


Test Graphs

-26dB Bandwidth NVNT a 5260MHz AntB



-26dB Bandwidth NVNT a 5280MHz AntB



-26dB Bandwidth NVNT a 5320MHz AntB



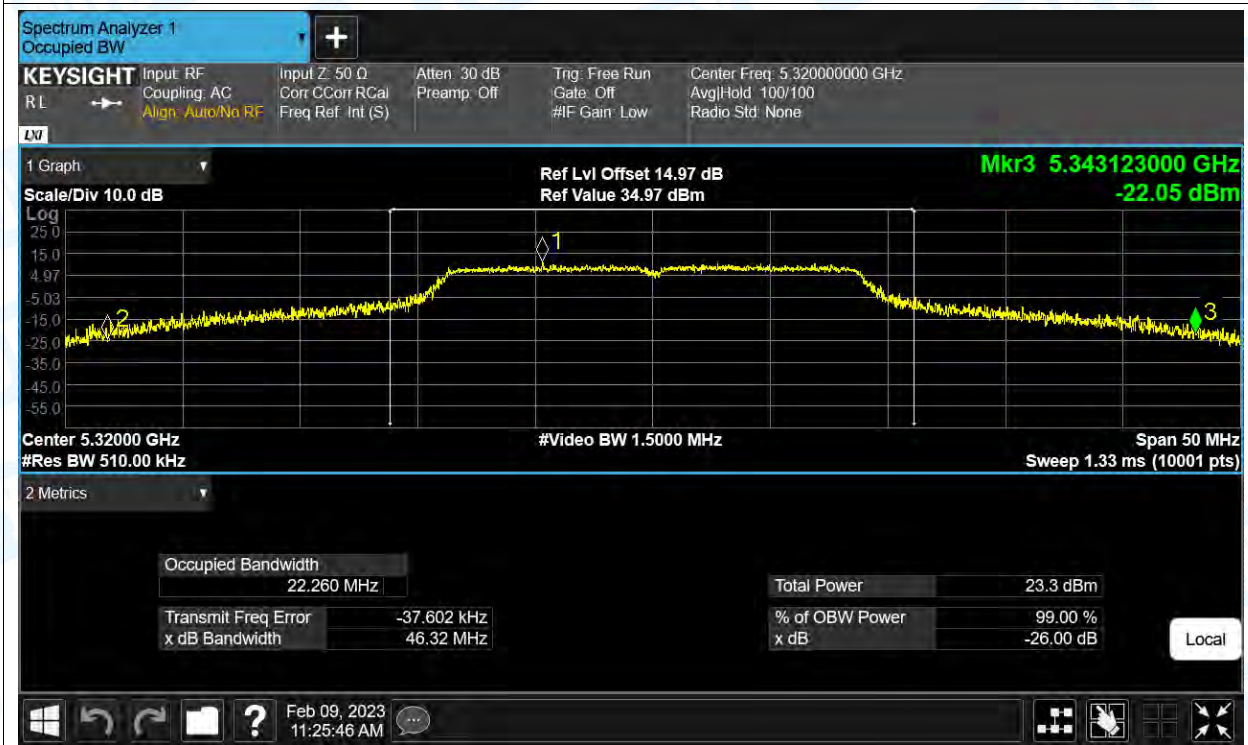
-26dB Bandwidth NVNT ac(VHT20) 5260MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5280MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5320MHz AntB



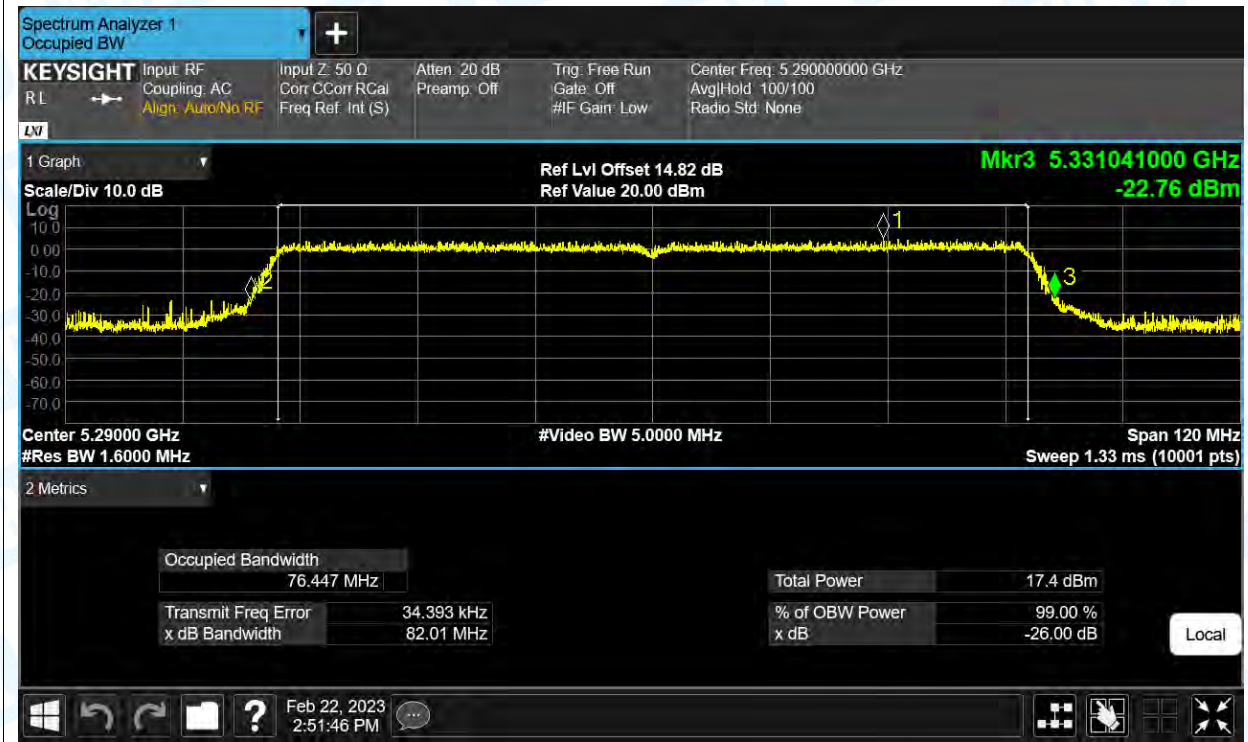
-26dB Bandwidth NVNT ac(VHT40) 5270MHz AntB



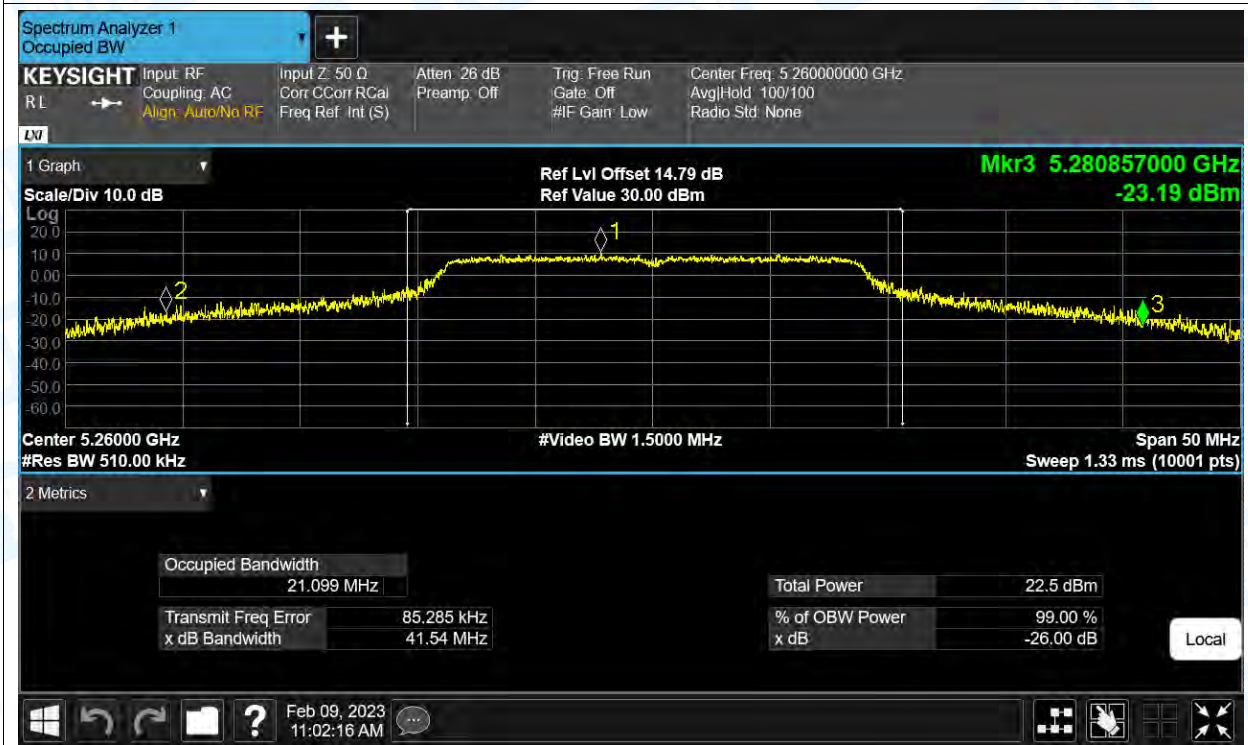
-26dB Bandwidth NVNT ac(VHT40) 5310MHz AntB



