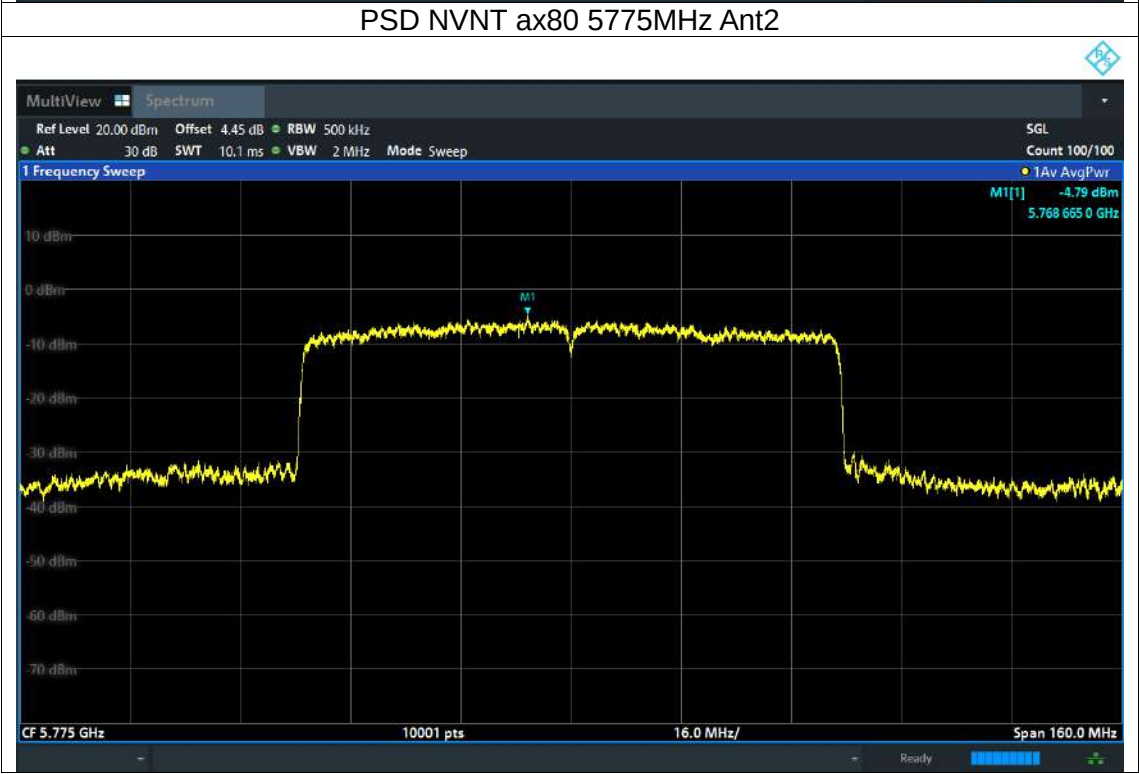
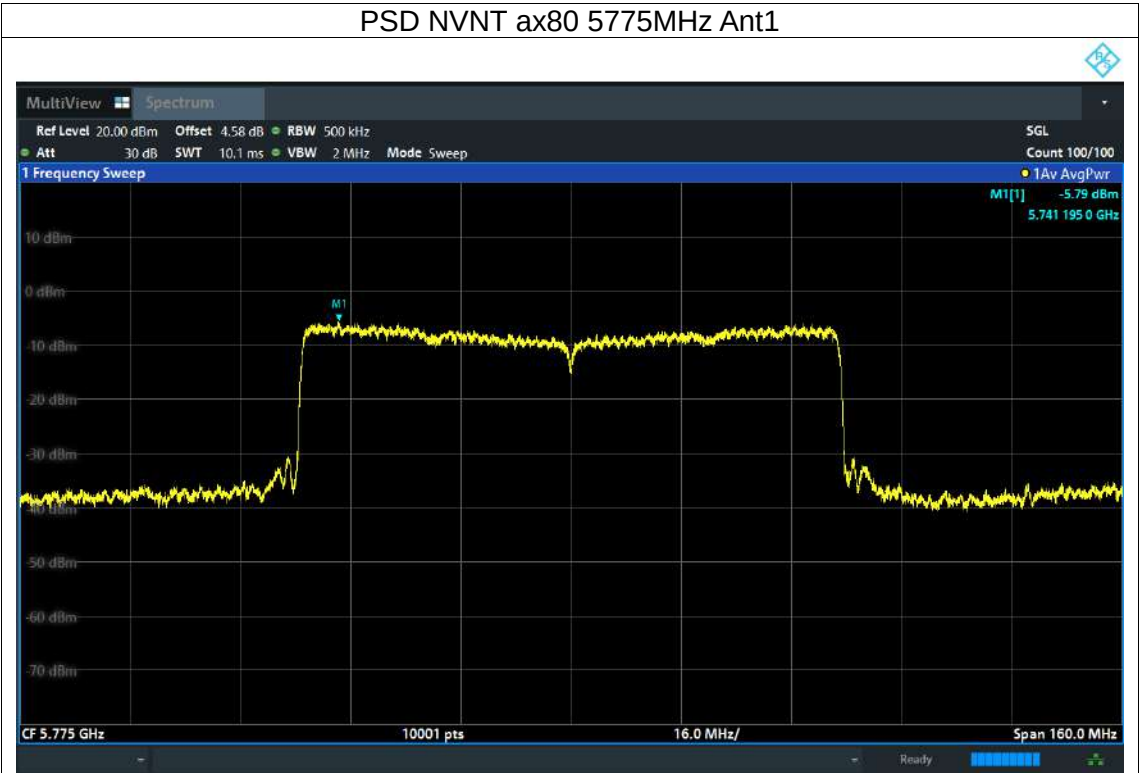




5.6 26dB Emission Bandwidth and Occupied bandwidth

5.6.1 Limit

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier

5.6.2 Test Procedure

26dB Emission bandwidth

Set RBW = approximately 1% of the emission bandwidth.

Set VBW $\geq 3 \times \text{RBW}$

Detector = Peak.

Trace mode = Max hold.

Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

Set Span = 1.5 times to 5.0 times the OBW

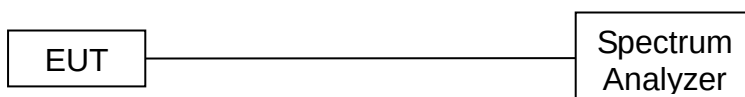
Set RBW = 1% to 5% of the OBW.

Set VBW $\geq 3 \times \text{RBW}$, Detector = Peak.

Trace mode = Max hold.

Use the 99% power bandwidth function of the instrument.

5.6.3 Test Setup



5.6.4 Test Results

For U-NII-1

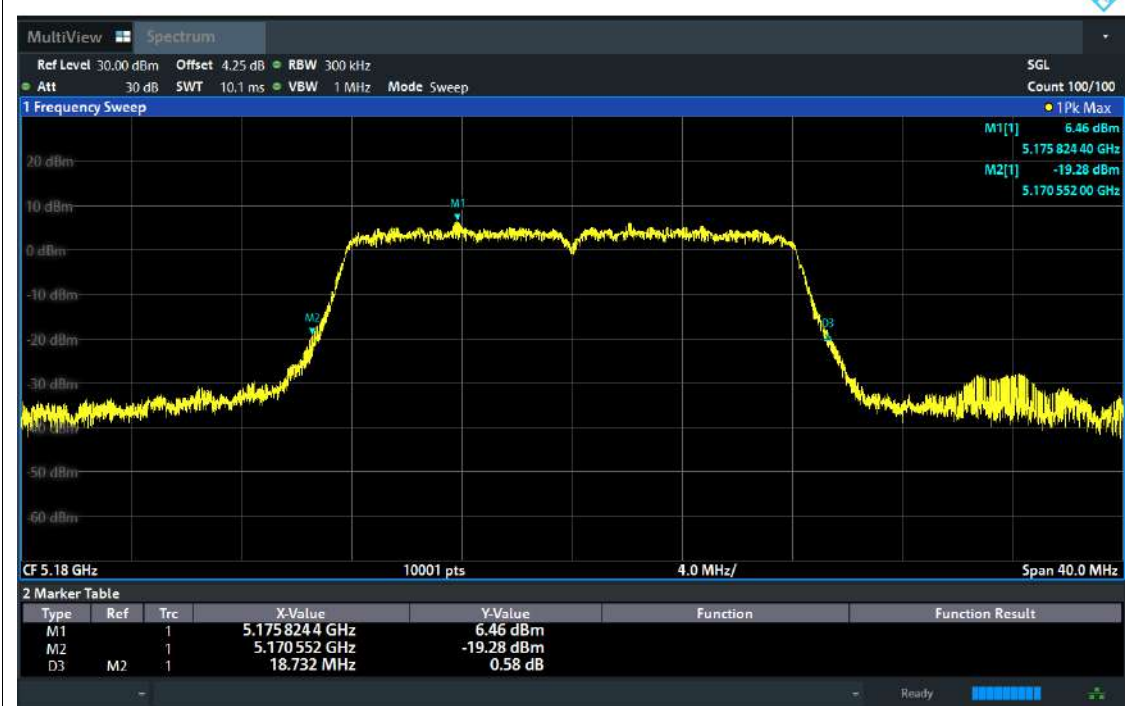
ANT1:

Channel	Test Channel	Frequency (MHz)	26dB bandwidth (MHz)	Limit (kHz)	99% bandwidth (MHz)	Limit (kHz)	Result
11a	CH36	5180	18.732	/	16.339	/	Pass
11a	CH40	5200	18.672	/	16.336	/	Pass
11a	CH48	5240	18.708	/	16.345	/	Pass
11n (HT20)	CH36	5180	19.68	/	17.483	/	Pass
11n (HT20)	CH40	5200	19.716	/	17.477	/	Pass
11n (HT20)	CH48	5240	19.648	/	17.483	/	Pass
11n (HT40)	CH38	5190	39.4	/	36.046	/	Pass
11n (HT40)	CH46	5230	39.416	/	36.1	/	Pass
11ac (HT20)	CH36	5180	19.548	/	17.483	/	Pass
11ac (HT20)	CH40	5200	19.504	/	17.475	/	Pass
11ac (HT20)	CH48	5240	19.6	/	17.476	/	Pass
11ac (HT40)	CH38	5190	38.976	/	35.965	/	Pass
11ac (HT40)	CH46	5230	39.104	/	36.015	/	Pass
11ac (HT80)	CH42	5210	82.736	/	75.06	/	Pass
11ax (HT20)	CH36	5180	20.132	/	18.824	/	Pass
11ax (HT20)	CH40	5200	20.084	/	18.818	/	Pass
11ax (HT20)	CH48	5240	20.116	/	18.827	/	Pass
11ax (HT40)	CH38	5190	40.216	/	37.737	/	Pass
11ax (HT40)	CH46	5230	40.208	/	37.809	/	Pass
11ax (HT80)	CH42	5210	80.464	/	76.276	/	Pass

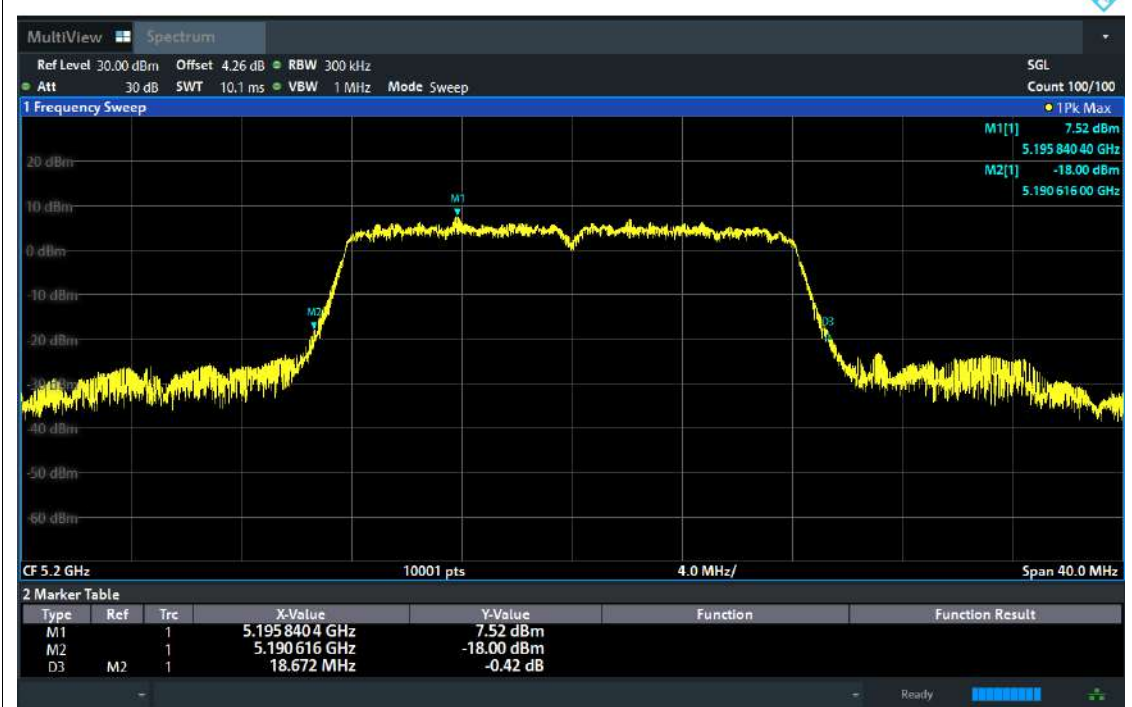
ANT2:

Channel	Test Channel	Frequency (MHz)	26dB bandwidth (MHz)	Limit (kHz)	99% bandwidth (MHz)	Limit (kHz)	Result
11a	CH36	5180	18.656	/	16.34	/	Pass
11a	CH40	5200	18.648	/	16.365	/	Pass
11a	CH48	5240	18.636	/	16.385	/	Pass
11n (HT20)	CH36	5180	19.392	/	17.513	/	Pass
11n (HT20)	CH40	5200	19.416	/	17.524	/	Pass
11n (HT20)	CH48	5240	19.46	/	17.524	/	Pass
11n (HT40)	CH38	5190	38.744	/	36.045	/	Pass
11n (HT40)	CH46	5230	38.824	/	36.021	/	Pass
11ac (HT20)	CH36	5180	19.368	/	17.509	/	Pass
11ac (HT20)	CH40	5200	19.368	/	17.514	/	Pass
11ac (HT20)	CH48	5240	19.42	/	17.518	/	Pass
11ac (HT40)	CH38	5190	38.672	/	35.986	/	Pass
11ac (HT40)	CH46	5230	38.736	/	35.981	/	Pass
11ac (HT80)	CH42	5210	85.456	/	76.246	/	Pass
11ax (HT20)	CH36	5180	20.572	/	18.888	/	Pass
11ax (HT20)	CH40	5200	20.588	/	18.892	/	Pass
11ax (HT20)	CH48	5240	20.58	/	18.902	/	Pass
11ax (HT40)	CH38	5190	40.08	/	37.79	/	Pass
11ax (HT40)	CH46	5230	40.04	/	37.783	/	Pass
11ax (HT80)	CH42	5210	81.296	/	77.264	/	Pass

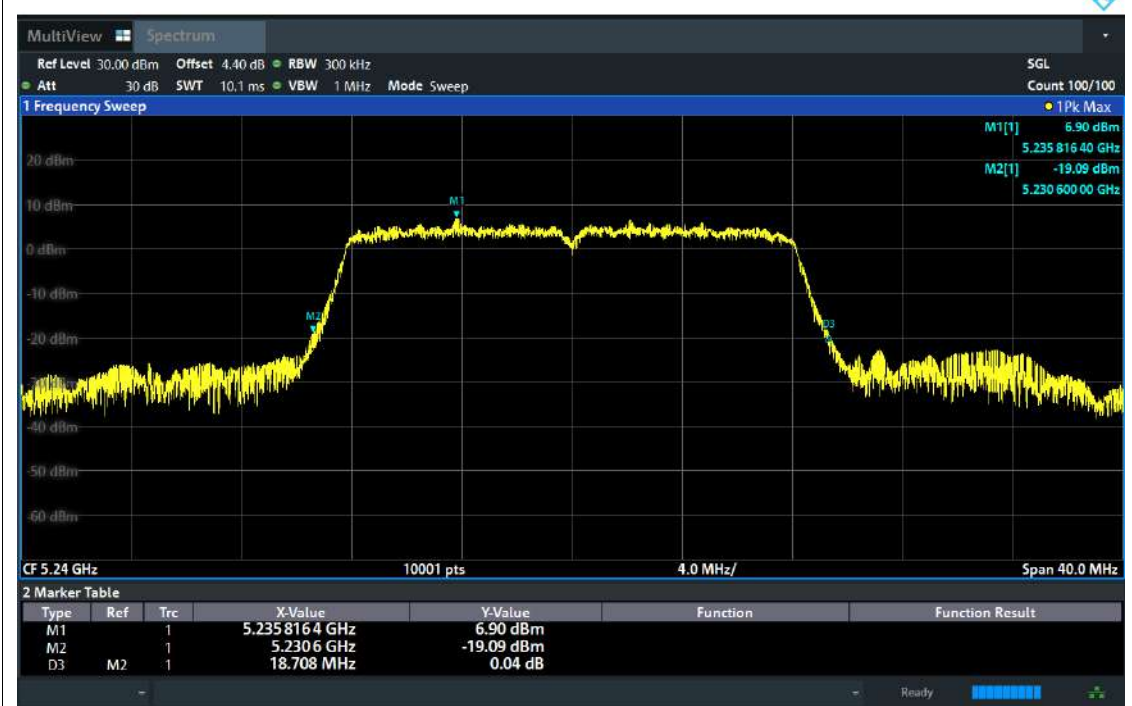
-26dB Bandwidth NVNT a 5180MHz Ant1



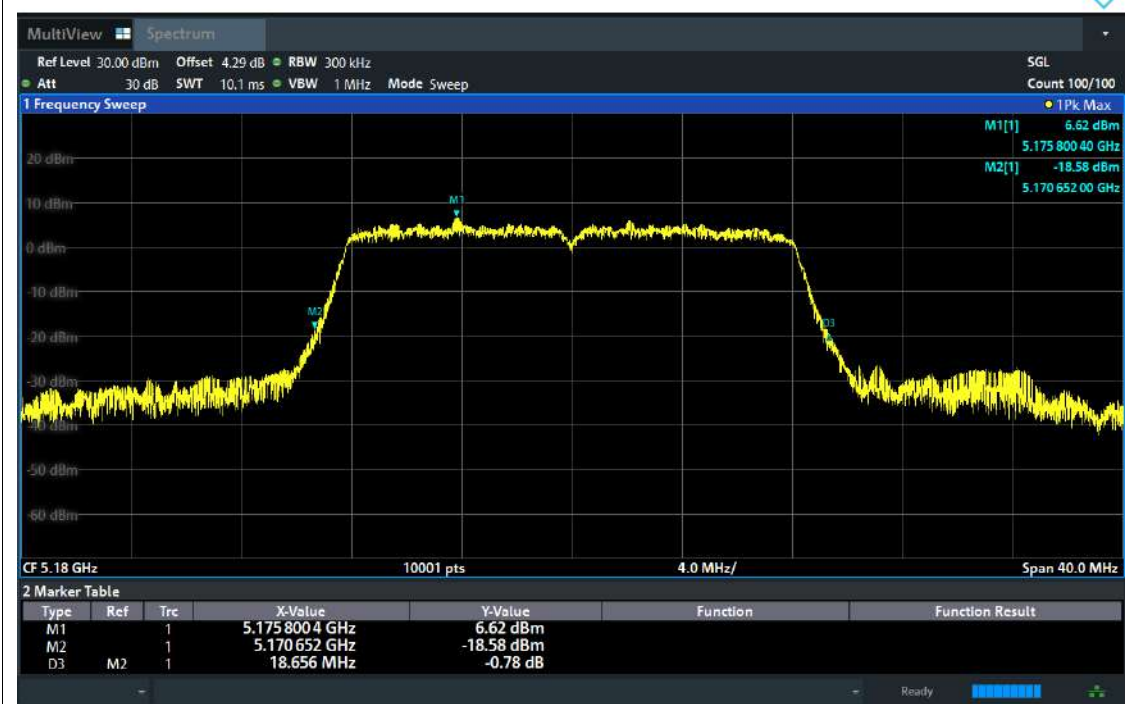
-26dB Bandwidth NVNT a 5200MHz Ant1



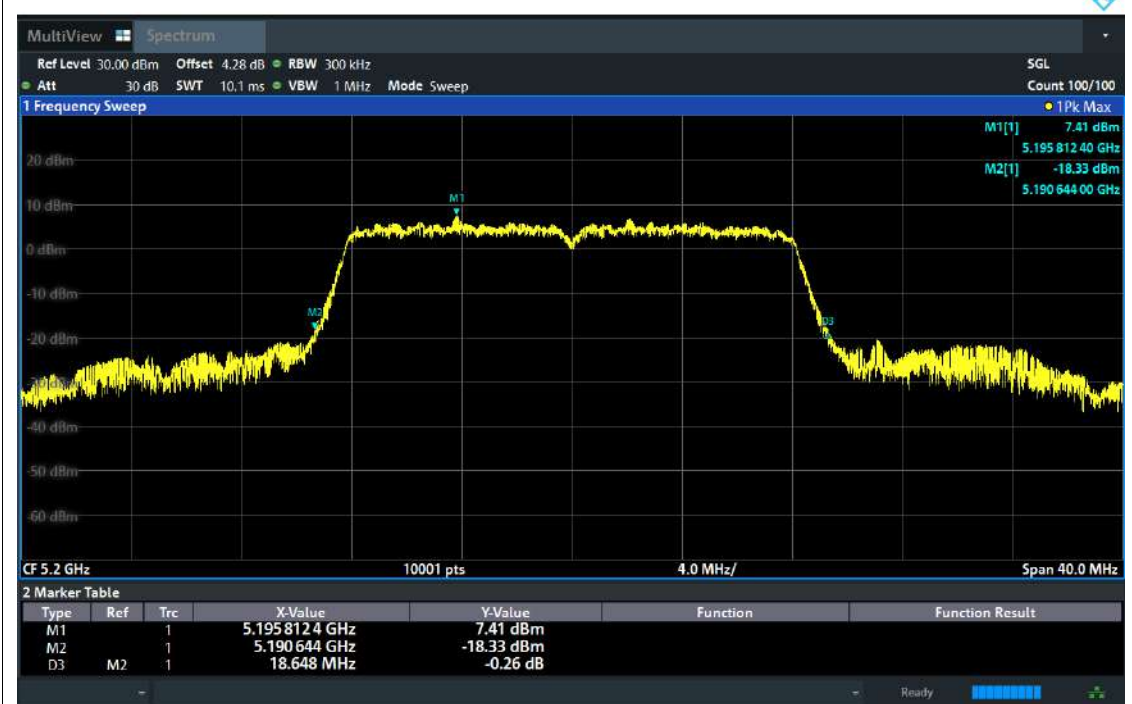
-26dB Bandwidth NVNT a 5240MHz Ant1



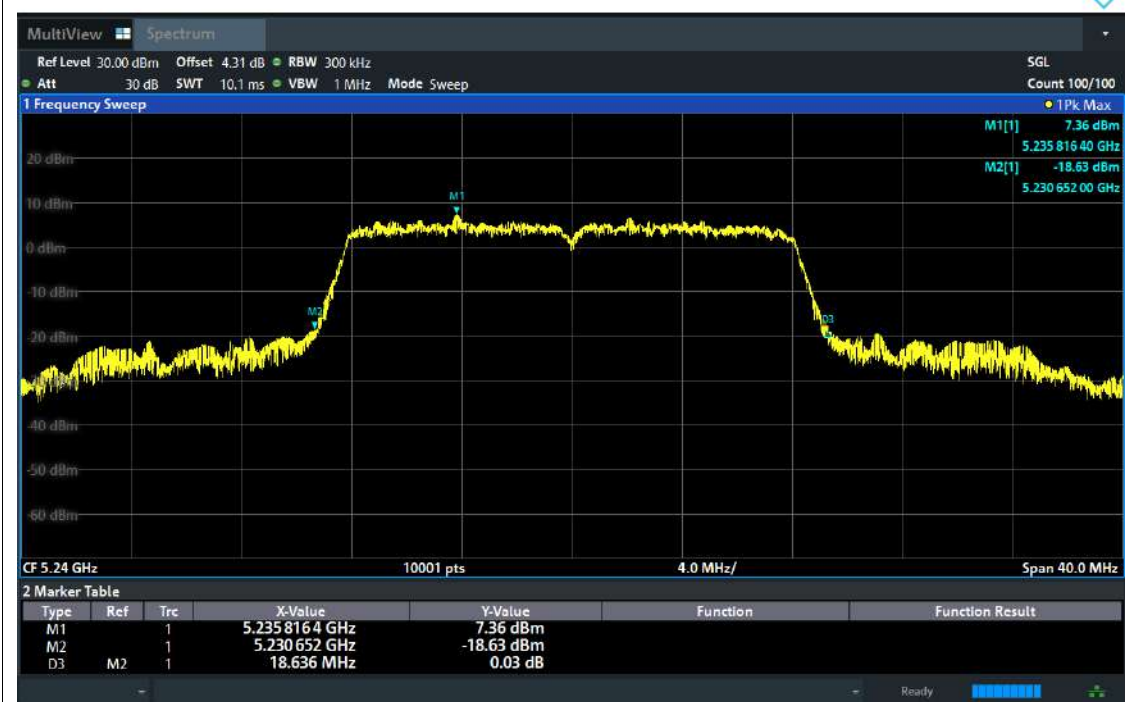
-26dB Bandwidth NVNT a 5180MHz Ant2



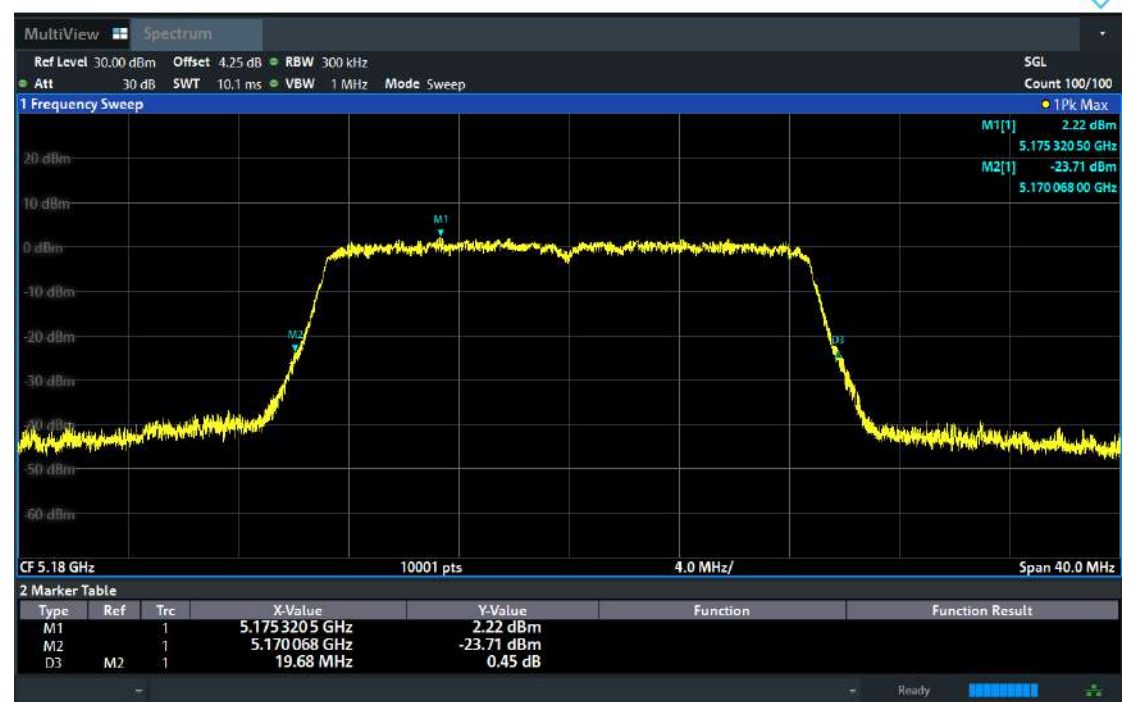
-26dB Bandwidth NVNT a 5200MHz Ant2



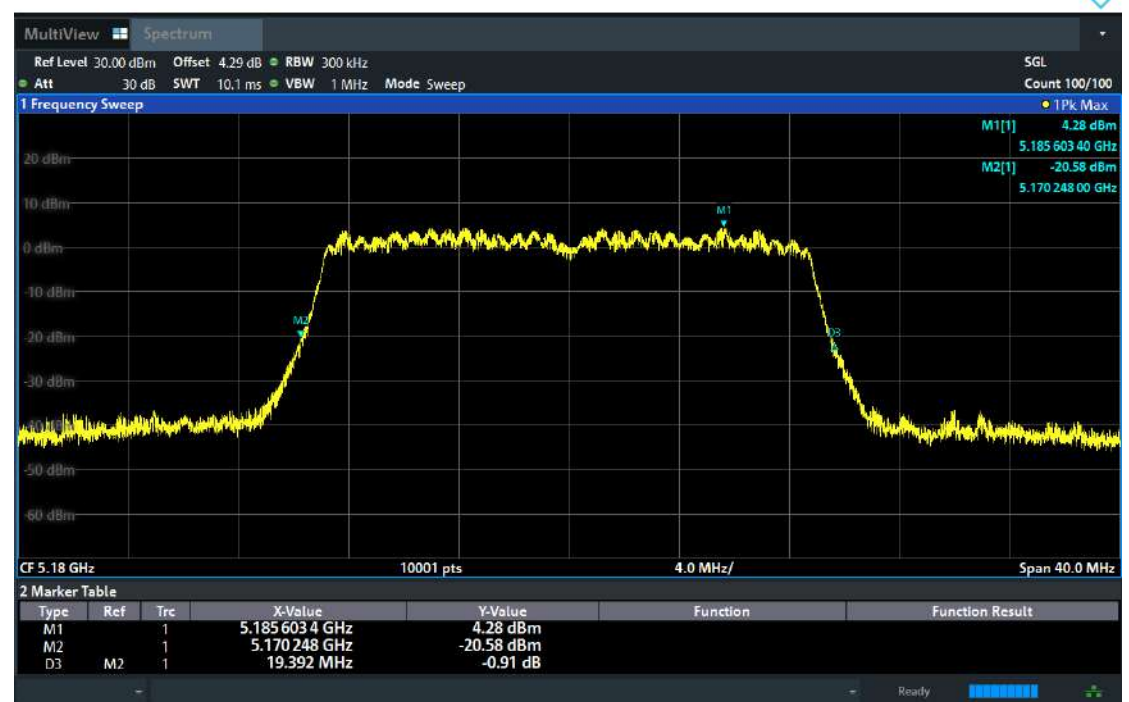
-26dB Bandwidth NVNT a 5240MHz Ant2



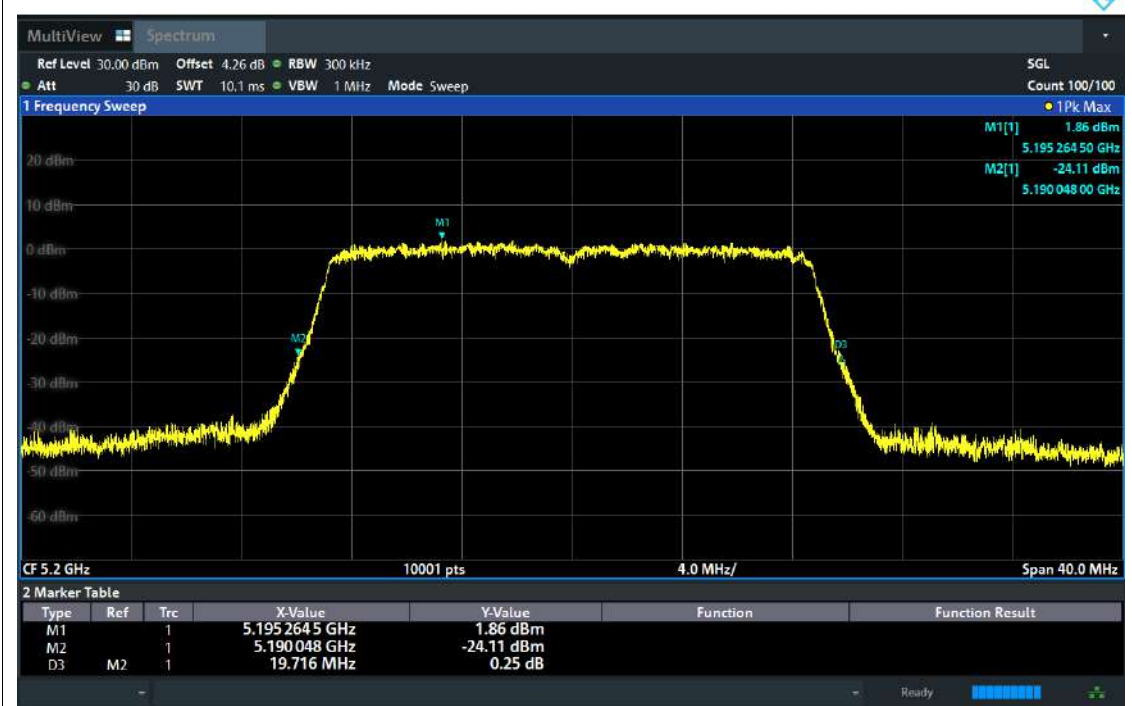
-26dB Bandwidth NVNT n20 5180MHz Ant1



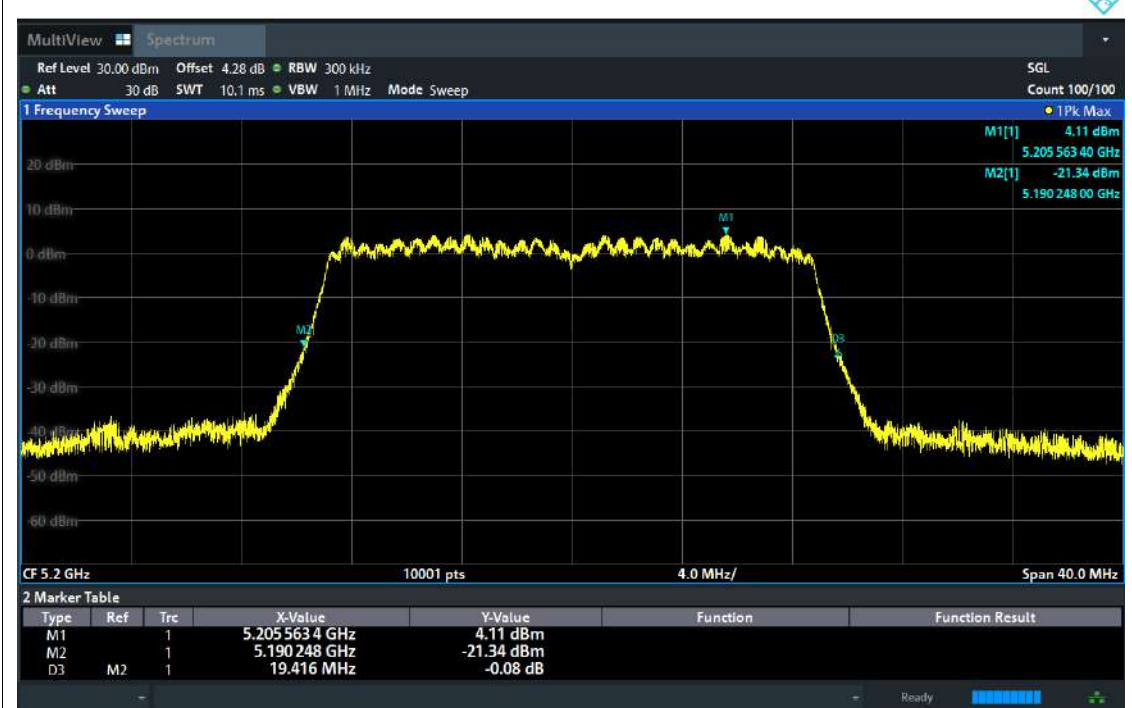
-26dB Bandwidth NVNT n20 5180MHz Ant2



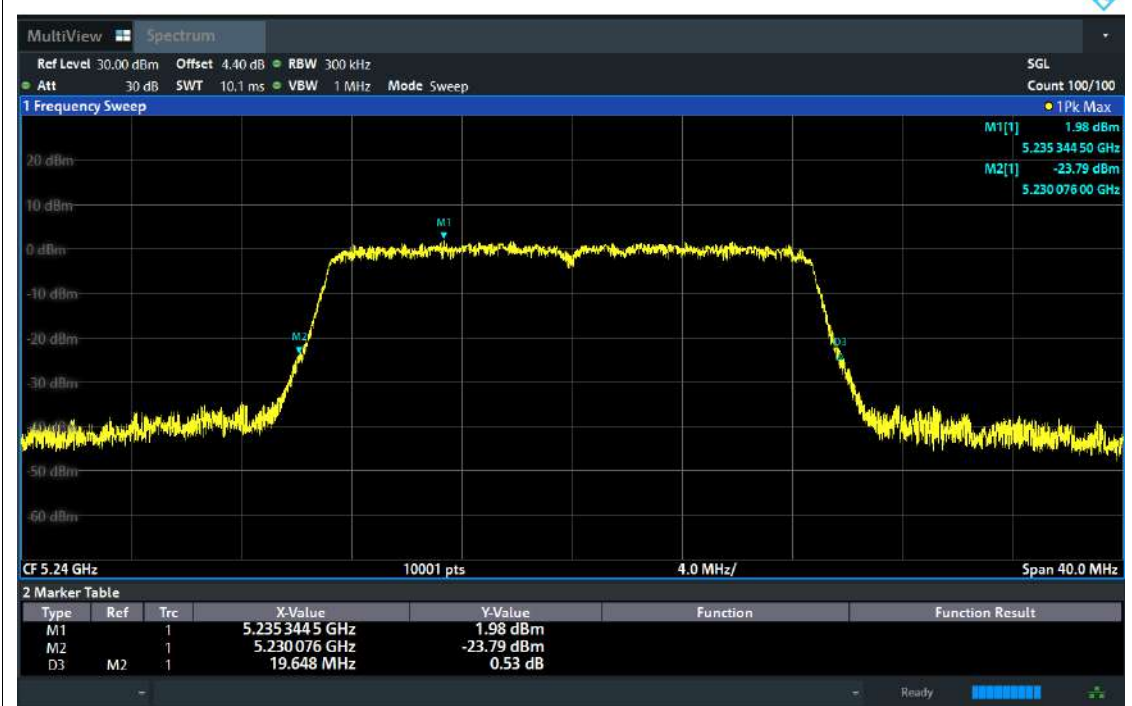
-26dB Bandwidth NVNT n20 5200MHz Ant1



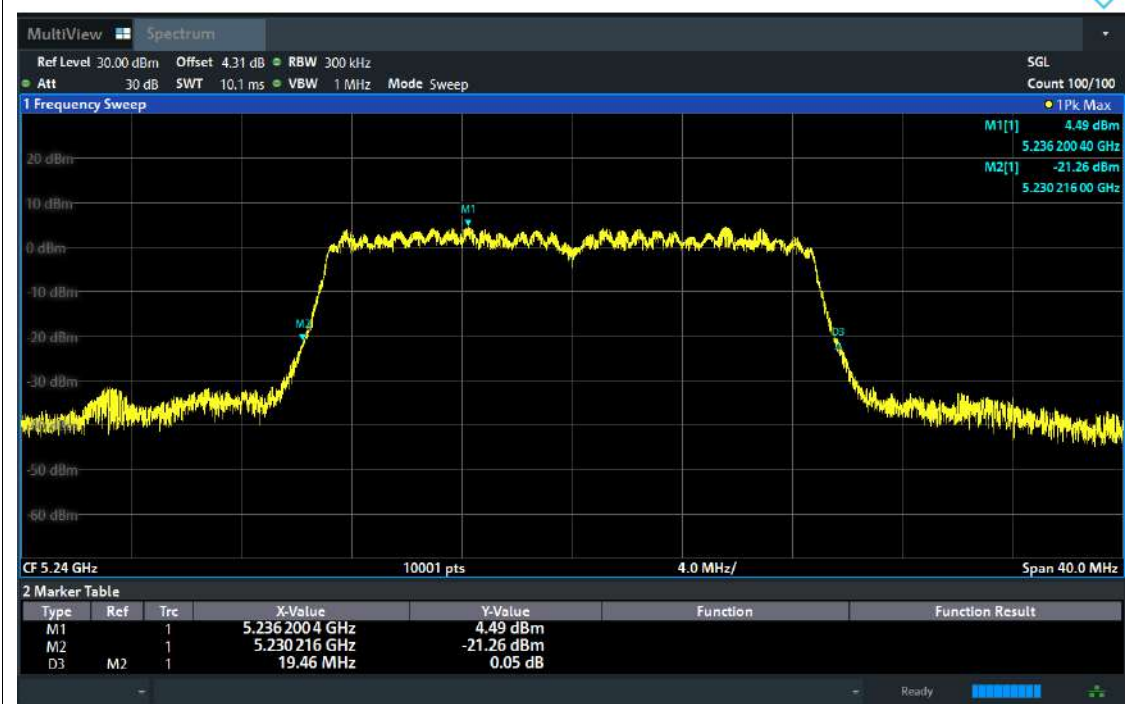
-26dB Bandwidth NVNT n20 5200MHz Ant2



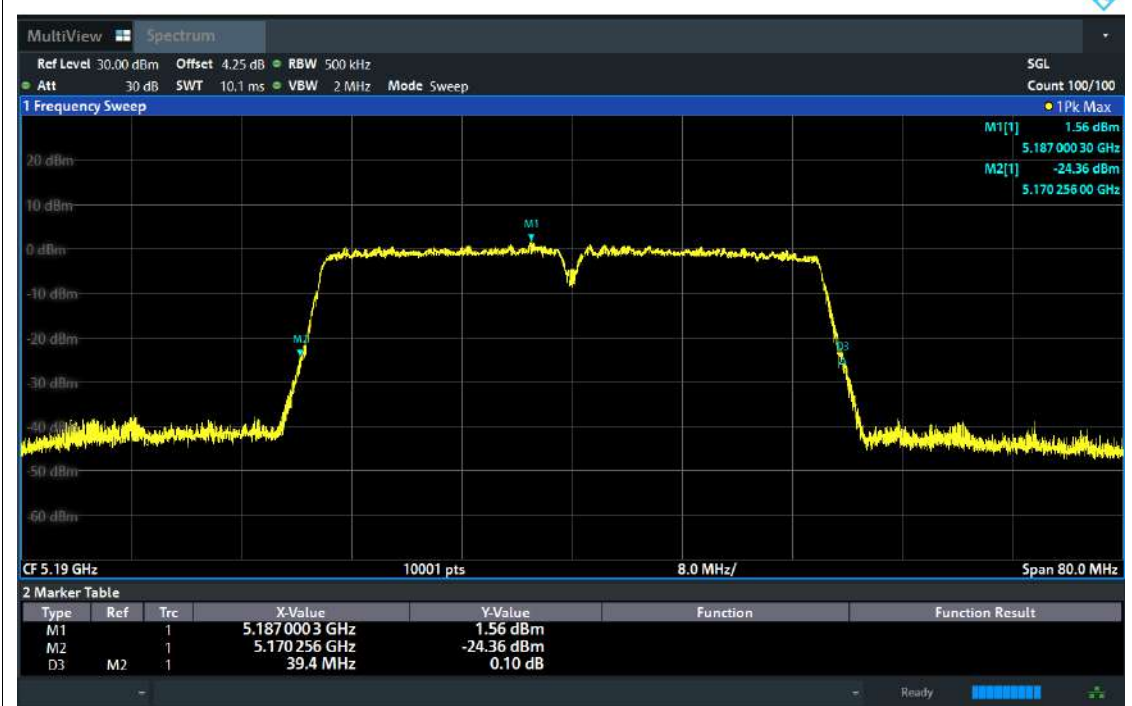
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-26dB Bandwidth NVNT n20 5240MHz Ant2



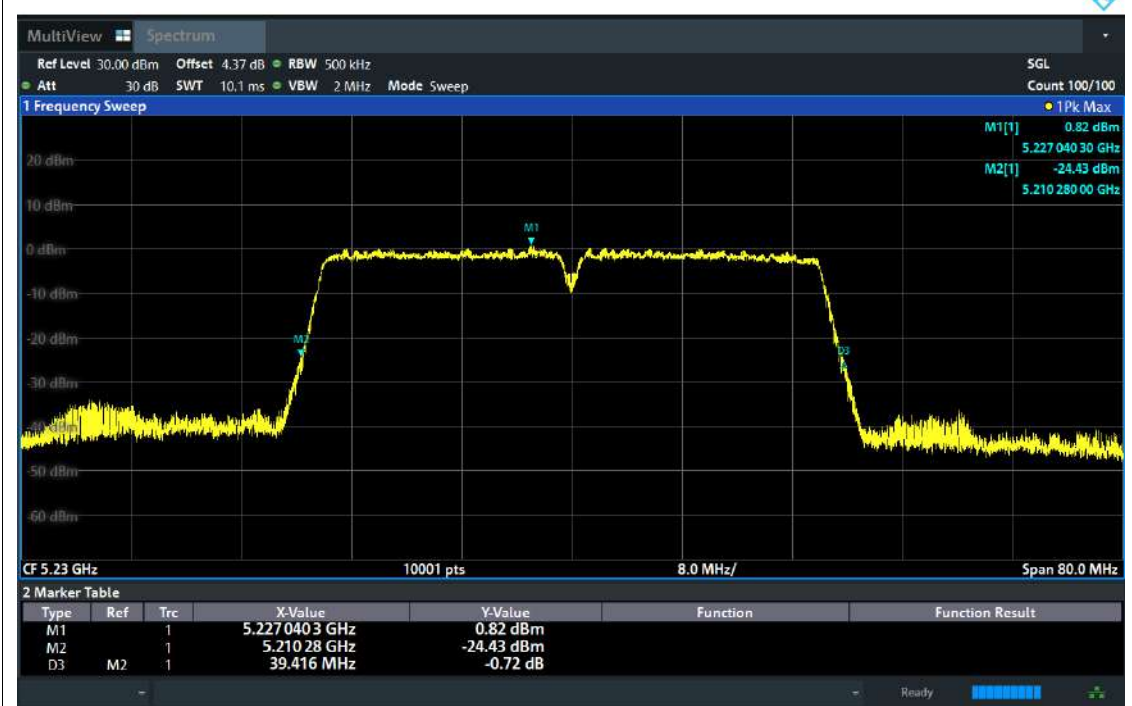
-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant2



