



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: VIDEO PROJECTOR

Test Model: H10

Environmental Conditions

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



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D.1 -26dB Bandwidth

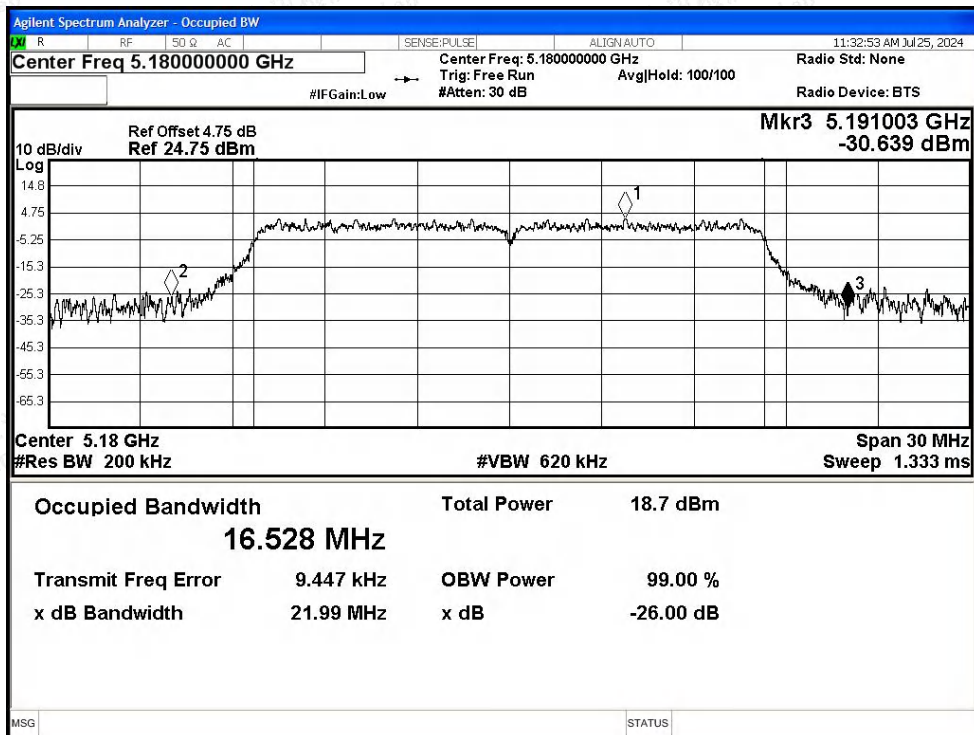
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	21.987	≥ 0.5	Pass
NVNT	a	5200	Ant0	25.211	≥ 0.5	Pass
NVNT	a	5240	Ant0	21.354	≥ 0.5	Pass
NVNT	n20	5180	Ant0	25.905	≥ 0.5	Pass
NVNT	n20	5200	Ant0	23.42	≥ 0.5	Pass
NVNT	n20	5240	Ant0	26.221	≥ 0.5	Pass
NVNT	n40	5190	Ant0	47.794	≥ 0.5	Pass
NVNT	n40	5230	Ant0	42.316	≥ 0.5	Pass
NVNT	ac20	5180	Ant0	27.031	≥ 0.5	Pass
NVNT	ac20	5200	Ant0	26.478	≥ 0.5	Pass
NVNT	ac20	5240	Ant0	26.057	≥ 0.5	Pass
NVNT	ac40	5190	Ant0	42.334	≥ 0.5	Pass
NVNT	ac40	5230	Ant0	49.079	≥ 0.5	Pass
NVNT	ac80	5210	Ant0	81.1	≥ 0.5	Pass



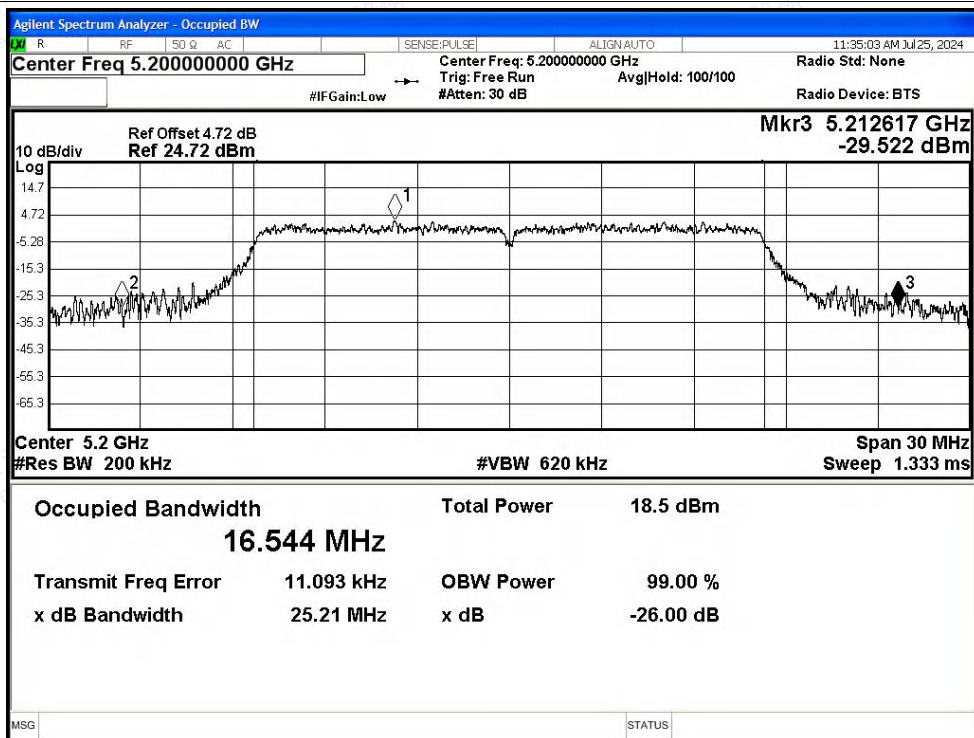


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5200MHz Ant0



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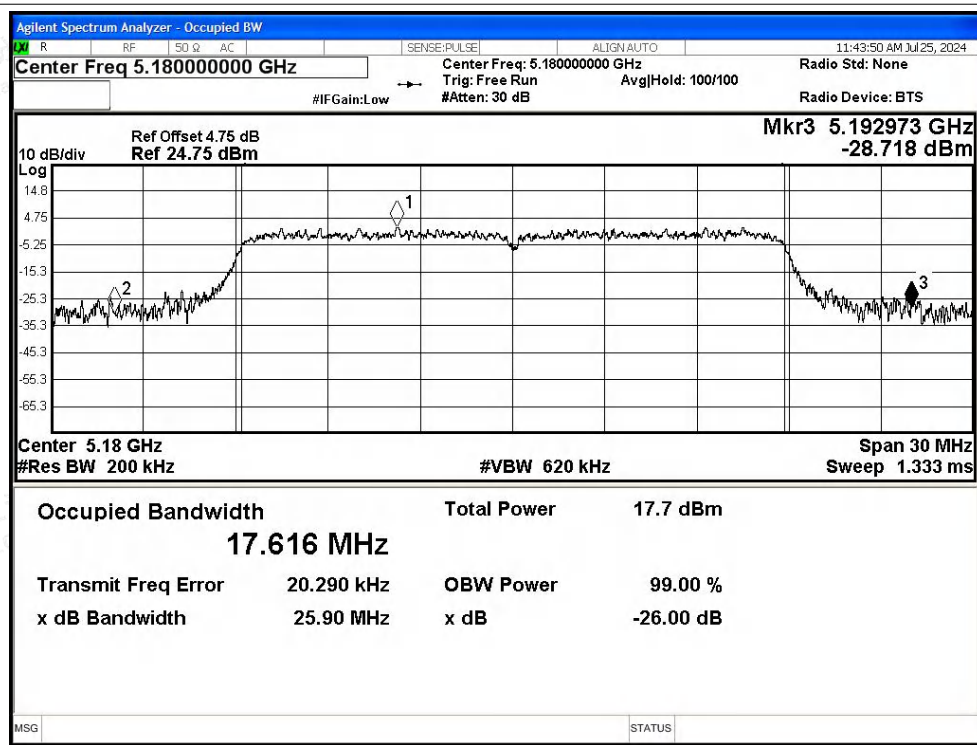
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-26dB Bandwidth NVNT a 5240MHz Ant0



-26dB Bandwidth NVNT n20 5180MHz Ant0



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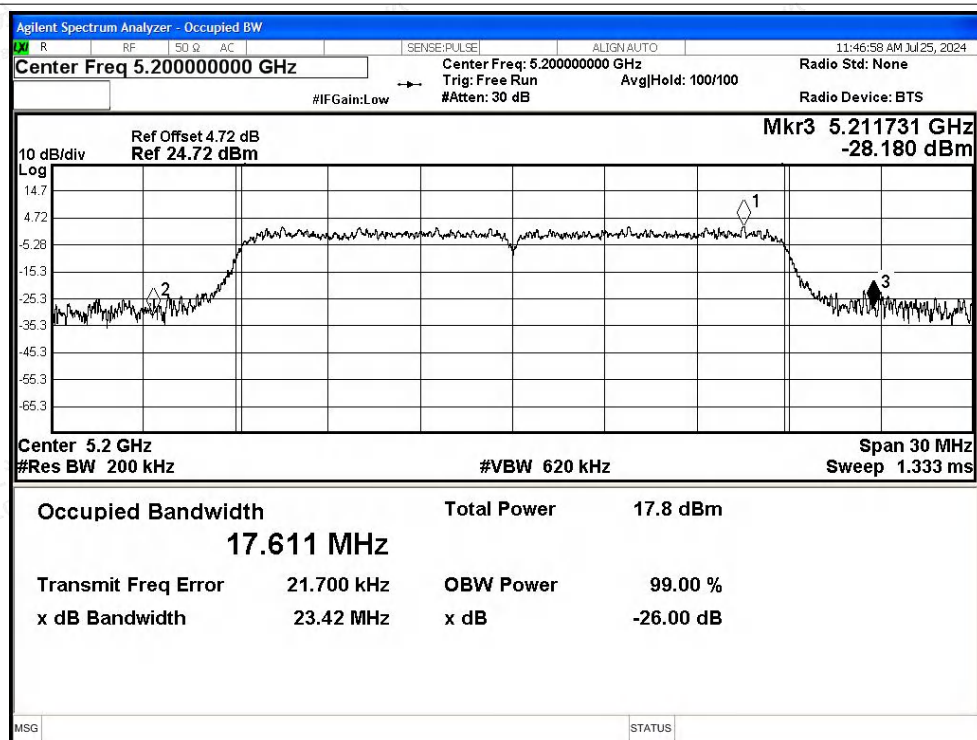
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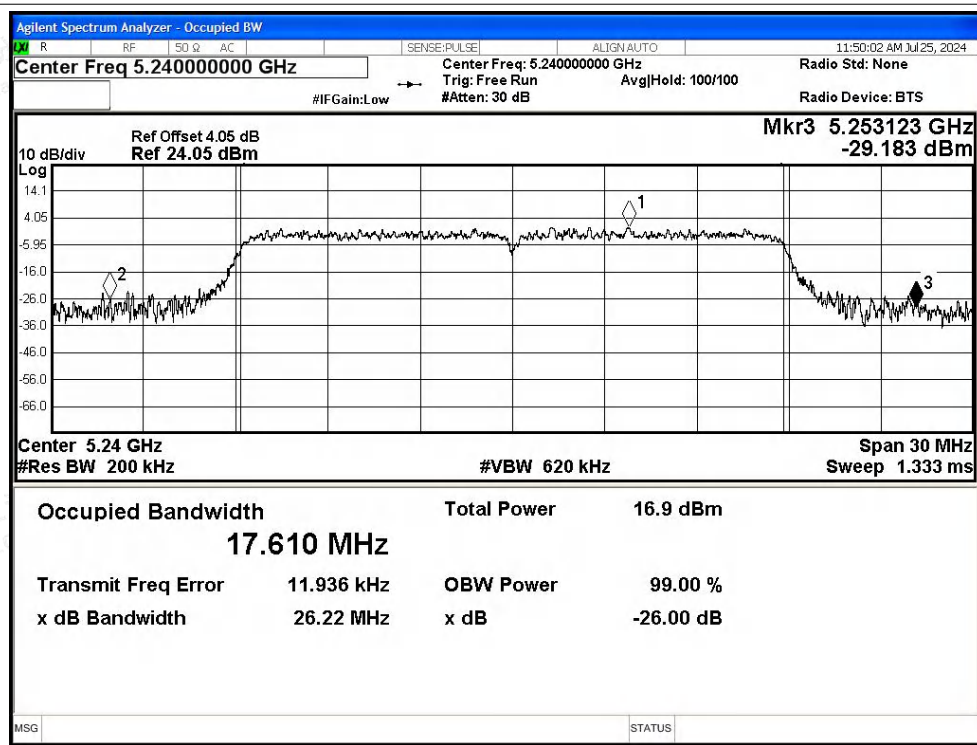
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-26dB Bandwidth NVNT n20 5200MHz Ant0



-26dB Bandwidth NVNT n20 5240MHz Ant0



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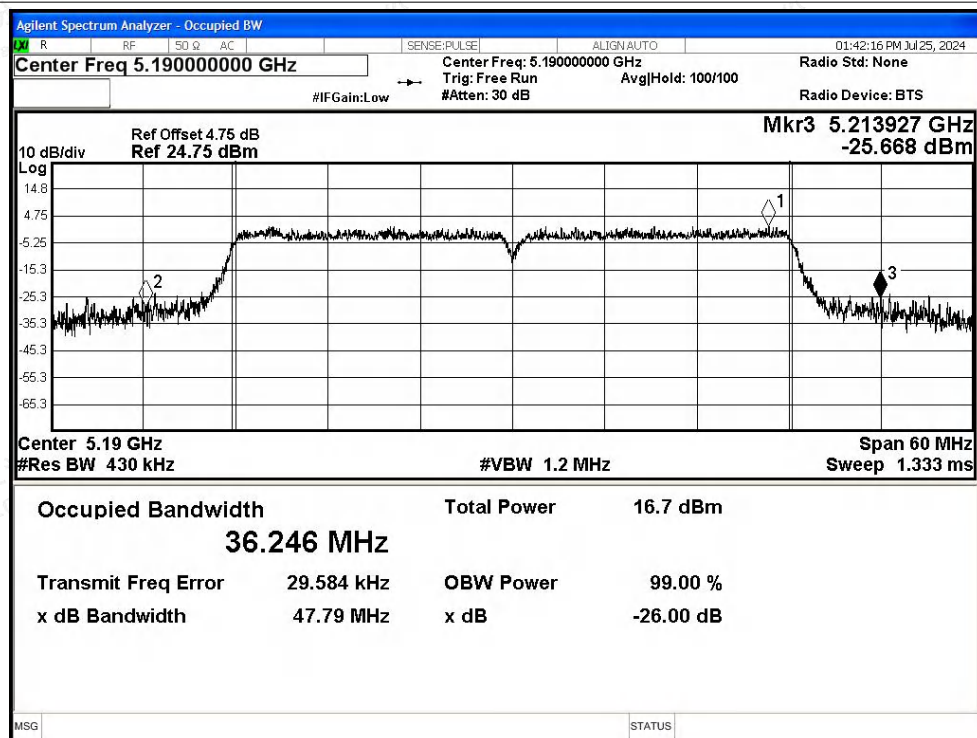
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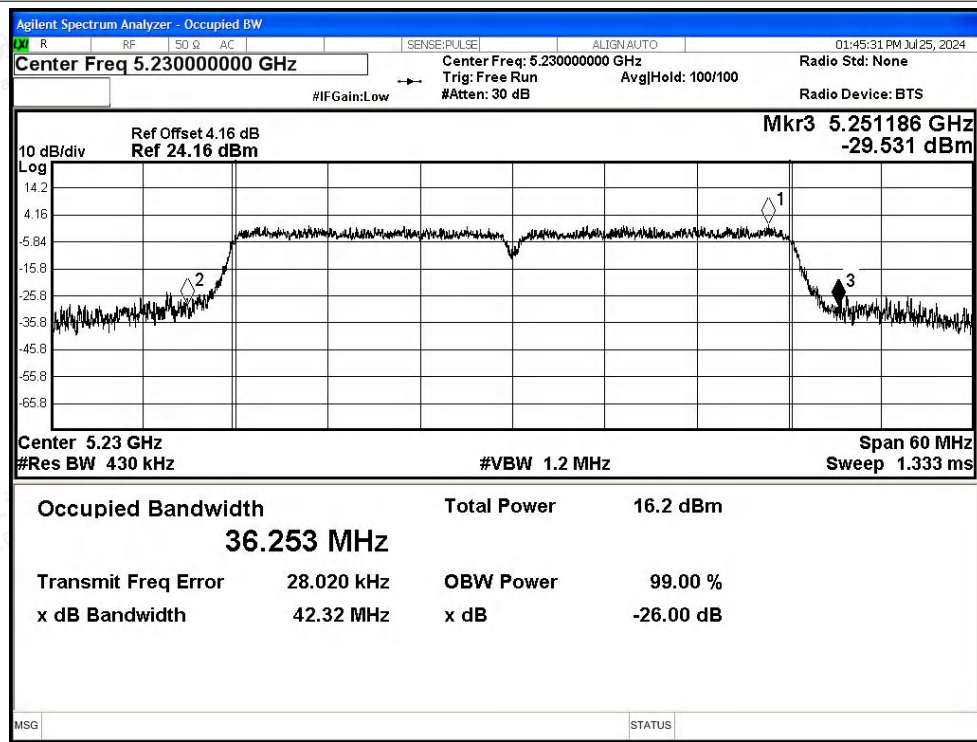
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-26dB Bandwidth NVNT n40 5190MHz Ant0

