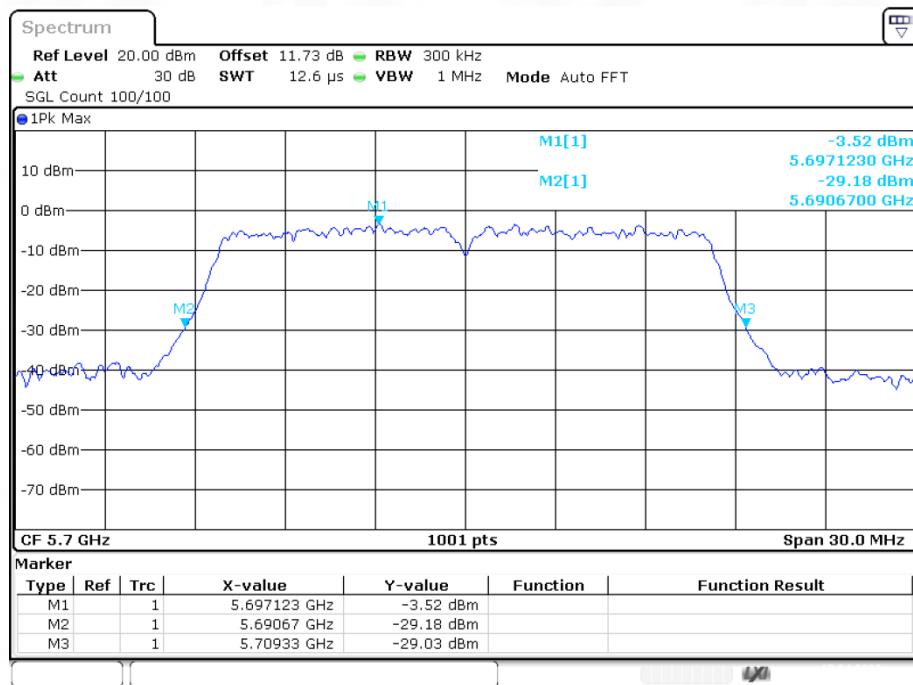
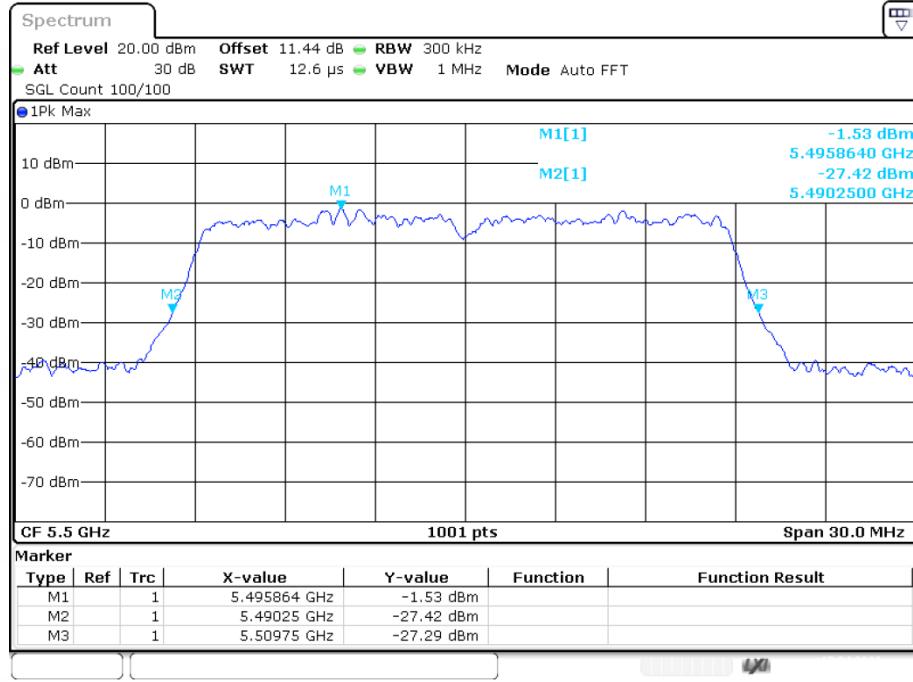
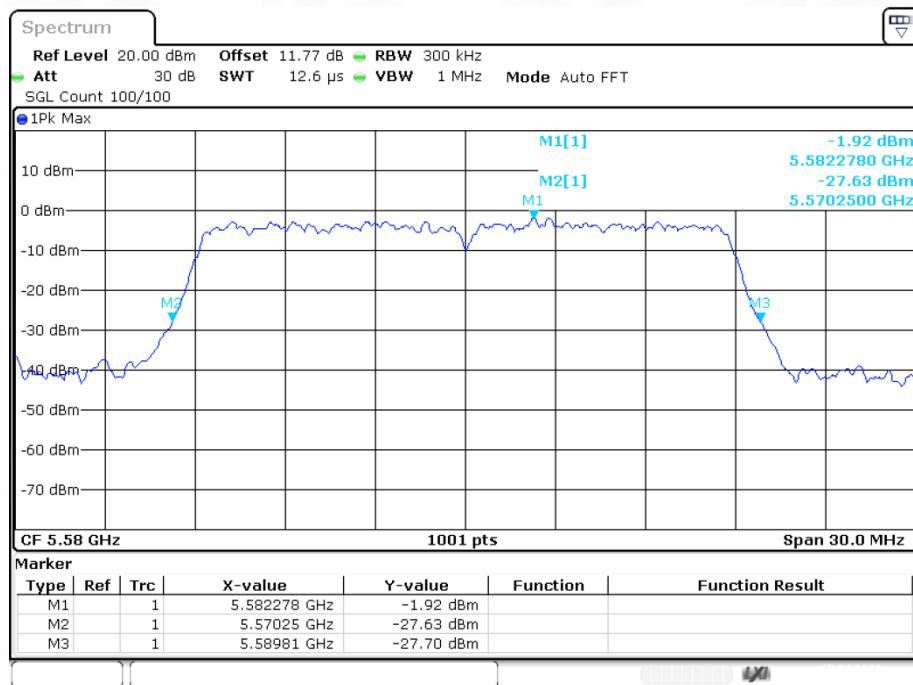
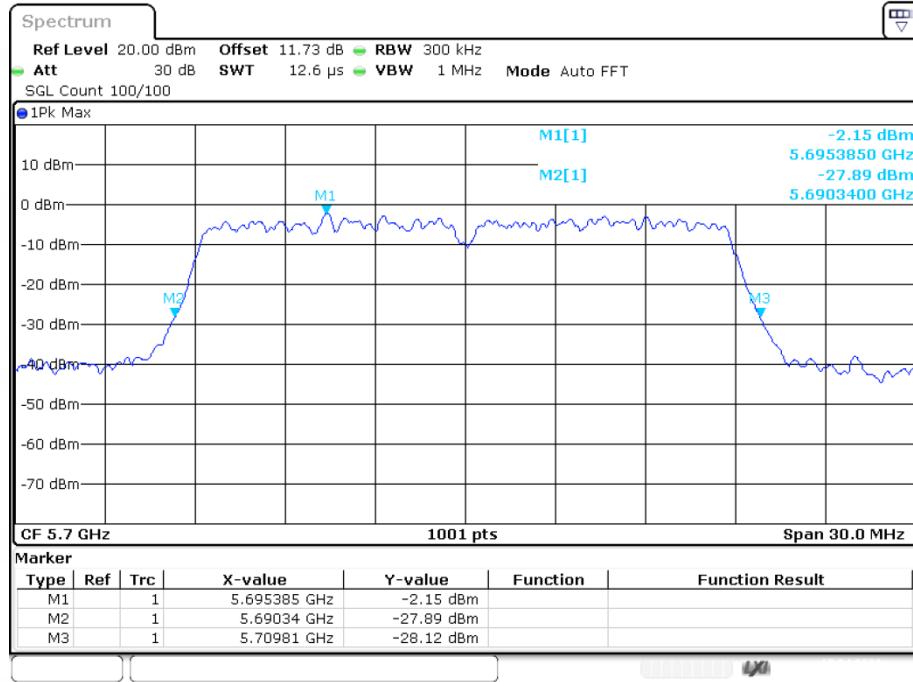
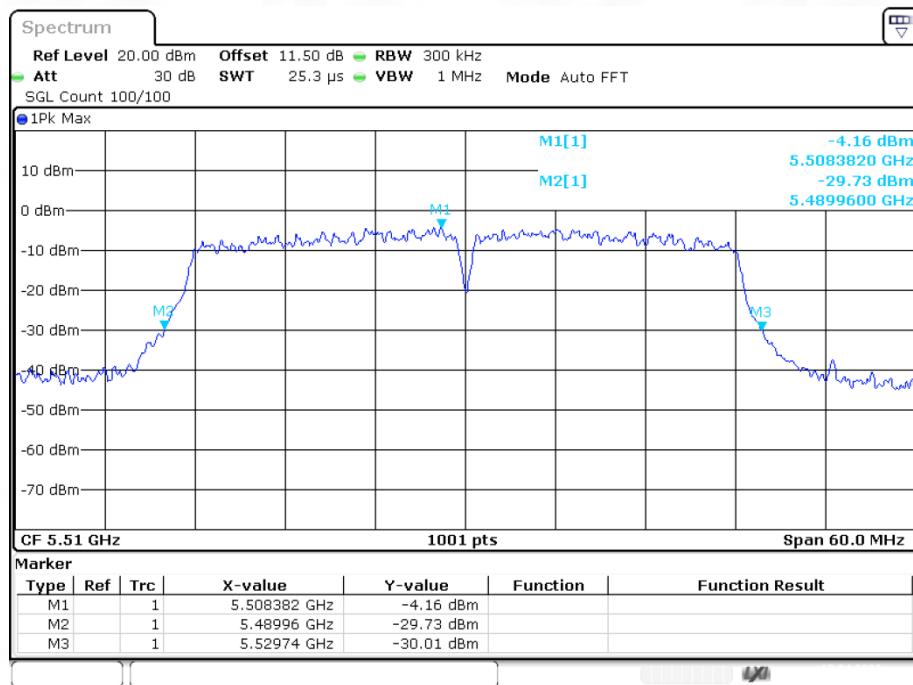
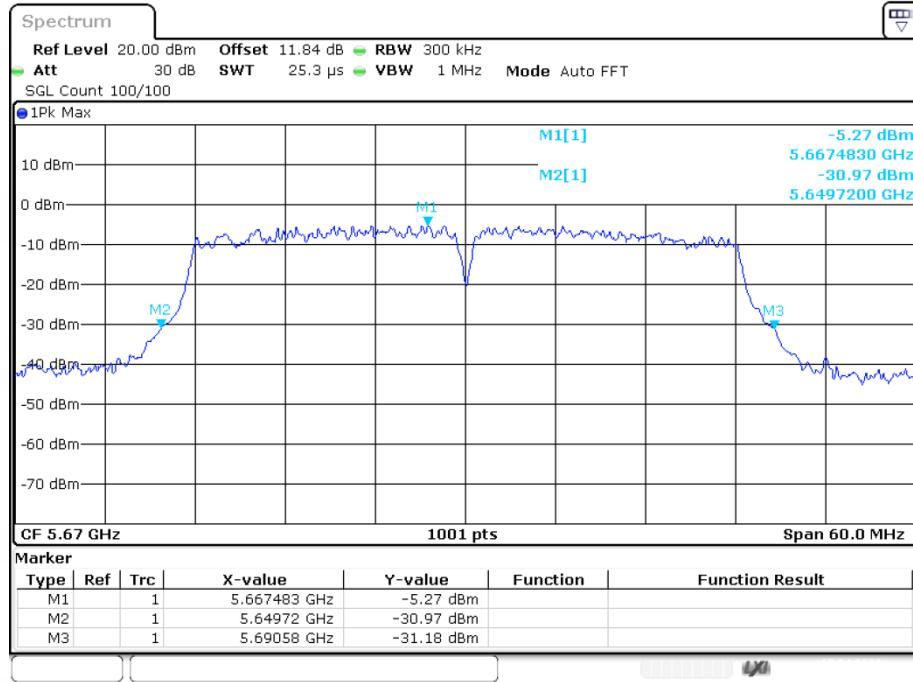
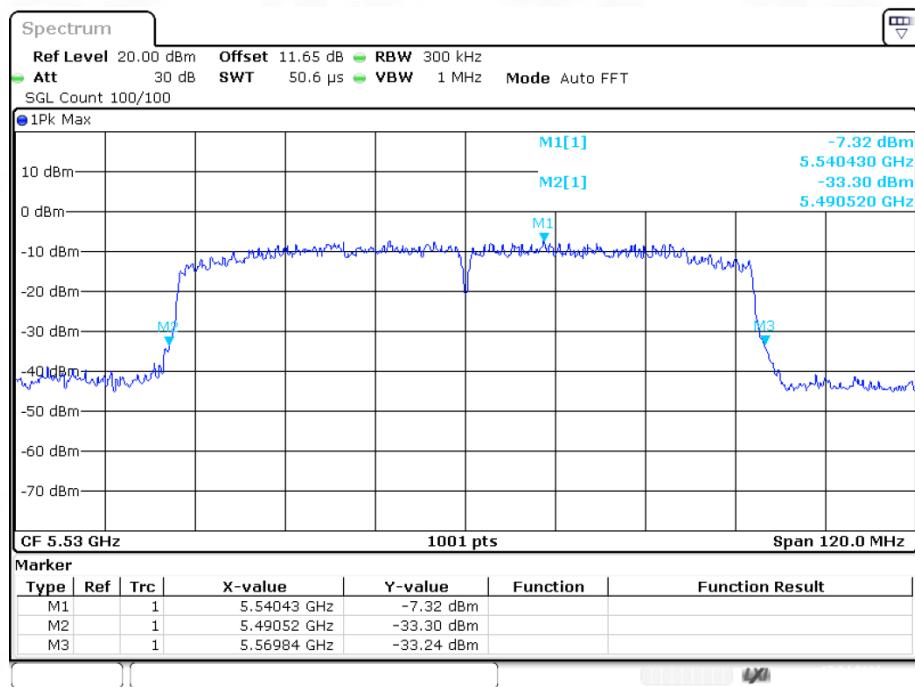
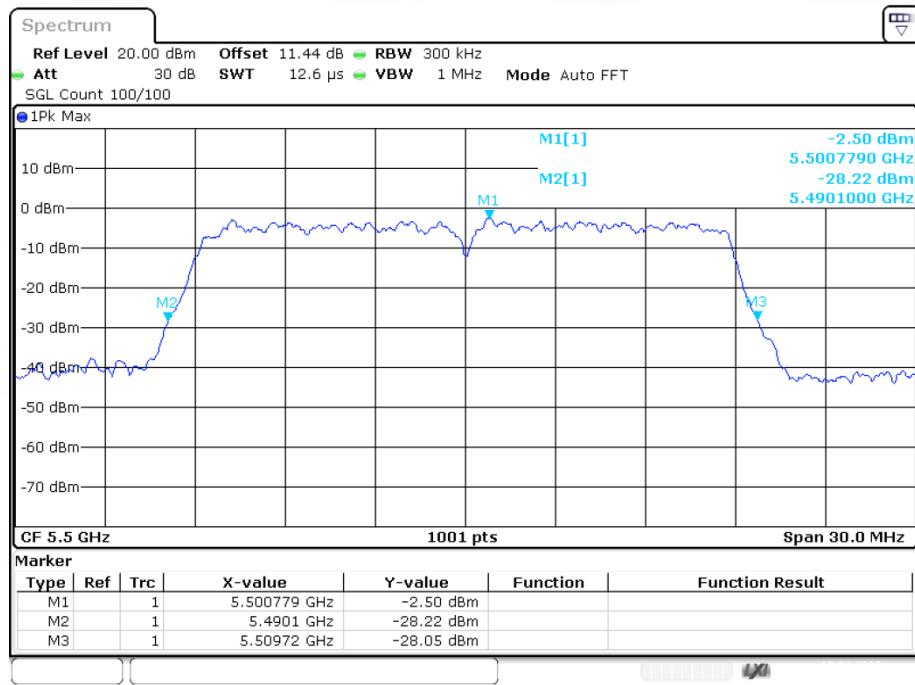
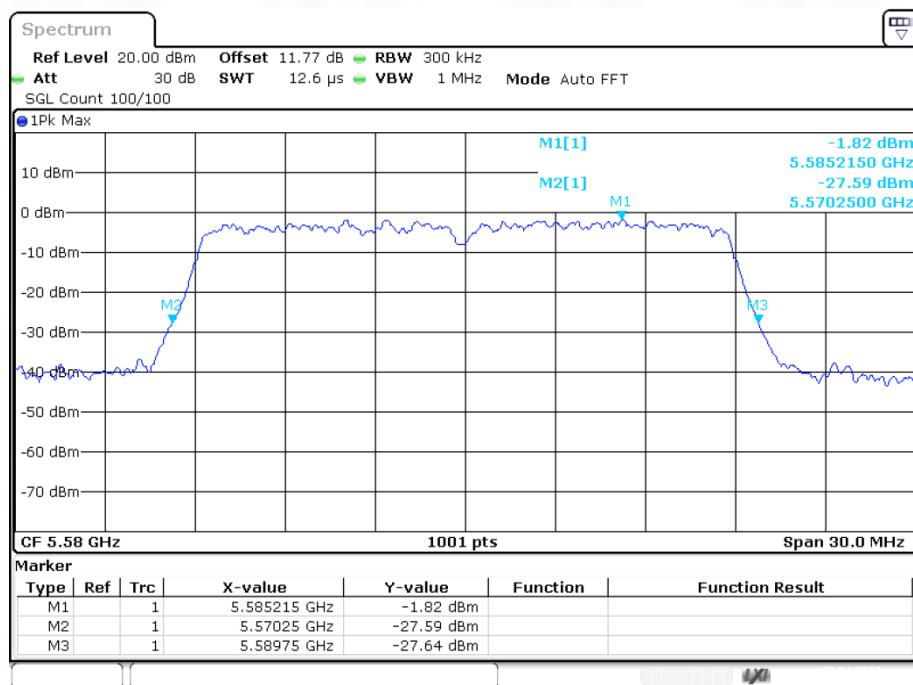
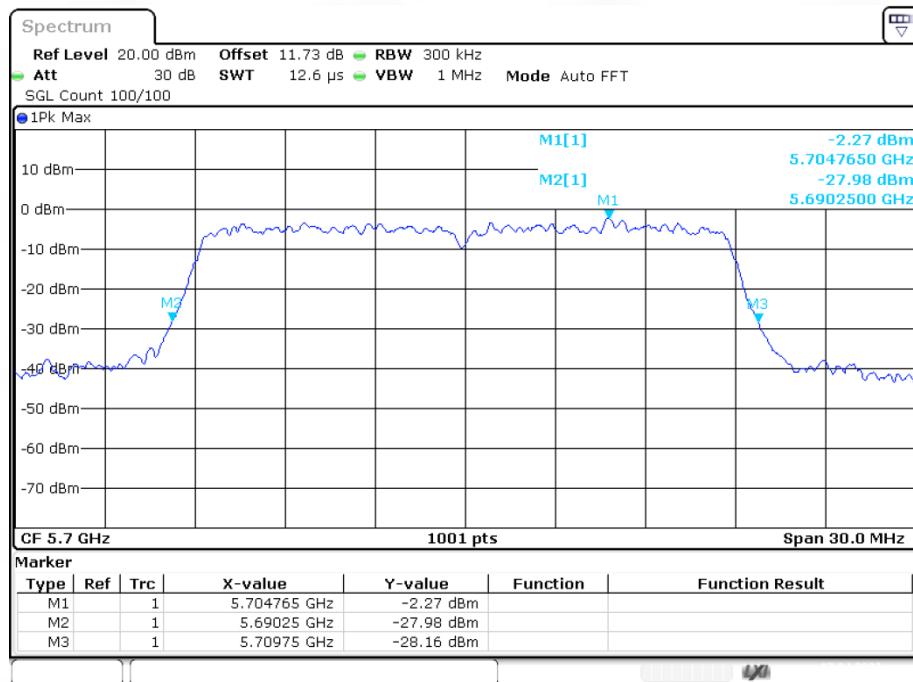