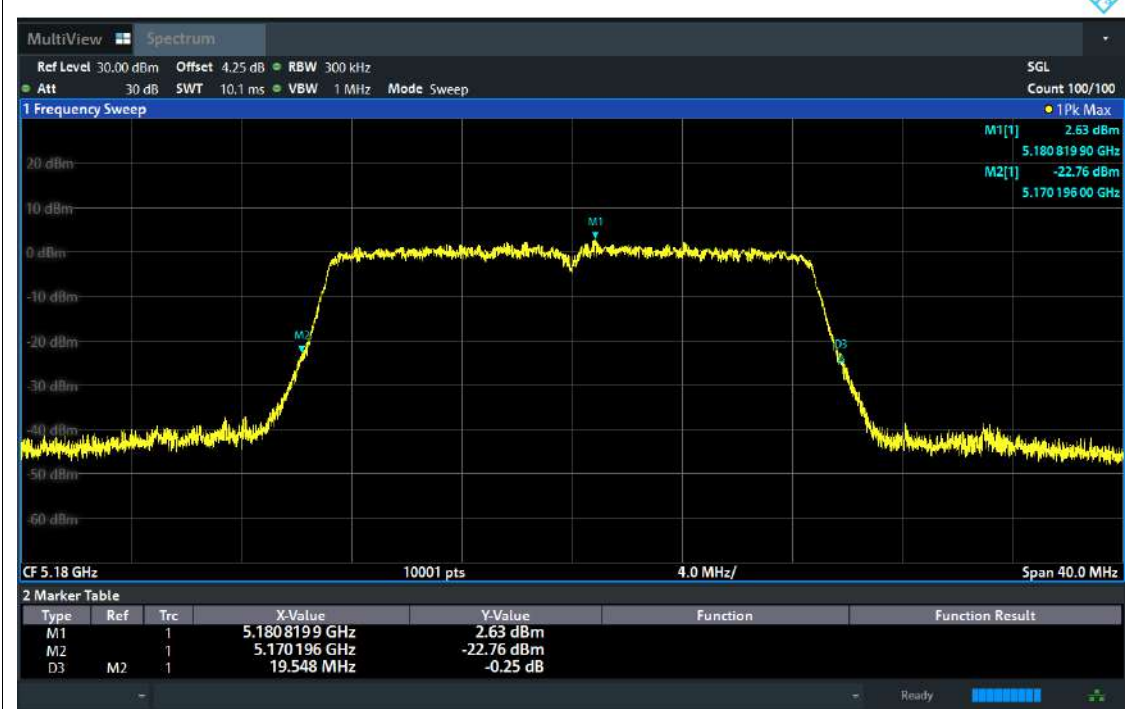
-26dB Bandwidth NVNT n40 5230MHz Ant1



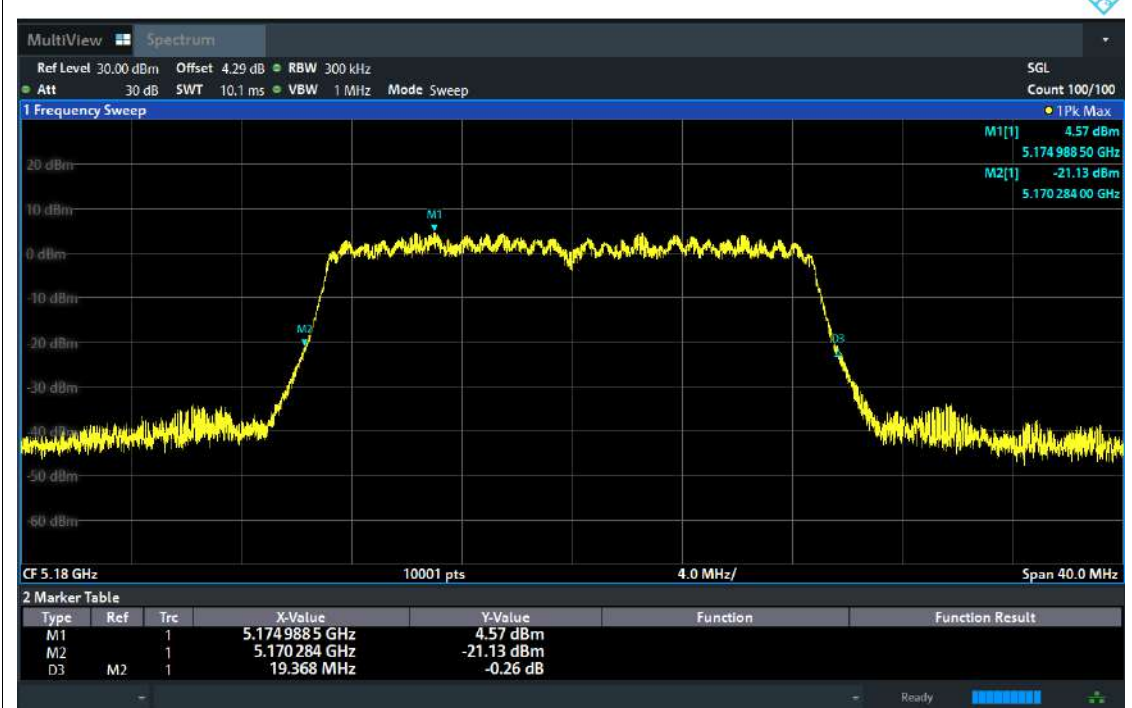
-26dB Bandwidth NVNT n40 5230MHz Ant2



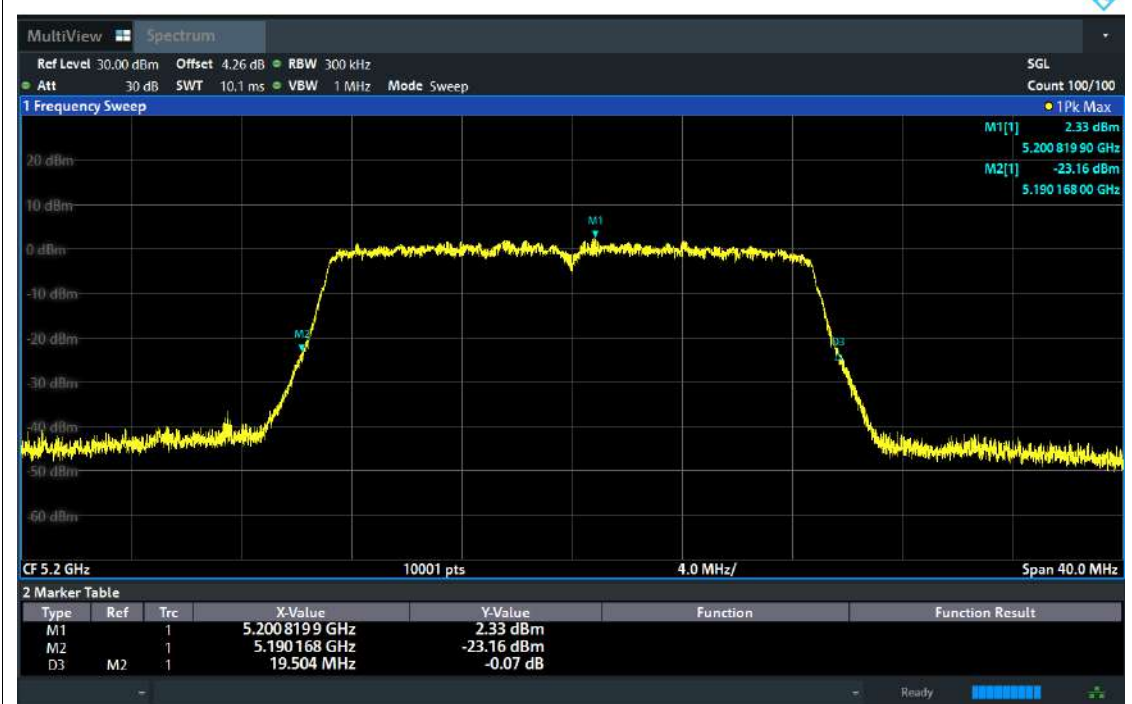
-26dB Bandwidth NVNT ac20 5180MHz Ant1



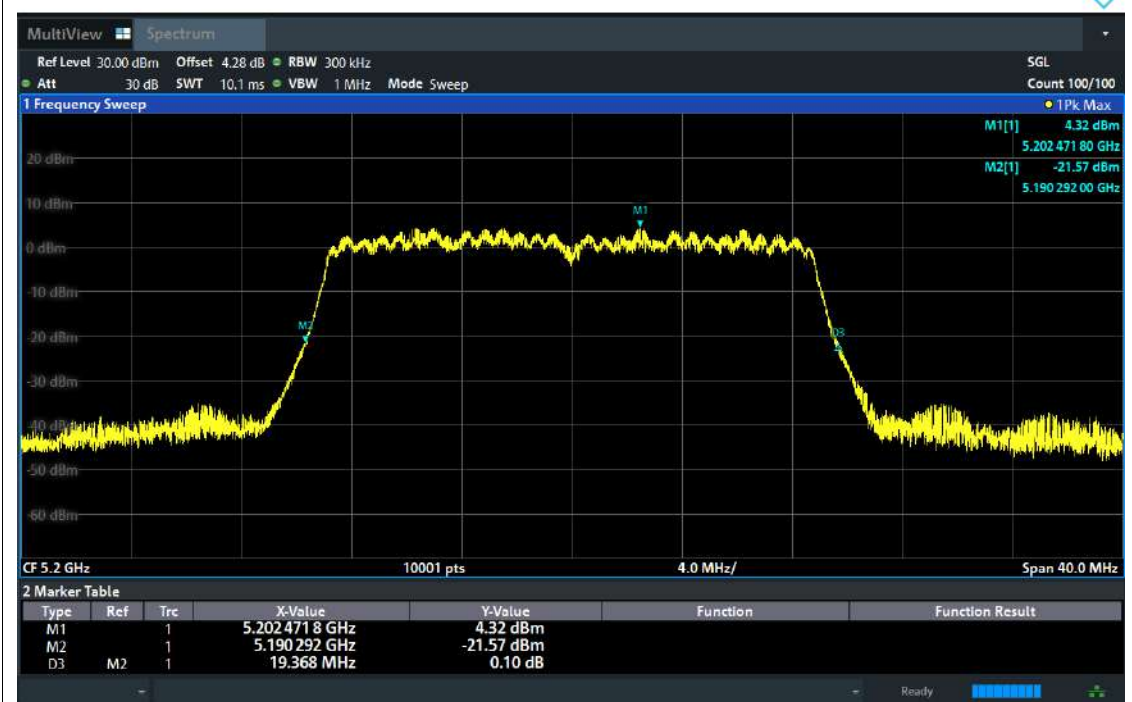
-26dB Bandwidth NVNT ac20 5180MHz Ant2



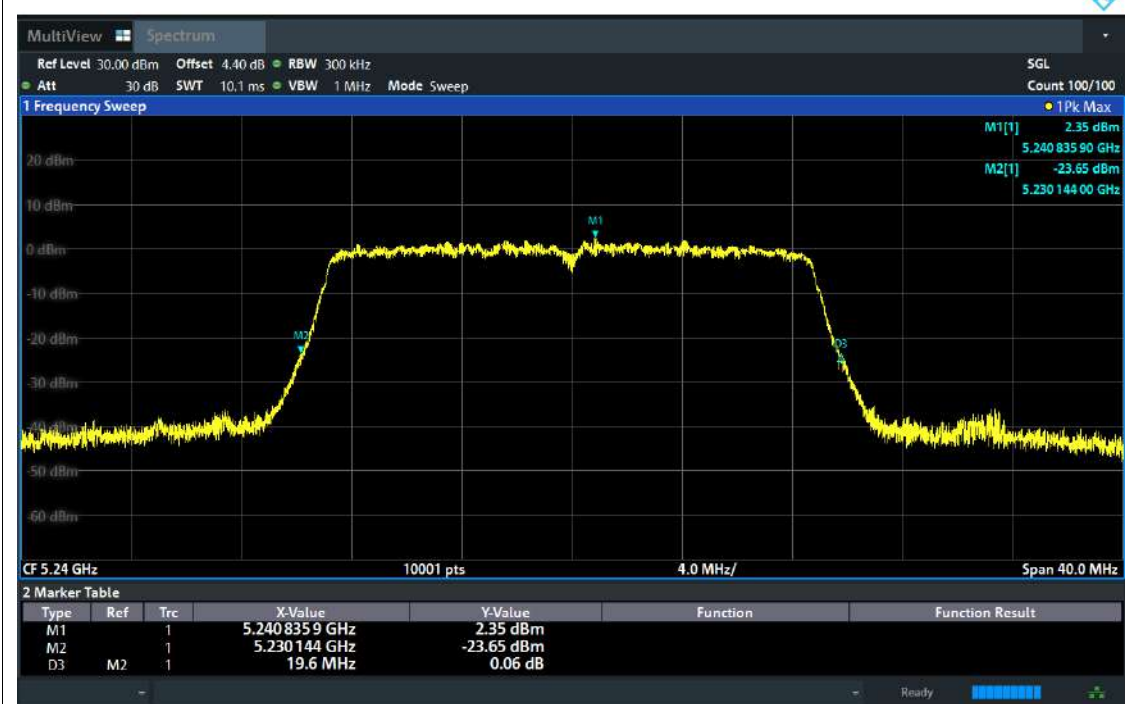
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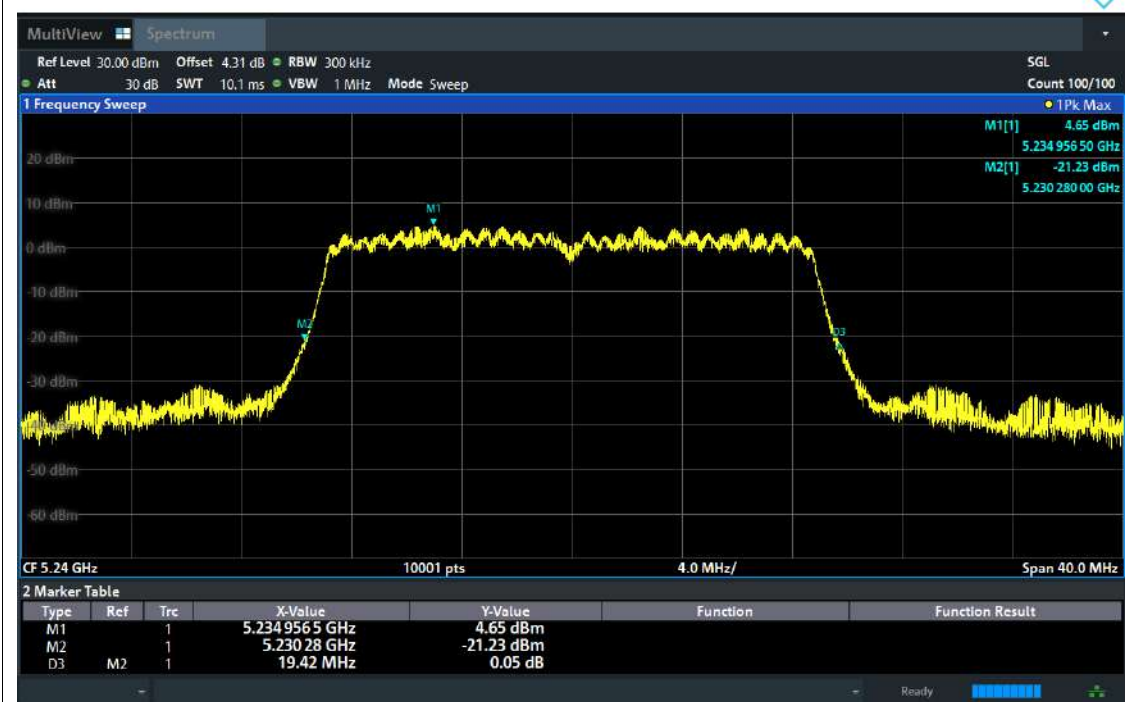
-26dB Bandwidth NVNT ac20 5200MHz Ant2



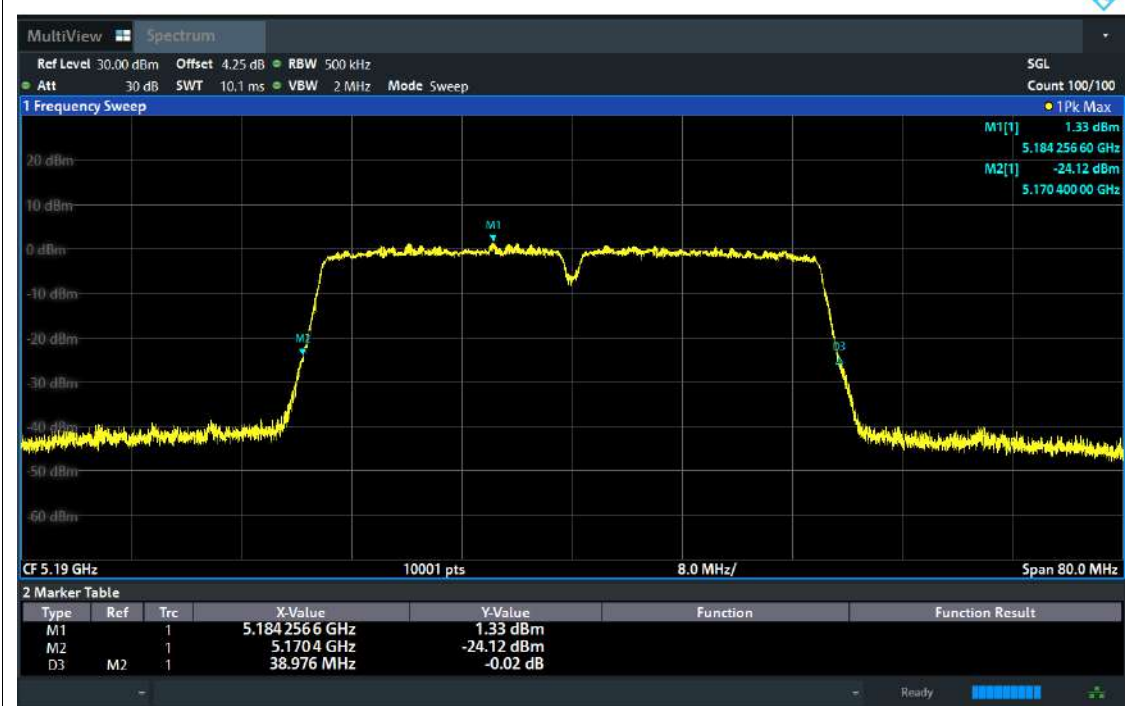
-26dB Bandwidth NVNT ac20 5240MHz Ant1



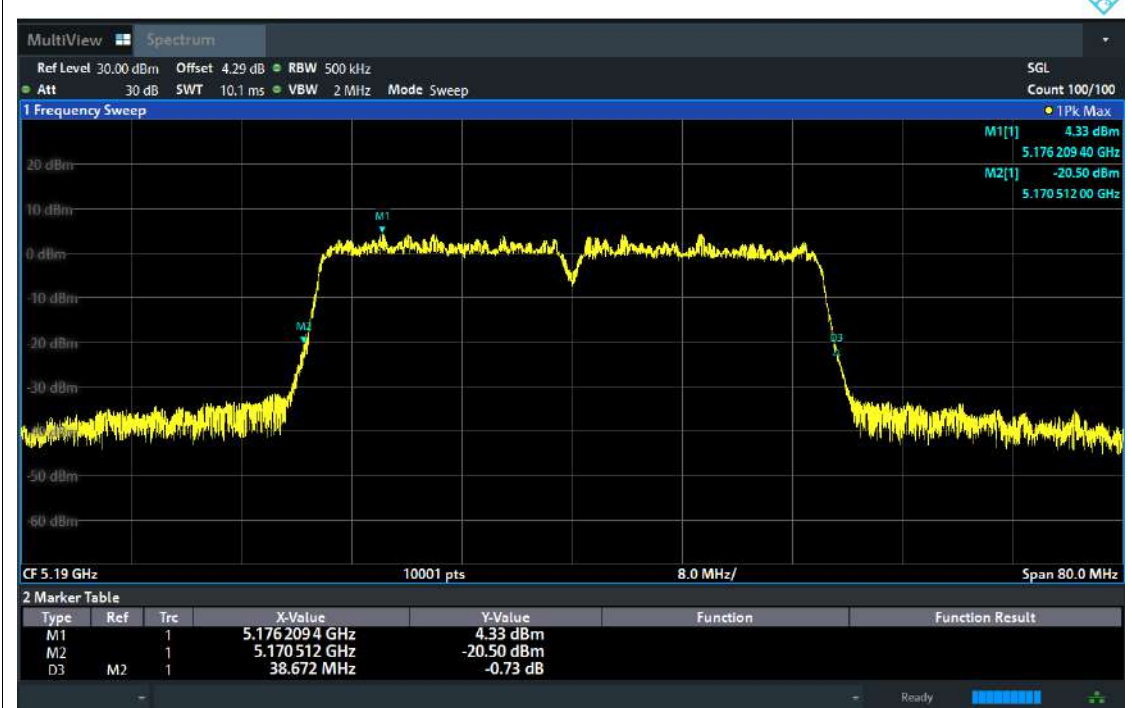
-26dB Bandwidth NVNT ac20 5240MHz Ant2



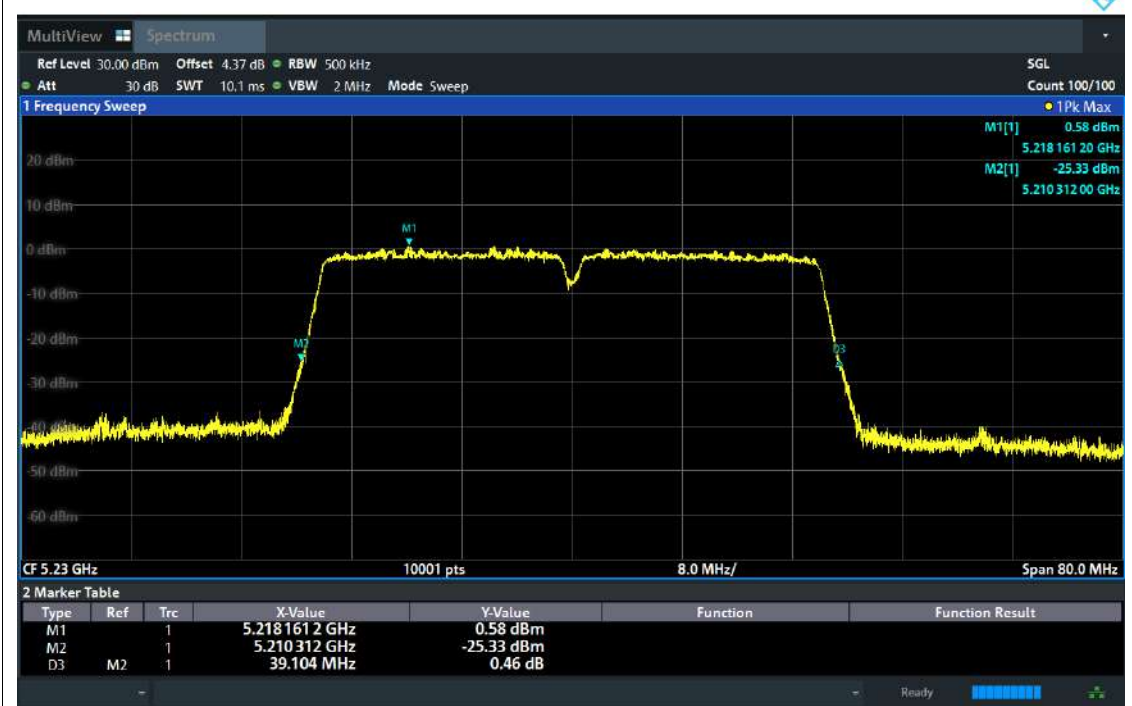
-26dB Bandwidth NVNT ac40 5190MHz Ant1



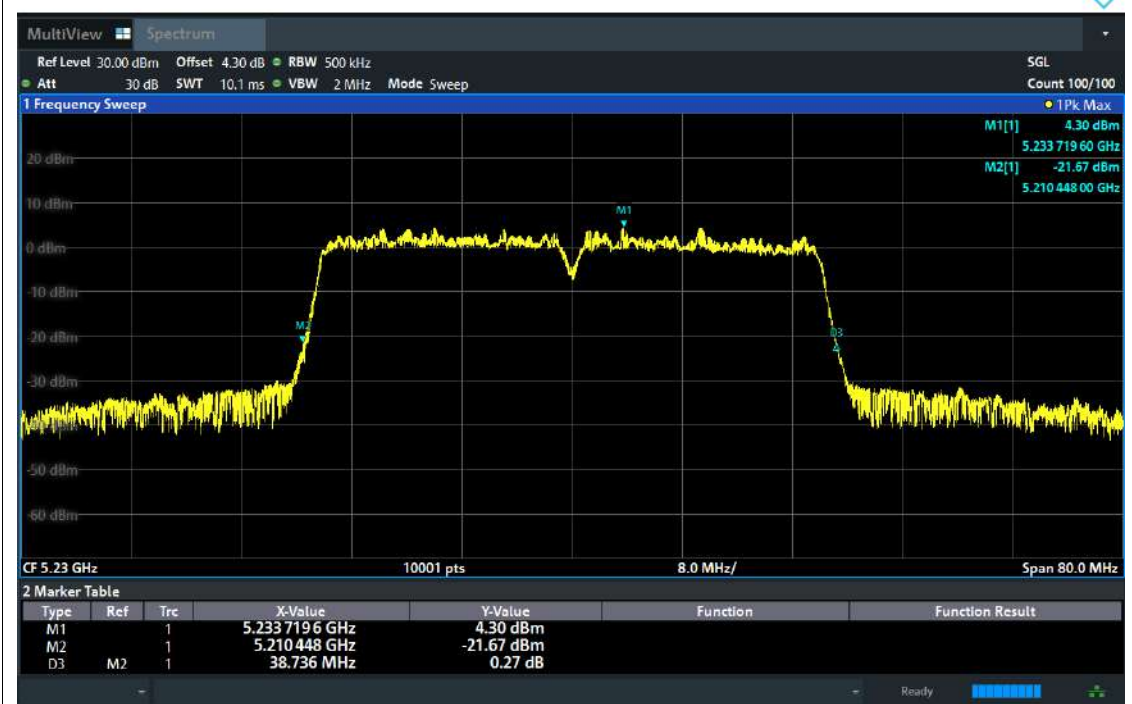
-26dB Bandwidth NVNT ac40 5190MHz Ant2



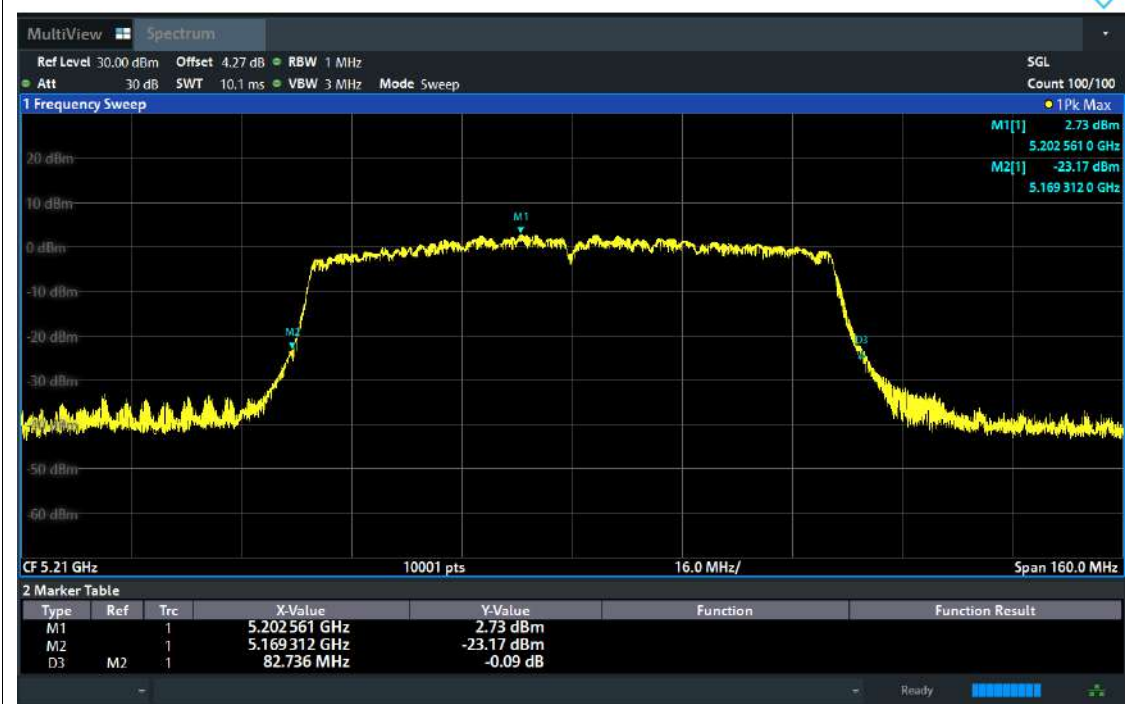
-26dB Bandwidth NVNT ac40 5230MHz Ant1



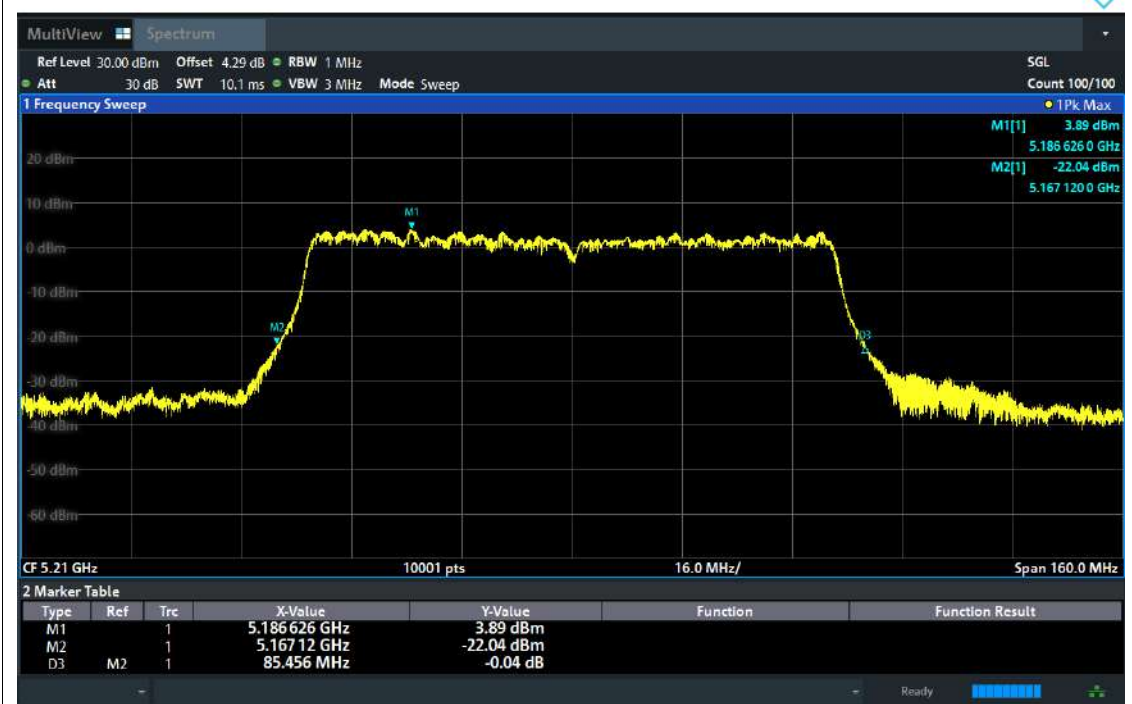
-26dB Bandwidth NVNT ac40 5230MHz Ant2

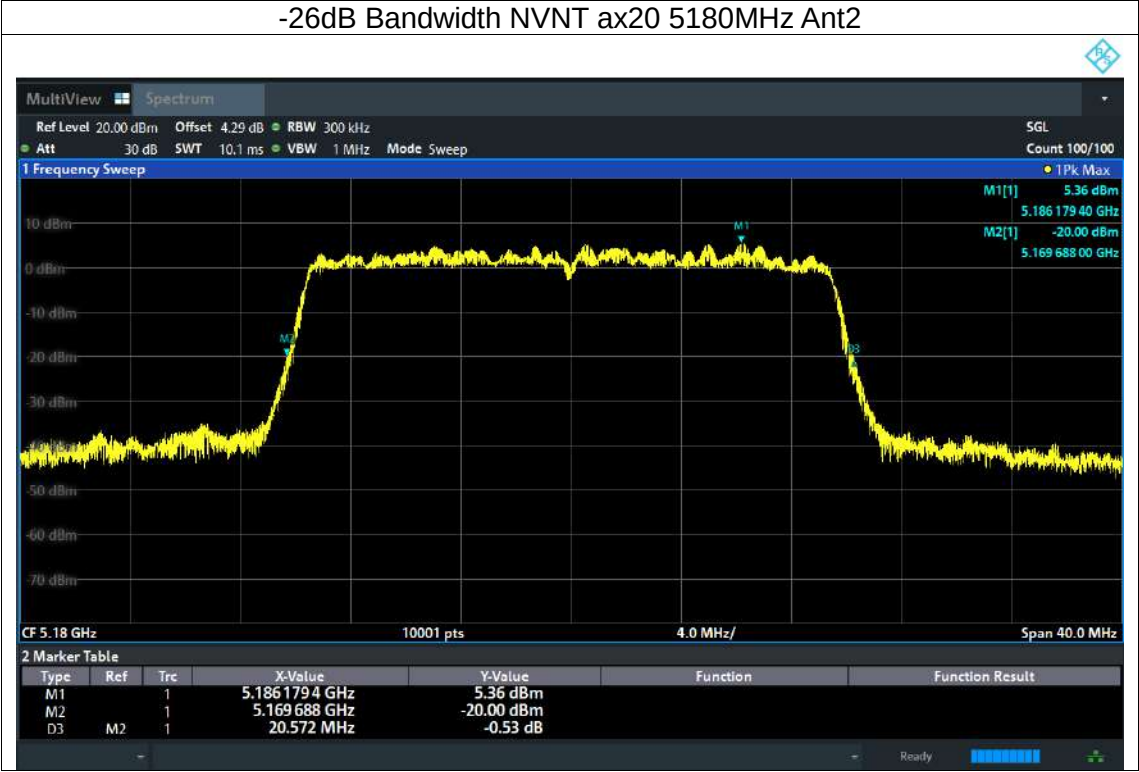
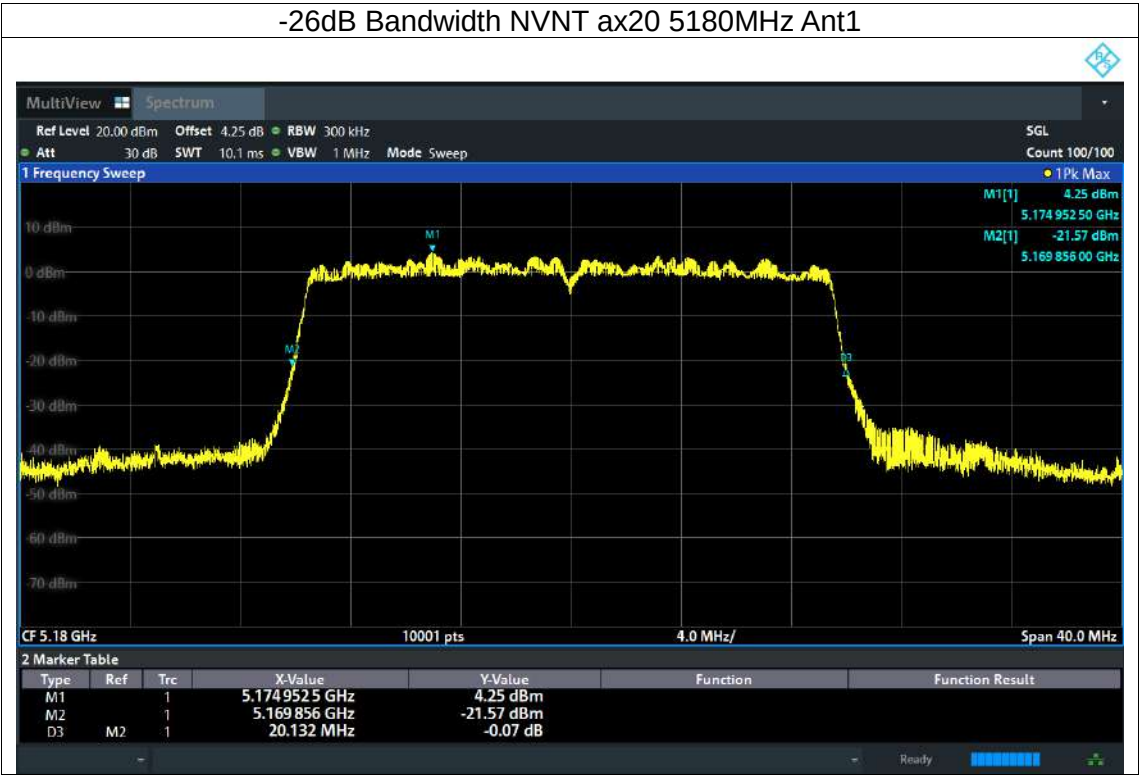


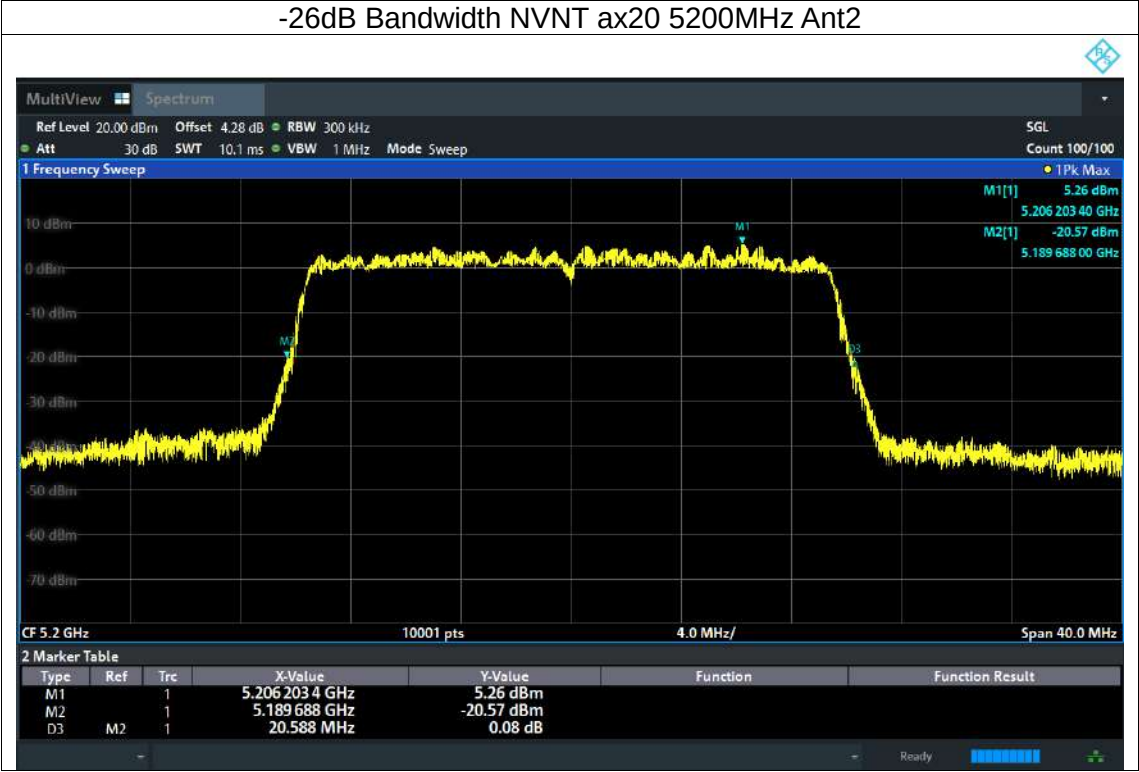
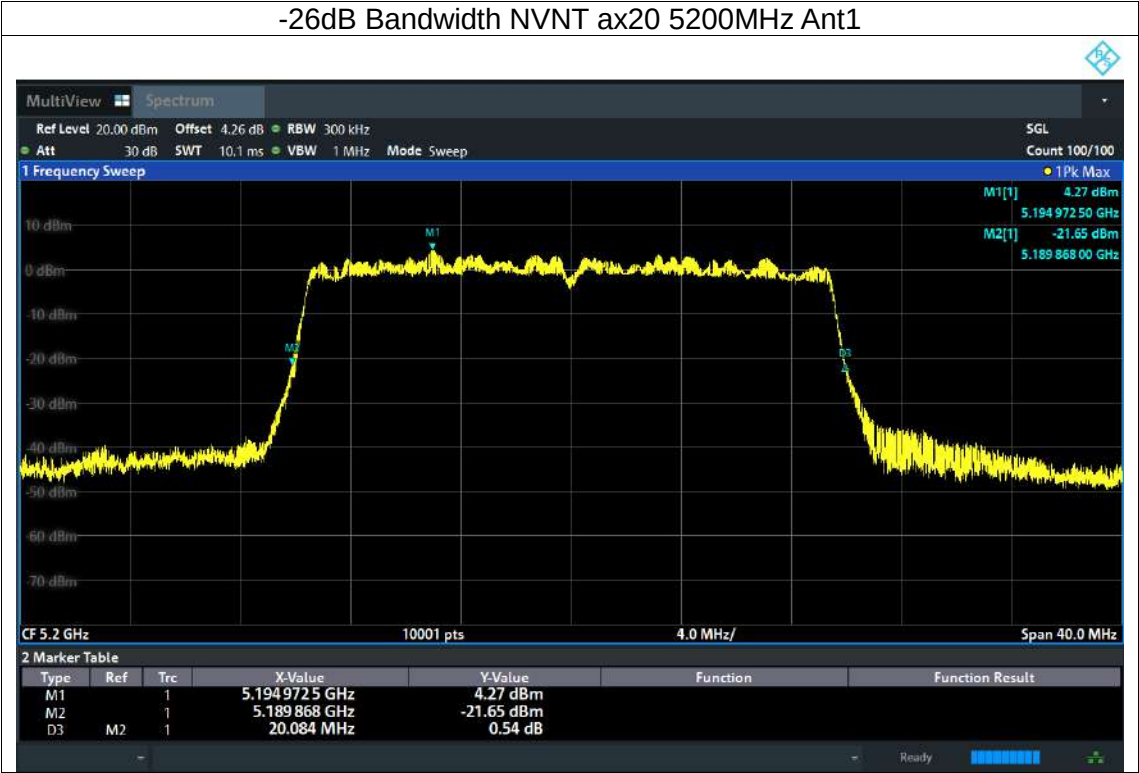
-26dB Bandwidth NVNT ac80 5210MHz Ant1



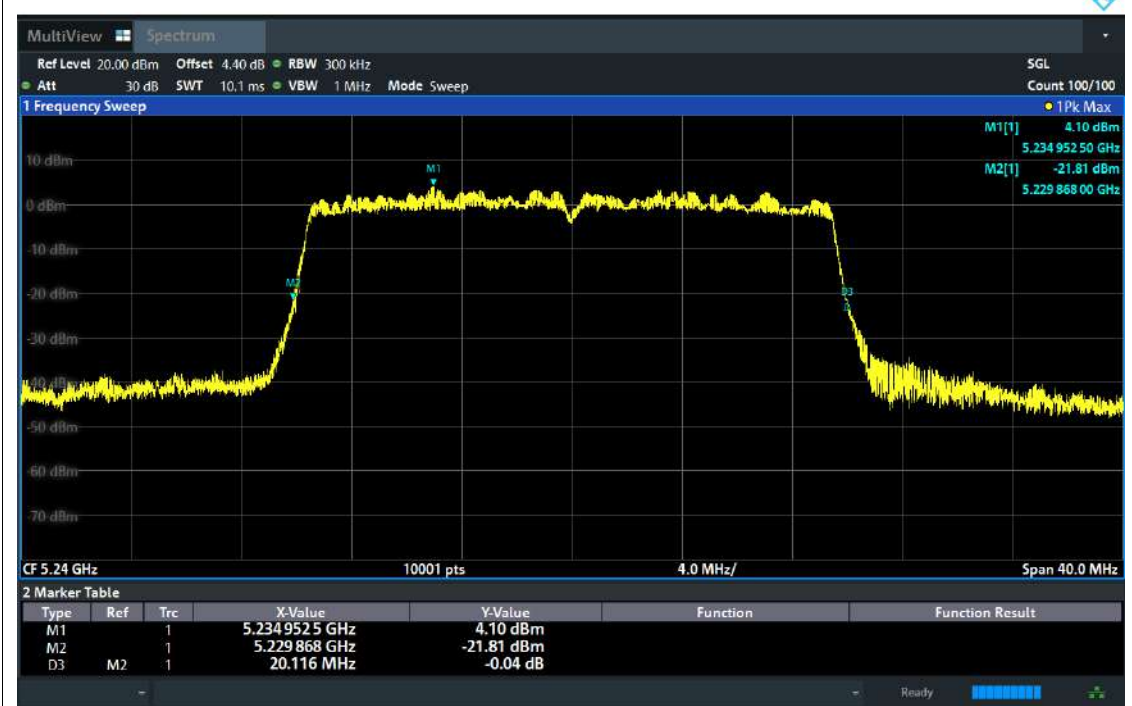
-26dB Bandwidth NVNT ac80 5210MHz Ant2





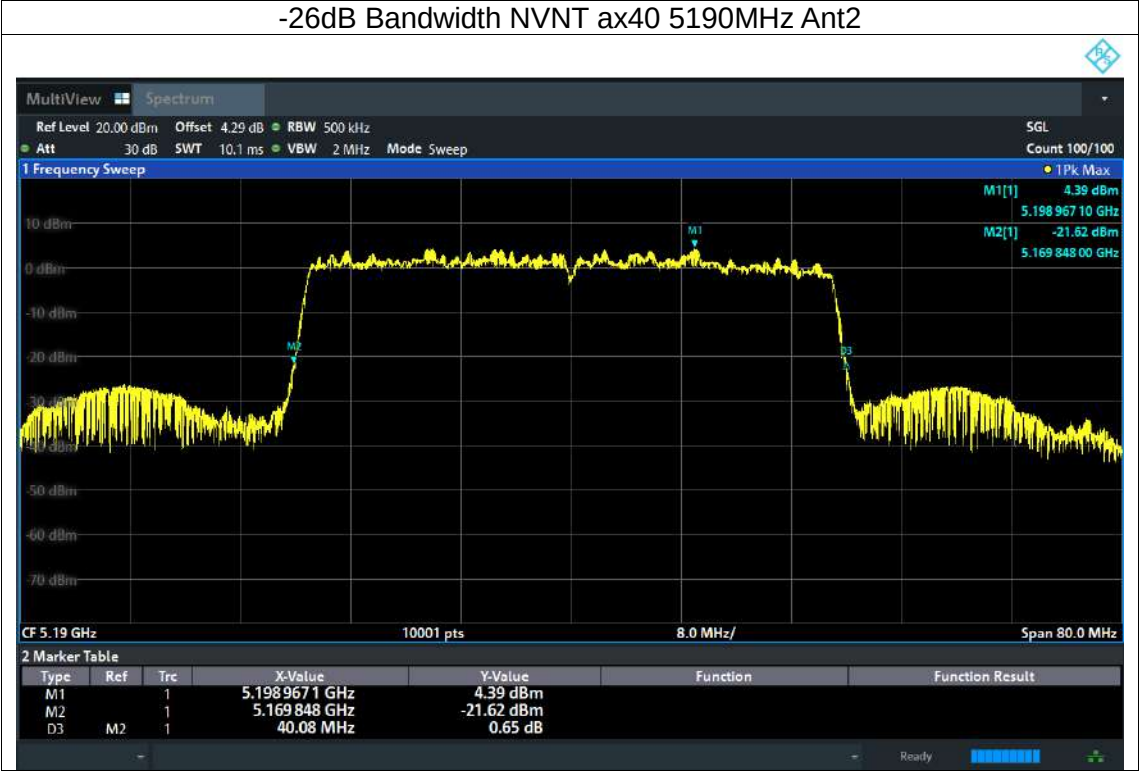
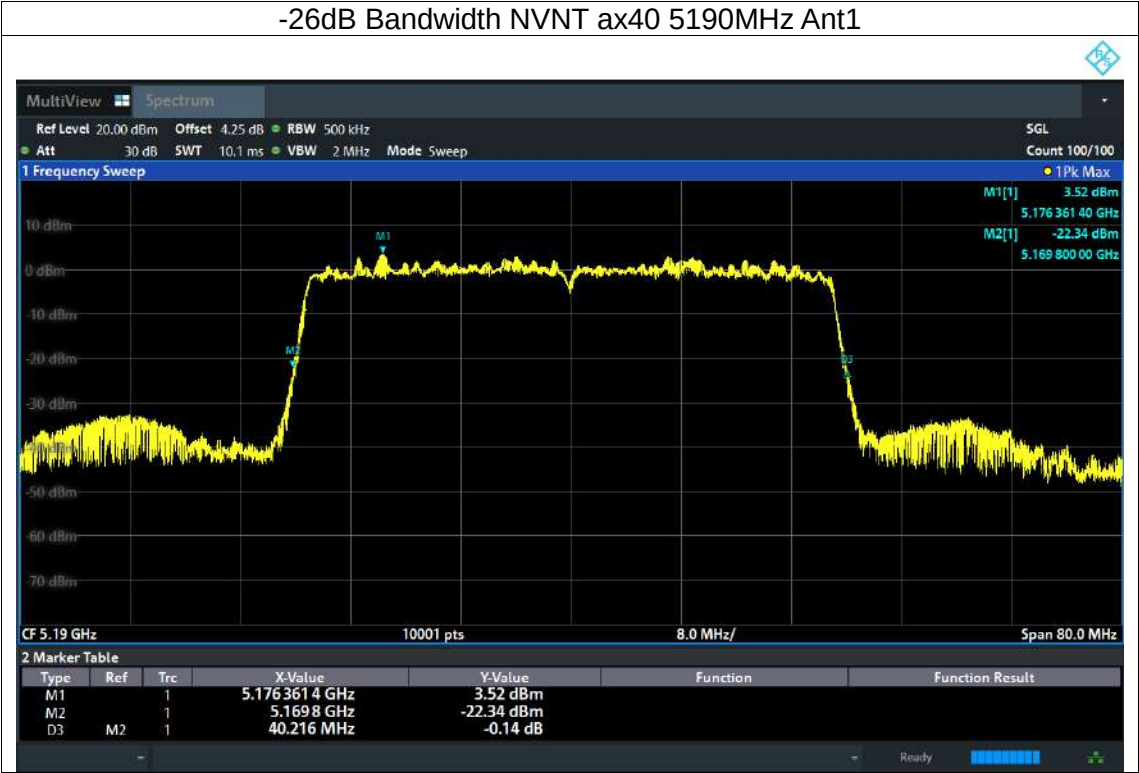


