



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Smart Projector

Test Model: Y01

Environmental Conditions

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





D.1 -26dB Bandwidth

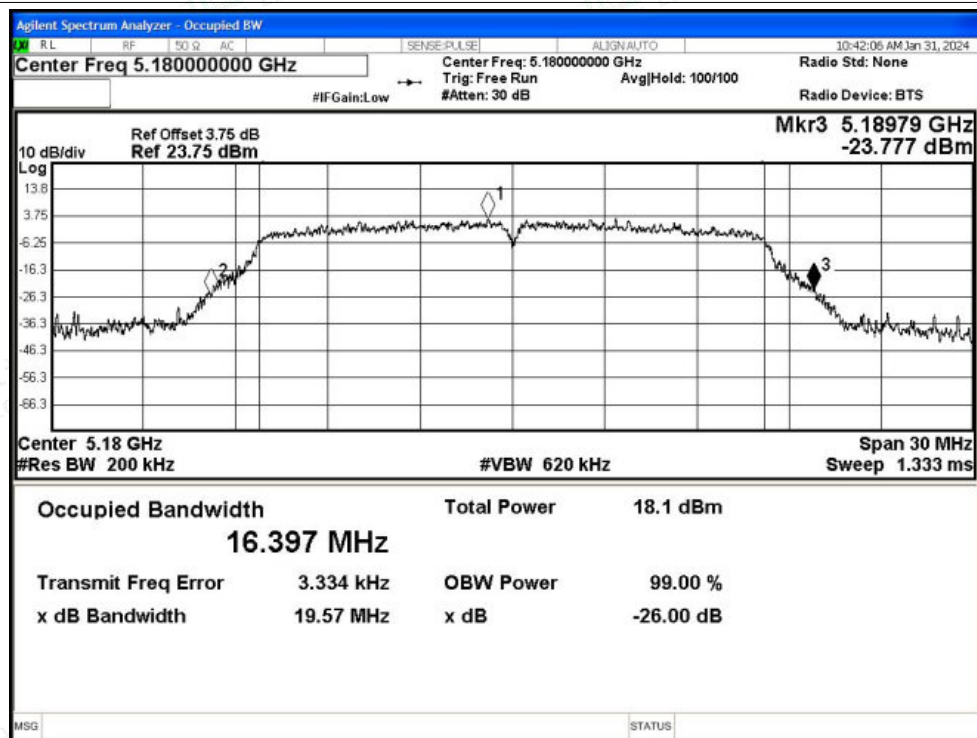
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant0	19.573	---	Pass
NVNT	a	5200	Ant0	19.865	---	Pass
NVNT	a	5240	Ant0	19.572	---	Pass
NVNT	n20	5180	Ant0	19.96	---	Pass
NVNT	n20	5200	Ant0	20.068	---	Pass
NVNT	n20	5240	Ant0	20.585	---	Pass
NVNT	n40	5190	Ant0	40.052	---	Pass
NVNT	n40	5230	Ant0	40.664	---	Pass
NVNT	ac20	5180	Ant0	20.129	---	Pass
NVNT	ac20	5200	Ant0	20.129	---	Pass
NVNT	ac20	5240	Ant0	19.96	---	Pass
NVNT	ac40	5190	Ant0	40.084	---	Pass
NVNT	ac40	5230	Ant0	40.139	---	Pass
NVNT	ac80	5210	Ant0	80.321	---	Pass