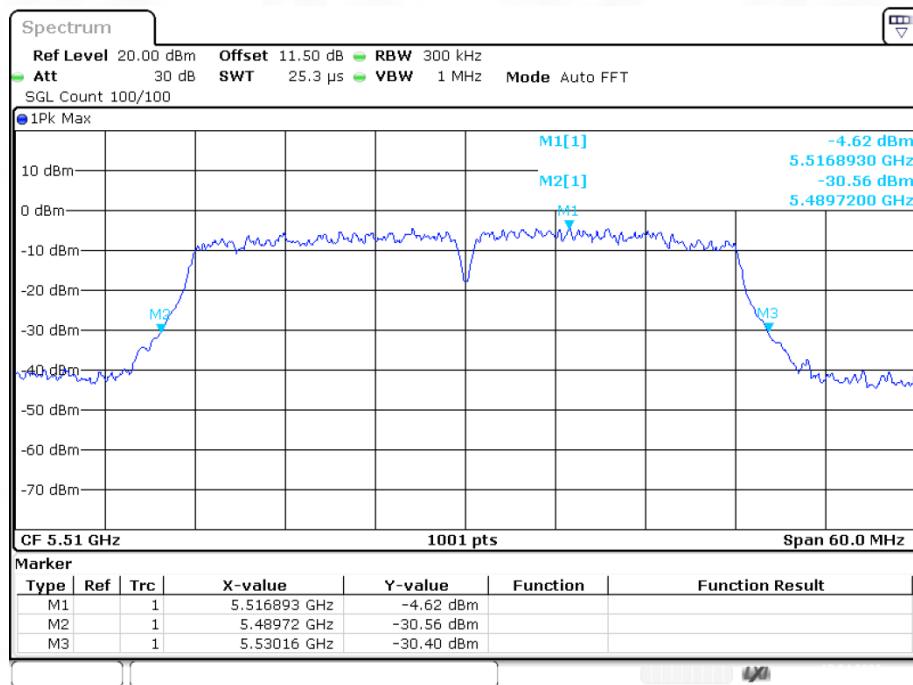
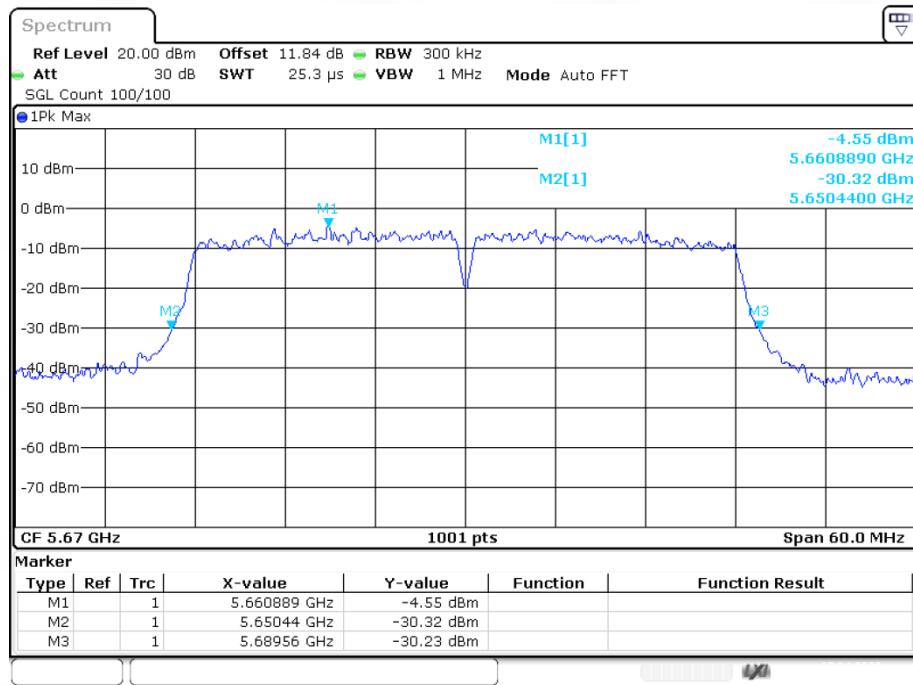
-26dB Bandwidth NVNT a 5700MHz Ant1

-26dB Bandwidth NVNT ac20 5500MHz Ant1


-26dB Bandwidth NVNT ac20 5580MHz Ant1

-26dB Bandwidth NVNT ac20 5700MHz Ant1


-26dB Bandwidth NVNT ac40 5510MHz Ant1

-26dB Bandwidth NVNT ac40 5670MHz Ant1


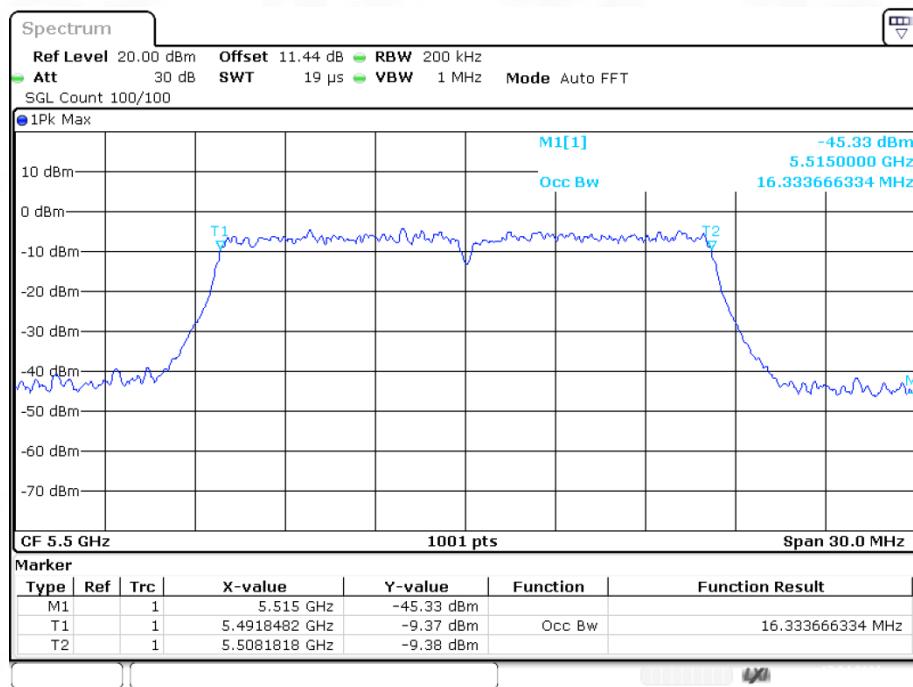
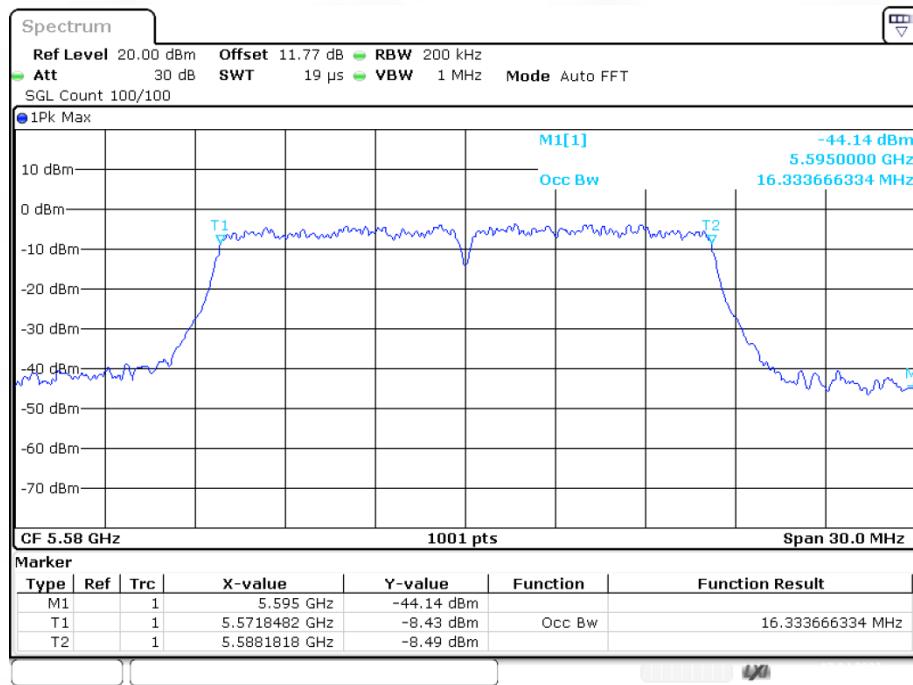
-26dB Bandwidth NVNT ac80 5530MHz Ant1

-26dB Bandwidth NVNT n20 5500MHz Ant1


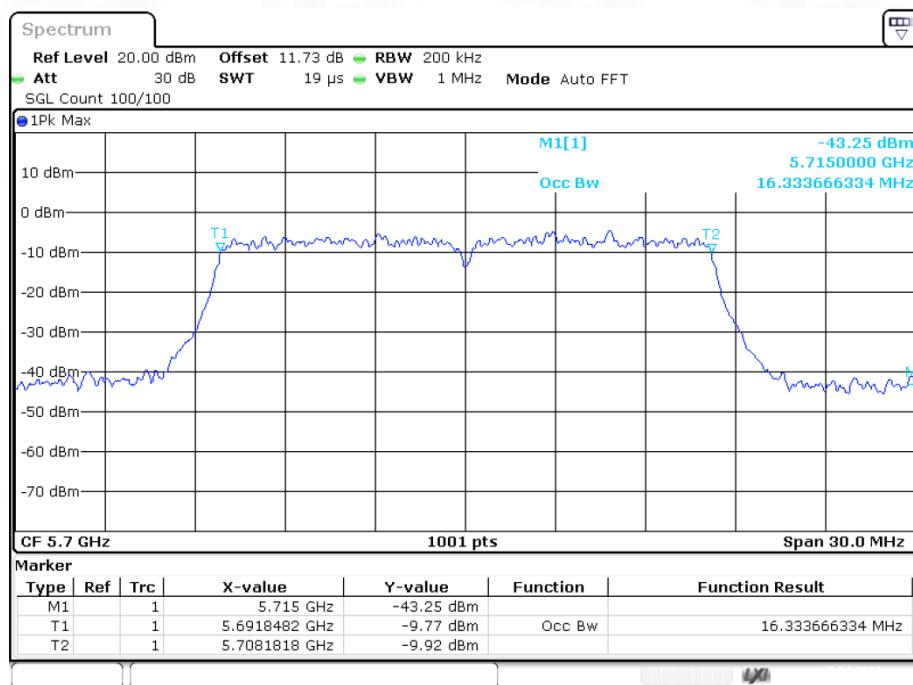
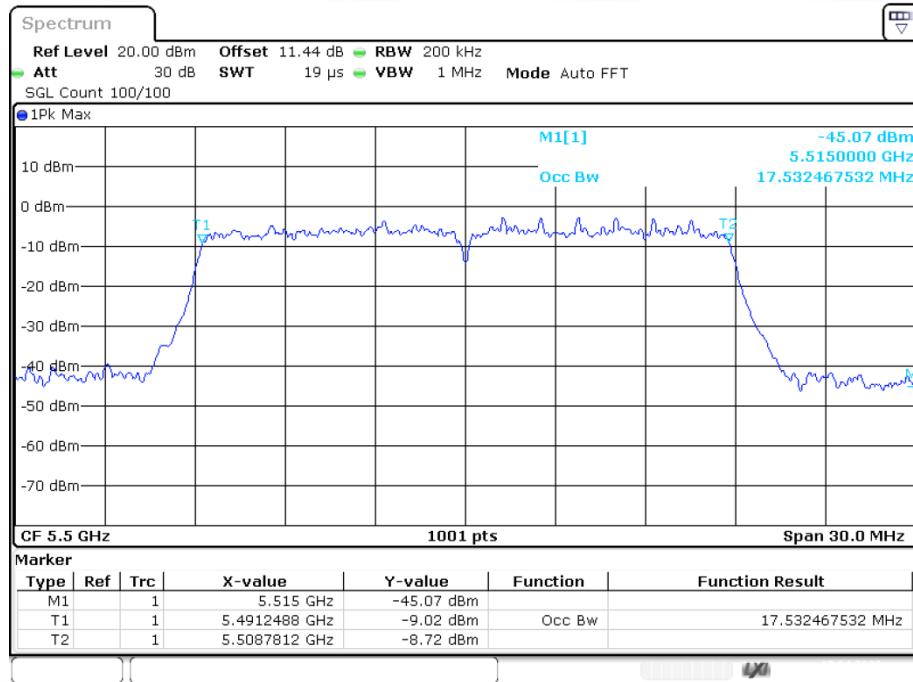
-26dB Bandwidth NVNT n20 5580MHz Ant1

-26dB Bandwidth NVNT n20 5700MHz Ant1


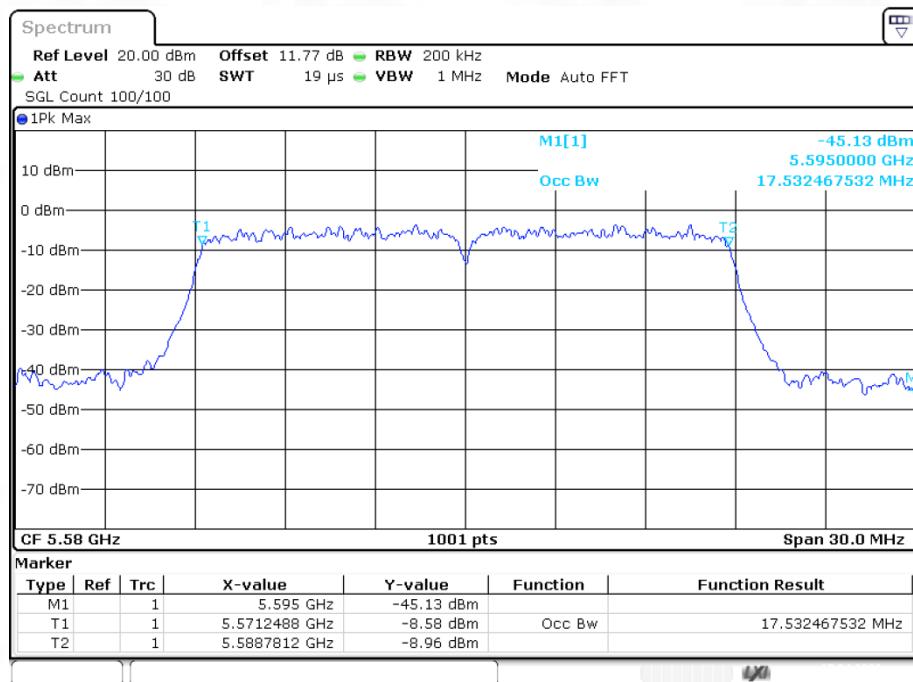
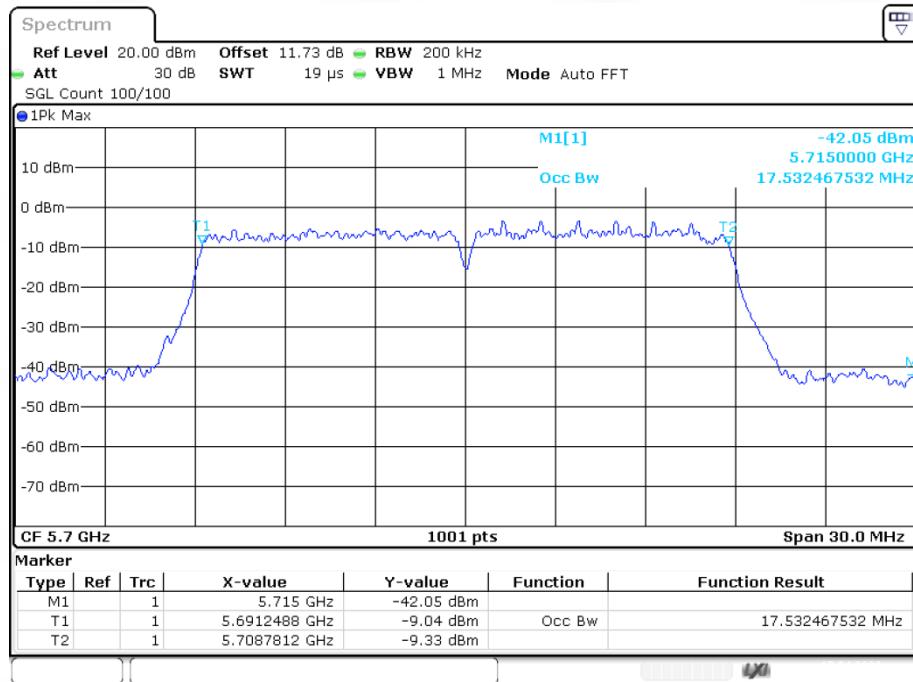
-26dB Bandwidth NVNT n40 5510MHz Ant1

-26dB Bandwidth NVNT n40 5670MHz Ant1


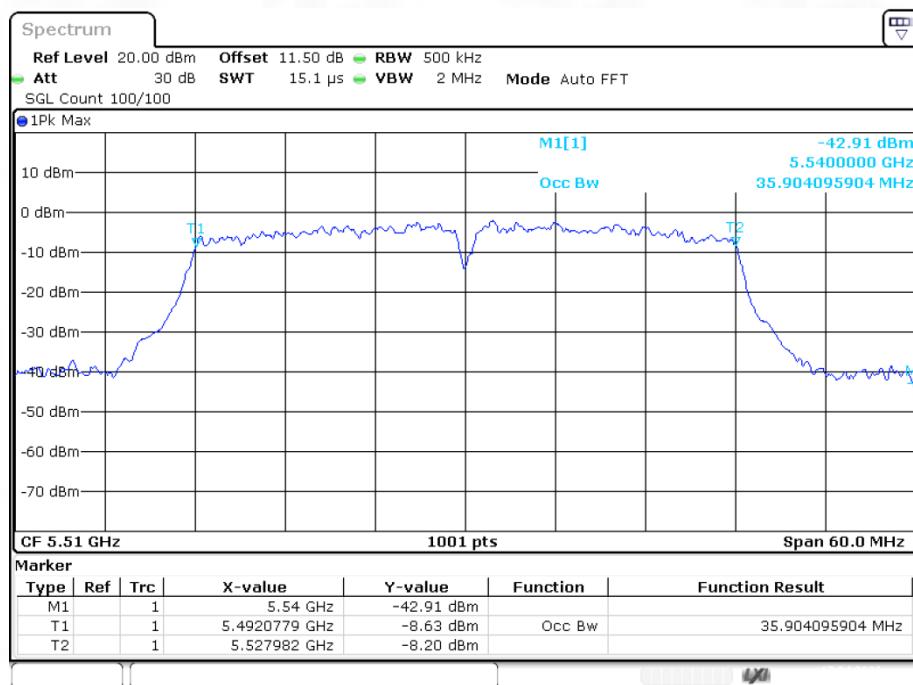
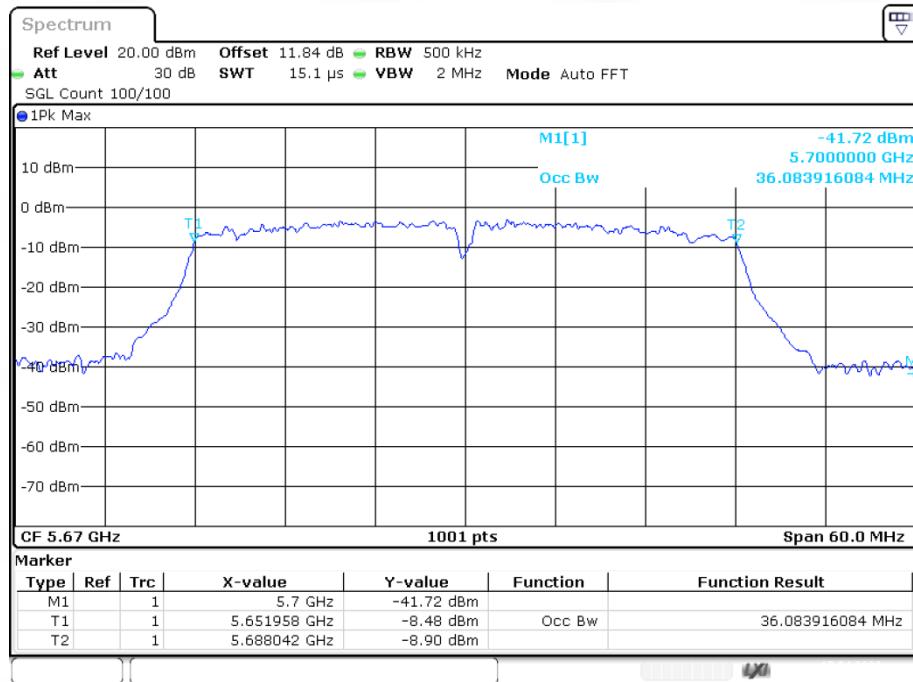
Occupied Channel Bandwidth