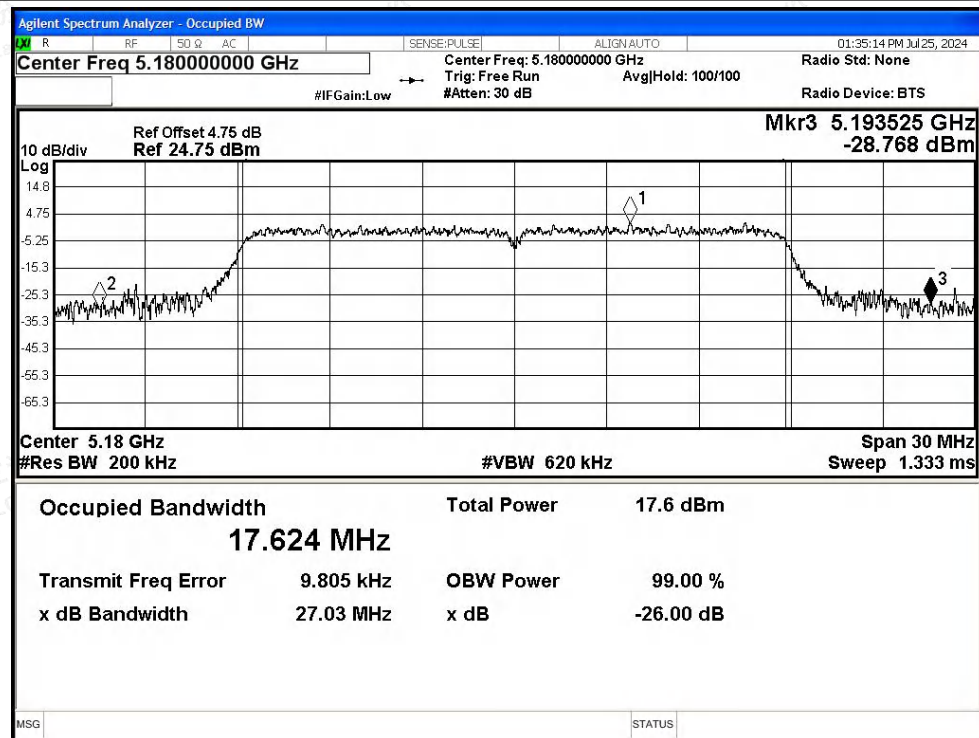


-26dB Bandwidth NVNT n40 5230MHz Ant0

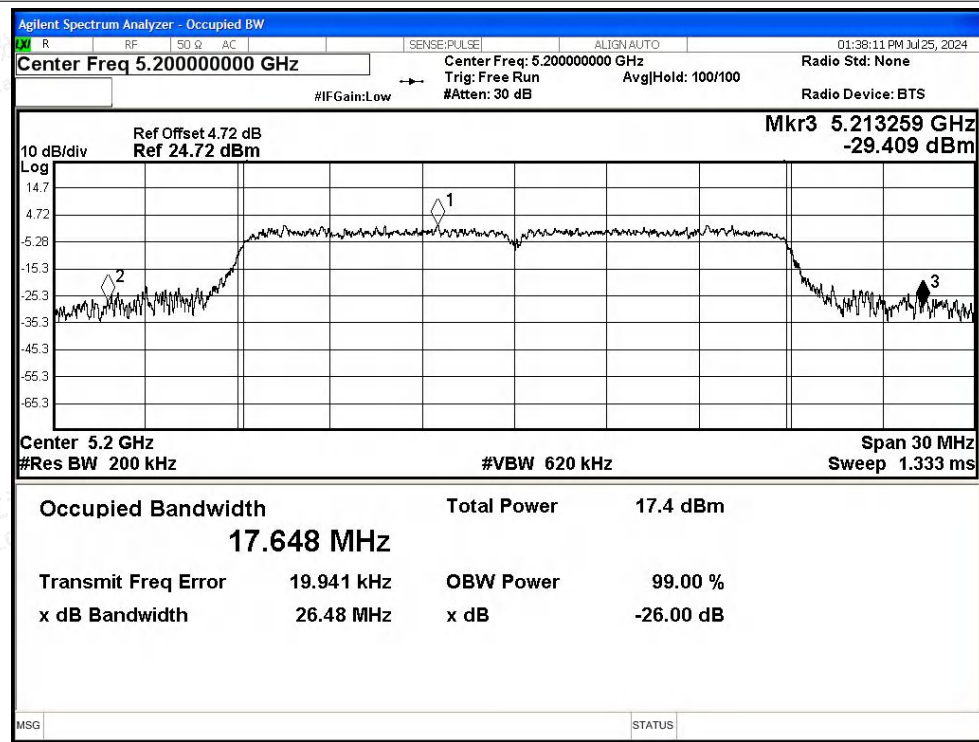




-26dB Bandwidth NVNT ac20 5180MHz Ant0



-26dB Bandwidth NVNT ac20 5200MHz Ant0



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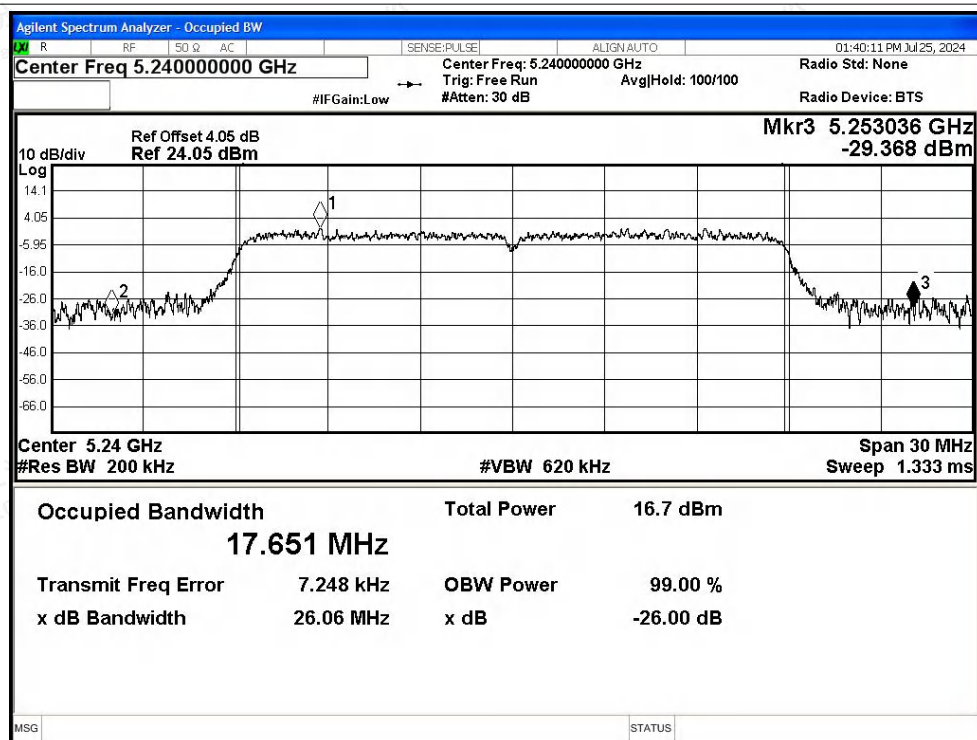
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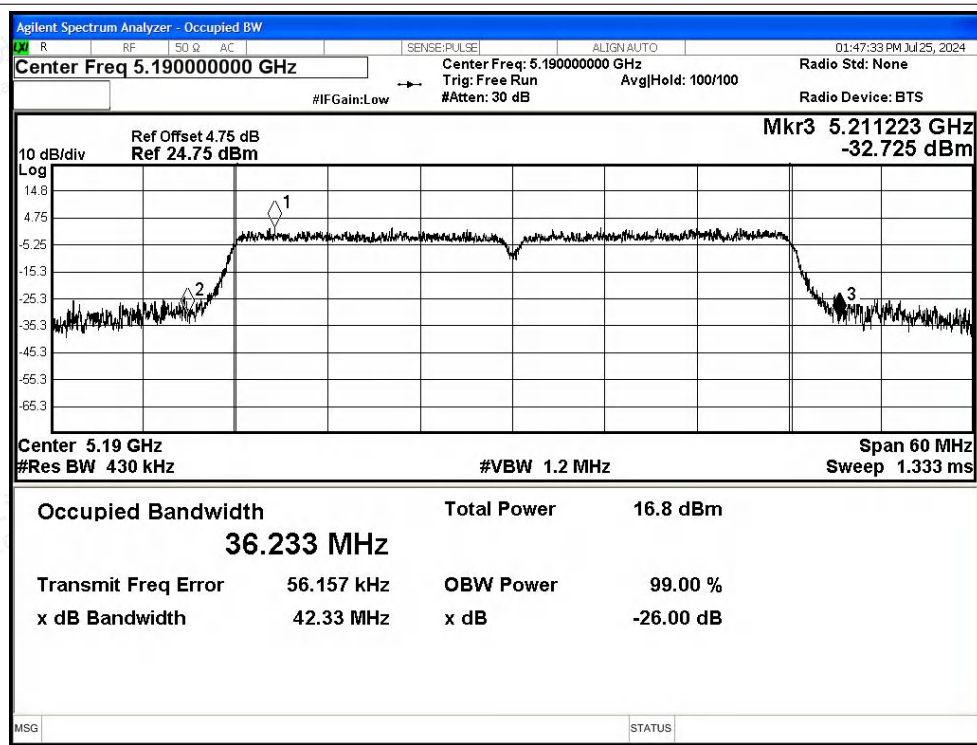
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-26dB Bandwidth NVNT ac20 5240MHz Ant0

