



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: OTT BOX

Test Model: G Series

Environmental Conditions

Temperature:	24.6°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Paddi Chen





D.1 -26dB Bandwidth

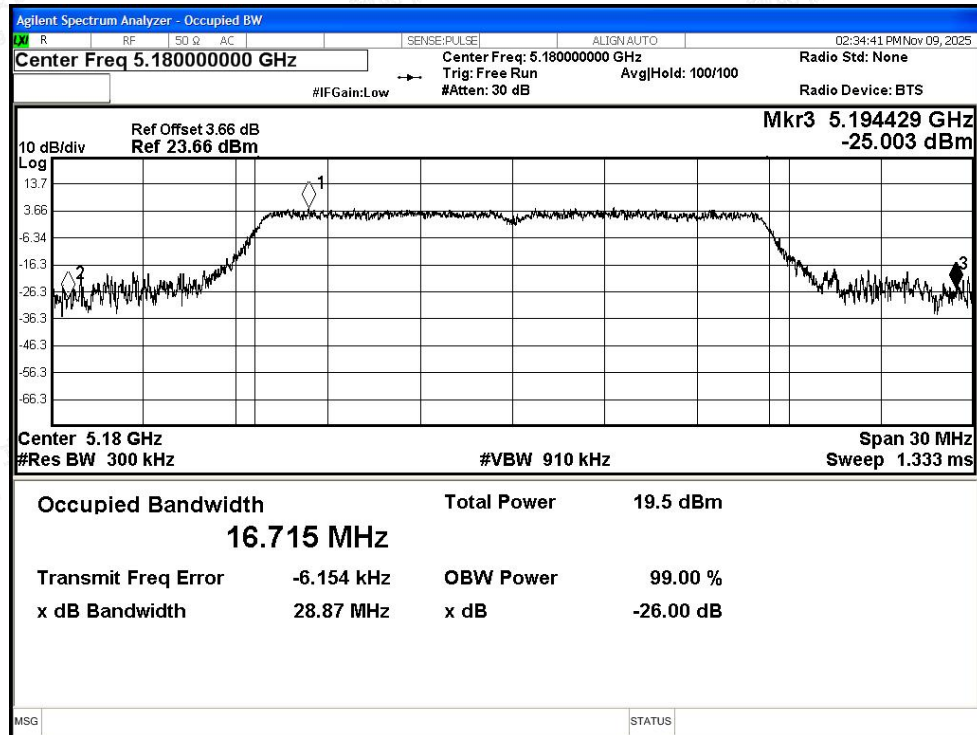
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	28.87	---	Pass
NVNT	a	5200	Ant1	26.48	---	Pass
NVNT	a	5240	Ant1	26.553	---	Pass
NVNT	n20	5180	Ant1	28.498	---	Pass
NVNT	n20	5200	Ant1	28.607	---	Pass
NVNT	n20	5240	Ant1	27.405	---	Pass
NVNT	n40	5190	Ant1	42.938	---	Pass
NVNT	n40	5230	Ant1	41.267	---	Pass
NVNT	ac20	5180	Ant1	27.603	---	Pass
NVNT	ac20	5200	Ant1	26.574	---	Pass
NVNT	ac20	5240	Ant1	27.624	---	Pass
NVNT	ac40	5190	Ant1	42.779	---	Pass
NVNT	ac40	5230	Ant1	41.194	---	Pass
NVNT	ac80	5210	Ant1	85.42	---	Pass
NVNT	ax20	5180	Ant1	28.424	---	Pass
NVNT	ax20	5200	Ant1	27.572	---	Pass
NVNT	ax20	5240	Ant1	25.131	---	Pass
NVNT	ax40	5190	Ant1	42.887	---	Pass
NVNT	ax40	5230	Ant1	44.003	---	Pass
NVNT	ax80	5210	Ant1	84.575	---	Pass



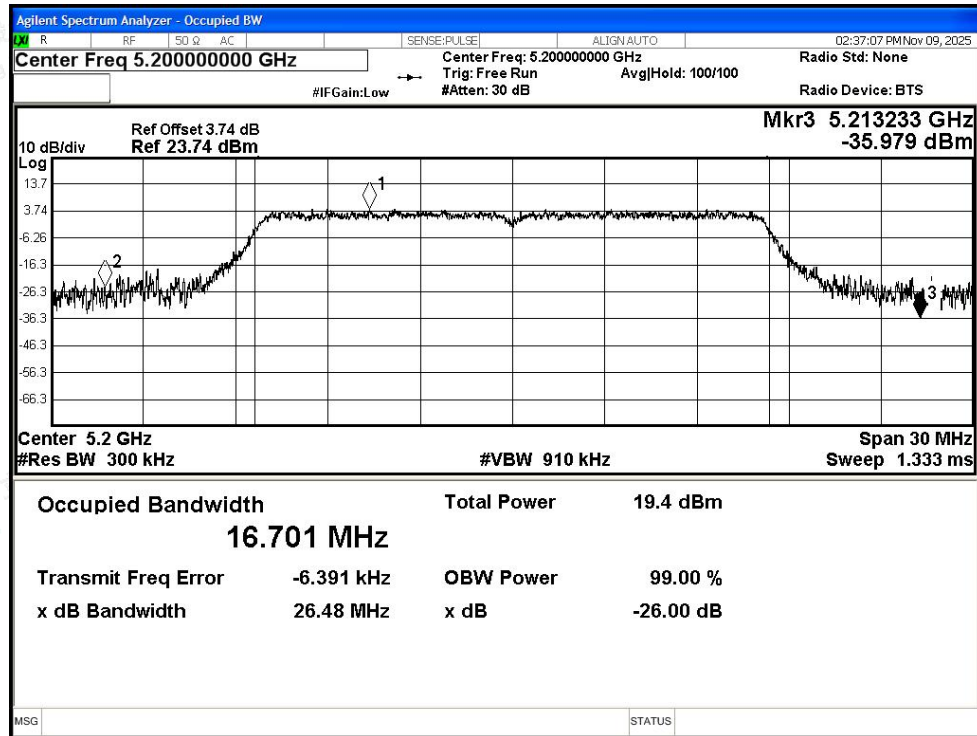


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

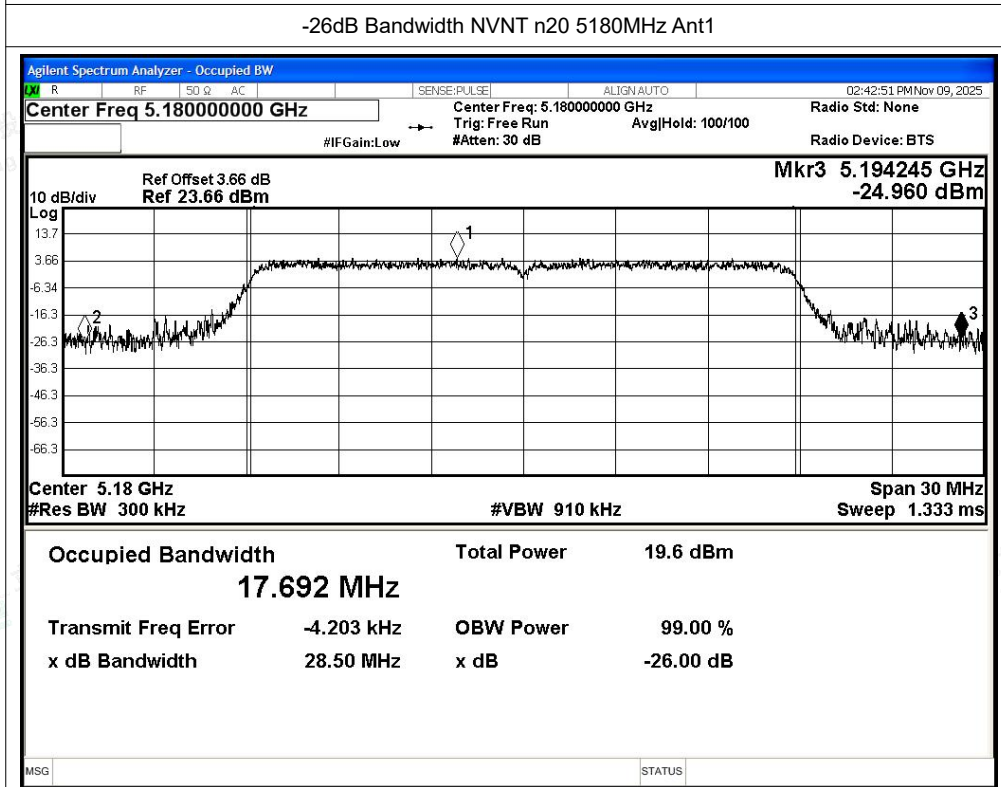
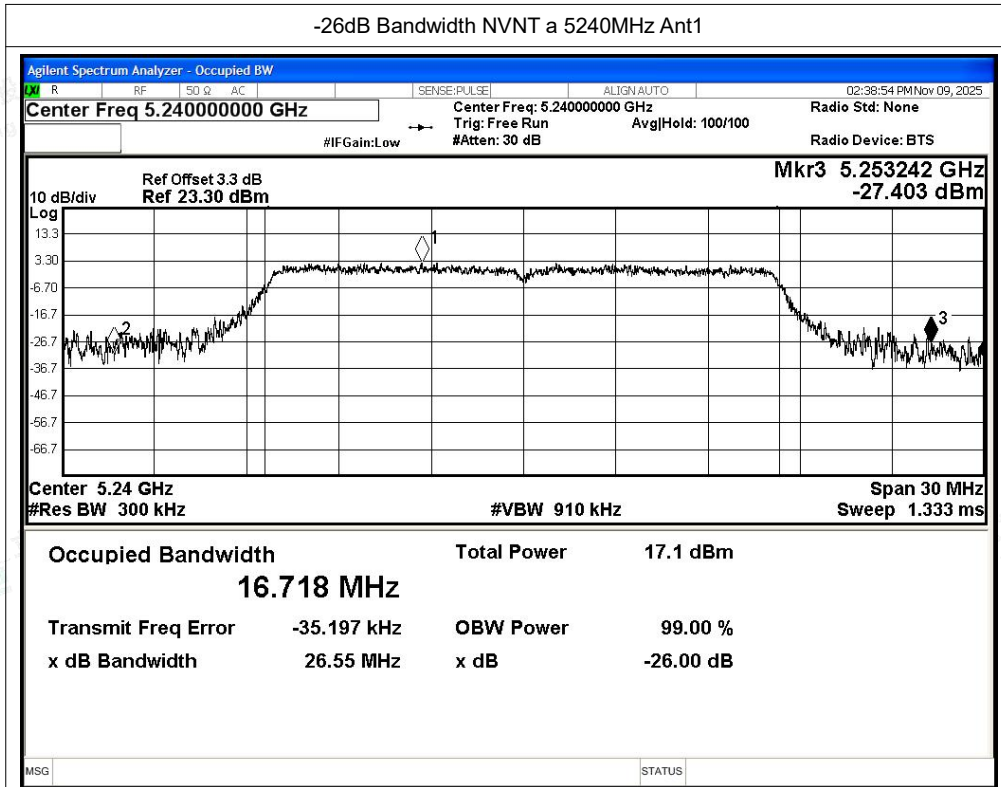


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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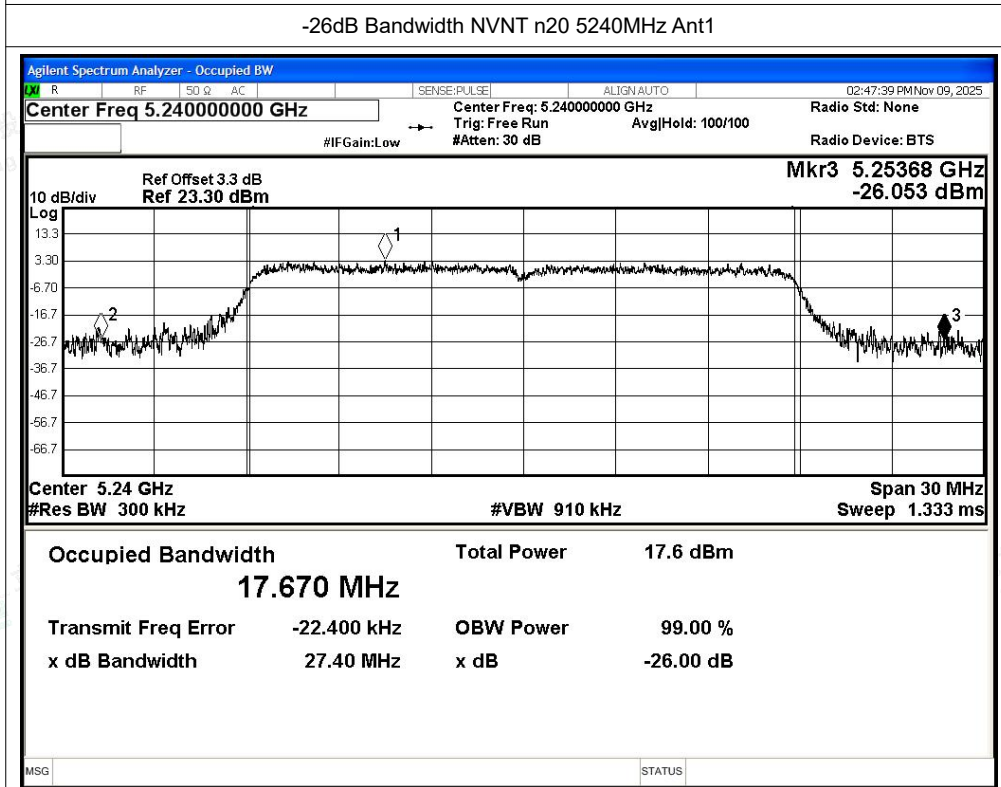
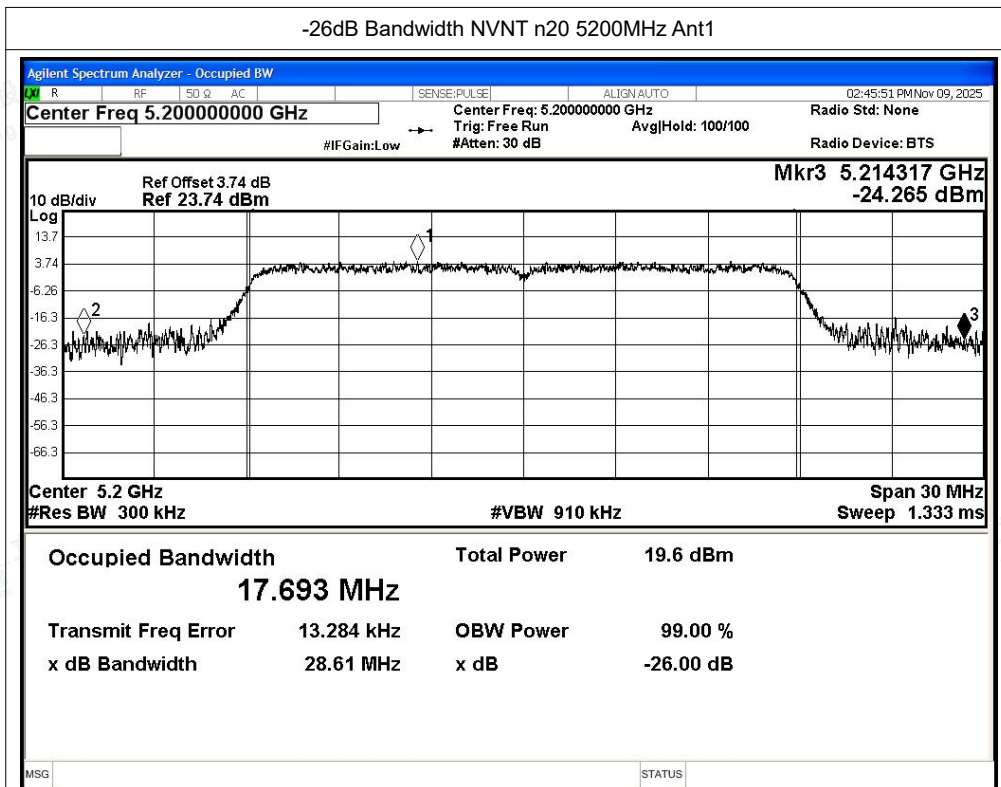