-26dB Bandwidth NVNT ac(VHT80) 5290MHz AntB



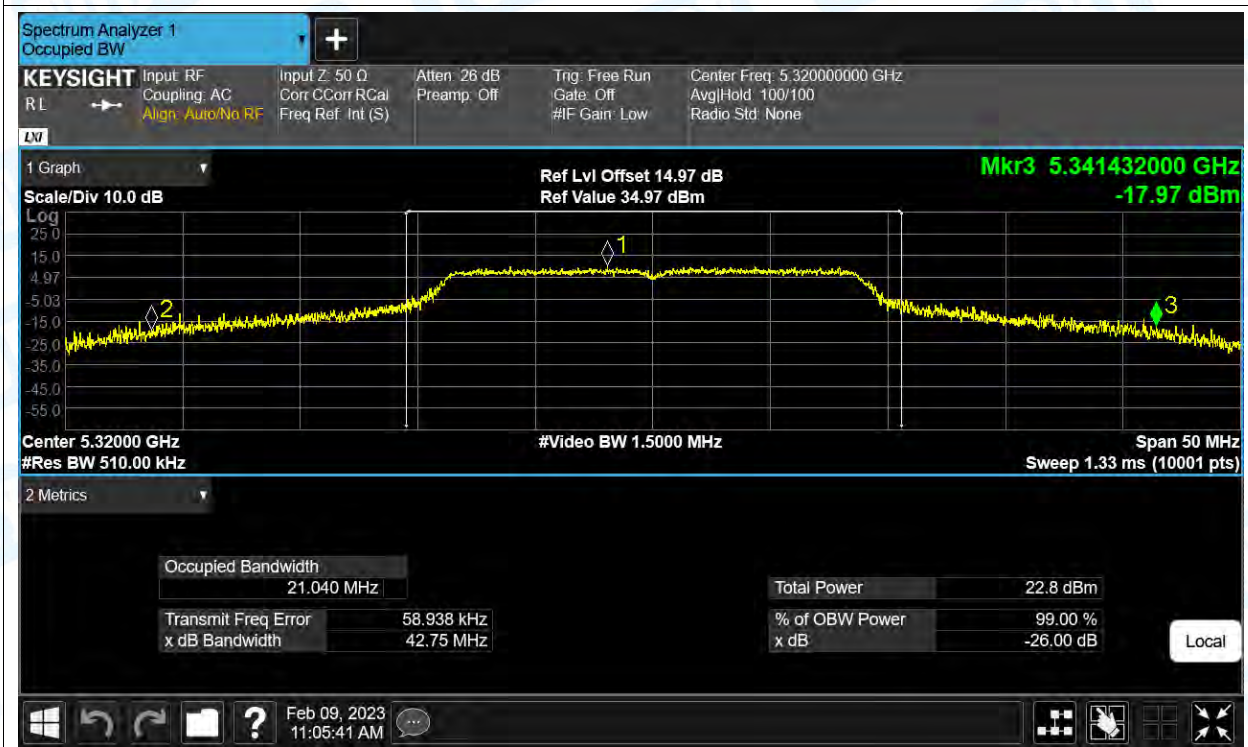
-26dB Bandwidth NVNT n(HT20) 5260MHz AntB