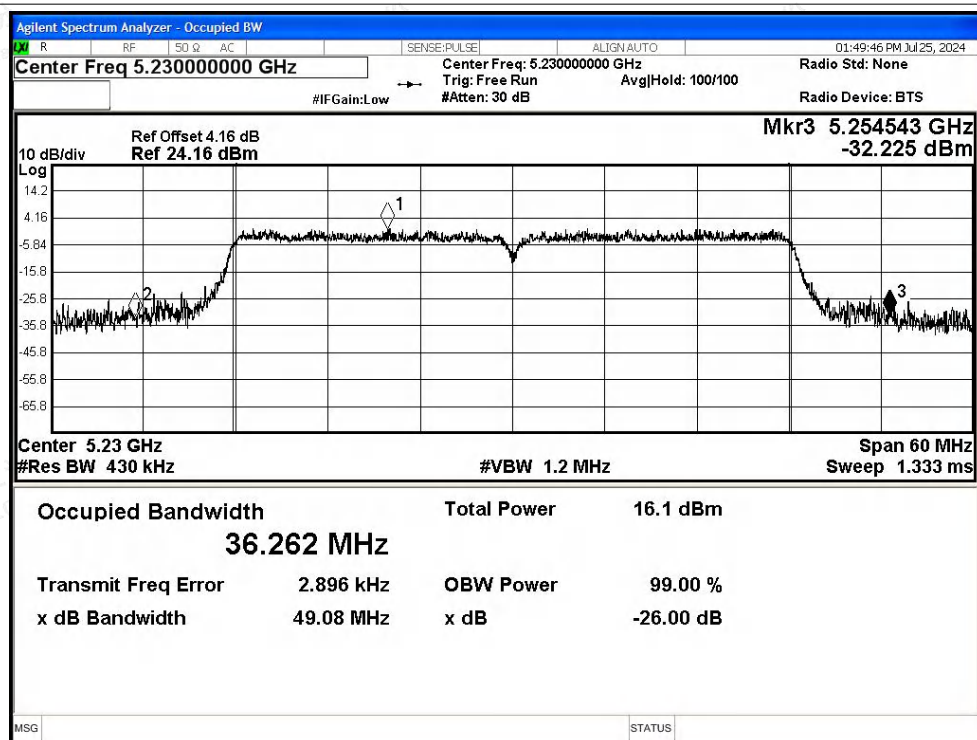


-26dB Bandwidth NVNT ac40 5190MHz Ant0

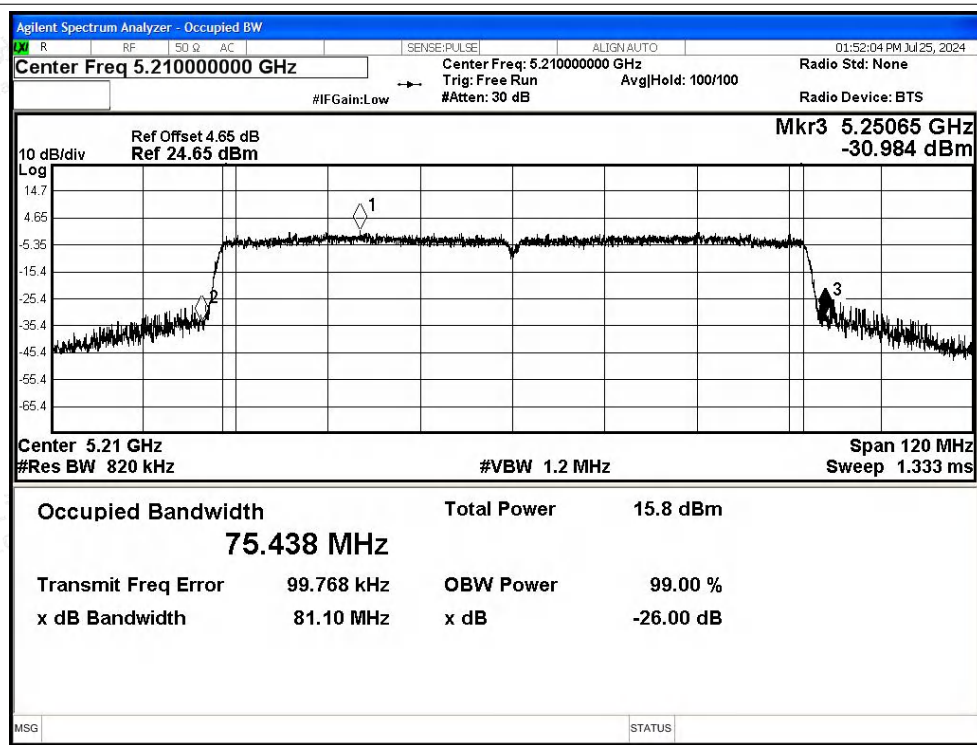




-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0



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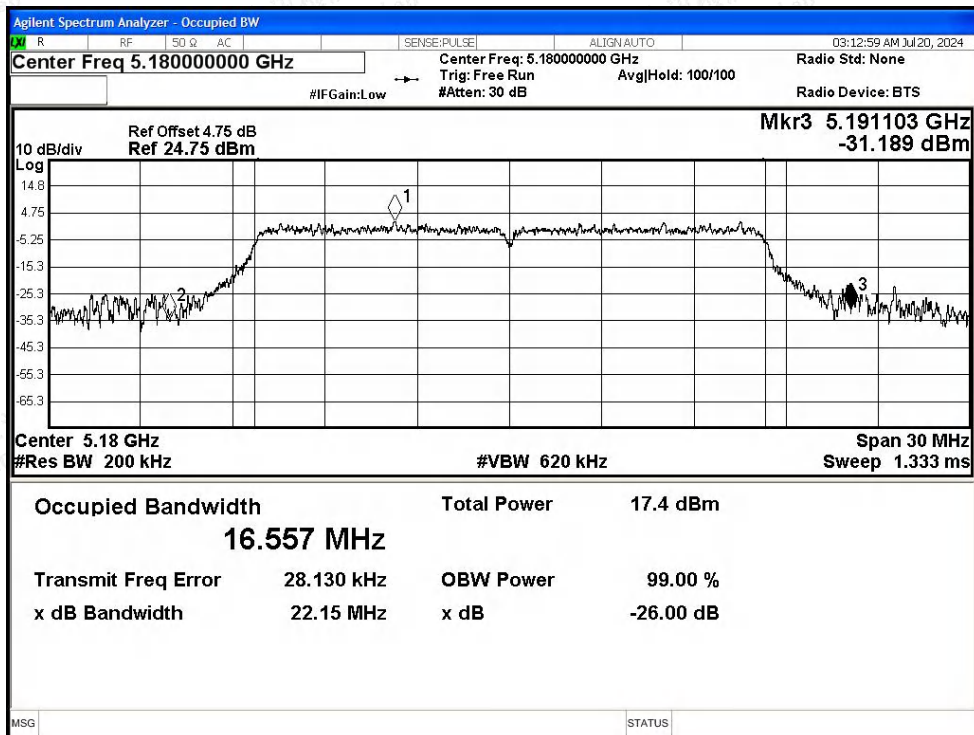
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.15	≥ 0.5	Pass
NVNT	a	5200	Ant1	21.882	≥ 0.5	Pass
NVNT	a	5240	Ant1	24.484	≥ 0.5	Pass
NVNT	n20	5180	Ant1	26.142	≥ 0.5	Pass
NVNT	n20	5200	Ant1	24.172	≥ 0.5	Pass
NVNT	n20	5240	Ant1	26.774	≥ 0.5	Pass
NVNT	n40	5190	Ant1	43.401	≥ 0.5	Pass
NVNT	n40	5230	Ant1	45.263	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	26.458	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	28.789	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	27.729	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	45.911	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	46.238	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	80.677	≥ 0.5	Pass



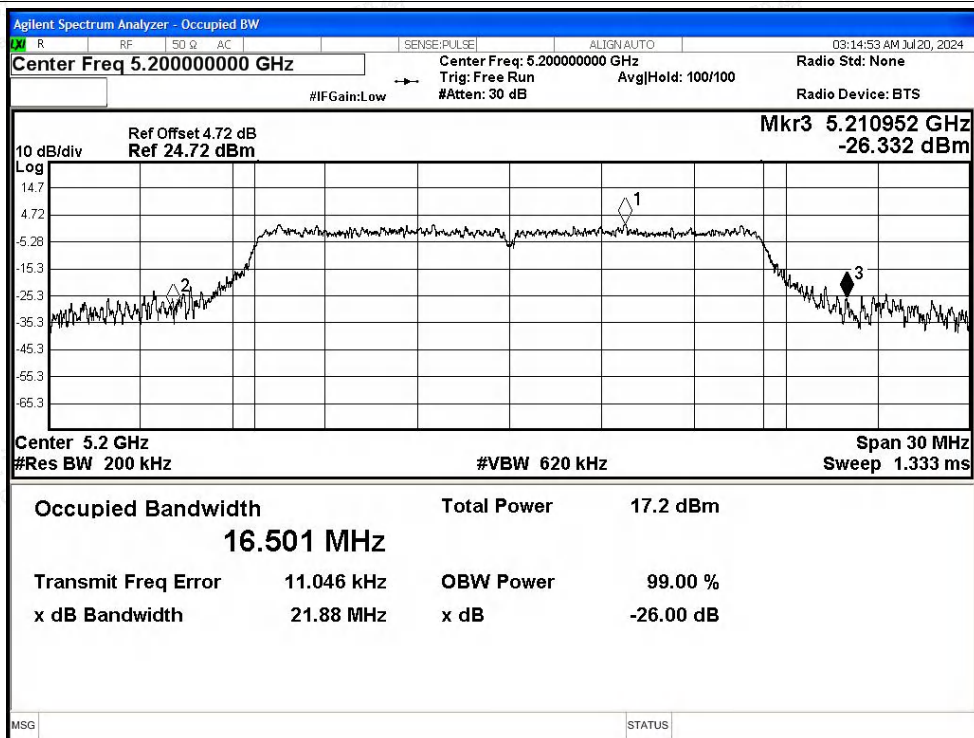


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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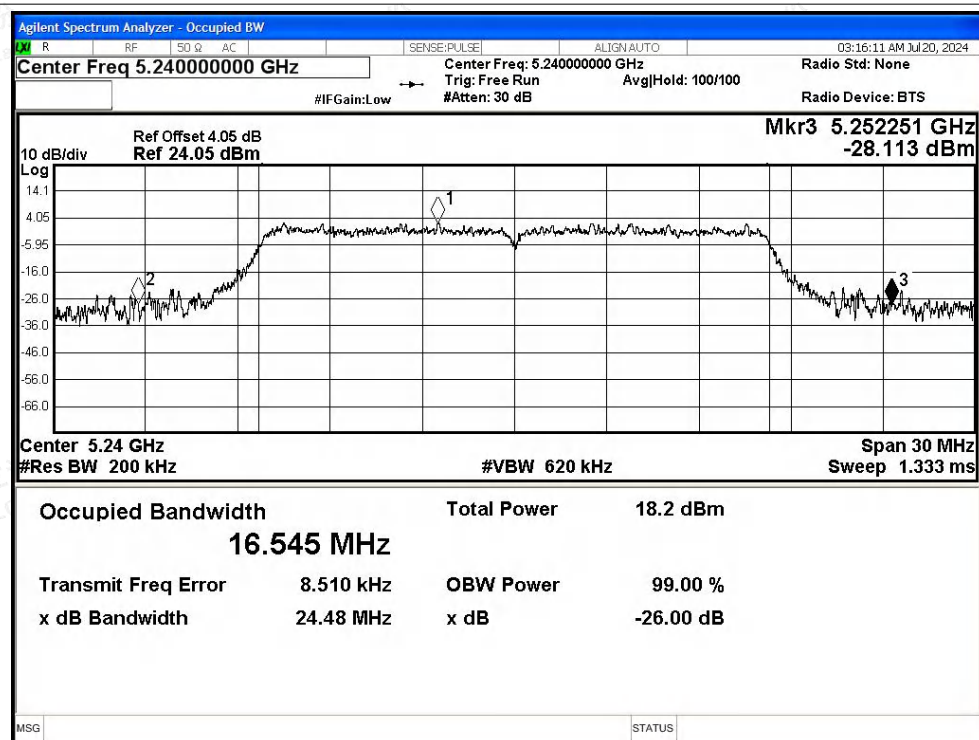
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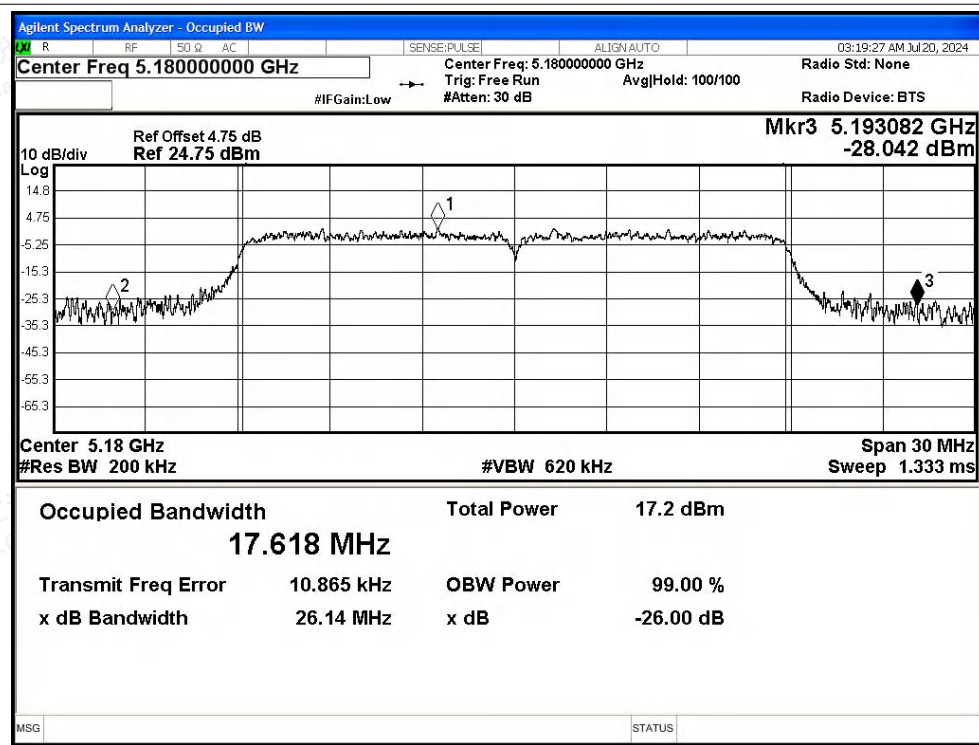
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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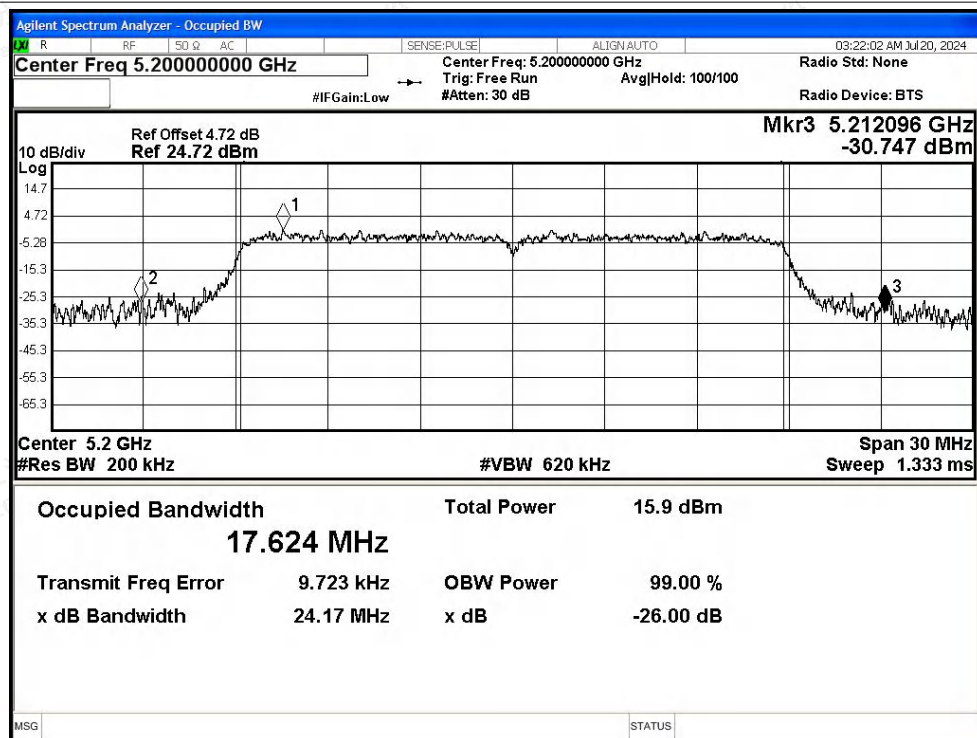
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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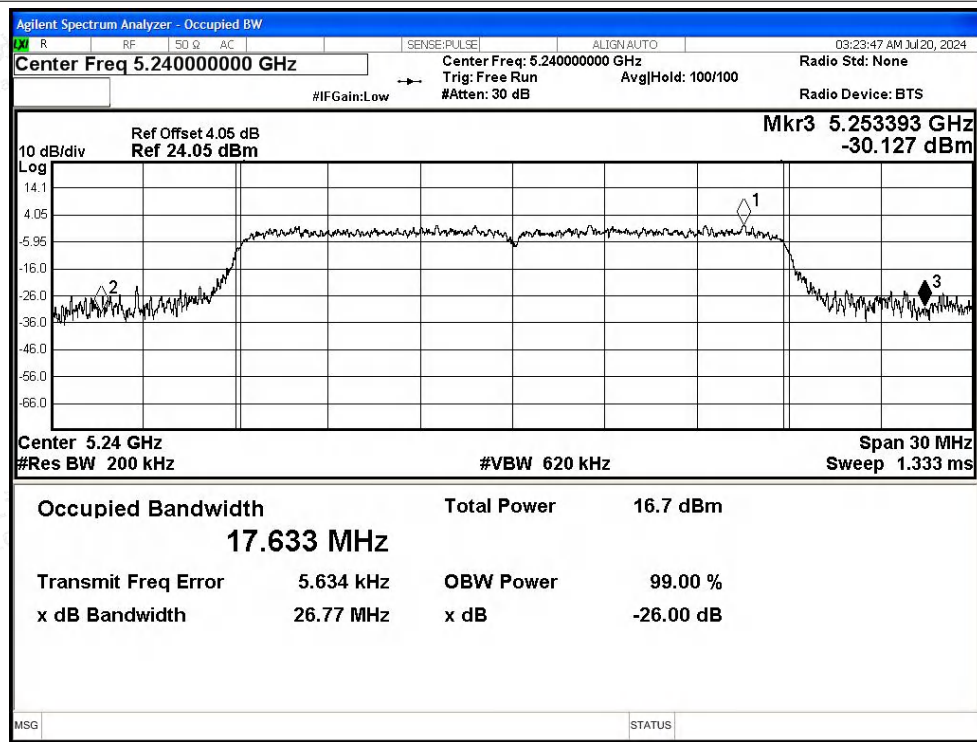
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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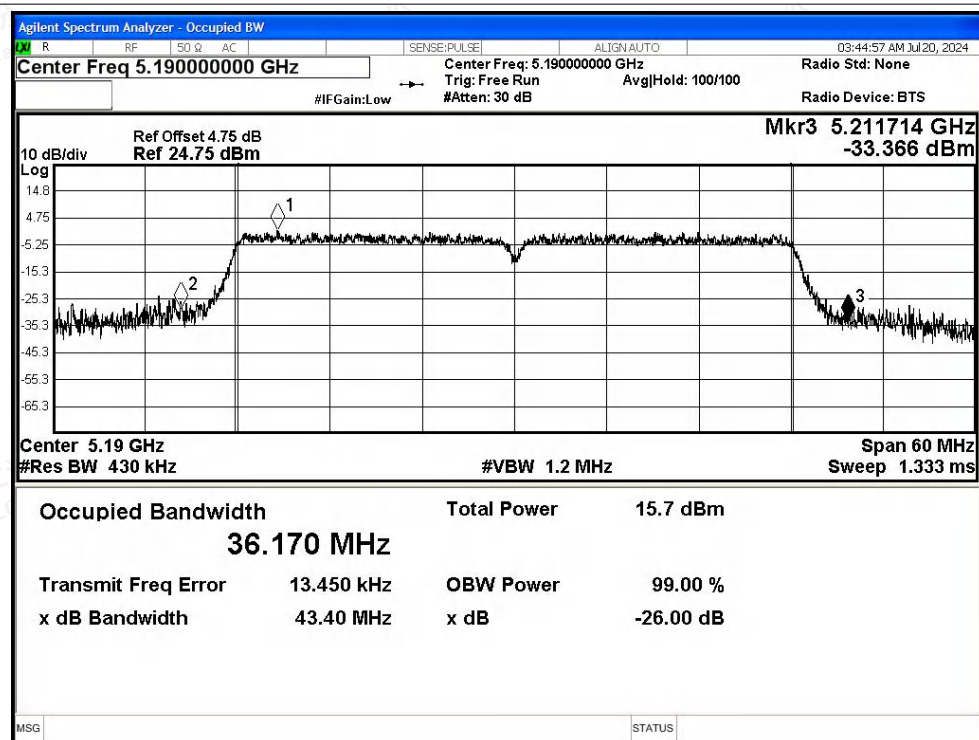
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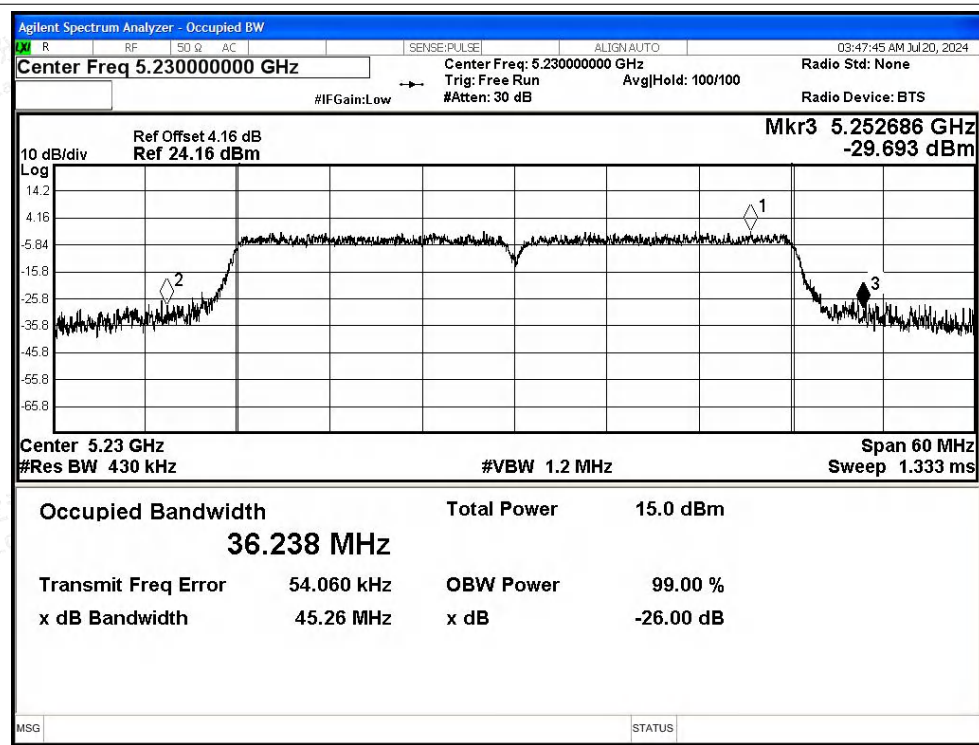
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-26dB Bandwidth NVNT n40 5190MHz Ant1