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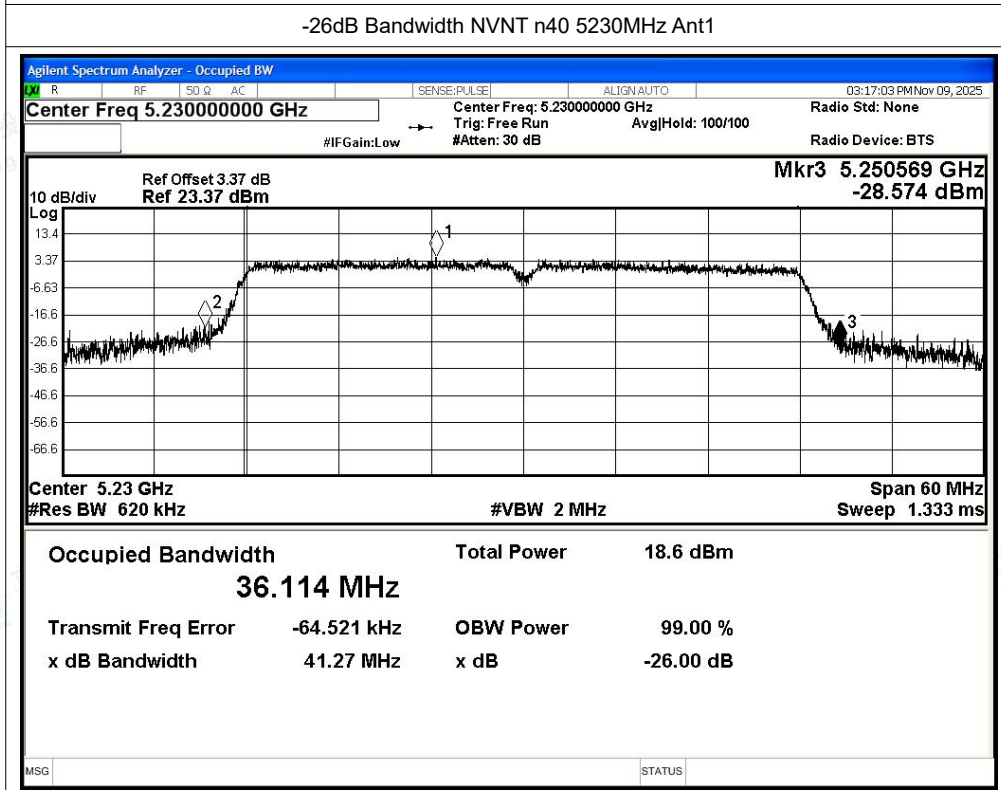
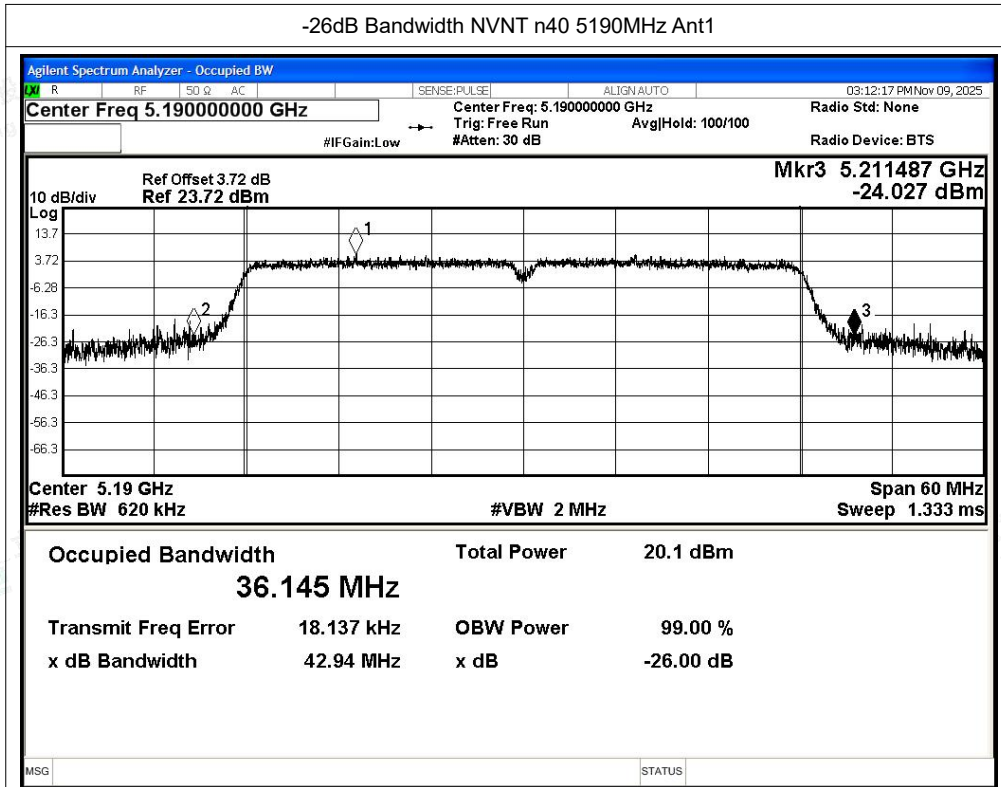


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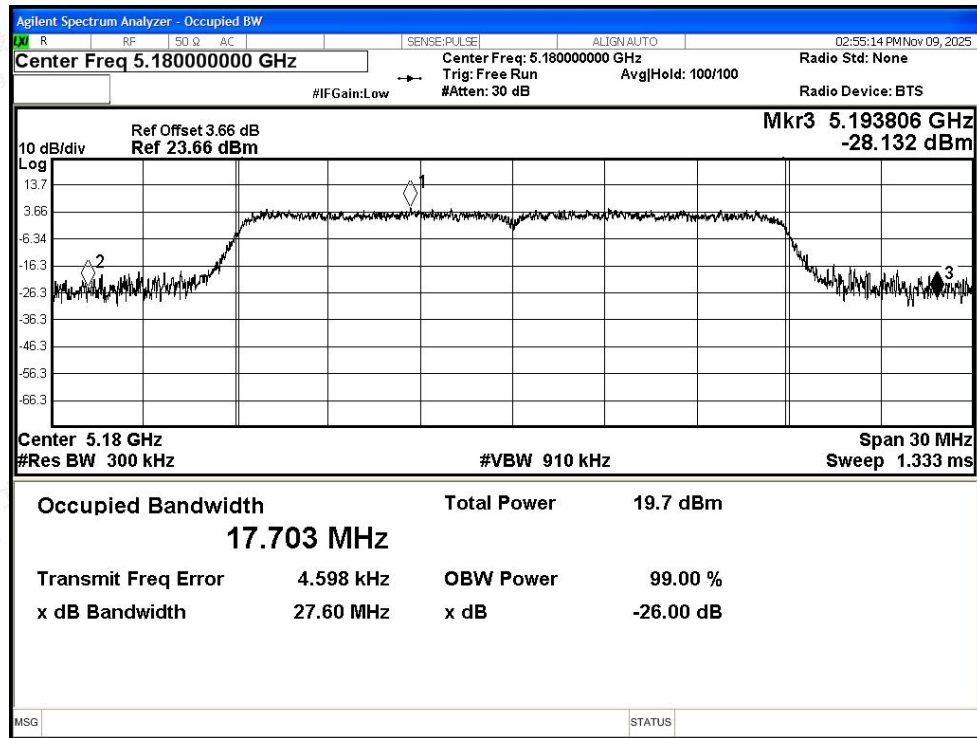
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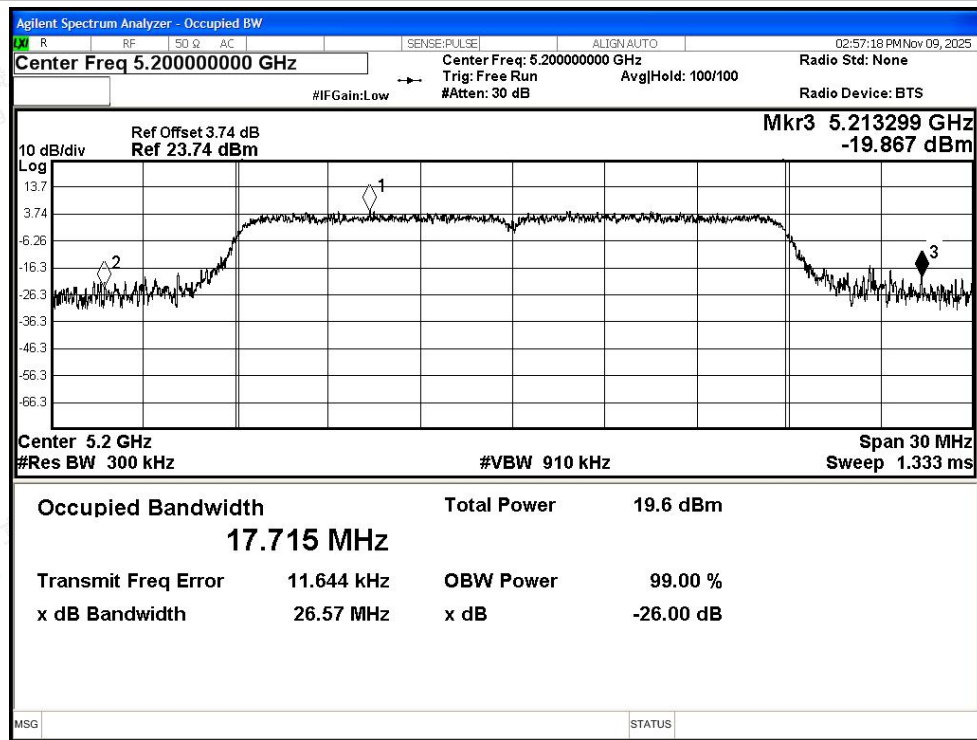
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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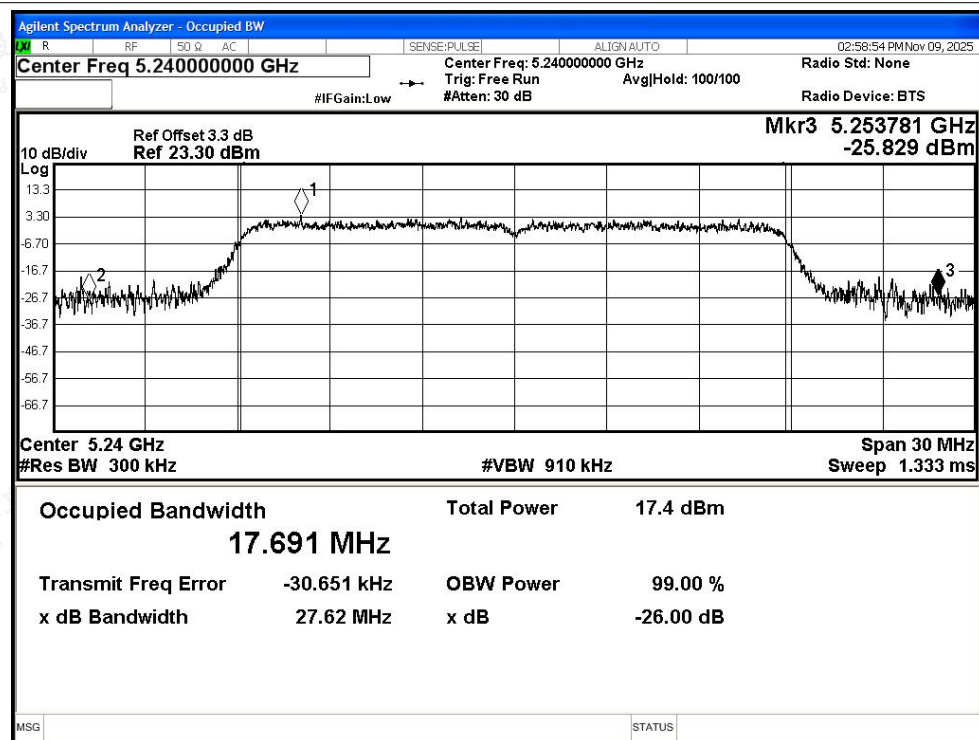
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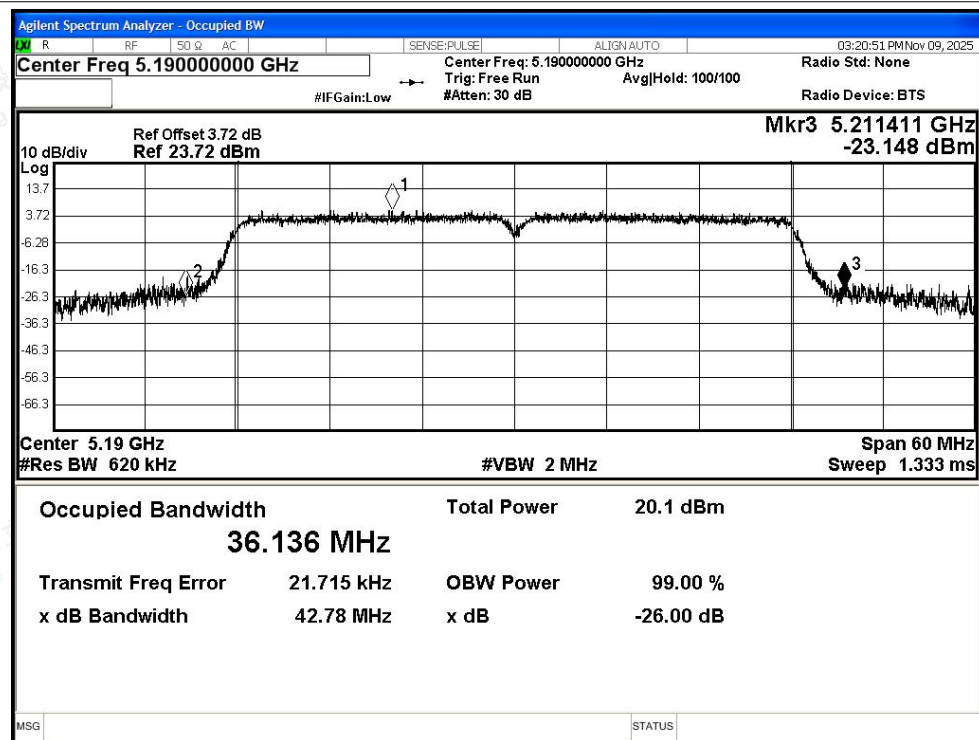
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