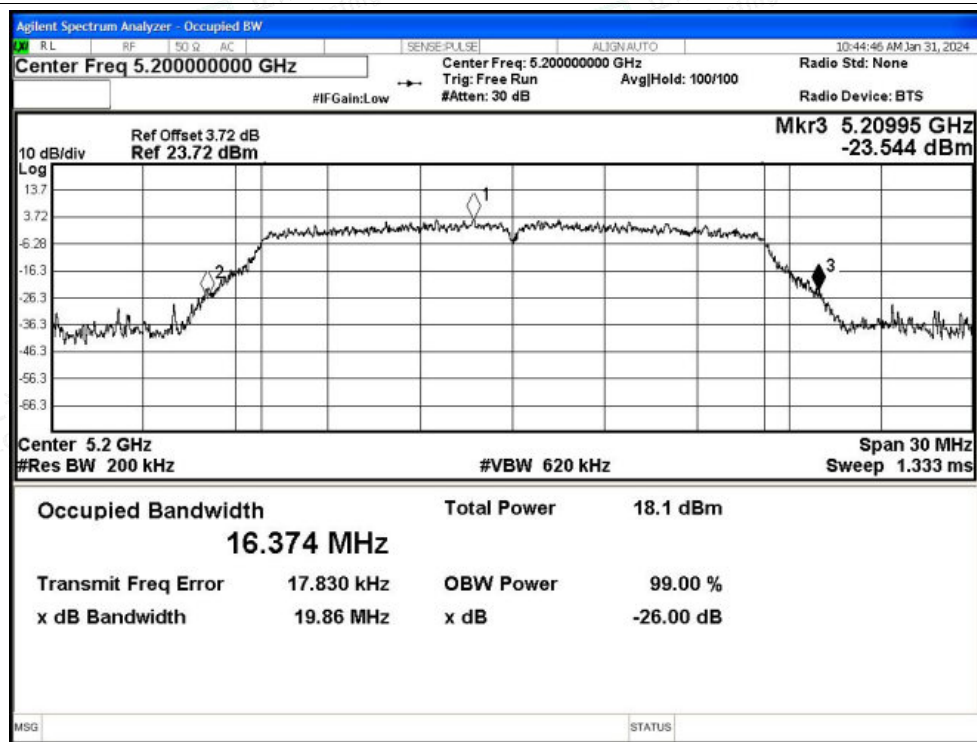


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant0



-26dB Bandwidth NVNT a 5200MHz Ant0



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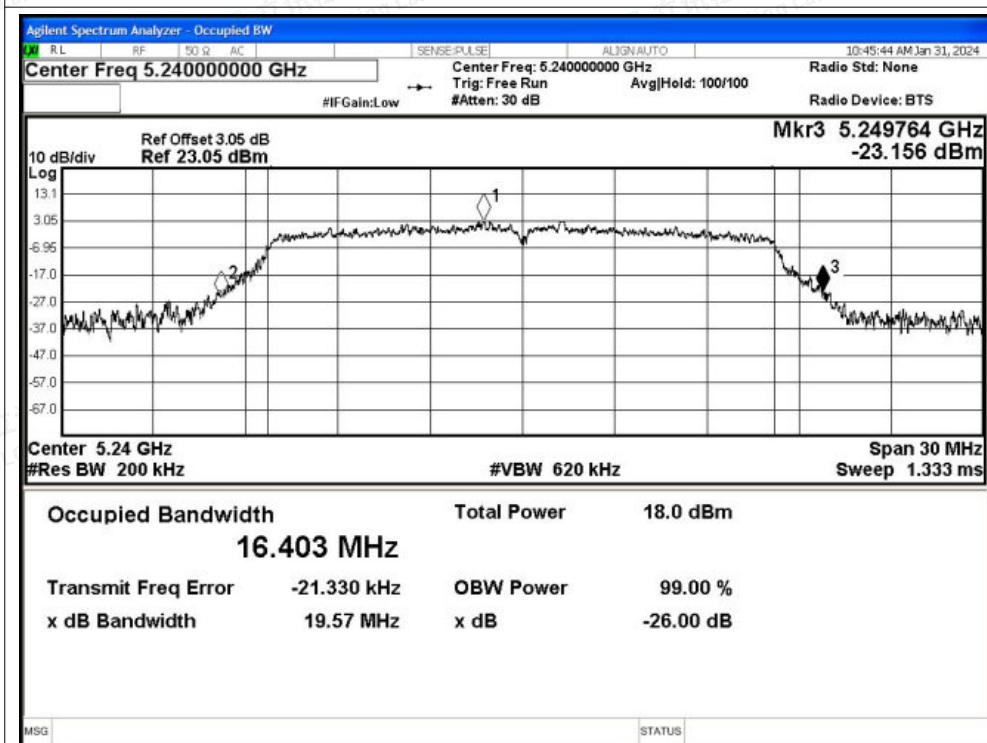
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