-26dB Bandwidth NVNT n(HT20) 5280MHz AntB



-26dB Bandwidth NVNT n(HT20) 5320MHz AntB



-26dB Bandwidth NVNT n(HT40) 5270MHz AntB



-26dB Bandwidth NVNT n(HT40) 5310MHz AntB

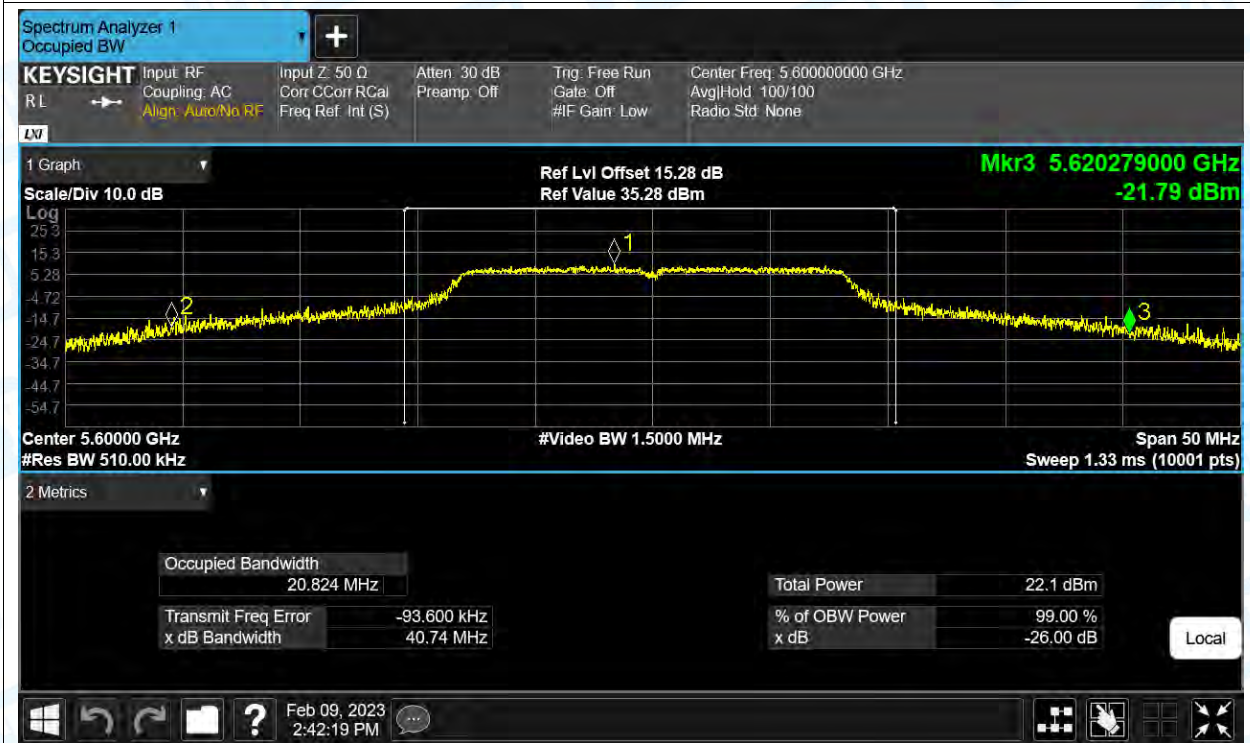


Test Graphs

-26dB Bandwidth NVNT a 5500MHz AntB



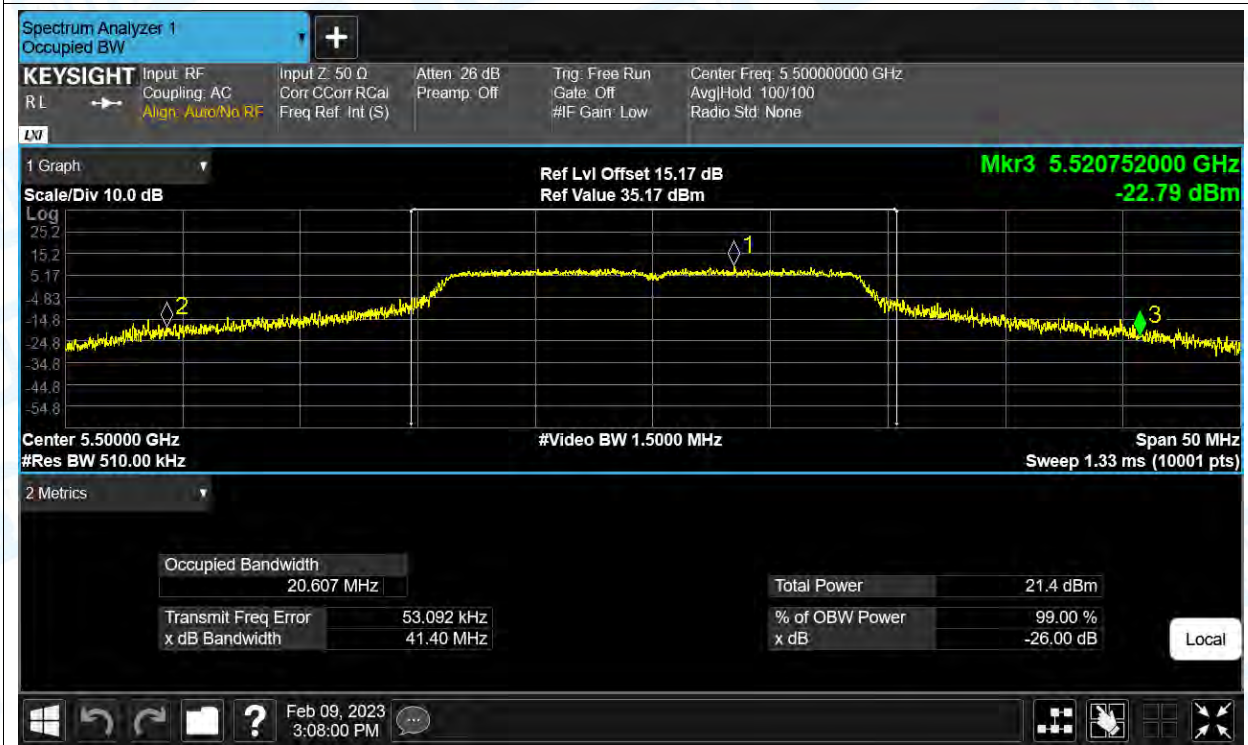
-26dB Bandwidth NVNT a 5600MHz AntB



-26dB Bandwidth NVNT a 5700MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5500MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5600MHz AntB



-26dB Bandwidth NVNT ac(VHT20) 5700MHz AntB



-26dB Bandwidth NVNT ac(VHT40) 5510MHz AntB



-26dB Bandwidth NVNT ac(VHT40) 5550MHz AntB



-26dB Bandwidth NVNT ac(VHT40) 5670MHz AntB



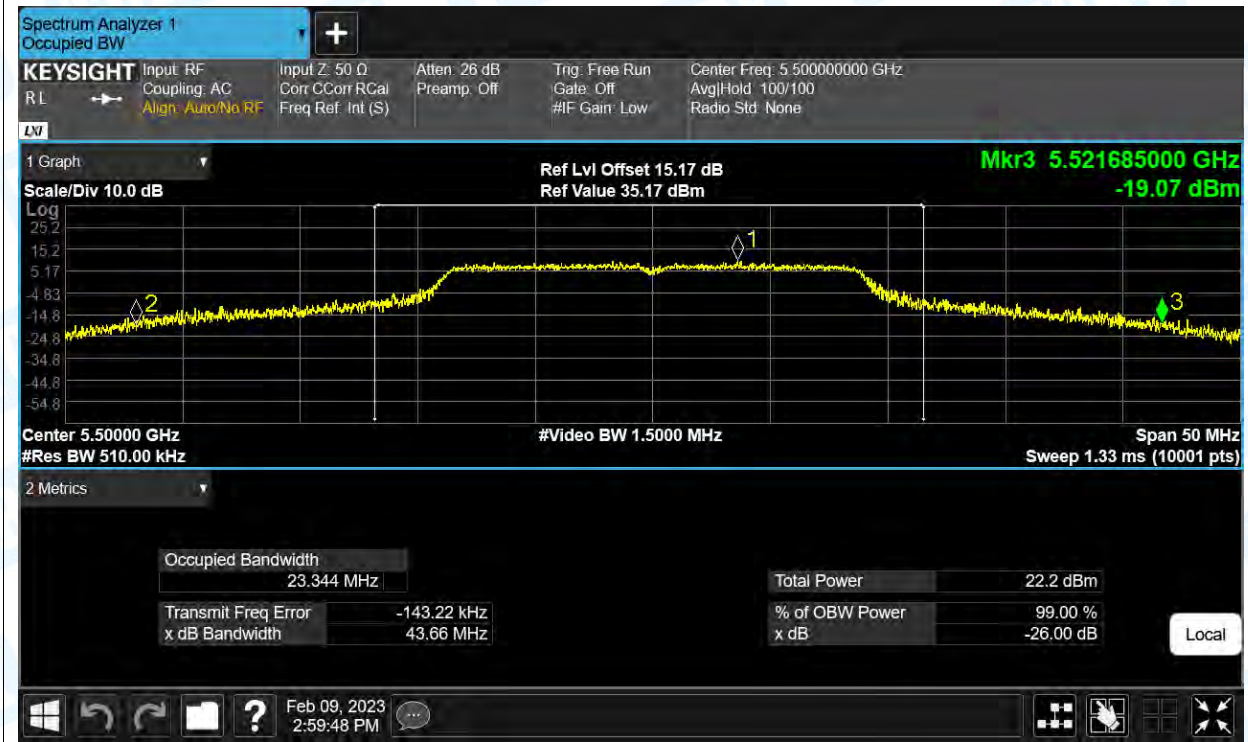
-26dB Bandwidth NVNT ac(VHT80) 5530MHz AntB



-26dB Bandwidth NVNT ac(VHT80) 5610MHz AntB



-26dB Bandwidth NVNT n(HT20) 5500MHz AntB



-26dB Bandwidth NVNT n(HT20) 5600MHz AntB



-26dB Bandwidth NVNT n(HT20) 5700MHz AntB



-26dB Bandwidth NVNT n(HT40) 5510MHz AntB



-26dB Bandwidth NVNT n(HT40) 5550MHz AntB



-26dB Bandwidth NVNT n(HT40) 5670MHz AntB



2. -6dB Bandwidth

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	AntB	16.35	0.5	Pass
a	5785	AntB	16.33	0.5	Pass
a	5825	AntB	16.35	0.5	Pass
ac(VHT20)	5745	AntB	17.54	0.5	Pass
ac(VHT20)	5785	AntB	17.59	0.5	Pass
ac(VHT20)	5825	AntB	17.55	0.5	Pass
ac(VHT40)	5755	AntB	36.04	0.5	Pass
ac(VHT40)	5795	AntB	36.33	0.5	Pass
ac(VHT80)	5775	AntB	76.29	0.5	Pass
n(HT20)	5745	AntB	17.59	0.5	Pass
n(HT20)	5785	AntB	17.57	0.5	Pass
n(HT20)	5825	AntB	17.58	0.5	Pass
n(HT40)	5755	AntB	36.32	0.5	Pass
n(HT40)	5795	AntB	36.3	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT a 5745MHz AntB