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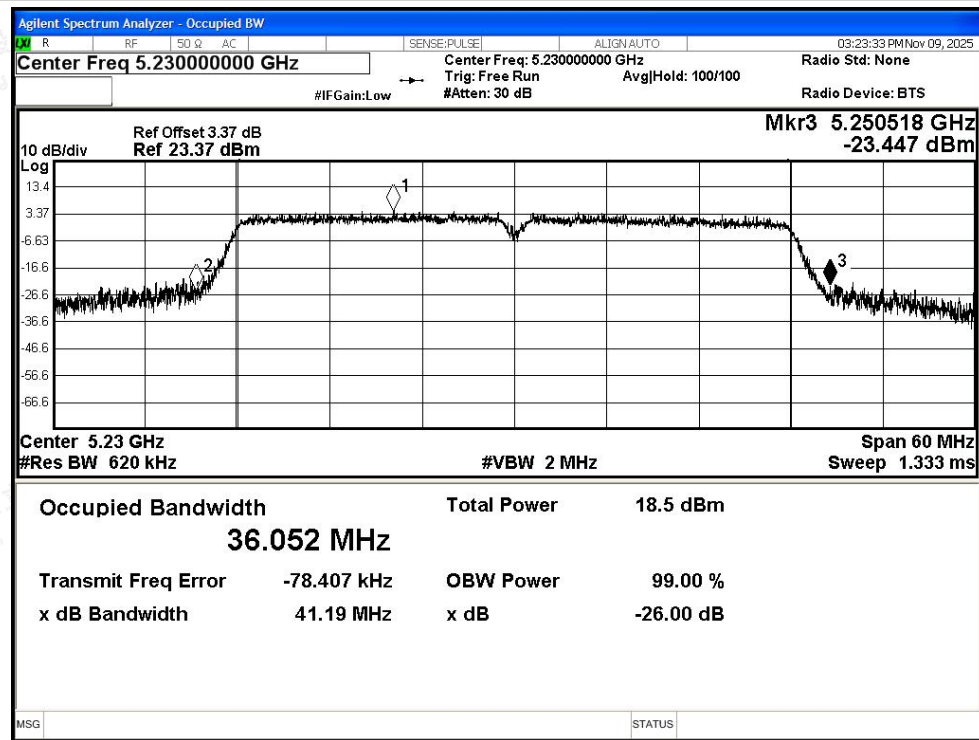
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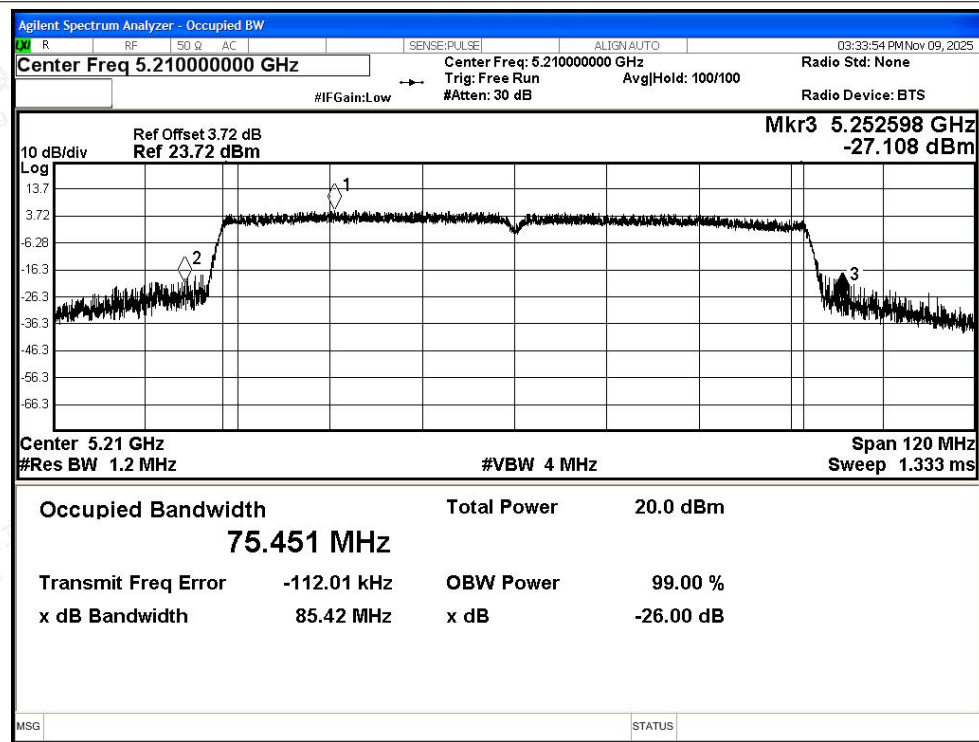
Scan code to check authenticity



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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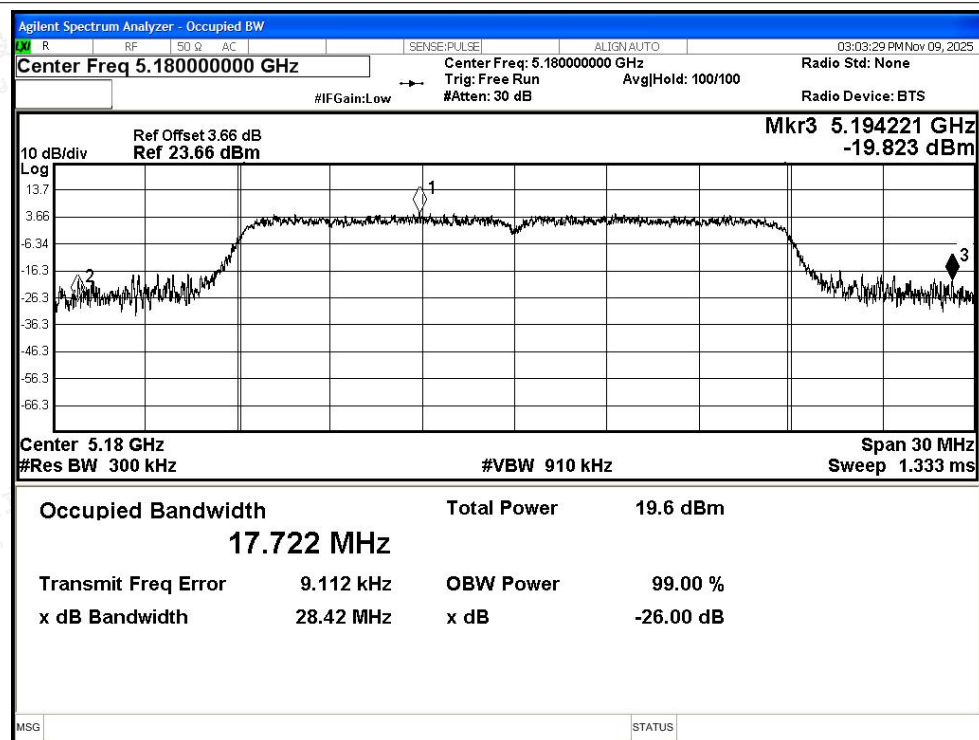
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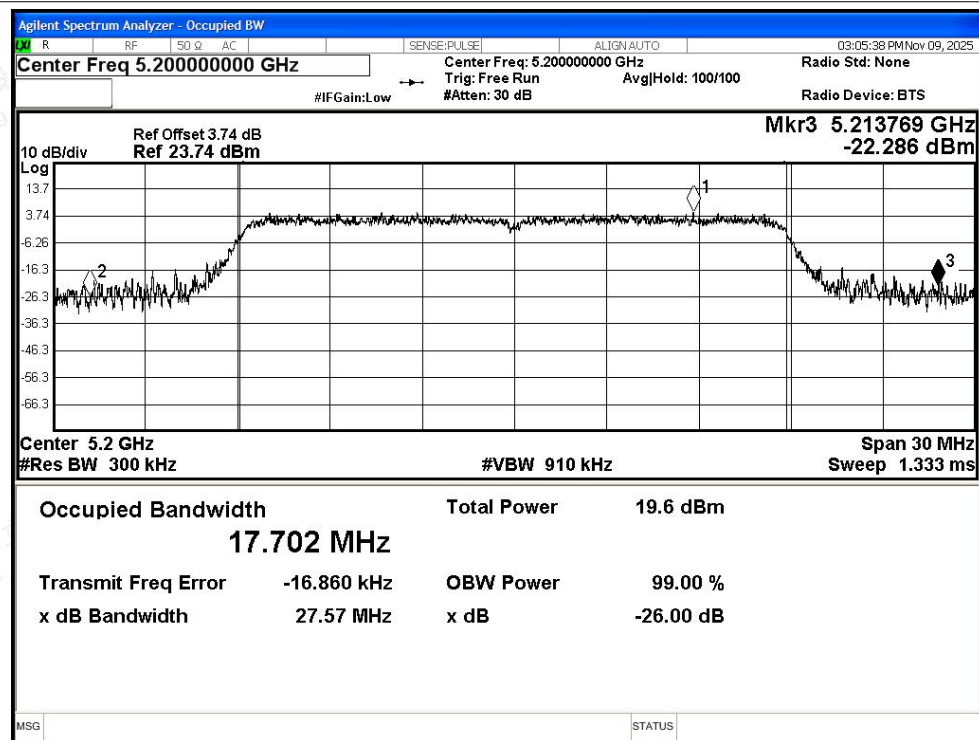
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-26dB Bandwidth NVNT ax20 5180MHz Ant1



-26dB Bandwidth NVNT ax20 5200MHz Ant1



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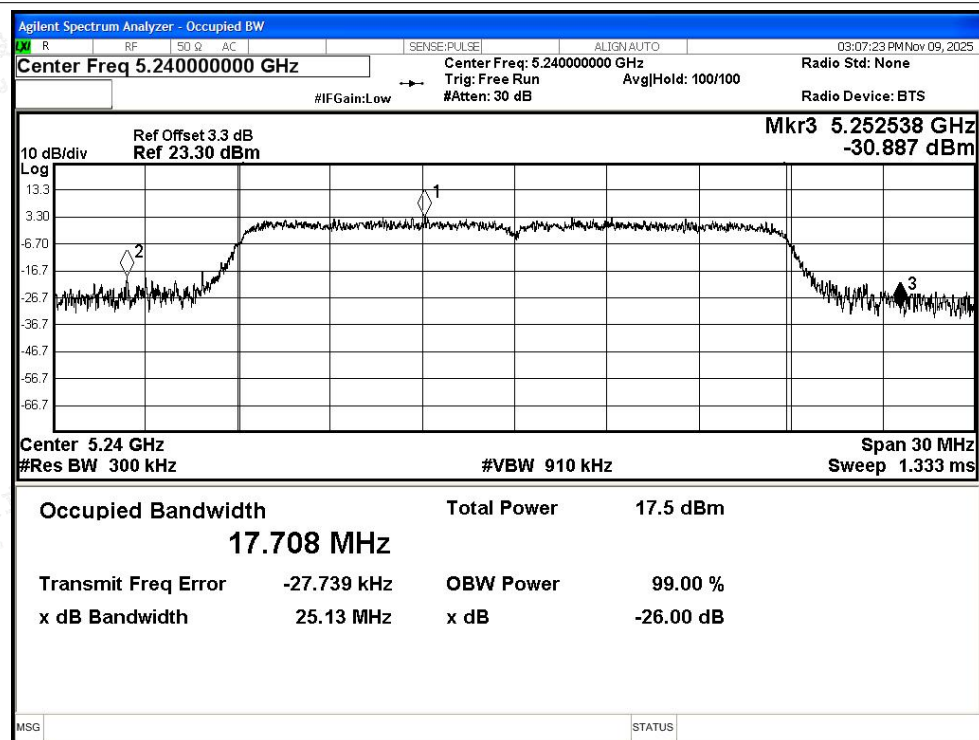
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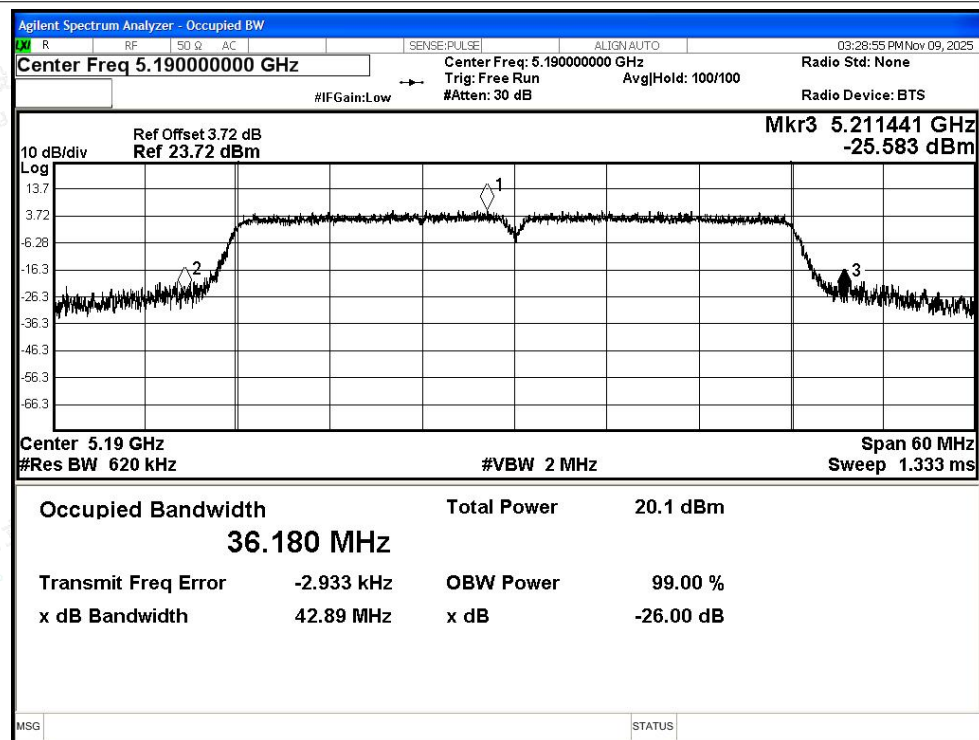
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-26dB Bandwidth NVNT ax20 5240MHz Ant1