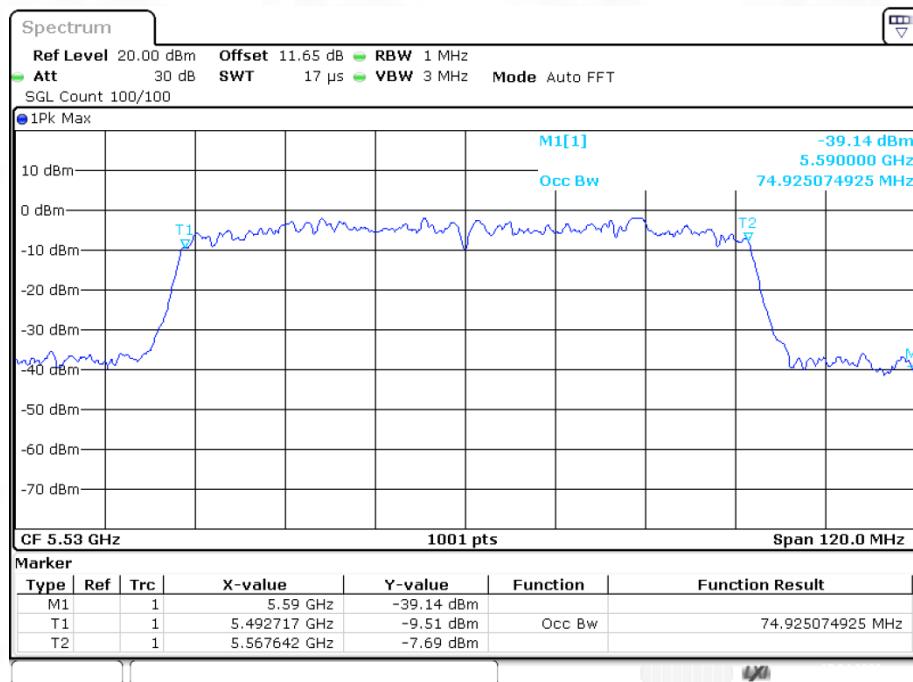
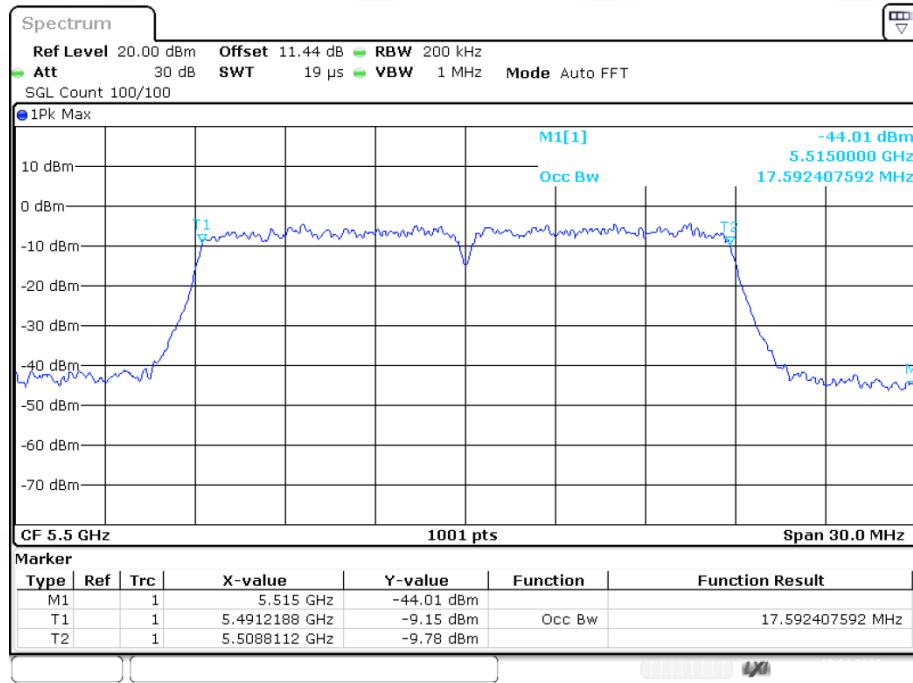
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.334
NVNT	a	5580	Ant1	16.334
NVNT	a	5700	Ant1	16.334
NVNT	ac20	5500	Ant1	17.532
NVNT	ac20	5580	Ant1	17.532
NVNT	ac20	5700	Ant1	17.532
NVNT	ac40	5510	Ant1	35.904
NVNT	ac40	5670	Ant1	36.084
NVNT	ac80	5530	Ant1	74.925
NVNT	n20	5500	Ant1	17.592
NVNT	n20	5580	Ant1	17.532
NVNT	n20	5700	Ant1	17.562
NVNT	n40	5510	Ant1	35.964
NVNT	n40	5670	Ant1	35.904

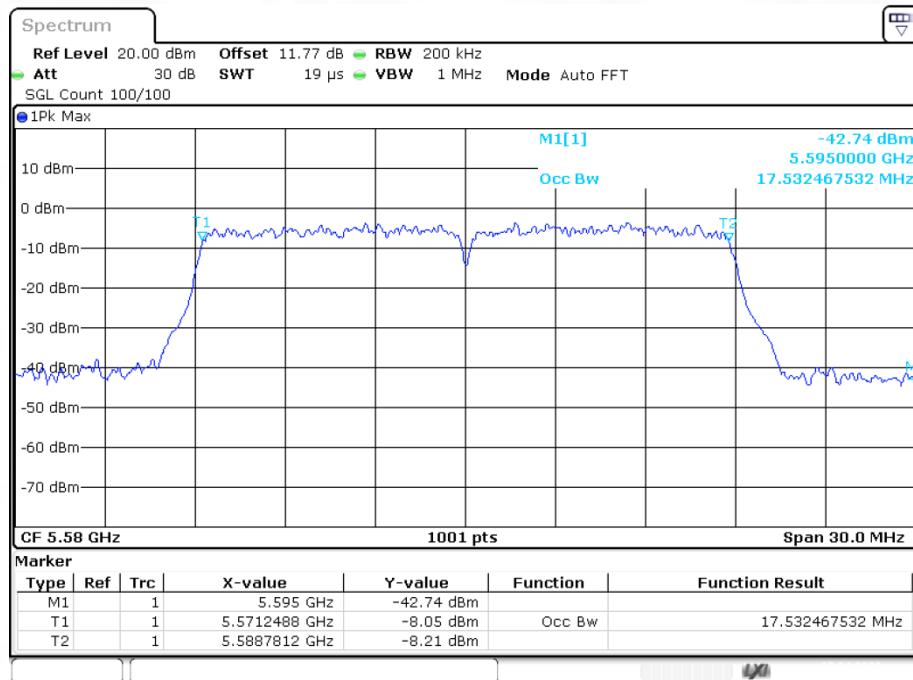
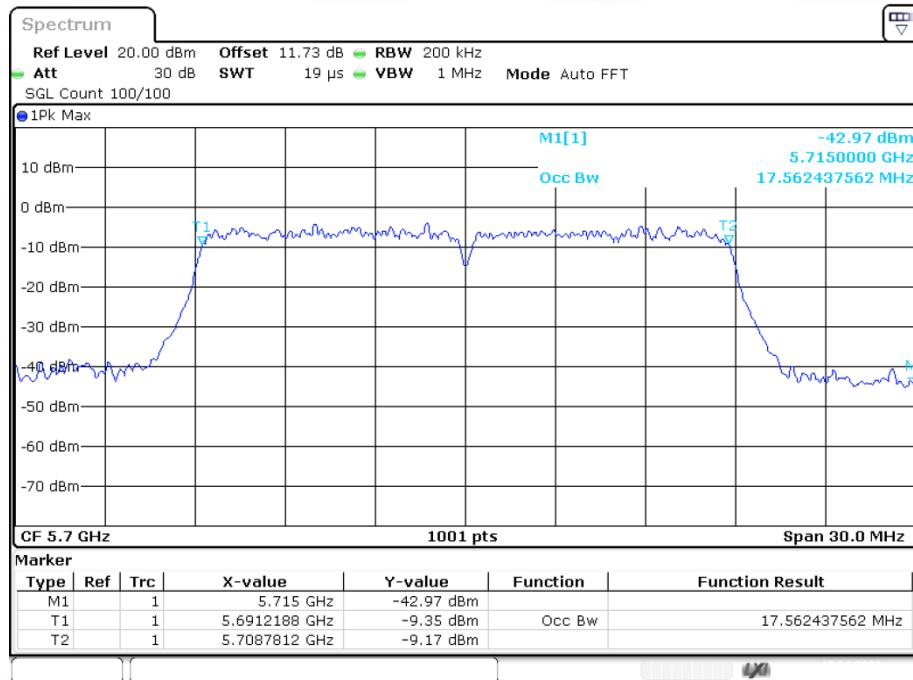
OBW NVNT a 5500MHz Ant1

OBW NVNT a 5580MHz Ant1


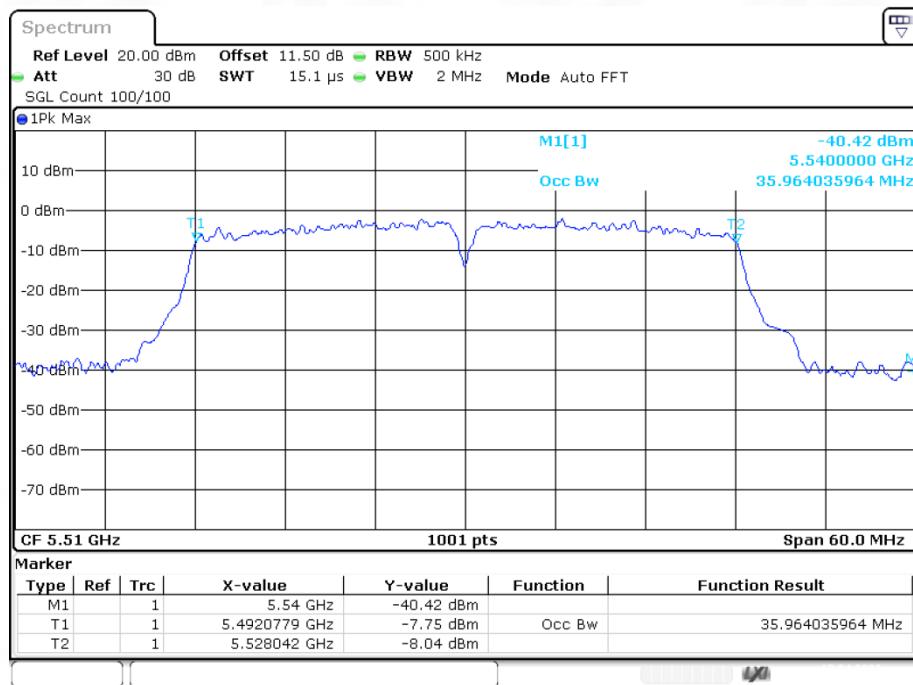
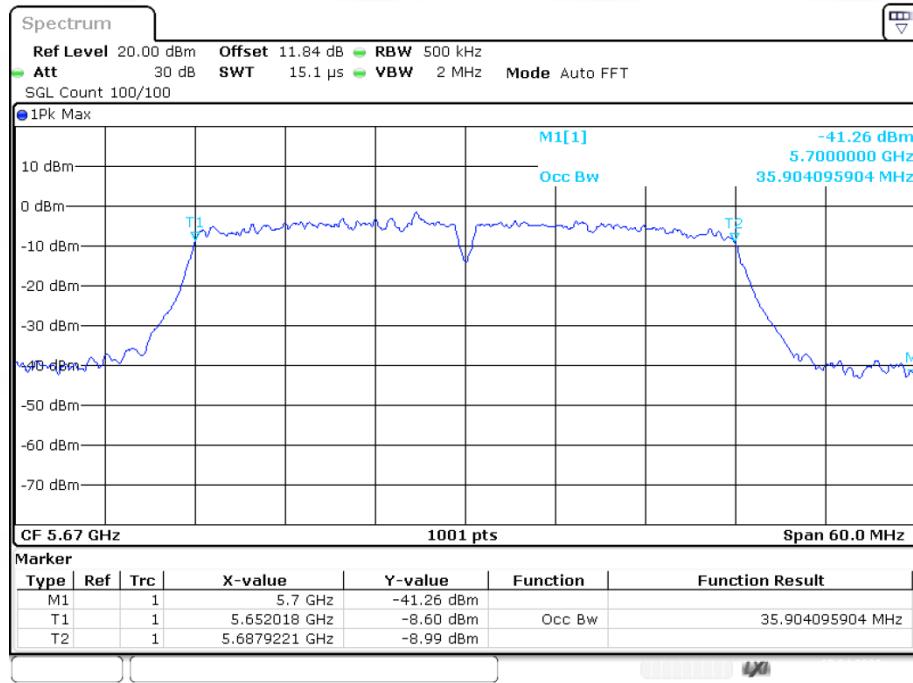
OBW NVNT a 5700MHz Ant1

OBW NVNT ac20 5500MHz Ant1


OBW NVNT ac20 5580MHz Ant1

OBW NVNT ac20 5700MHz Ant1


OBW NVNT ac40 5510MHz Ant1

OBW NVNT ac40 5670MHz Ant1


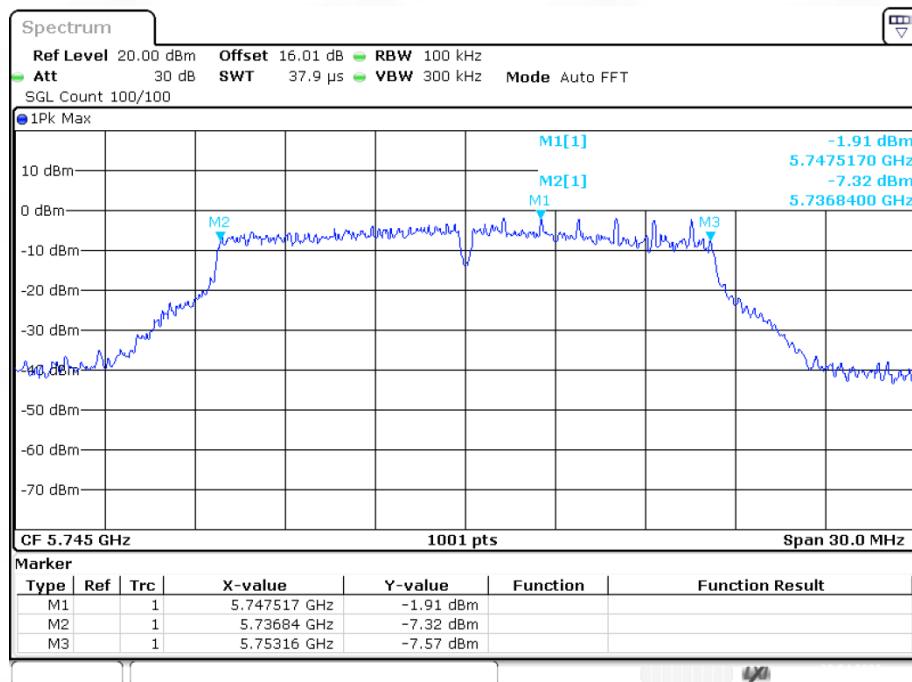
OBW NVNT ac80 5530MHz Ant1

OBW NVNT n20 5500MHz Ant1


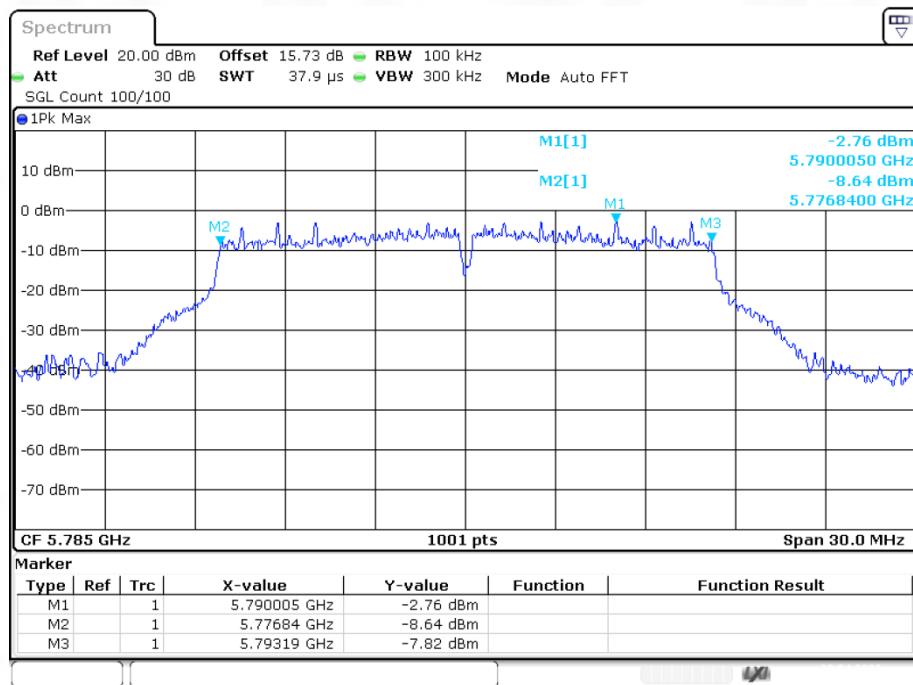
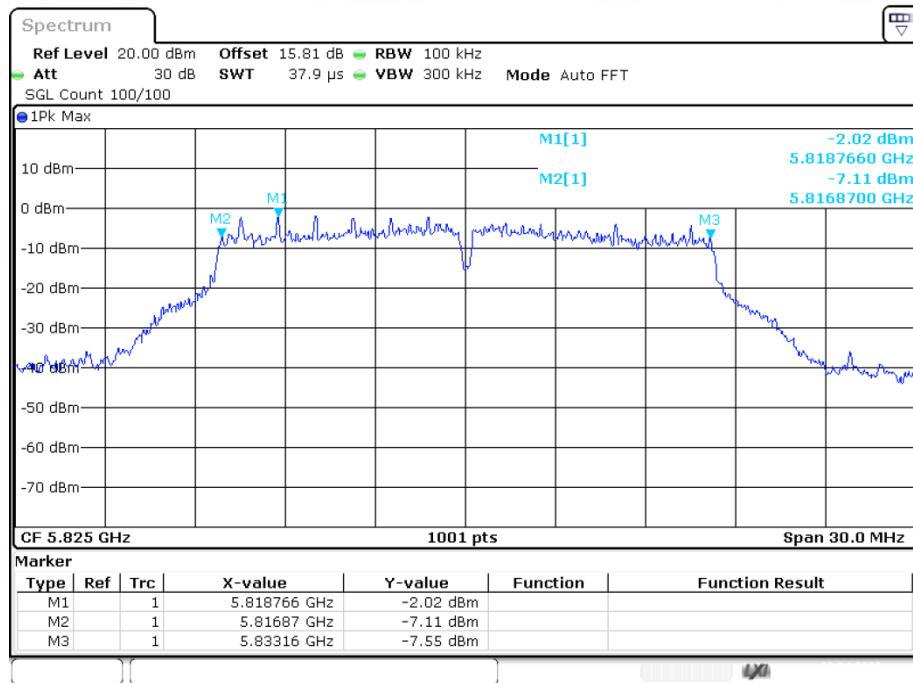
OBW NVNT n20 5580MHz Ant1

OBW NVNT n20 5700MHz Ant1


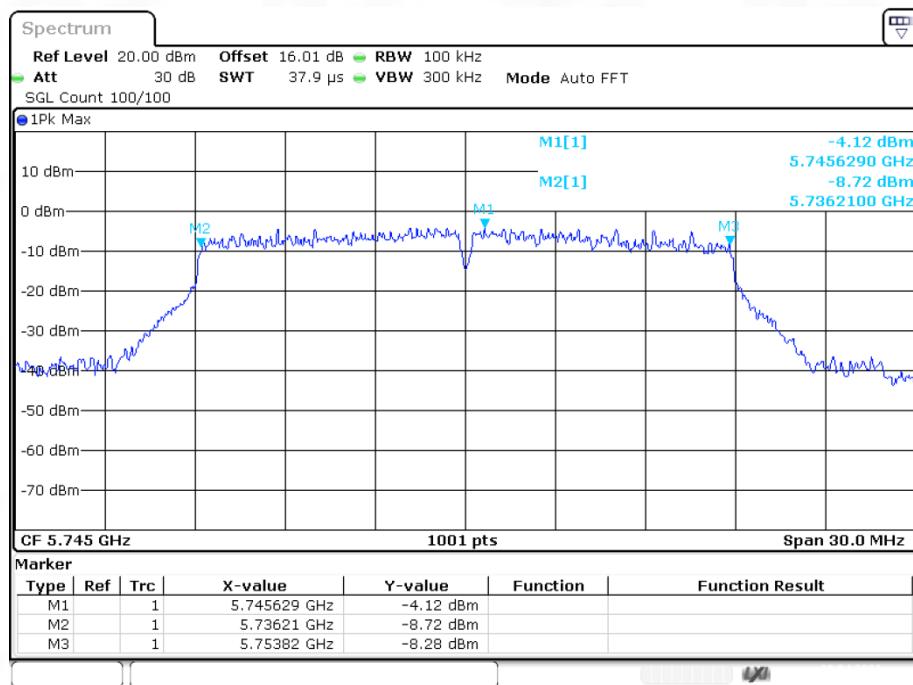
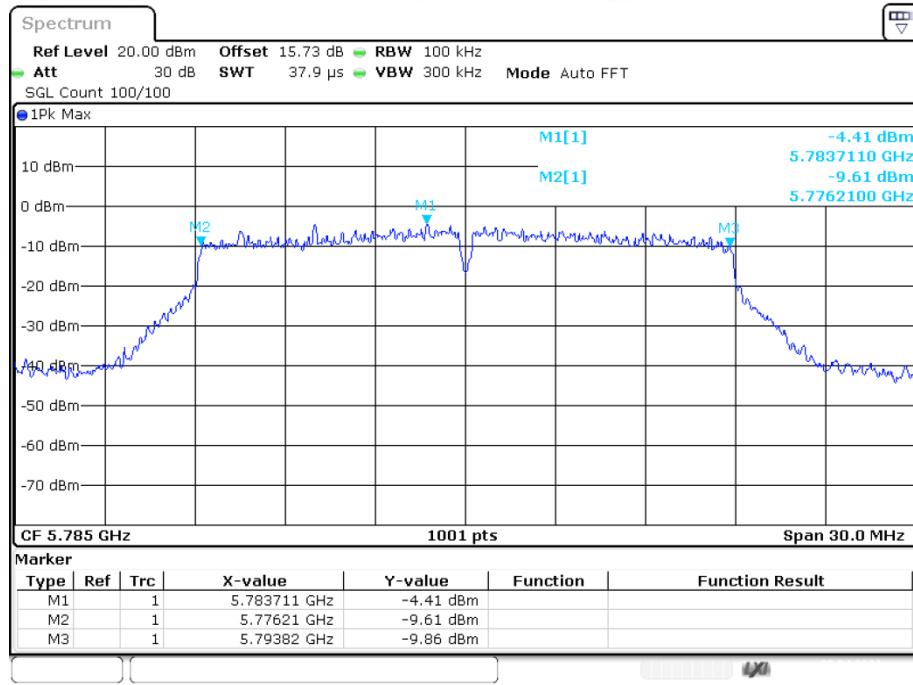
OBW NVNT n40 5510MHz Ant1