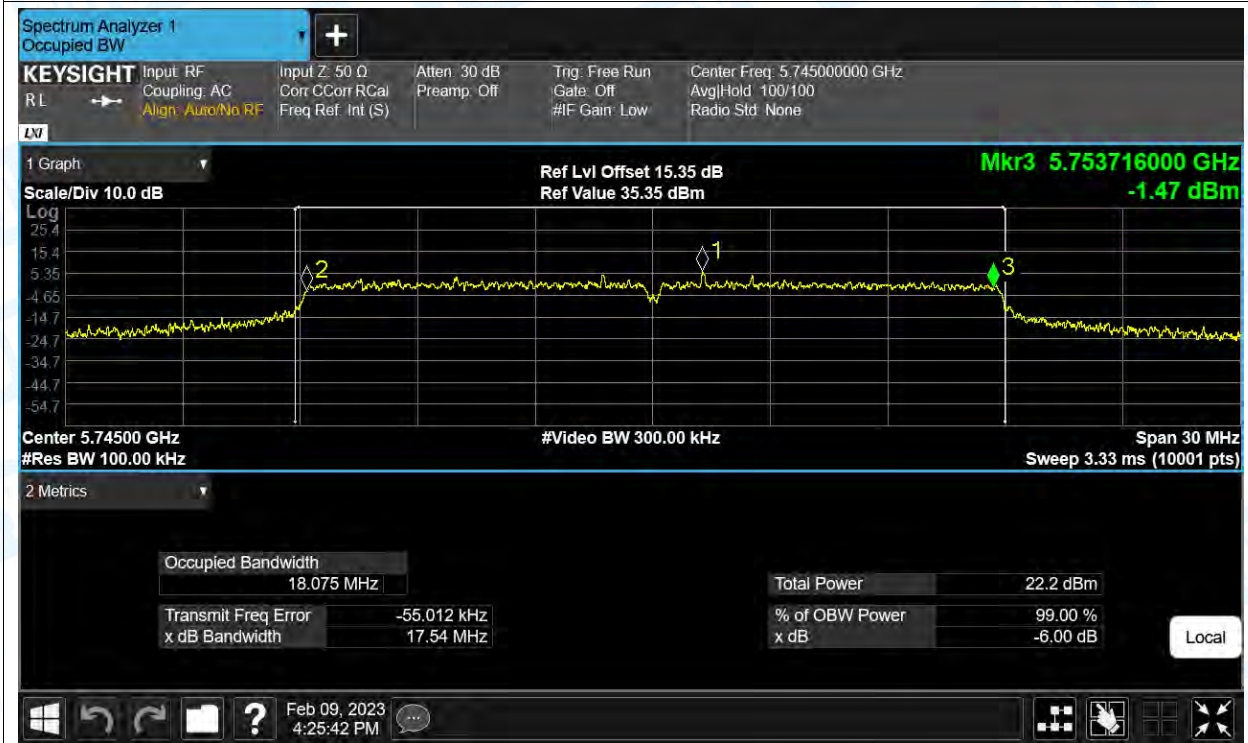
-6dB Bandwidth NVNT a 5785MHz AntB



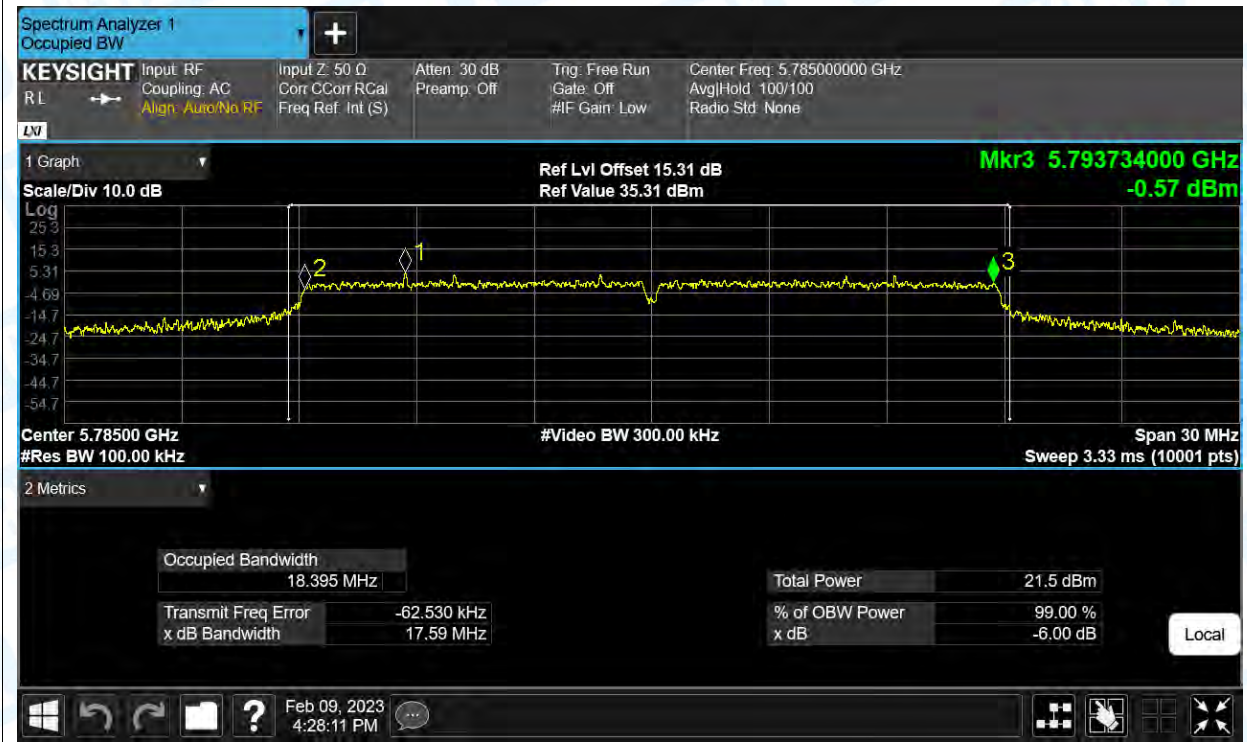
-6dB Bandwidth NVNT a 5825MHz AntB



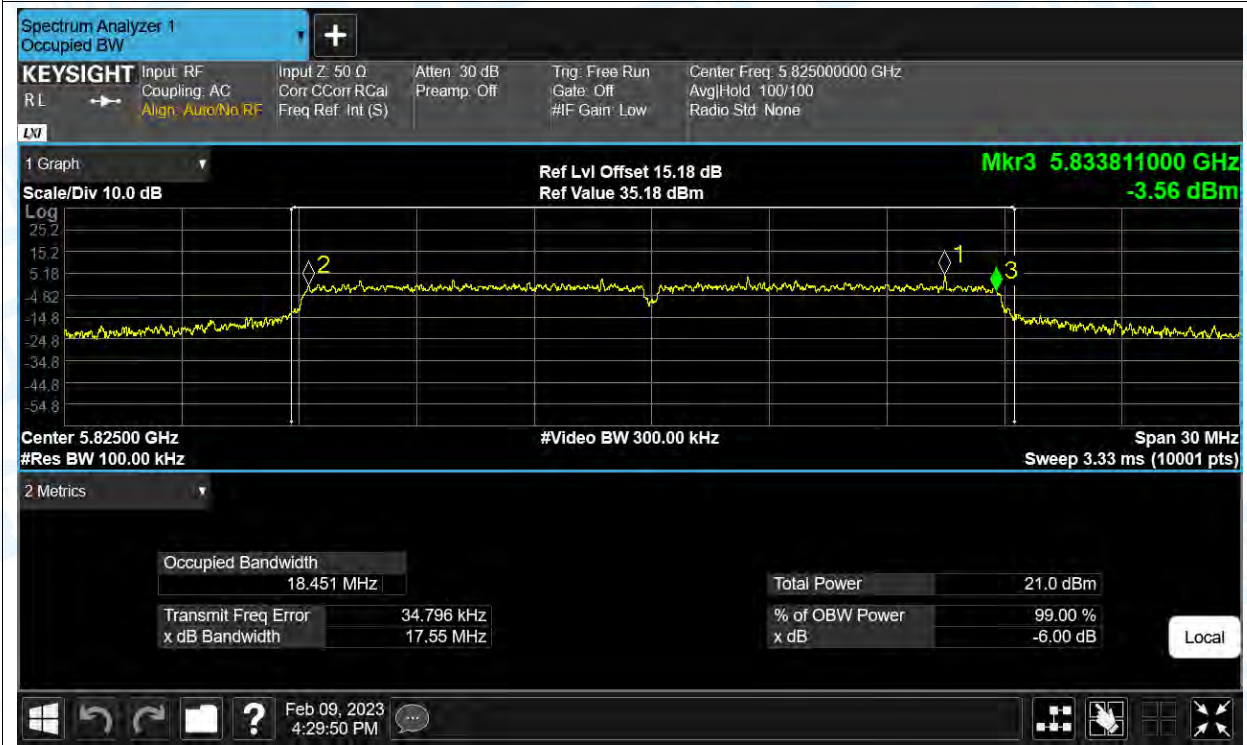
-6dB Bandwidth NVNT ac(VHT20) 5745MHz AntB