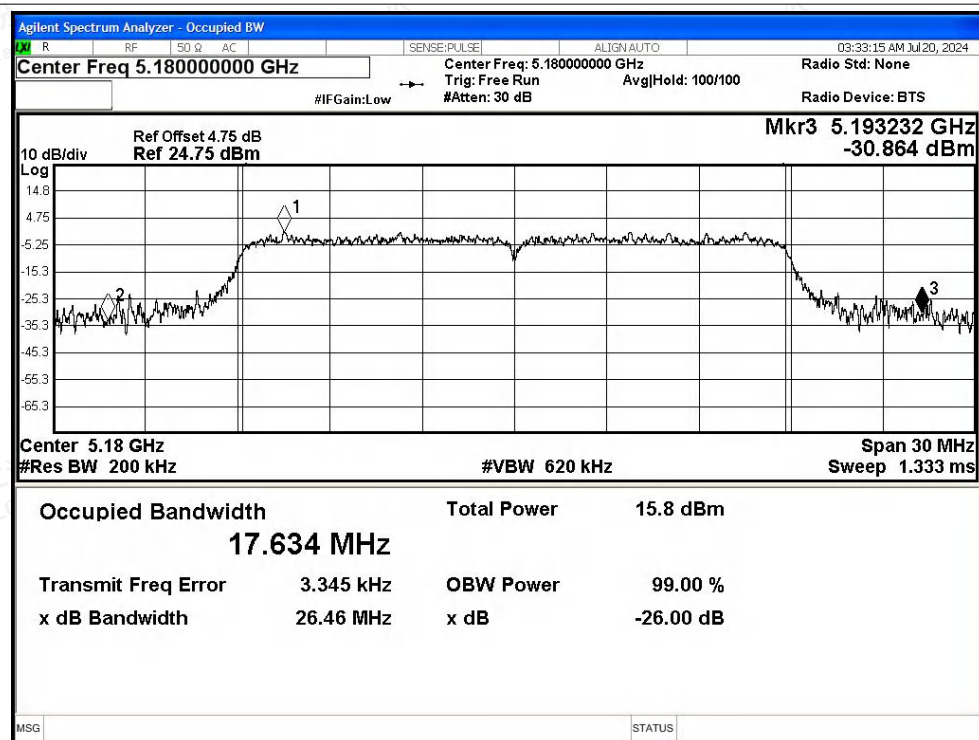


-26dB Bandwidth NVNT n40 5230MHz Ant1

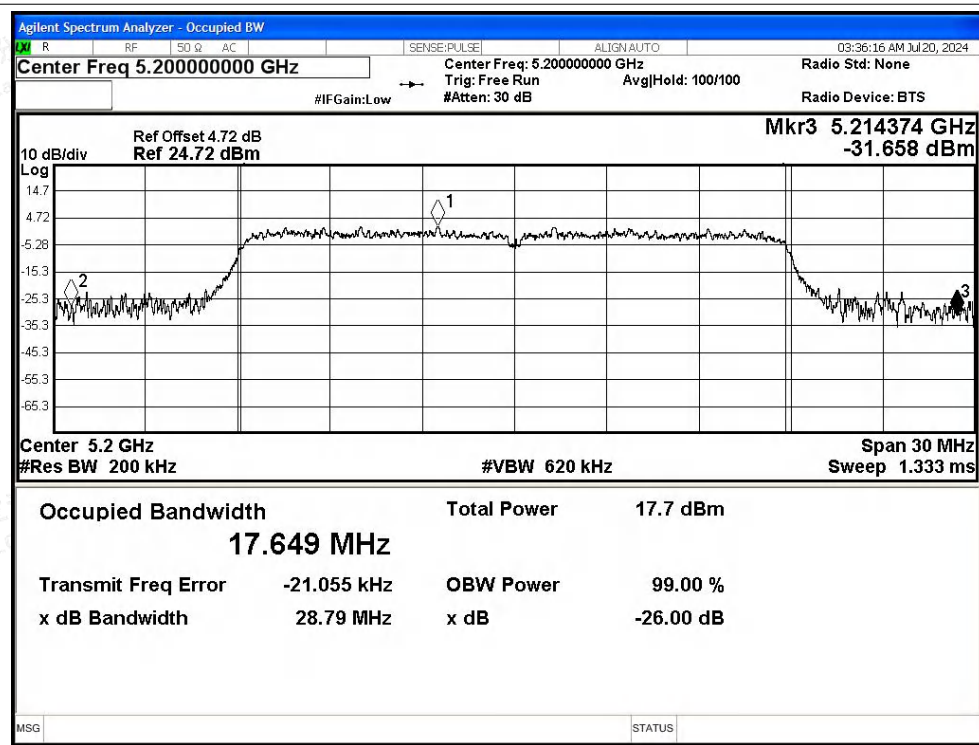




-26dB Bandwidth NVNT ac20 5180MHz Ant1

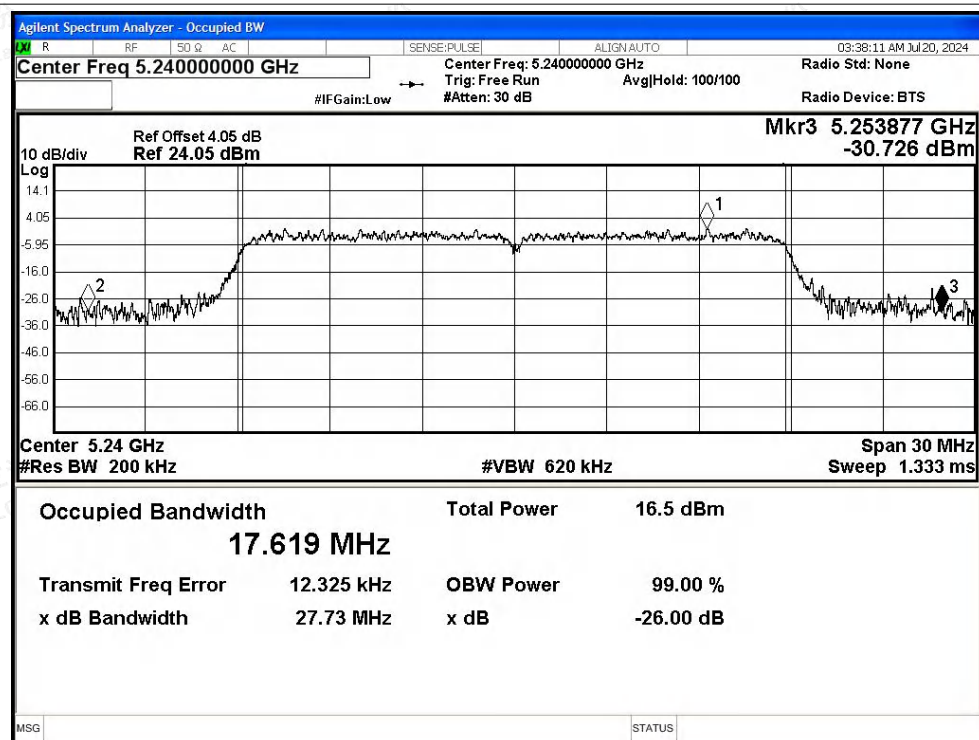


-26dB Bandwidth NVNT ac20 5200MHz Ant1

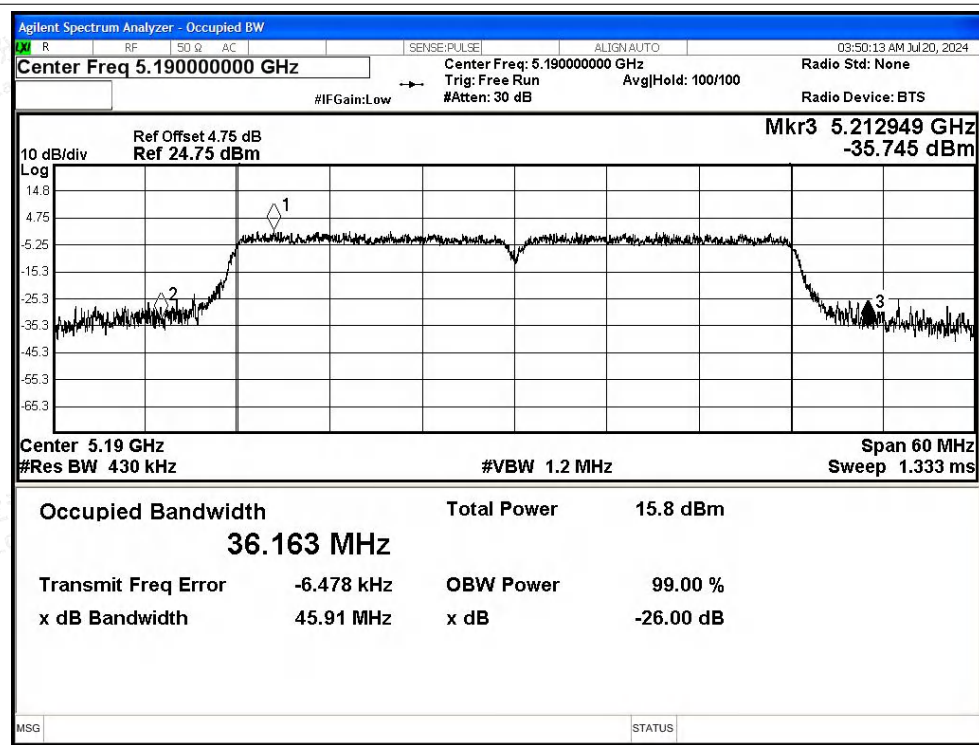




-26dB Bandwidth NVNT ac20 5240MHz Ant1

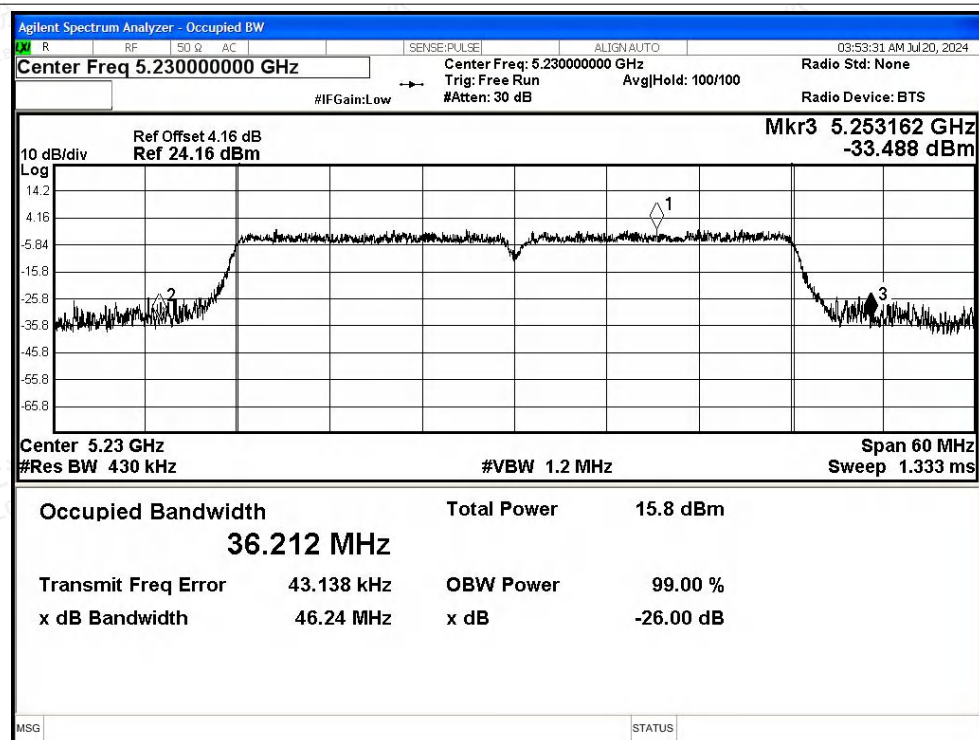


-26dB Bandwidth NVNT ac40 5190MHz Ant1

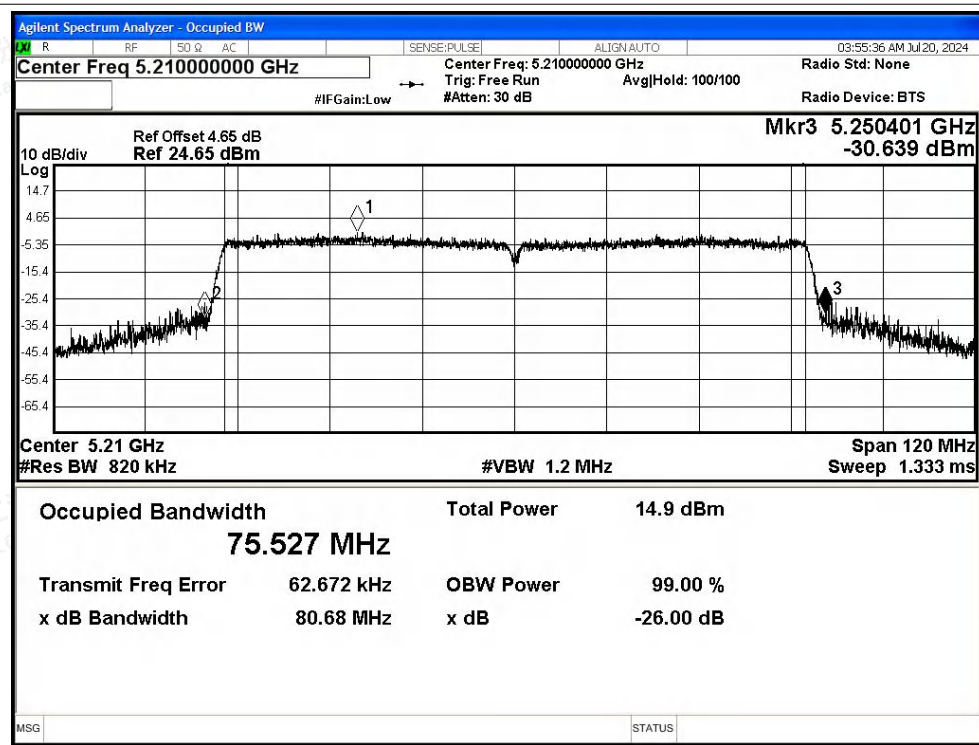




-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1





D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	12.92	0.24	13.16	24	Pass
NVNT	a	5200	Ant0	12.74	0.24	12.98	24	Pass
NVNT	a	5240	Ant0	12.74	0.24	12.98	24	Pass
NVNT	n20	5180	Ant0	11.88	0.28	12.16	24	Pass
NVNT	n20	5200	Ant0	11.99	0.28	12.27	24	Pass
NVNT	n20	5240	Ant0	11.19	0.28	11.47	24	Pass
NVNT	n40	5190	Ant0	10.96	0.12	11.08	24	Pass
NVNT	n40	5230	Ant0	10.22	0.12	10.34	24	Pass
NVNT	ac20	5180	Ant0	11.88	0.23	12.11	24	Pass
NVNT	ac20	5200	Ant0	11.72	0.23	11.95	24	Pass
NVNT	ac20	5240	Ant0	11.01	0.23	11.24	24	Pass
NVNT	ac40	5190	Ant0	11.01	0.12	11.13	24	Pass
NVNT	ac40	5230	Ant0	10.23	0.12	10.35	24	Pass
NVNT	ac80	5210	Ant0	9.00	0.25	9.25	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	11.81	0.24	12.05	24	Pass
NVNT	a	5200	Ant1	11.57	0.24	11.81	24	Pass
NVNT	a	5240	Ant1	11.31	0.24	11.55	24	Pass
NVNT	n20	5180	Ant1	10.38	0.28	10.66	24	Pass
NVNT	n20	5200	Ant1	10.15	0.28	10.43	24	Pass
NVNT	n20	5240	Ant1	11.03	0.28	11.31	24	Pass
NVNT	n40	5190	Ant1	9.53	0.12	9.65	24	Pass
NVNT	n40	5230	Ant1	9.24	0.12	9.36	24	Pass
NVNT	ac20	5180	Ant1	10.26	0.28	10.54	24	Pass
NVNT	ac20	5200	Ant1	10.04	0.28	10.32	24	Pass
NVNT	ac20	5240	Ant1	10.74	0.28	11.02	24	Pass
NVNT	ac40	5190	Ant1	9.58	0.12	9.70	24	Pass
NVNT	ac40	5230	Ant1	10.09	0.12	10.21	24	Pass
NVNT	ac80	5210	Ant1	8.35	0.25	8.60	24	Pass



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MIMO

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1 (MIMO)		
NVNT	n20	5180	12.16	10.66	14.48	23.01	Pass
NVNT	n20	5200	12.27	10.43	14.46	23.01	Pass
NVNT	n20	5240	11.47	11.31	14.40	23.01	Pass
NVNT	n40	5190	11.08	9.65	13.43	23.01	Pass
NVNT	n40	5230	10.34	9.36	12.89	23.01	Pass
NVNT	ac20	5180	12.11	10.54	14.41	23.01	Pass
NVNT	ac20	5200	11.95	10.32	14.22	23.01	Pass
NVNT	ac20	5240	11.24	11.02	14.14	23.01	Pass
NVNT	ac40	5190	11.13	9.70	13.48	23.01	Pass
NVNT	ac40	5230	10.35	10.21	13.29	23.01	Pass
NVNT	ac80	5210	9.25	8.60	11.95	23.01	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant0	2.27	0.24	2.51	11	Pass
NVNT	a	5200	Ant0	2.06	0.24	2.30	11	Pass
NVNT	a	5240	Ant0	2.17	0.24	2.41	11	Pass
NVNT	n20	5180	Ant0	1.16	0.28	1.44	11	Pass
NVNT	n20	5200	Ant0	1.35	0.28	1.63	11	Pass
NVNT	n20	5240	Ant0	0.37	0.28	0.65	11	Pass
NVNT	n40	5190	Ant0	-2.87	0.12	-2.75	11	Pass
NVNT	n40	5230	Ant0	-3.55	0.12	-3.43	11	Pass
NVNT	ac20	5180	Ant0	1.1	0.23	1.33	11	Pass
NVNT	ac20	5200	Ant0	0.98	0.23	1.21	11	Pass
NVNT	ac20	5240	Ant0	0.23	0.23	0.46	11	Pass
NVNT	ac40	5190	Ant0	-2.79	0.12	-2.67	11	Pass
NVNT	ac40	5230	Ant0	-3.39	0.12	-3.27	11	Pass
NVNT	ac80	5210	Ant0	-7.56	0.25	-7.31	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	1.34	0.24	1.58	11	Pass
NVNT	a	5200	Ant1	0.98	0.24	1.22	11	Pass
NVNT	a	5240	Ant1	1.04	0.24	1.28	11	Pass
NVNT	n20	5180	Ant1	-0.39	0.28	-0.11	11	Pass
NVNT	n20	5200	Ant1	-0.68	0.28	-0.40	11	Pass
NVNT	n20	5240	Ant1	0.13	0.28	0.41	11	Pass
NVNT	n40	5190	Ant1	-3.68	0.12	-3.56	11	Pass
NVNT	n40	5230	Ant1	-4.69	0.12	-4.57	11	Pass
NVNT	ac20	5180	Ant1	-0.89	0.28	-0.61	11	Pass
NVNT	ac20	5200	Ant1	-0.56	0.28	-0.28	11	Pass
NVNT	ac20	5240	Ant1	-0.19	0.28	0.09	11	Pass
NVNT	ac40	5190	Ant1	-3.99	0.12	-3.87	11	Pass
NVNT	ac40	5230	Ant1	-3.7	0.12	-3.58	11	Pass
NVNT	ac80	5210	Ant1	-8.05	0.25	-7.80	11	Pass



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MIMO

Condition	Mode	Frequency (MHz)	EIRP PSD (dBm/MHz)			IC Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	1.44	-0.11	3.74	10	Pass
NVNT	n20	5200	1.63	-0.40	3.74	10	Pass
NVNT	n20	5240	0.65	0.41	3.54	10	Pass
NVNT	n40	5190	-2.75	-3.56	-0.13	10	Pass
NVNT	n40	5230	-3.43	-4.57	-0.95	10	Pass
NVNT	ac20	5180	1.33	-0.61	3.48	10	Pass
NVNT	ac20	5200	1.21	-0.28	3.54	10	Pass
NVNT	ac20	5240	0.46	0.09	3.29	10	Pass
NVNT	ac40	5190	-2.67	-3.87	-0.22	10	Pass
NVNT	ac40	5230	-3.27	-3.58	-0.41	10	Pass
NVNT	ac80	5210	-7.31	-7.80	-4.54	10	Pass

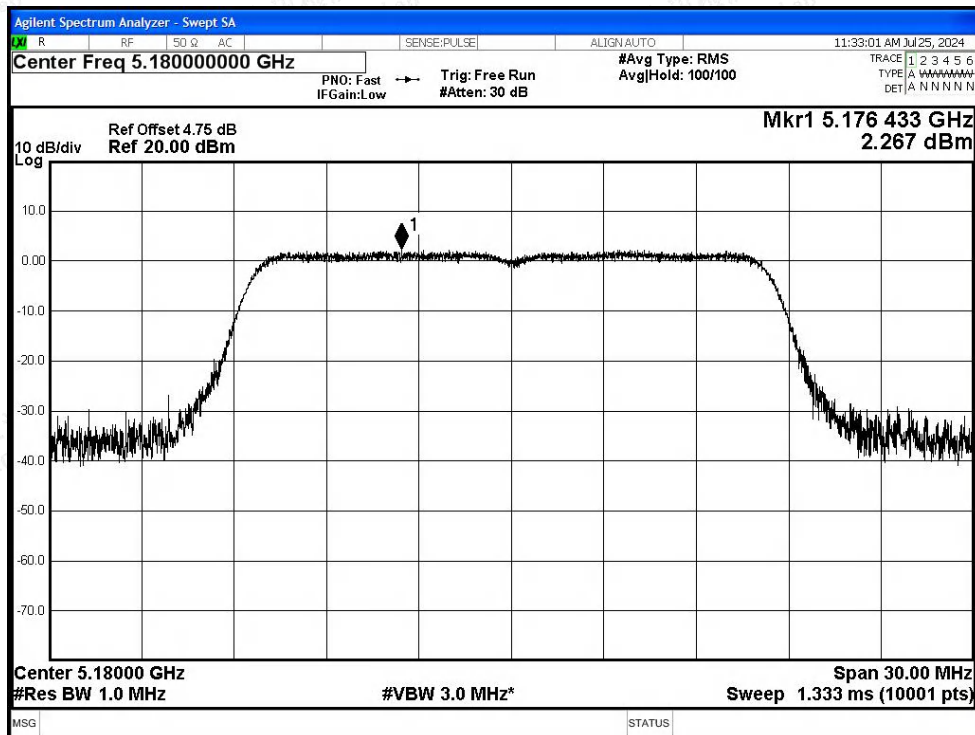


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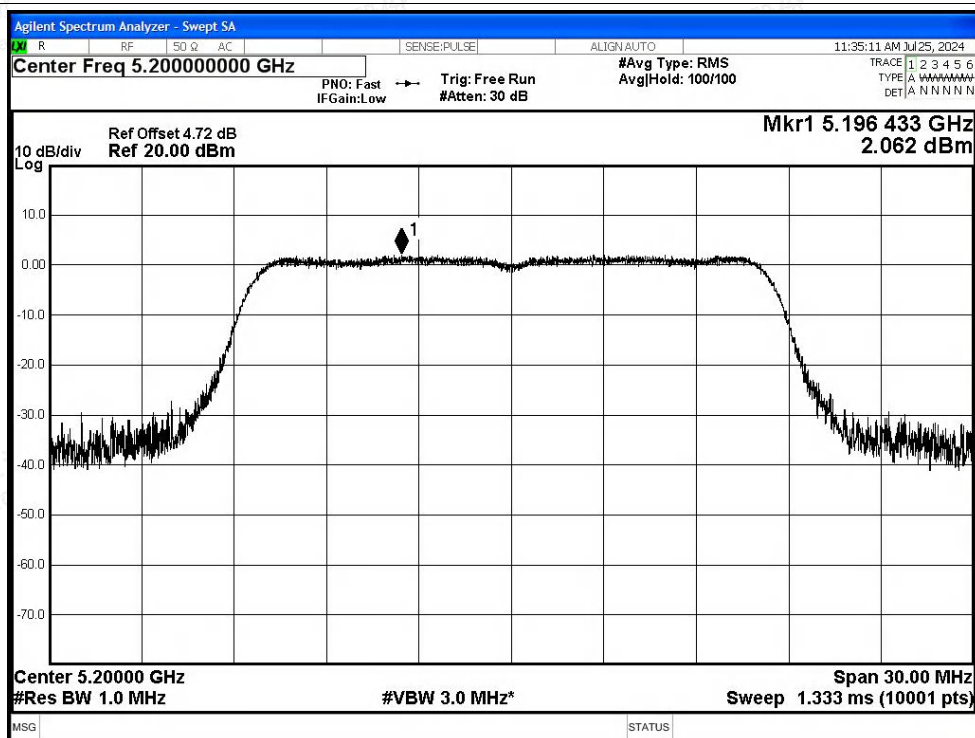