OBW NVNT n40 5670MHz Ant1


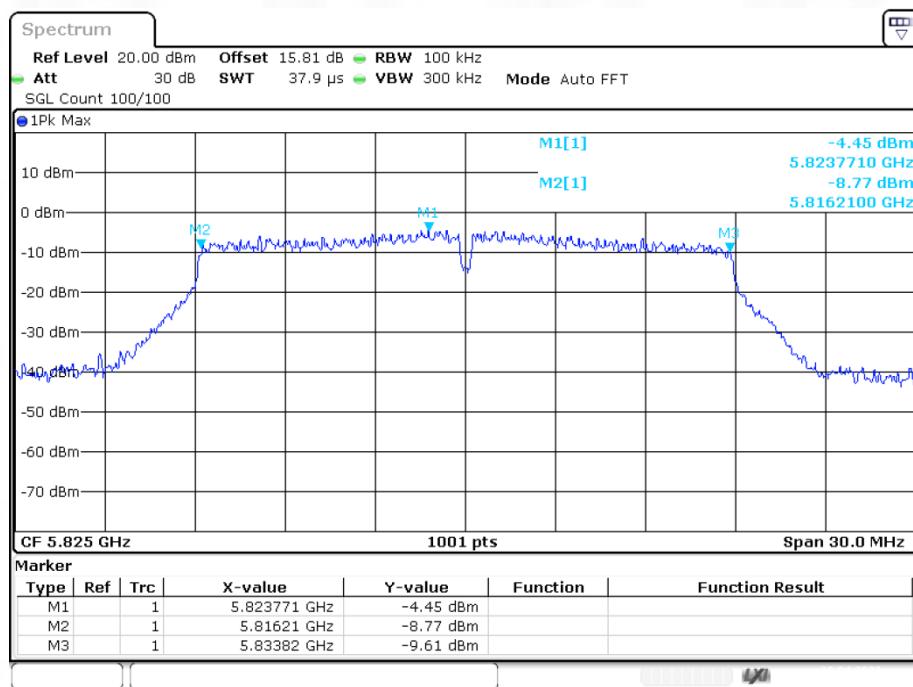
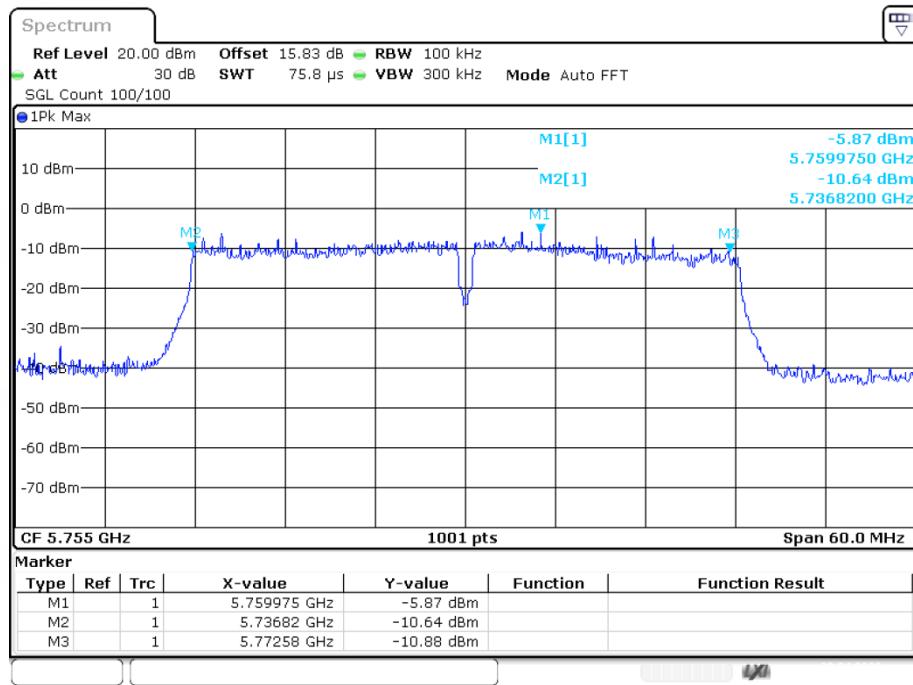
**Band 4 (5725-5850 MHz):
-6dB Bandwidth**

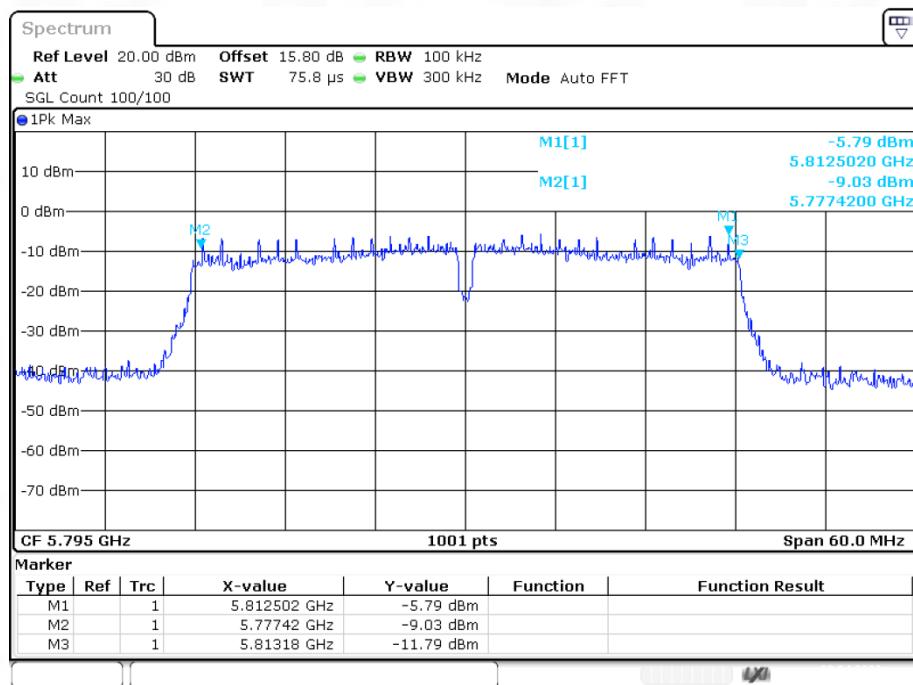
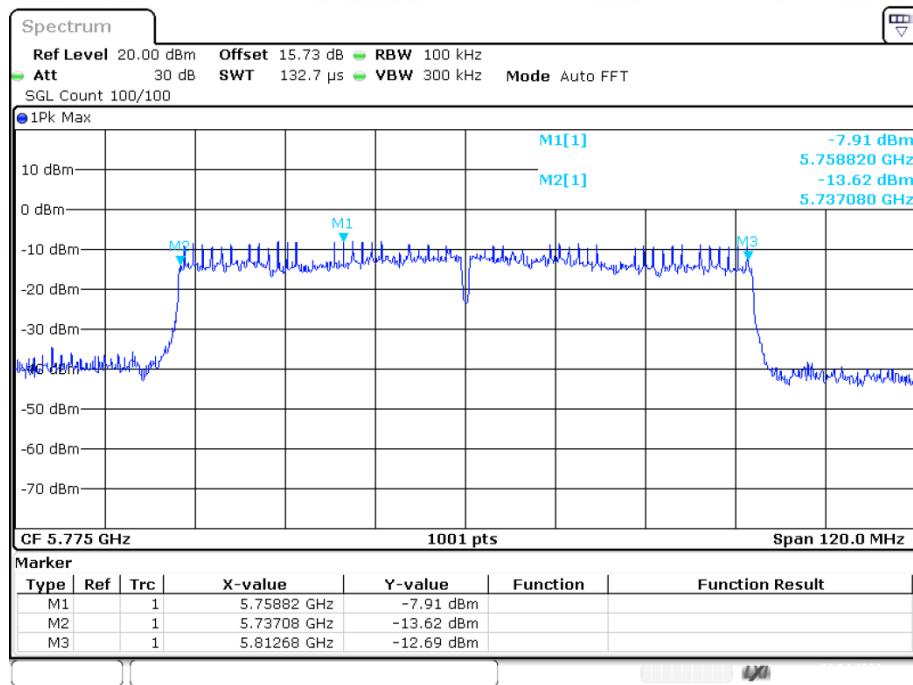
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.32	0.5	Pass
NVNT	a	5785	Ant1	16.35	0.5	Pass
NVNT	a	5825	Ant1	16.29	0.5	Pass
NVNT	ac20	5745	Ant1	17.61	0.5	Pass
NVNT	ac20	5785	Ant1	17.61	0.5	Pass
NVNT	ac20	5825	Ant1	17.61	0.5	Pass
NVNT	ac40	5755	Ant1	35.76	0.5	Pass
NVNT	ac40	5795	Ant1	35.76	0.5	Pass
NVNT	ac80	5775	Ant1	75.6	0.5	Pass
NVNT	n20	5745	Ant1	17.67	0.5	Pass
NVNT	n20	5785	Ant1	17.31	0.5	Pass
NVNT	n20	5825	Ant1	17.61	0.5	Pass
NVNT	n40	5755	Ant1	35.76	0.5	Pass
NVNT	n40	5795	Ant1	36.36	0.5	Pass

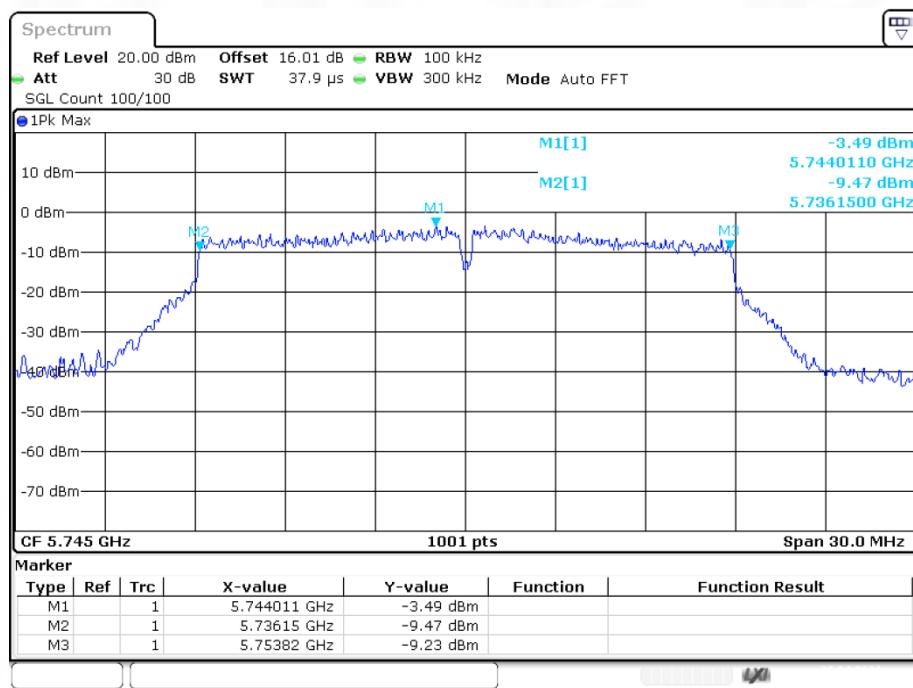
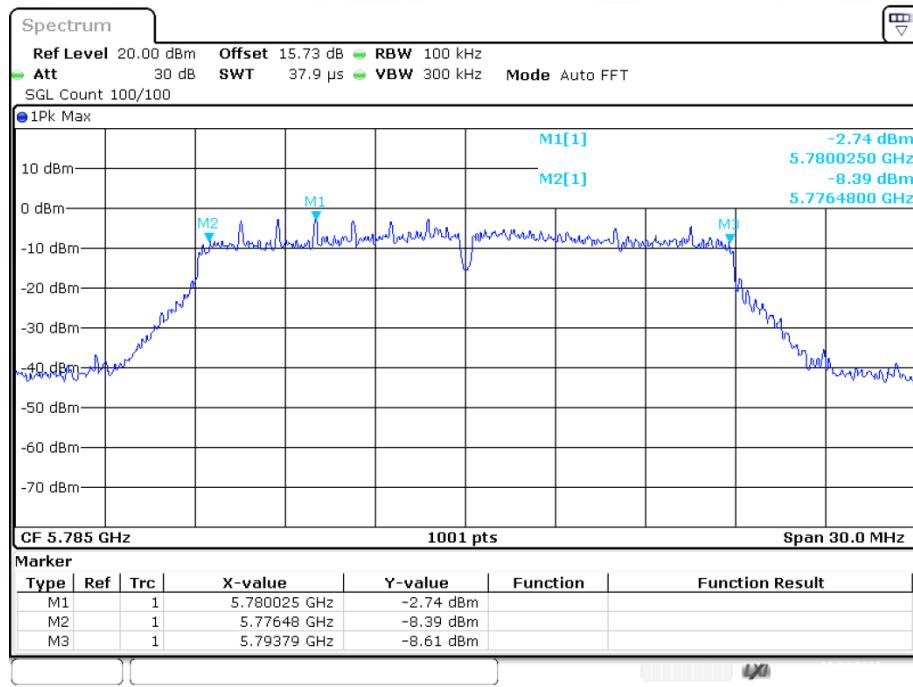
-6dB Bandwidth NVNT a 5745MHz Ant1


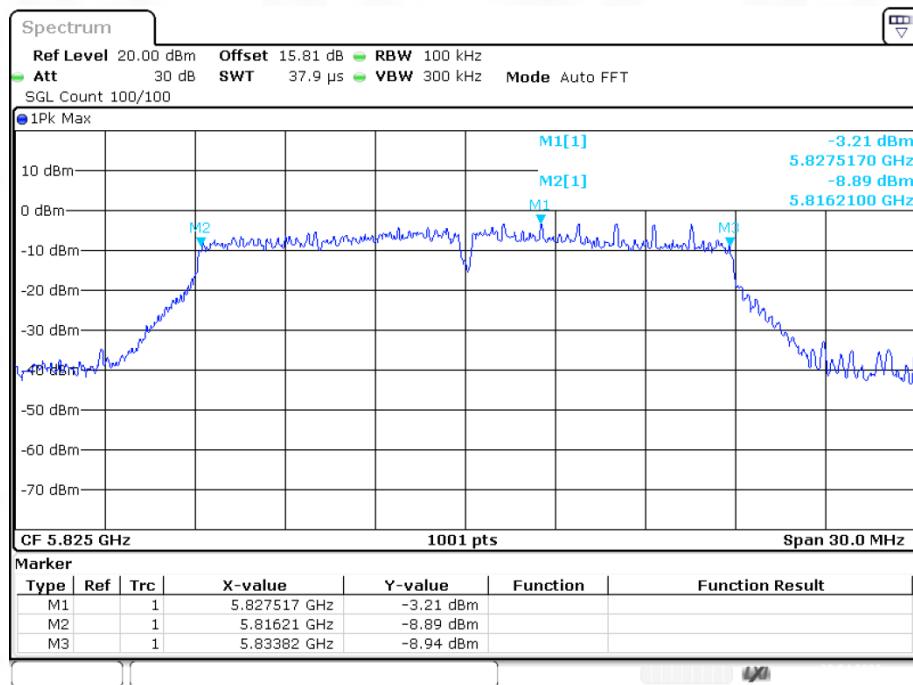
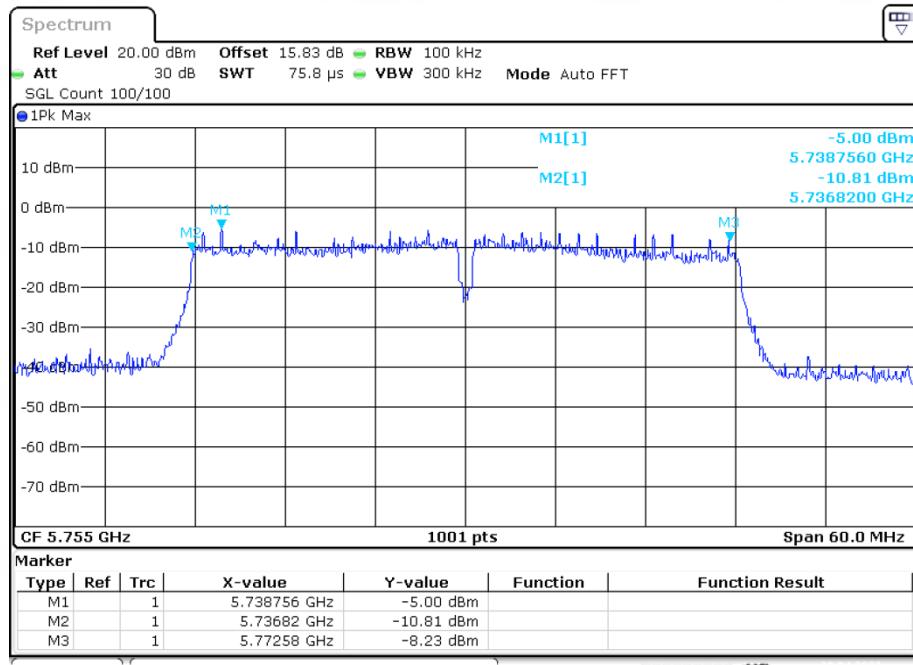
-6dB Bandwidth NVNT a 5785MHz Ant1

-6dB Bandwidth NVNT a 5825MHz Ant1


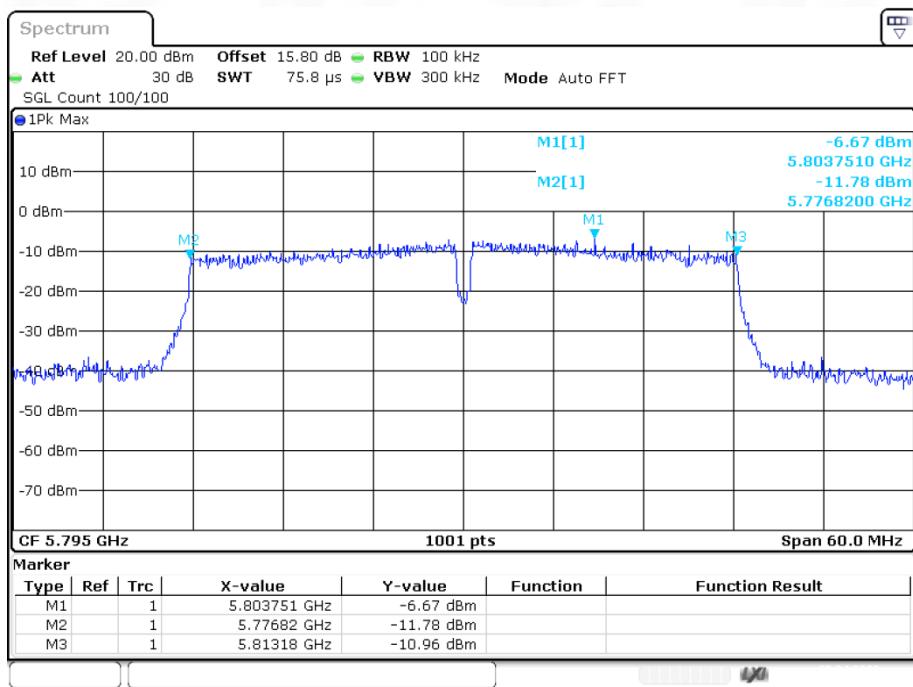
-6dB Bandwidth NVNT ac20 5745MHz Ant1

-6dB Bandwidth NVNT ac20 5785MHz Ant1


-6dB Bandwidth NVNT ac20 5825MHz Ant1

-6dB Bandwidth NVNT ac40 5755MHz Ant1


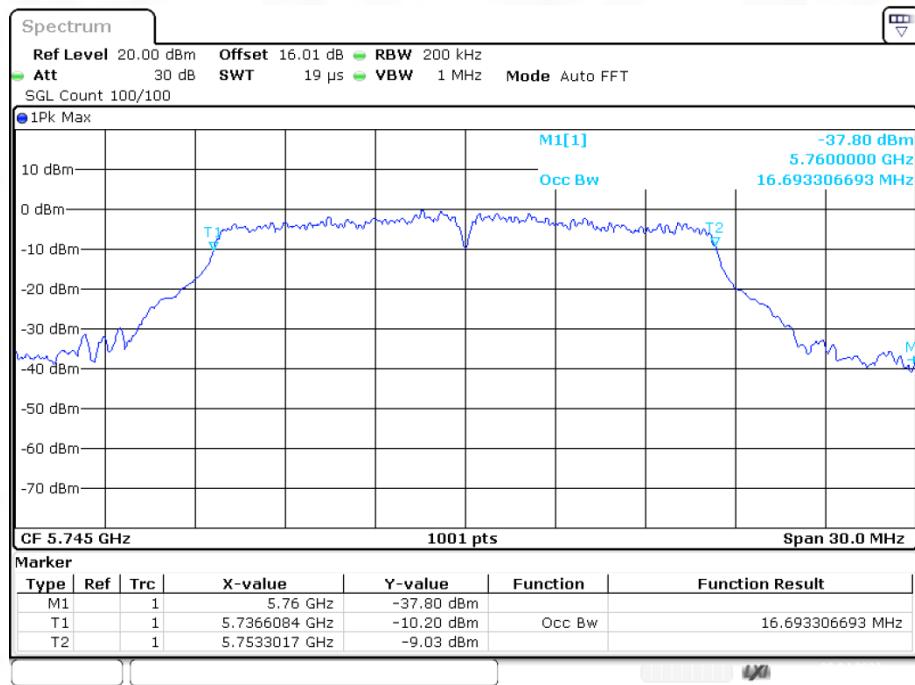
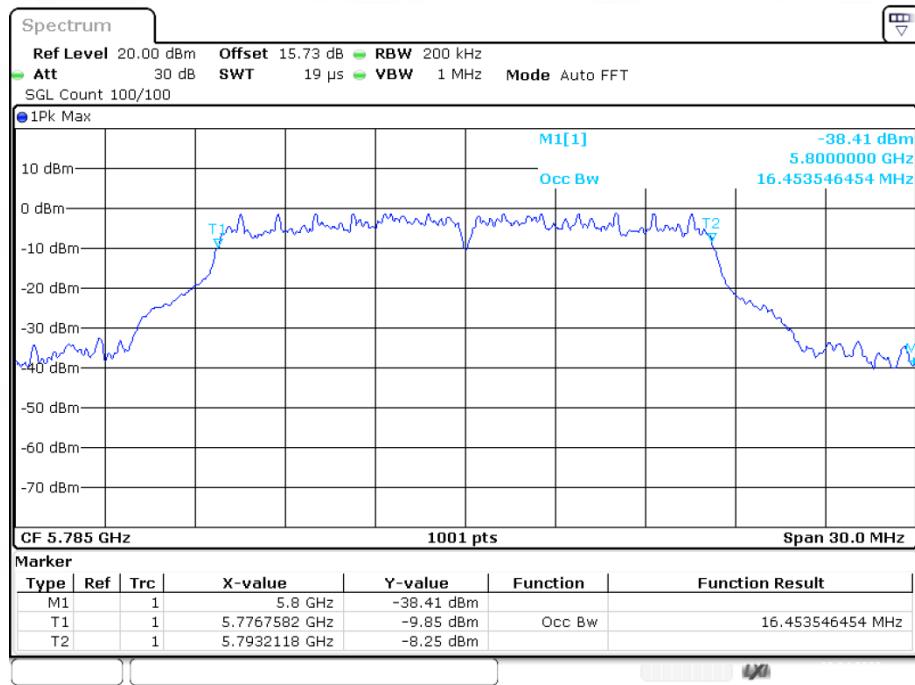
-6dB Bandwidth NVNT ac40 5795MHz Ant1