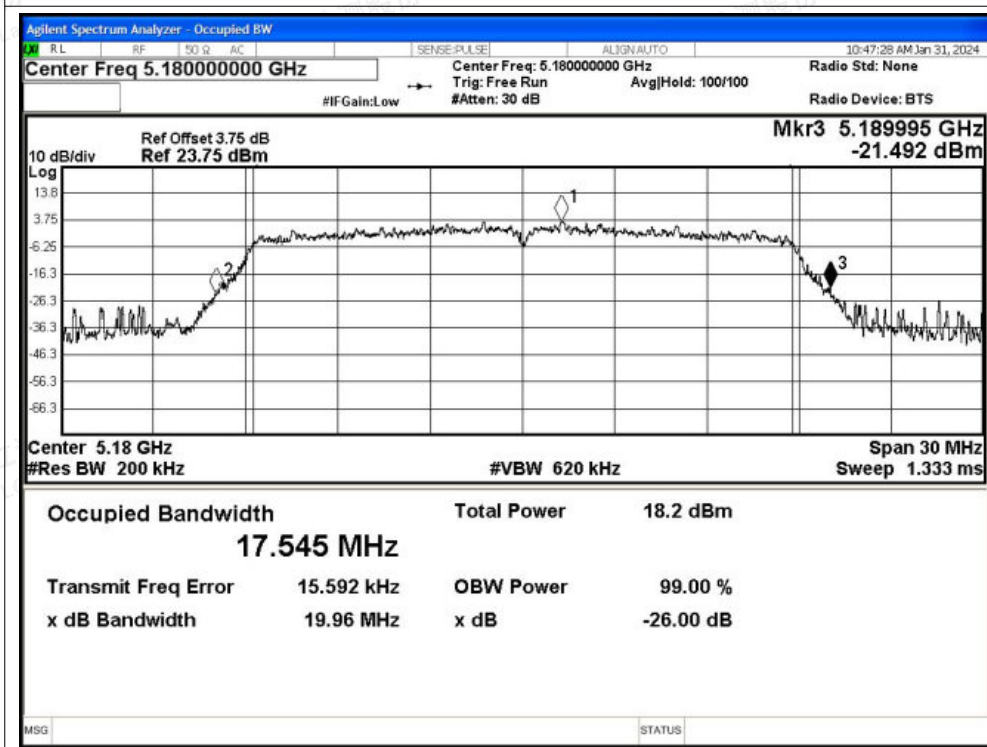
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant0