Test Graphs

PSD NVNT a 5180MHz Ant0

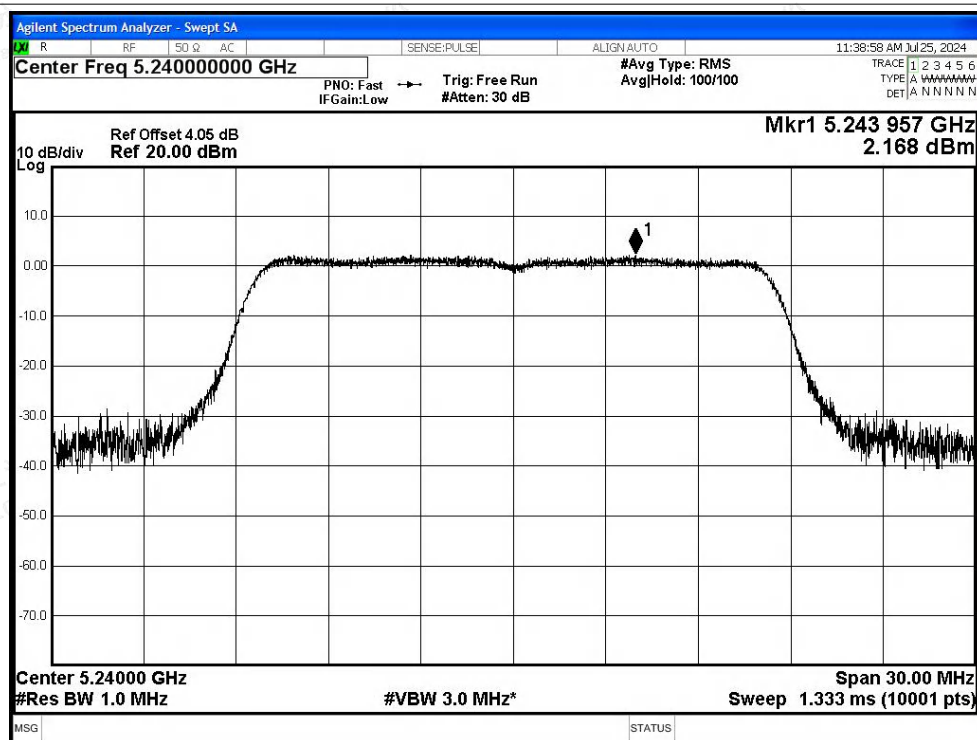


PSD NVNT a 5200MHz Ant0

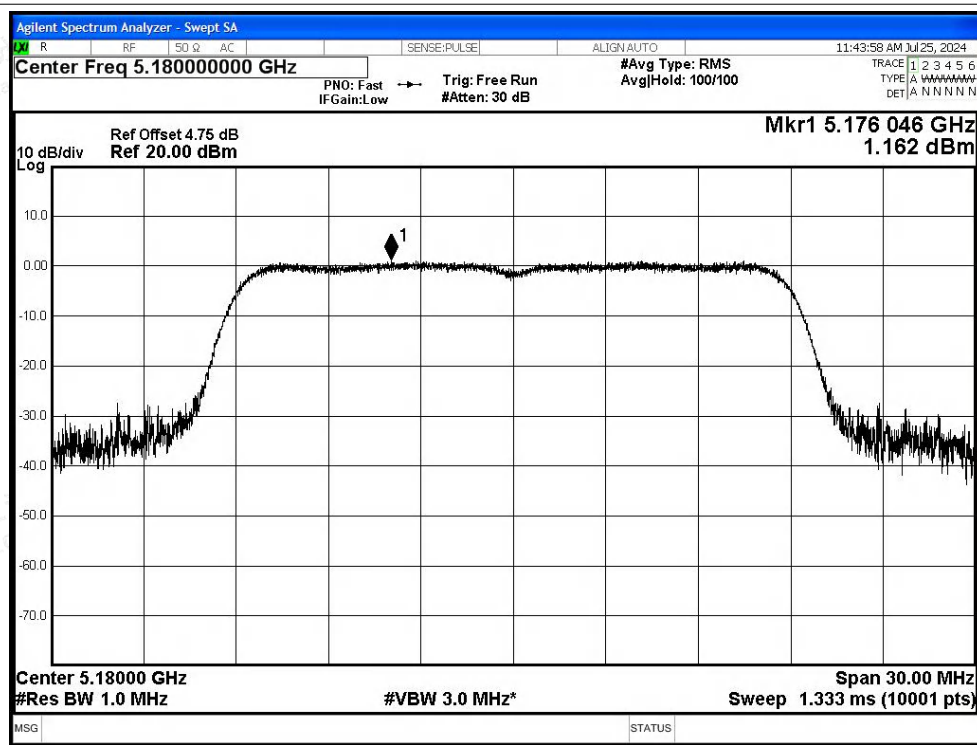


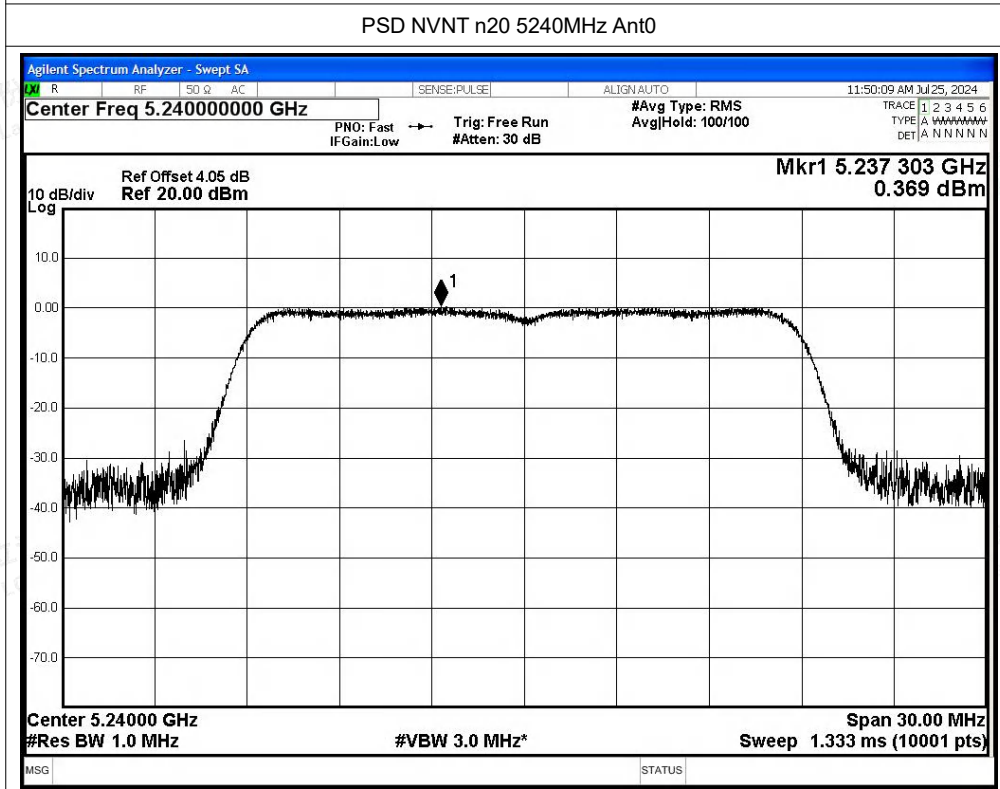
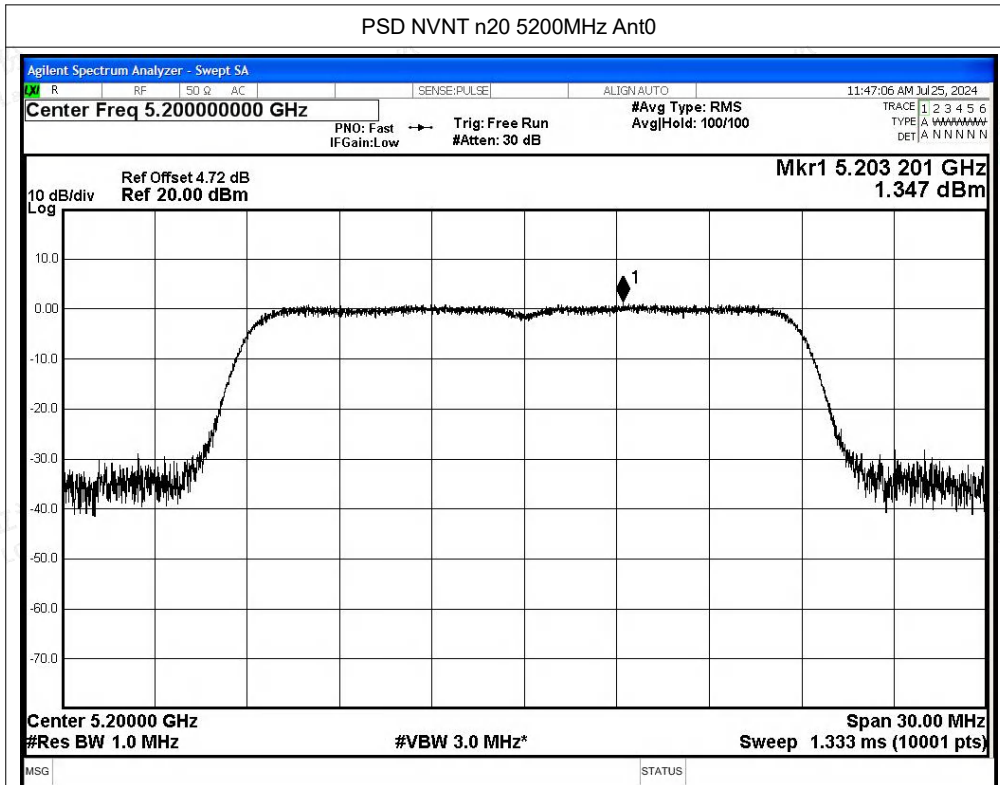


PSD NVNT a 5240MHz Ant0



PSD NVNT n20 5180MHz Ant0



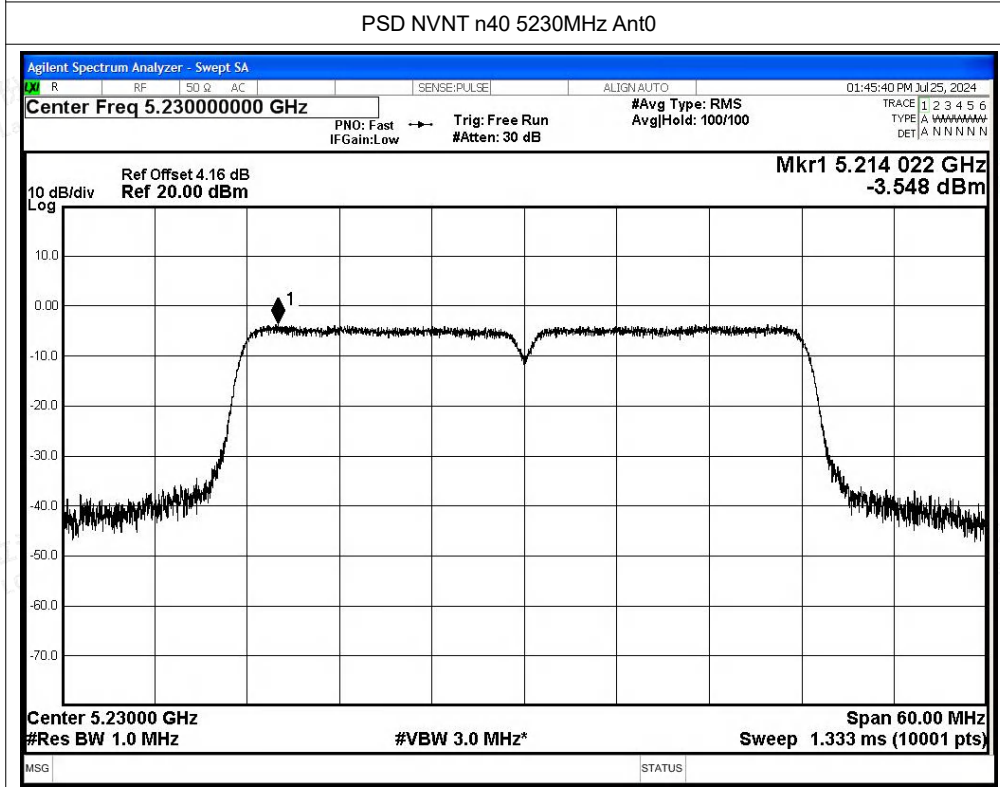
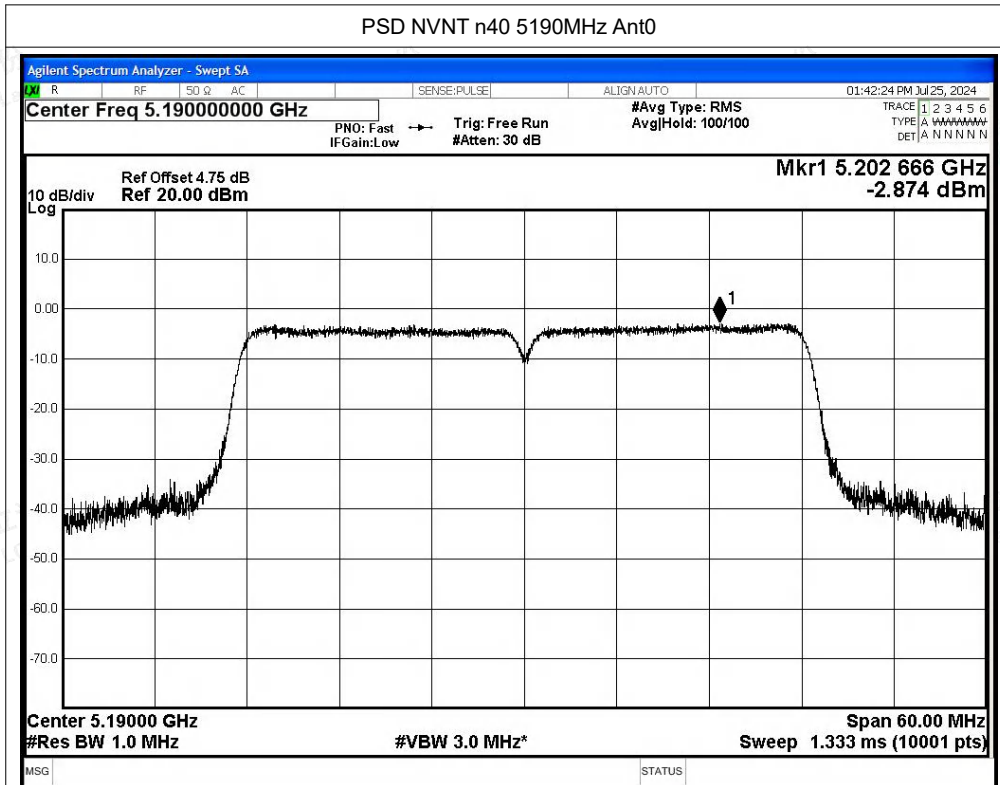


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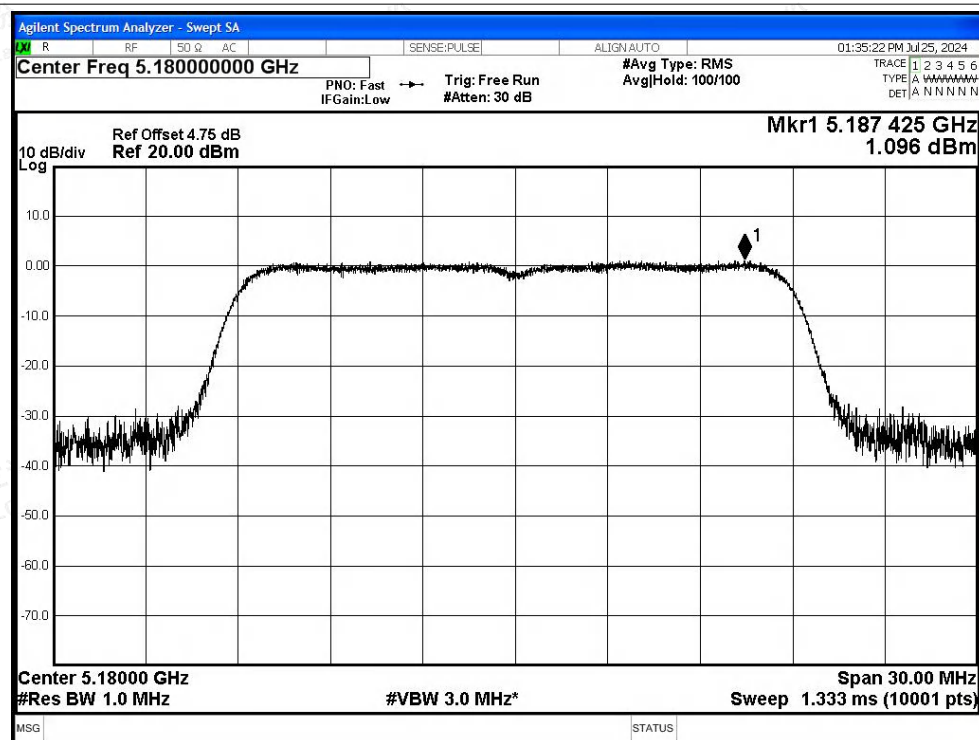
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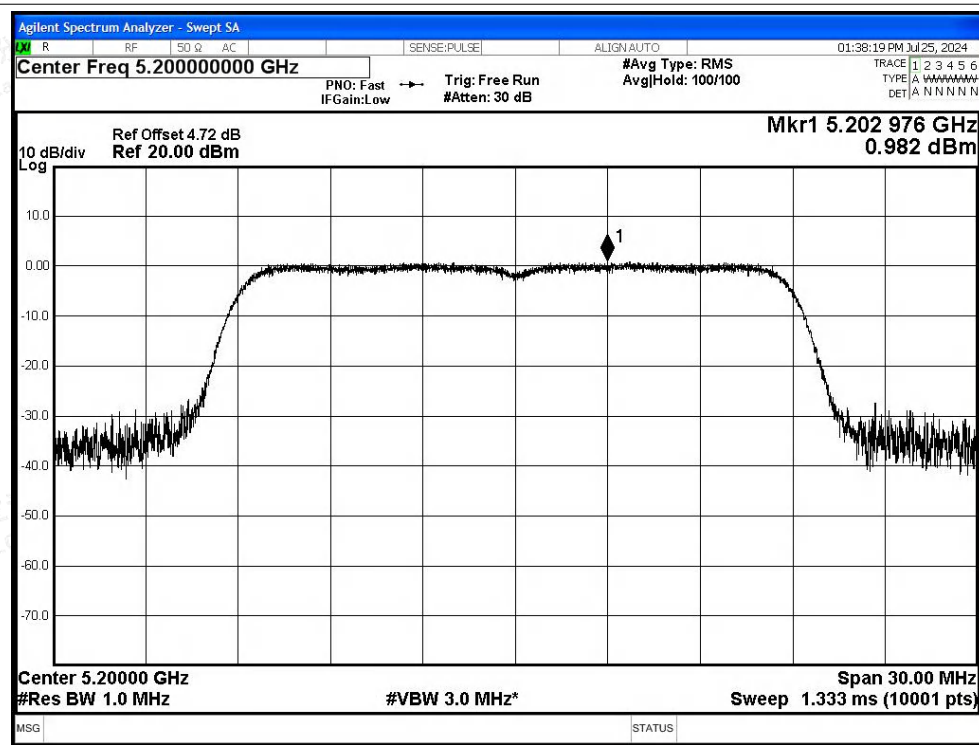