-6dB Bandwidth NVNT ac80 5775MHz Ant1


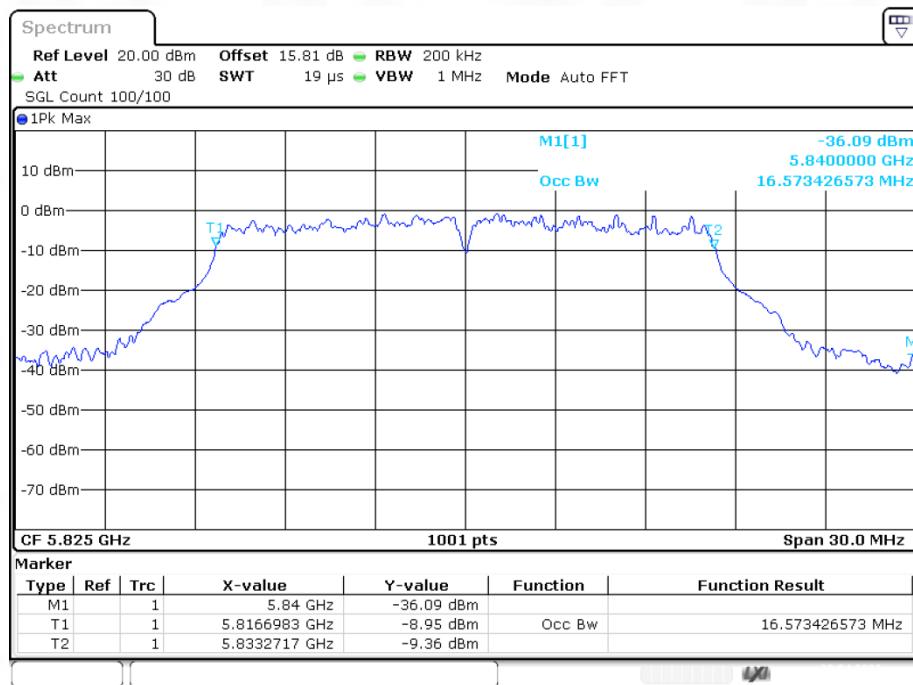
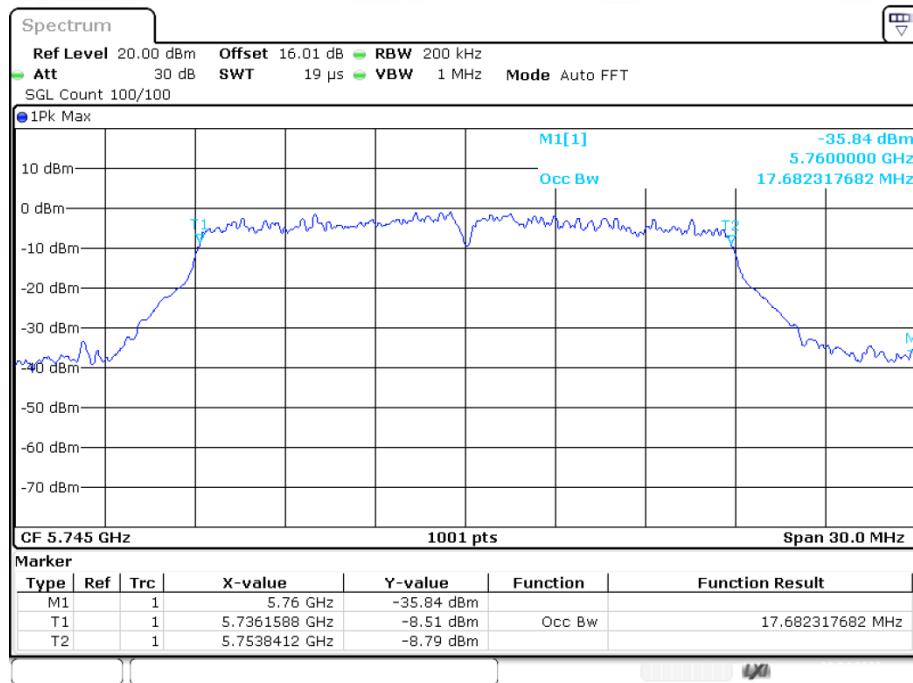
-6dB Bandwidth NVNT n20 5745MHz Ant1

-6dB Bandwidth NVNT n20 5785MHz Ant1


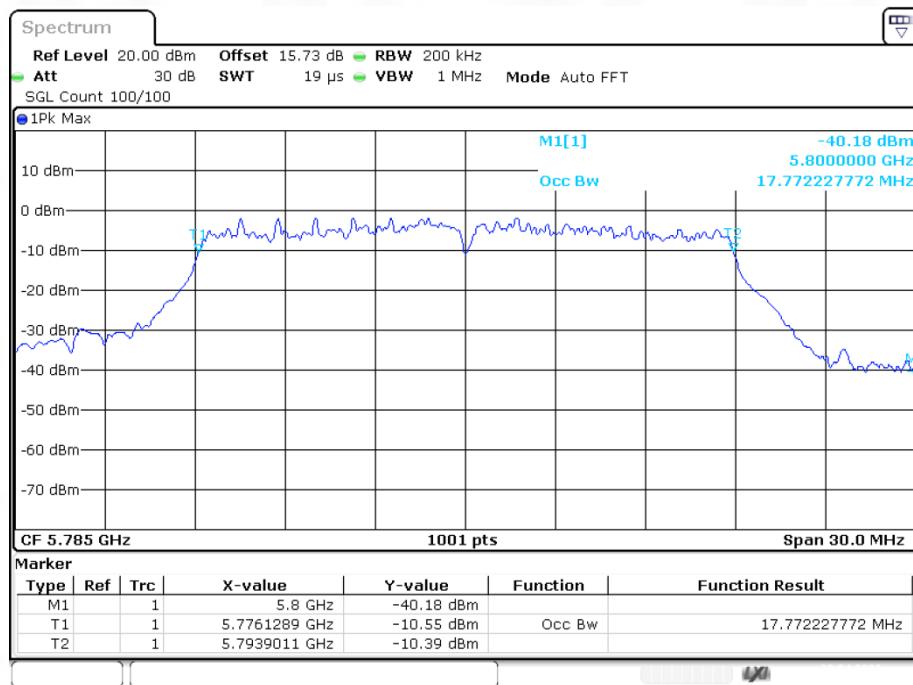
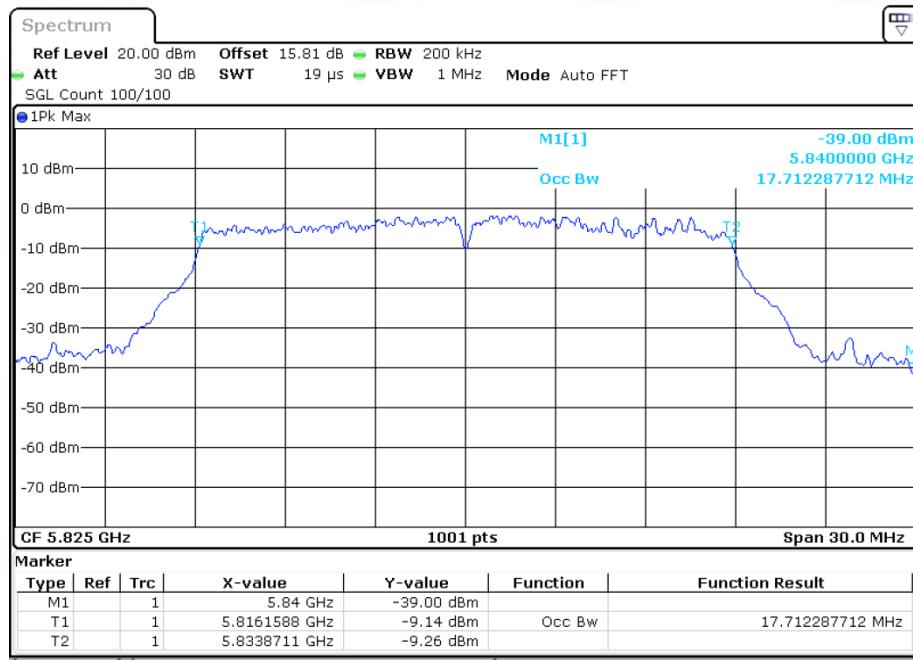
-6dB Bandwidth NVNT n20 5825MHz Ant1

-6dB Bandwidth NVNT n40 5755MHz Ant1


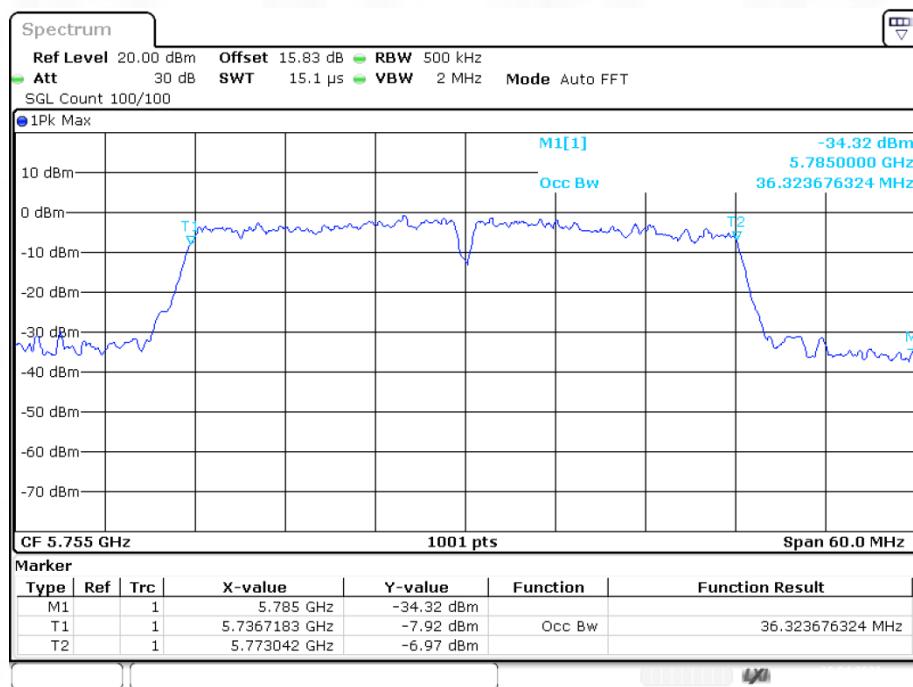
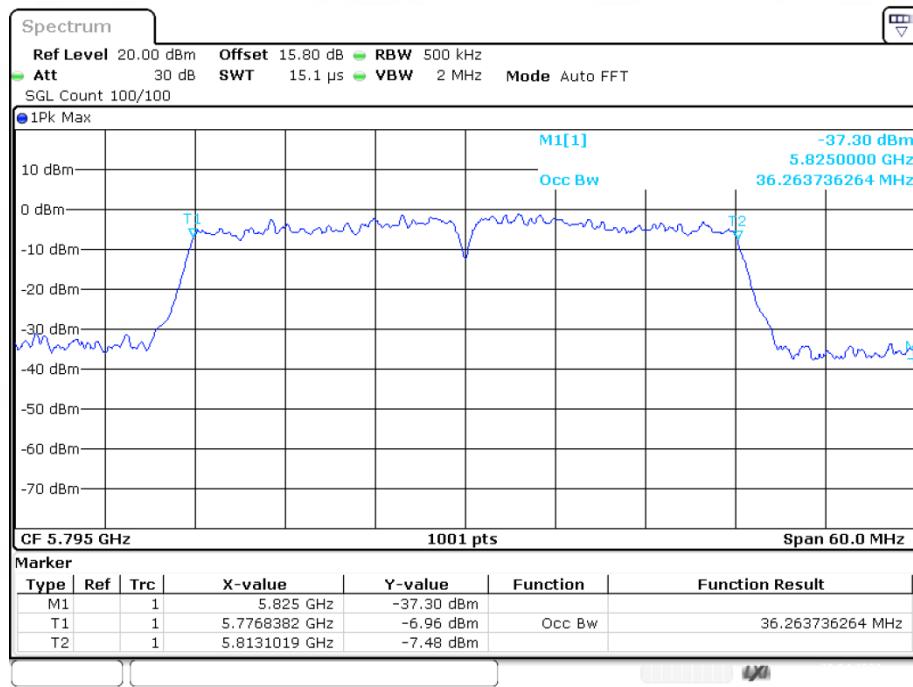
-6dB Bandwidth NVNT n40 5795MHz Ant1

Occupied Channel Bandwidth

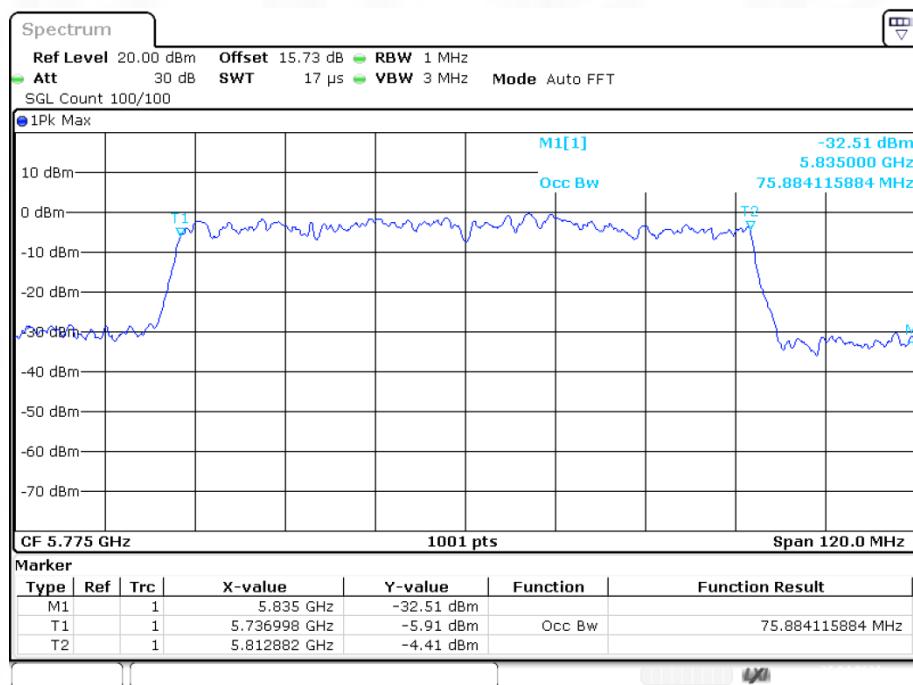
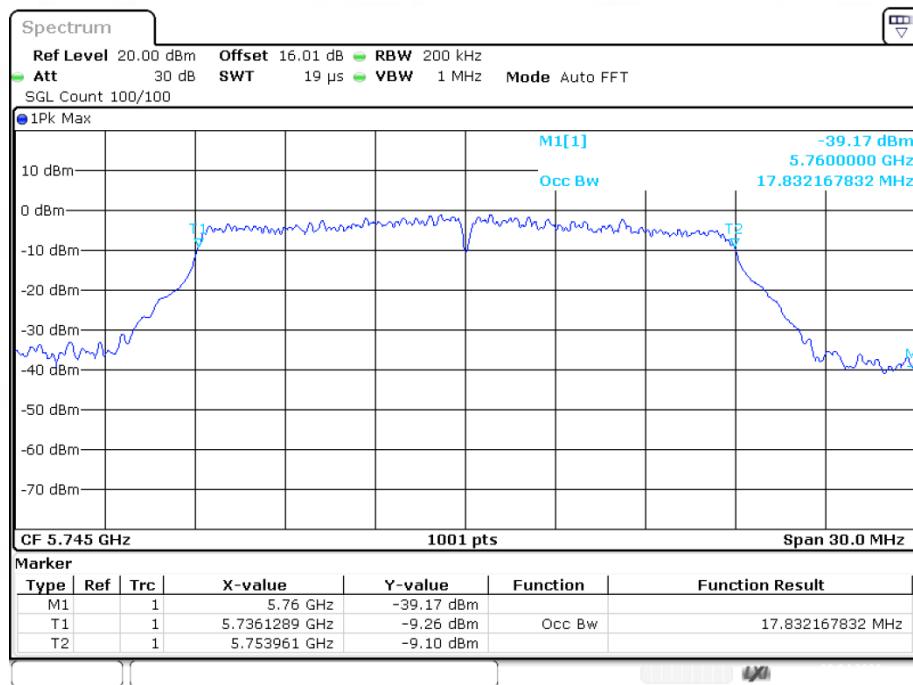
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.693
NVNT	a	5785	Ant1	16.454
NVNT	a	5825	Ant1	16.573
NVNT	ac20	5745	Ant1	17.682
NVNT	ac20	5785	Ant1	17.772
NVNT	ac20	5825	Ant1	17.712
NVNT	ac40	5755	Ant1	36.324
NVNT	ac40	5795	Ant1	36.264
NVNT	ac80	5775	Ant1	75.884
NVNT	n20	5745	Ant1	17.832
NVNT	n20	5785	Ant1	17.742
NVNT	n20	5825	Ant1	17.682
NVNT	n40	5755	Ant1	36.084
NVNT	n40	5795	Ant1	36.324

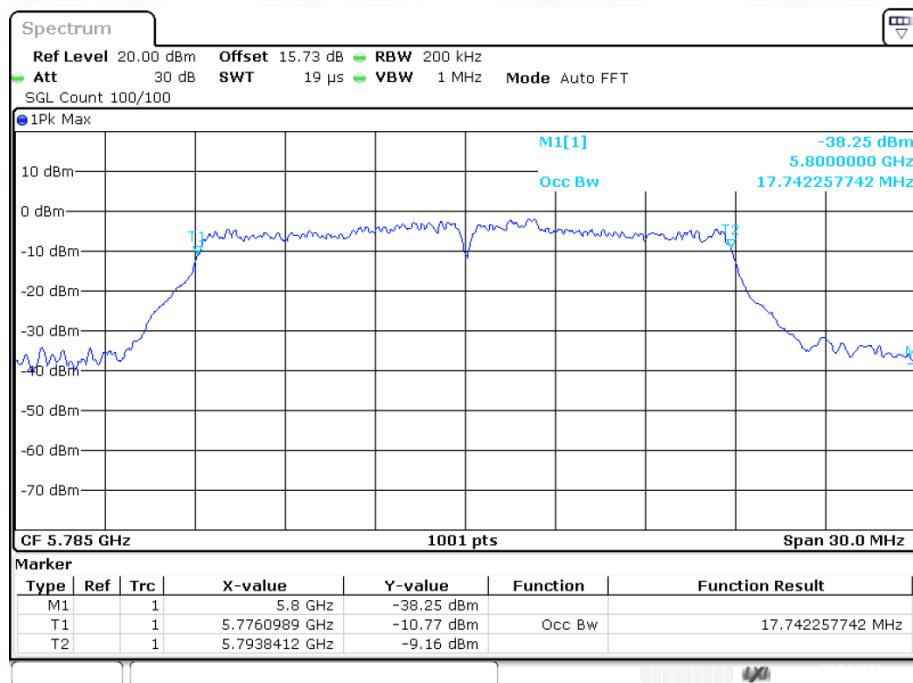
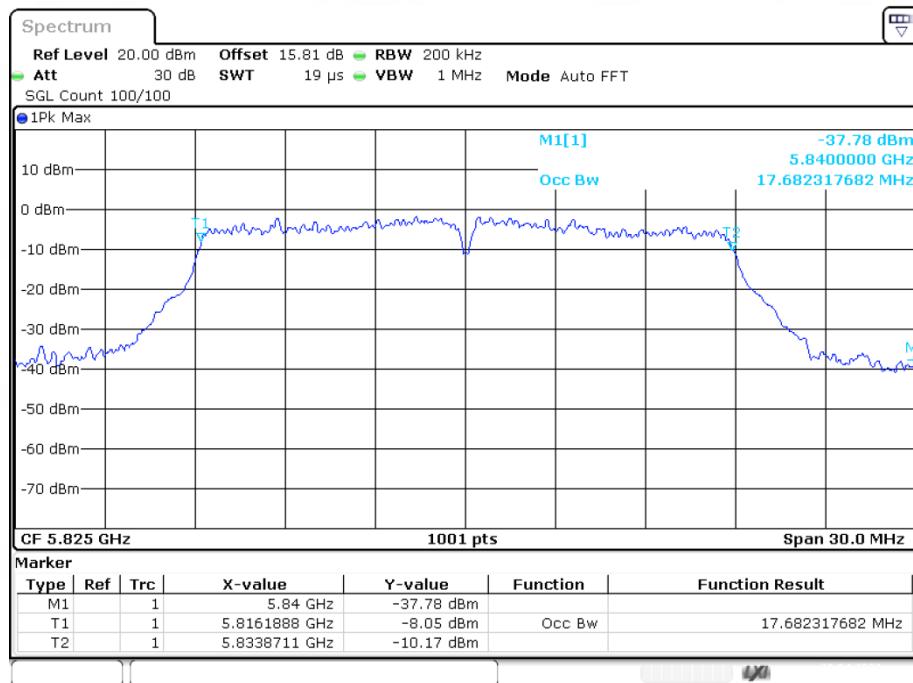
OBW NVNT a 5745MHz Ant1