-26dB Bandwidth NVNT n20 5180MHz Ant0



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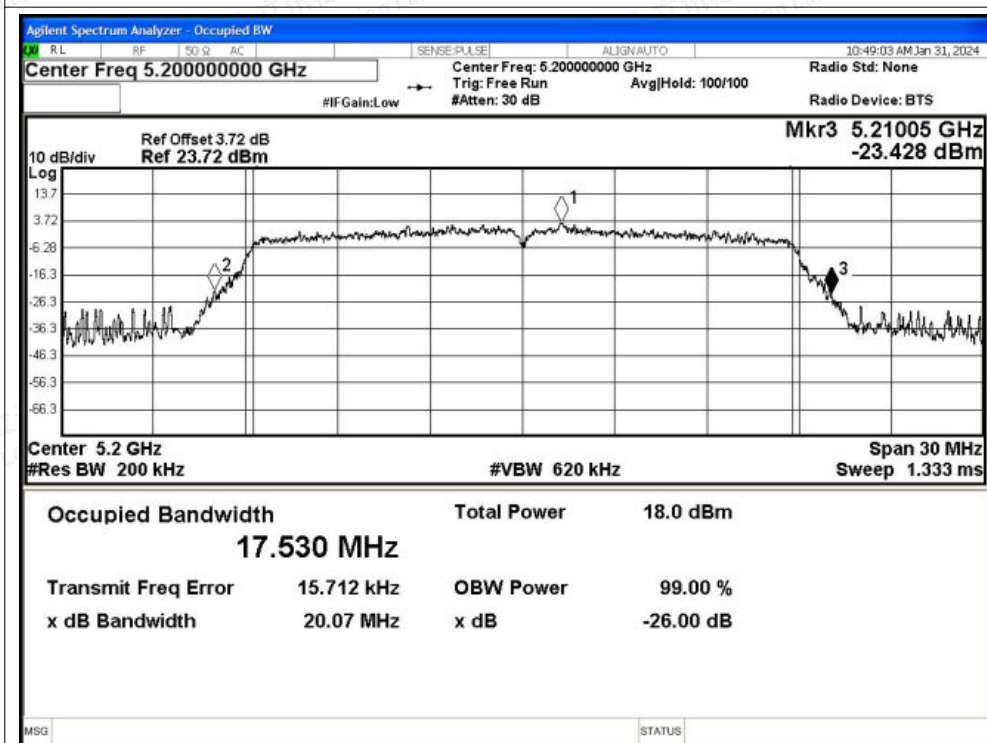
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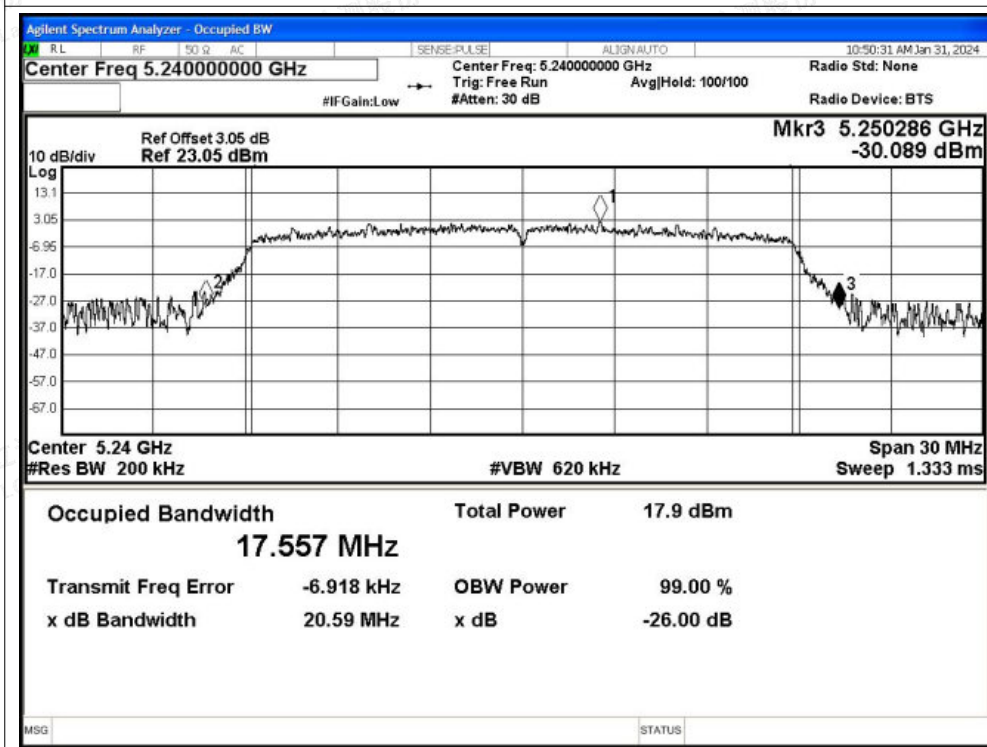
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant0