-26dB Bandwidth NVNT ax20 5240MHz Ant1

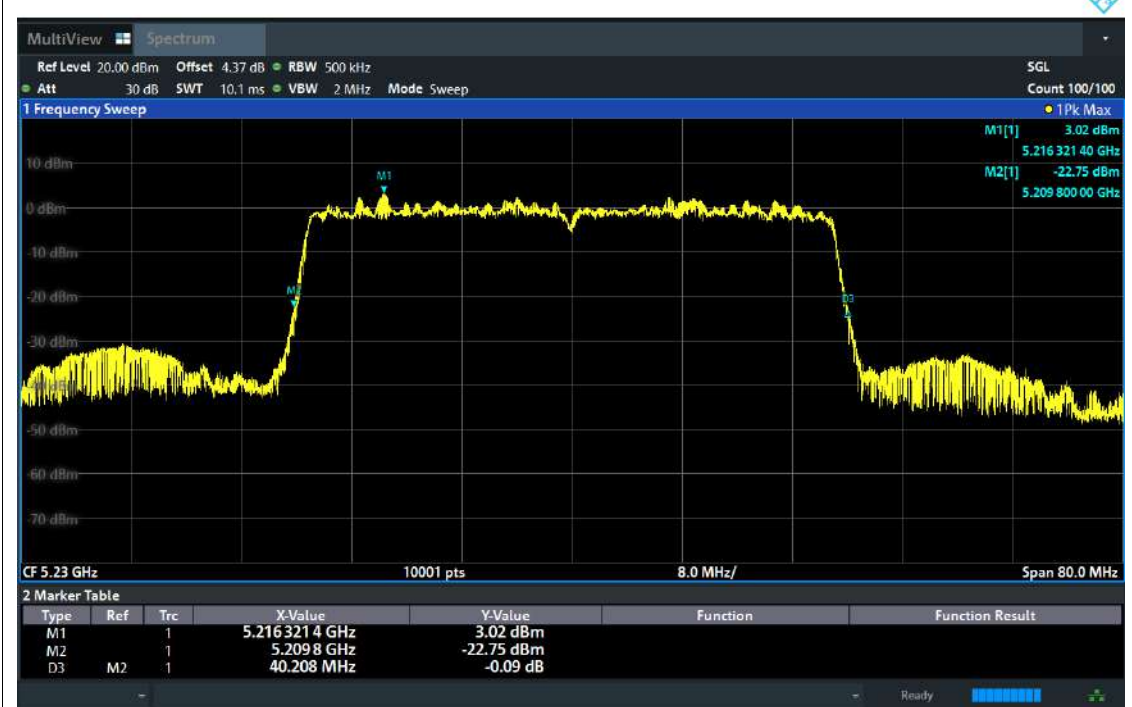


-26dB Bandwidth NVNT ax20 5240MHz Ant2

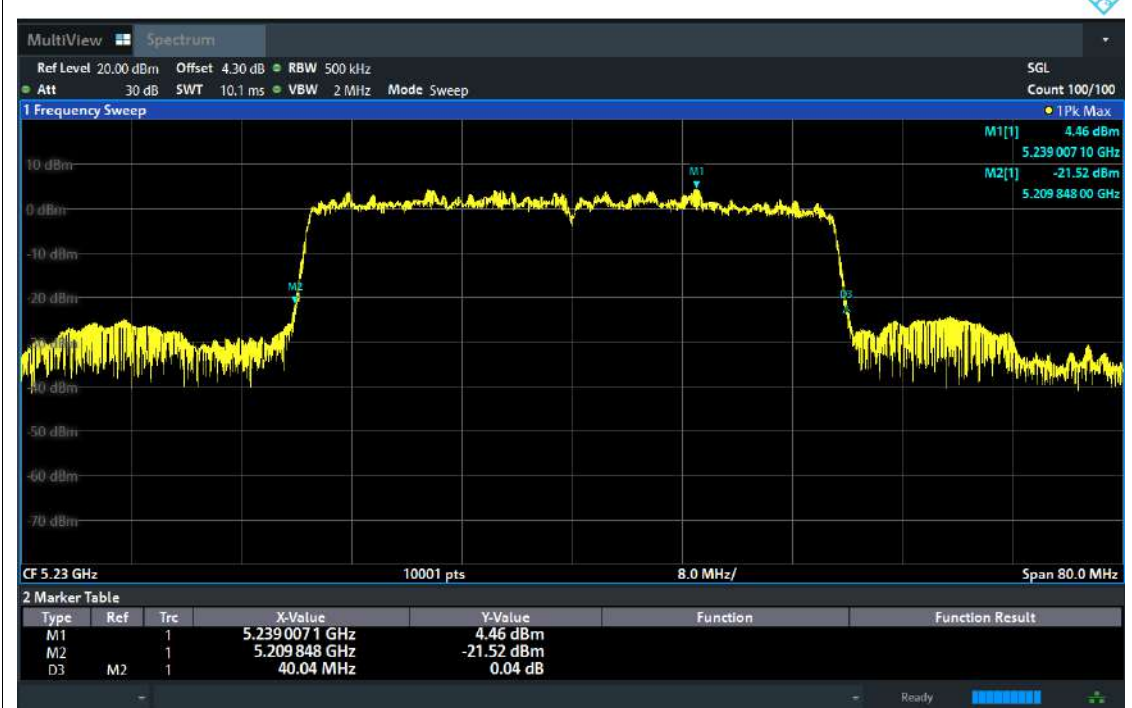




-26dB Bandwidth NVNT ax40 5230MHz Ant1



-26dB Bandwidth NVNT ax40 5230MHz Ant2



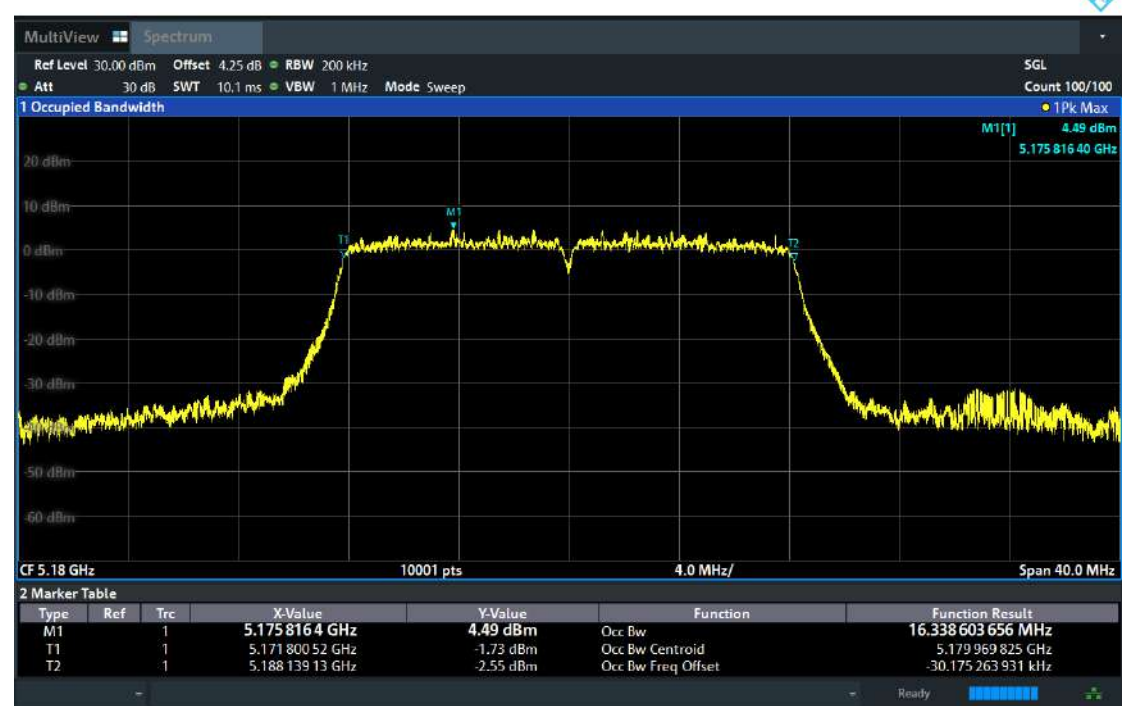
-26dB Bandwidth NVNT ax80 5210MHz Ant1



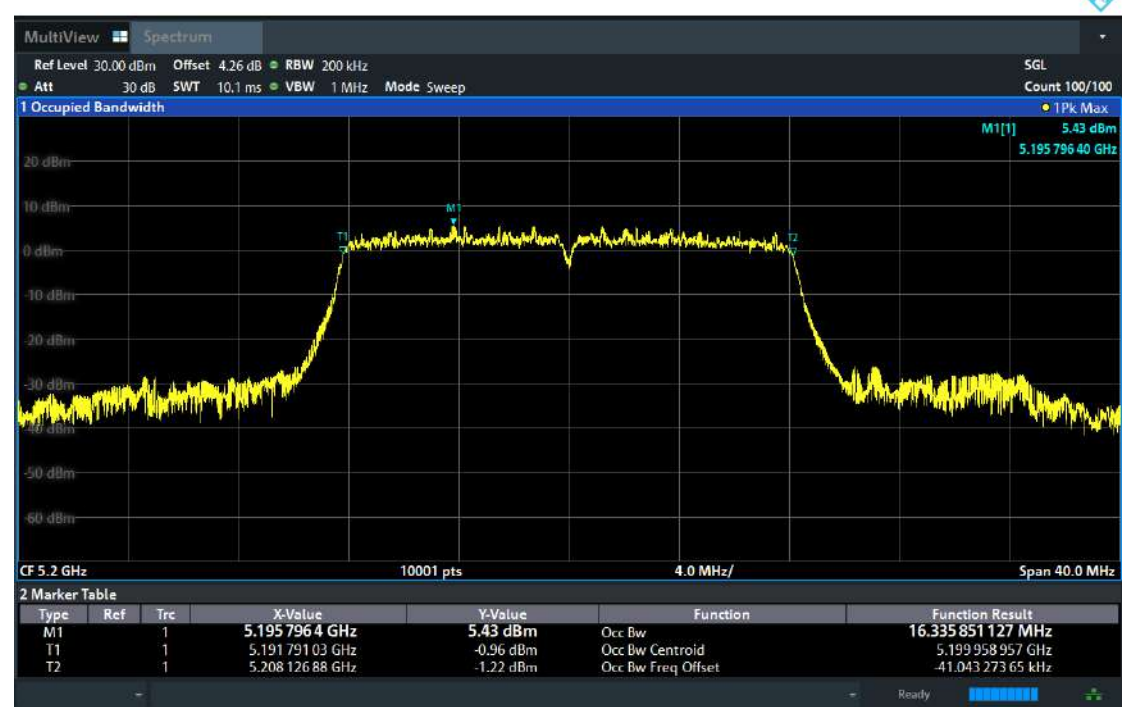
-26dB Bandwidth NVNT ax80 5210MHz Ant2

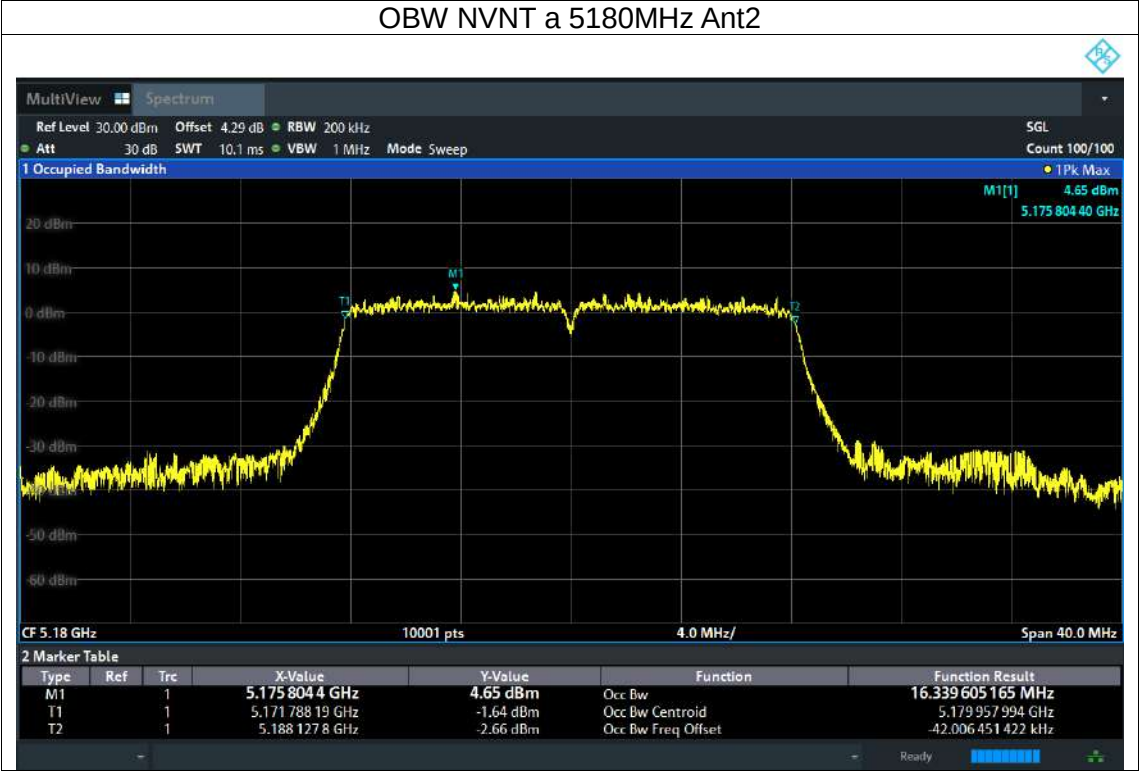
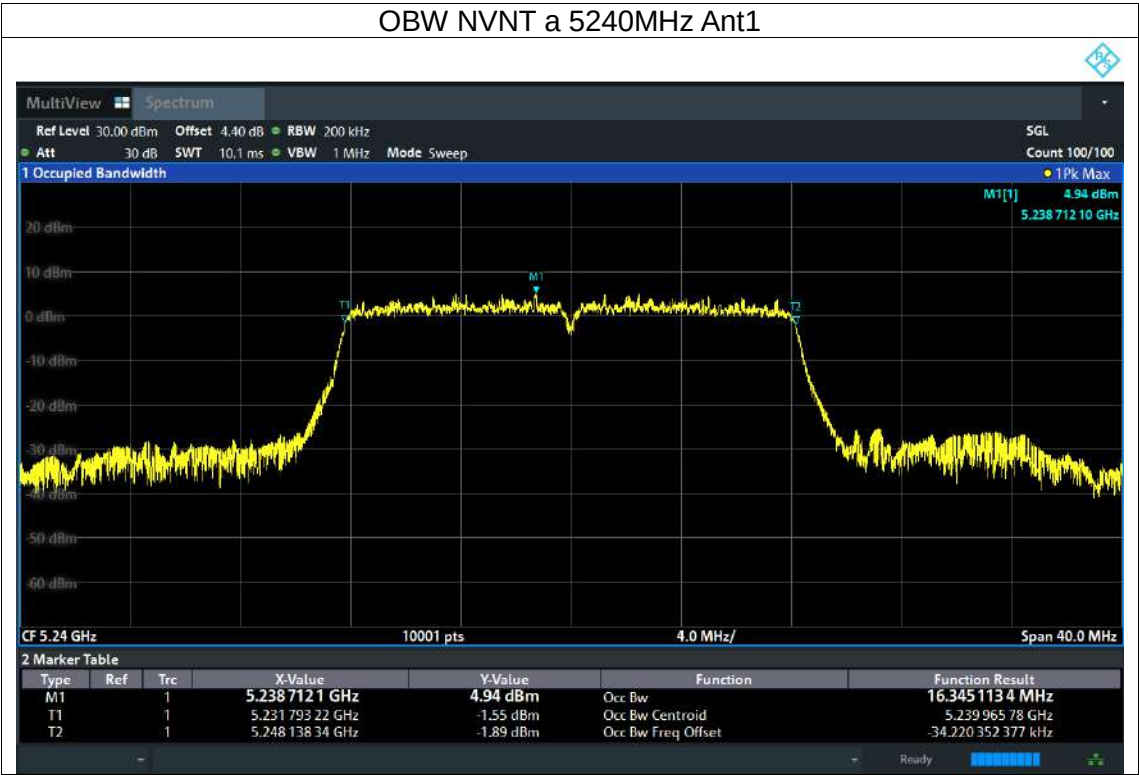


OBW NVNT a 5180MHz Ant1

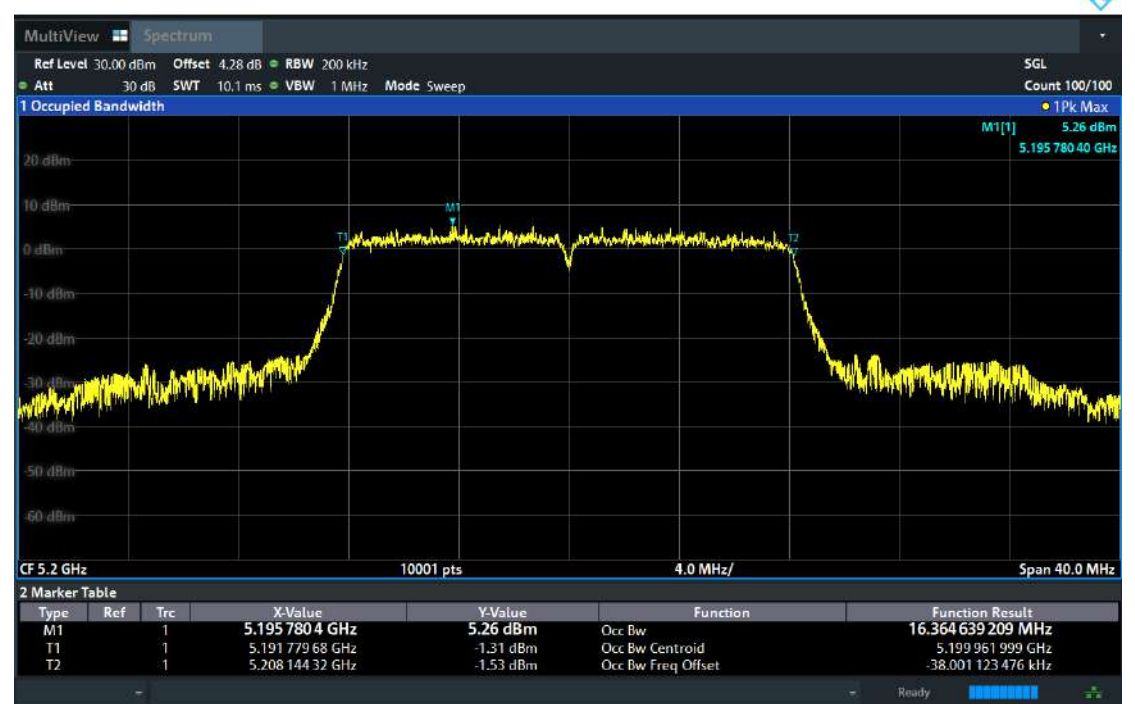


OBW NVNT a 5200MHz Ant1



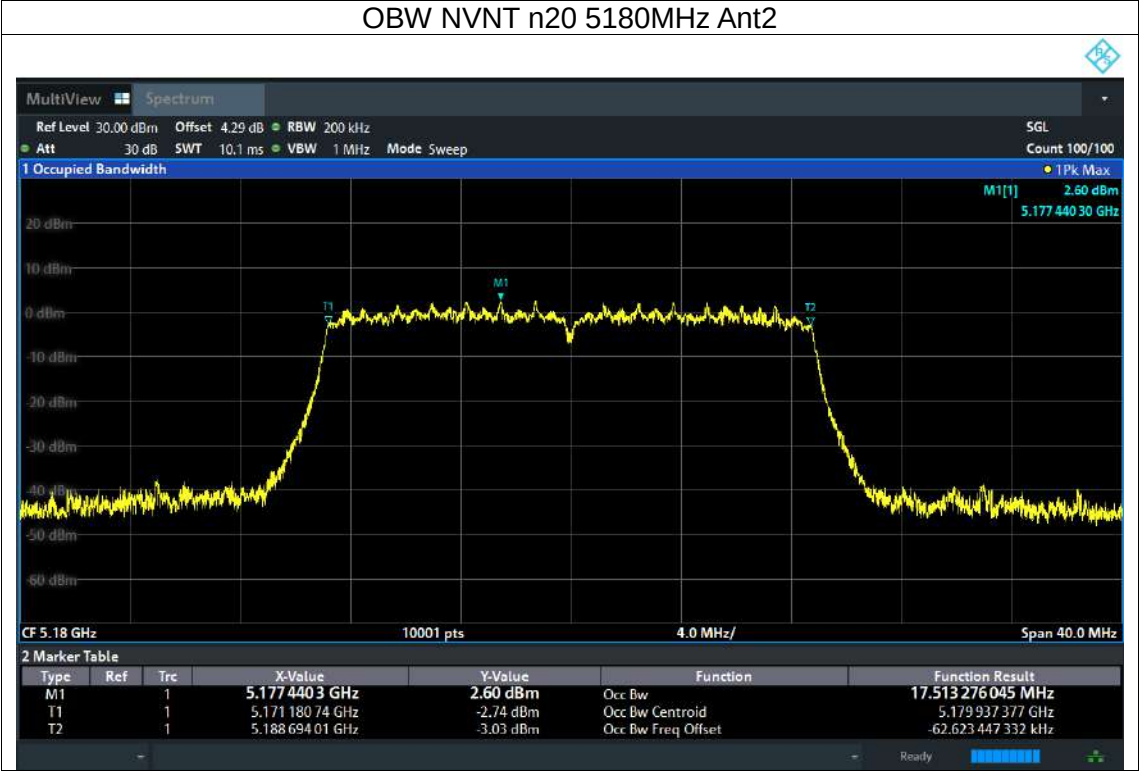
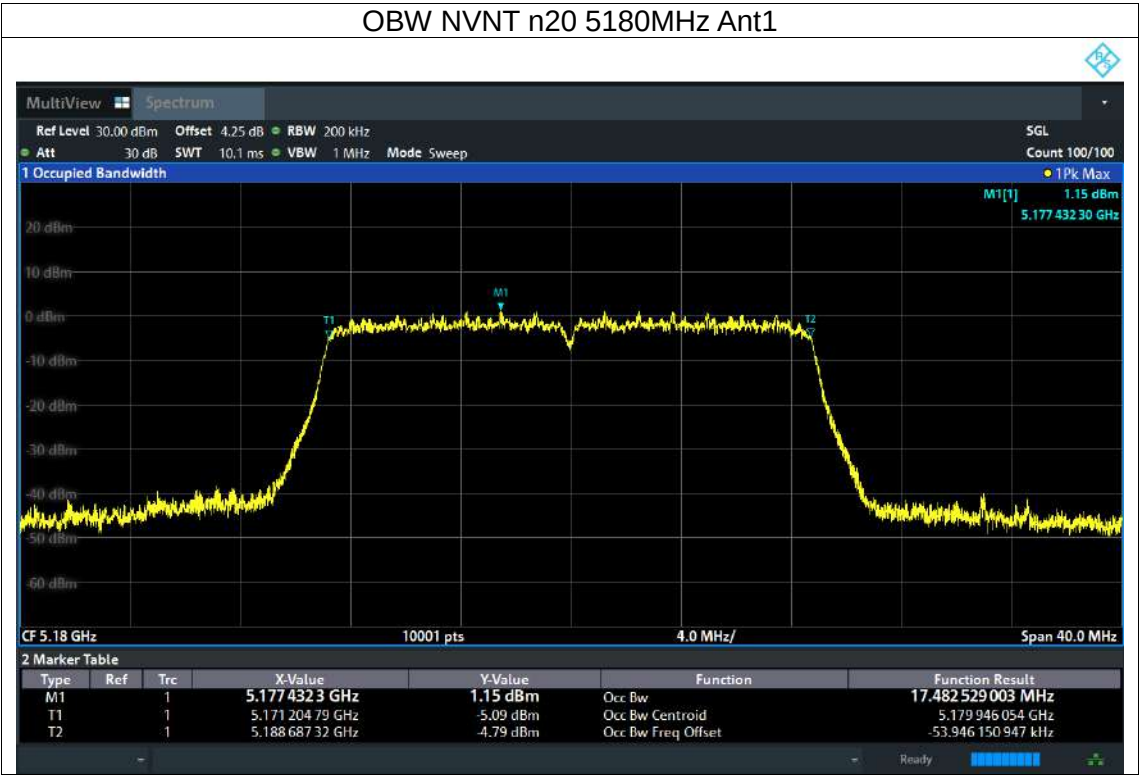


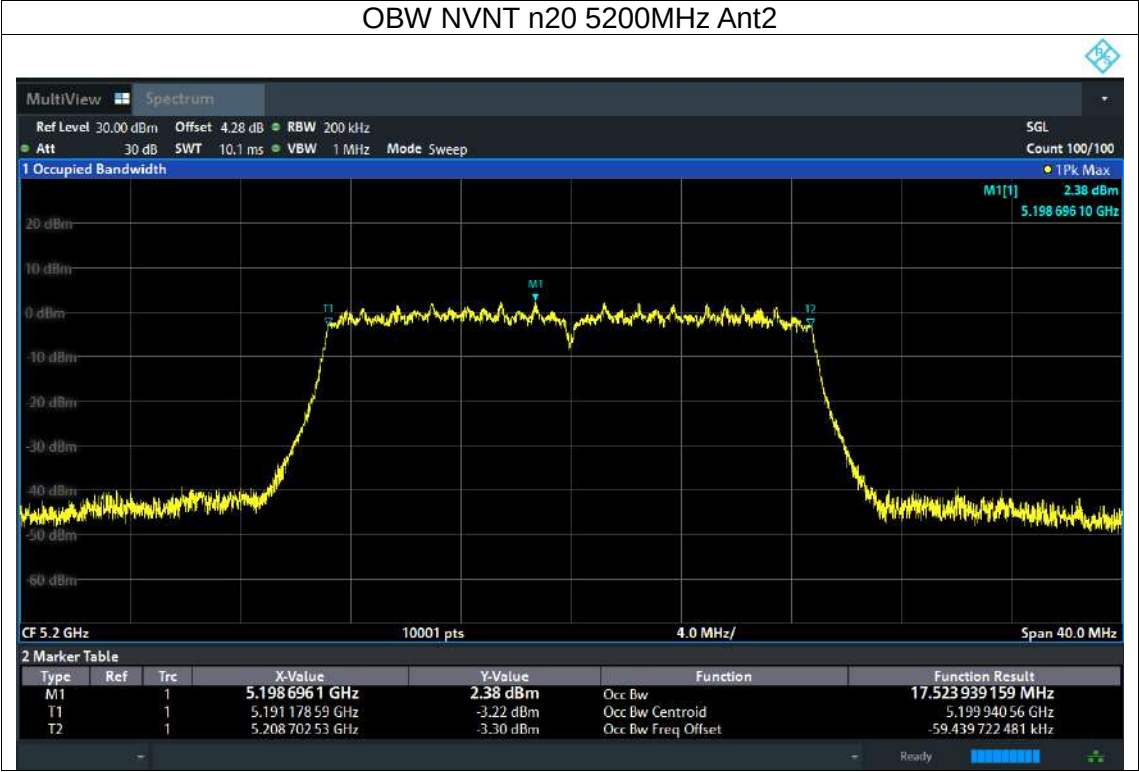
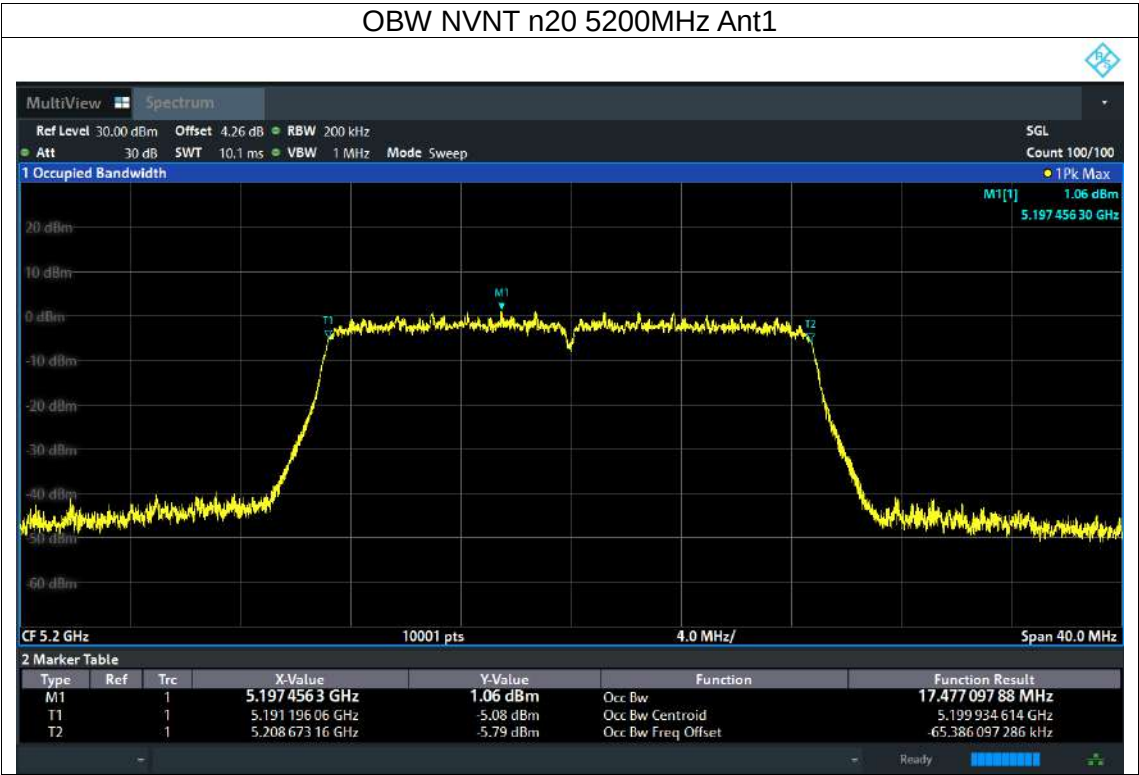
OBW NVNT a 5200MHz Ant2

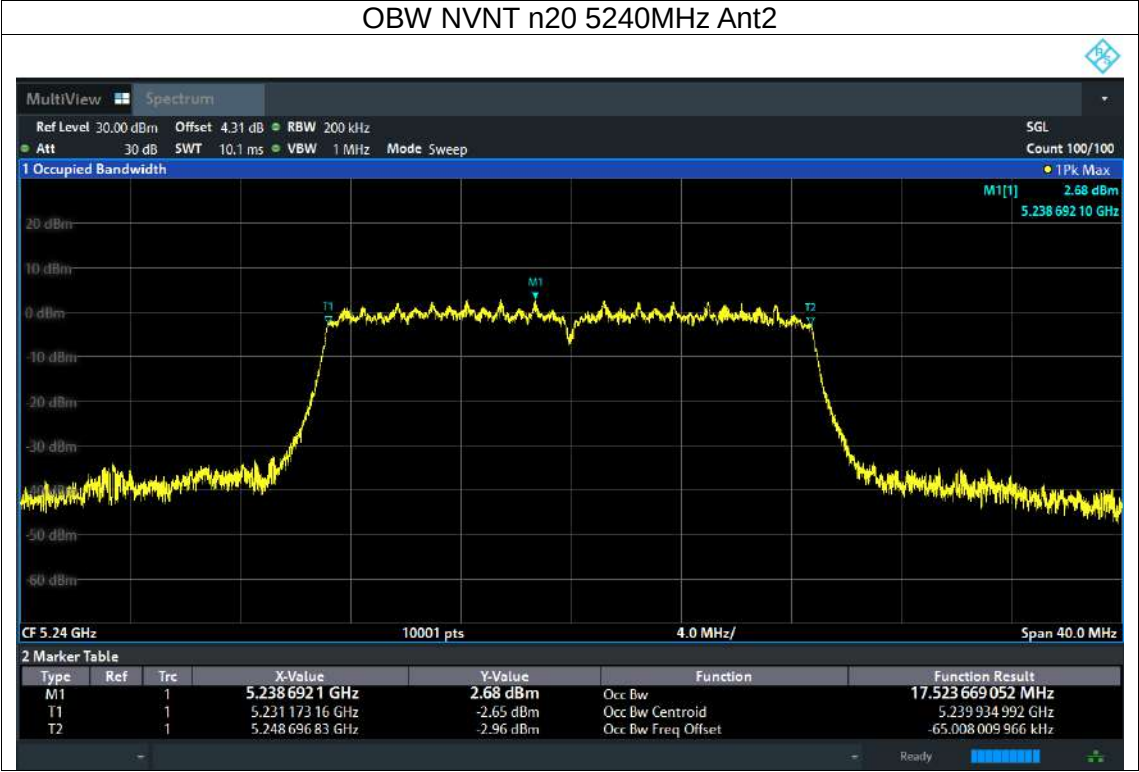
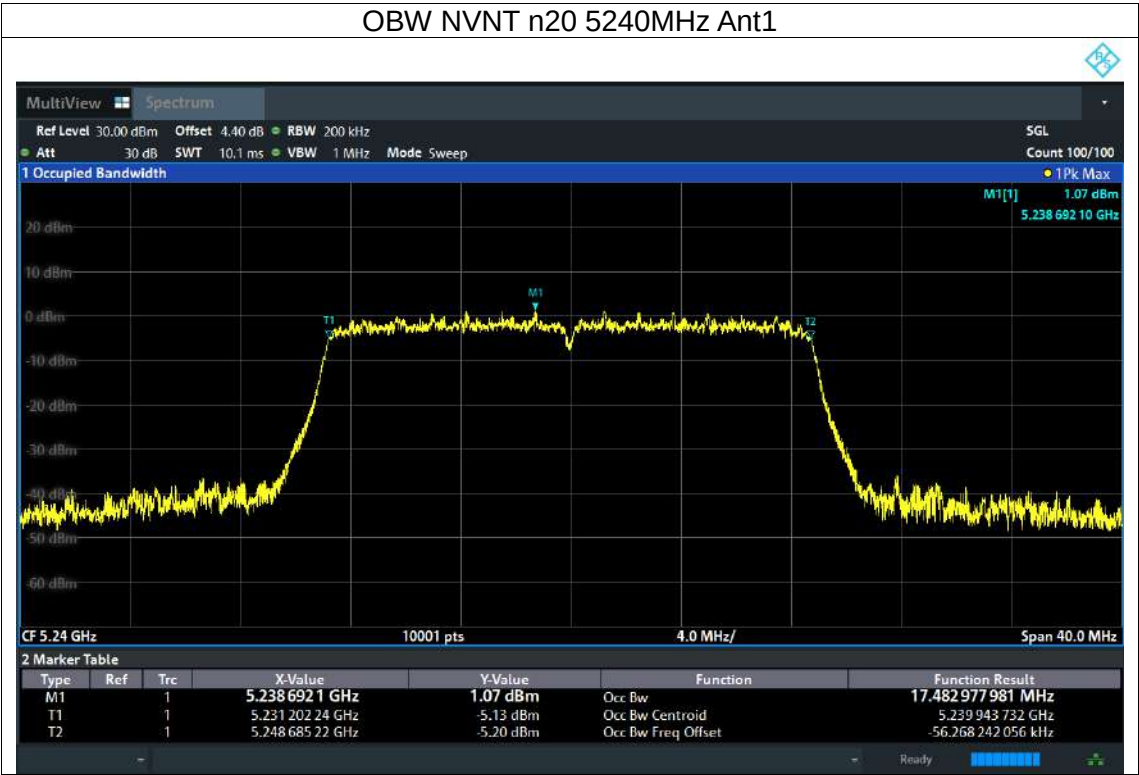


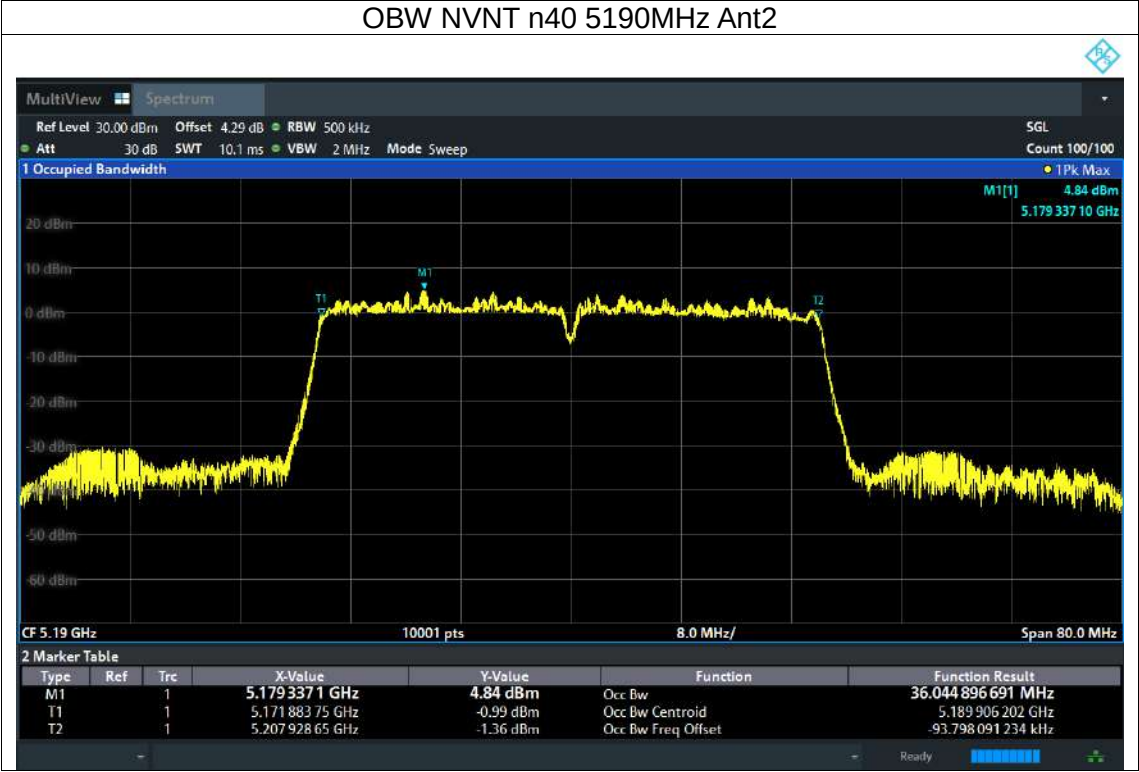
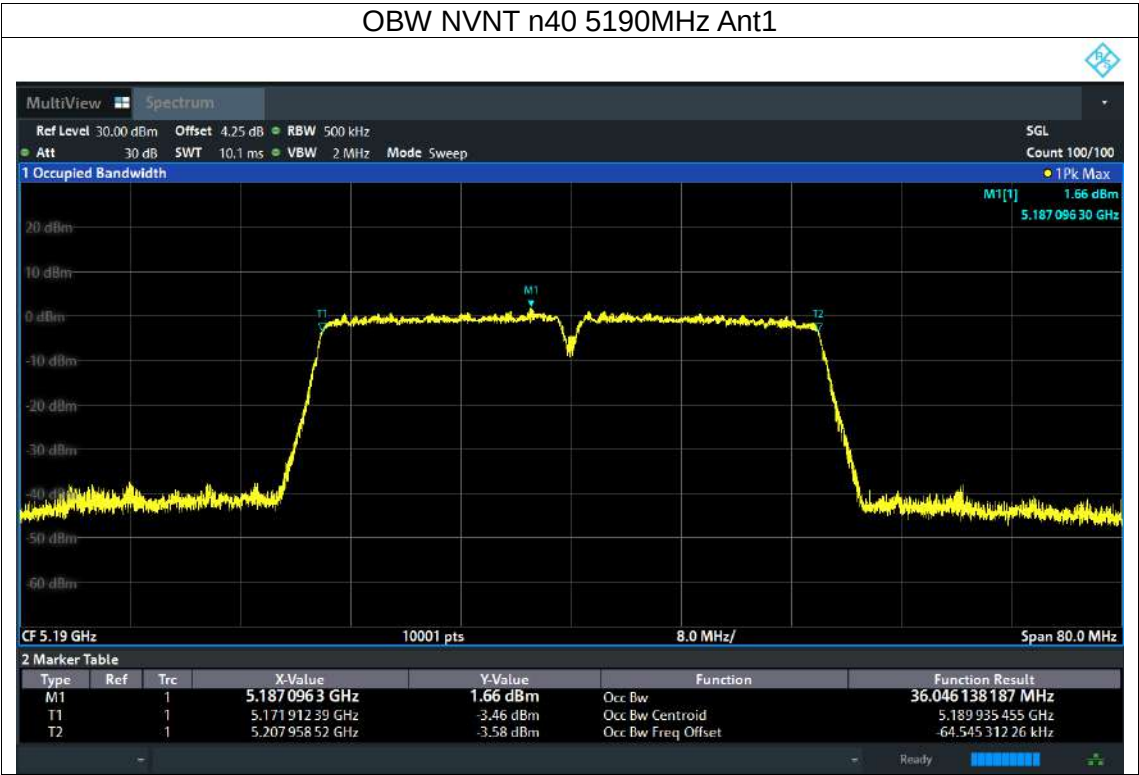
OBW NVNT a 5240MHz Ant2

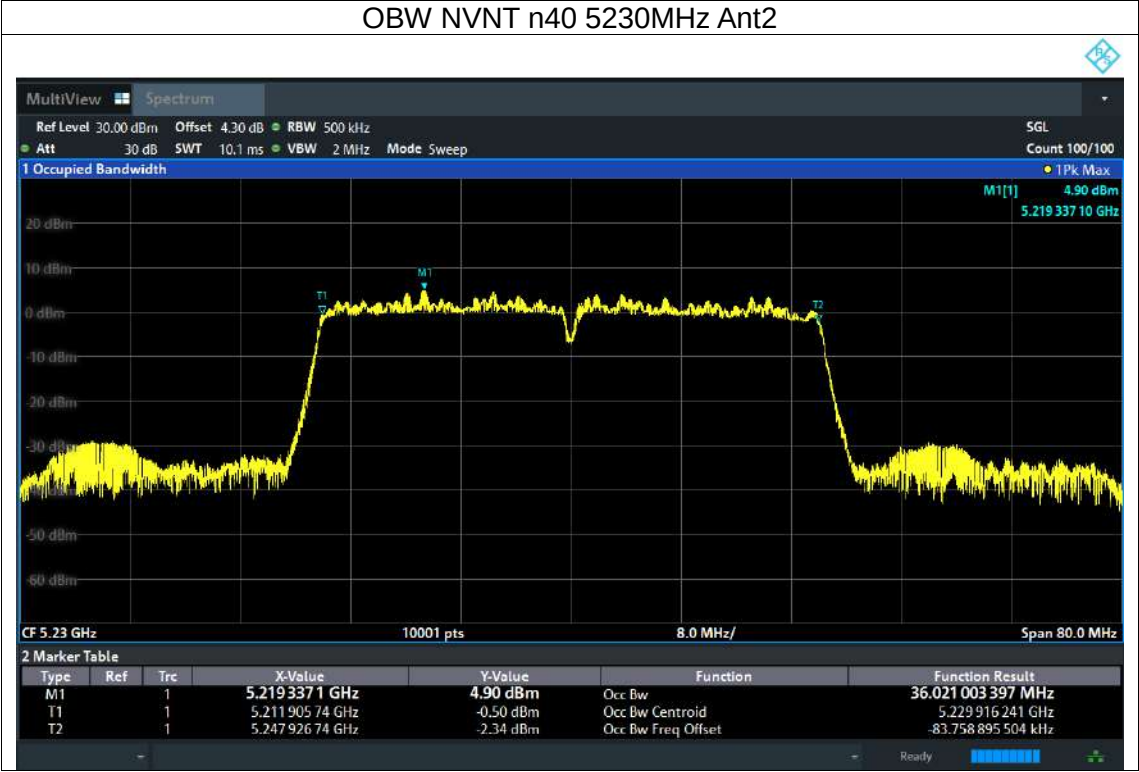
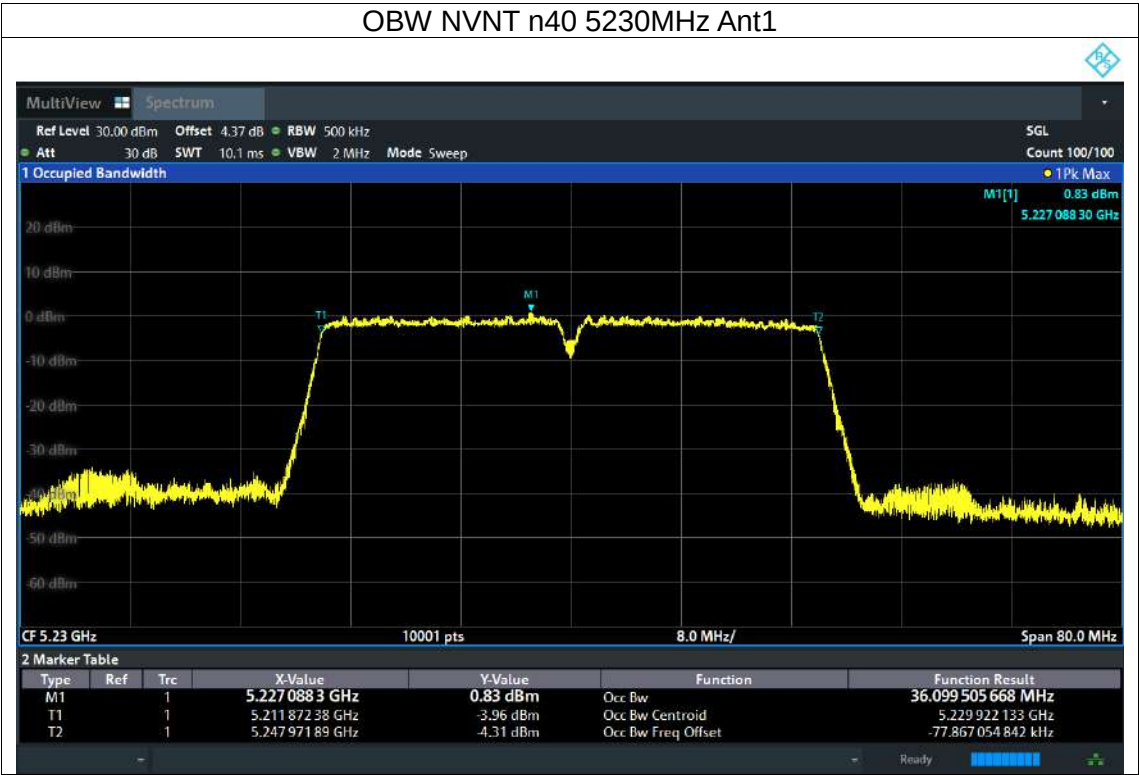