OBW NVNT a 5785MHz Ant1


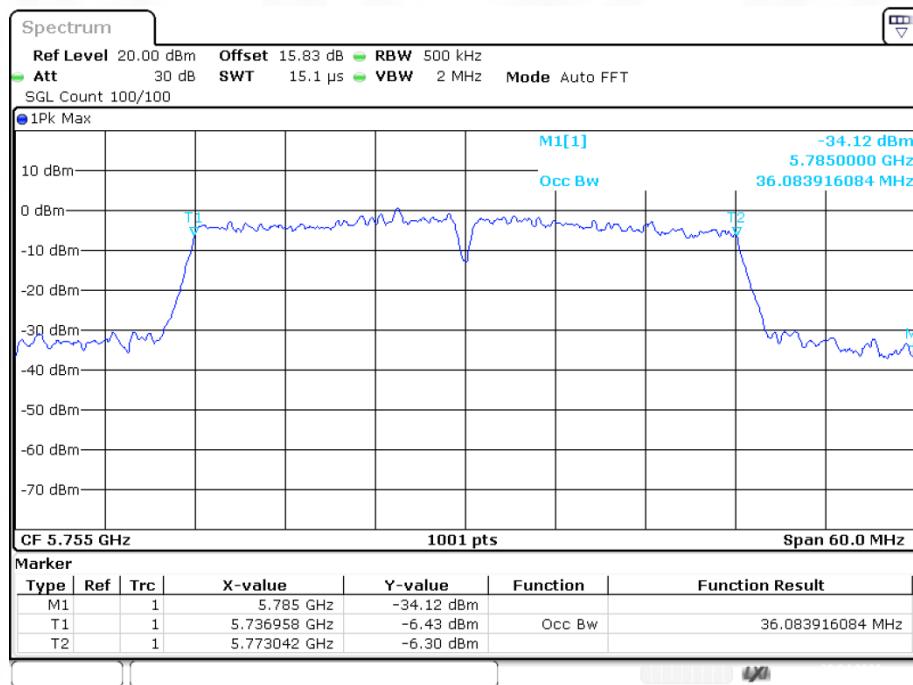
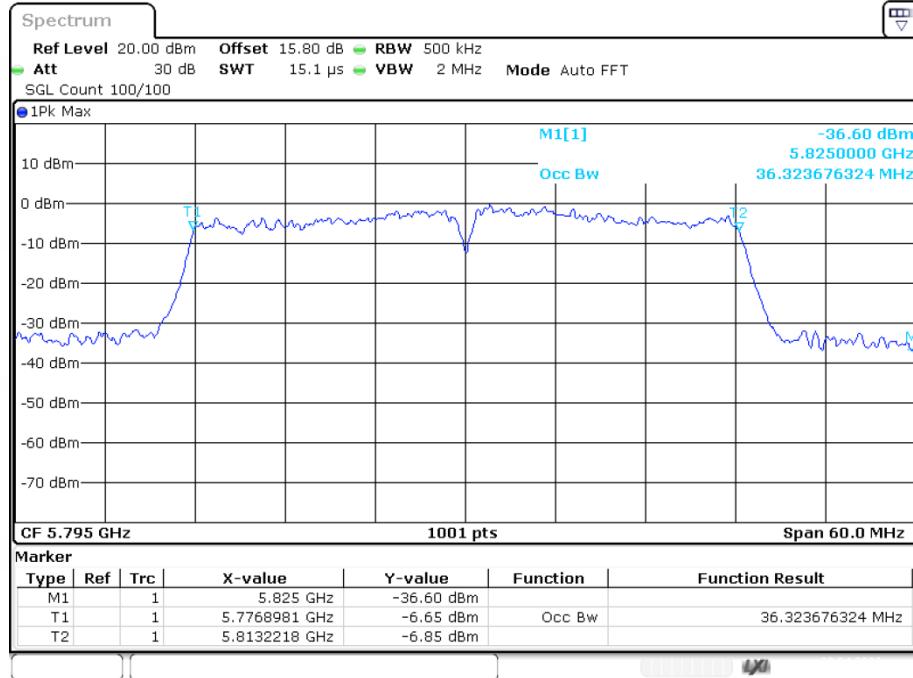
OBW NVNT a 5825MHz Ant1

OBW NVNT ac20 5745MHz Ant1


OBW NVNT ac20 5785MHz Ant1

OBW NVNT ac20 5825MHz Ant1


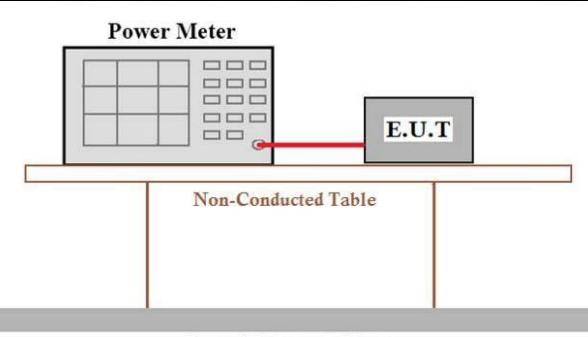
OBW NVNT ac40 5755MHz Ant1

OBW NVNT ac40 5795MHz Ant1


OBW NVNT ac80 5775MHz Ant1

OBW NVNT n20 5745MHz Ant1


OBW NVNT n20 5785MHz Ant1

OBW NVNT n20 5825MHz Ant1


OBW NVNT n40 5755MHz Ant1

OBW NVNT n40 5795MHz Ant1


4.4 Peak Transmit Power

Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	<p>For the band 5.15-5.25GHz, 5.25-5.35GHz, 5.47-5.725GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 250mW.</p> <p>For the band 5.725-5.85GHz, the maximum conducted output power over the frequency bands of operation shall not exceed 1W.</p>
Test setup:	
Test procedure:	<p>Measurement using an RF average power meter</p> <p>(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied</p> <ul style="list-style-type: none"> a) The EUT is configured to transmit continuously or to transmit with a constant duty cycle. b) At all times when the EUT is transmitting, it must be transmitting at its maximum power control level. c) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five. <p>(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section B).</p> <p>(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.</p> <p>(iv) Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10\log(1/0.25)$ if the duty cycle is 25 percent).</p>



Test Report Number: BTF230612R00304

Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data
Band 1 (5150-5250 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.78	24	Pass
NVNT	a	5200	Ant1	16.33	24	Pass
NVNT	a	5240	Ant1	16.20	24	Pass
NVNT	ac20	5180	Ant1	16.53	24	Pass
NVNT	ac20	5200	Ant1	16.18	24	Pass
NVNT	ac20	5240	Ant1	16.49	24	Pass
NVNT	ac40	5190	Ant1	15.53	24	Pass
NVNT	ac40	5230	Ant1	15.83	24	Pass
NVNT	ac80	5210	Ant1	16.77	24	Pass
NVNT	n20	5180	Ant1	16.41	24	Pass
NVNT	n20	5200	Ant1	16.65	24	Pass
NVNT	n20	5240	Ant1	15.89	24	Pass
NVNT	n40	5190	Ant1	15.82	24	Pass
NVNT	n40	5230	Ant1	15.76	24	Pass

Band 2 (5250 -5350 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	16.65	24	Pass
NVNT	a	5280	Ant1	16.35	24	Pass
NVNT	a	5320	Ant1	16.42	24	Pass
NVNT	ac20	5260	Ant1	16.52	24	Pass
NVNT	ac20	5280	Ant1	16.22	24	Pass
NVNT	ac20	5320	Ant1	16.60	24	Pass
NVNT	ac40	5270	Ant1	15.73	24	Pass
NVNT	ac40	5310	Ant1	15.67	24	Pass
NVNT	ac80	5290	Ant1	16.86	24	Pass
NVNT	n20	5260	Ant1	16.44	24	Pass
NVNT	n20	5280	Ant1	16.55	24	Pass
NVNT	n20	5320	Ant1	16.11	24	Pass
NVNT	n40	5270	Ant1	15.91	24	Pass
NVNT	n40	5310	Ant1	15.90	24	Pass

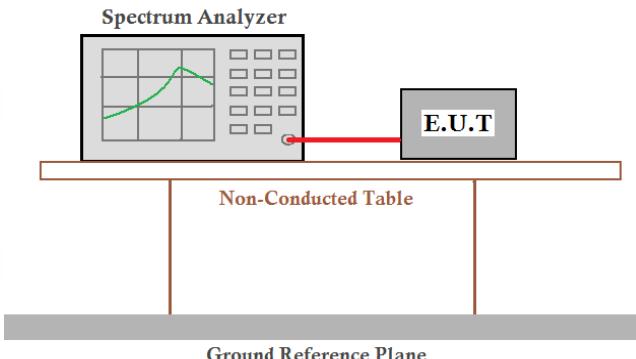
Band 3 (5740 -5725 MHz)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	16.55	24	Pass
NVNT	a	5580	Ant1	16.18	24	Pass
NVNT	a	5700	Ant1	16.33	24	Pass
NVNT	ac20	5500	Ant1	16.45	24	Pass
NVNT	ac20	5580	Ant1	16.35	24	Pass
NVNT	ac20	5700	Ant1	16.52	24	Pass
NVNT	ac40	5510	Ant1	15.56	24	Pass
NVNT	ac40	5670	Ant1	15.67	24	Pass
NVNT	ac80	5530	Ant1	16.79	24	Pass
NVNT	n20	5500	Ant1	16.50	24	Pass
NVNT	n20	5580	Ant1	16.63	24	Pass
NVNT	n20	5700	Ant1	15.94	24	Pass
NVNT	n40	5510	Ant1	15.88	24	Pass
NVNT	n40	5670	Ant1	15.82	24	Pass

Band 4 (5725 – 5850 MHz)

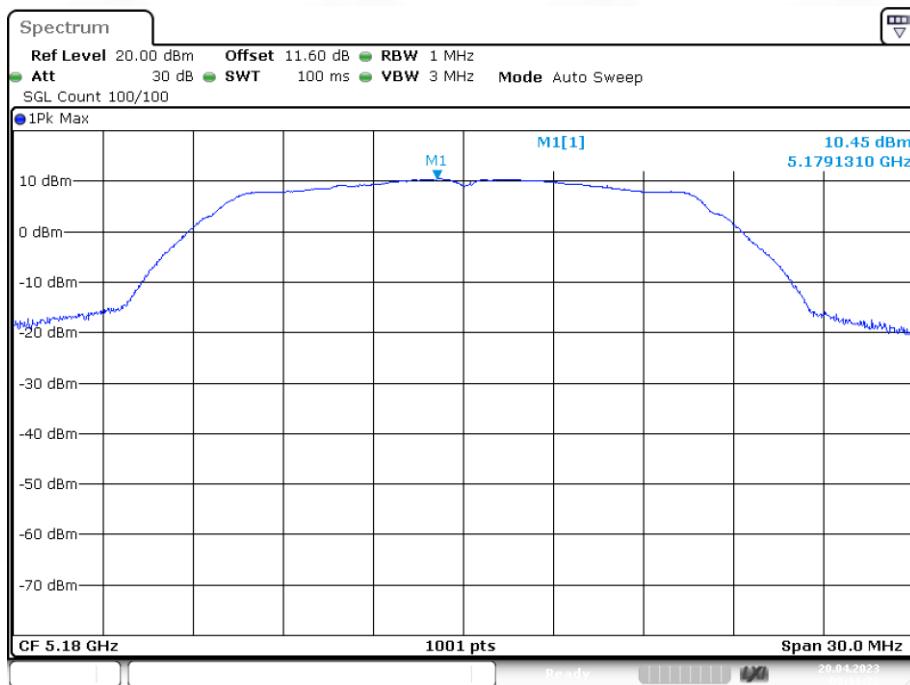
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	16.73	30	Pass
NVNT	a	5785	Ant1	16.17	30	Pass
NVNT	a	5825	Ant1	16.28	30	Pass
NVNT	ac20	5745	Ant1	16.47	30	Pass
NVNT	ac20	5785	Ant1	16.31	30	Pass
NVNT	ac20	5825	Ant1	16.43	30	Pass
NVNT	ac40	5755	Ant1	15.68	30	Pass
NVNT	ac40	5795	Ant1	15.73	30	Pass
NVNT	ac80	5775	Ant1	16.80	30	Pass
NVNT	n20	5745	Ant1	16.63	30	Pass
NVNT	n20	5785	Ant1	16.64	30	Pass
NVNT	n20	5825	Ant1	16.06	30	Pass
NVNT	n40	5755	Ant1	15.98	30	Pass
NVNT	n40	5795	Ant1	15.75	30	Pass

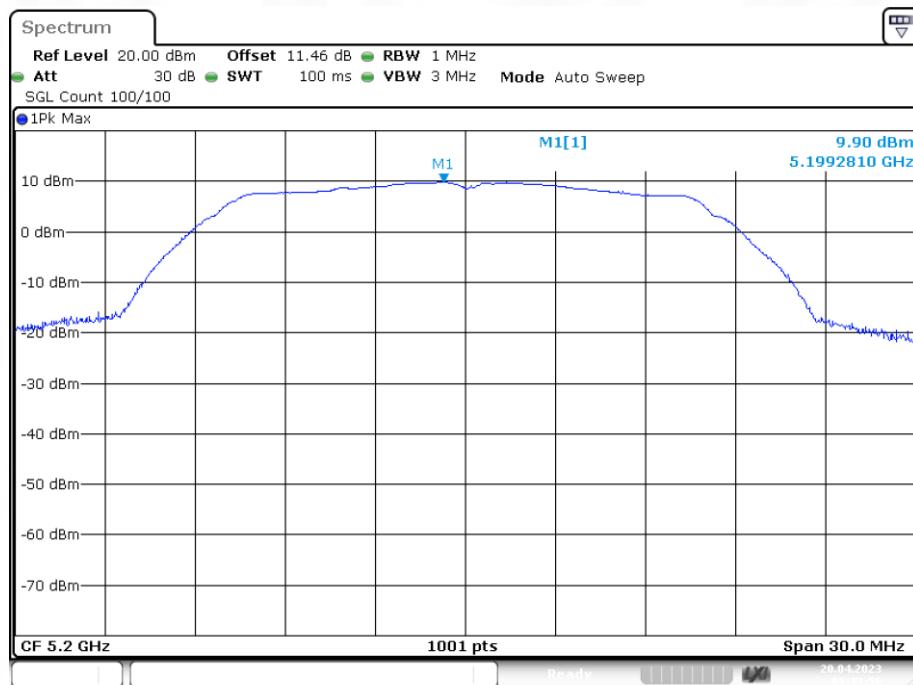
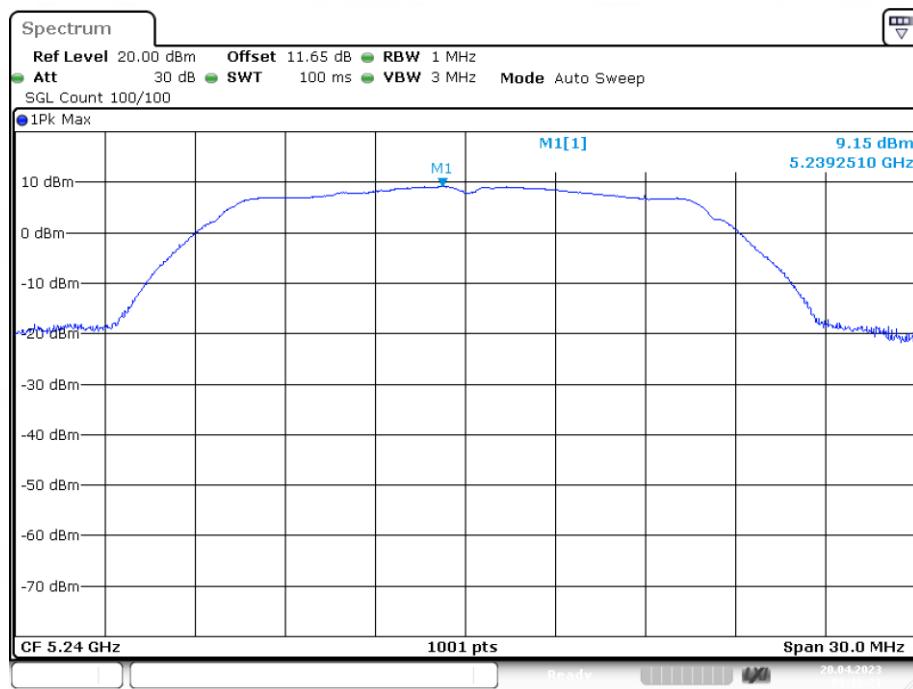
4.5 Power Spectral Density

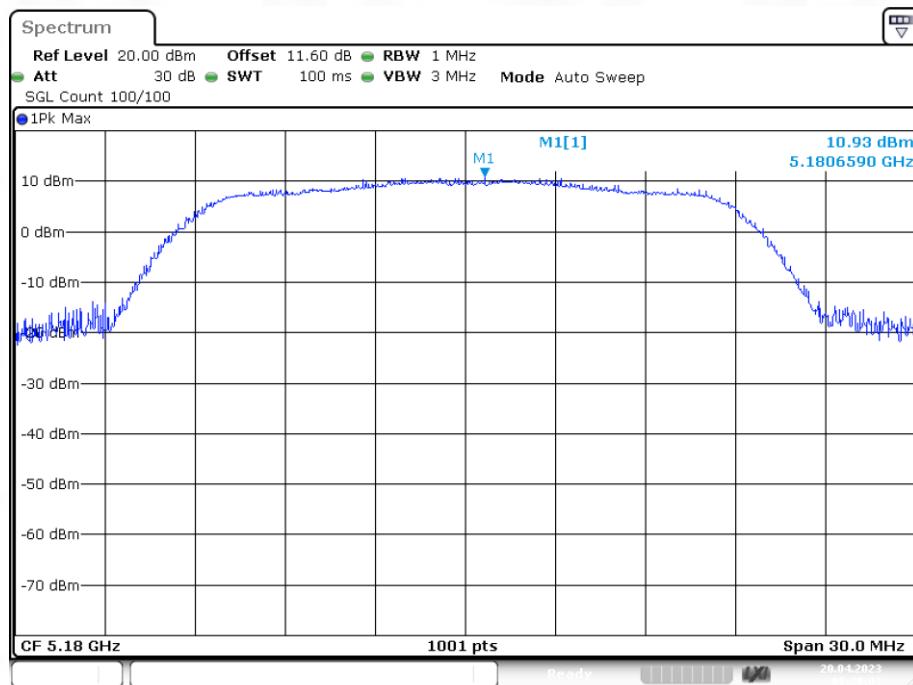
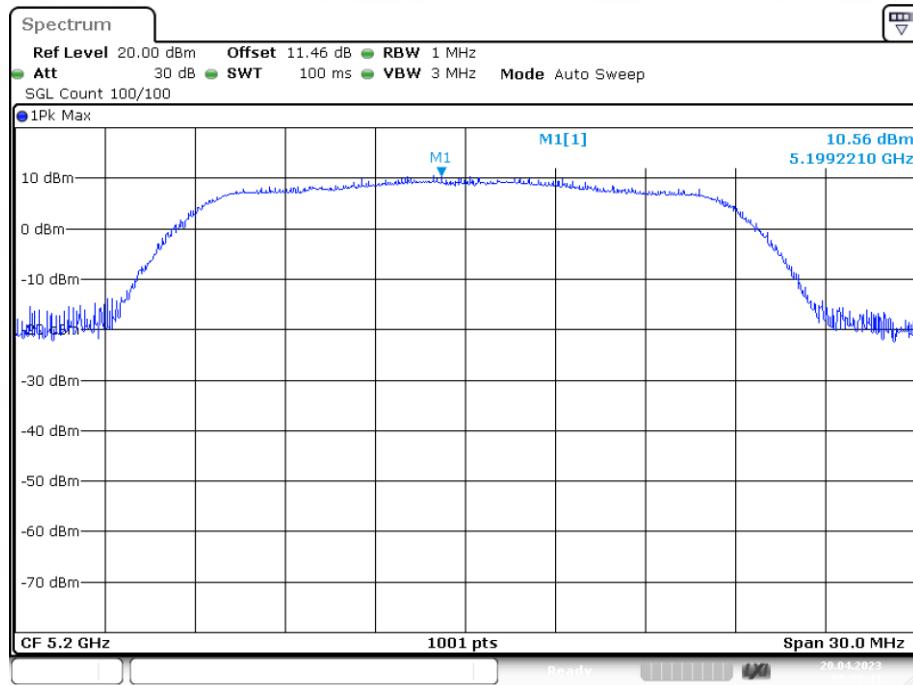
Test Requirement:	FCC Part15 E Section 15.407
Test Method:	KDB 789033 D02 General UNII Test Procedures New Rules v02r01
Limit:	$\leq 11.00 \text{dBm/MHz}$ for 5150MHz-5250MHz, 5250-5350MHz and 5470-5725 MHz $\leq 30.00 \text{dBm/500KHz}$ for 5725MHz-5850MHz
Test setup:	
Test procedure:	<ol style="list-style-type: none"> 1) Create an average power spectrum for the EUT operating mode being tested by following the instructions in section E2) for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". 2) Use the peak search function on the instrument to find the peak of the spectrum. 3) Make the following adjustments to the peak value of the spectrum, if applicable: <ol style="list-style-type: none"> a) If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum. b) If Method SA-3 Alternative was used and the linear mode was used in step E2)g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. 4) The result is the PSD.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data
Band 1 (5150 - 5250 MHz)