-26dB Bandwidth NVNT ax40 5190MHz Ant1



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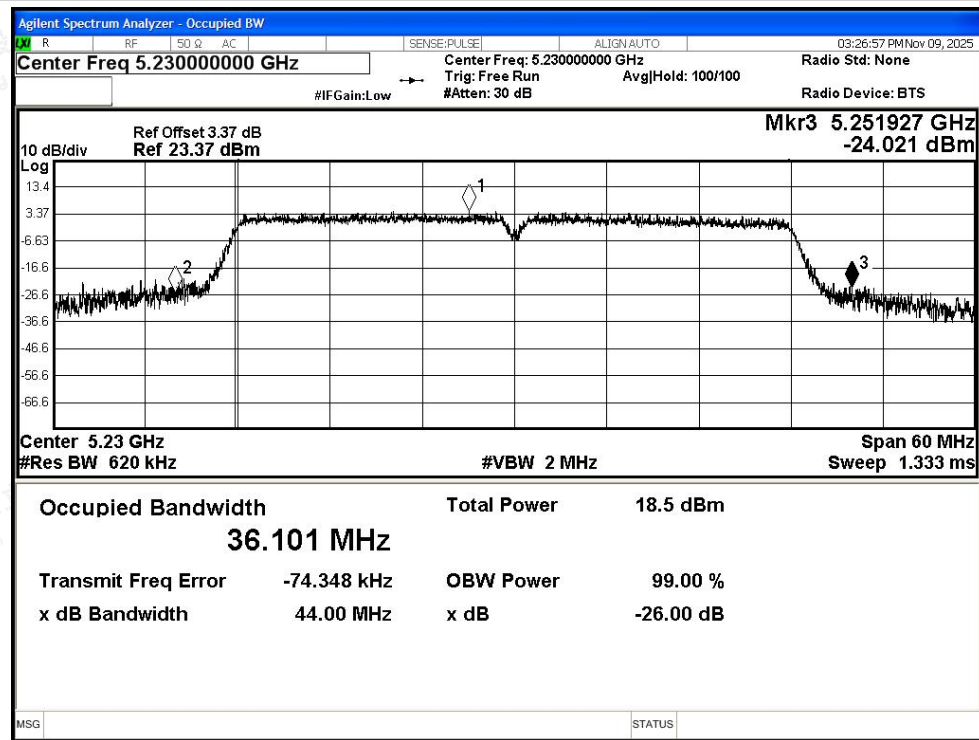
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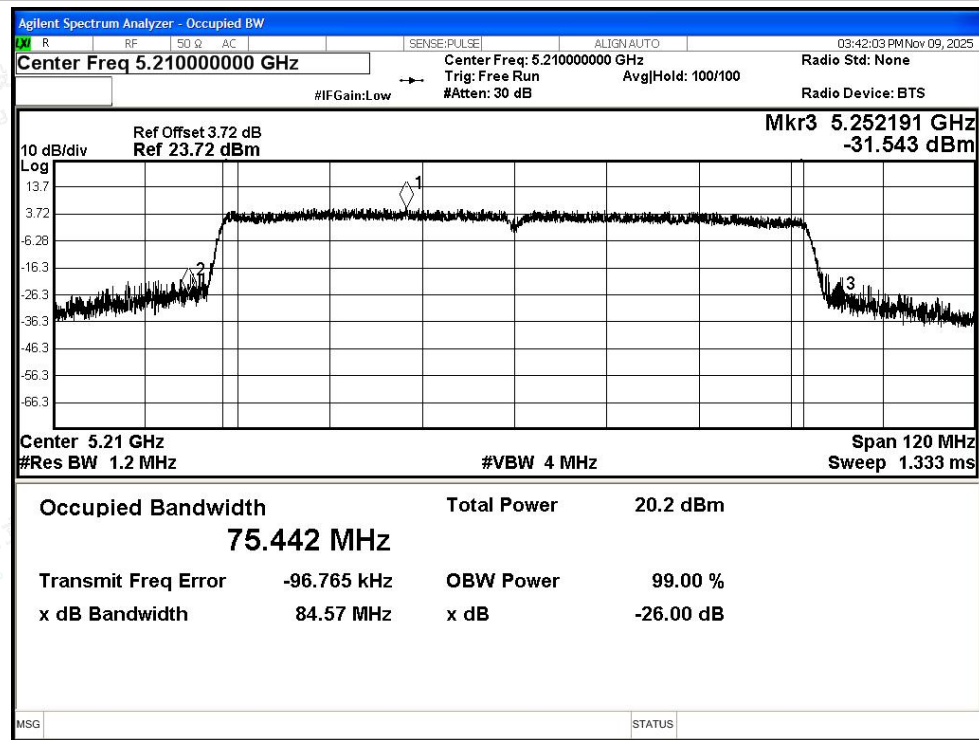
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-26dB Bandwidth NVNT ax40 5230MHz Ant1



-26dB Bandwidth NVNT ax80 5210MHz Ant1



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Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	25.959	---	Pass
NVNT	a	5200	Ant2	28.197	---	Pass
NVNT	a	5240	Ant2	24.842	---	Pass
NVNT	n20	5180	Ant2	28.956	---	Pass
NVNT	n20	5200	Ant2	28.091	---	Pass
NVNT	n20	5240	Ant2	26.252	---	Pass
NVNT	n40	5190	Ant2	43.747	---	Pass
NVNT	n40	5230	Ant2	43.222	---	Pass
NVNT	ac20	5180	Ant2	26.679	---	Pass
NVNT	ac20	5200	Ant2	27.822	---	Pass
NVNT	ac20	5240	Ant2	28.708	---	Pass
NVNT	ac40	5190	Ant2	43.393	---	Pass
NVNT	ac40	5230	Ant2	41.757	---	Pass
NVNT	ac80	5210	Ant2	84.688	---	Pass
NVNT	ax20	5180	Ant2	28.028	---	Pass
NVNT	ax20	5200	Ant2	27.486	---	Pass
NVNT	ax20	5240	Ant2	26.173	---	Pass
NVNT	ax40	5190	Ant2	45.737	---	Pass
NVNT	ax40	5230	Ant2	39.828	---	Pass
NVNT	ax80	5210	Ant2	85.011	---	Pass



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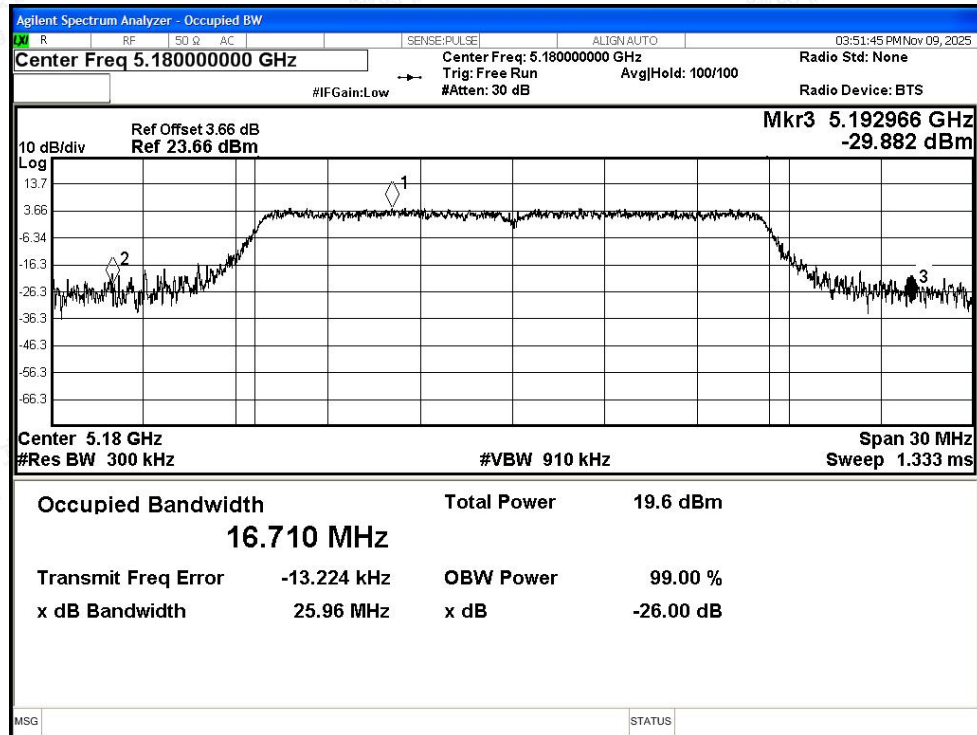
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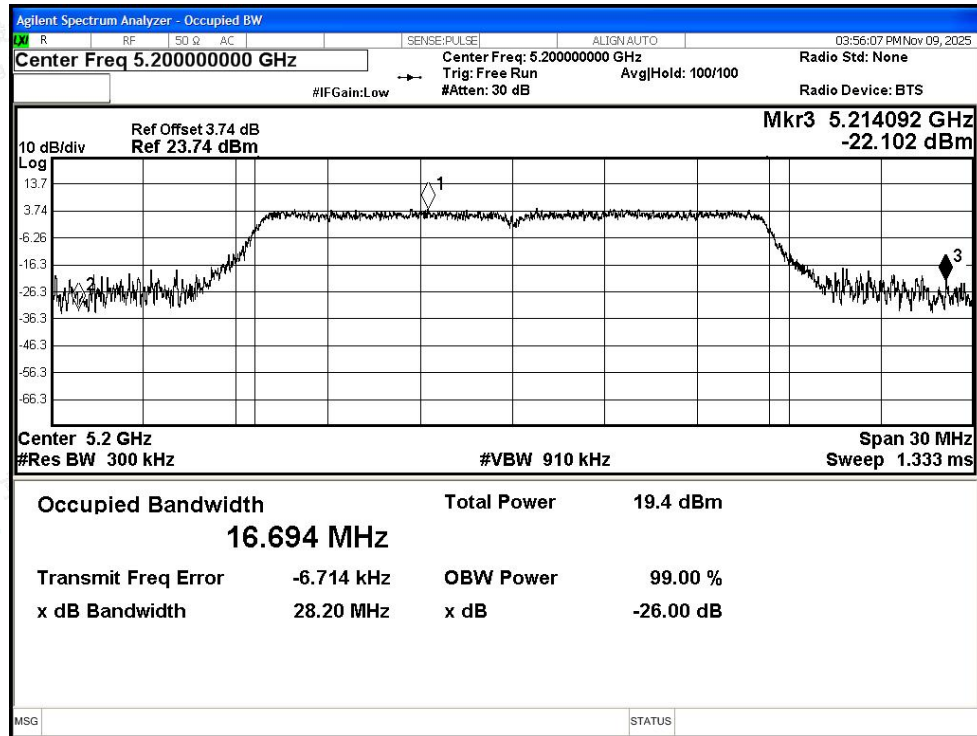


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2



-26dB Bandwidth NVNT a 5200MHz Ant2



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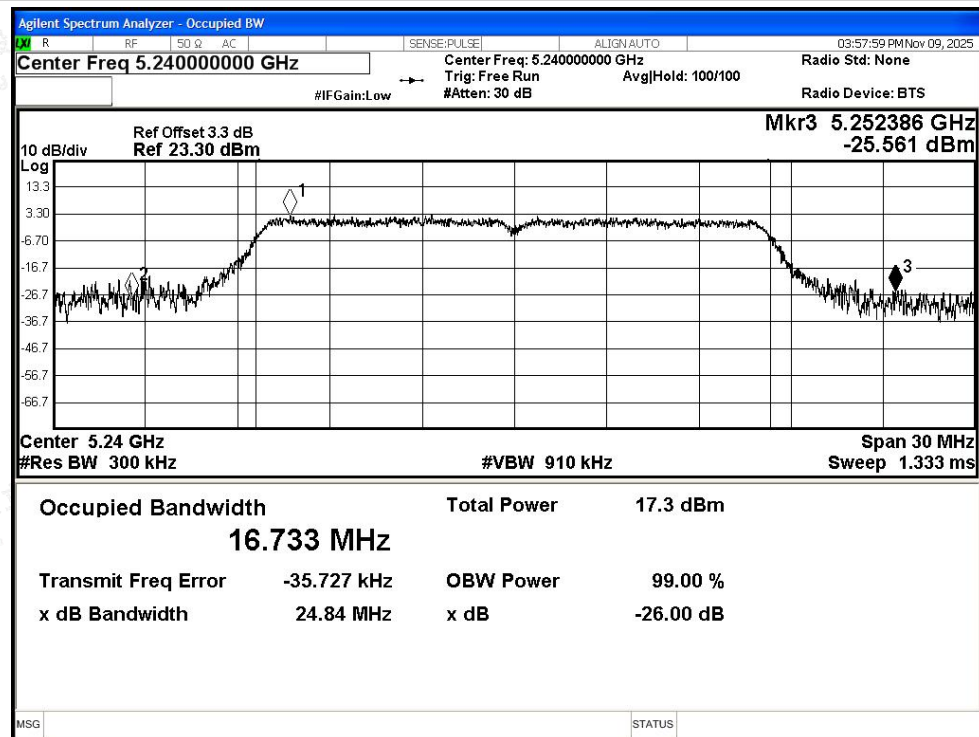
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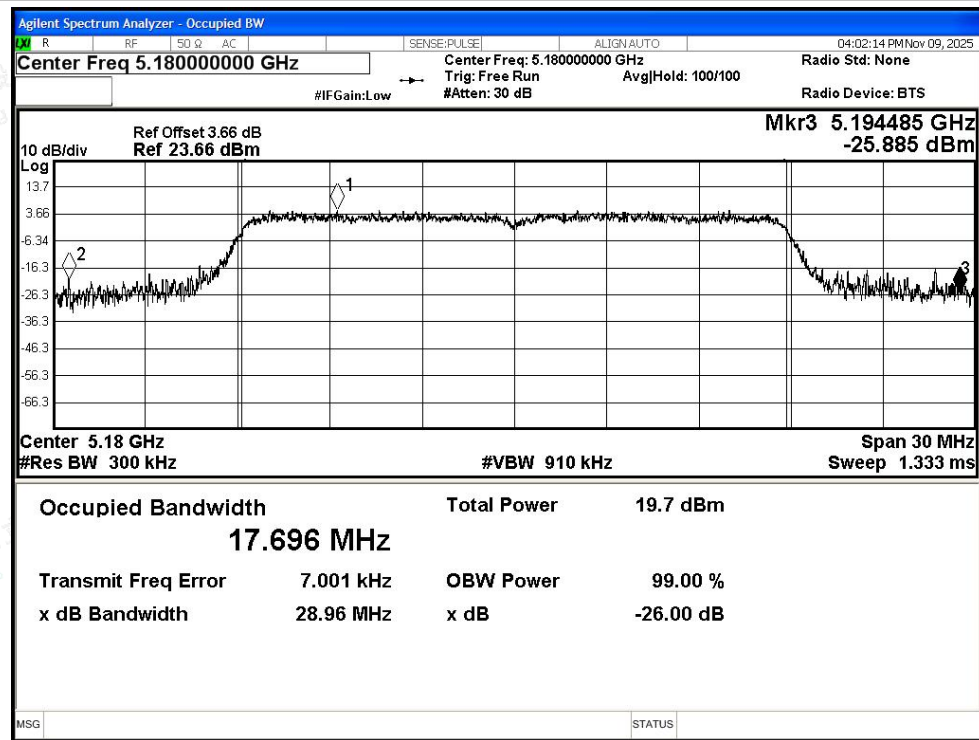
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant2