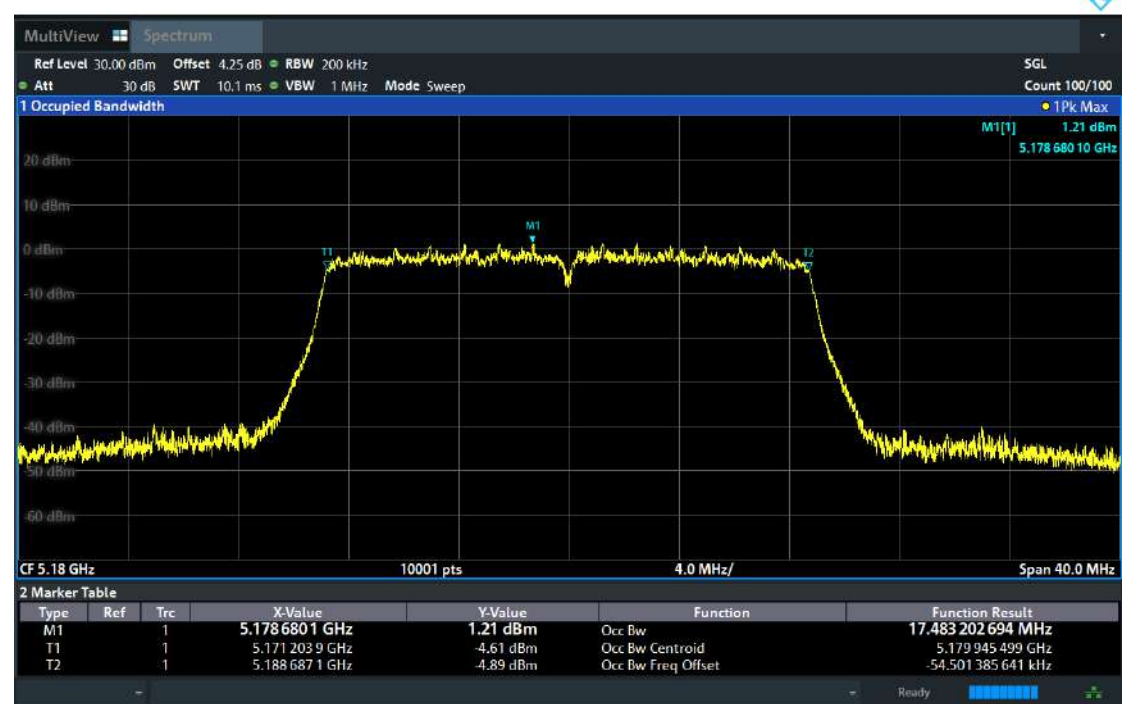






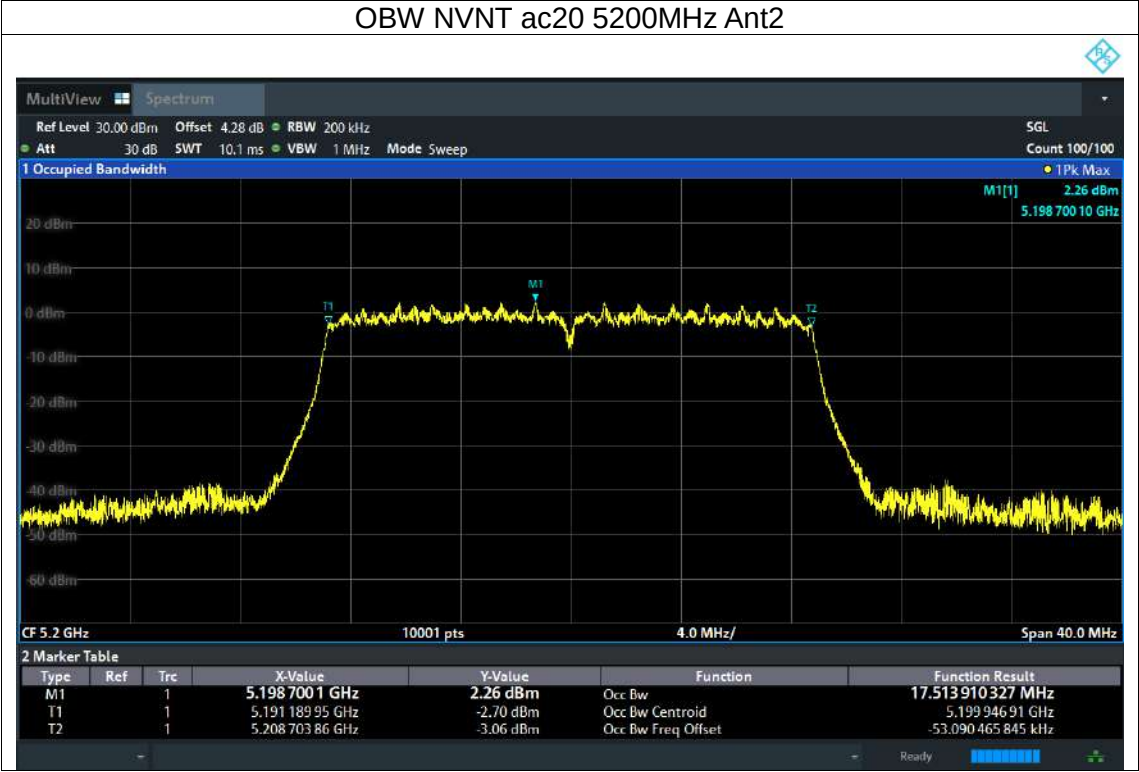
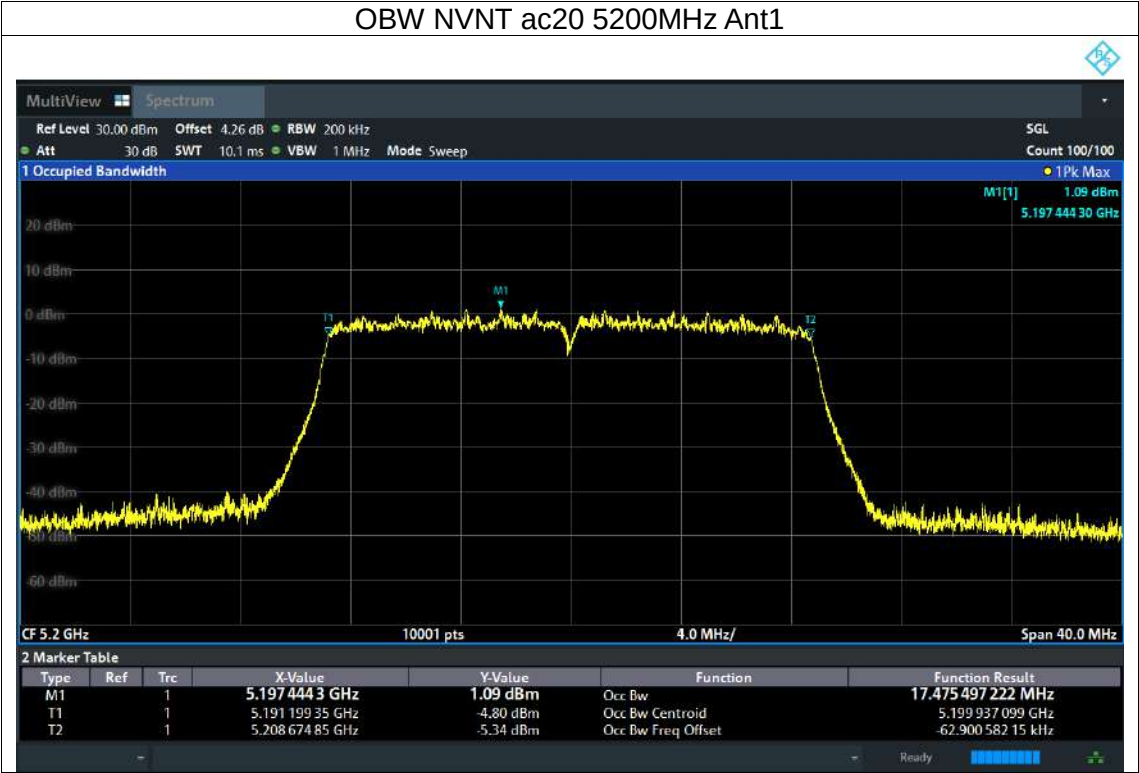


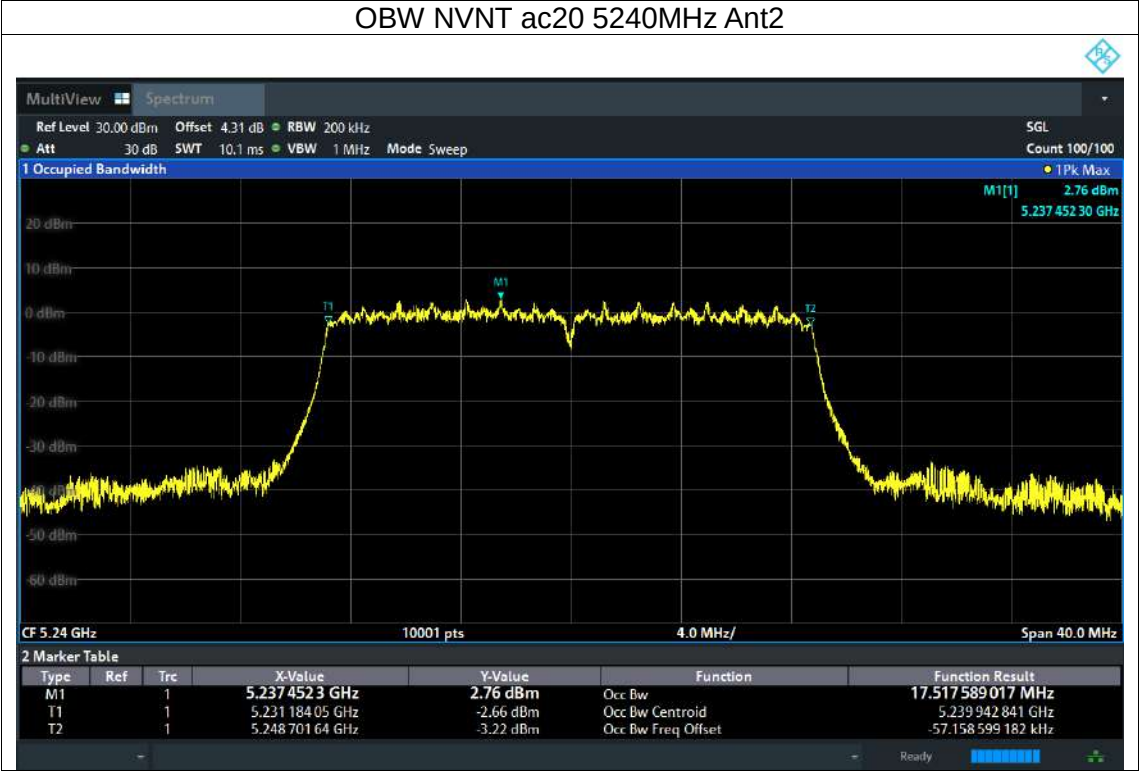
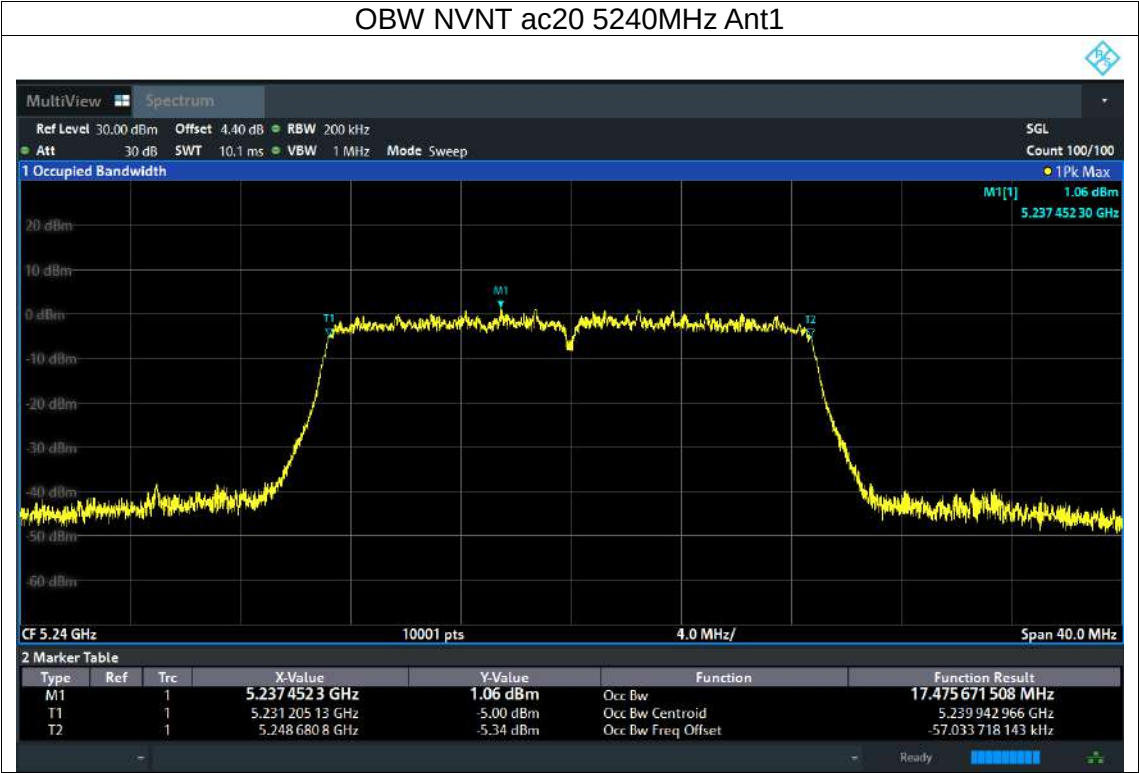
OBW NVNT ac20 5180MHz Ant1



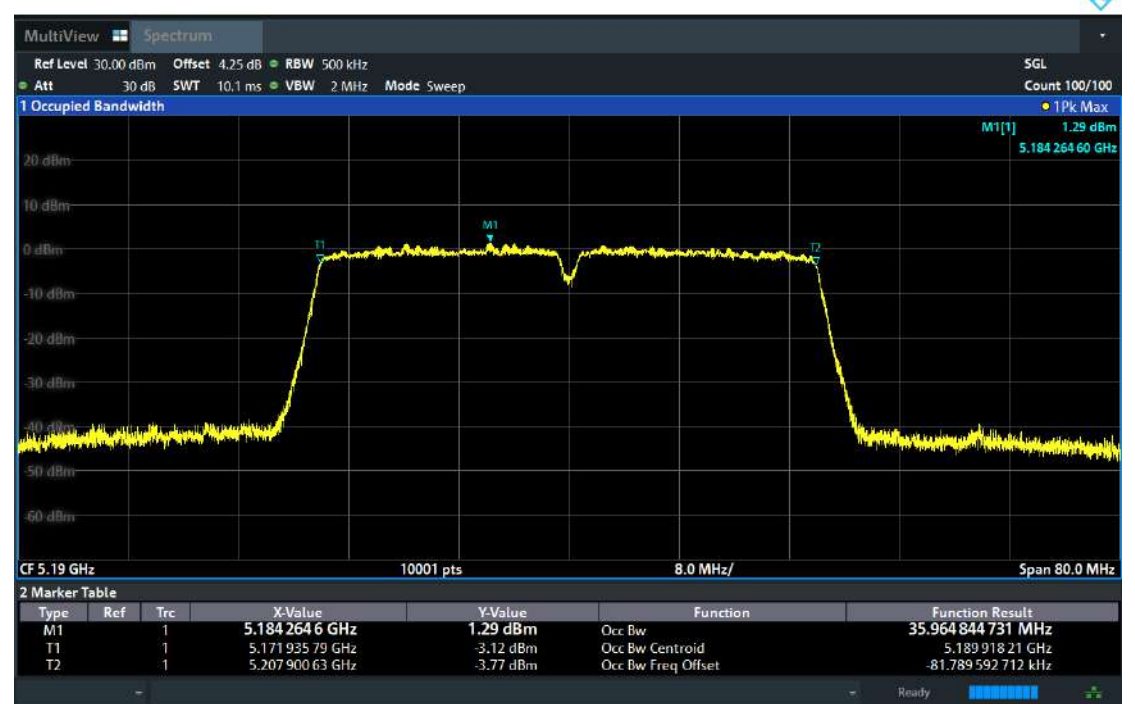
OBW NVNT ac20 5180MHz Ant2



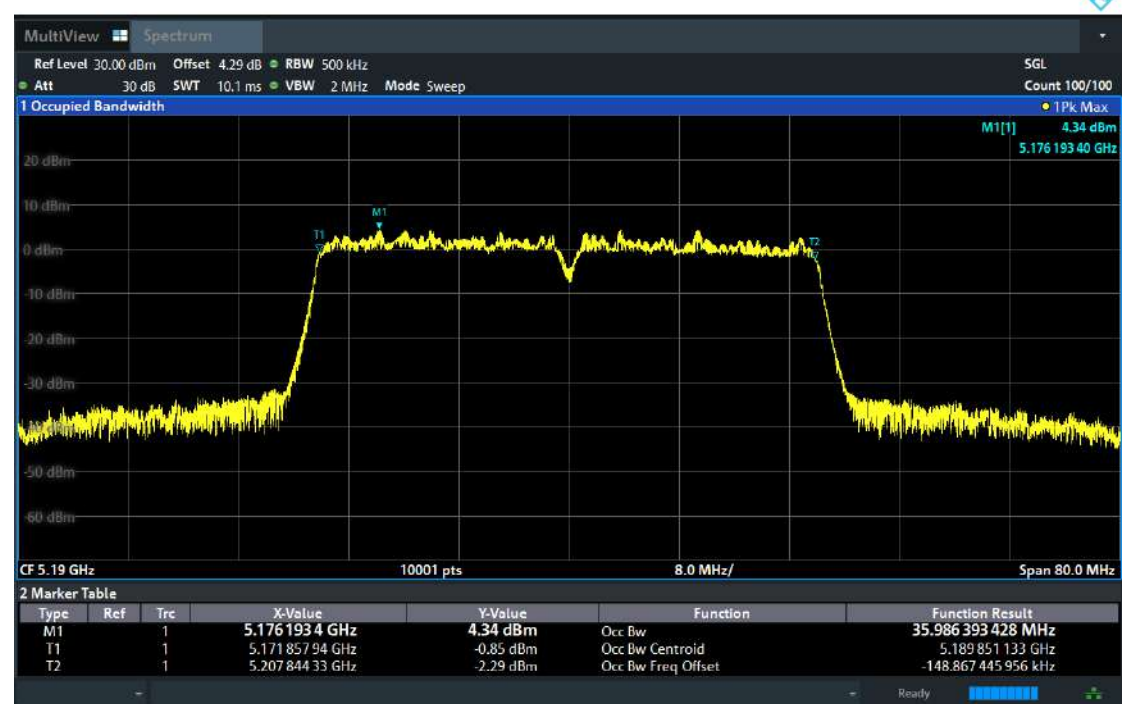


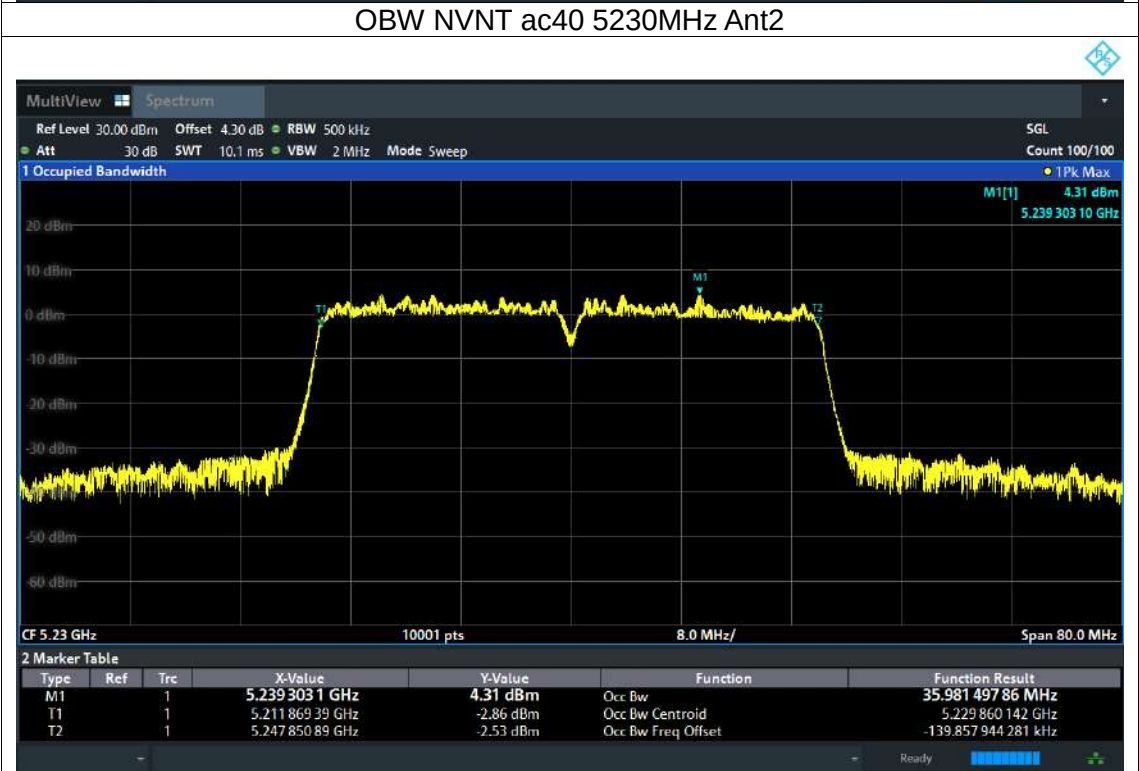
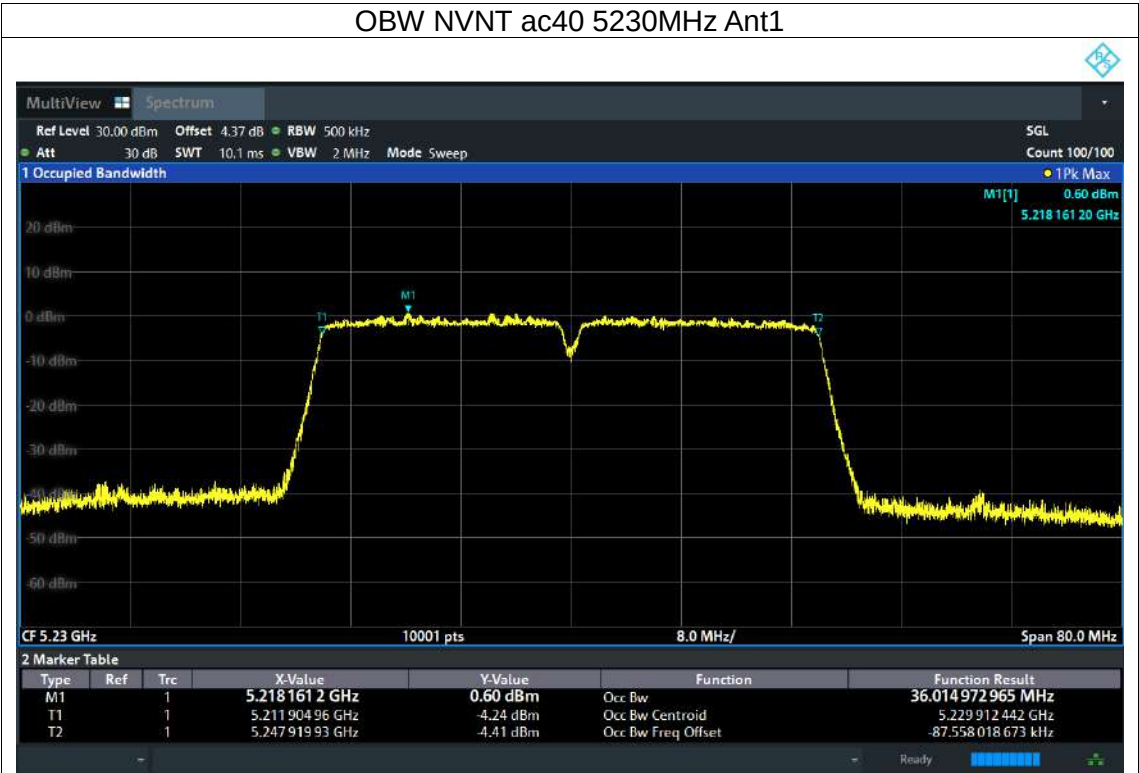


OBW NVNT ac40 5190MHz Ant1

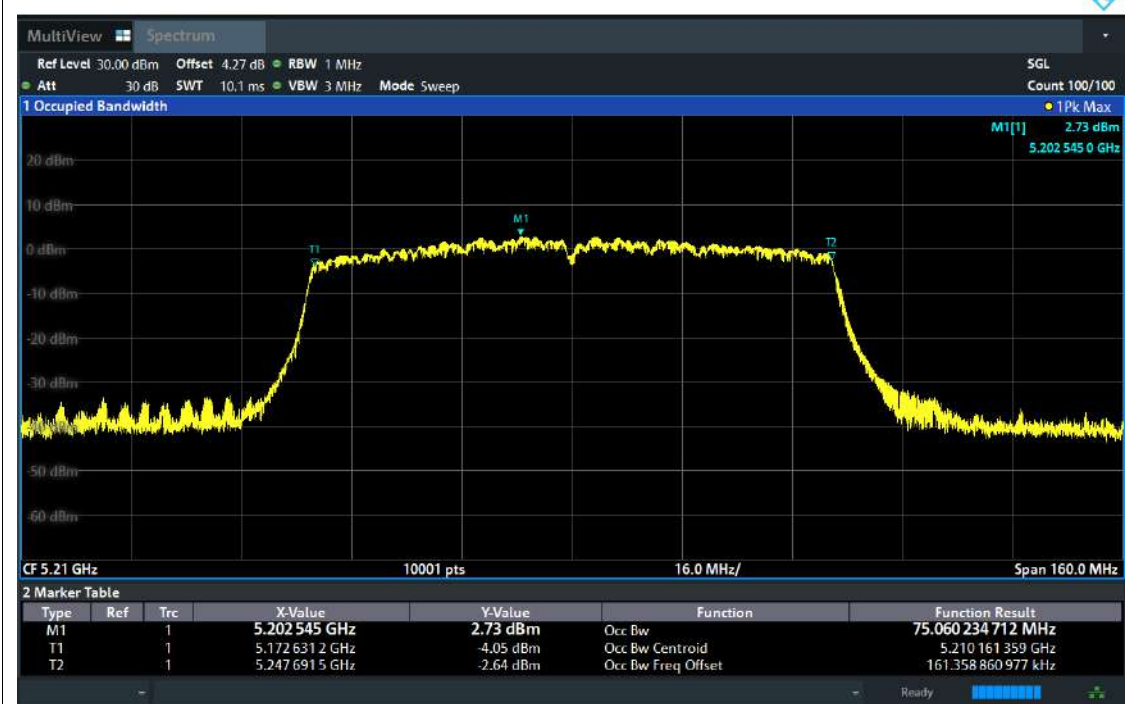


OBW NVNT ac40 5190MHz Ant2

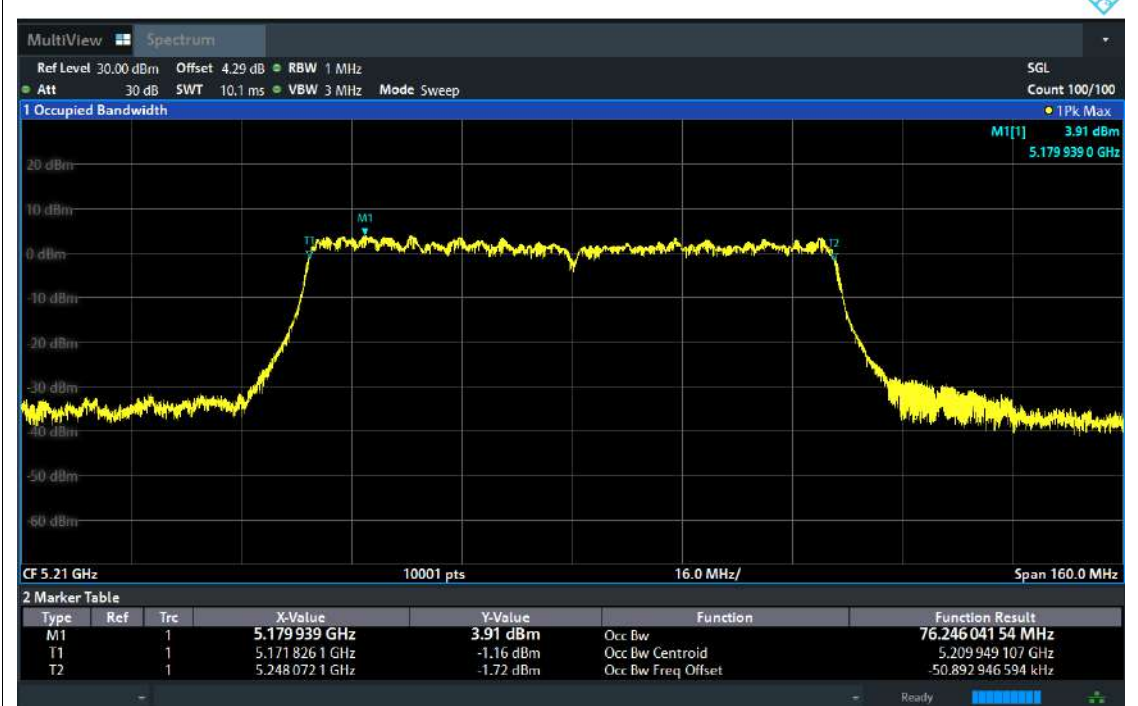




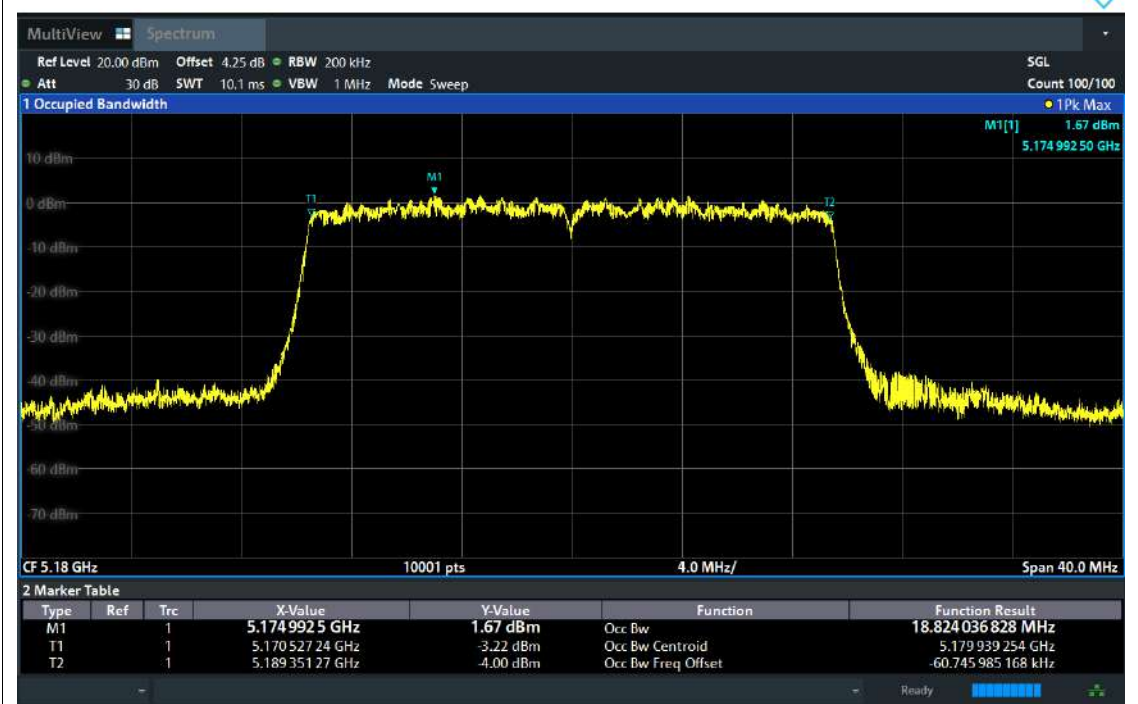
OBW NVNT ac80 5210MHz Ant1



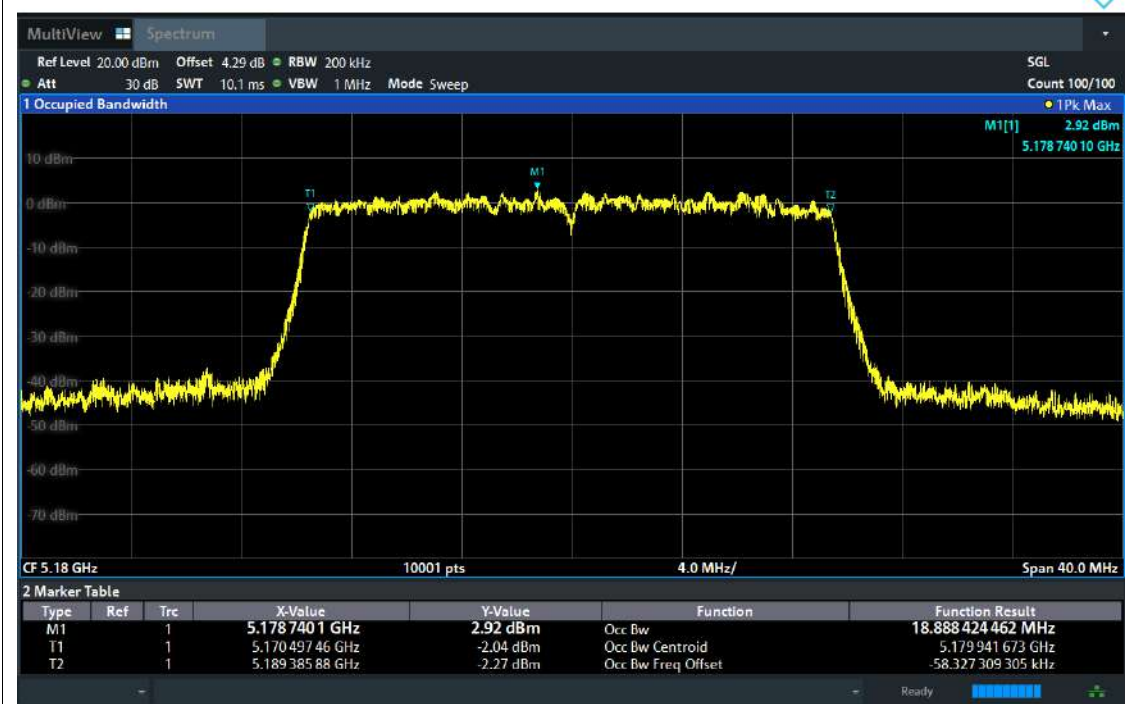
OBW NVNT ac80 5210MHz Ant2

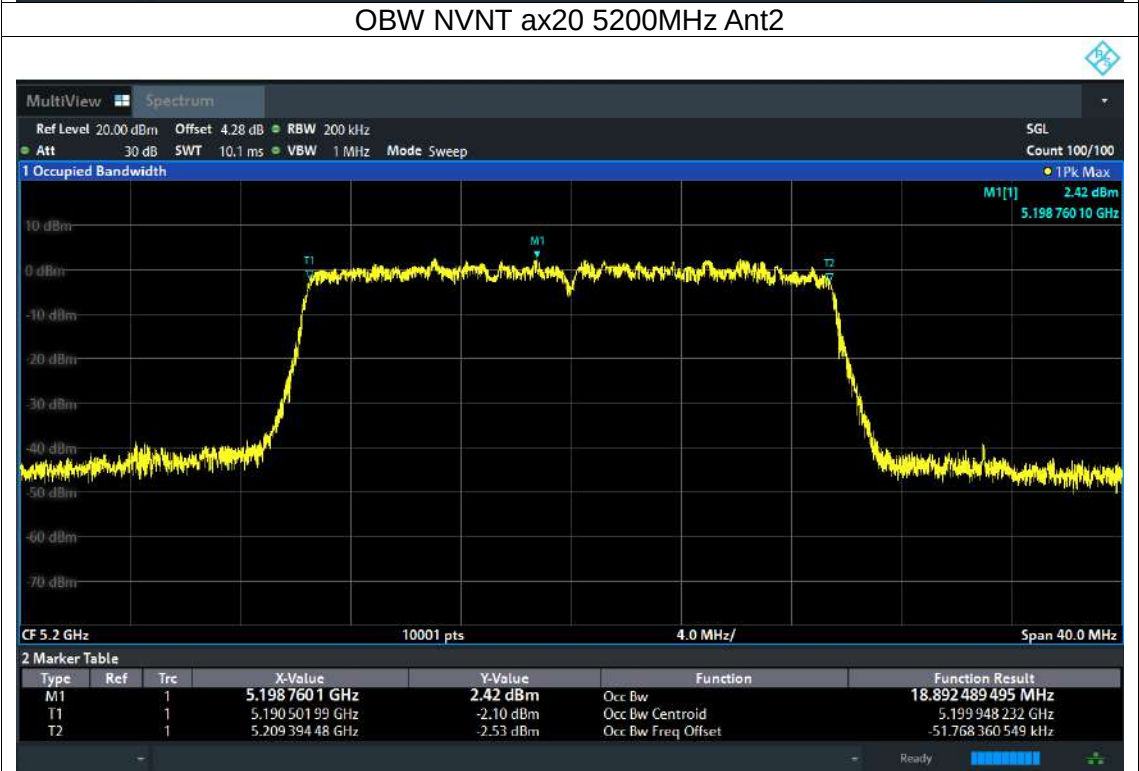
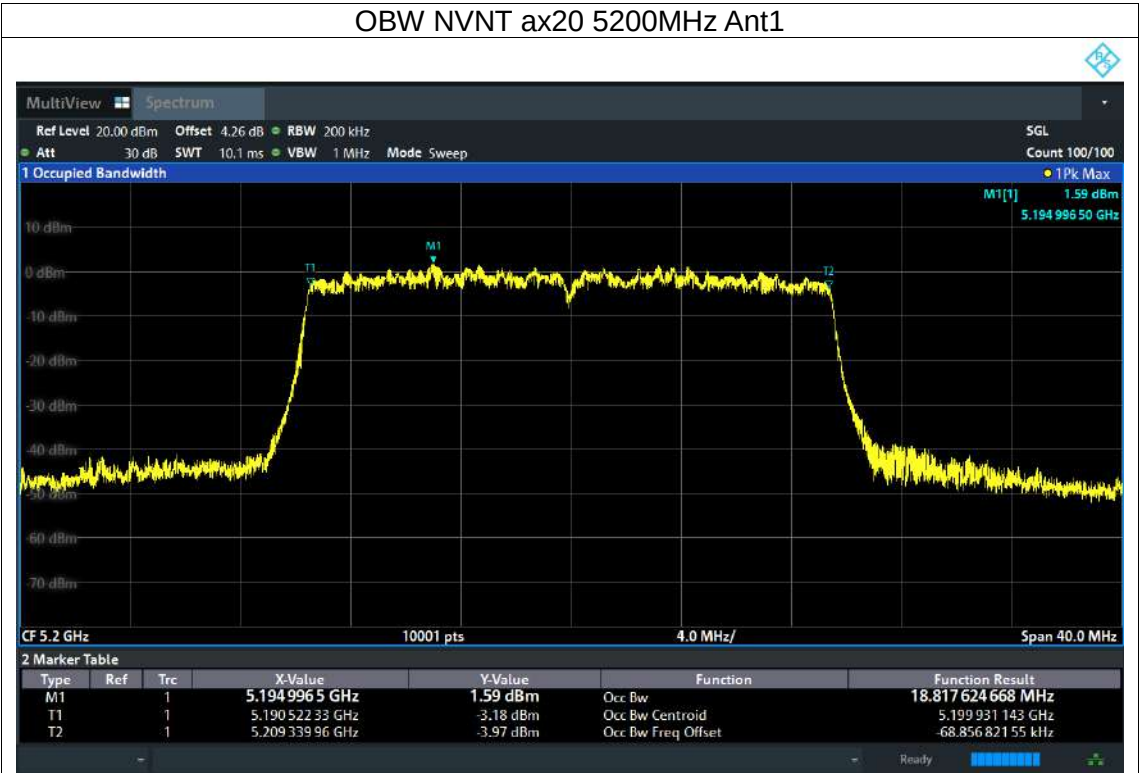


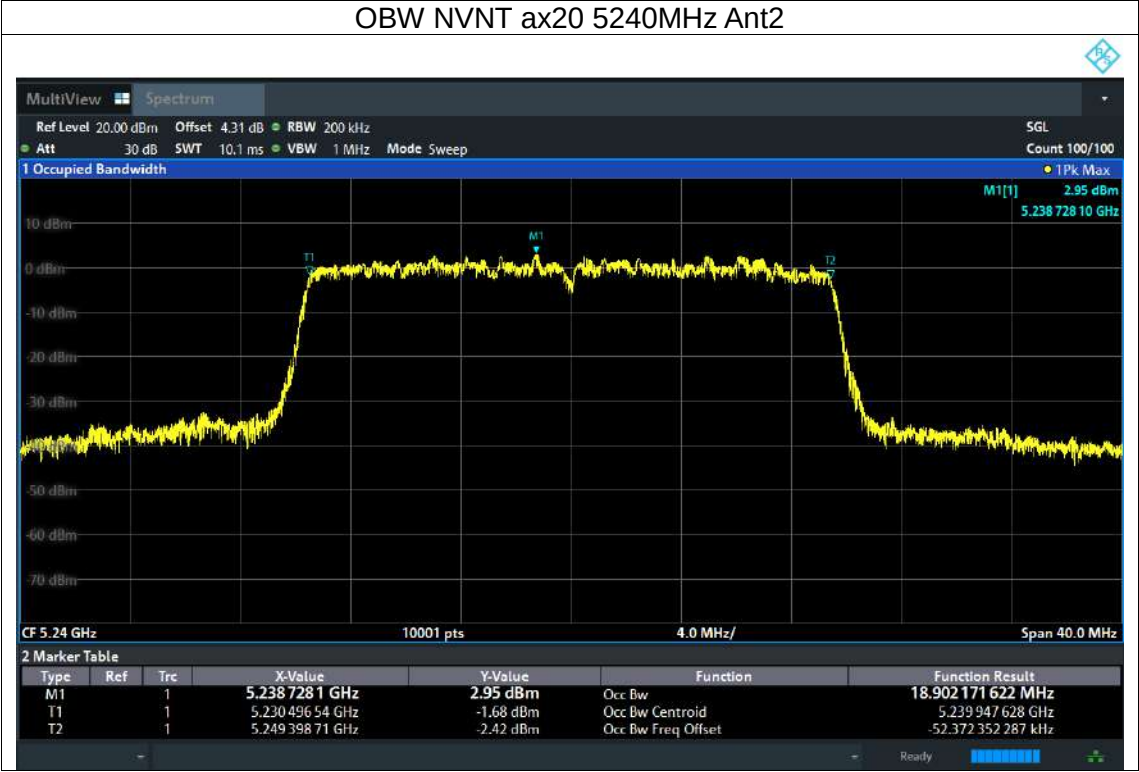
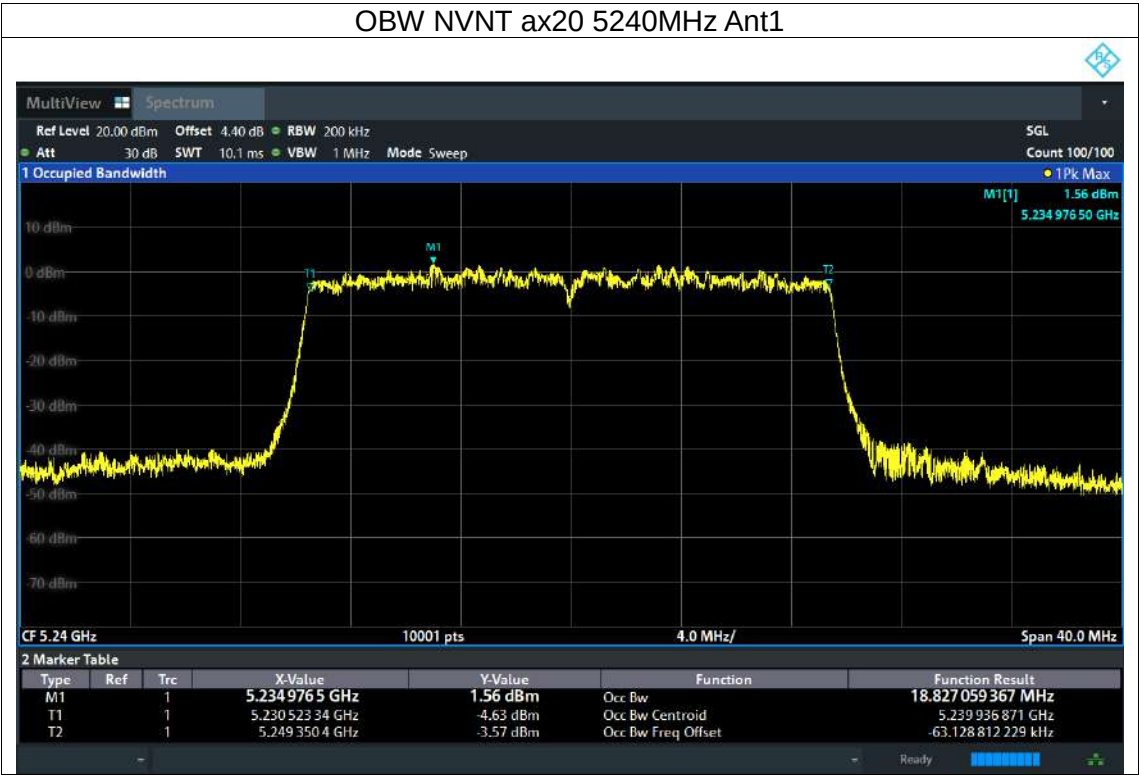
OBW NVNT ax20 5180MHz Ant1