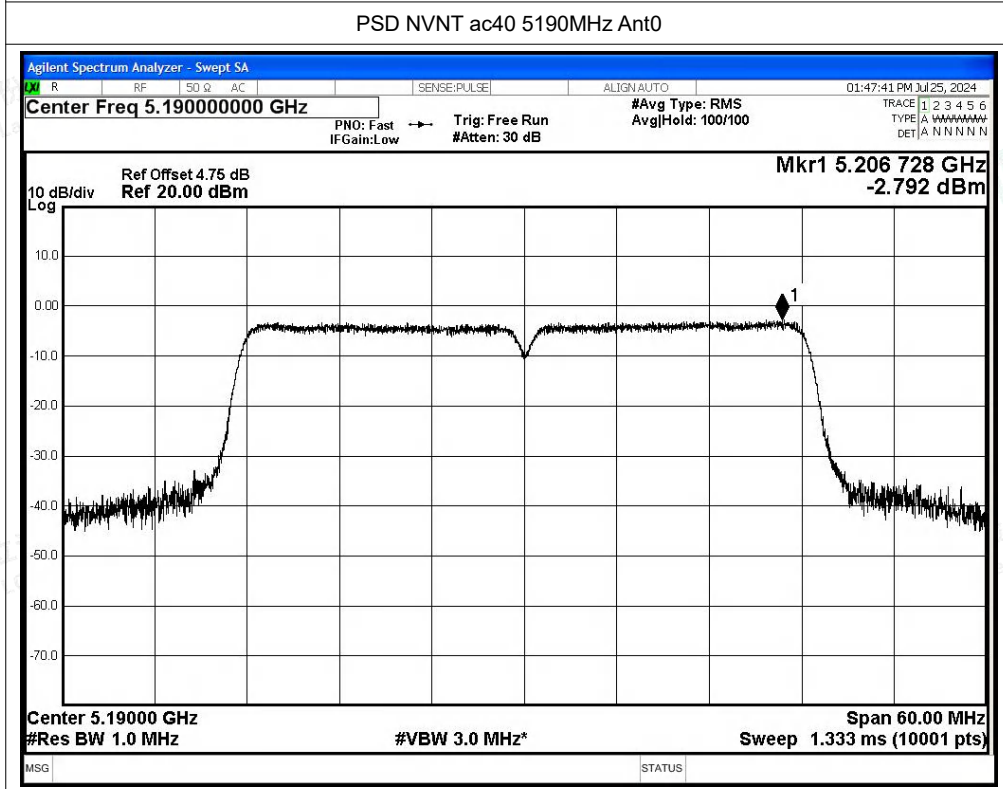
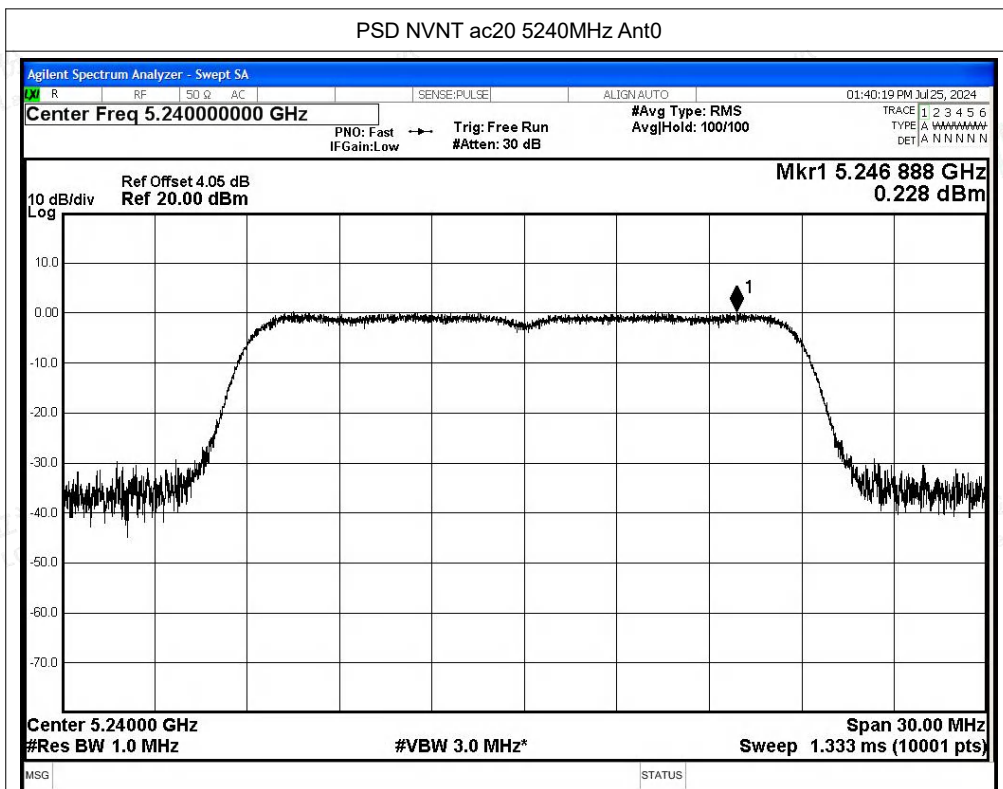