-26dB Bandwidth NVNT n20 5180MHz Ant2



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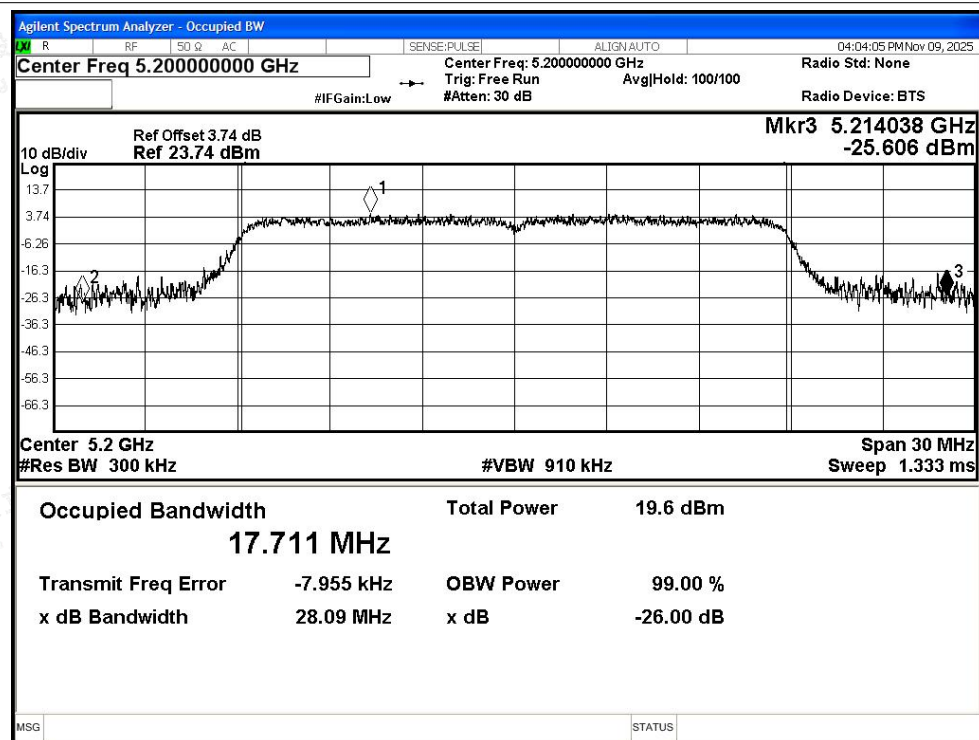
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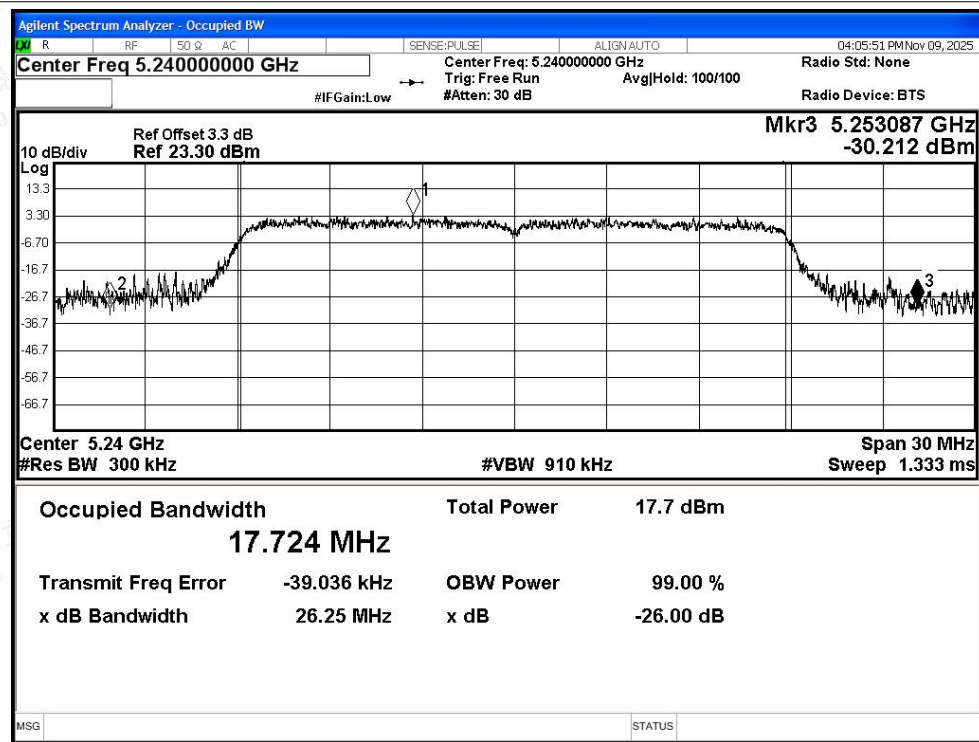
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant2



-26dB Bandwidth NVNT n20 5240MHz Ant2



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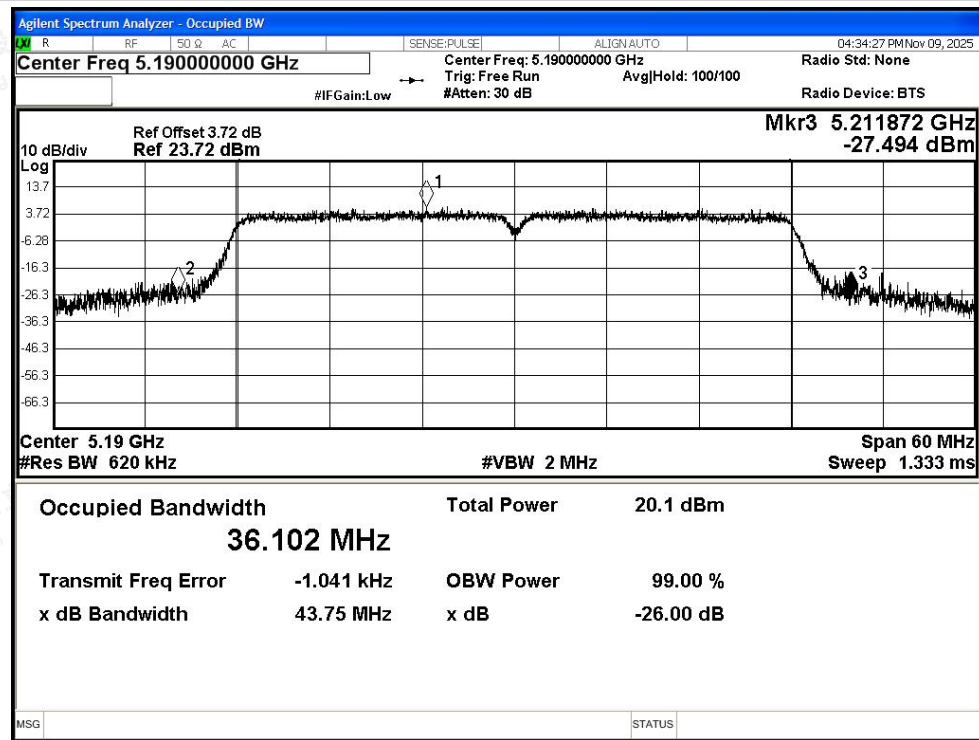
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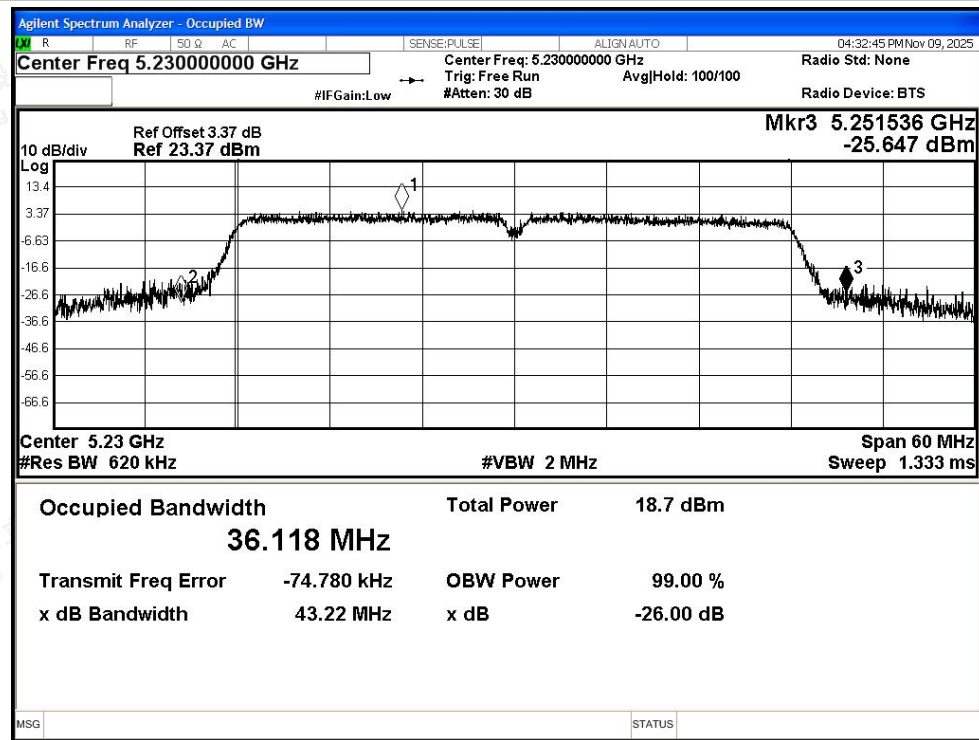
Scan code to check authenticity



-26dB Bandwidth NVNT n40 5190MHz Ant2



-26dB Bandwidth NVNT n40 5230MHz Ant2



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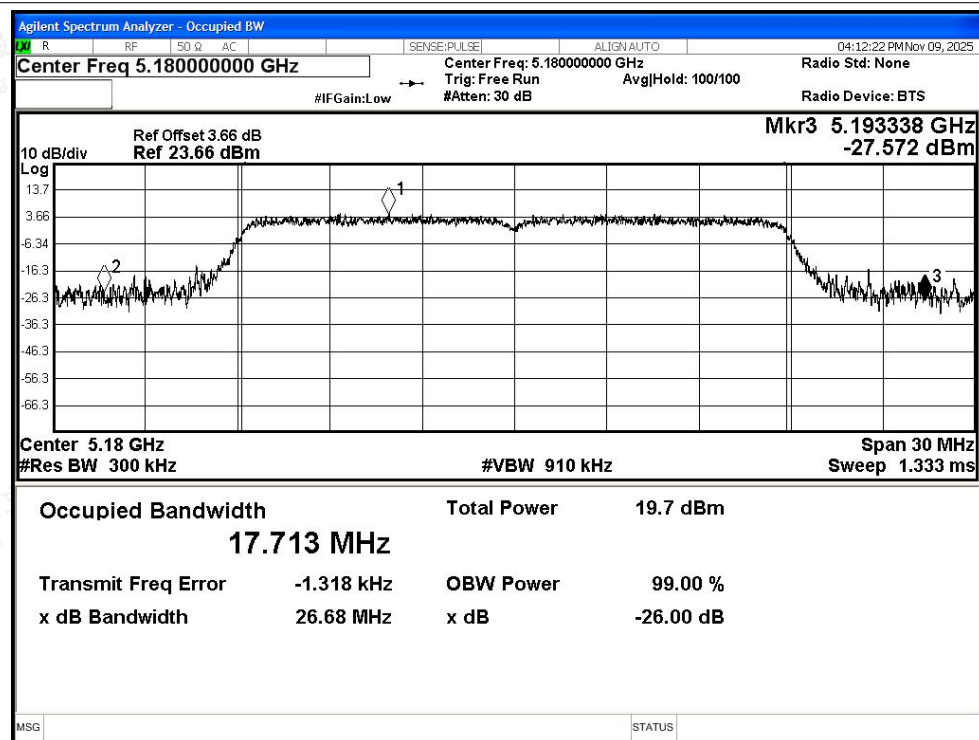
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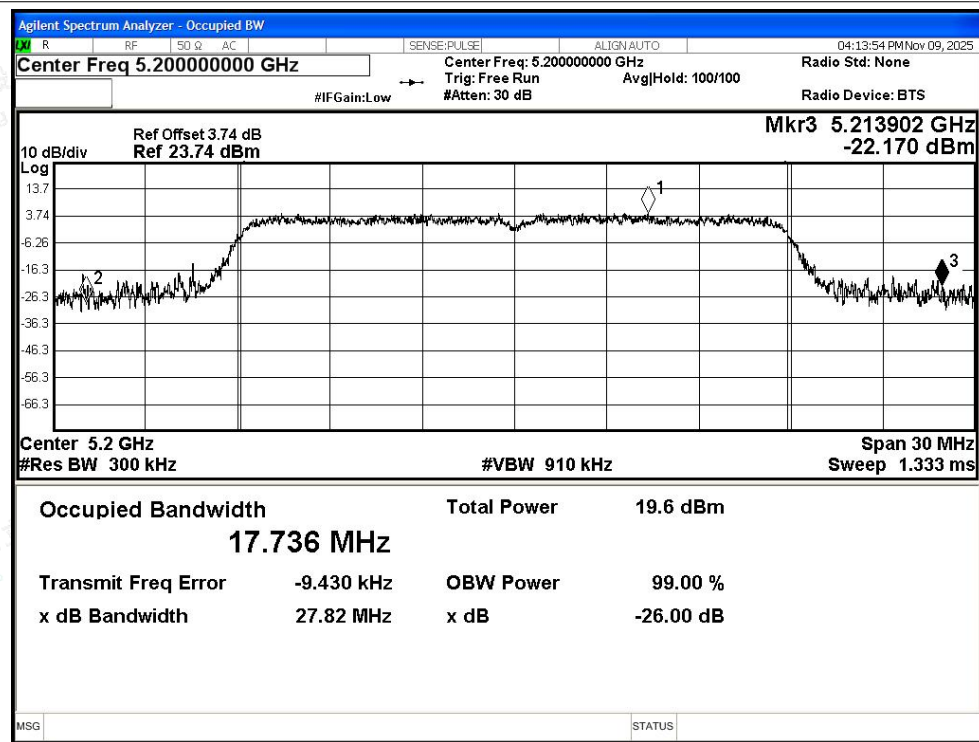
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5180MHz Ant2