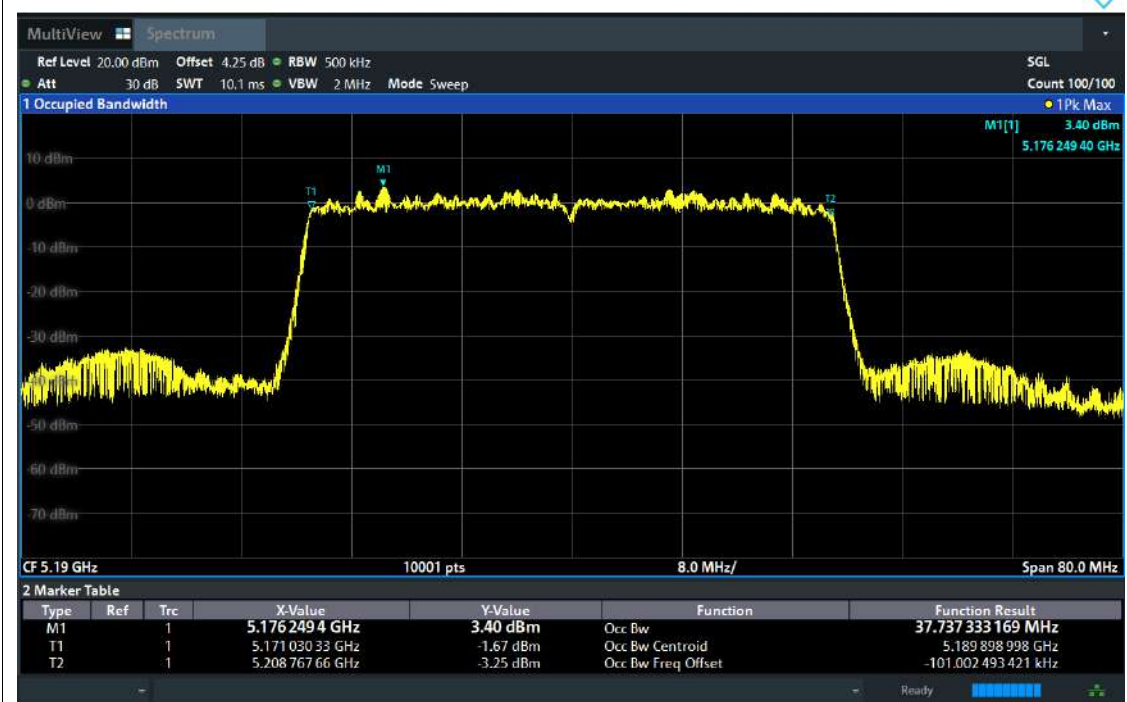
OBW NVNT ax20 5180MHz Ant2





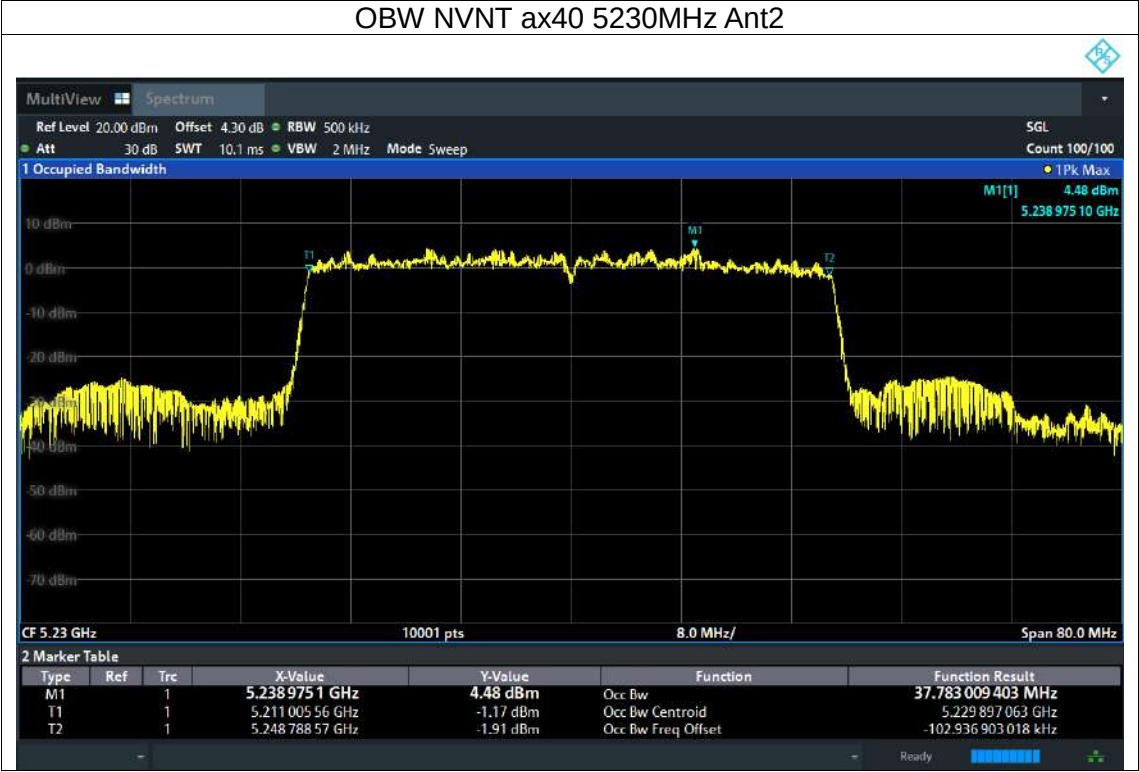
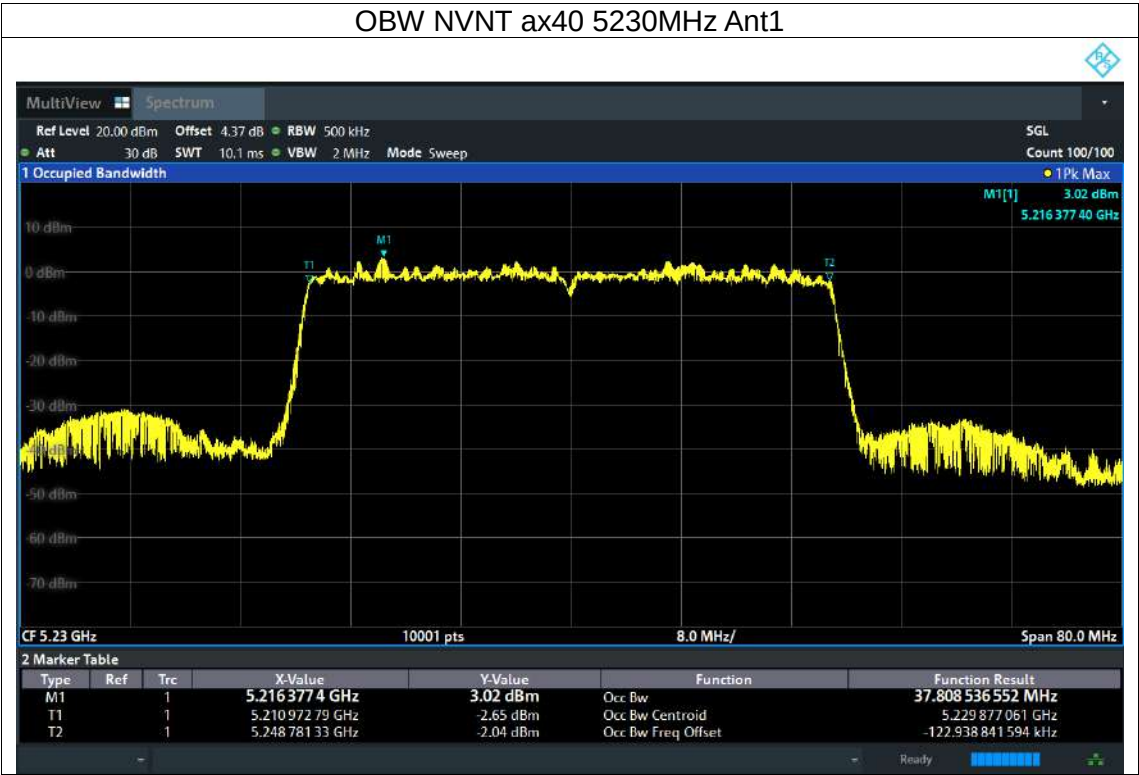


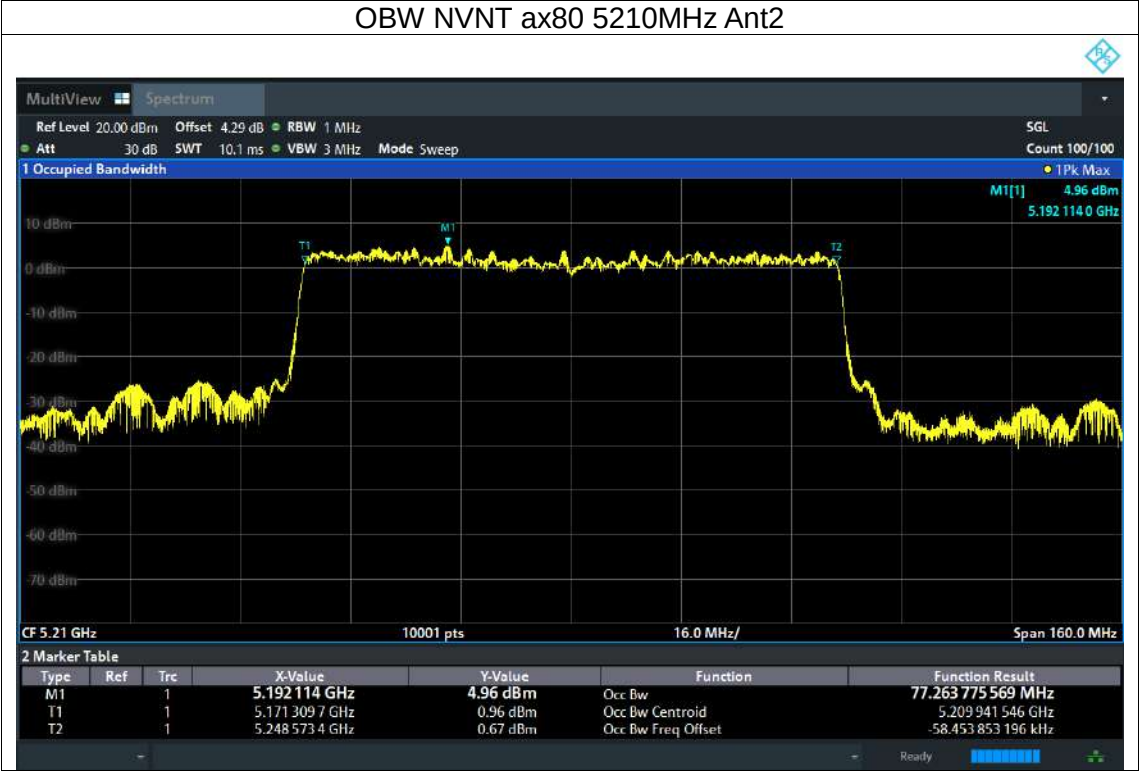
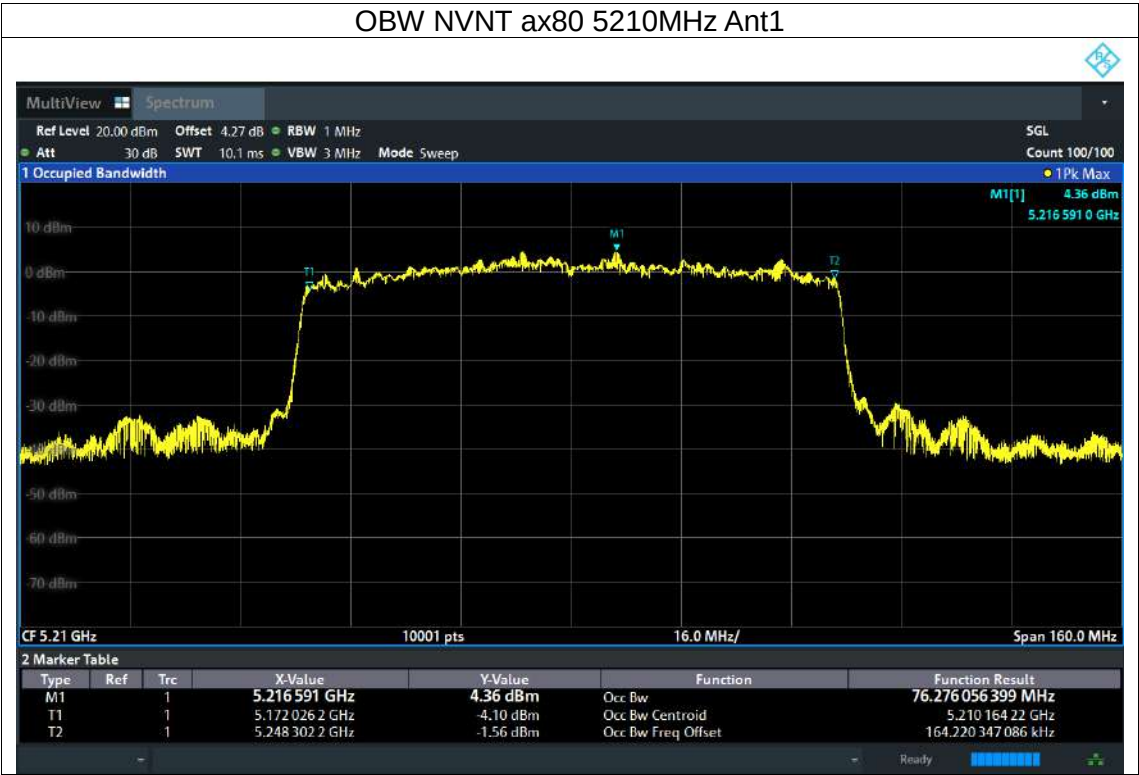
OBW NVNT ax40 5190MHz Ant1



OBW NVNT ax40 5190MHz Ant2







For U-NII-2A

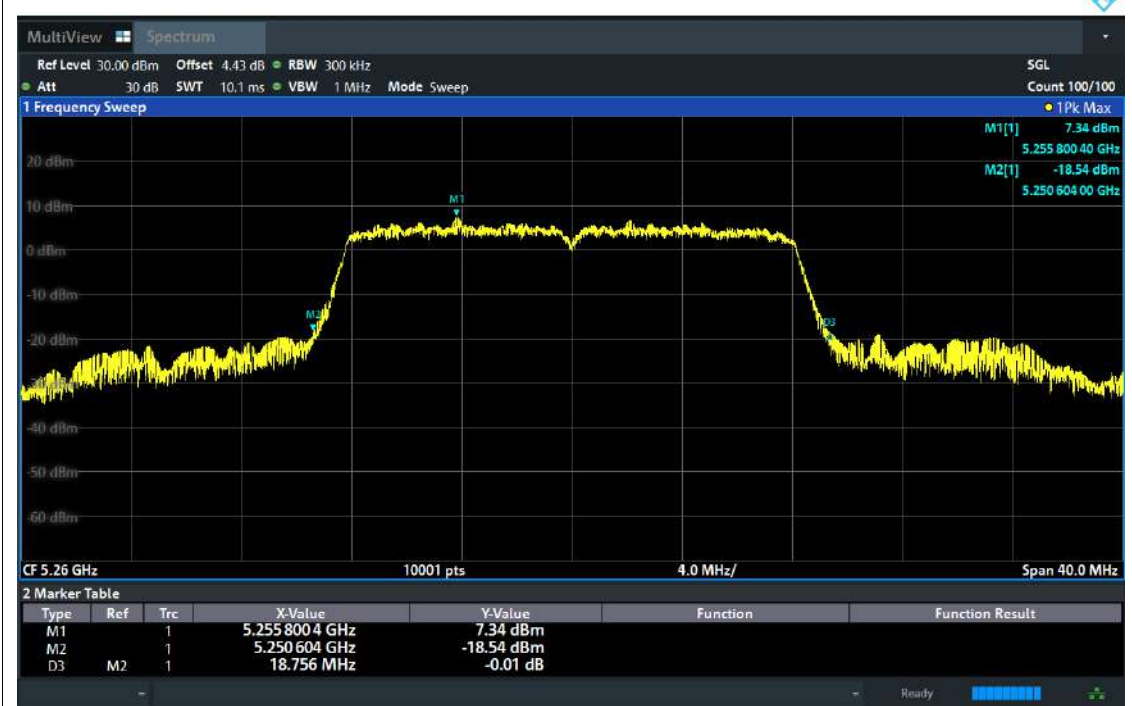
ANT1:

Channel	Test Channel	Frequency (MHz)	26dB bandwidth (MHz)	Limit (kHz)	99% bandwidth (MHz)	Limit (kHz)	Result
11a	CH52	5260	18.756	/	16.387	/	Pass
11a	CH56	5280	24.936	/	16.385	/	Pass
11a	CH64	5320	18.644	/	16.36	/	Pass
11n (HT20)	CH52	5260	19.676	/	17.492	/	Pass
11n (HT20)	CH56	5280	19.732	/	17.491	/	Pass
11n (HT20)	CH64	5320	19.712	/	17.485	/	Pass
11n (HT40)	CH54	5270	39.496	/	36.126	/	Pass
11n (HT40)	CH62	5310	39.272	/	36.044	/	Pass
11ac (HT20)	CH52	5260	19.592	/	17.489	/	Pass
11ac (HT20)	CH56	5280	19.596	/	17.486	/	Pass
11ac (HT20)	CH64	5320	19.516	/	17.482	/	Pass
11ac (HT40)	CH54	5270	39.256	/	36.041	/	Pass
11ac (HT40)	CH62	5310	39.024	/	35.955	/	Pass
11ac (HT80)	CH58	5290	83.536	/	75.301	/	Pass
11ax (HT20)	CH52	5260	20.132	/	18.839	/	Pass
11ax (HT20)	CH56	5280	20.136	/	18.827	/	Pass
11ax (HT20)	CH64	5320	20.096	/	18.834	/	Pass
11ax (HT40)	CH54	5270	40.264	/	37.846	/	Pass
11ax (HT40)	CH62	5310	40.92	/	37.746	/	Pass
11ax (HT80)	CH58	5290	80.624	/	76.457	/	Pass

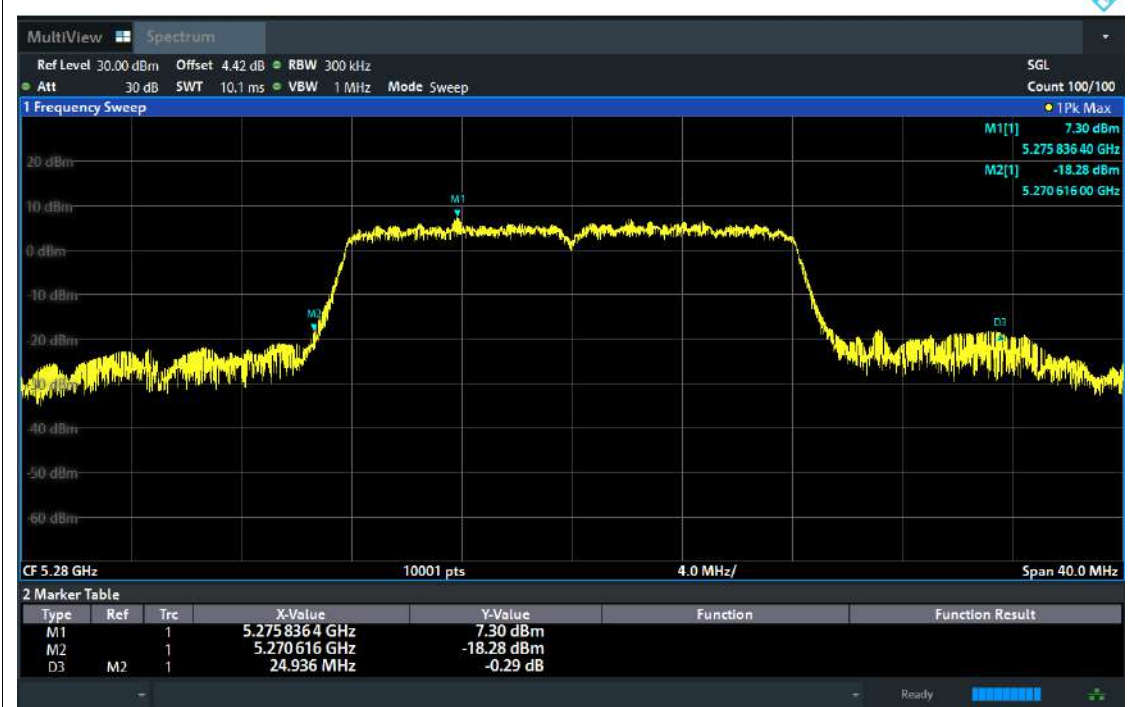
ANT2:

Channel	Test Channel	Frequency (MHz)	26dB bandwidth (MHz)	Limit (kHz)	99% bandwidth (MHz)	Limit (kHz)	Result
11a	CH52	5260	18.672	/	16.354	/	Pass
11a	CH56	5280	18.644	/	16.366	/	Pass
11a	CH64	5320	24.732	/	16.381	/	Pass
11n (HT20)	CH52	5260	19.412	/	17.519	/	Pass
11n (HT20)	CH56	5280	19.404	/	17.523	/	Pass
11n (HT20)	CH64	5320	19.428	/	17.534	/	Pass
11n (HT40)	CH54	5270	38.808	/	36.043	/	Pass
11n (HT40)	CH62	5310	38.888	/	36.155	/	Pass
11ac (HT20)	CH52	5260	19.448	/	17.509	/	Pass
11ac (HT20)	CH56	5280	19.452	/	17.518	/	Pass
11ac (HT20)	CH64	5320	19.664	/	17.525	/	Pass
11ac (HT40)	CH54	5270	38.792	/	35.953	/	Pass
11ac (HT40)	CH62	5310	38.776	/	36.059	/	Pass
11ac (HT80)	CH58	5290	85.456	/	76.312	/	Pass
11ax (HT20)	CH52	5260	20.492	/	18.897	/	Pass
11ax (HT20)	CH56	5280	20.556	/	18.9	/	Pass
11ax (HT20)	CH64	5320	20.52	/	18.901	/	Pass
11ax (HT40)	CH54	5270	40.104	/	37.782	/	Pass
11ax (HT40)	CH62	5310	69.52	/	38.03	/	Pass
11ax (HT80)	CH58	5290	81.232	/	77.315	/	Pass

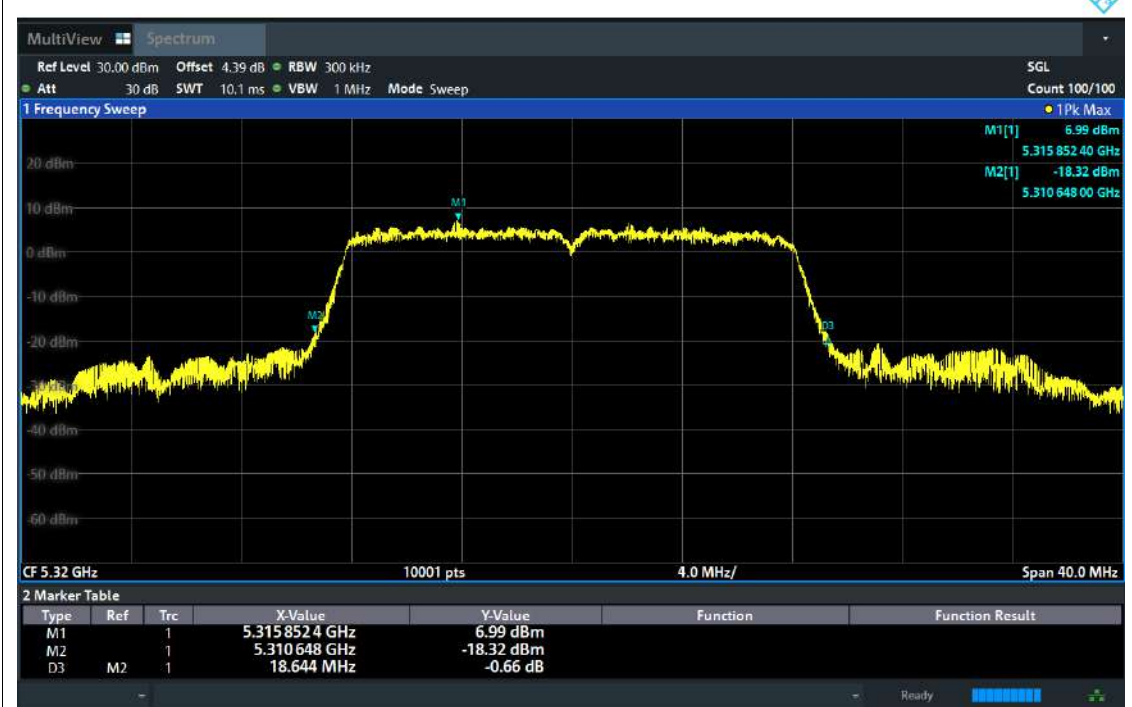
-26dB Bandwidth NVNT a 5260MHz Ant1



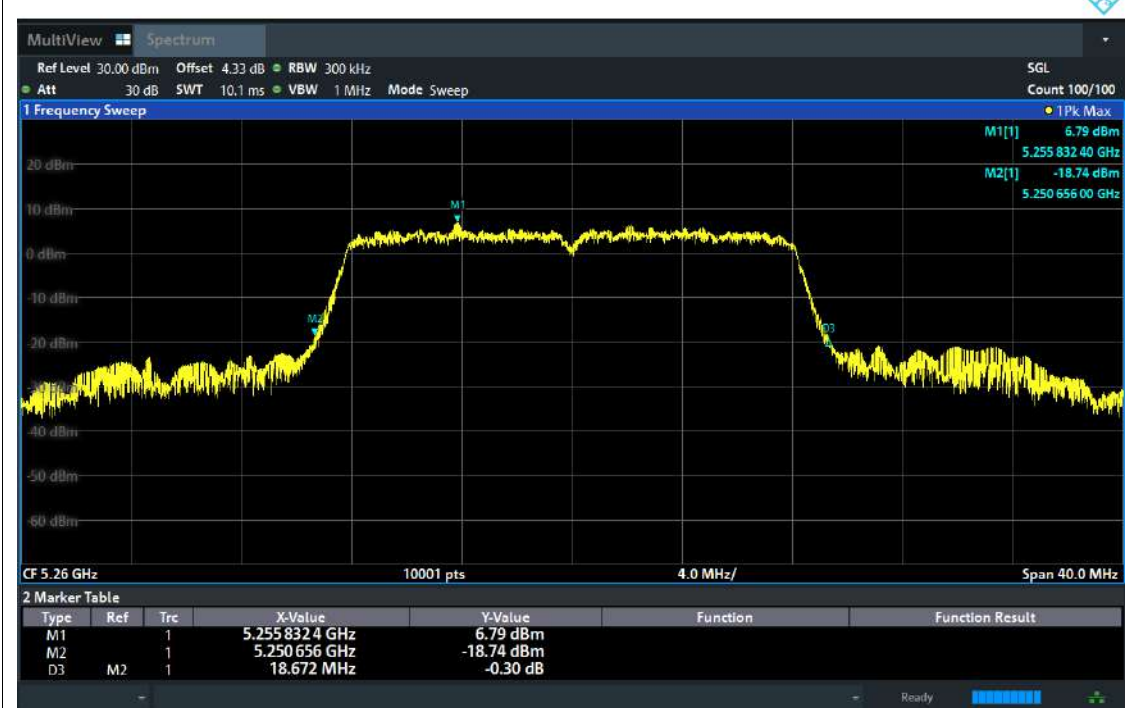
-26dB Bandwidth NVNT a 5280MHz Ant1



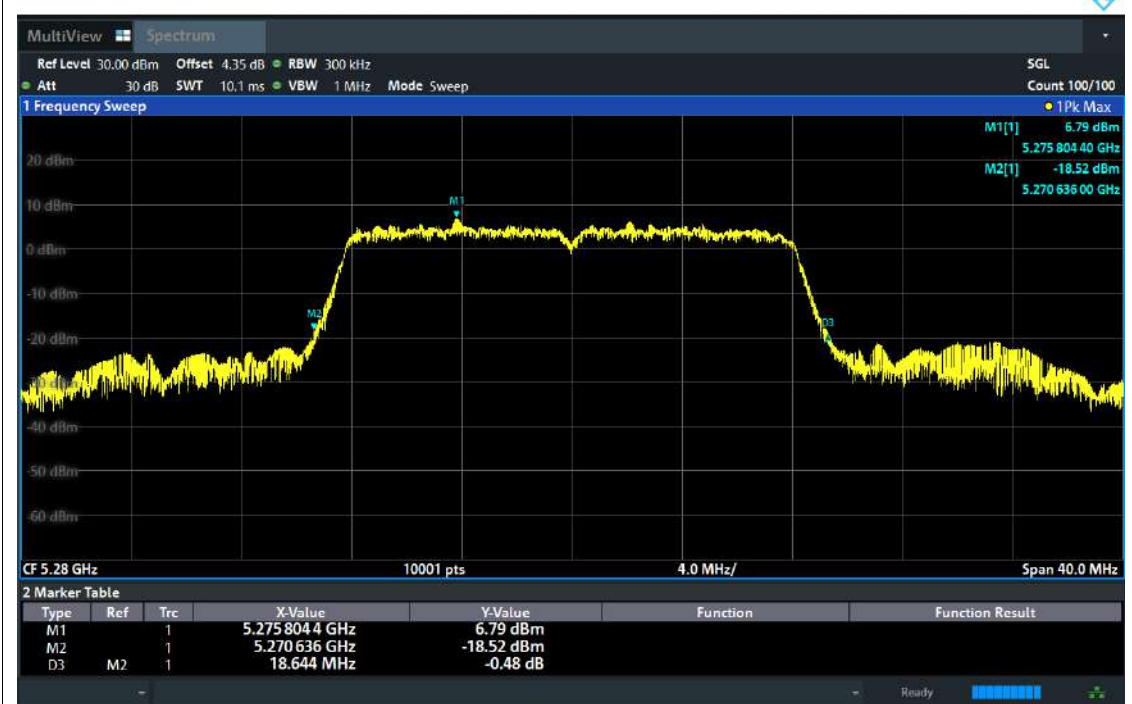
-26dB Bandwidth NVNT a 5320MHz Ant1



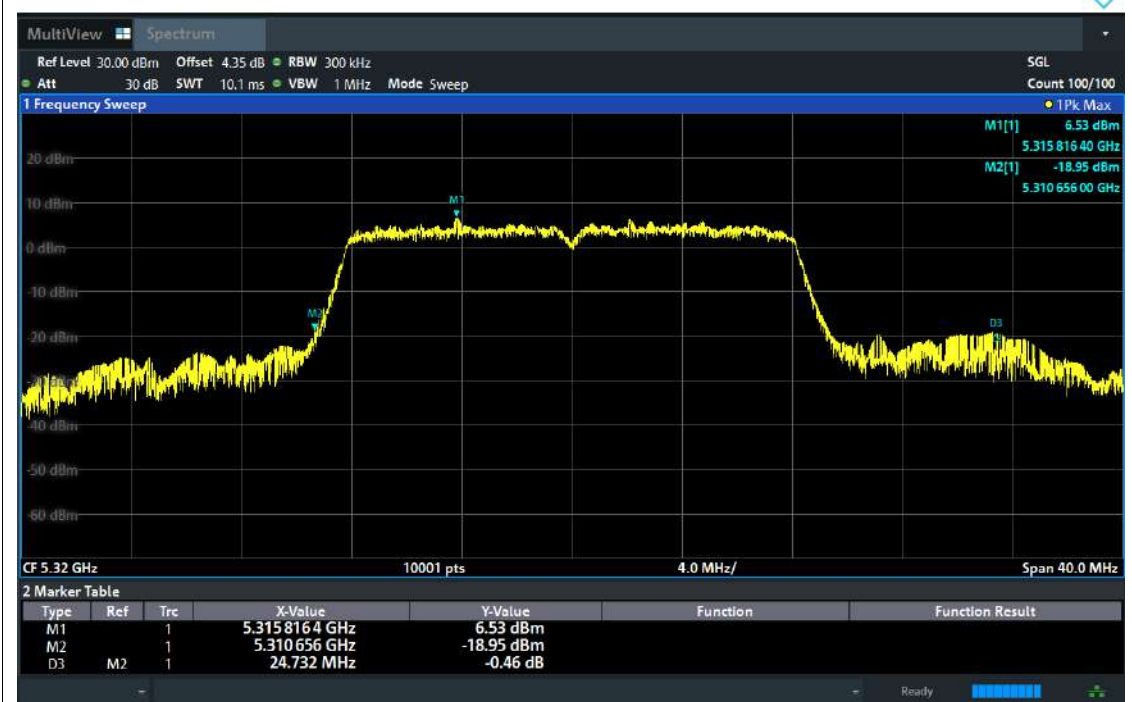
-26dB Bandwidth NVNT a 5260MHz Ant2



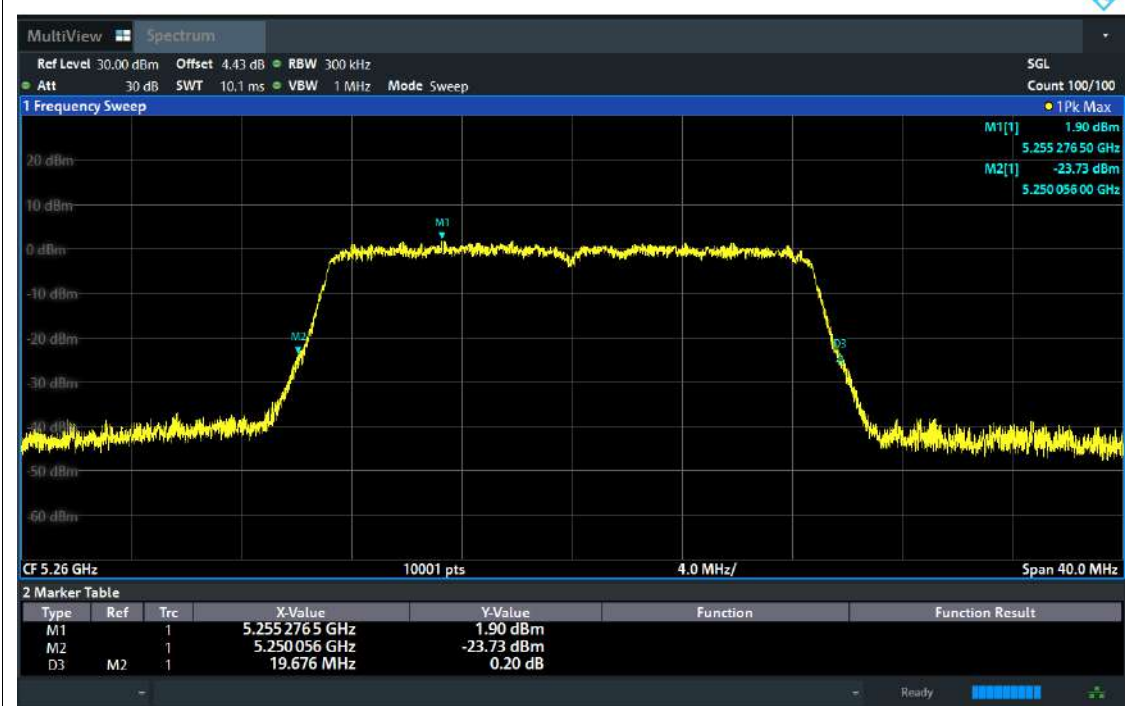
-26dB Bandwidth NVNT a 5280MHz Ant2



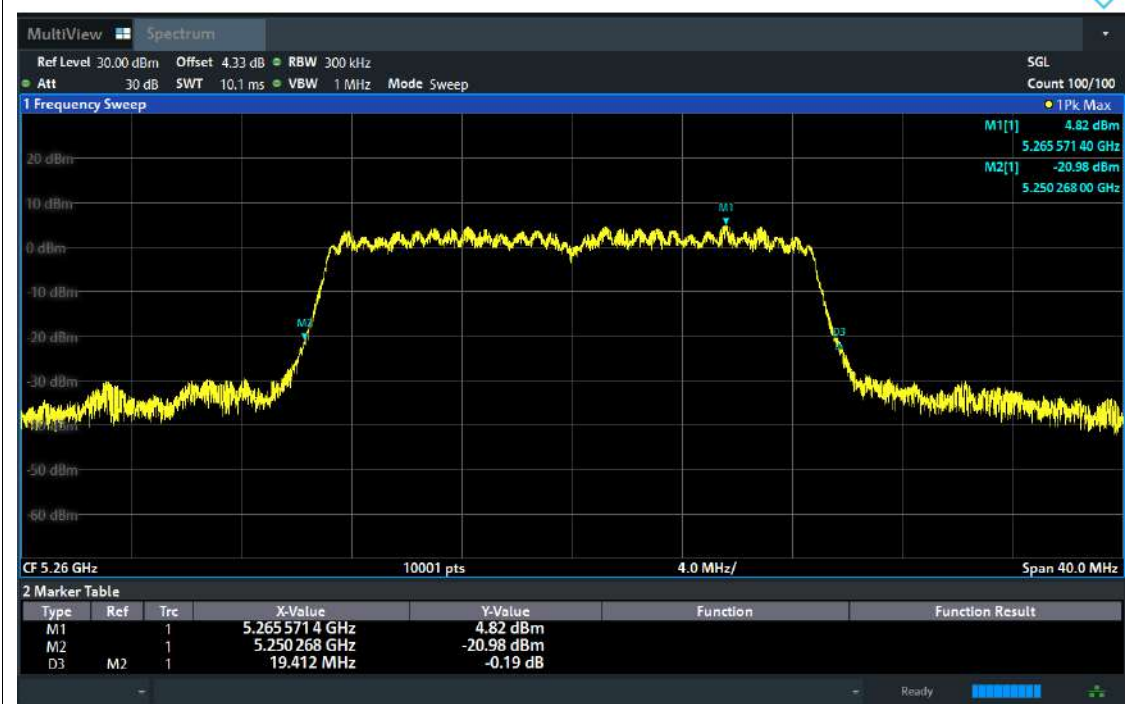
-26dB Bandwidth NVNT a 5320MHz Ant2



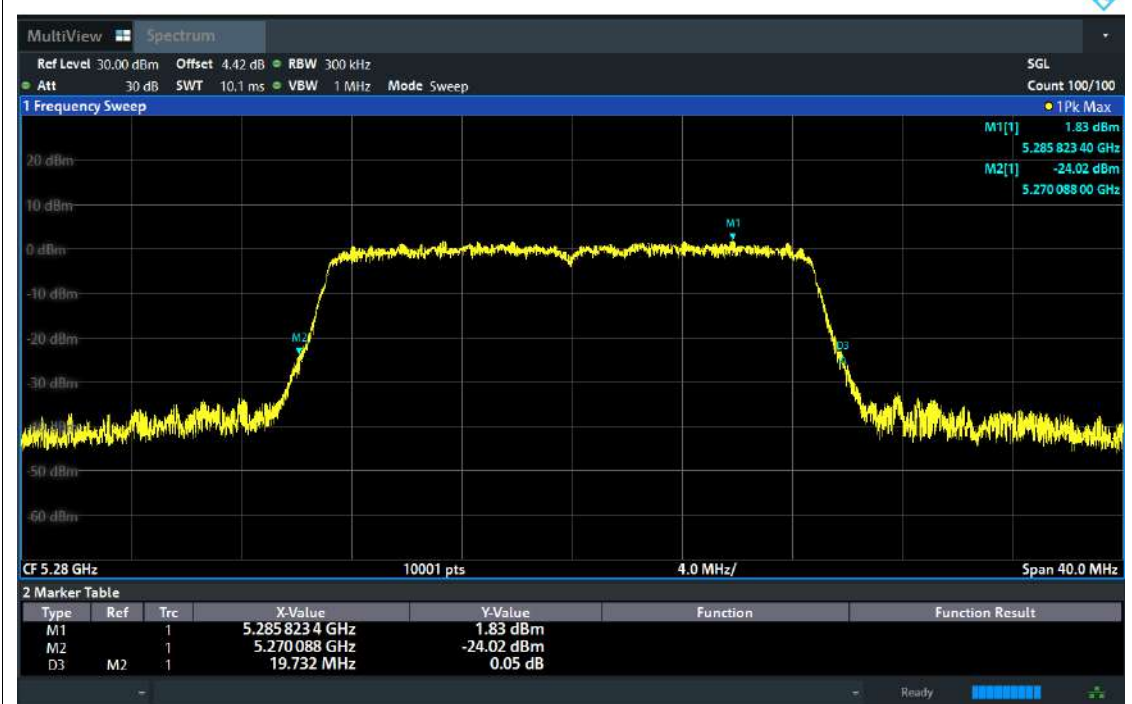
-26dB Bandwidth NVNT n20 5260MHz Ant1



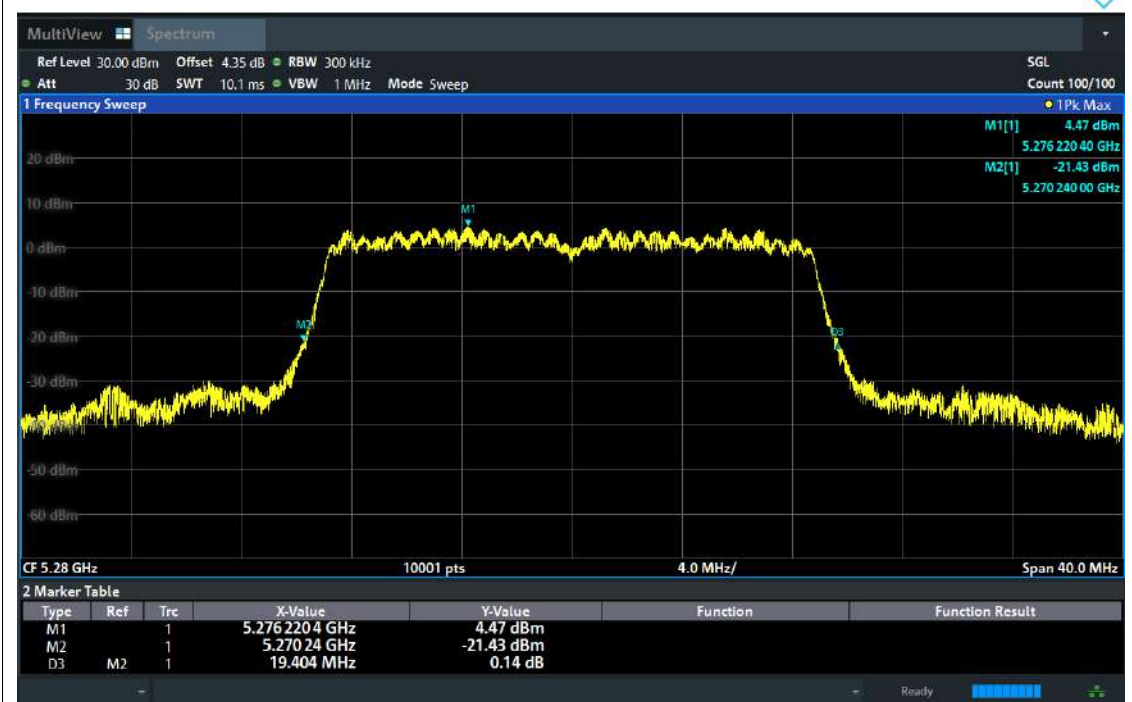
-26dB Bandwidth NVNT n20 5260MHz Ant2



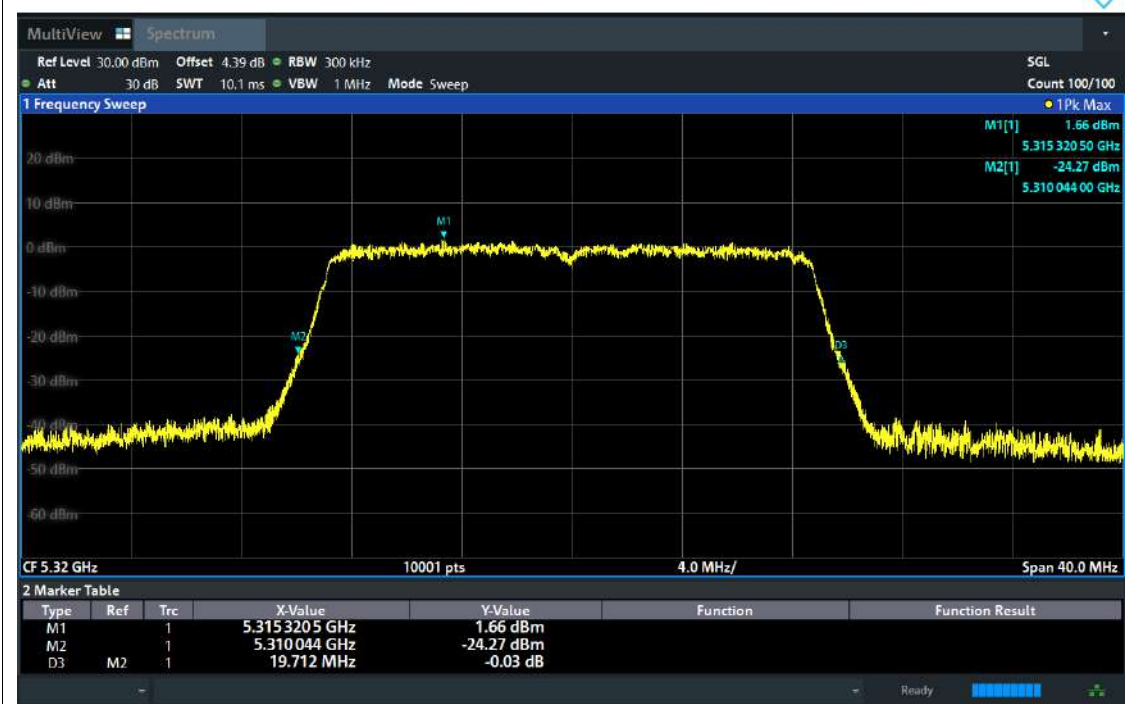
-26dB Bandwidth NVNT n20 5280MHz Ant1



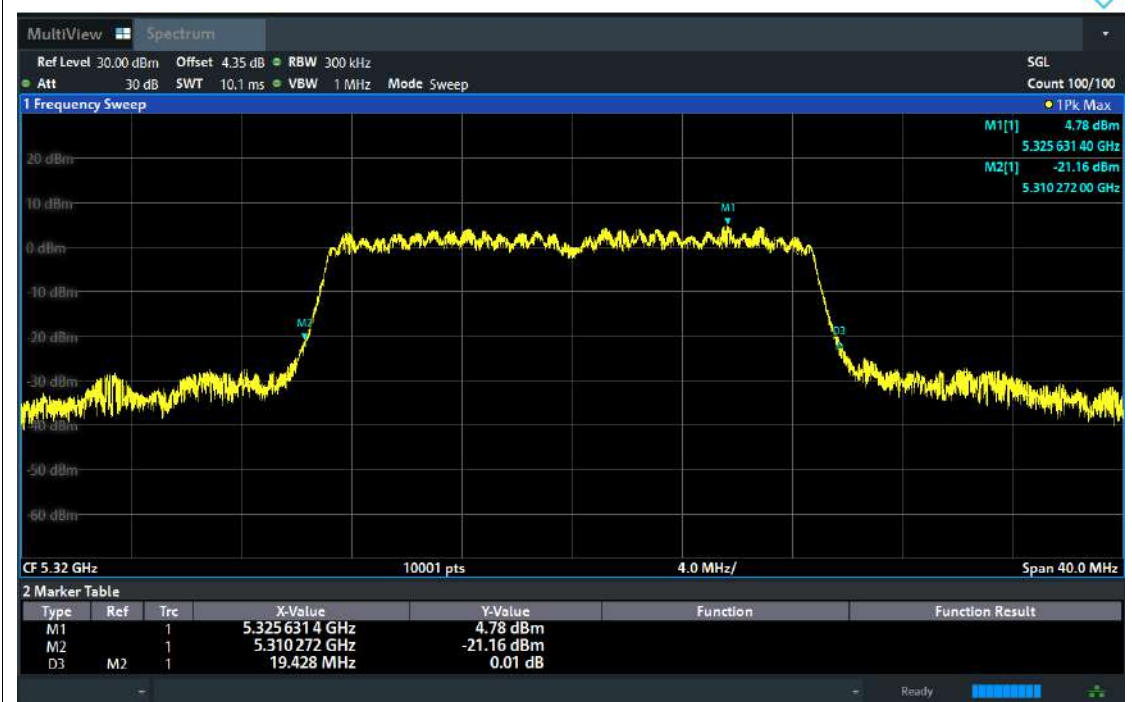
-26dB Bandwidth NVNT n20 5280MHz Ant2



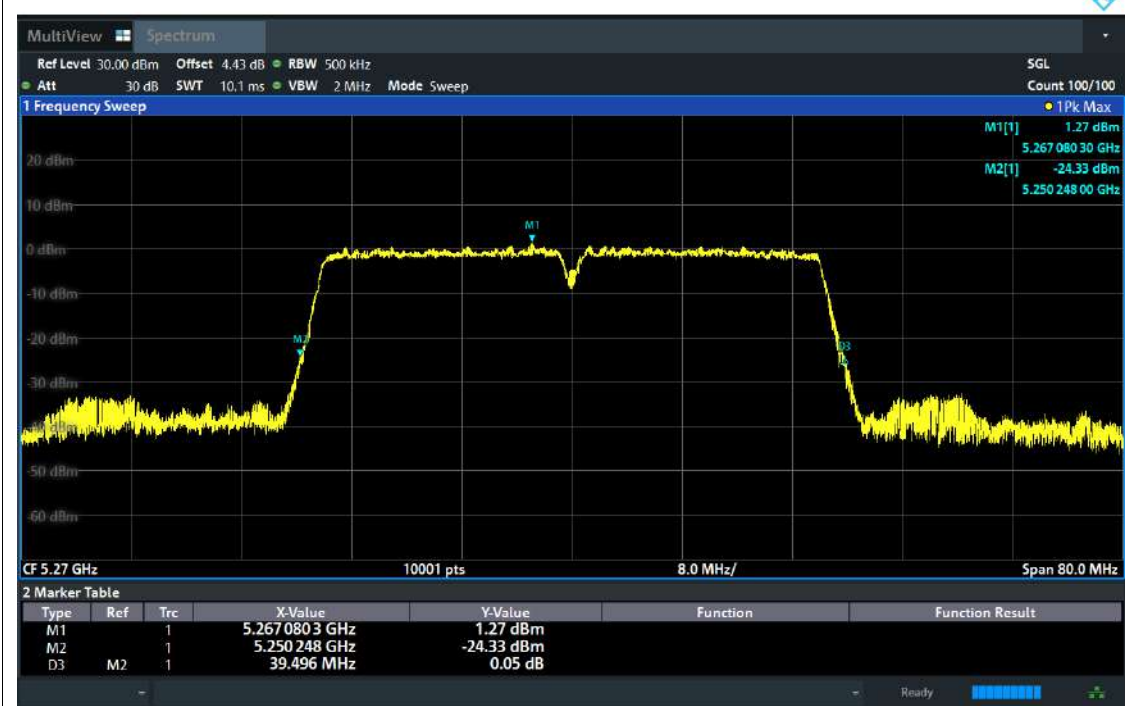
-26dB Bandwidth NVNT n20 5320MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant2