-26dB Bandwidth NVNT n20 5240MHz Ant0



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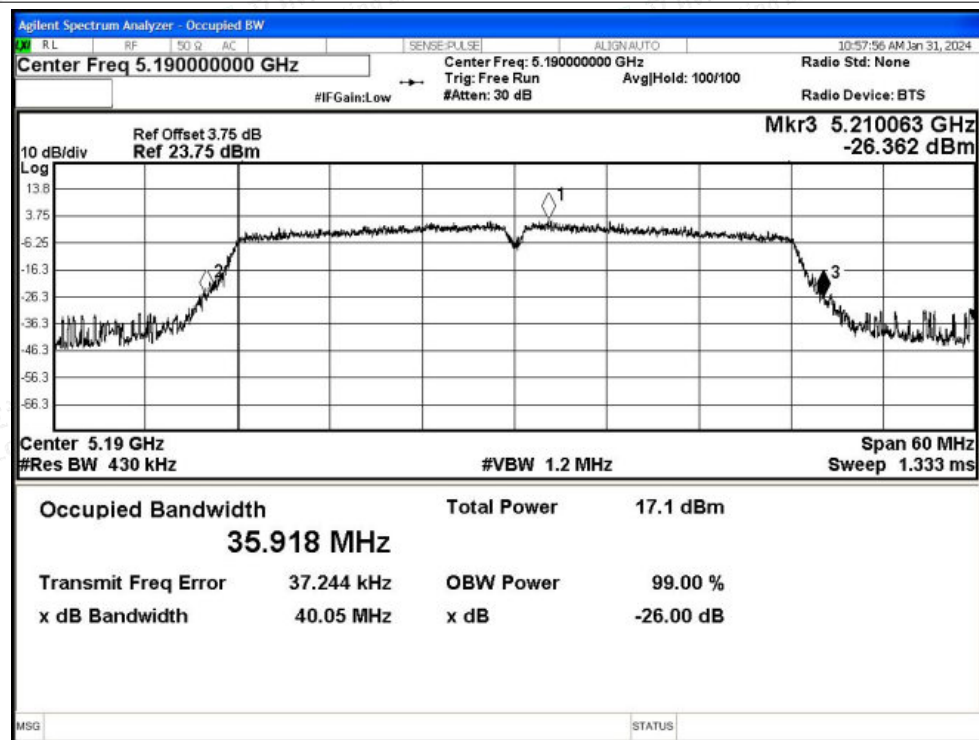
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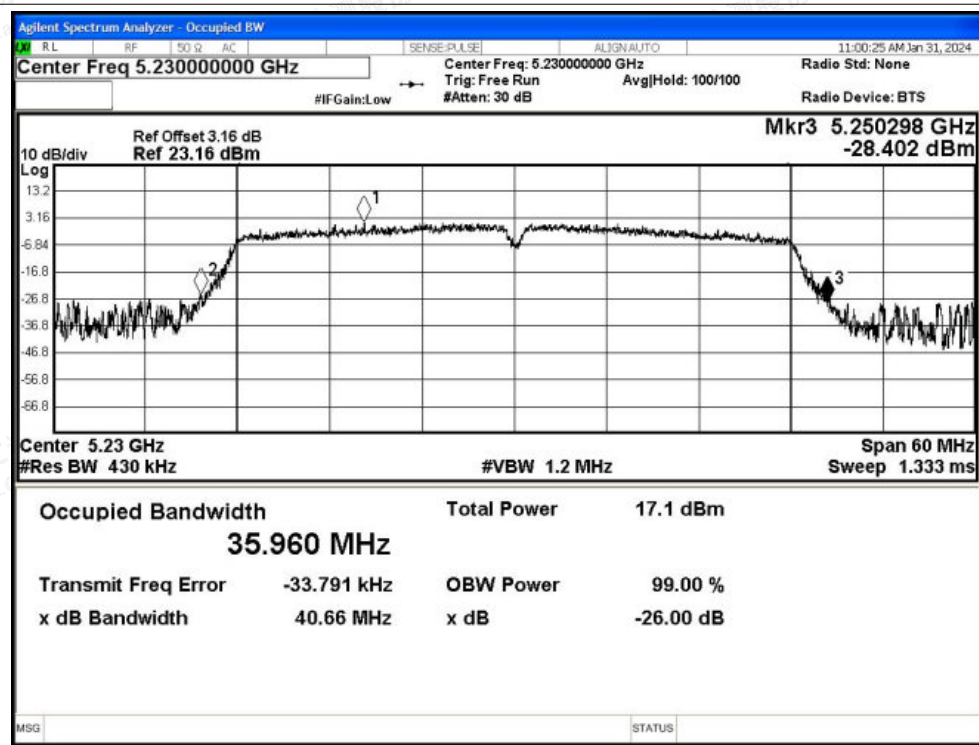
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-26dB Bandwidth NVNT n40 5190MHz Ant0