-26dB Bandwidth NVNT ac20 5200MHz Ant2



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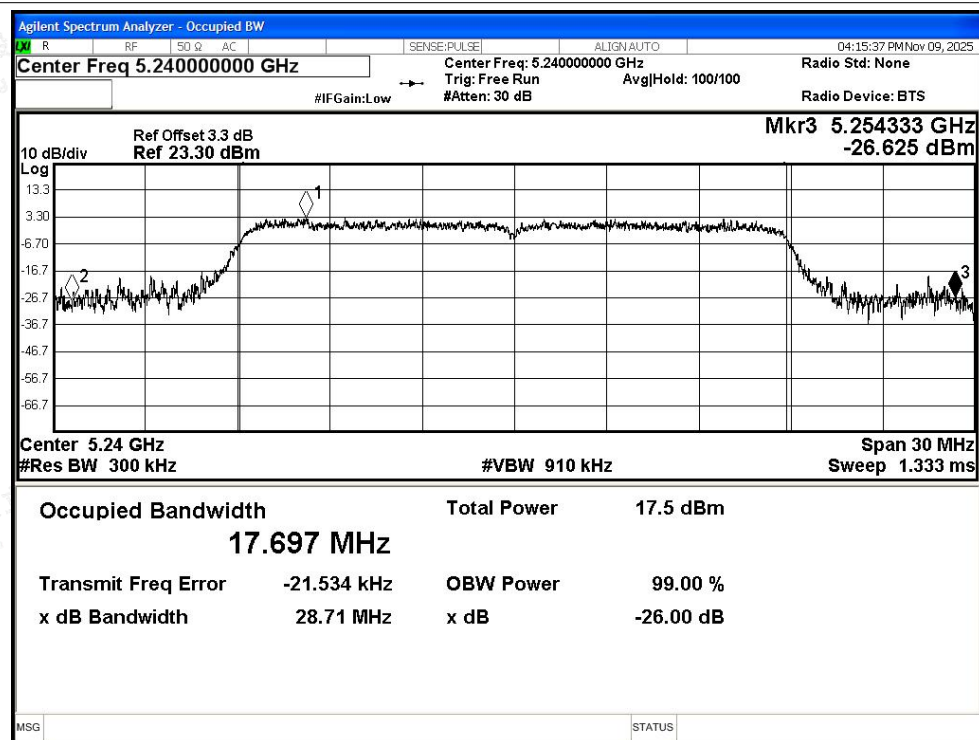
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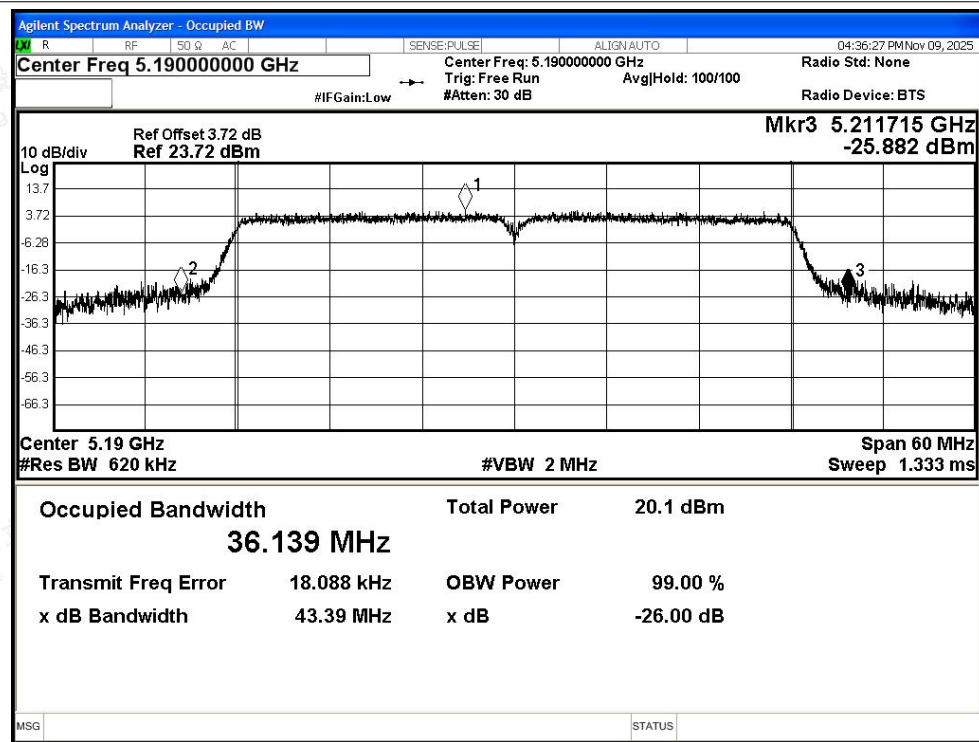
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5240MHz Ant2



-26dB Bandwidth NVNT ac40 5190MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

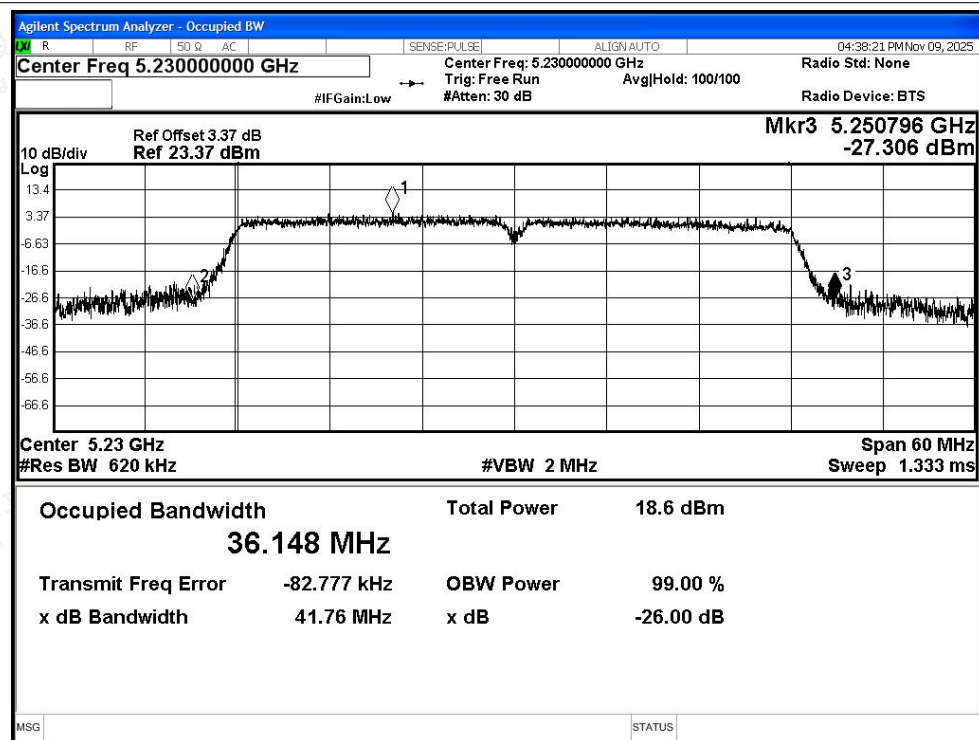
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

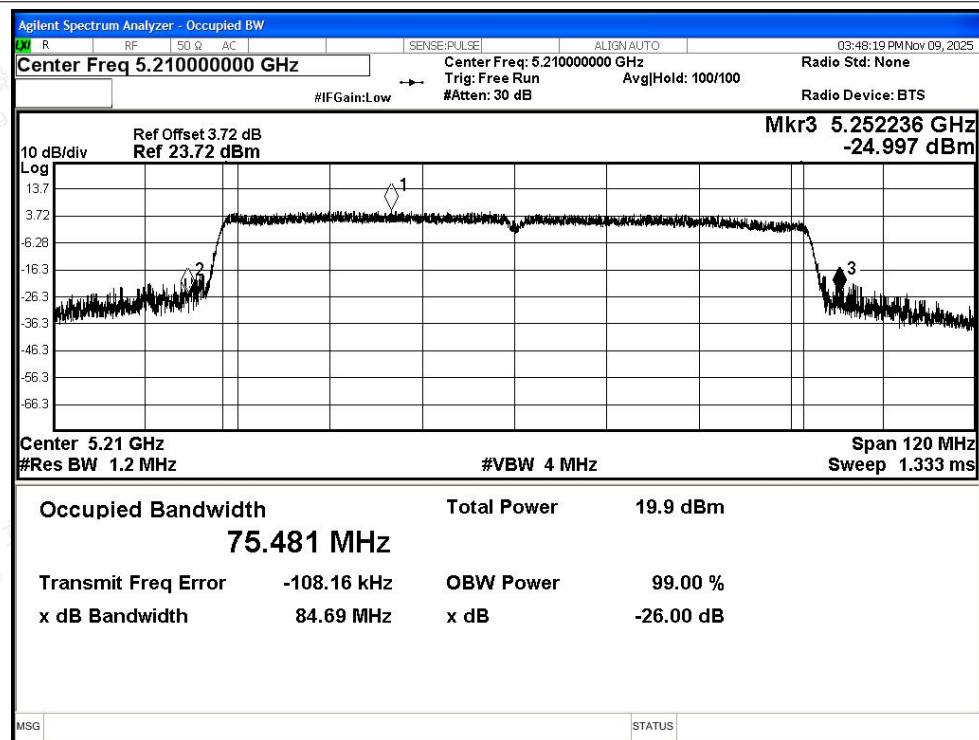
Scan code to check authenticity



-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

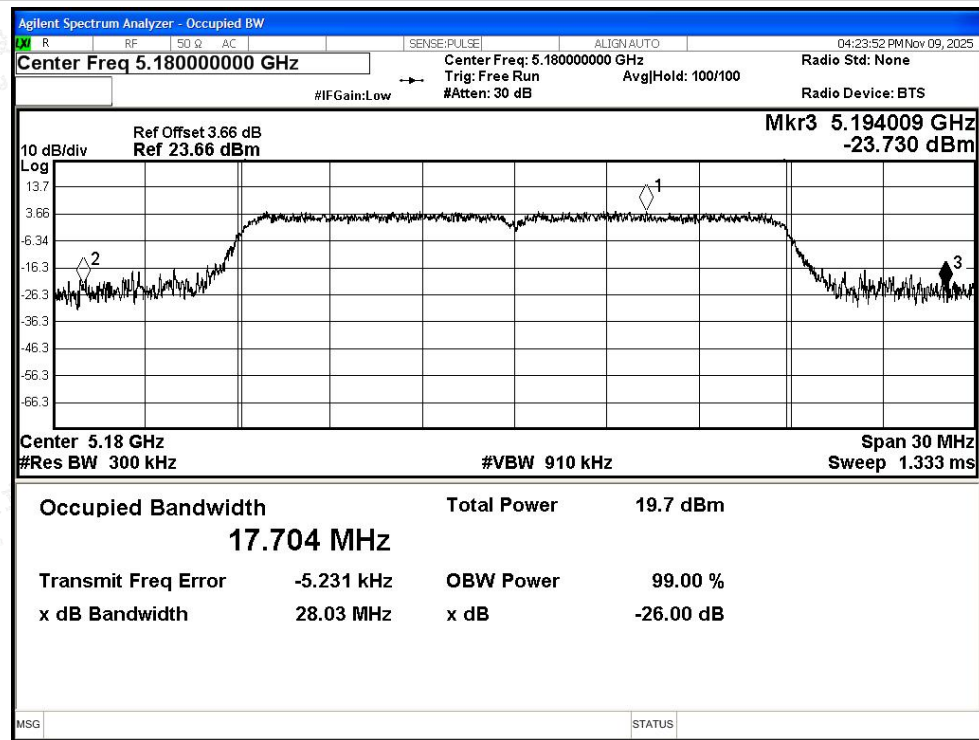
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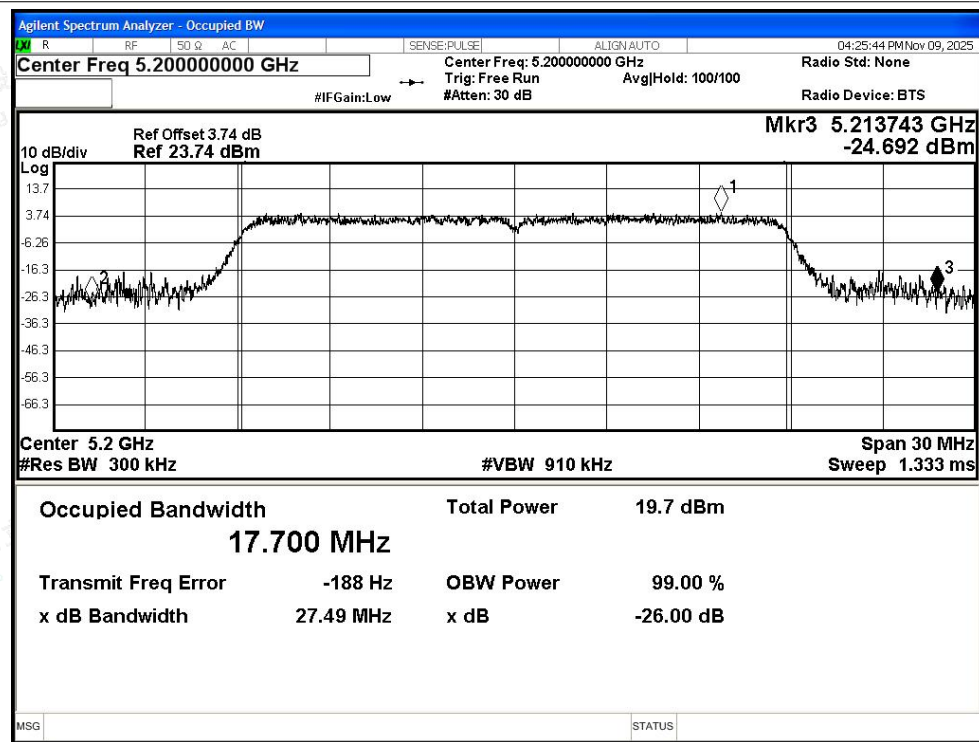
Scan code to check authenticity