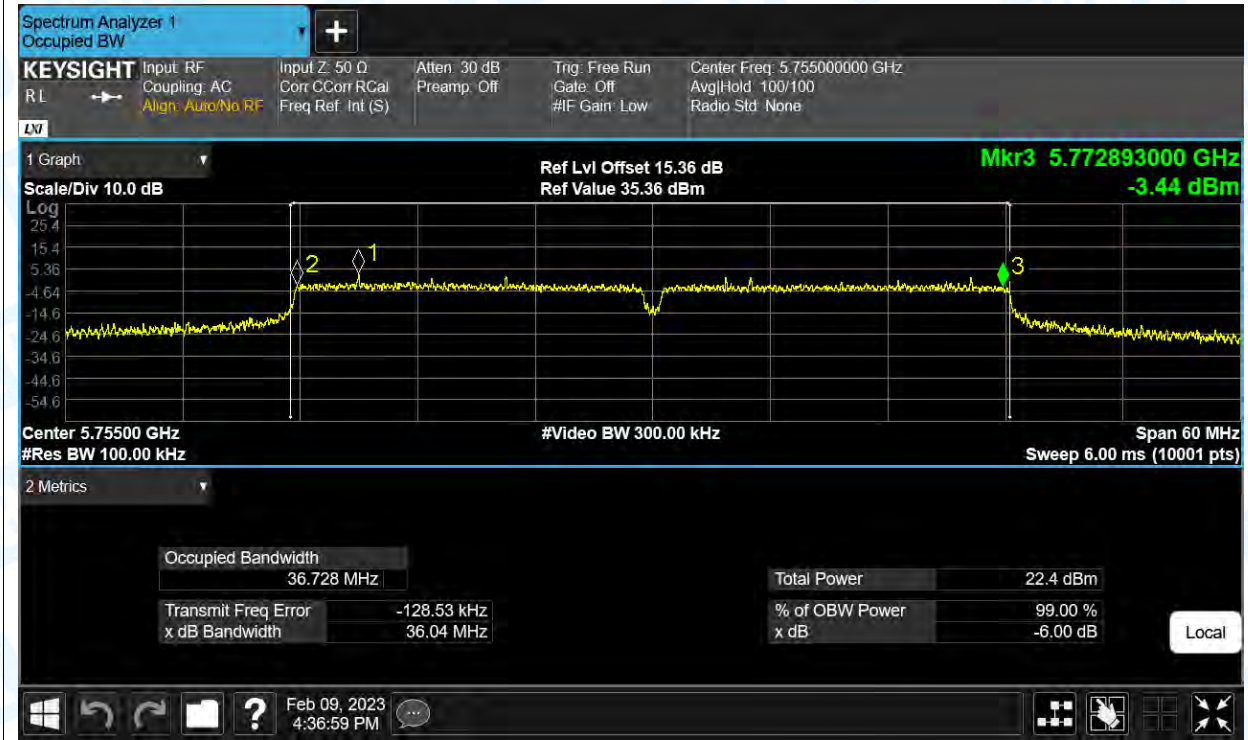
-6dB Bandwidth NVNT ac(VHT20) 5785MHz AntB



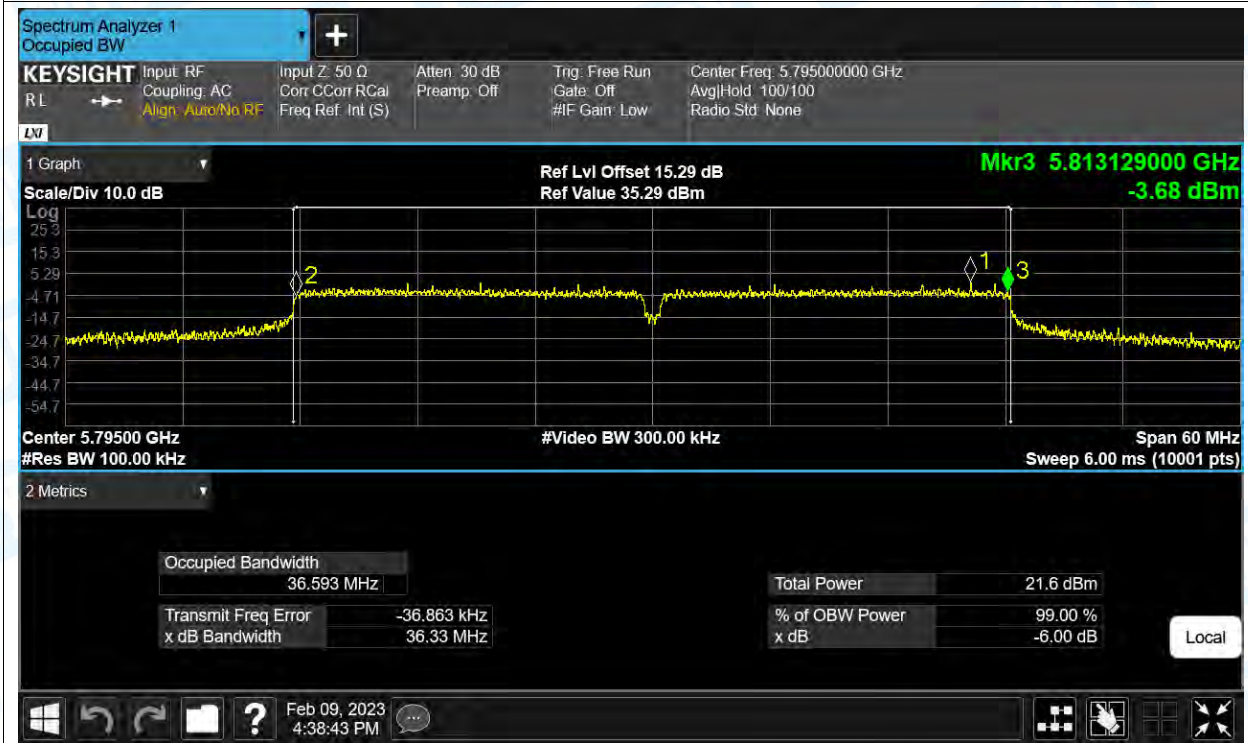
-6dB Bandwidth NVNT ac(VHT20) 5825MHz AntB



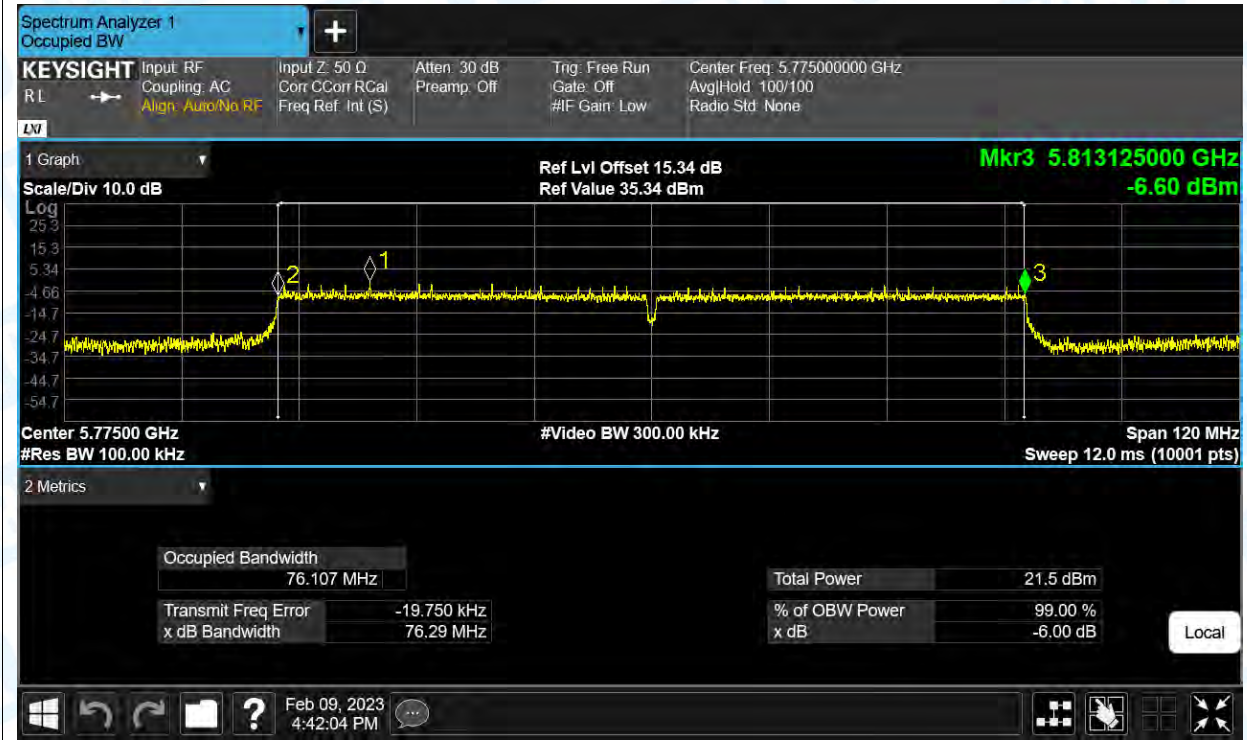
-6dB Bandwidth NVNT ac(VHT40) 5755MHz AntB