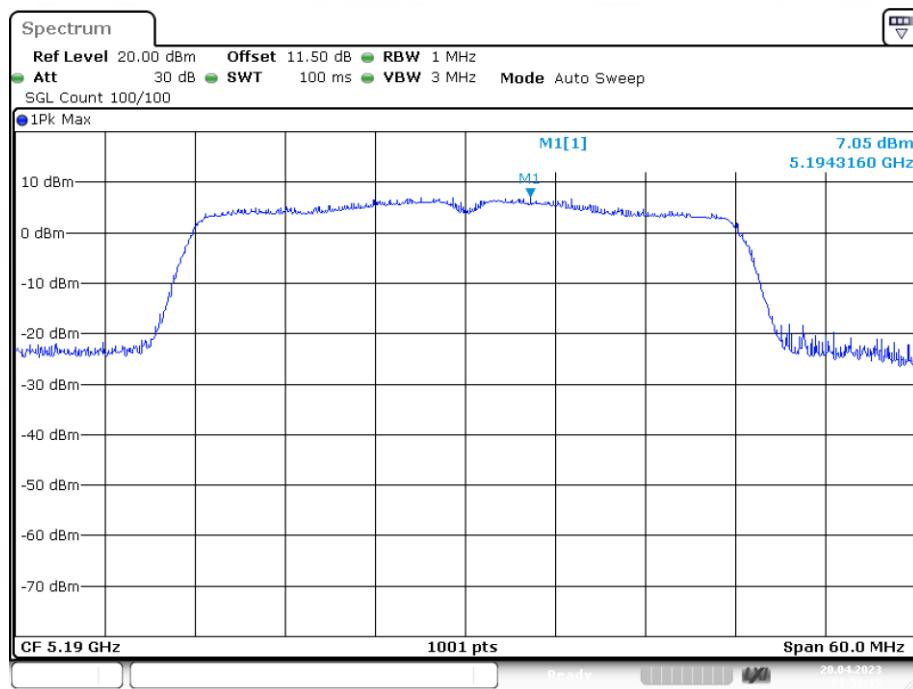
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	10.45	11	Pass
NVNT	a	5200	Ant1	9.904	11	Pass
NVNT	a	5240	Ant1	9.153	11	Pass
NVNT	ac20	5180	Ant1	10.928	11	Pass
NVNT	ac20	5200	Ant1	10.56	11	Pass
NVNT	ac20	5240	Ant1	9.69	11	Pass
NVNT	ac40	5190	Ant1	7.047	11	Pass
NVNT	ac40	5230	Ant1	6.234	11	Pass
NVNT	ac80	5210	Ant1	4.331	11	Pass
NVNT	n20	5180	Ant1	10.31	11	Pass
NVNT	n20	5200	Ant1	10.78	11	Pass
NVNT	n20	5240	Ant1	10.222	11	Pass
NVNT	n40	5190	Ant1	7.945	11	Pass
NVNT	n40	5230	Ant1	6.521	11	Pass

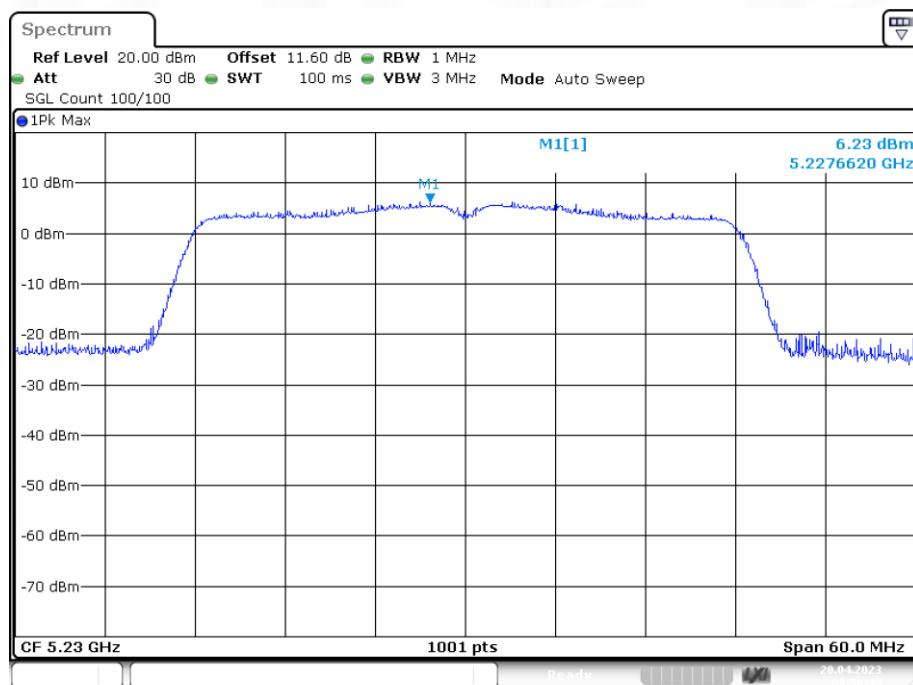
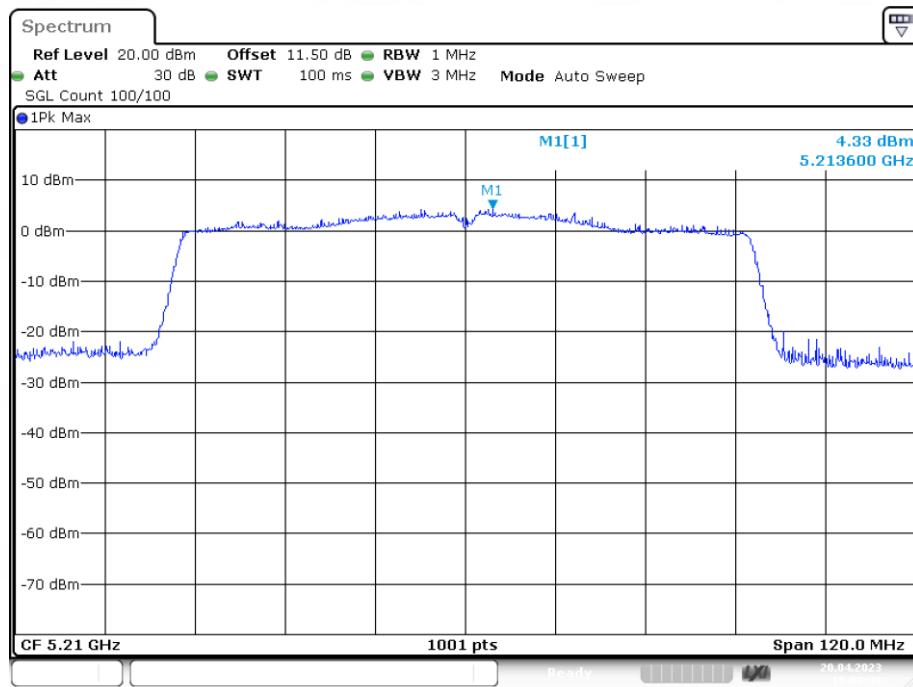
PSD NVNT a 5180MHz Ant1


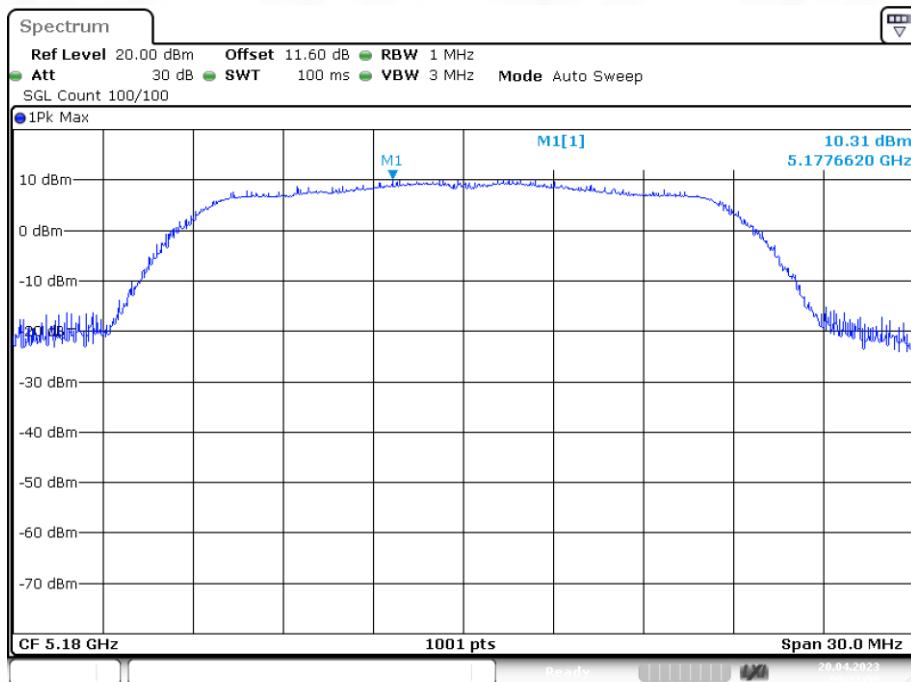
PSD NVNT a 5200MHz Ant1

PSD NVNT a 5240MHz Ant1


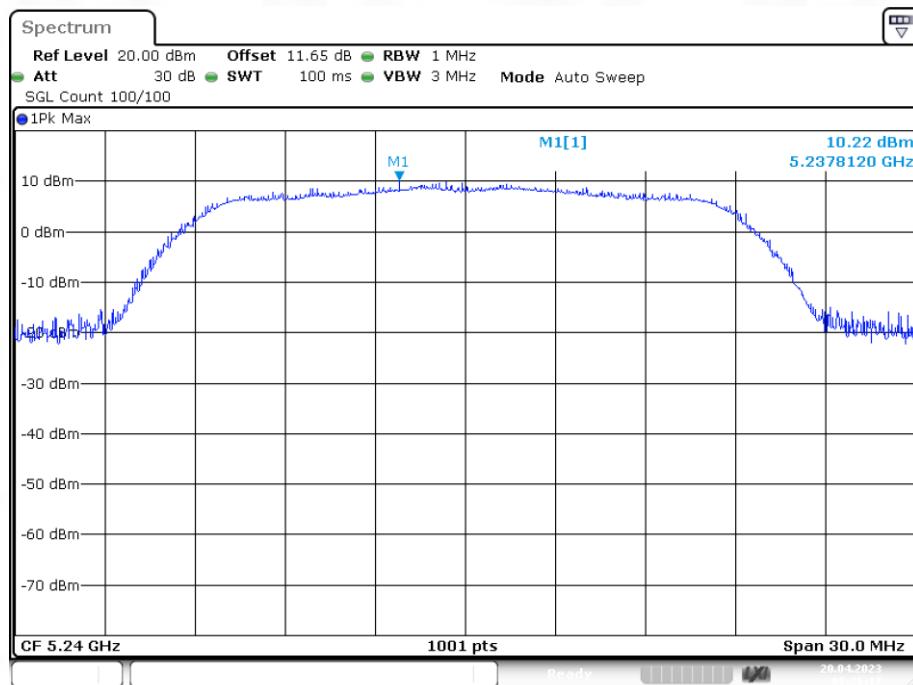
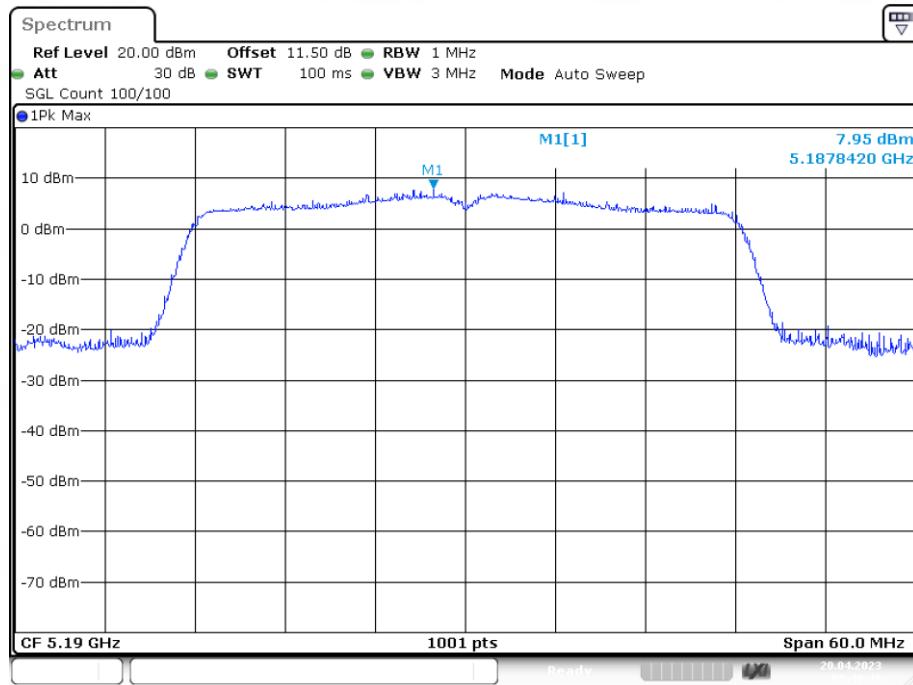
PSD NVNT ac20 5180MHz Ant1

PSD NVNT ac20 5200MHz Ant1


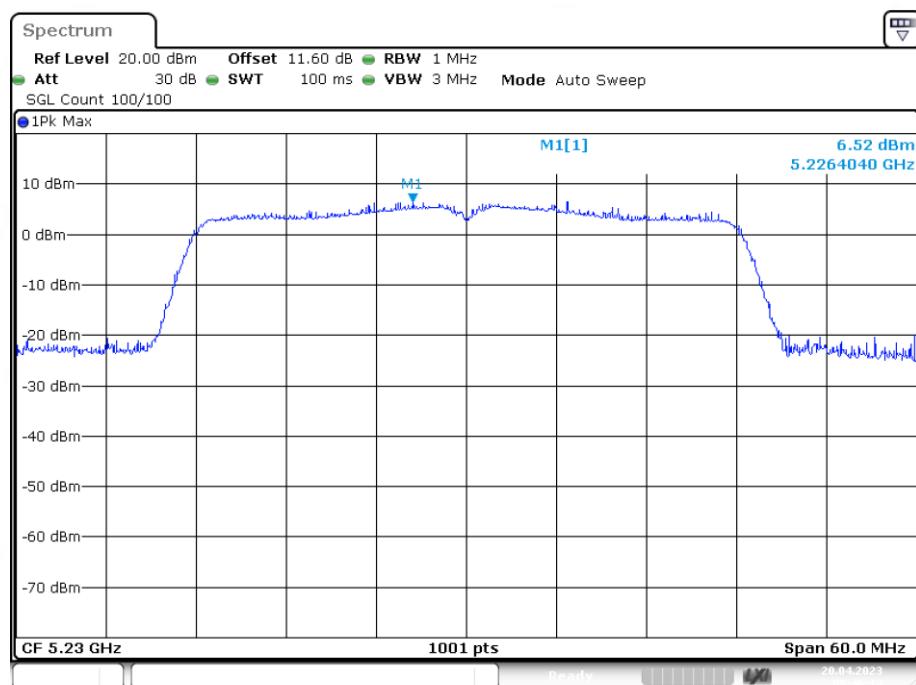
PSD NVNT ac20 5240MHz Ant1

PSD NVNT ac40 5190MHz Ant1


PSD NVNT ac40 5230MHz Ant1

PSD NVNT ac80 5210MHz Ant1


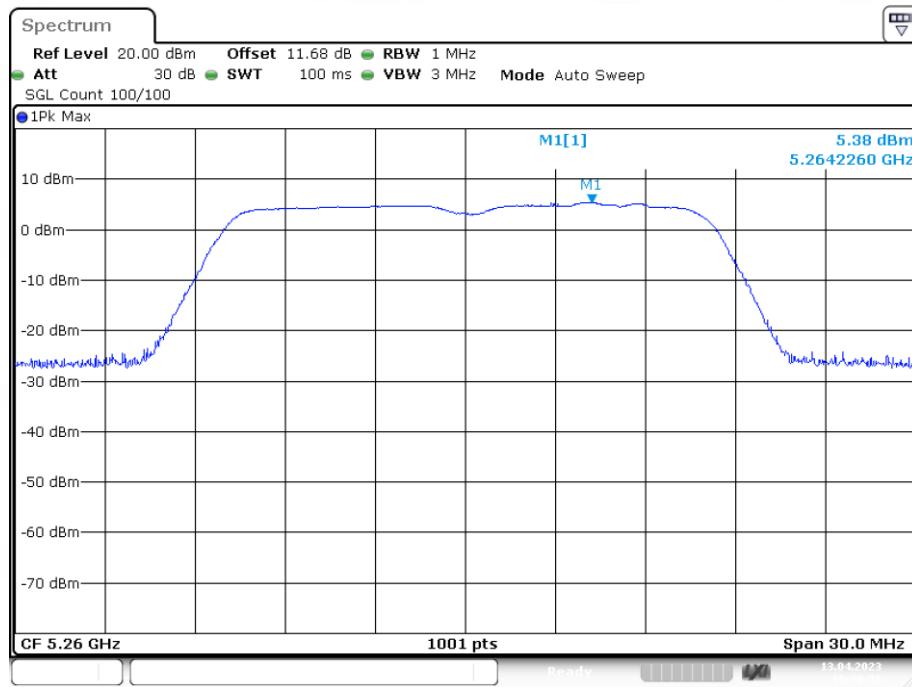
PSD NVNT n20 5180MHz Ant1

PSD NVNT n20 5200MHz Ant1

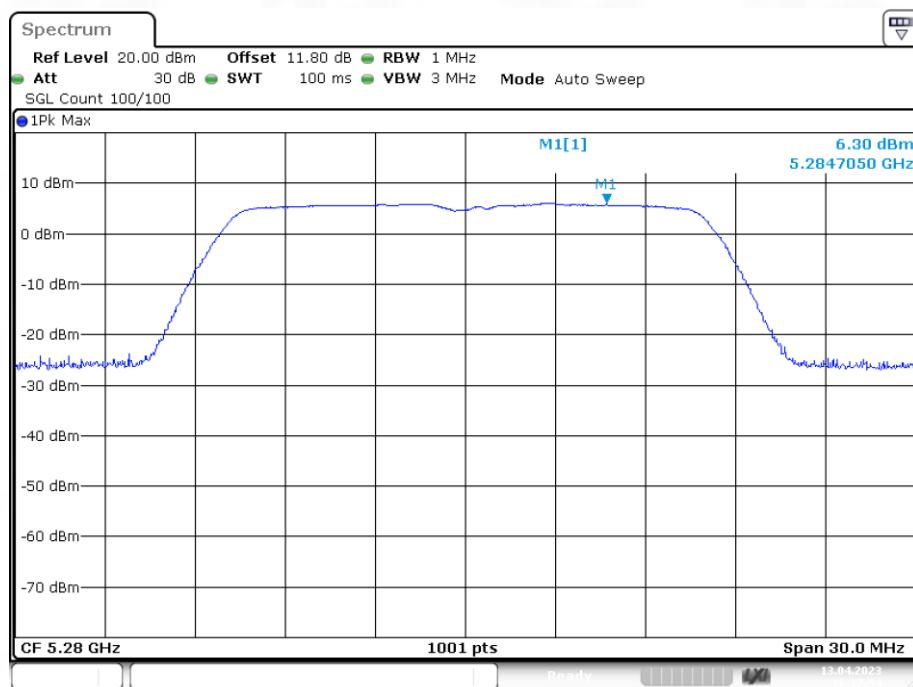
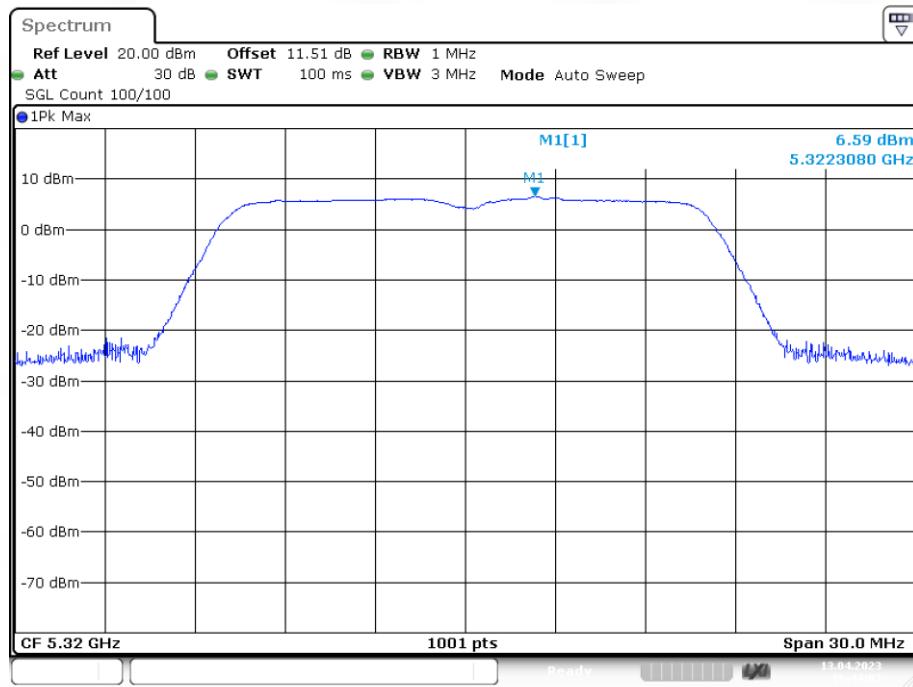