-26dB Bandwidth NVNT ax20 5180MHz Ant2



-26dB Bandwidth NVNT ax20 5200MHz Ant2



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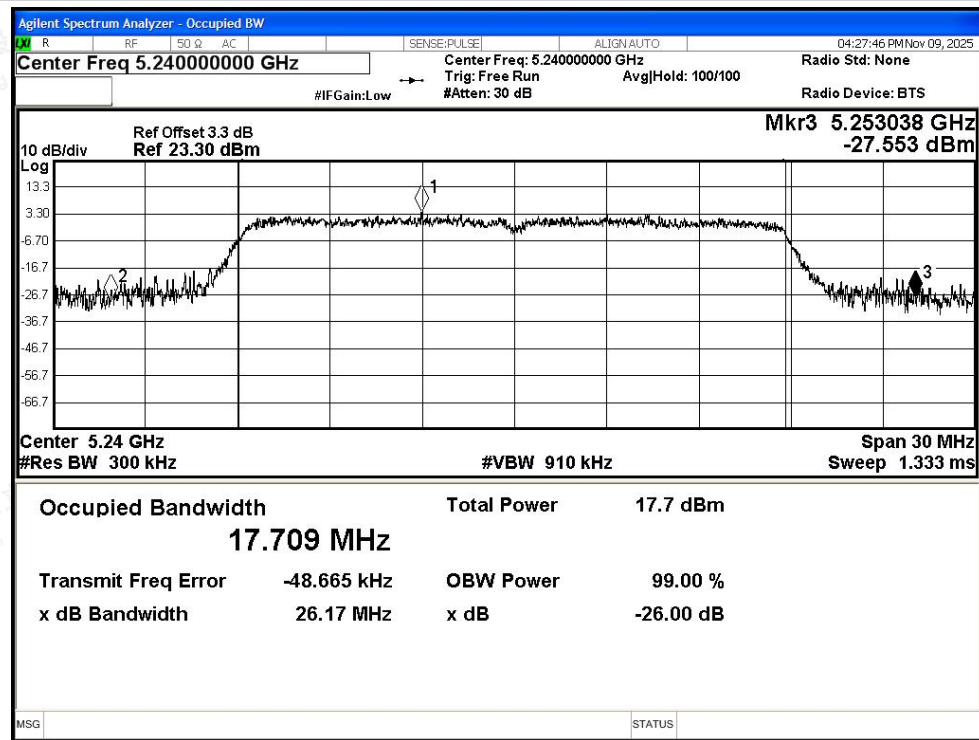
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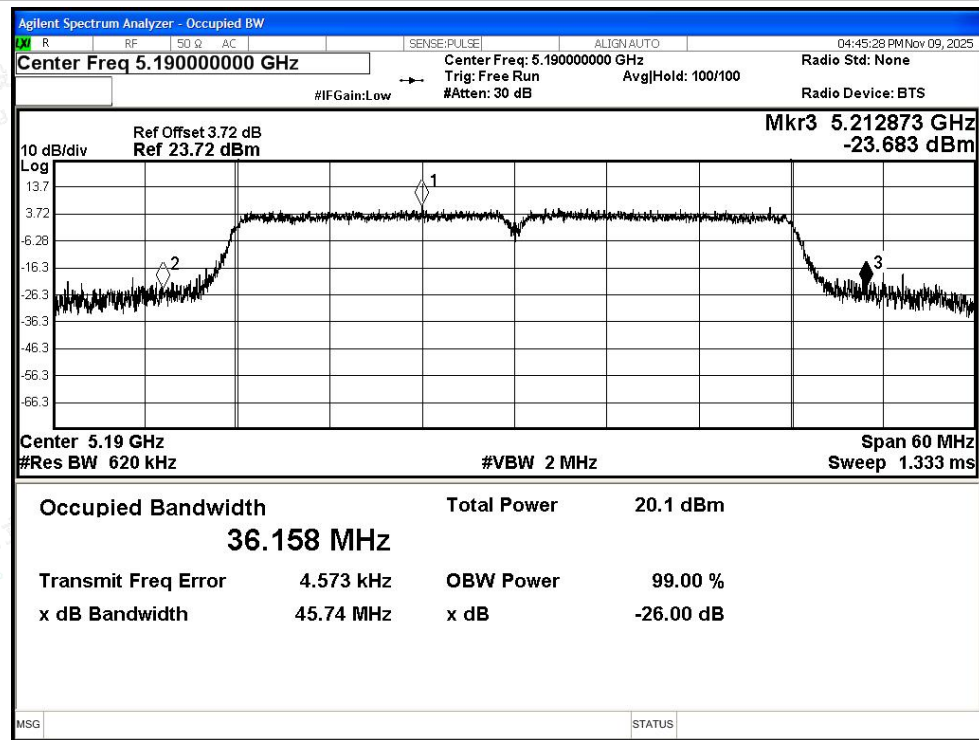
Scan code to check authenticity



-26dB Bandwidth NVNT ax20 5240MHz Ant2



-26dB Bandwidth NVNT ax40 5190MHz Ant2



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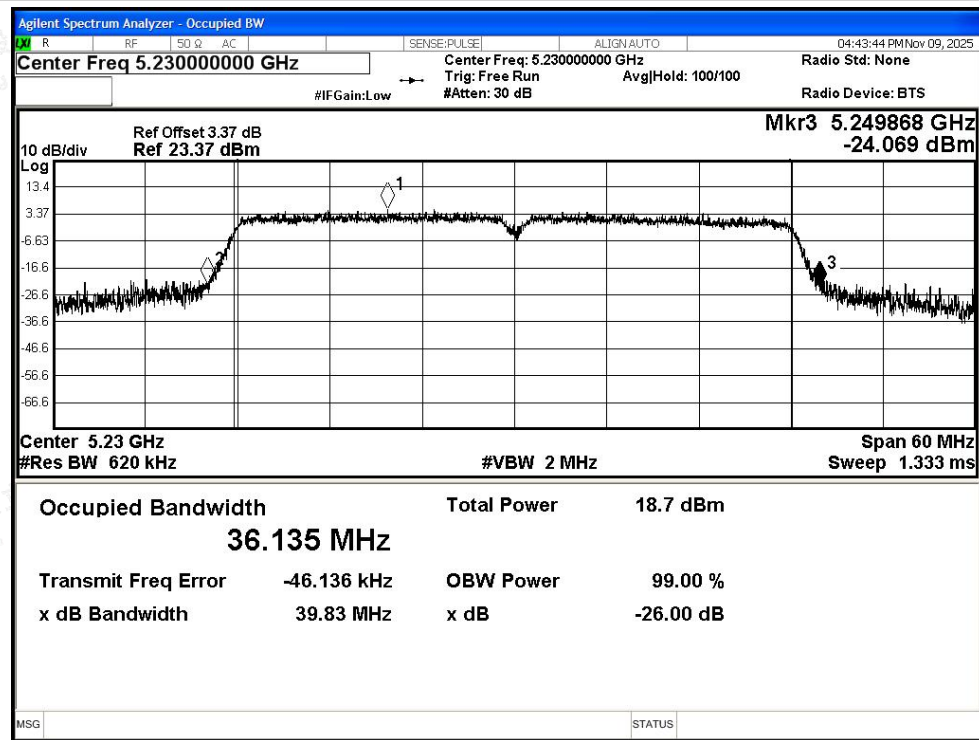
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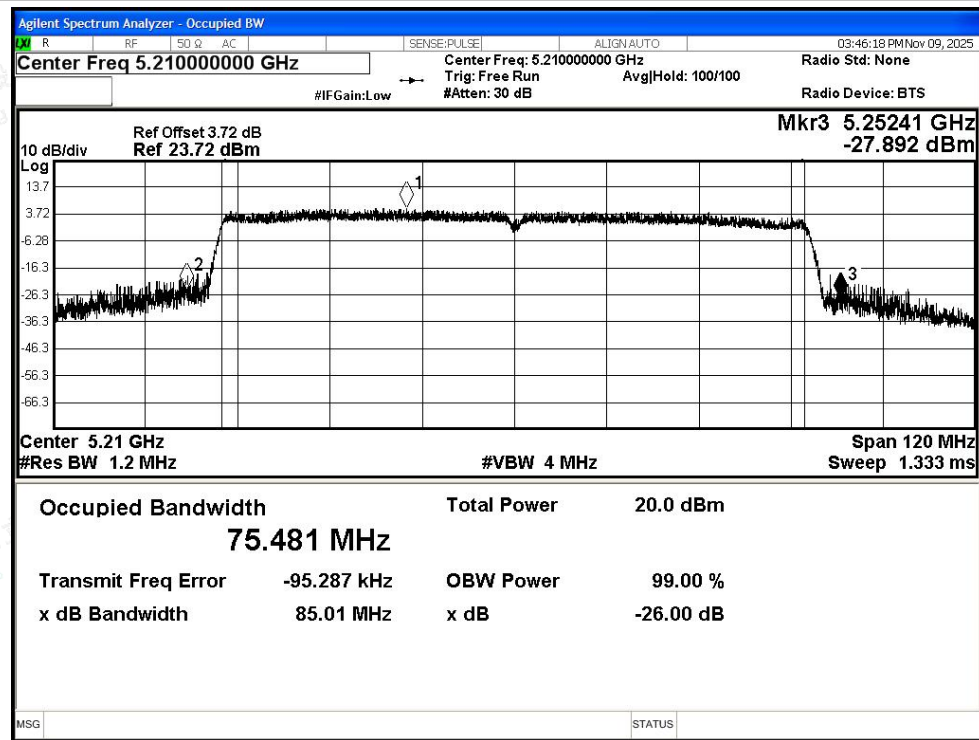
Scan code to check authenticity



-26dB Bandwidth NVNT ax40 5230MHz Ant2



-26dB Bandwidth NVNT ax80 5210MHz Ant2



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D.2 Maximum Conducted Output Power and e.i.r.p.

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	14	0.1	14.1	24	Pass
NVNT	a	5200	Ant1	13.8	0.1	13.9	24	Pass
NVNT	a	5240	Ant1	11.52	0.1	11.62	24	Pass
NVNT	n20	5180	Ant1	14.17	0.12	14.29	24	Pass
NVNT	n20	5200	Ant1	14.12	0.12	14.24	24	Pass
NVNT	n20	5240	Ant1	12.04	0.12	12.16	24	Pass
NVNT	n40	5190	Ant1	13.94	0.23	14.17	24	Pass
NVNT	n40	5230	Ant1	12.17	0.23	12.4	24	Pass
NVNT	ac20	5180	Ant1	14.19	0.12	14.31	24	Pass
NVNT	ac20	5200	Ant1	14.14	0.12	14.26	24	Pass
NVNT	ac20	5240	Ant1	11.86	0.12	11.98	24	Pass
NVNT	ac40	5190	Ant1	13.87	0.24	14.11	24	Pass
NVNT	ac40	5230	Ant1	11.99	0.23	12.22	24	Pass
NVNT	ac80	5210	Ant1	12.77	0.47	13.24	24	Pass
NVNT	ax20	5180	Ant1	14.16	0.12	14.28	24	Pass
NVNT	ax20	5200	Ant1	14.06	0.12	14.18	24	Pass
NVNT	ax20	5240	Ant1	11.89	0.12	12.01	24	Pass
NVNT	ax40	5190	Ant1	13.79	0.24	14.03	24	Pass
NVNT	ax40	5230	Ant1	11.99	0.24	12.23	24	Pass
NVNT	ax80	5210	Ant1	12.72	0.47	13.19	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	13.96	0.1	14.06	24	Pass
NVNT	a	5200	Ant2	13.87	0.1	13.97	24	Pass
NVNT	a	5240	Ant2	11.72	0.1	11.82	24	Pass
NVNT	n20	5180	Ant2	14.21	0.12	14.33	24	Pass
NVNT	n20	5200	Ant2	14.13	0.12	14.25	24	Pass
NVNT	n20	5240	Ant2	12.15	0.12	12.27	24	Pass
NVNT	n40	5190	Ant2	13.8	0.24	14.04	24	Pass
NVNT	n40	5230	Ant2	12.39	0.24	12.63	24	Pass
NVNT	ac20	5180	Ant2	14.15	0.12	14.27	24	Pass
NVNT	ac20	5200	Ant2	14.11	0.12	14.23	24	Pass
NVNT	ac20	5240	Ant2	11.89	0.12	12.01	24	Pass
NVNT	ac40	5190	Ant2	13.82	0.24	14.06	24	Pass
NVNT	ac40	5230	Ant2	12.08	0.23	12.31	24	Pass
NVNT	ac80	5210	Ant2	12.76	0.47	13.23	24	Pass
NVNT	ax20	5180	Ant2	14.27	0.12	14.39	24	Pass



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NVNT	ax20	5200	Ant2	14.2	0.12	14.32	24	Pass
NVNT	ax20	5240	Ant2	12.05	0.12	12.17	24	Pass
NVNT	ax40	5190	Ant2	13.78	0.24	14.02	24	Pass
NVNT	ax40	5230	Ant2	12.35	0.23	12.58	24	Pass
NVNT	ax80	5210	Ant2	12.8	0.47	13.27	24	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	14.29	14.33	17.32	24	Pass
NVNT	n20	5200	14.24	14.25	17.26	24	Pass
NVNT	n20	5240	12.16	12.27	15.23	24	Pass
NVNT	n40	5190	14.17	14.04	17.12	24	Pass
NVNT	n40	5230	12.4	12.63	15.53	24	Pass
NVNT	ac20	5180	14.31	14.27	17.30	24	Pass
NVNT	ac20	5200	14.26	14.23	17.26	24	Pass
NVNT	ac20	5240	11.98	12.01	15.01	24	Pass
NVNT	ac40	5190	14.11	14.06	17.10	24	Pass
NVNT	ac40	5230	12.22	12.31	15.28	24	Pass
NVNT	ac80	5210	13.24	13.23	16.25	24	Pass
NVNT	ax20	5180	14.28	14.39	17.35	24	Pass
NVNT	ax20	5200	14.18	14.32	17.26	24	Pass
NVNT	ax20	5240	12.01	12.17	15.10	24	Pass
NVNT	ax40	5190	14.03	14.02	17.04	24	Pass
NVNT	ax40	5230	12.23	12.58	15.42	24	Pass
NVNT	ax80	5210	13.19	13.27	16.24	24	Pass