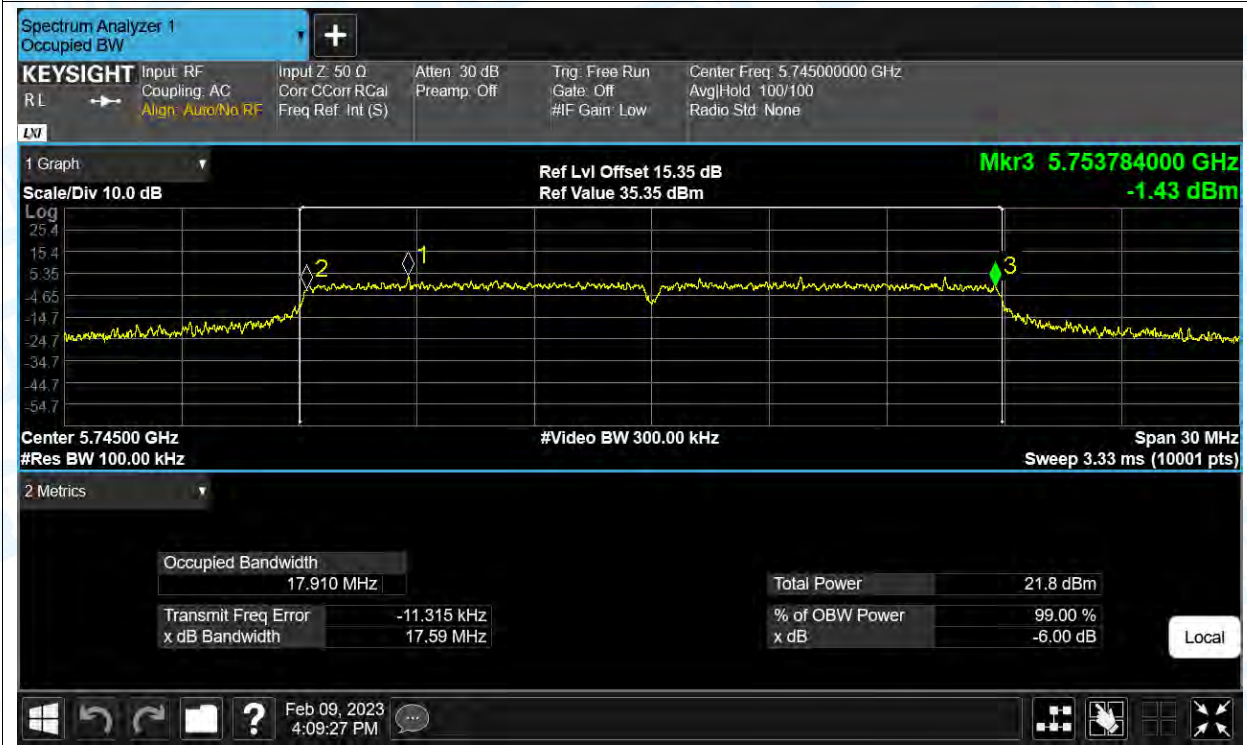
-6dB Bandwidth NVNT ac(VHT40) 5795MHz AntB



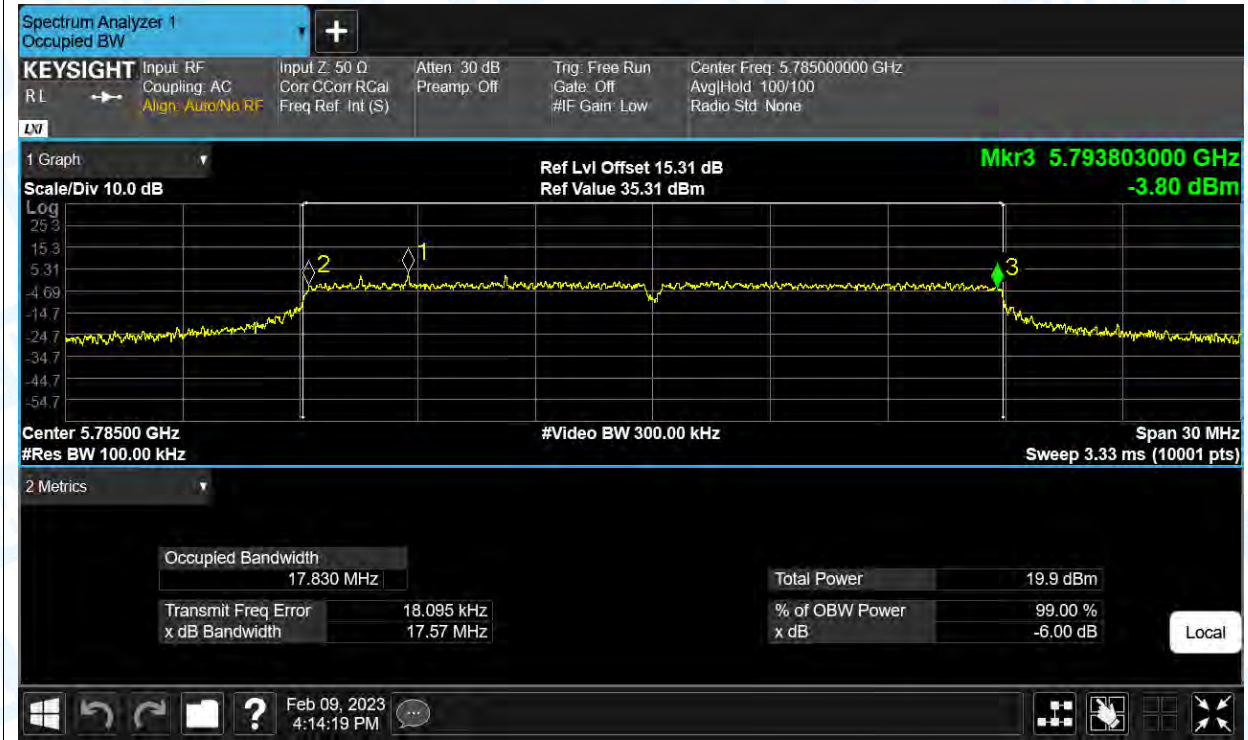
-6dB Bandwidth NVNT ac(VHT80) 5775MHz AntB



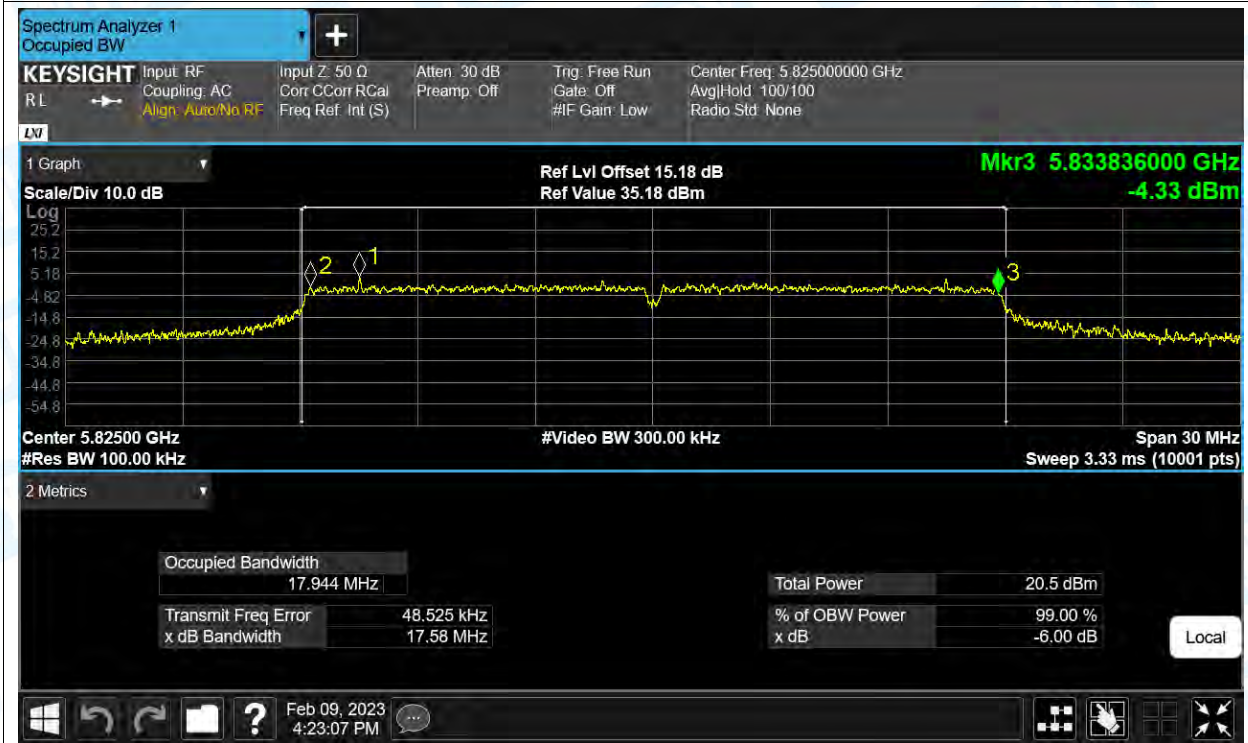
-6dB Bandwidth NVNT n(HT20) 5745MHz AntB