PSD NVNT n20 5240MHz Ant1

PSD NVNT n40 5190MHz Ant1

PSD NVNT n40 5230MHz Ant1

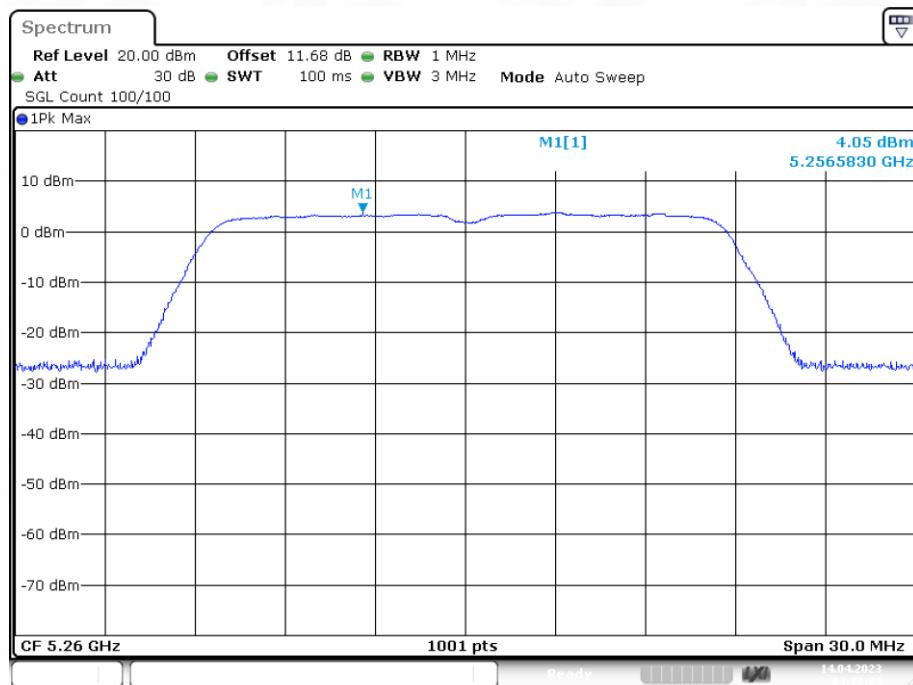
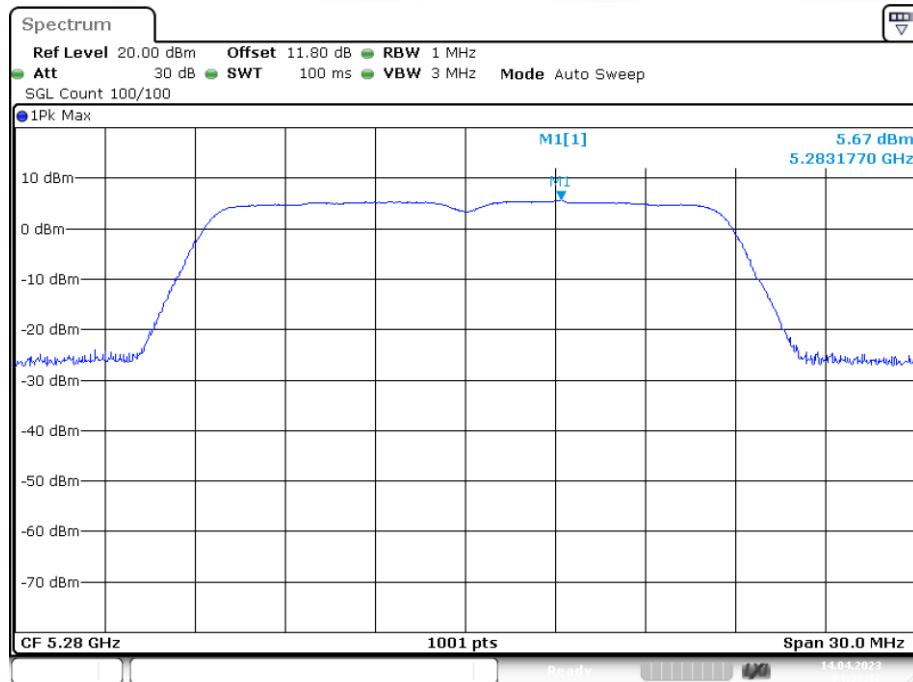


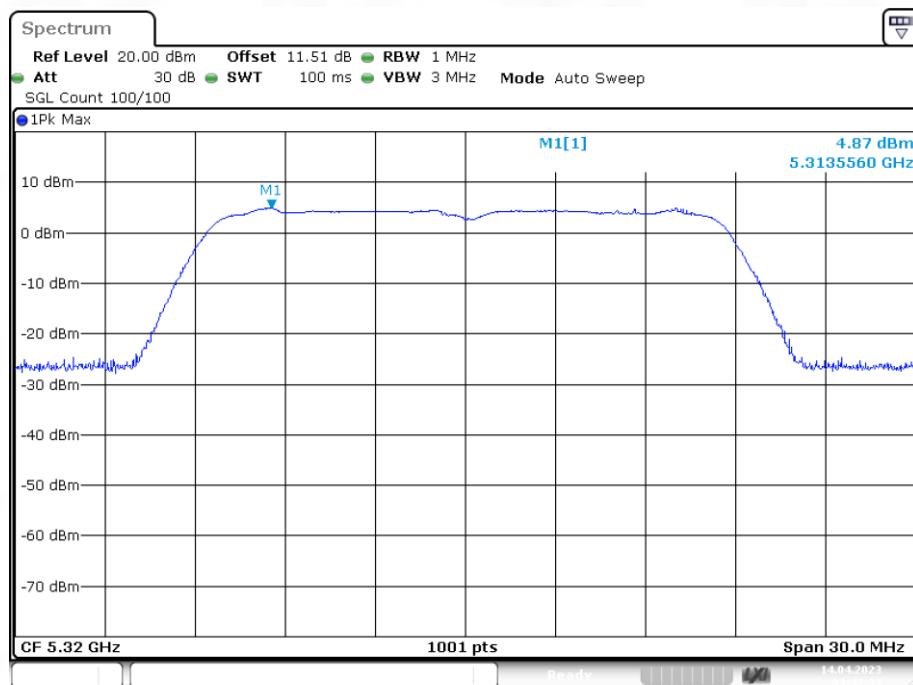
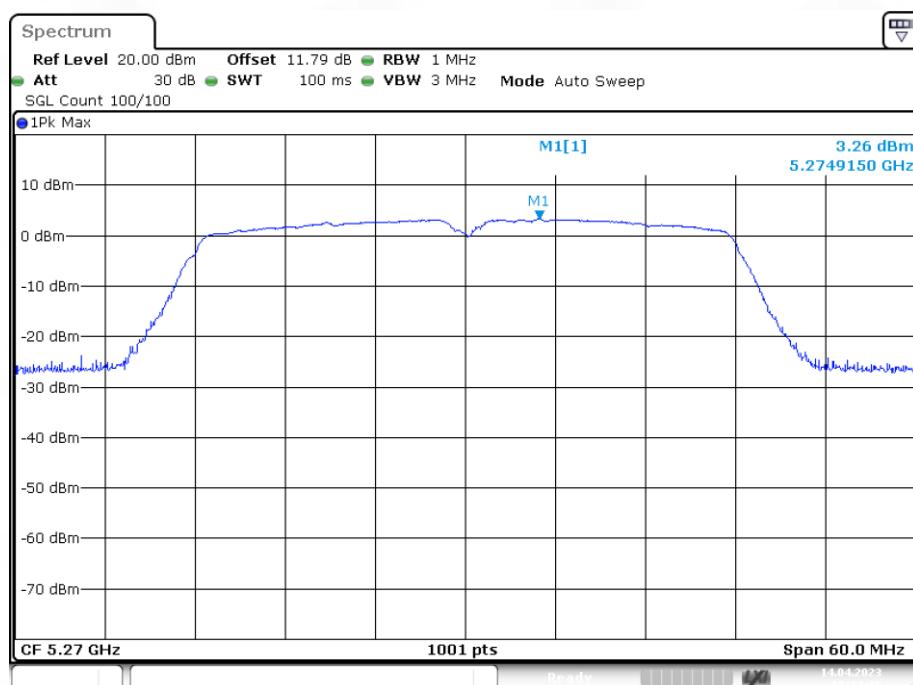
Band 2 (5250 -5350 MHz)

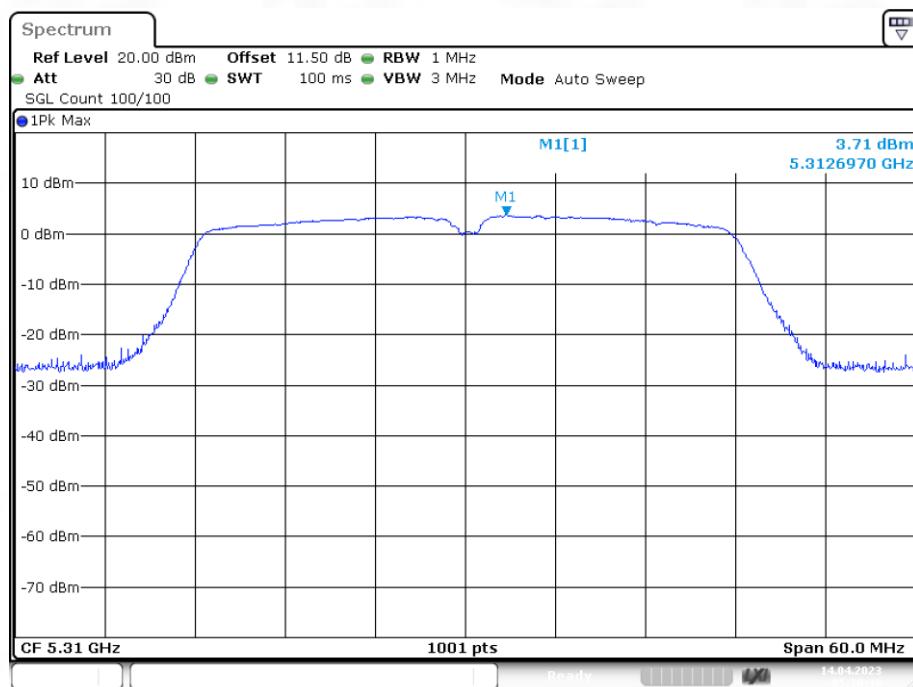
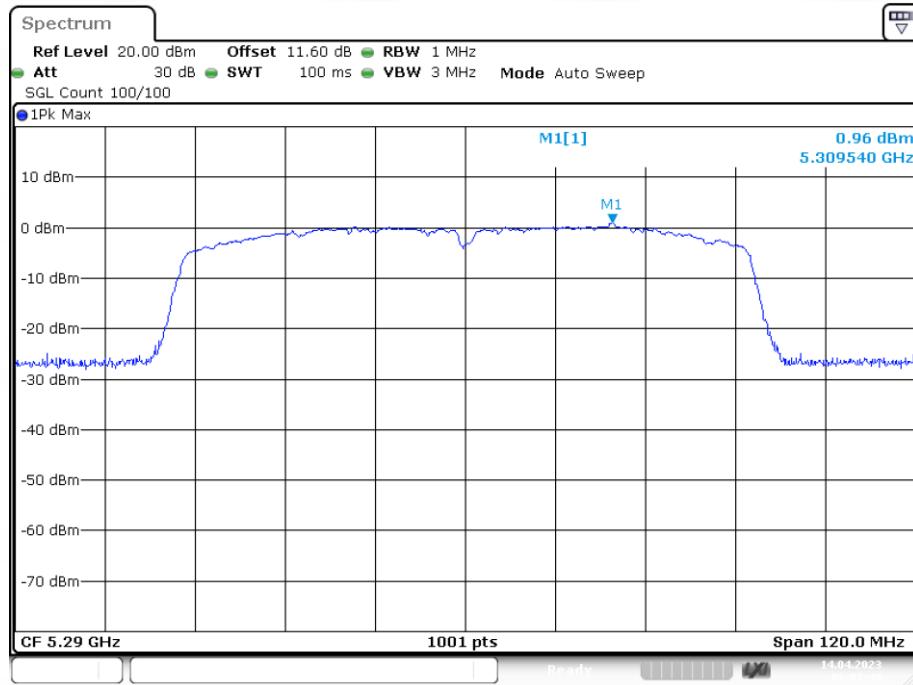
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	5.377	11	Pass
NVNT	a	5280	Ant1	6.295	11	Pass
NVNT	a	5320	Ant1	6.59	11	Pass
NVNT	ac20	5260	Ant1	4.052	11	Pass
NVNT	ac20	5280	Ant1	5.667	11	Pass
NVNT	ac20	5320	Ant1	4.868	11	Pass
NVNT	ac40	5270	Ant1	3.263	11	Pass
NVNT	ac40	5310	Ant1	3.707	11	Pass
NVNT	ac80	5290	Ant1	0.956	11	Pass
NVNT	n20	5260	Ant1	5.426	11	Pass
NVNT	n20	5280	Ant1	5.67	11	Pass
NVNT	n20	5320	Ant1	6.389	11	Pass
NVNT	n40	5270	Ant1	3.134	11	Pass
NVNT	n40	5310	Ant1	2.792	11	Pass

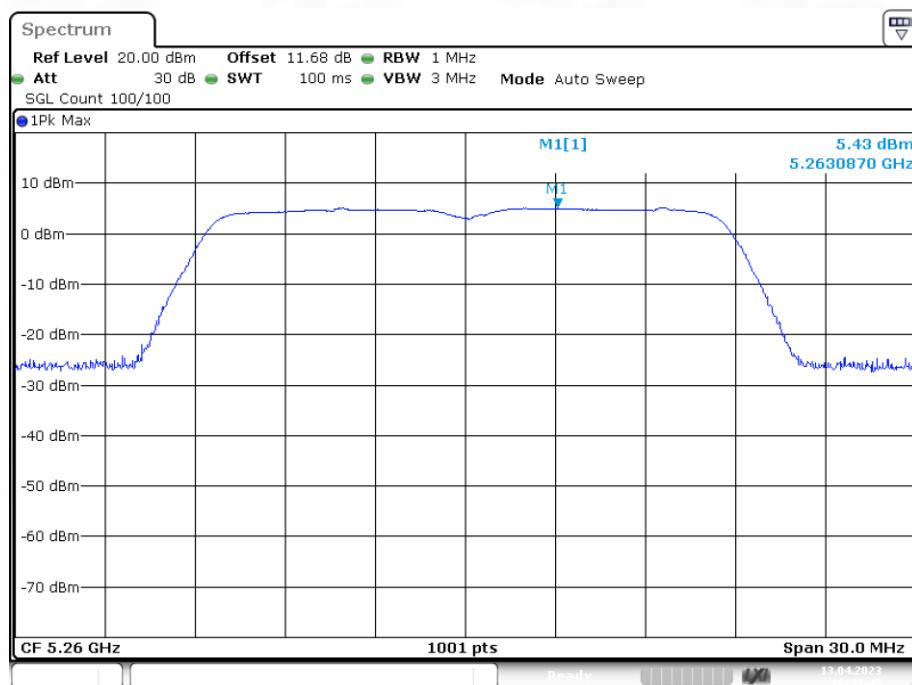
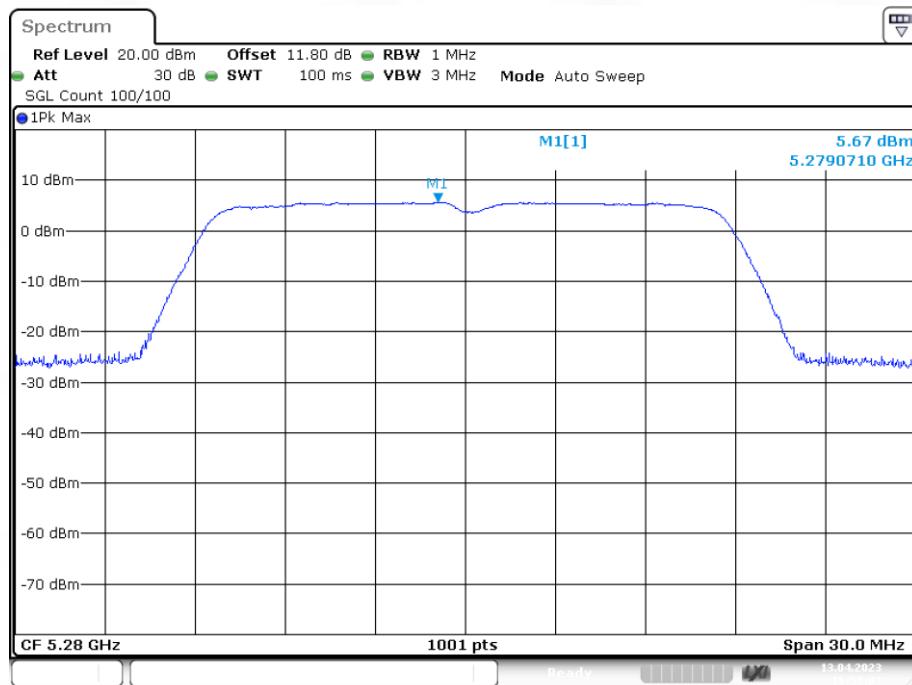
PSD NVNT a 5260MHz Ant1


PSD NVNT a 5280MHz Ant1

PSD NVNT a 5320MHz Ant1


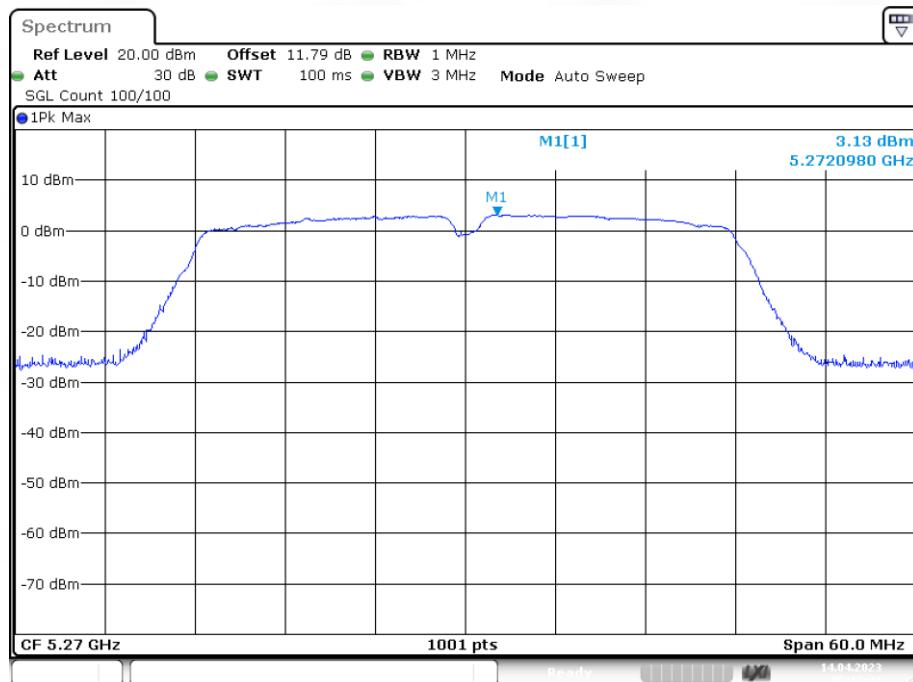
PSD NVNT ac20 5260MHz Ant1

PSD NVNT ac20 5280MHz Ant1


PSD NVNT ac20 5320MHz Ant1

PSD NVNT ac40 5270MHz Ant1


PSD NVNT ac40 5310MHz Ant1

PSD NVNT ac80 5290MHz Ant1


PSD NVNT n20 5260MHz Ant1

PSD NVNT n20 5280MHz Ant1


PSD NVNT n20 5320MHz Ant1

PSD NVNT n40 5270MHz Ant1


PSD NVNT n40 5310MHz Ant1