PSD NVNT ac20 5180MHz Ant0



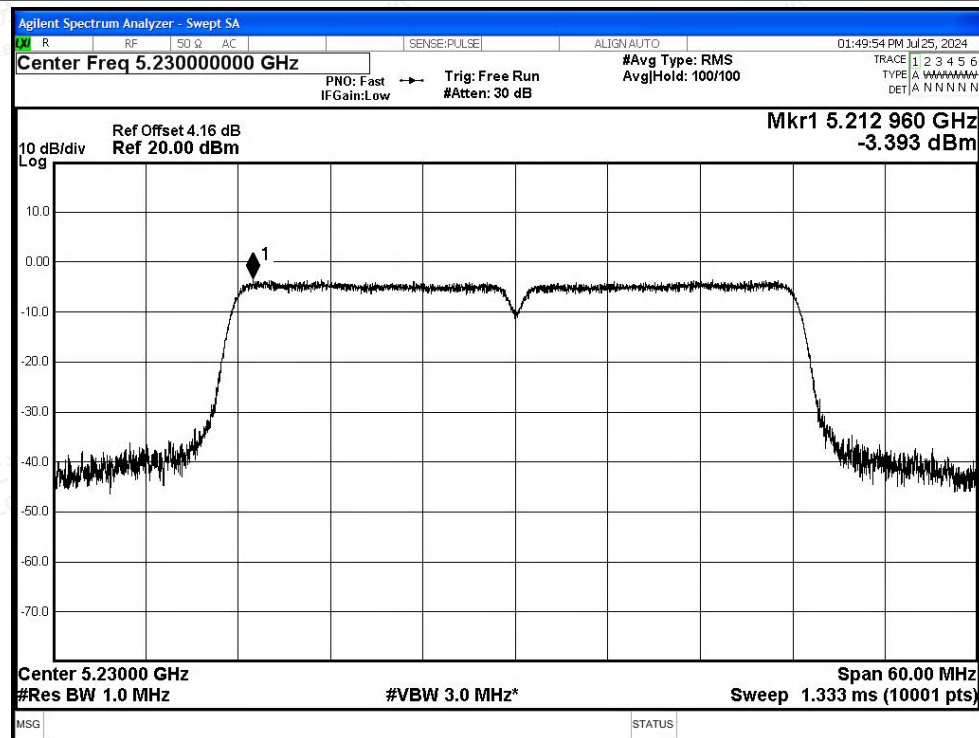
PSD NVNT ac20 5200MHz Ant0



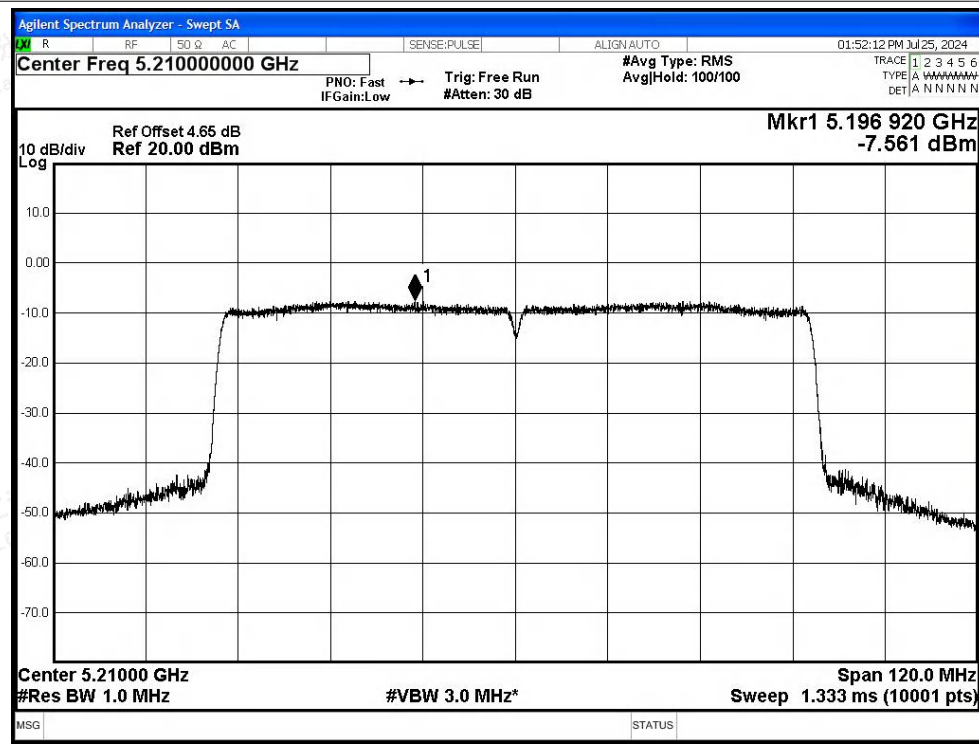




PSD NVNT ac40 5230MHz Ant0



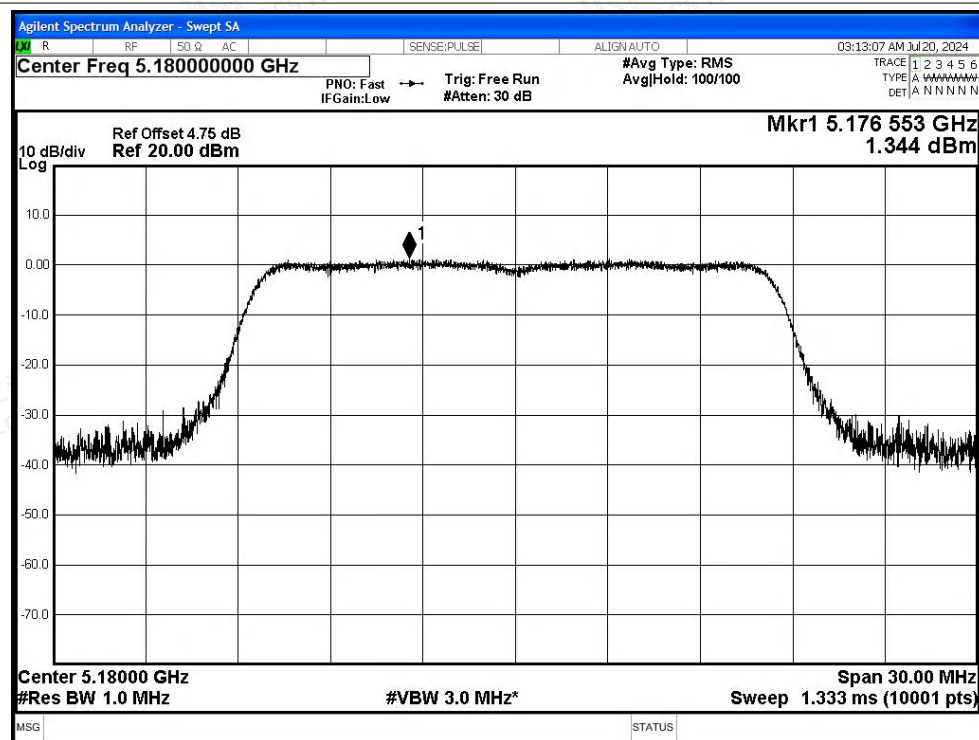
PSD NVNT ac80 5210MHz Ant0



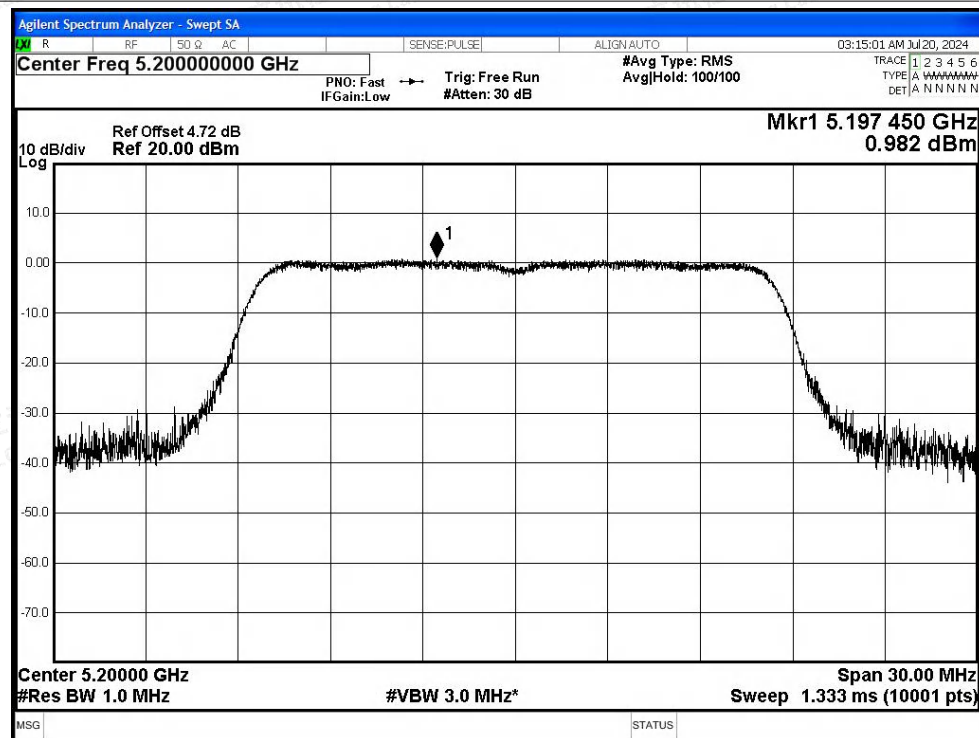


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

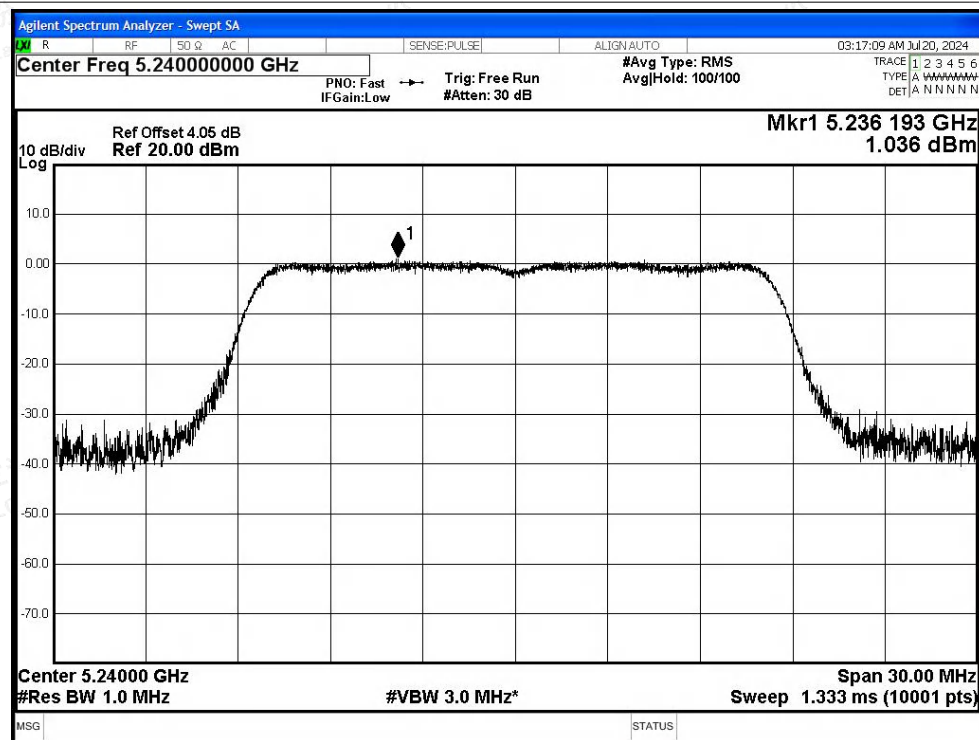
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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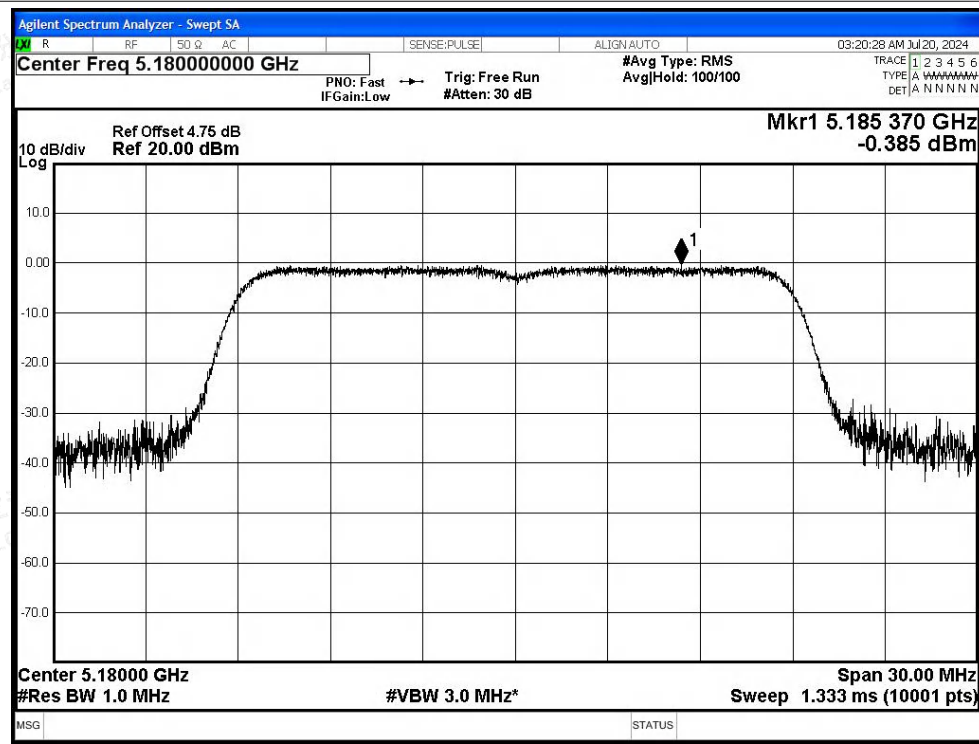