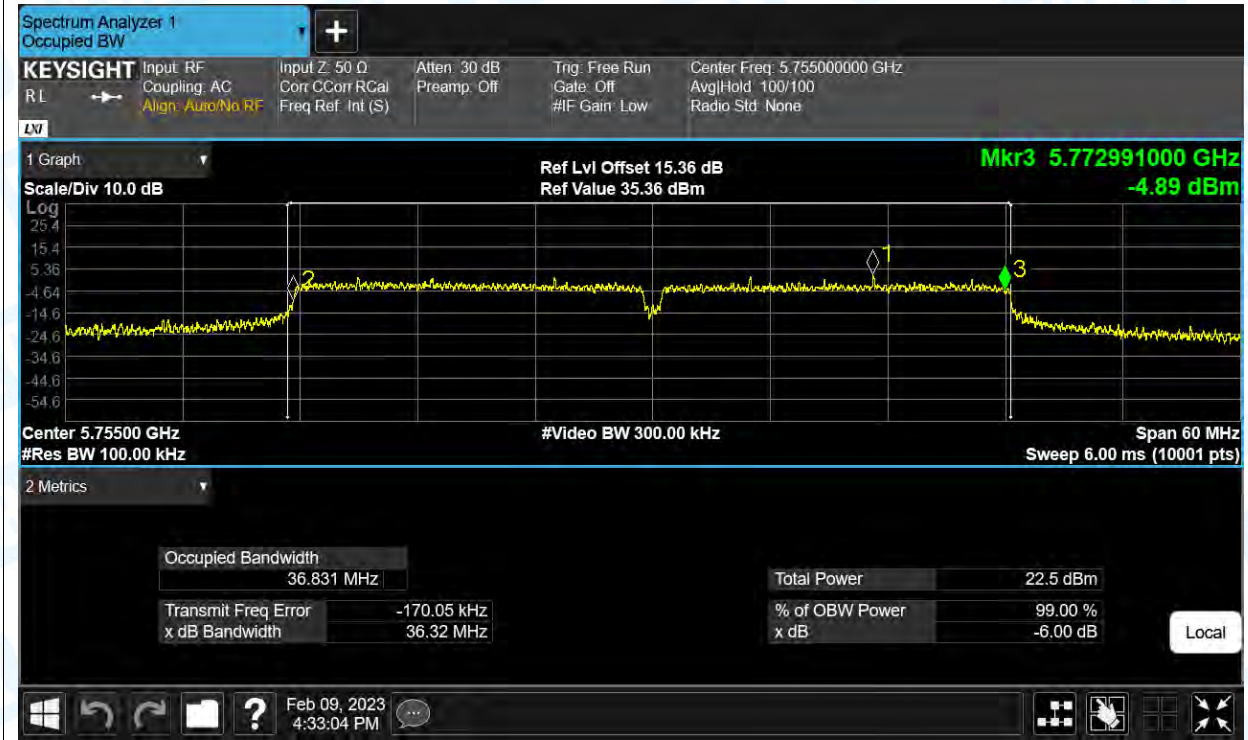
-6dB Bandwidth NVNT n(HT20) 5785MHz AntB



-6dB Bandwidth NVNT n(HT20) 5825MHz AntB



-6dB Bandwidth NVNT n(HT40) 5755MHz AntB



-6dB Bandwidth NVNT n(HT40) 5795MHz AntB



3. Maximum Conducted Output Power

U-NII-1

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	AntB	17.22	0.45	17.67	24	Pass
NVNT	a	5200	AntB	17.44	0.41	17.85	24	Pass
NVNT	a	5240	AntB	17.92	0.44	18.36	24	Pass
NVNT	n(HT20)	5180	AntB	16.95	0.17	17.12	24	Pass
NVNT	n(HT20)	5200	AntB	17.4	0.17	17.57	24	Pass
NVNT	n(HT20)	5240	AntB	17.81	0.17	17.98	24	Pass
NVNT	n(HT40)	5190	AntB	17.23	0.29	17.52	24	Pass
NVNT	n(HT40)	5230	AntB	17.82	0.32	18.14	24	Pass
NVNT	ac(VHT20)	5180	AntB	17.27	0.16	17.43	24	Pass
NVNT	ac(VHT20)	5200	AntB	17.4	0.15	17.55	24	Pass
NVNT	ac(VHT20)	5240	AntB	17.66	0.17	17.83	24	Pass
NVNT	ac(VHT40)	5190	AntB	17.05	0.31	17.36	24	Pass
NVNT	ac(VHT40)	5230	AntB	17.81	0.31	18.12	24	Pass
NVNT	ac(VHT80)	5210	AntB	13.5	0.63	14.13	24	Pass

U-NII-2A

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	AntB	17.57	0.41	17.98	24	Pass
NVNT	a	5280	AntB	17.86	0.39	18.25	24	Pass
NVNT	a	5320	AntB	17.96	0.42	18.38	24	Pass
NVNT	n(HT20)	5260	AntB	17.61	0.17	17.78	24	Pass
NVNT	n(HT20)	5280	AntB	17.57	0.16	17.73	24	Pass
NVNT	n(HT20)	5320	AntB	17.78	0.14	17.92	24	Pass
NVNT	n(HT40)	5270	AntB	17.56	0.31	17.87	24	Pass
NVNT	n(HT40)	5310	AntB	17.66	0.34	18.00	24	Pass
NVNT	ac(VHT20)	5260	AntB	17.25	0.17	17.42	24	Pass
NVNT	ac(VHT20)	5280	AntB	17.4	0.16	17.56	24	Pass
NVNT	ac(VHT20)	5320	AntB	18.06	0.13	18.19	24	Pass
NVNT	ac(VHT40)	5270	AntB	17.54	0.31	17.85	24	Pass
NVNT	ac(VHT40)	5310	AntB	17.92	0.31	18.23	24	Pass
NVNT	ac(VHT80)	5290	AntB	11.45	0.69	12.14	24	Pass

U-NII-2C

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	AntB	18.6	0.36	18.96	24	Pass
NVNT	a	5600	AntB	17.58	0.44	18.02	24	Pass
NVNT	a	5700	AntB	17.87	0.42	18.29	24	Pass
NVNT	n(HT20)	5500	AntB	17.48	0.18	17.66	24	Pass
NVNT	n(HT20)	5600	AntB	16.77	0.18	16.95	24	Pass
NVNT	n(HT20)	5700	AntB	17.88	0.18	18.06	24	Pass
NVNT	n(HT40)	5510	AntB	16.26	0.35	16.61	24	Pass
NVNT	n(HT40)	5550	AntB	16.25	0.35	16.60	24	Pass
NVNT	n(HT40)	5670	AntB	17.78	0.34	18.12	24	Pass
NVNT	ac(VHT20)	5500	AntB	16.45	0.17	16.62	24	Pass
NVNT	ac(VHT20)	5600	AntB	16.62	0.17	16.79	24	Pass
NVNT	ac(VHT20)	5700	AntB	17.71	0.17	17.88	24	Pass
NVNT	ac(VHT40)	5510	AntB	16.38	0.31	16.69	24	Pass
NVNT	ac(VHT40)	5550	AntB	16.31	0.31	16.62	24	Pass
NVNT	ac(VHT40)	5670	AntB	17.75	0.28	18.03	24	Pass
NVNT	ac(VHT80)	5530	AntB	13.29	0.62	13.91	24	Pass
NVNT	ac(VHT80)	5610	AntB	13.08	0.62	13.7	24	Pass