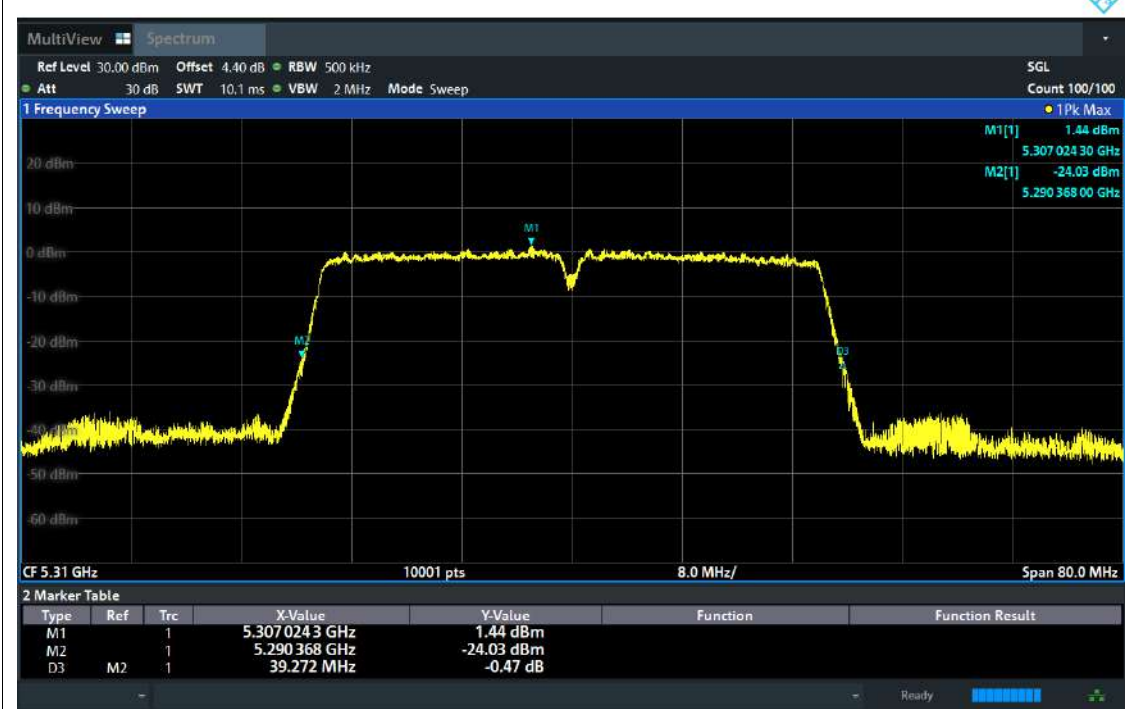
-26dB Bandwidth NVNT n40 5270MHz Ant1



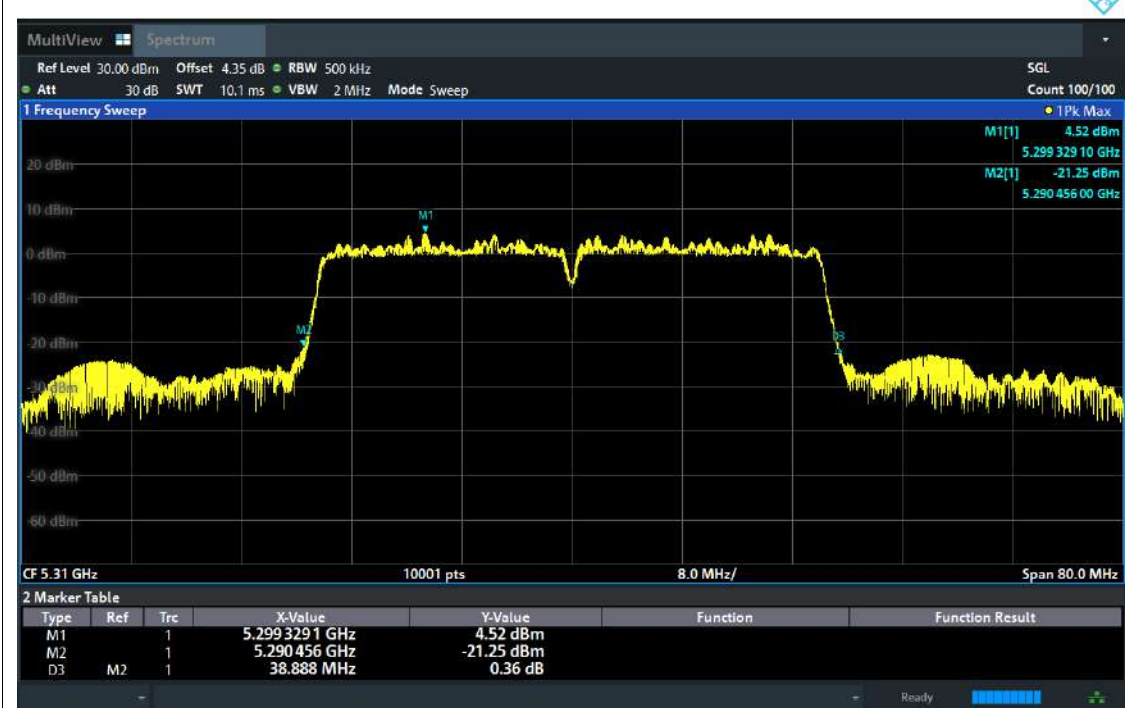
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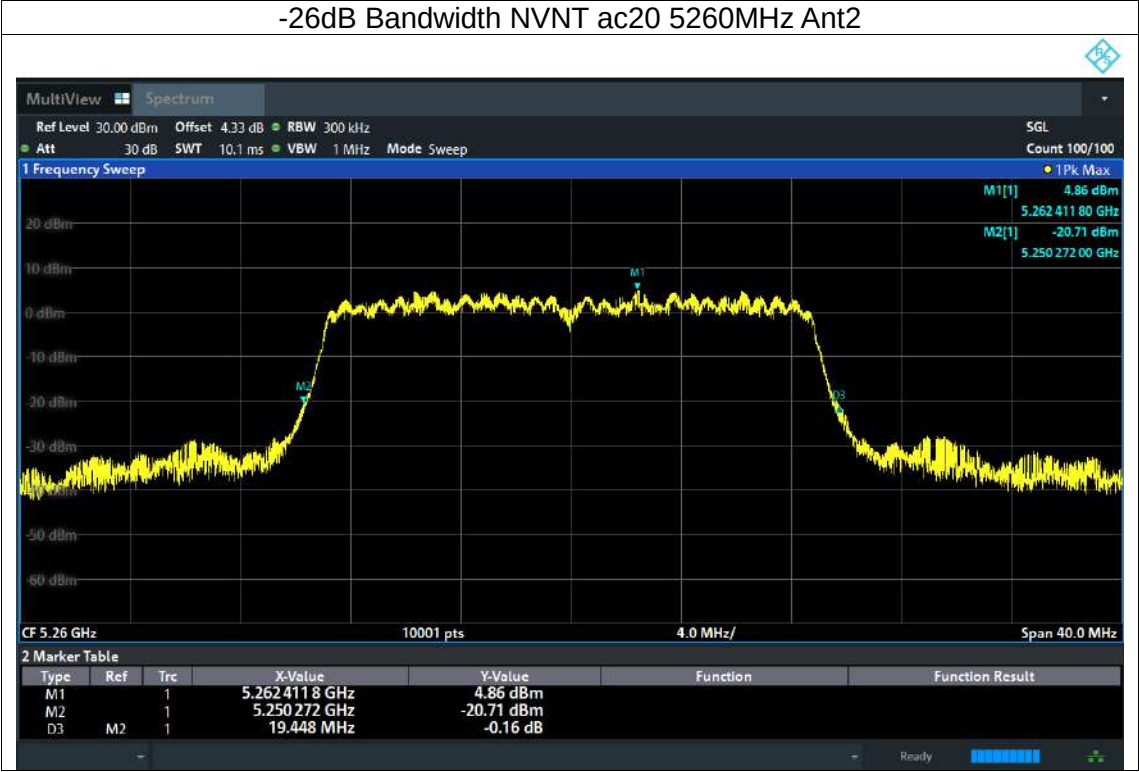
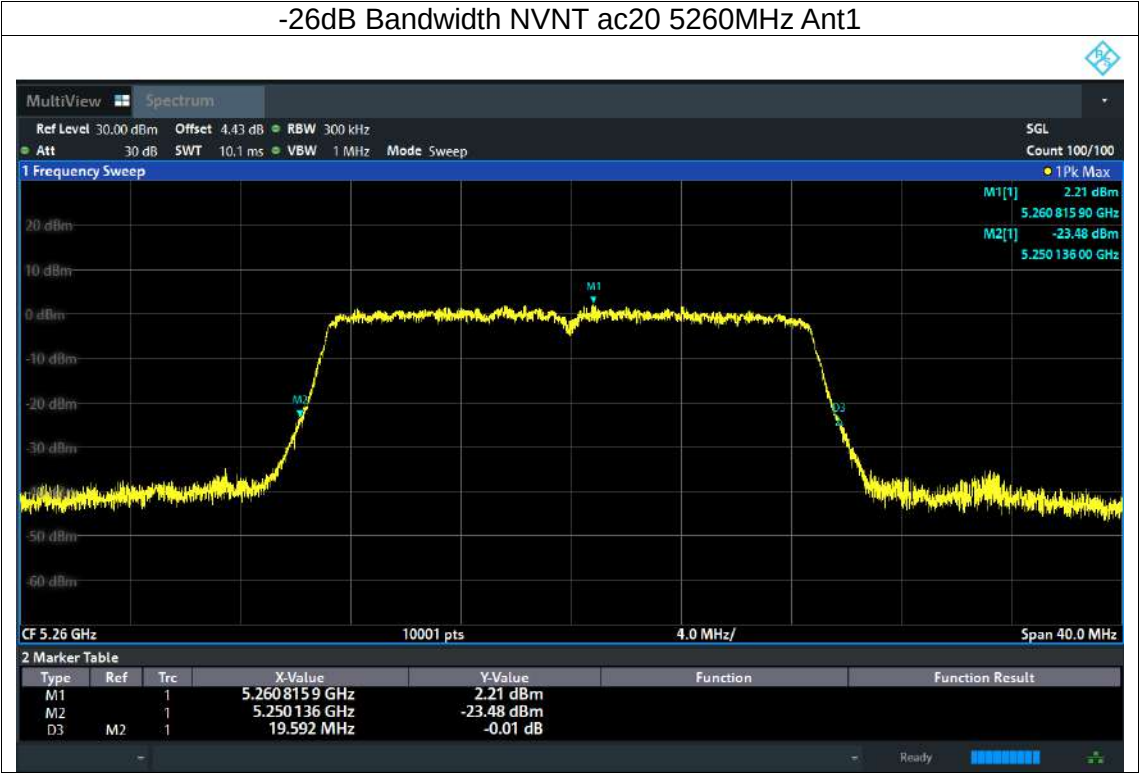


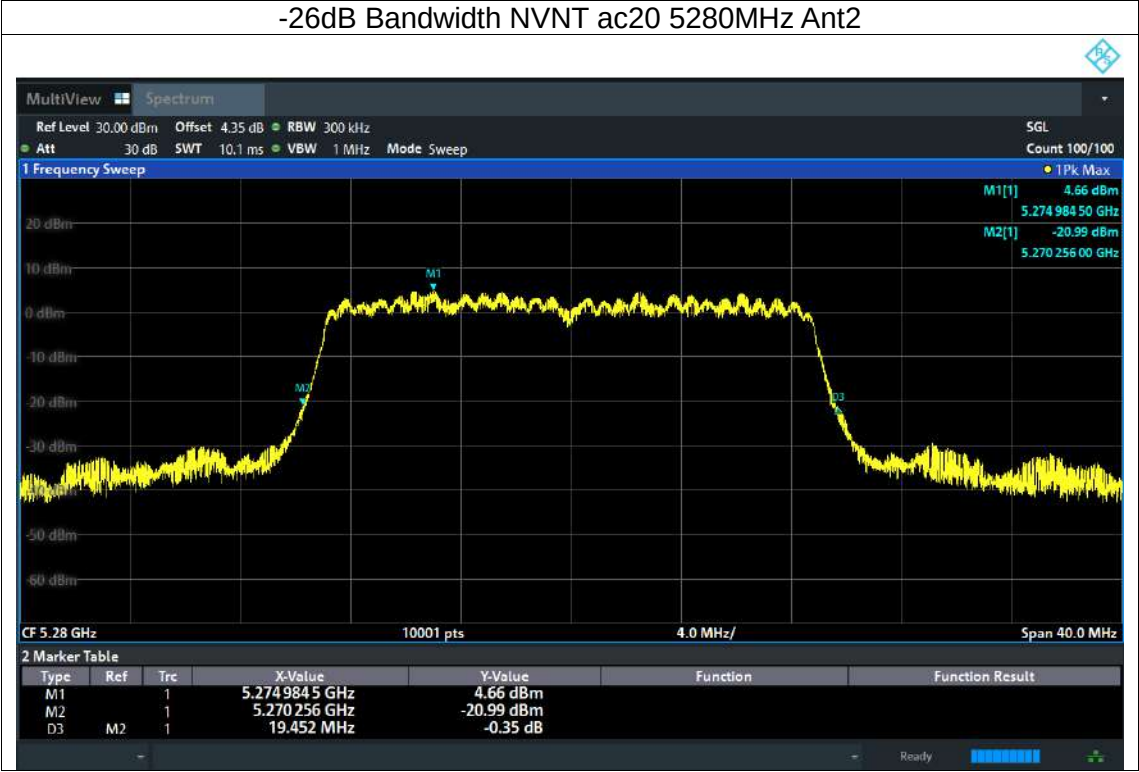
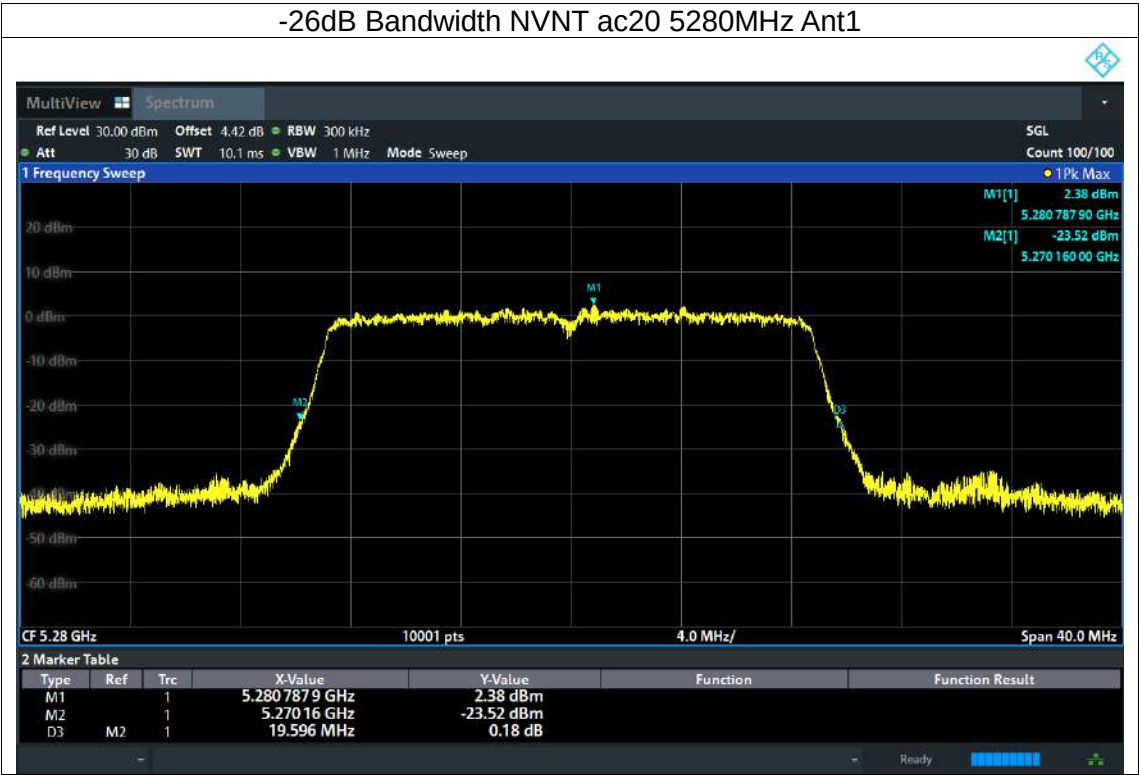
-26dB Bandwidth NVNT n40 5310MHz Ant1



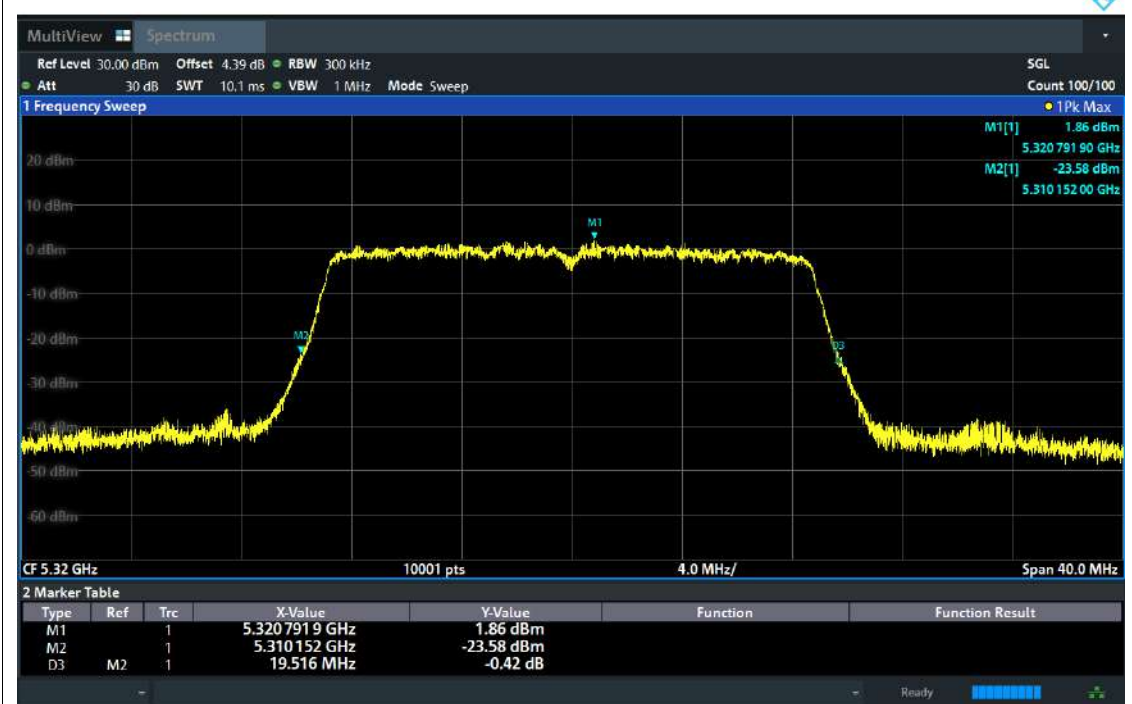
-26dB Bandwidth NVNT n40 5310MHz Ant2



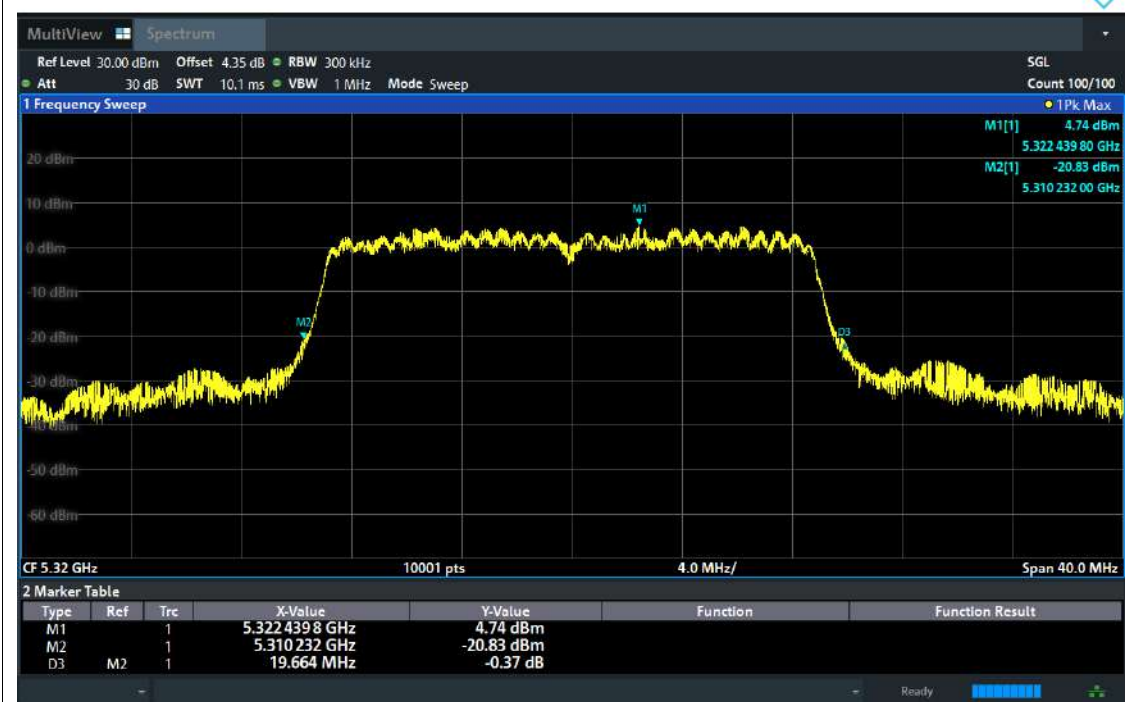




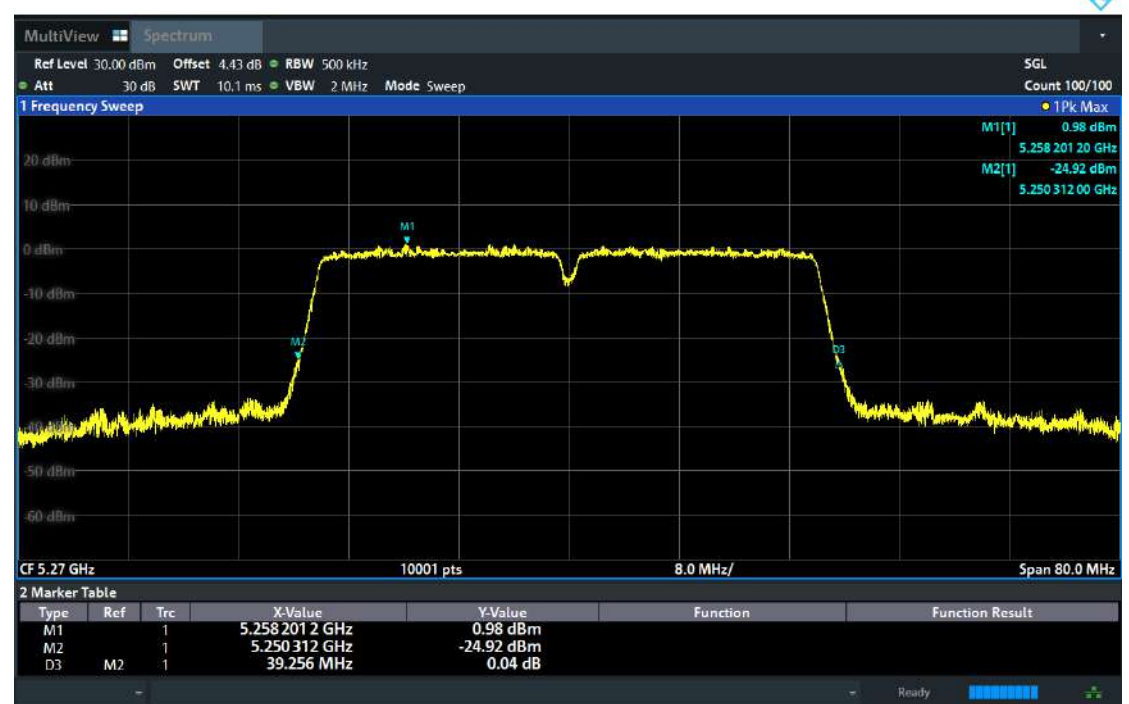
-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac20 5320MHz Ant2



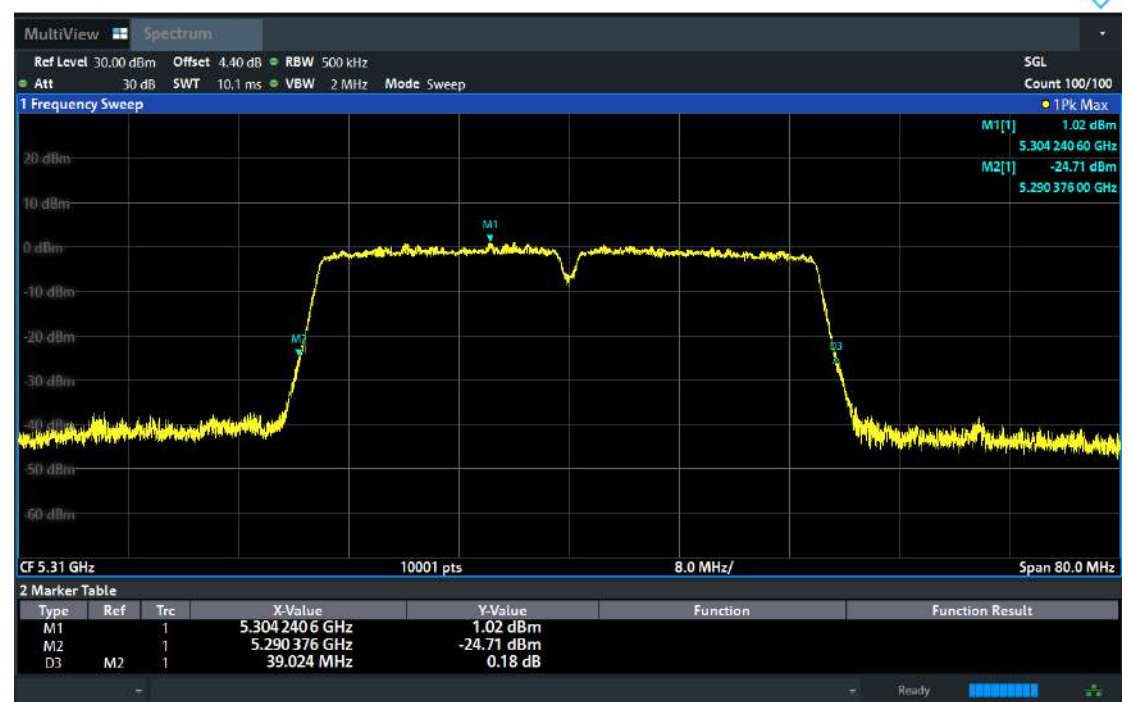
-26dB Bandwidth NVNT ac40 5270MHz Ant1



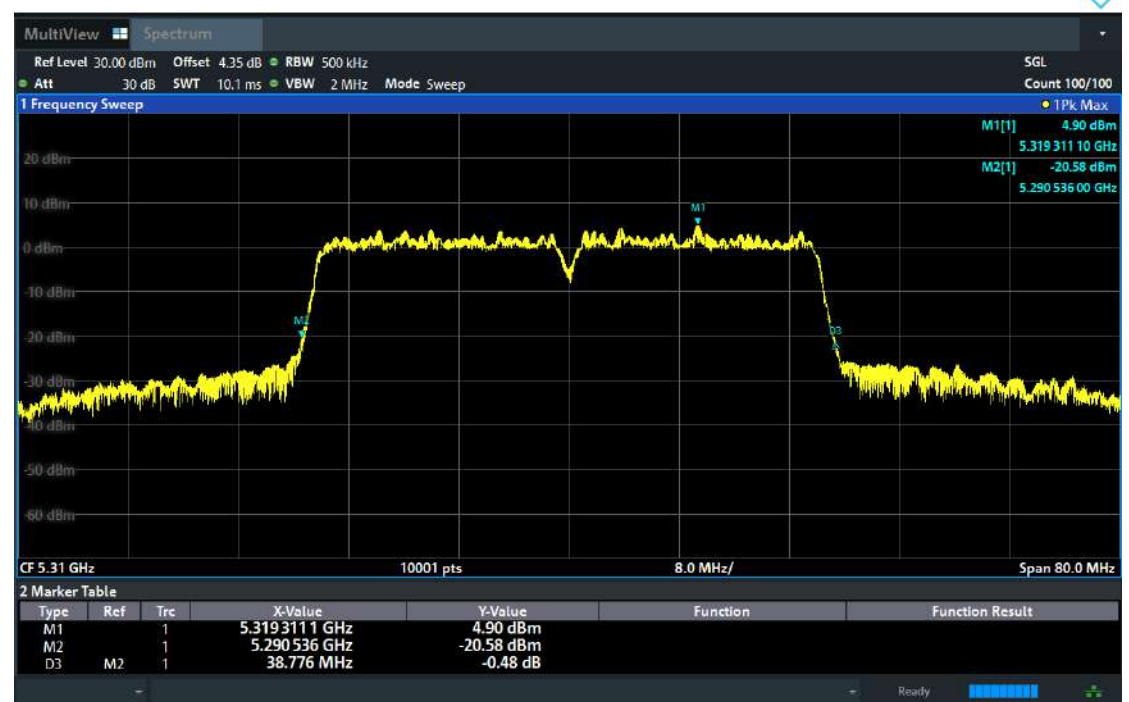
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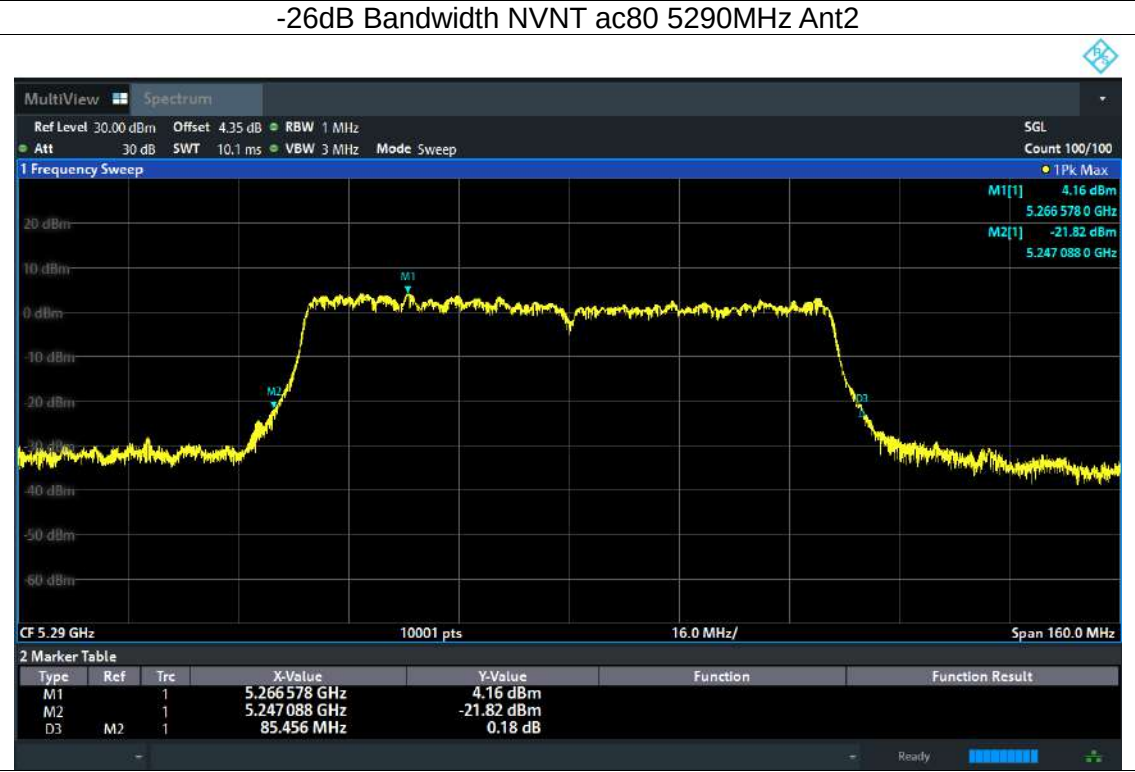
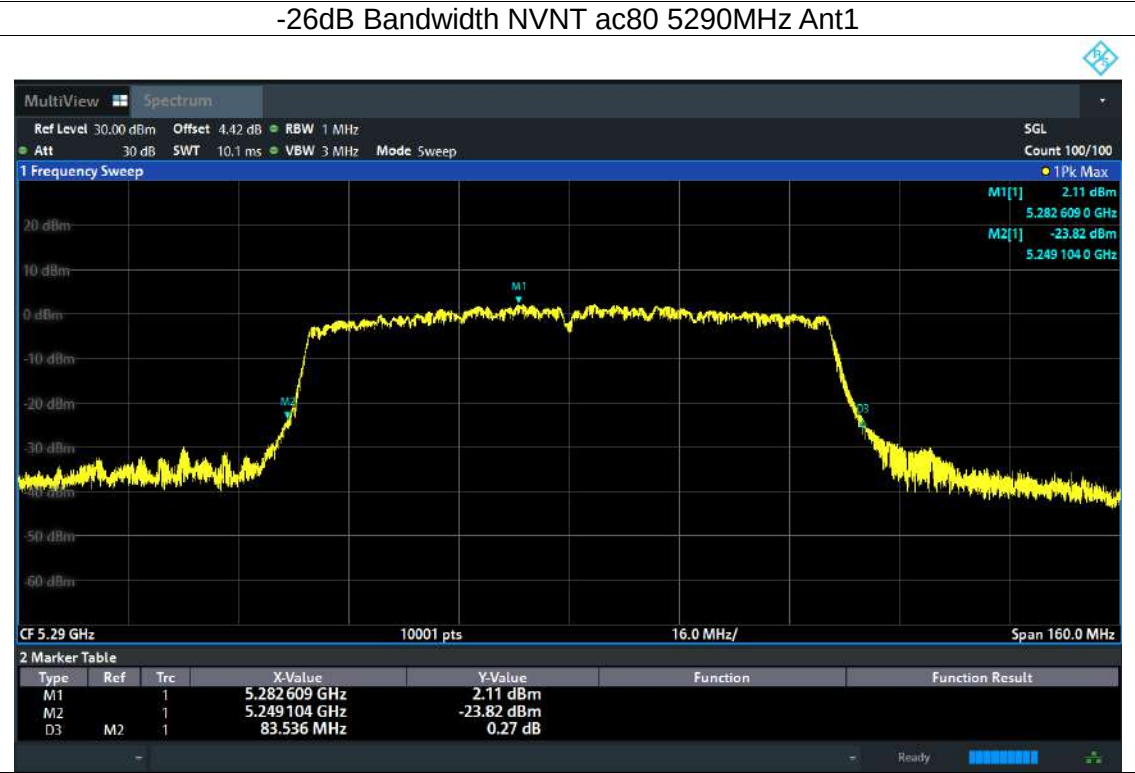


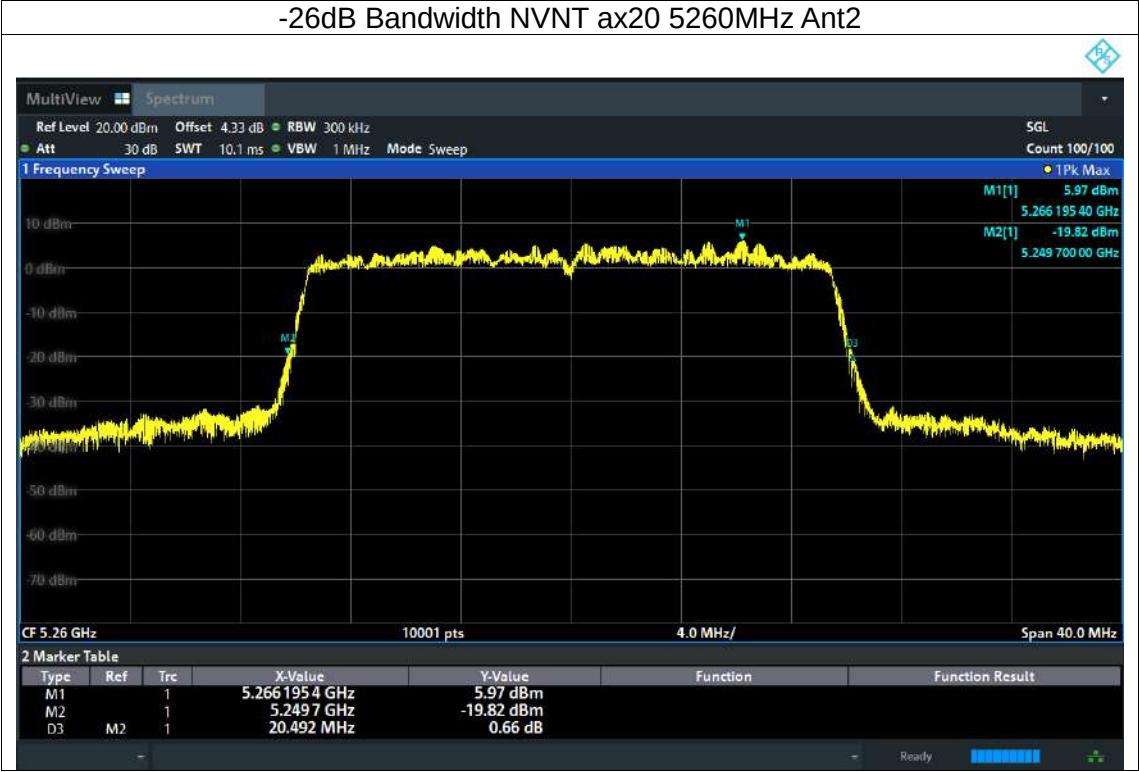
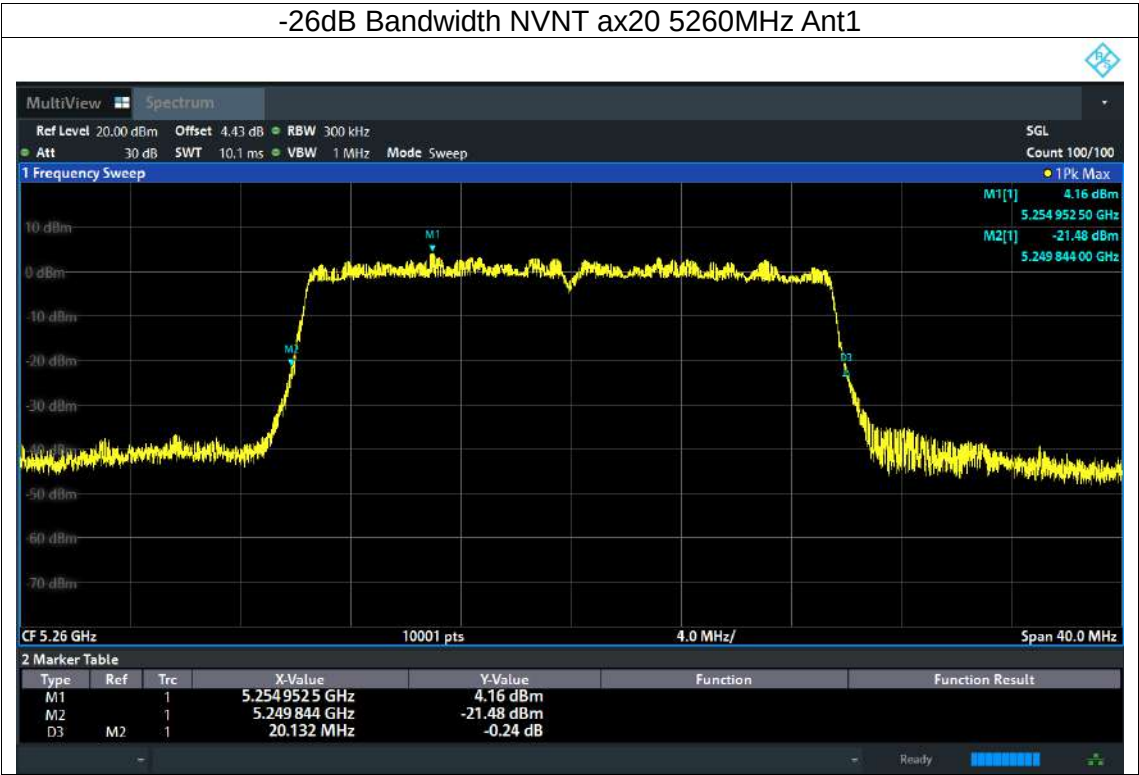
-26dB Bandwidth NVNT ac40 5310MHz Ant1