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PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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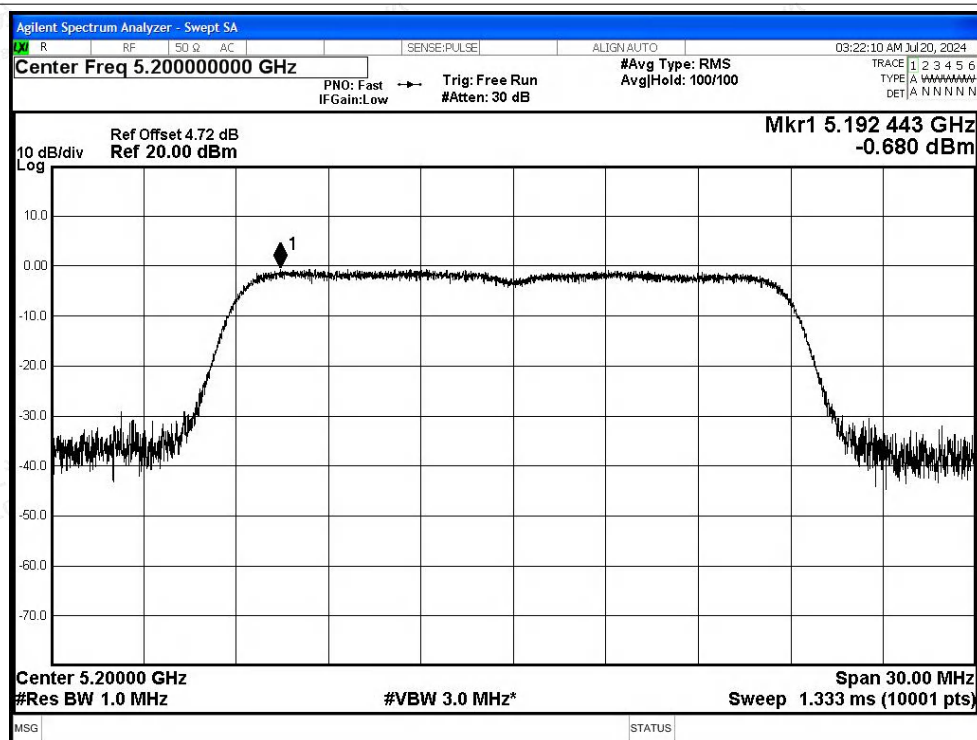
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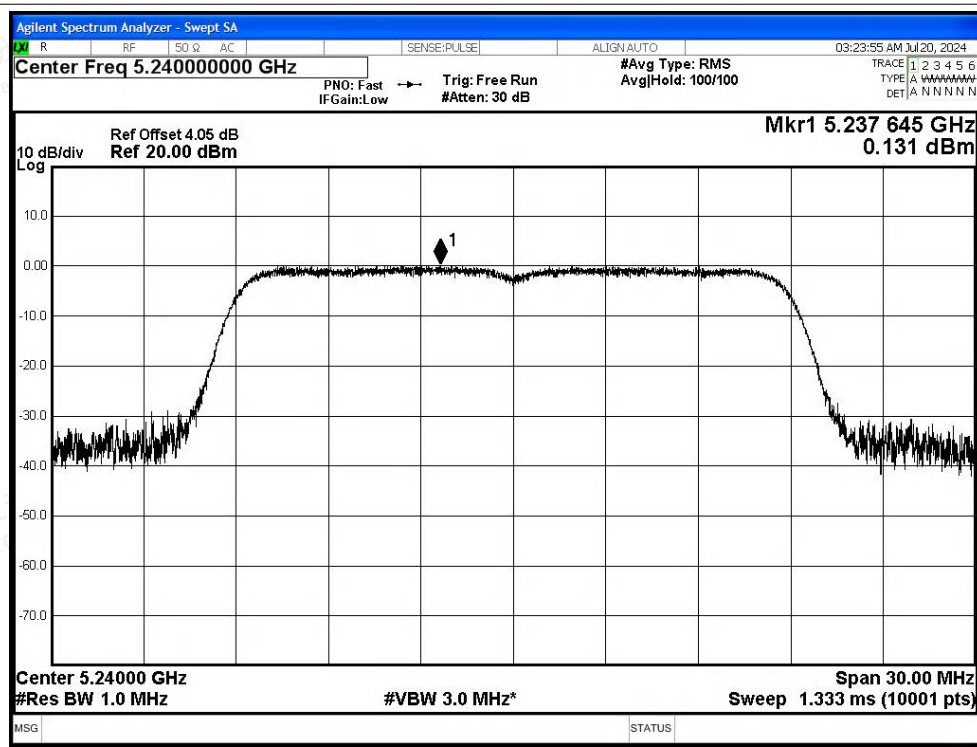
Scan code to check authenticity

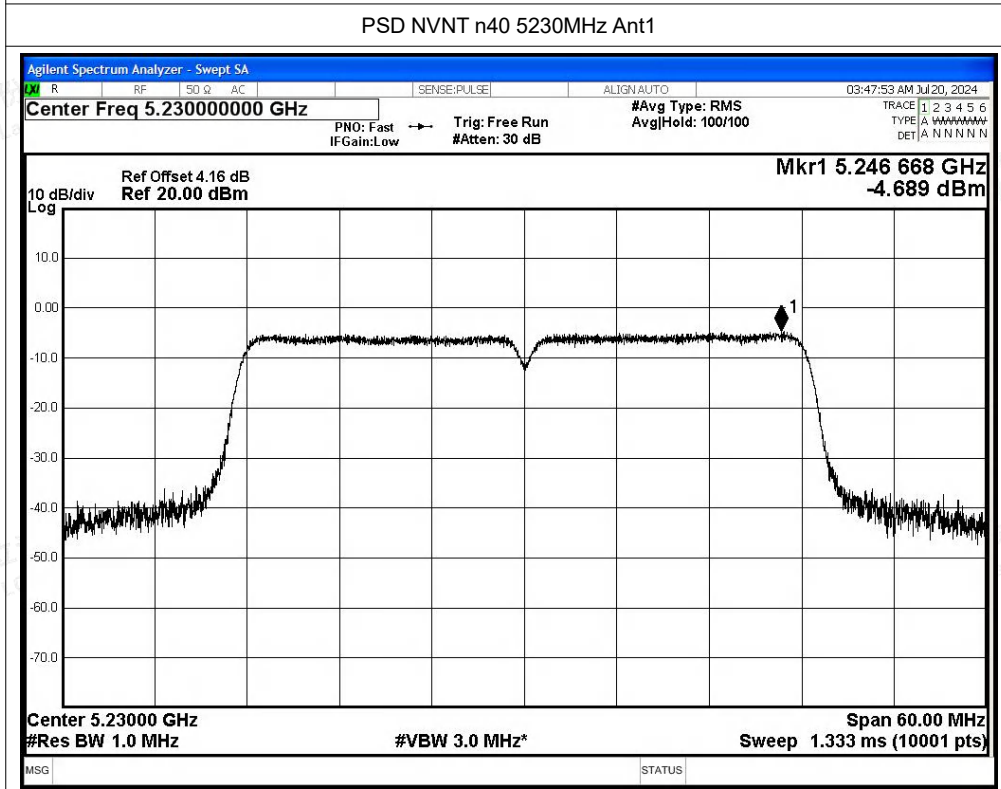
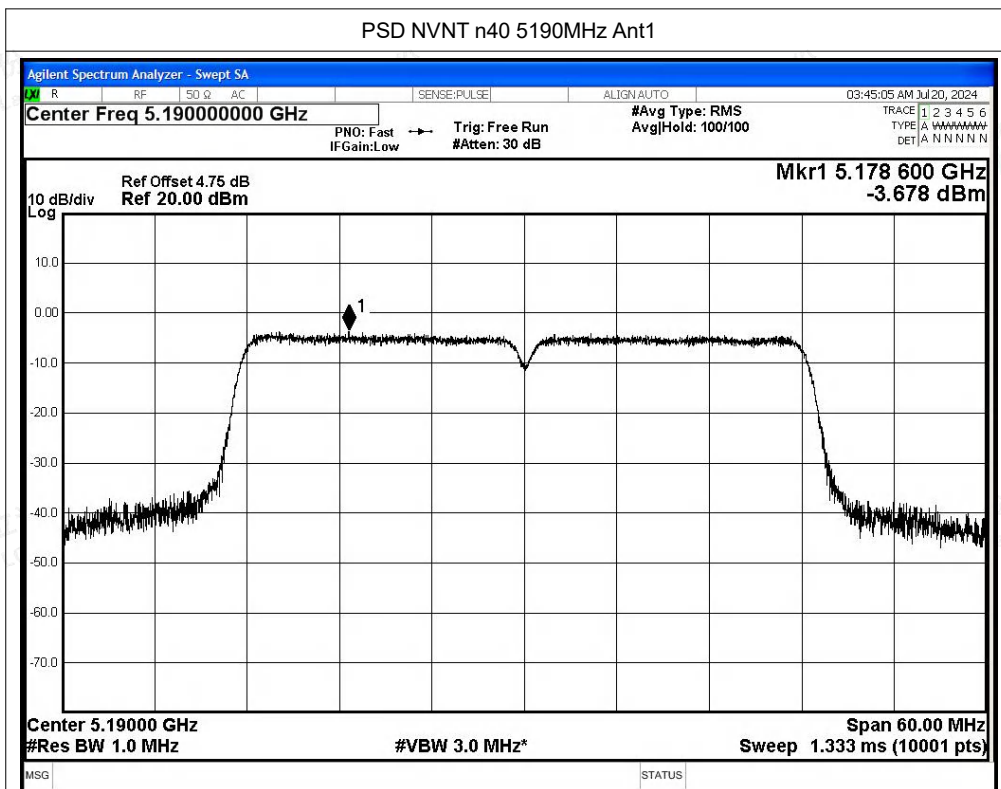


PSD NVNT n20 5200MHz Ant1



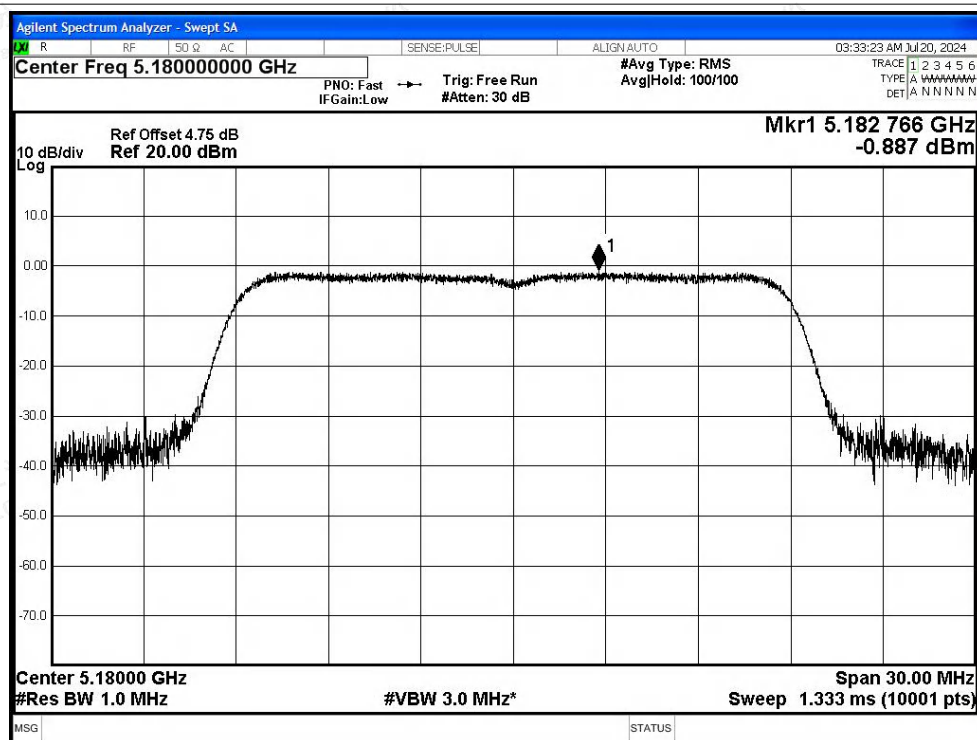
PSD NVNT n20 5240MHz Ant1



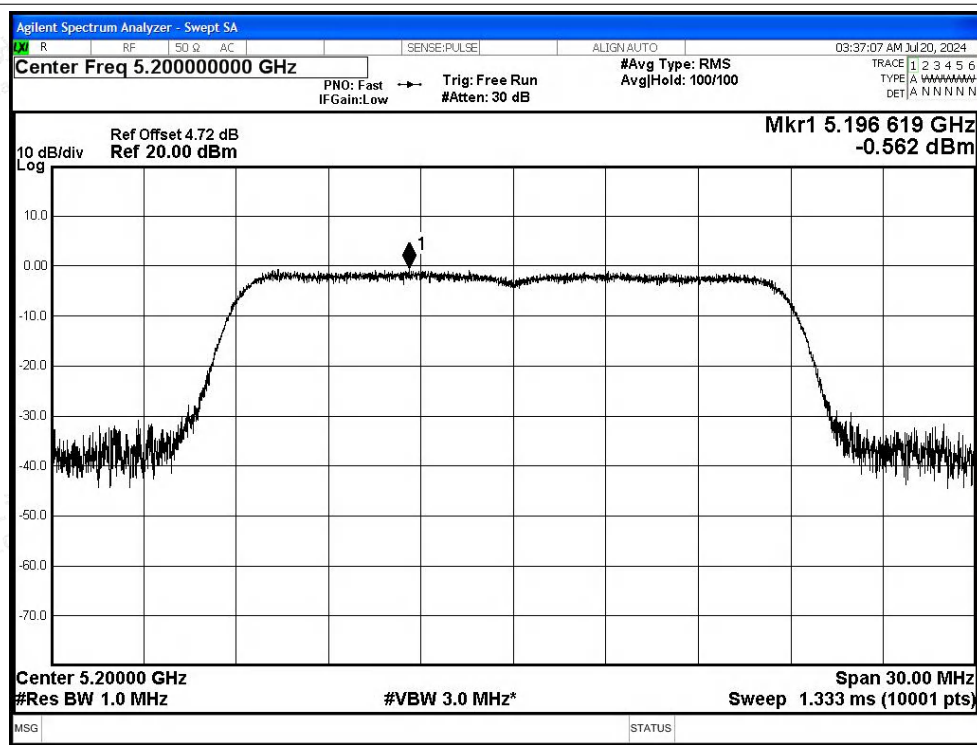




PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



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