U-NII-3

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	AntB	15.49	0.39	15.88	30	Pass
NVNT	a	5785	AntB	16.25	0.36	16.61	30	Pass
NVNT	a	5825	AntB	15.04	0.41	15.45	30	Pass
NVNT	n(HT20)	5745	AntB	16.83	0.17	17.00	30	Pass
NVNT	n(HT20)	5785	AntB	16.4	0.18	16.58	30	Pass
NVNT	n(HT20)	5825	AntB	15.23	0.17	15.40	30	Pass
NVNT	n(HT40)	5755	AntB	17.4	0.28	17.68	30	Pass
NVNT	n(HT40)	5795	AntB	16.1	0.31	16.41	30	Pass
NVNT	ac(VHT20)	5745	AntB	17.28	0.22	17.50	30	Pass
NVNT	ac(VHT20)	5785	AntB	16.44	0.14	16.58	30	Pass
NVNT	ac(VHT20)	5825	AntB	15.47	0.17	15.64	30	Pass
NVNT	ac(VHT40)	5755	AntB	17.27	0.28	17.55	30	Pass
NVNT	ac(VHT40)	5795	AntB	16.2	0.29	16.49	30	Pass
NVNT	ac(VHT80)	5775	AntB	10.46	0.66	11.12	30	Pass

4. Maximum Power Spectral Density

Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
ac(VHT80)	5210	AntB	-4.737	11	Pass
a	5180	AntB	4.997	11	Pass
a	5200	AntB	5.531	11	Pass
a	5240	AntB	6.126	11	Pass
ac(VHT20)	5180	AntB	5.61	11	Pass
ac(VHT20)	5200	AntB	5.598	11	Pass
ac(VHT20)	5240	AntB	5.702	11	Pass
ac(VHT40)	5190	AntB	2.314	11	Pass
ac(VHT40)	5230	AntB	2.977	11	Pass
n(HT20)	5180	AntB	5.149	11	Pass
n(HT20)	5200	AntB	5.497	11	Pass
n(HT20)	5240	AntB	5.927	11	Pass
n(HT40)	5190	AntB	2.525	11	Pass
n(HT40)	5230	AntB	2.871	11	Pass
Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
a	5260	AntB	5.766	11	Pass
a	5280	AntB	6.24	11	Pass
a	5320	AntB	6.397	11	Pass
ac(VHT20)	5260	AntB	5.402	11	Pass
ac(VHT20)	5280	AntB	5.608	11	Pass
ac(VHT20)	5320	AntB	6.635	11	Pass
ac(VHT40)	5270	AntB	2.919	11	Pass
ac(VHT40)	5310	AntB	3.179	11	Pass
ac(VHT80)	5290	AntB	-6.868	11	Pass
n(HT20)	5260	AntB	6.076	11	Pass
n(HT20)	5280	AntB	5.868	11	Pass
n(HT20)	5320	AntB	6.247	11	Pass
n(HT40)	5270	AntB	2.633	11	Pass
n(HT40)	5310	AntB	2.855	11	Pass

Mode	Frequency (MHz)	Antenna	Max PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
a	5500	AntB	6.249	11	Pass
a	5600	AntB	5.499	11	Pass
a	5700	AntB	5.334	11	Pass
ac(VHT20)	5500	AntB	4.548	11	Pass
ac(VHT20)	5600	AntB	4.431	11	Pass
ac(VHT20)	5700	AntB	5.412	11	Pass
ac(VHT40)	5510	AntB	1.614	11	Pass
ac(VHT40)	5550	AntB	1.42	11	Pass
ac(VHT40)	5670	AntB	2.601	11	Pass
ac(VHT80)	5530	AntB	-4.498	11	Pass
ac(VHT80)	5610	AntB	-5.044	11	Pass
n(HT20)	5500	AntB	5.7	11	Pass
n(HT20)	5600	AntB	4.555	11	Pass
n(HT20)	5700	AntB	5.564	11	Pass
n(HT40)	5510	AntB	1.228	11	Pass
n(HT40)	5550	AntB	1.616	11	Pass
n(HT40)	5670	AntB	2.188	11	Pass
Mode	Frequency (MHz)	Antenna	Max PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
a	5745	AntB	0.223	30	Pass
a	5785	AntB	1.387	30	Pass
a	5825	AntB	0.525	30	Pass
ac(VHT20)	5745	AntB	2.217	30	Pass
ac(VHT20)	5785	AntB	1.436	30	Pass
ac(VHT20)	5825	AntB	1.49	30	Pass
ac(VHT40)	5755	AntB	-0.298	30	Pass
ac(VHT40)	5795	AntB	-1.447	30	Pass
ac(VHT80)	5775	AntB	-10.036	30	Pass
n(HT20)	5745	AntB	2.334	30	Pass
n(HT20)	5785	AntB	1.706	30	Pass
n(HT20)	5825	AntB	0.749	30	Pass
n(HT40)	5755	AntB	-0.57	30	Pass
n(HT40)	5795	AntB	-2.995	30	Pass

Test Graphs

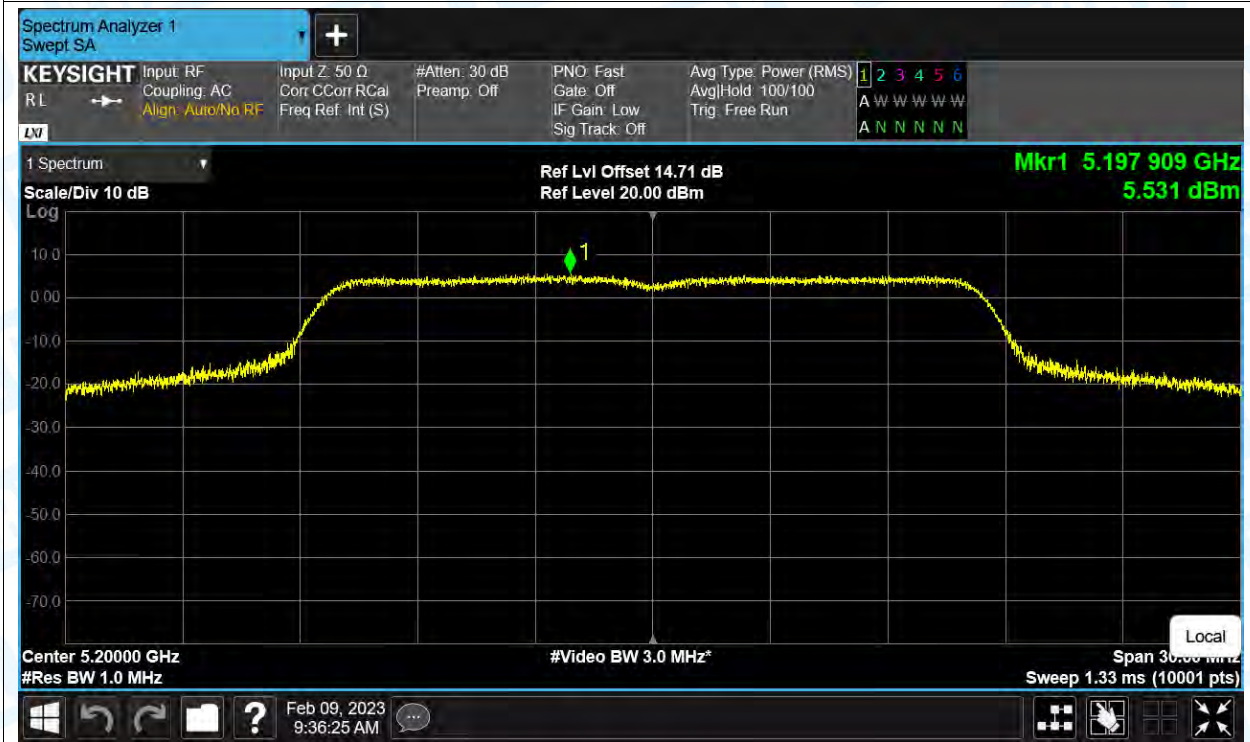
PSD NVNT ac(VHT80) 5210MHz AntB



PSD NVNT a 5180MHz AntB



PSD NVNT a 5200MHz AntB



PSD NVNT a 5240MHz AntB