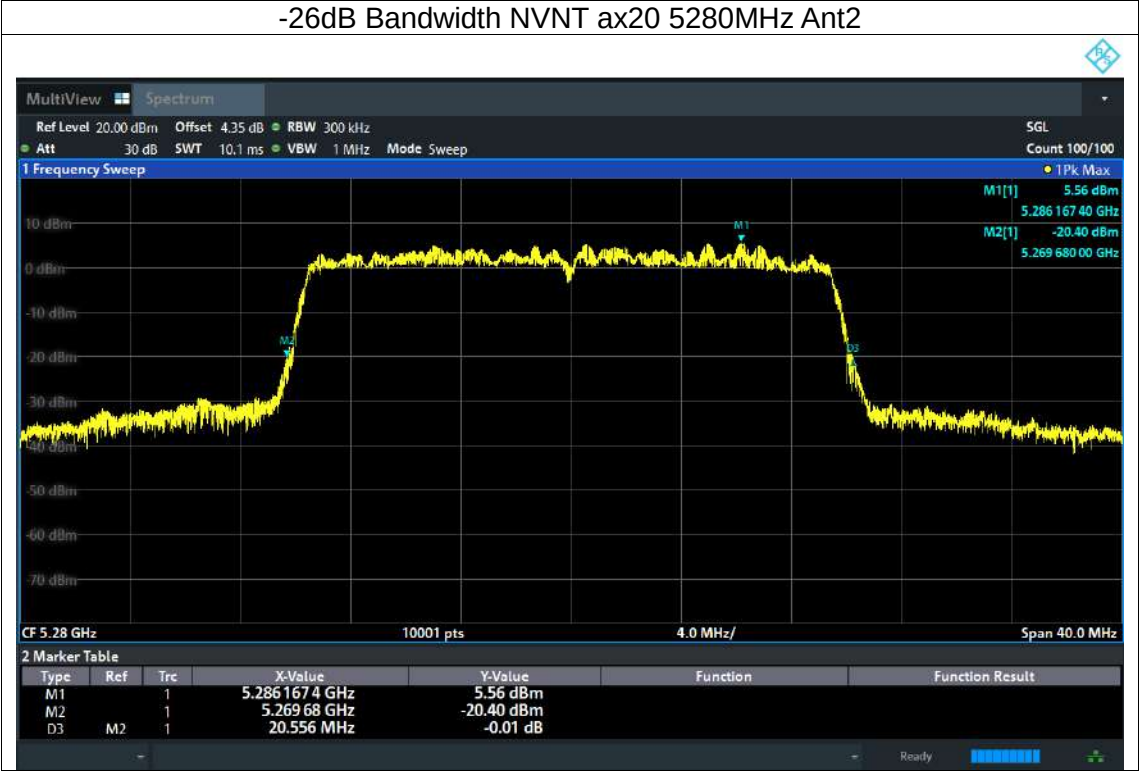
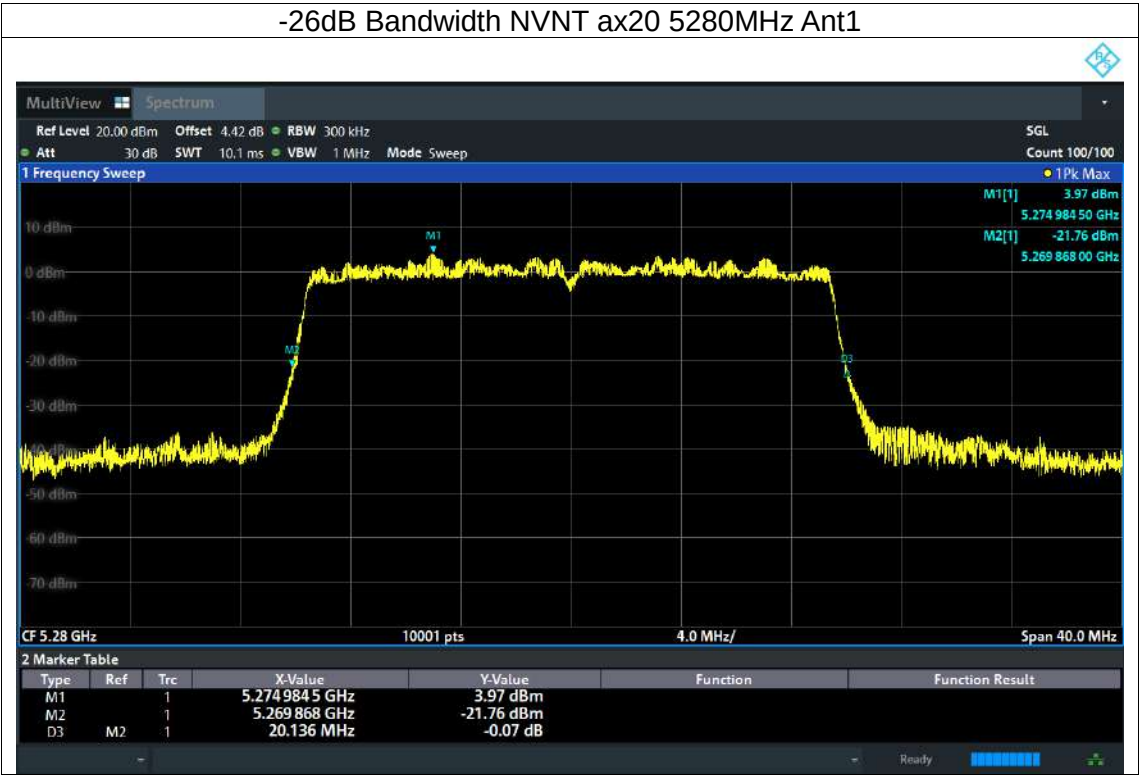


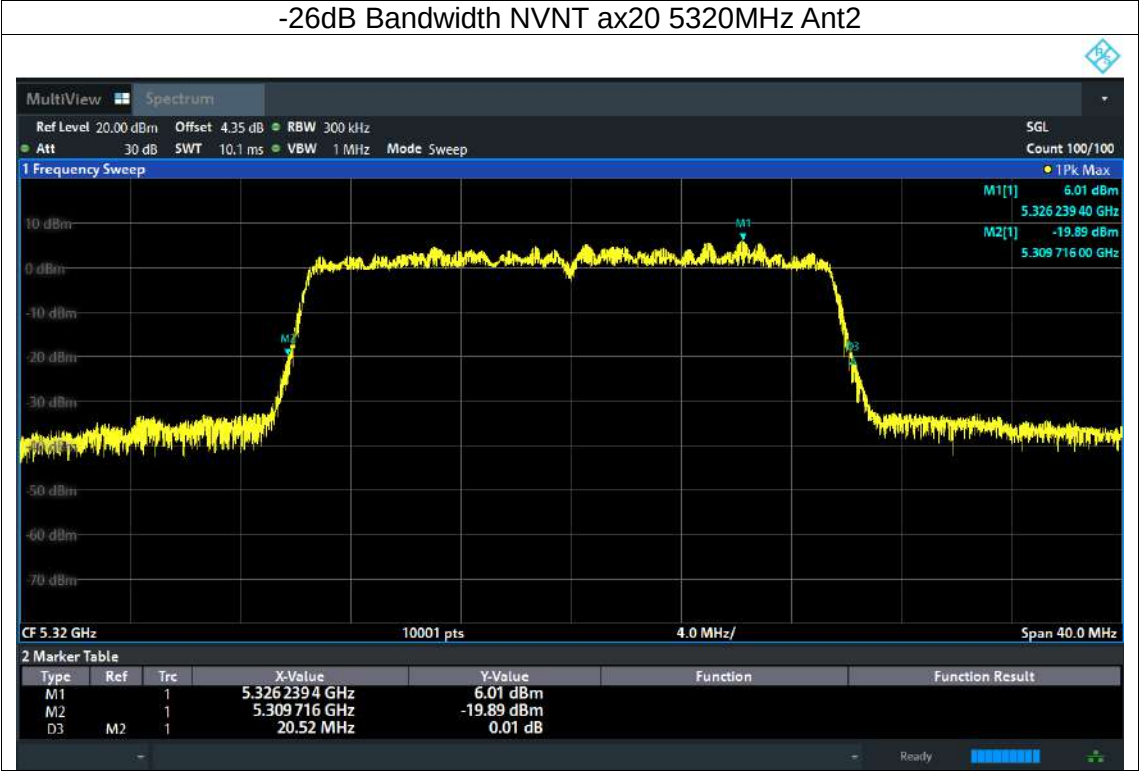
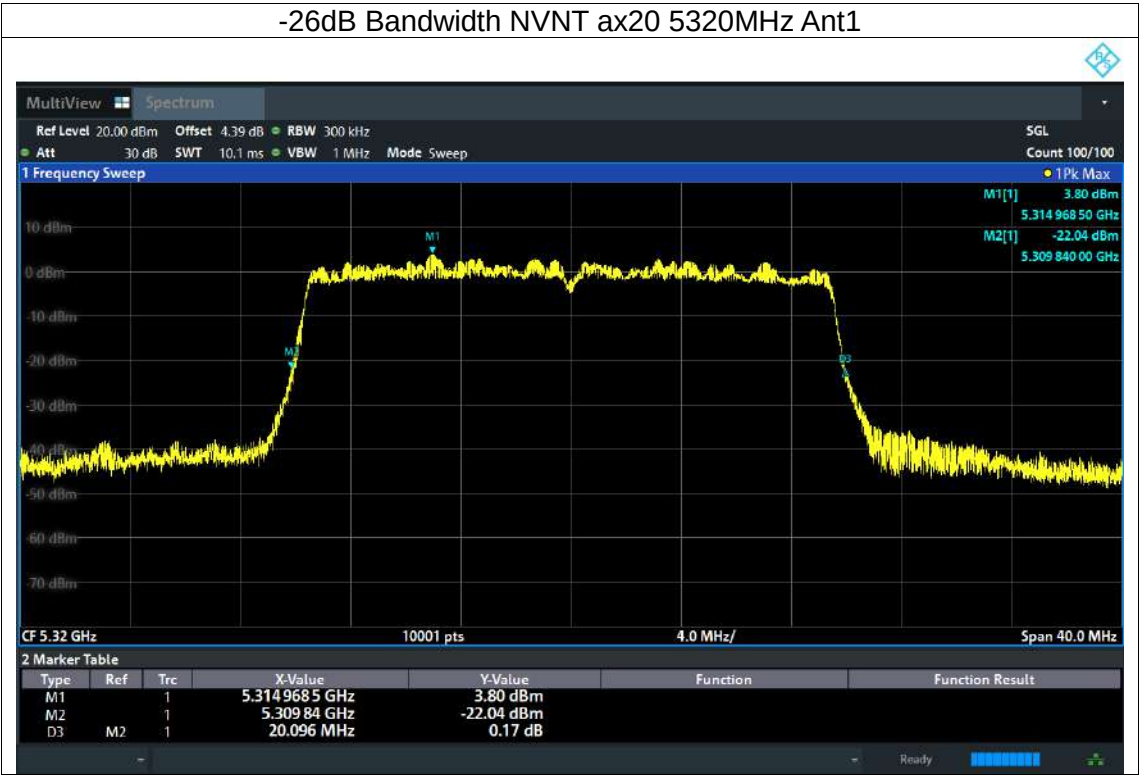
-26dB Bandwidth NVNT ac40 5310MHz Ant2



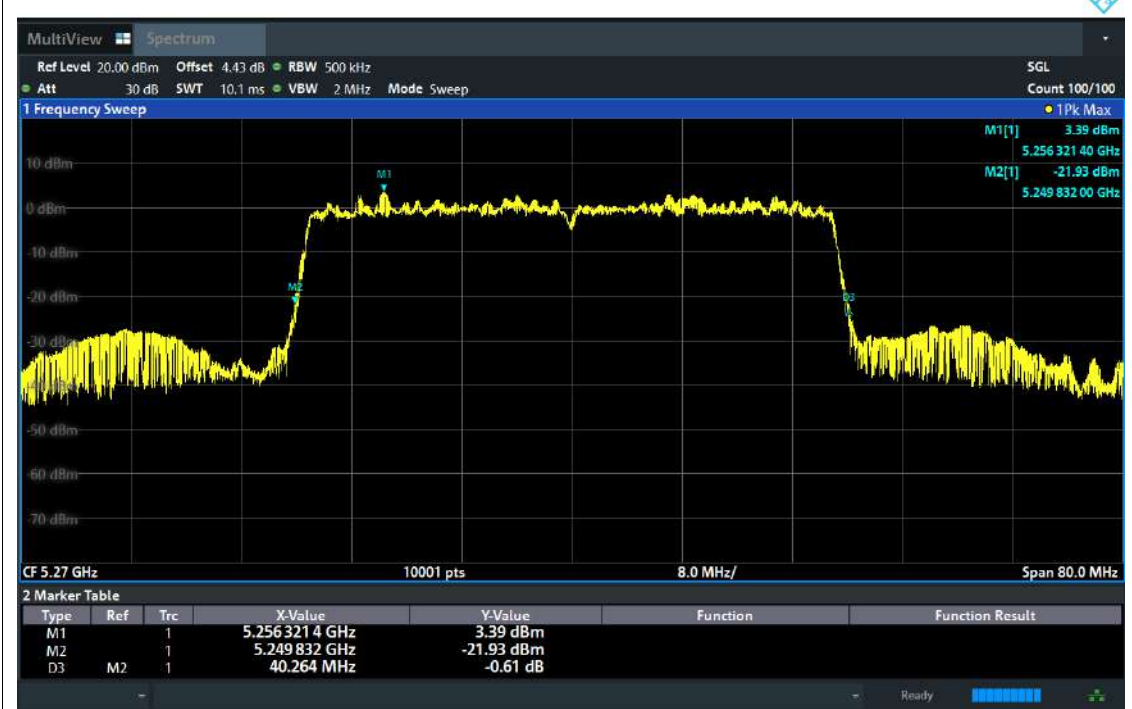




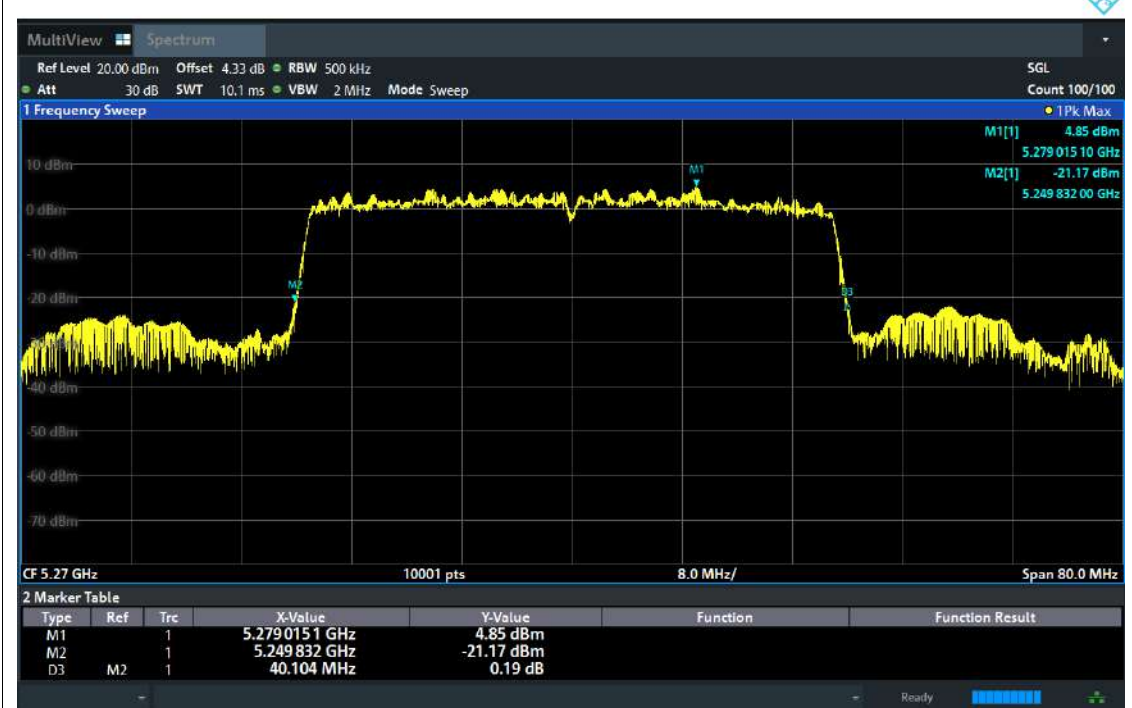




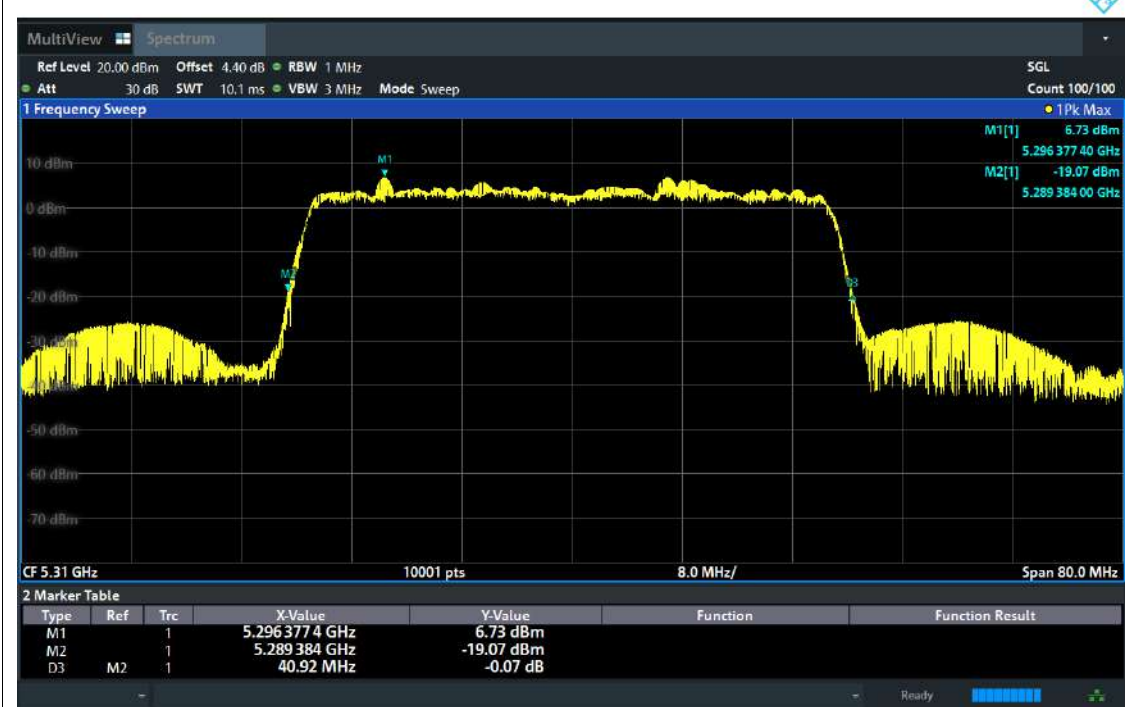
-26dB Bandwidth NVNT ax40 5270MHz Ant1



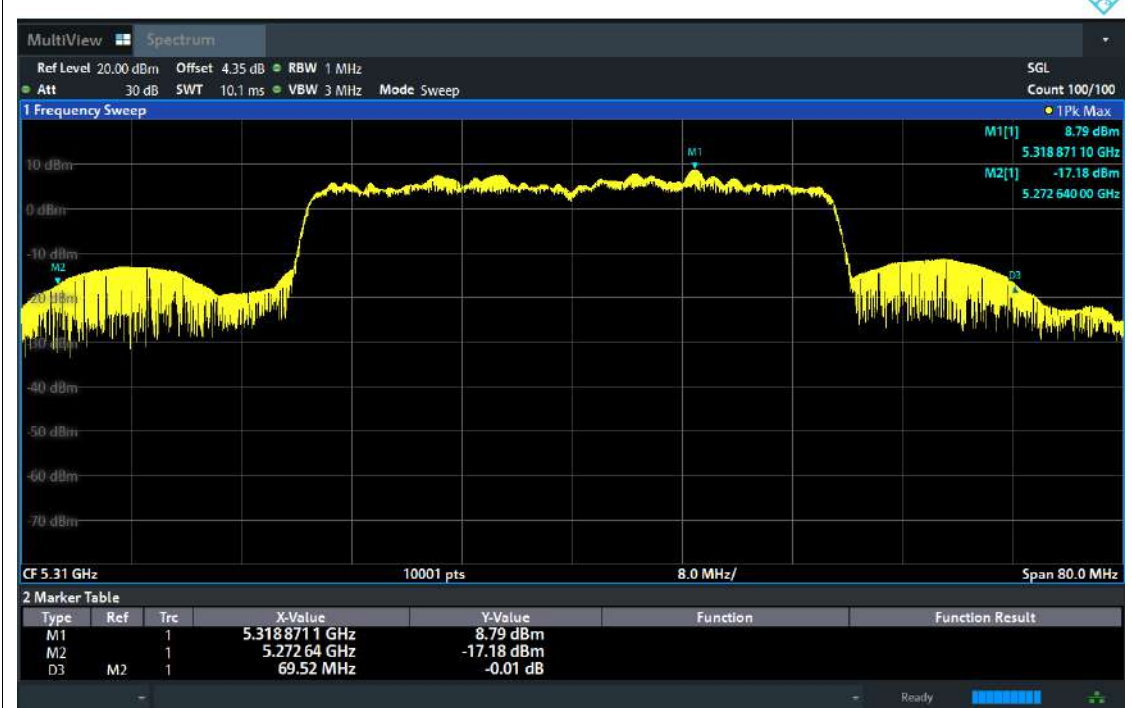
-26dB Bandwidth NVNT ax40 5270MHz Ant2

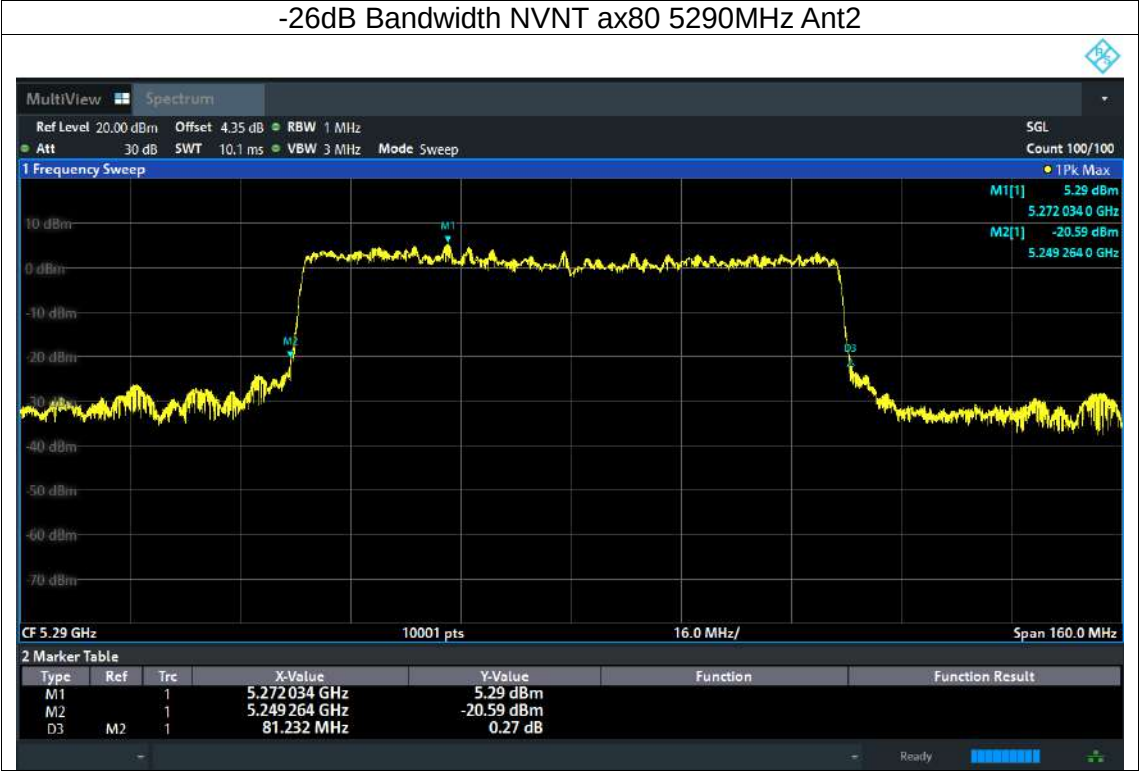


-26dB Bandwidth NVNT ax40 5310MHz Ant1

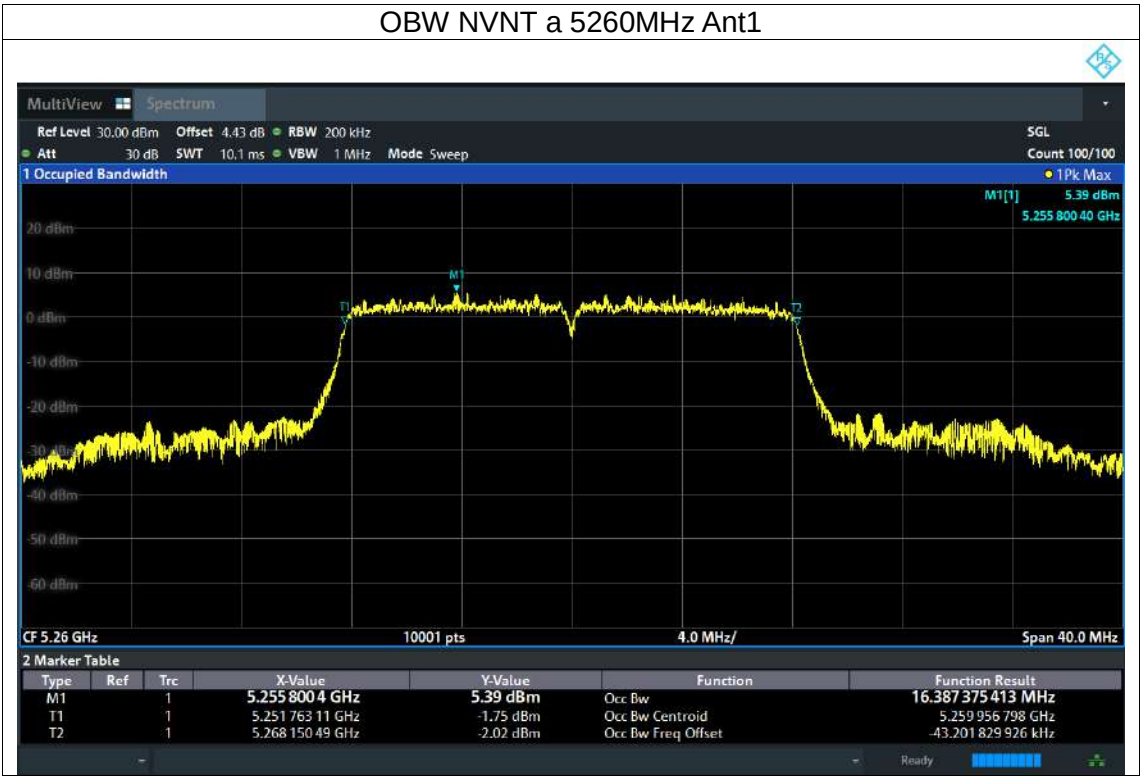


-26dB Bandwidth NVNT ax40 5310MHz Ant2

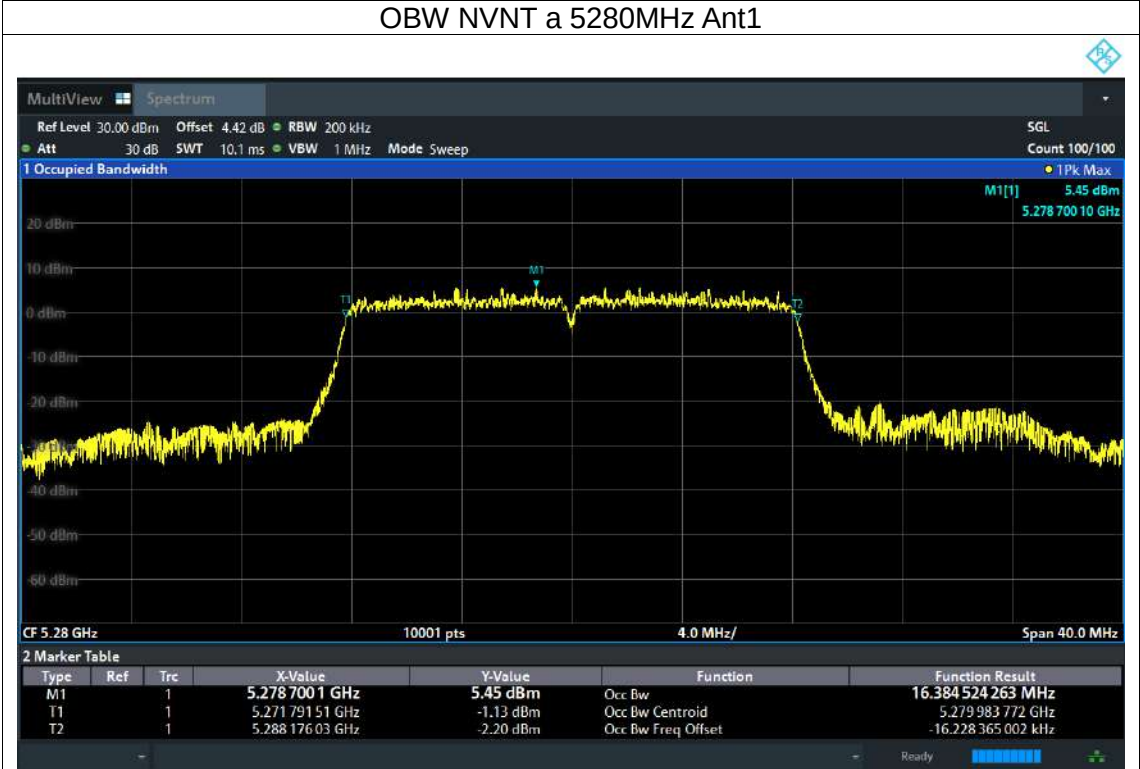


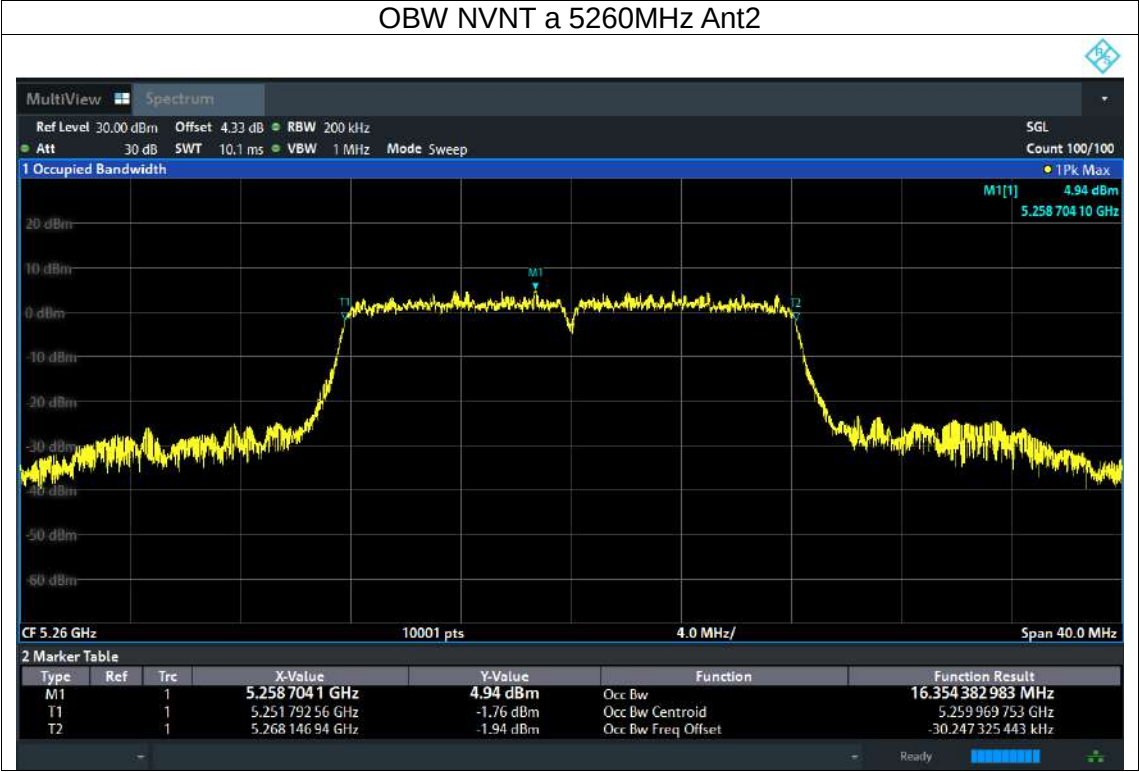
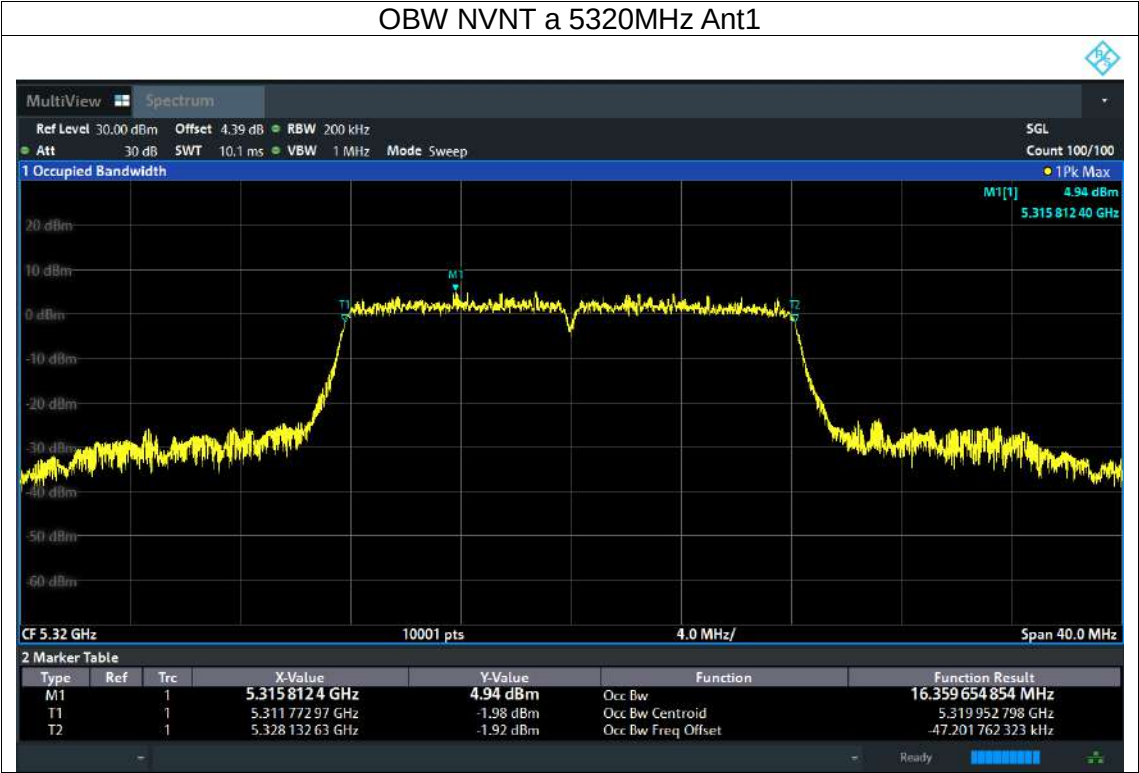


OBW NVNT a 5260MHz Ant1

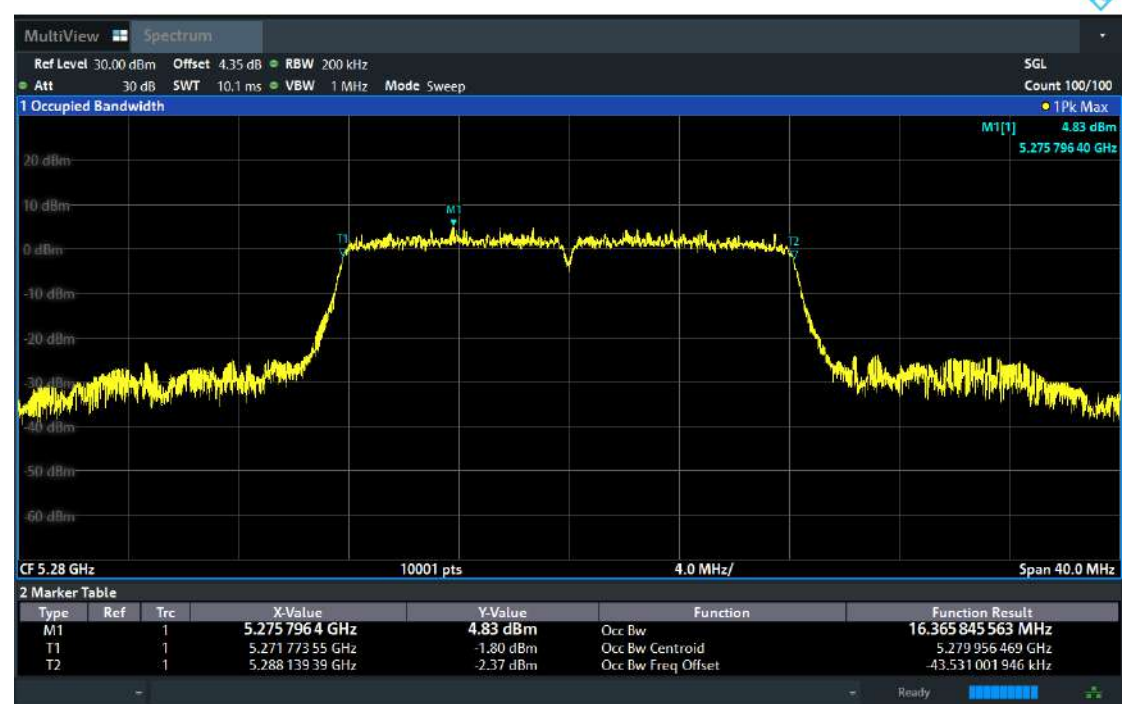


OBW NVNT a 5280MHz Ant1



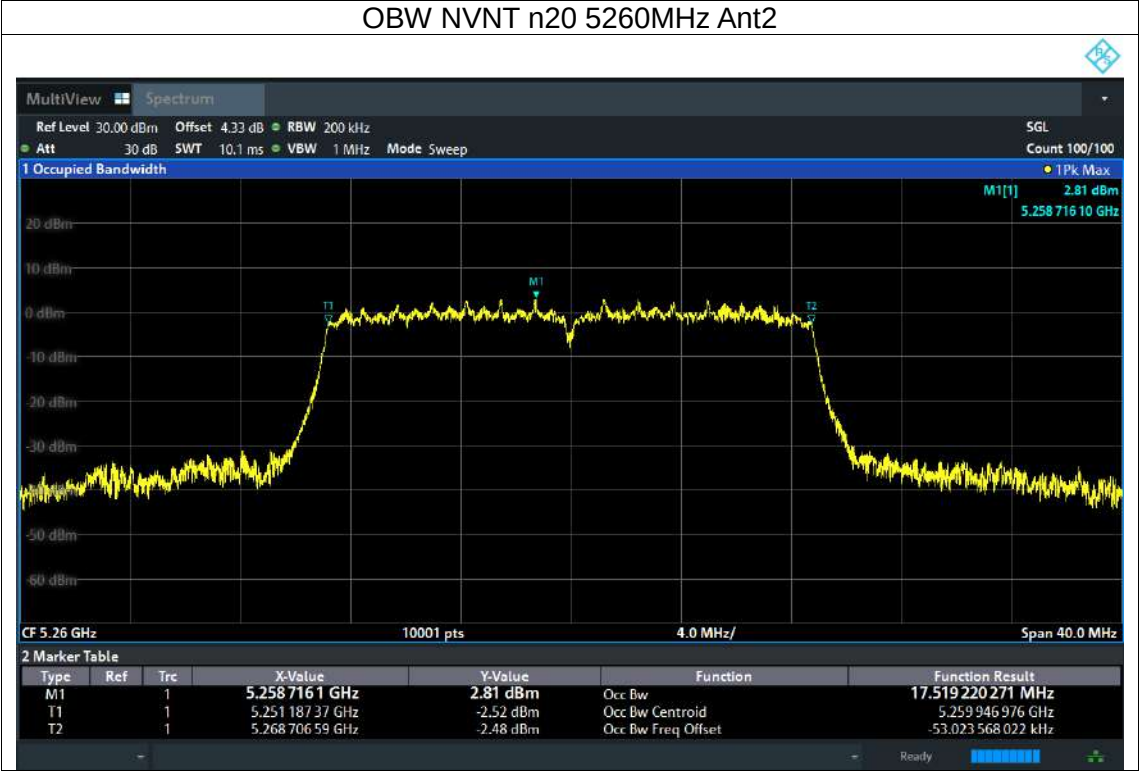
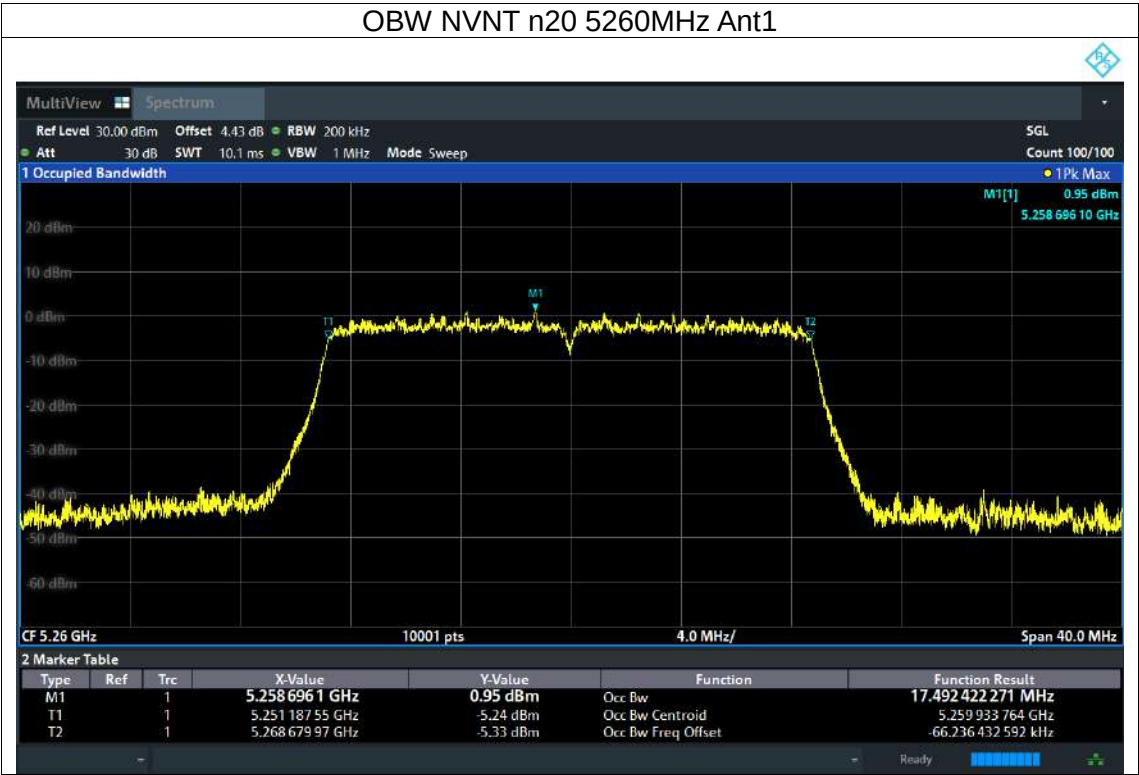


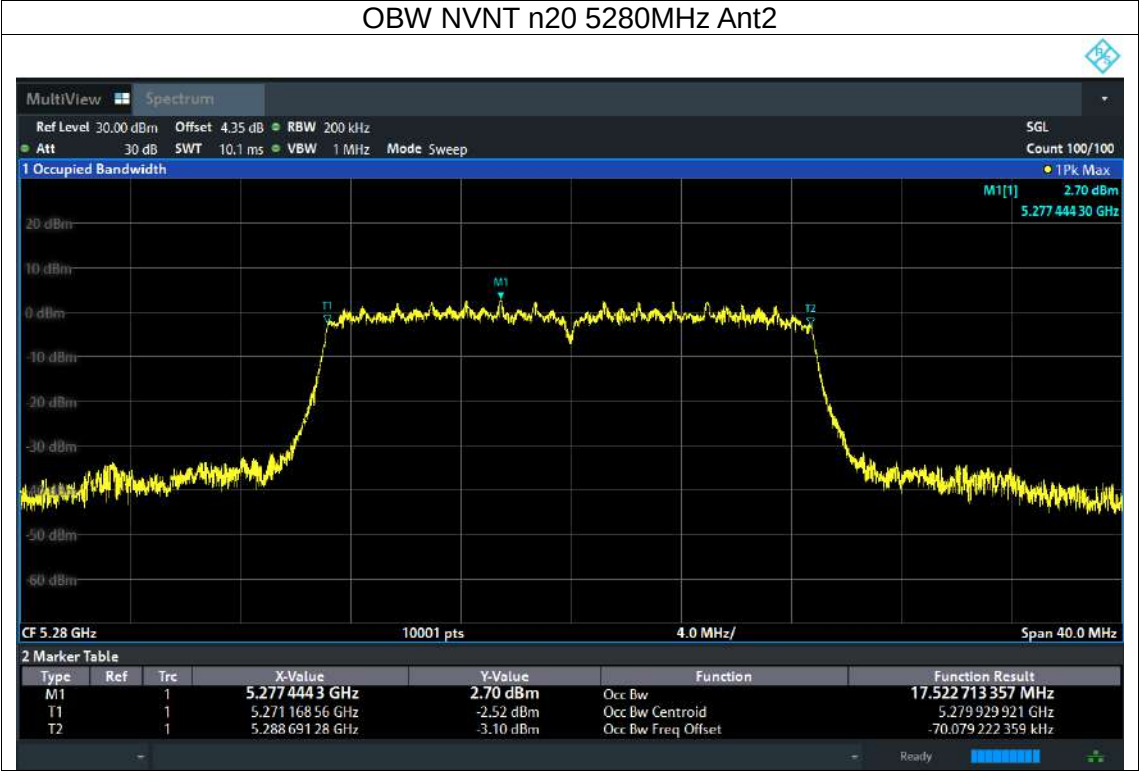
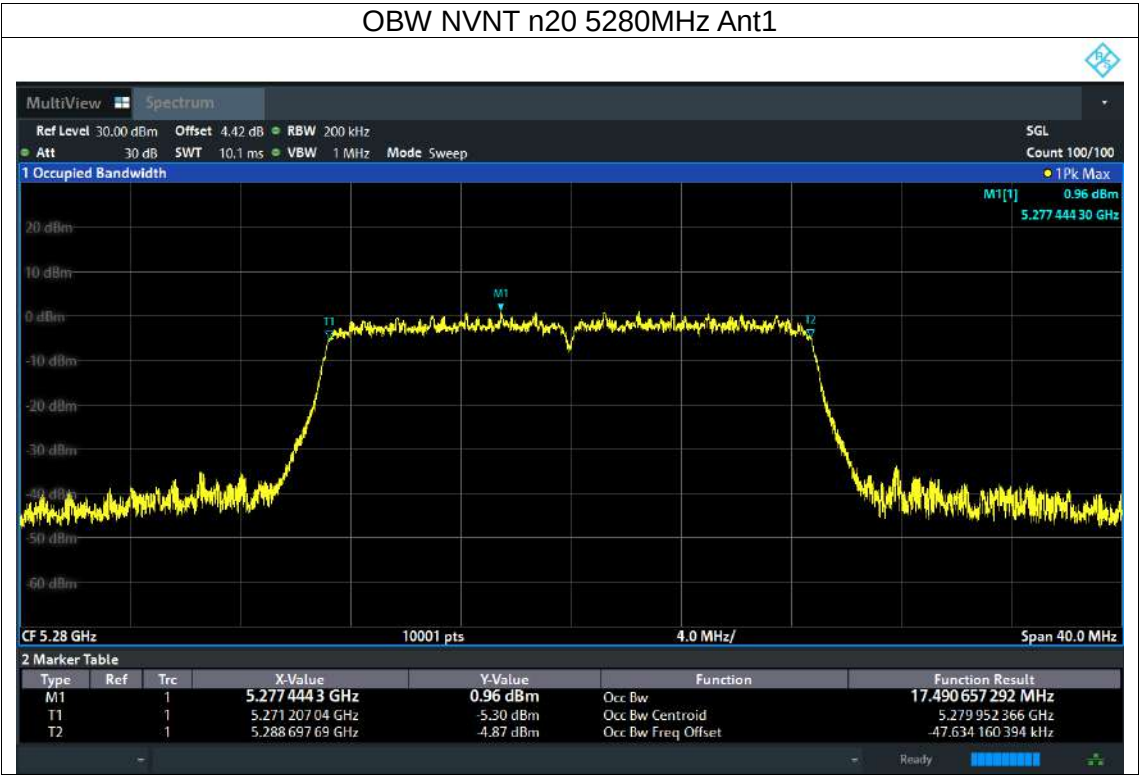
OBW NVNT a 5280MHz Ant2