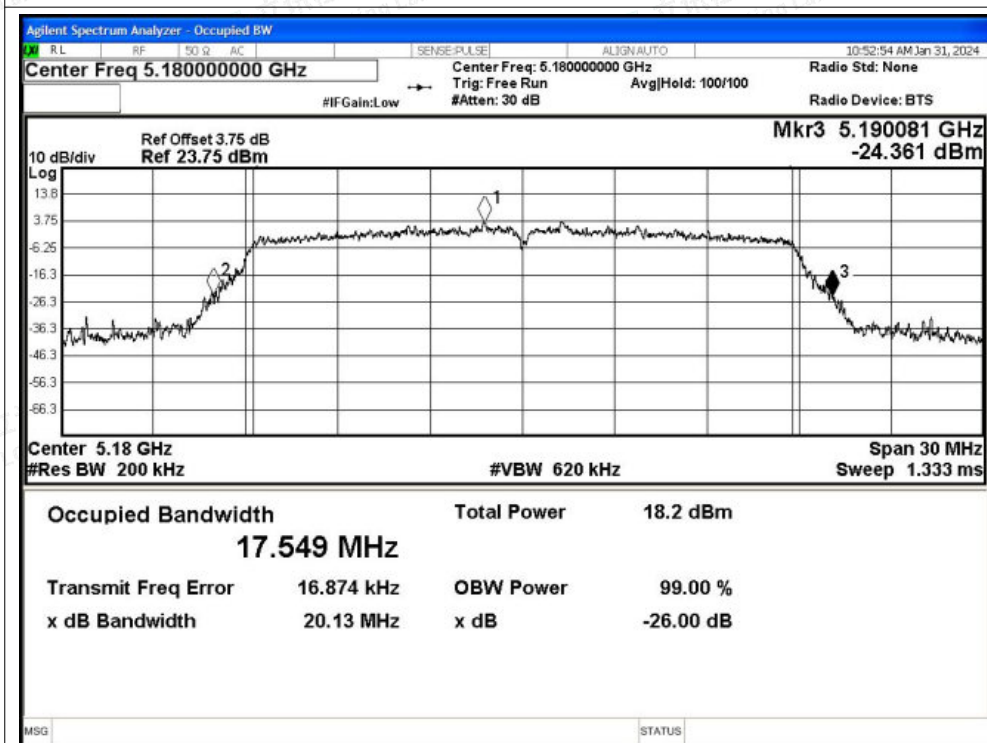


-26dB Bandwidth NVNT n40 5230MHz Ant0

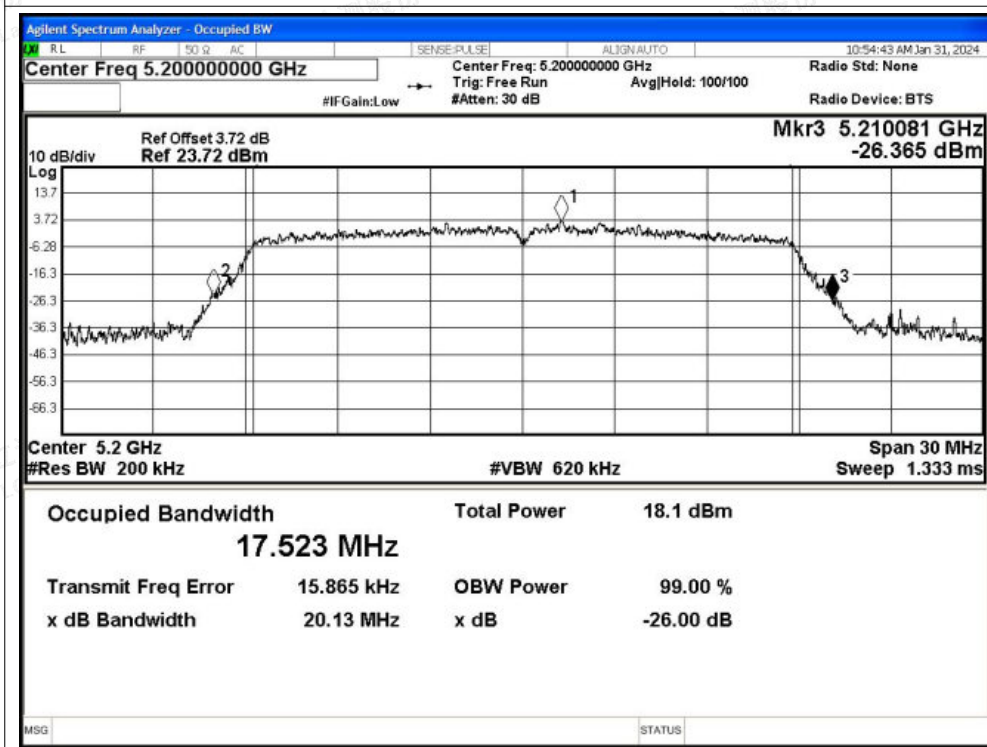




-26dB Bandwidth NVNT ac20 5180MHz Ant0