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D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-3.36	0.1	-3.26	11	Pass
NVNT	a	5200	Ant1	-3.47	0.1	-3.37	11	Pass
NVNT	a	5240	Ant1	-4.26	0.1	-4.16	11	Pass
NVNT	n20	5180	Ant1	-3.12	0.12	-3	11	Pass
NVNT	n20	5200	Ant1	-3.18	0.12	-3.06	11	Pass
NVNT	n20	5240	Ant1	-3.92	0.12	-3.8	11	Pass
NVNT	n40	5190	Ant1	-5.85	0.23	-5.62	11	Pass
NVNT	n40	5230	Ant1	-6.88	0.23	-6.65	11	Pass
NVNT	ac20	5180	Ant1	-2.98	0.12	-2.86	11	Pass
NVNT	ac20	5200	Ant1	-2.86	0.12	-2.74	11	Pass
NVNT	ac20	5240	Ant1	-3.87	0.12	-3.75	11	Pass
NVNT	ac40	5190	Ant1	-6.26	0.24	-6.02	11	Pass
NVNT	ac40	5230	Ant1	-6.72	0.23	-6.49	11	Pass
NVNT	ac80	5210	Ant1	-9.59	0.47	-9.12	11	Pass
NVNT	ax20	5180	Ant1	-2.92	0.12	-2.8	11	Pass
NVNT	ax20	5200	Ant1	-2.96	0.12	-2.84	11	Pass
NVNT	ax20	5240	Ant1	-3.7	0.12	-3.58	11	Pass
NVNT	ax40	5190	Ant1	-6.18	0.24	-5.94	11	Pass
NVNT	ax40	5230	Ant1	-6.62	0.24	-6.38	11	Pass
NVNT	ax80	5210	Ant1	-9.39	0.47	-8.92	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	-2.63	0.1	-2.53	11	Pass
NVNT	a	5200	Ant2	-3.39	0.1	-3.29	11	Pass
NVNT	a	5240	Ant2	-3.88	0.1	-3.78	11	Pass
NVNT	n20	5180	Ant2	-3.12	0.12	-3	11	Pass
NVNT	n20	5200	Ant2	-3.12	0.12	-3	11	Pass
NVNT	n20	5240	Ant2	-3.84	0.12	-3.72	11	Pass
NVNT	n40	5190	Ant2	-6.13	0.24	-5.89	11	Pass
NVNT	n40	5230	Ant2	-6.85	0.24	-6.61	11	Pass
NVNT	ac20	5180	Ant2	-2.92	0.12	-2.8	11	Pass
NVNT	ac20	5200	Ant2	-3.24	0.12	-3.12	11	Pass
NVNT	ac20	5240	Ant2	-3.68	0.12	-3.56	11	Pass
NVNT	ac40	5190	Ant2	-6.2	0.24	-5.96	11	Pass
NVNT	ac40	5230	Ant2	-6.91	0.23	-6.68	11	Pass
NVNT	ac80	5210	Ant2	-9.27	0.47	-8.8	11	Pass



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NVNT	ax20	5180	Ant2	-2.96	0.12	-2.84	11	Pass
NVNT	ax20	5200	Ant2	-2.95	0.12	-2.83	11	Pass
NVNT	ax20	5240	Ant2	-3.88	0.12	-3.76	11	Pass
NVNT	ax40	5190	Ant2	-6.19	0.24	-5.95	11	Pass
NVNT	ax40	5230	Ant2	-6.93	0.23	-6.7	11	Pass
NVNT	ax80	5210	Ant2	-9.6	0.47	-9.13	11	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	-3	-3	0.01	8.41	Pass
NVNT	n20	5200	-3.06	-3	-0.02	8.41	Pass
NVNT	n20	5240	-3.8	-3.72	-0.75	8.41	Pass
NVNT	n40	5190	-5.62	-5.89	-2.74	8.41	Pass
NVNT	n40	5230	-6.65	-6.61	-3.62	8.41	Pass
NVNT	ac20	5180	-2.86	-2.8	0.18	8.41	Pass
NVNT	ac20	5200	-2.74	-3.12	0.08	8.41	Pass
NVNT	ac20	5240	-3.75	-3.56	-0.64	8.41	Pass
NVNT	ac40	5190	-6.02	-5.96	-2.98	8.41	Pass
NVNT	ac40	5230	-6.49	-6.68	-3.57	8.41	Pass
NVNT	ac80	5210	-9.12	-8.8	-5.95	8.41	Pass
NVNT	ax20	5180	-2.8	-2.84	0.19	8.41	Pass
NVNT	ax20	5200	-2.84	-2.83	0.18	8.41	Pass
NVNT	ax20	5240	-3.58	-3.76	-0.66	8.41	Pass
NVNT	ax40	5190	-5.94	-5.95	-2.93	8.41	Pass
NVNT	ax40	5230	-6.38	-6.7	-3.53	8.41	Pass
NVNT	ax80	5210	-8.92	-9.13	-6.01	8.41	Pass



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EIRP MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	1.55	2.58	5.11	7.41	Pass
NVNT	n20	5200	1.49	2.58	5.08	7.41	Pass
NVNT	n20	5240	0.75	1.86	4.35	7.41	Pass
NVNT	n40	5190	-1.07	-0.31	2.34	7.41	Pass
NVNT	n40	5230	-2.1	-1.03	1.48	7.41	Pass
NVNT	ac20	5180	1.69	2.78	5.28	7.41	Pass
NVNT	ac20	5200	1.81	2.46	5.16	7.41	Pass
NVNT	ac20	5240	0.8	2.02	4.46	7.41	Pass
NVNT	ac40	5190	-1.47	-0.38	2.12	7.41	Pass
NVNT	ac40	5230	-1.94	-1.1	1.51	7.41	Pass
NVNT	ac80	5210	-4.57	-3.22	-0.83	7.41	Pass
NVNT	ax20	5180	1.75	2.74	5.28	7.41	Pass
NVNT	ax20	5200	1.71	2.75	5.27	7.41	Pass
NVNT	ax20	5240	0.97	1.82	4.43	7.41	Pass
NVNT	ax40	5190	-1.39	-0.37	2.16	7.41	Pass
NVNT	ax40	5230	-1.83	-1.12	1.55	7.41	Pass
NVNT	ax80	5210	-4.37	-3.55	-0.93	7.41	Pass

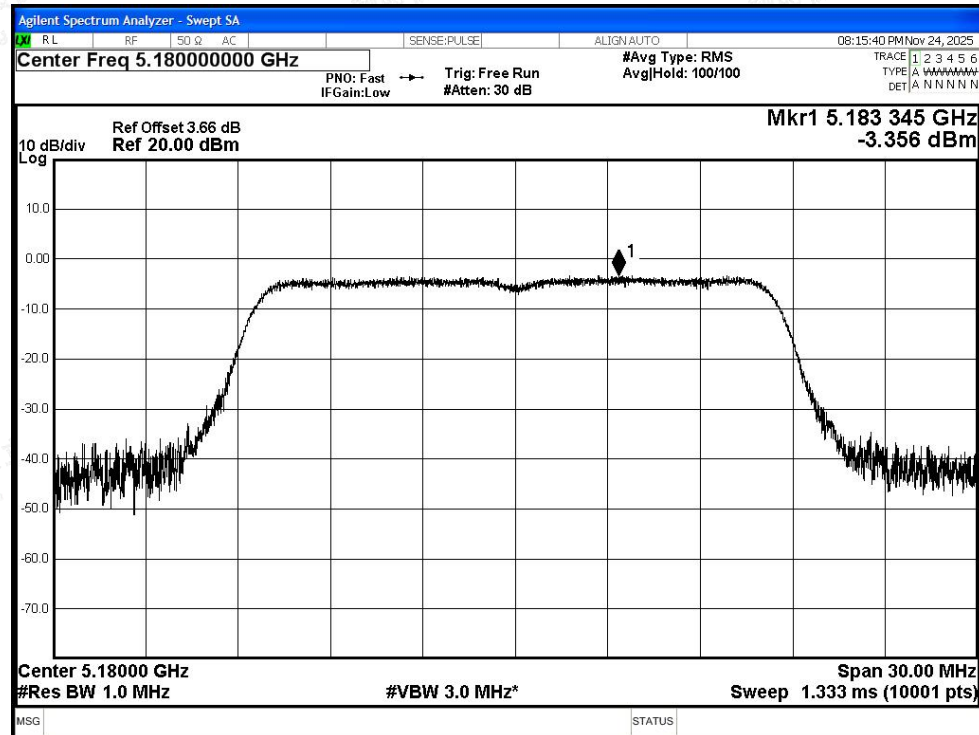


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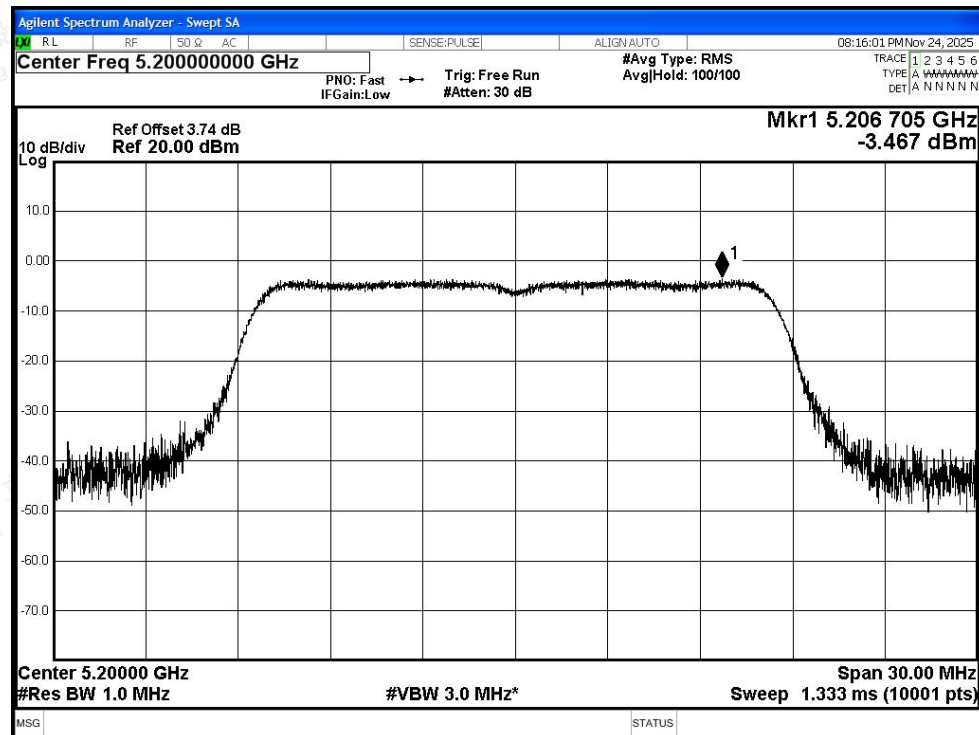


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1

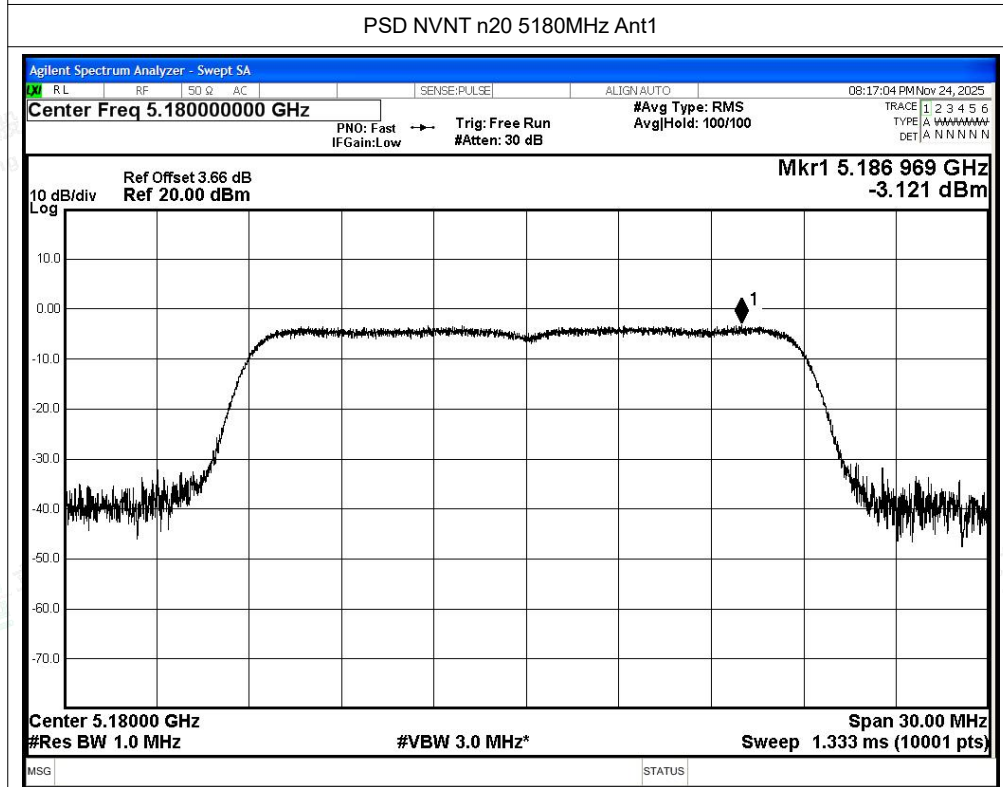
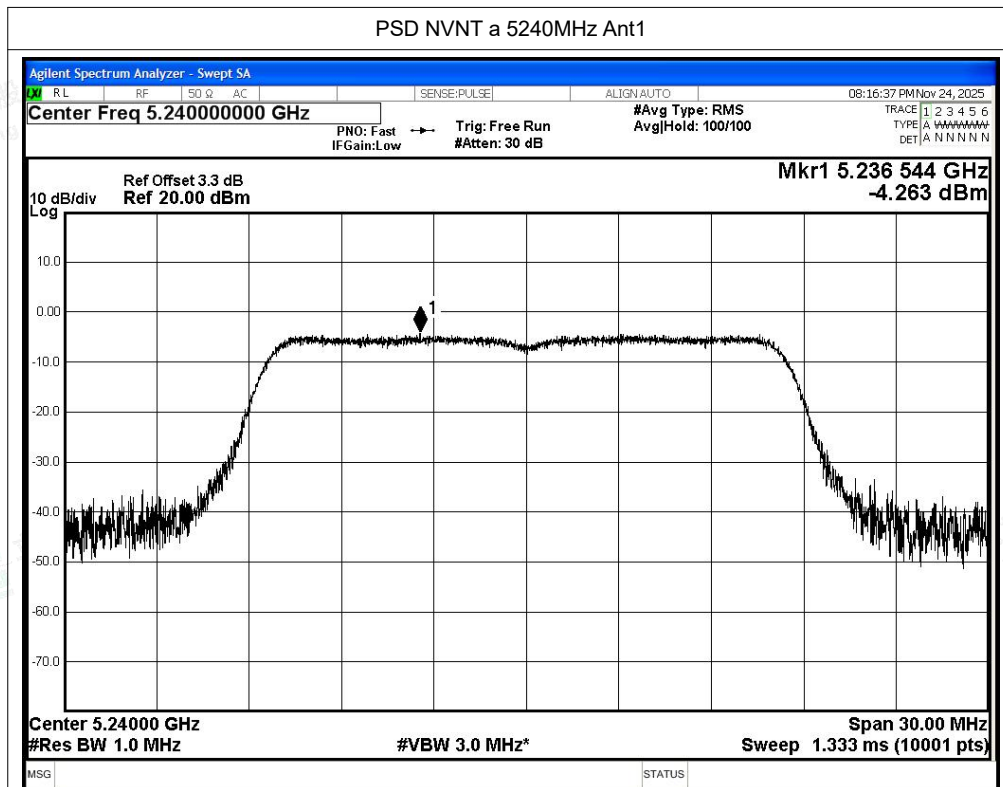


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