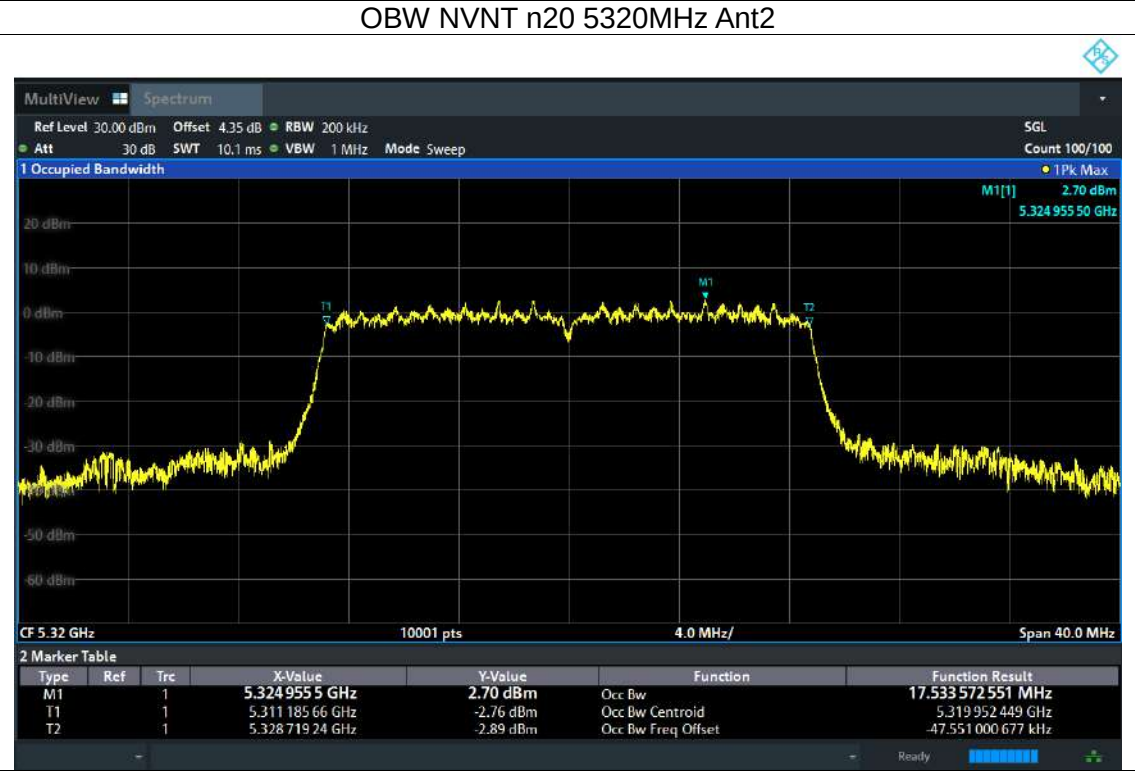
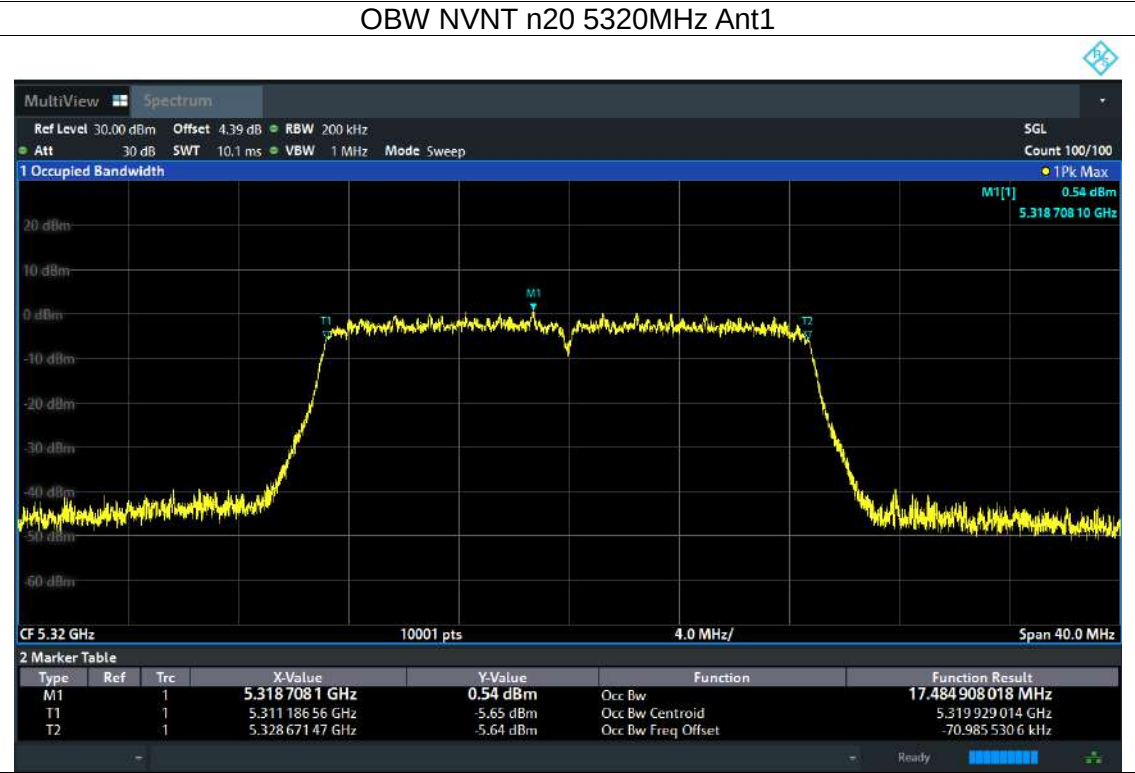


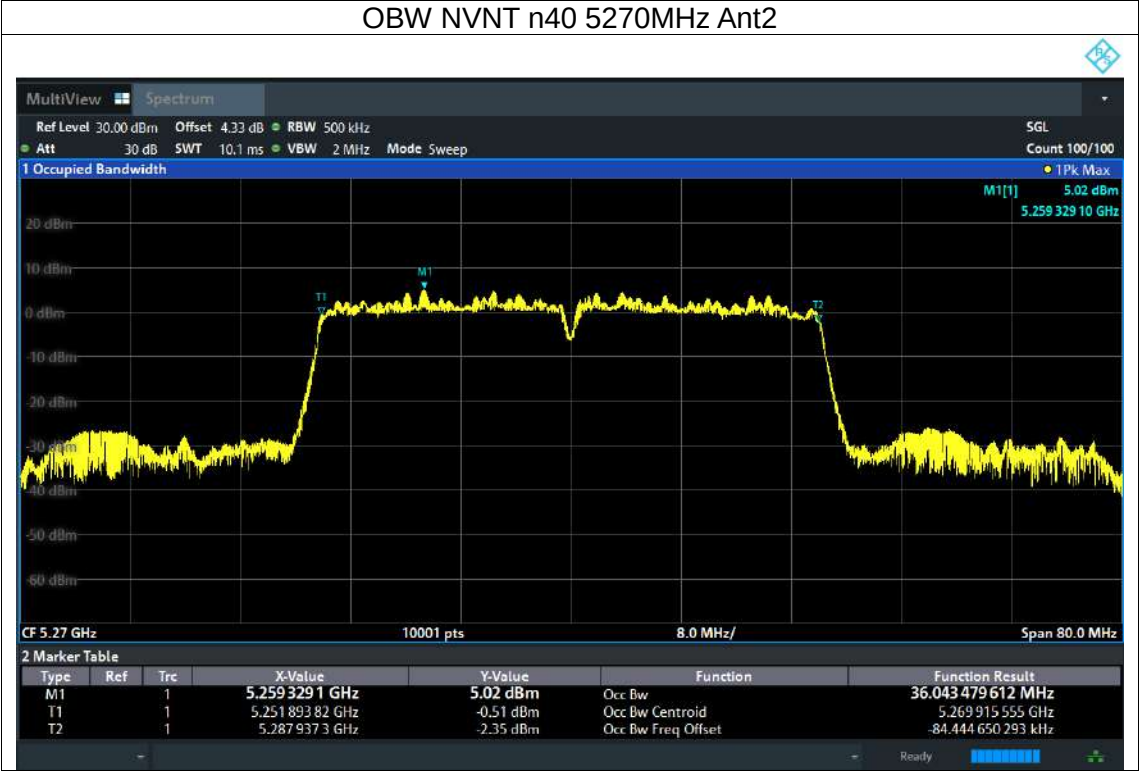
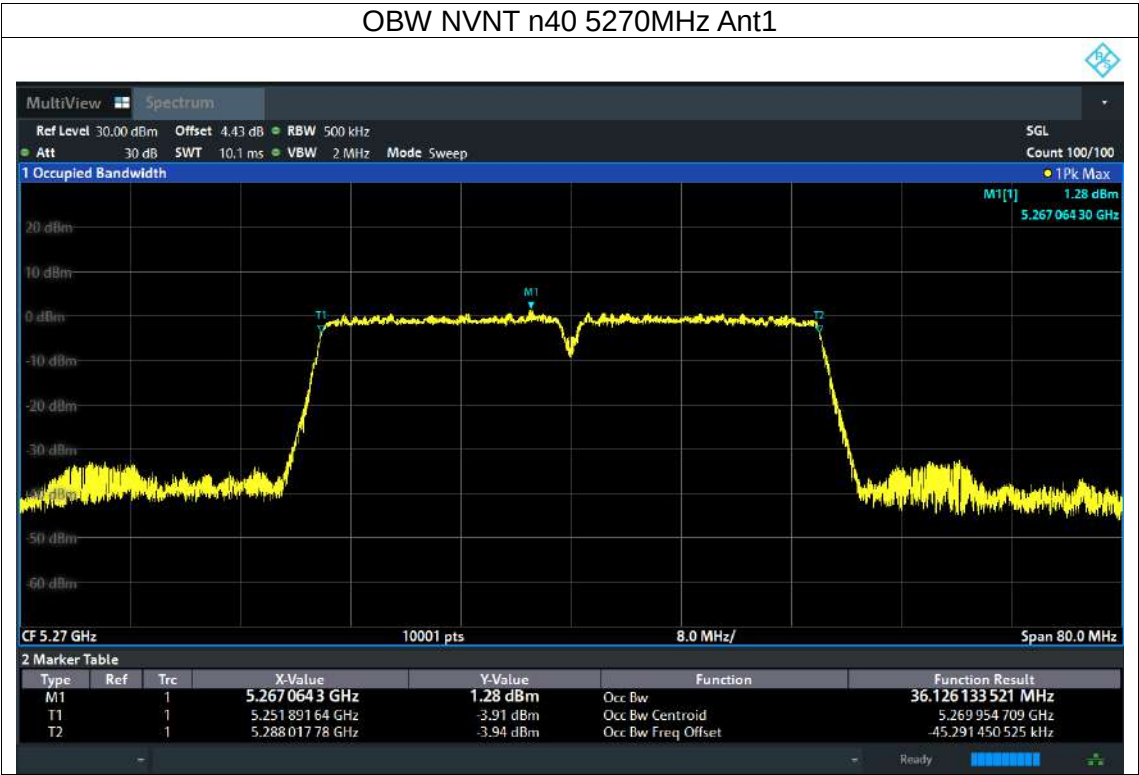
OBW NVNT a 5320MHz Ant2

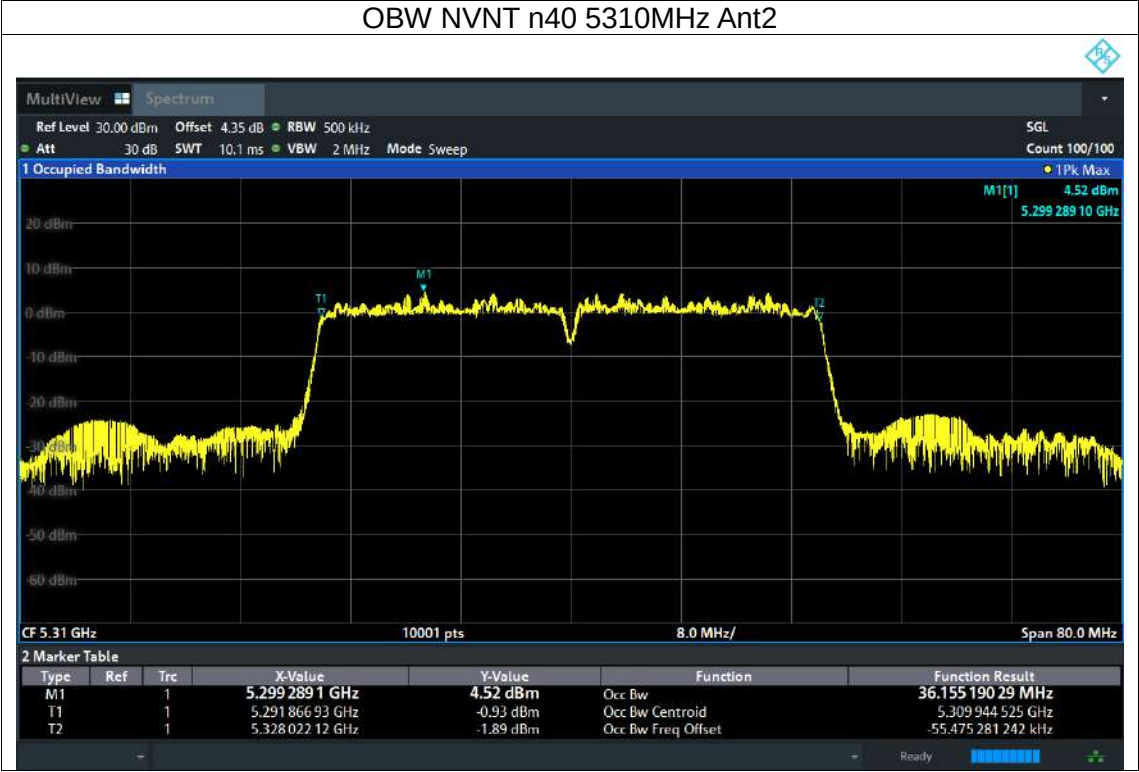
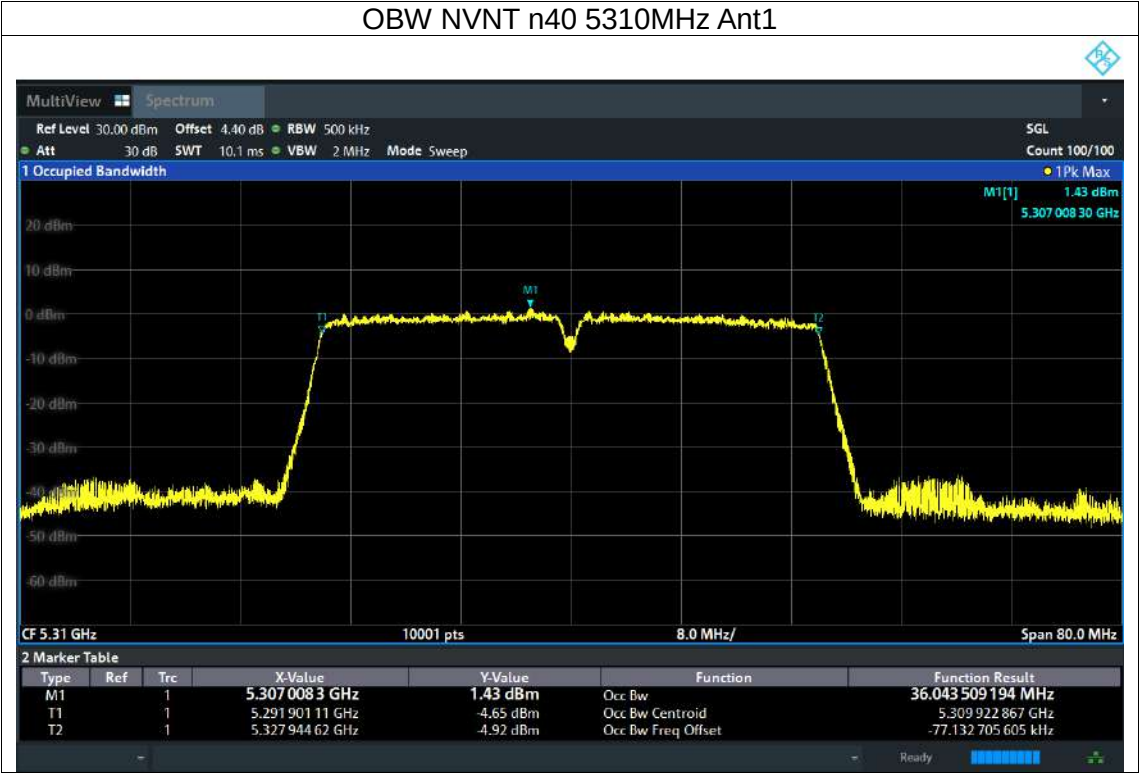




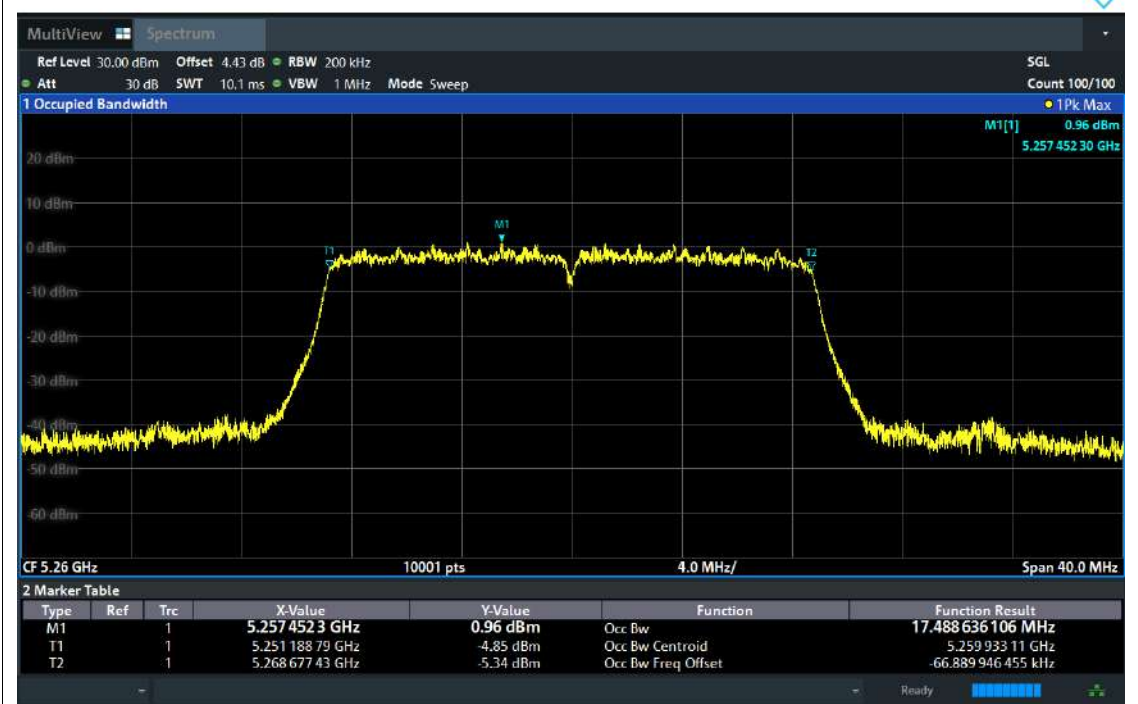




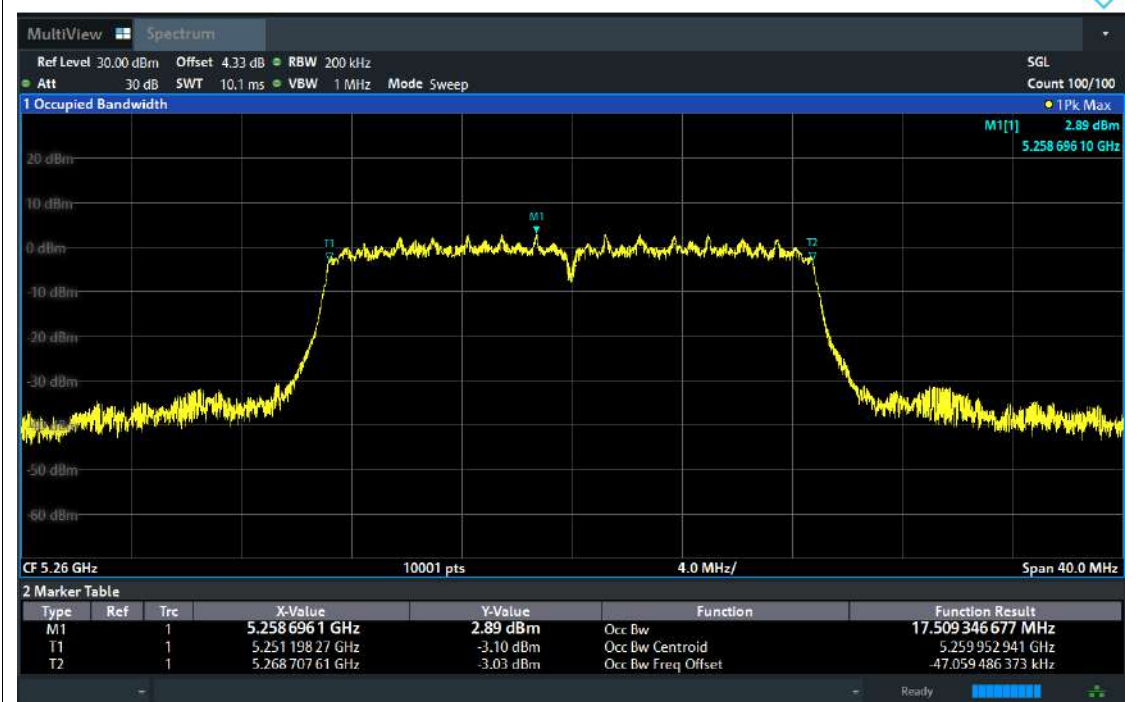


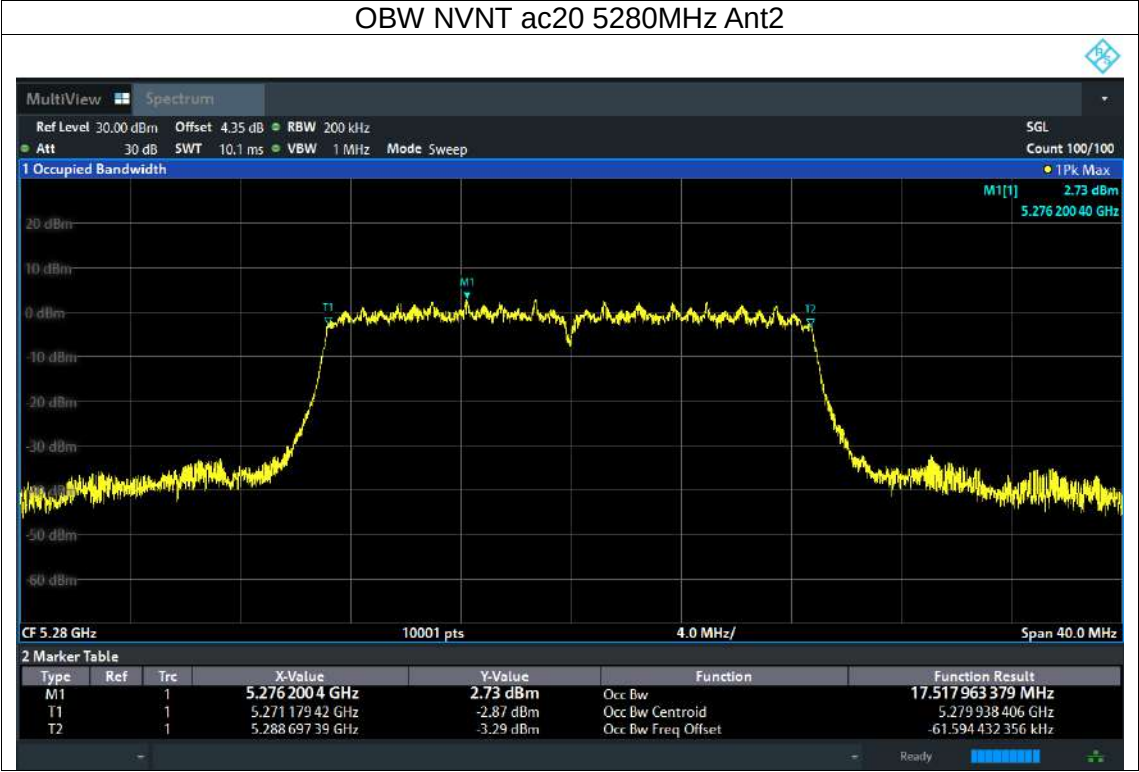
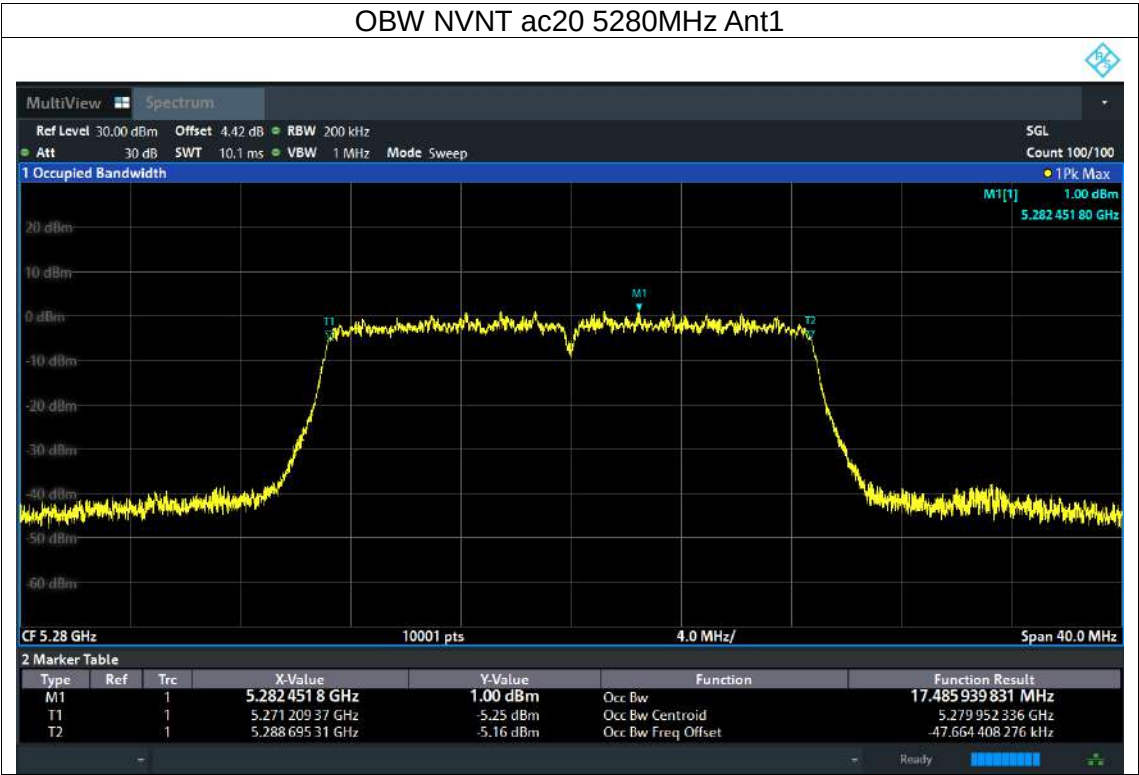


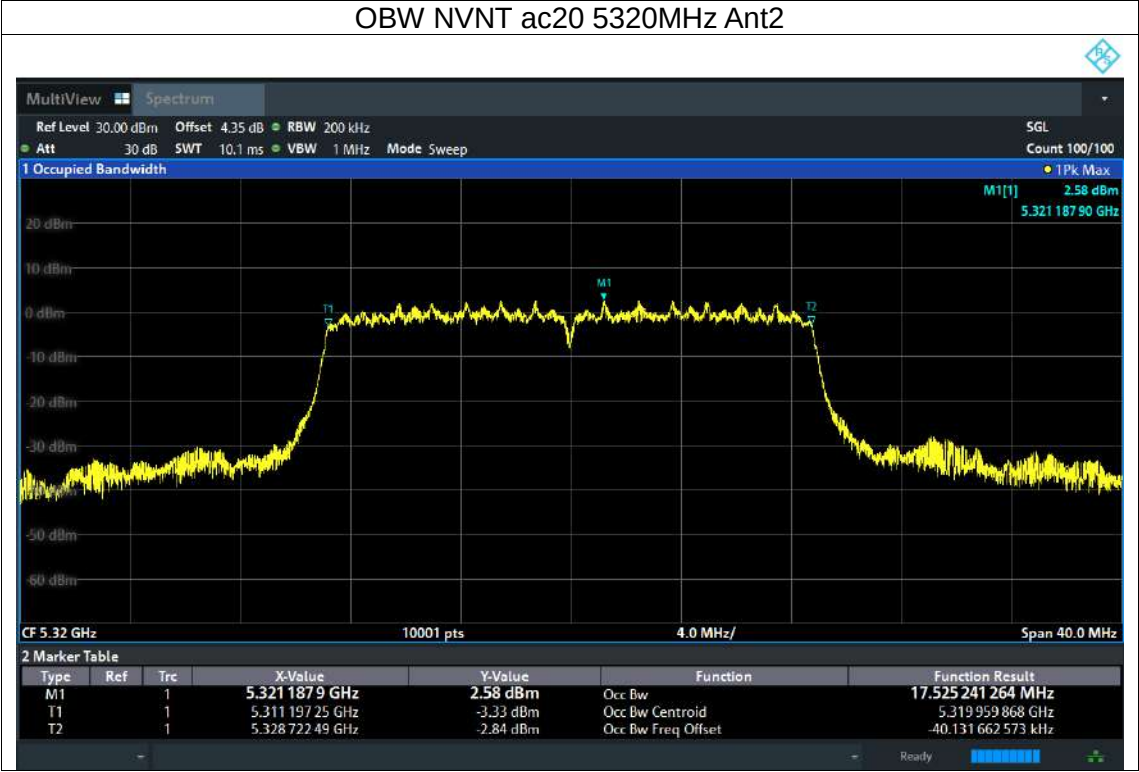
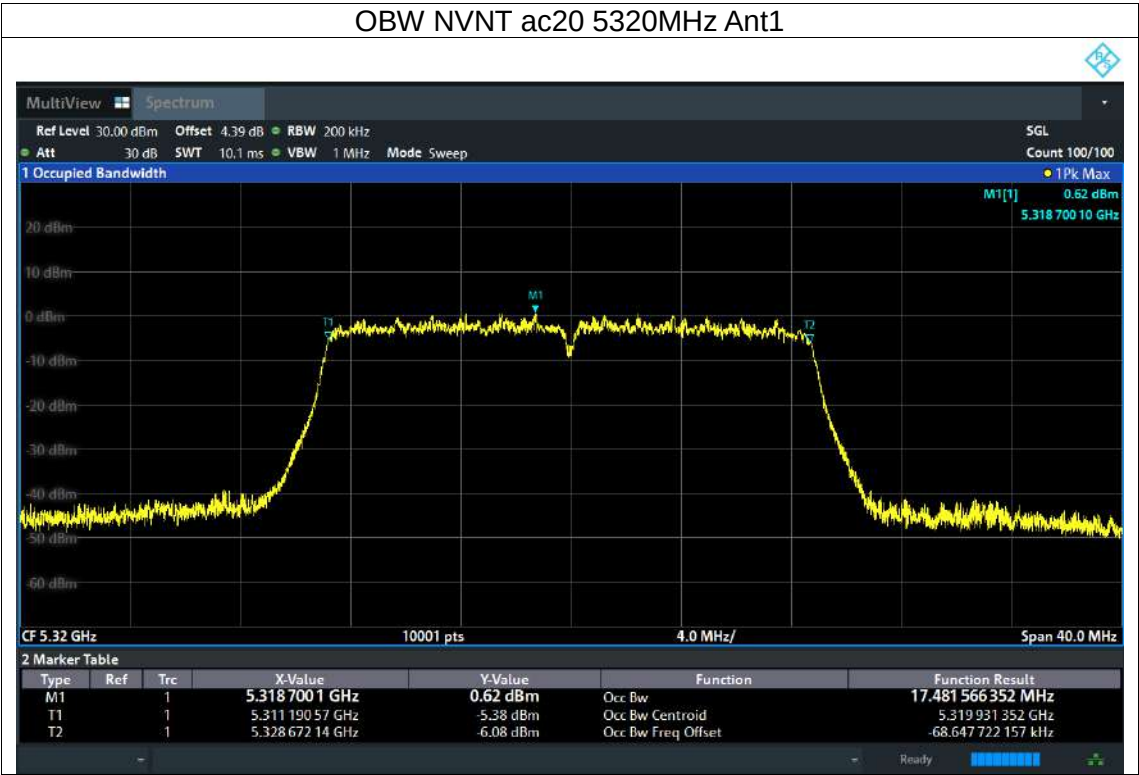
OBW NVNT ac20 5260MHz Ant1

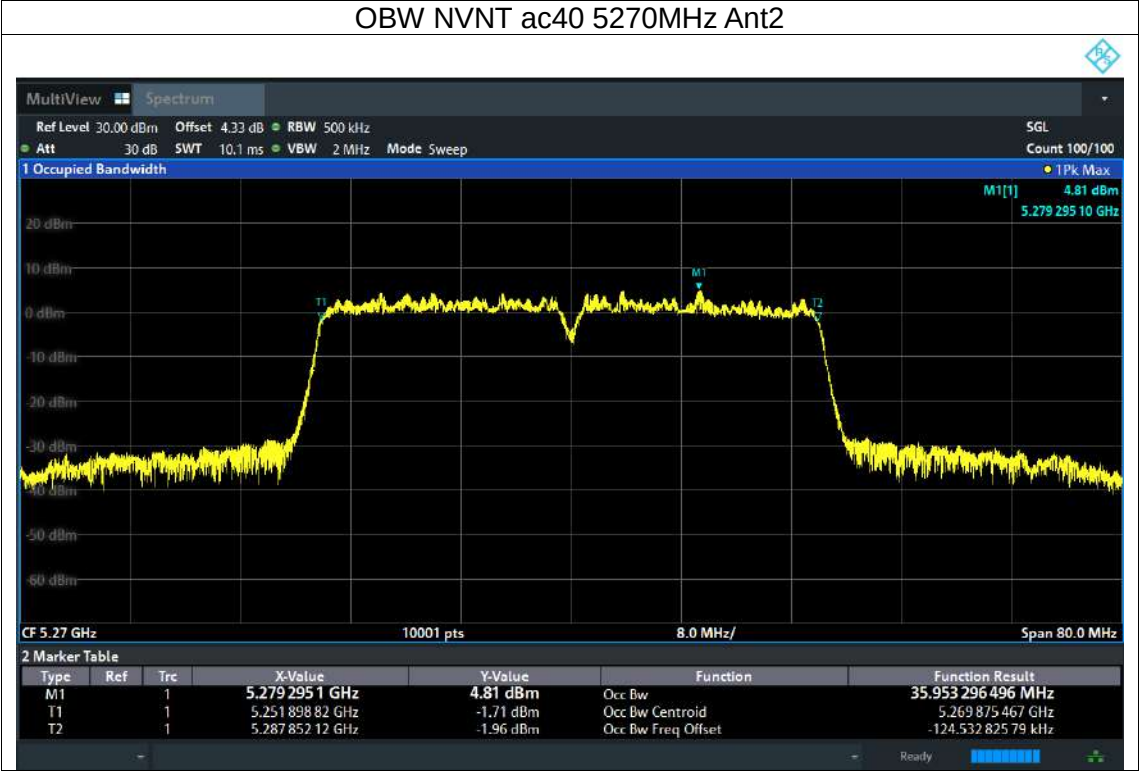
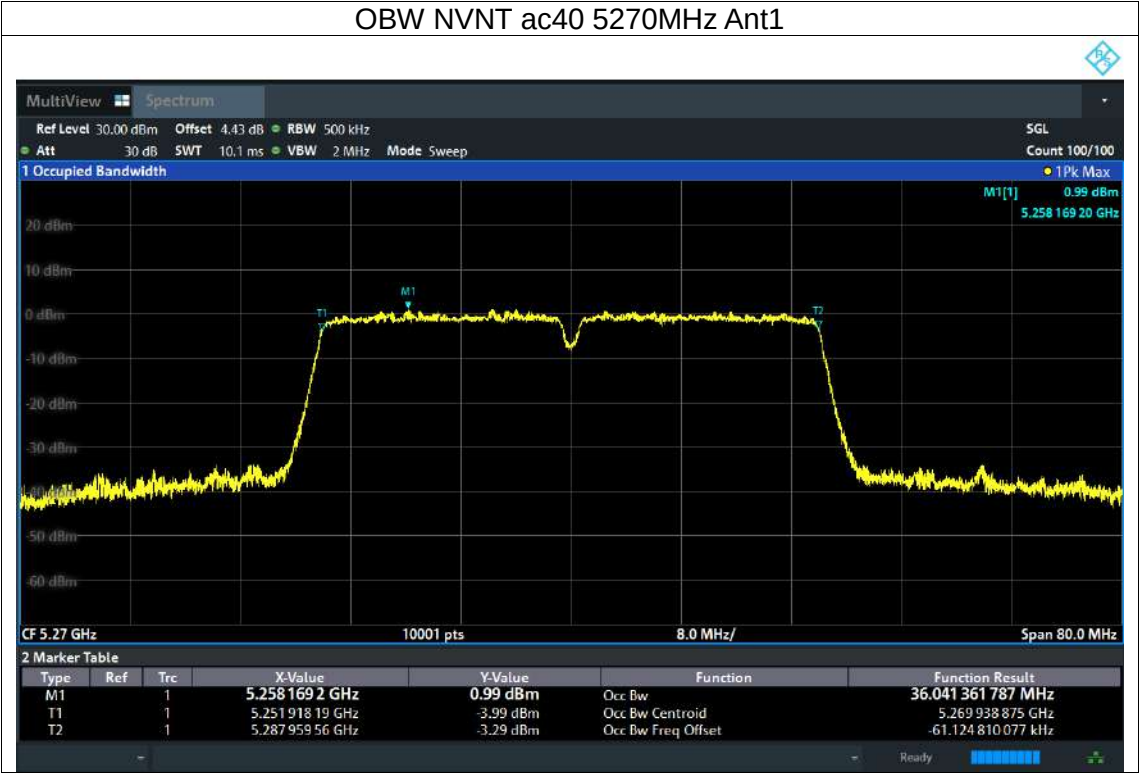


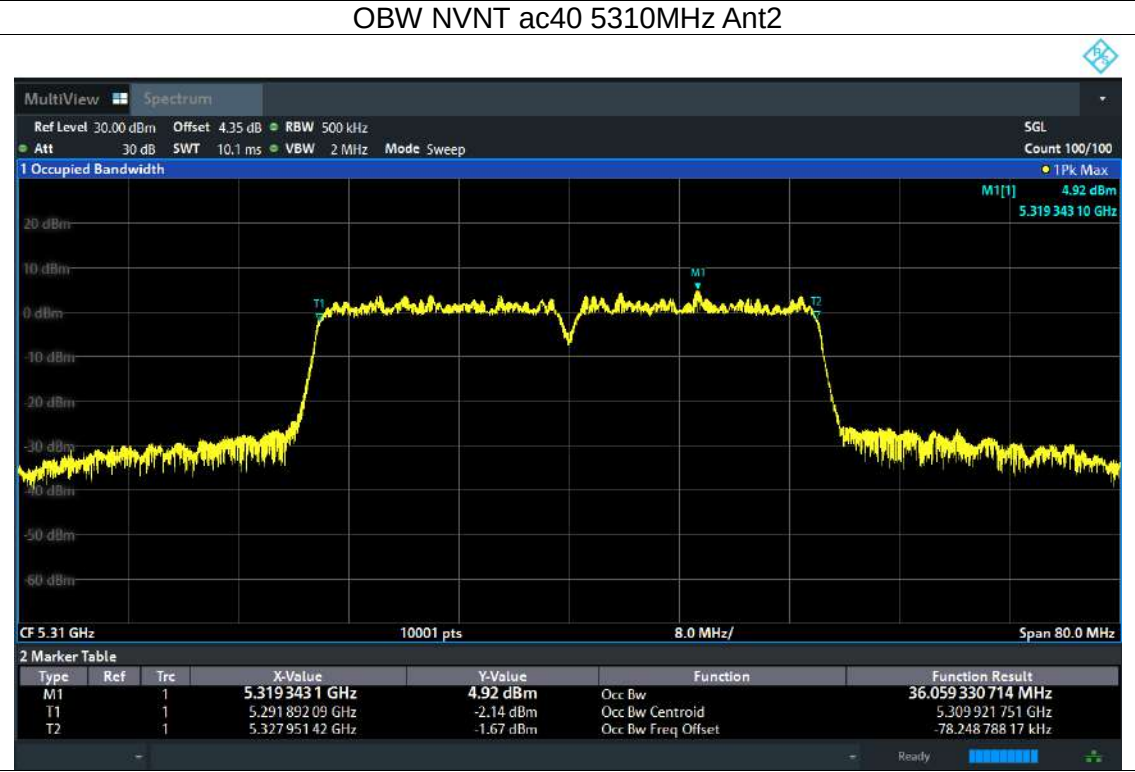
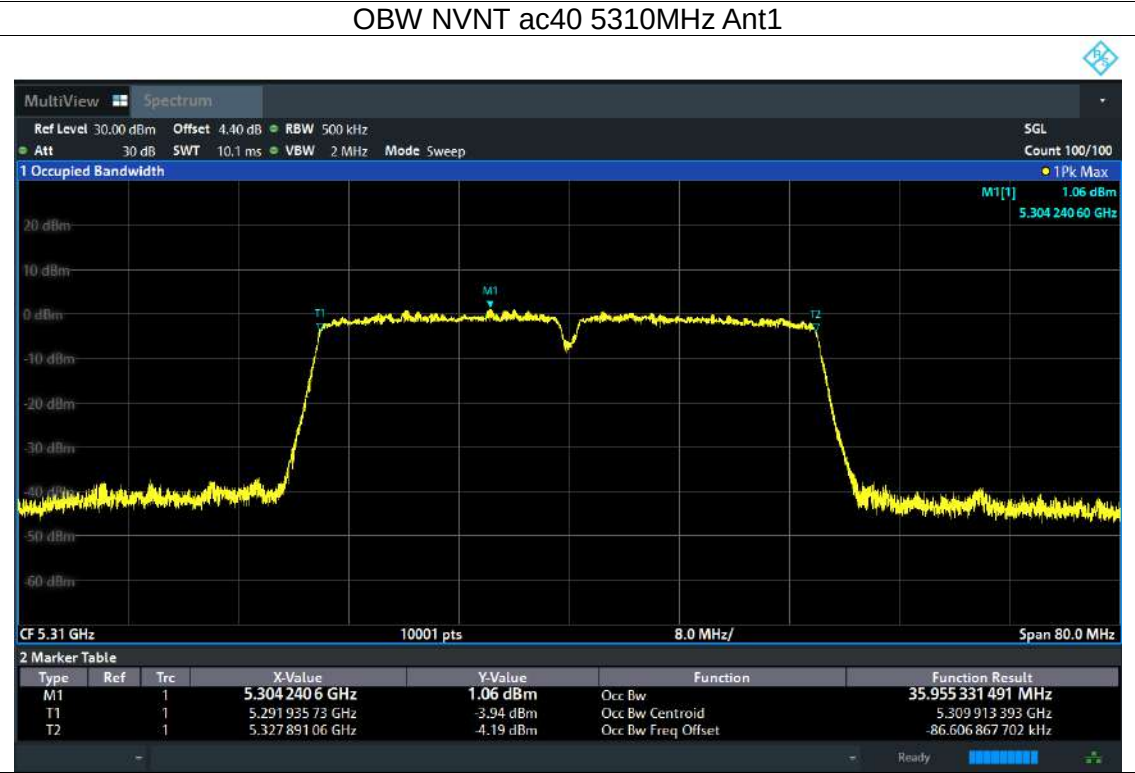
OBW NVNT ac20 5260MHz Ant2



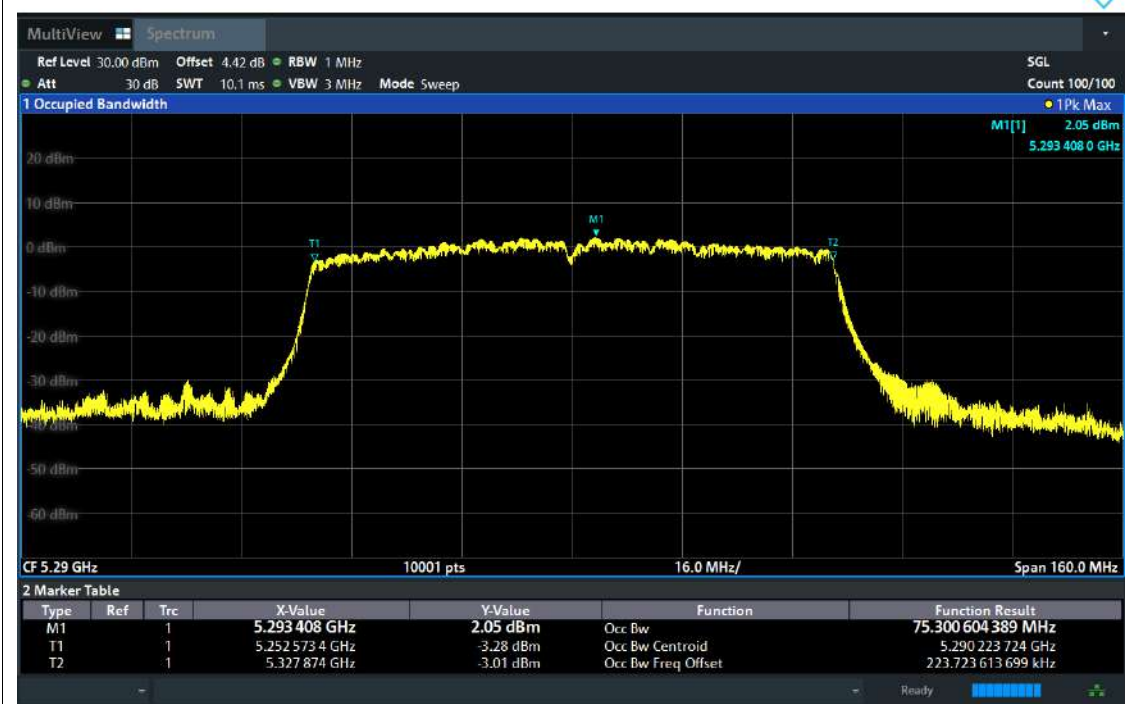








OBW NVNT ac80 5290MHz Ant1



OBW NVNT ac80 5290MHz Ant2