-26dB Bandwidth NVNT ac20 5200MHz Ant0



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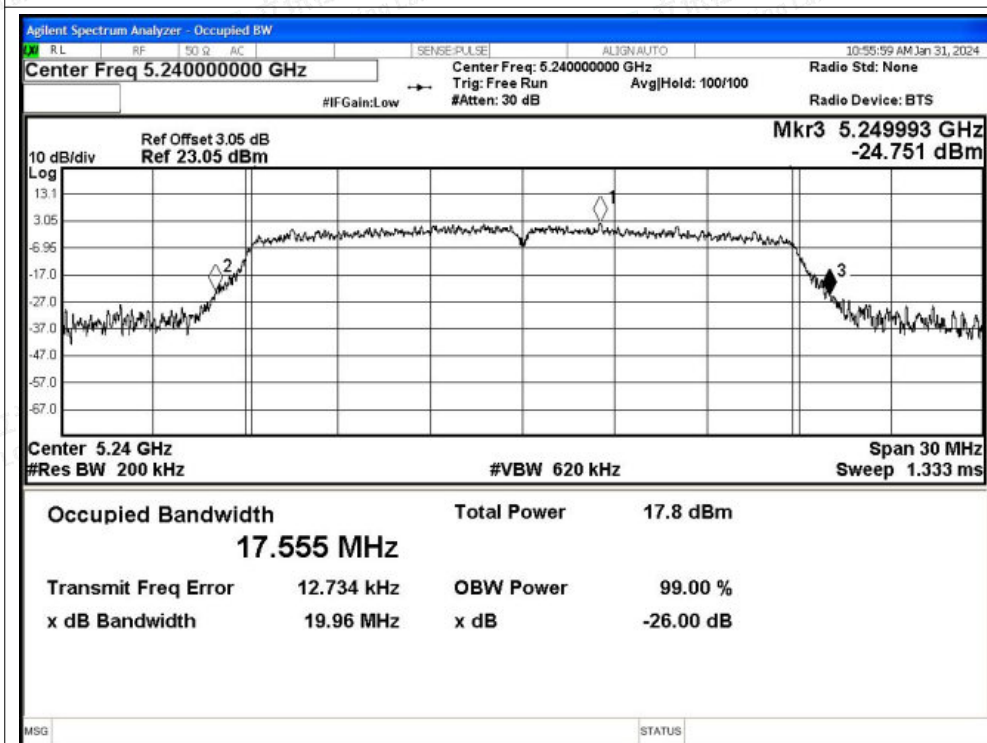
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

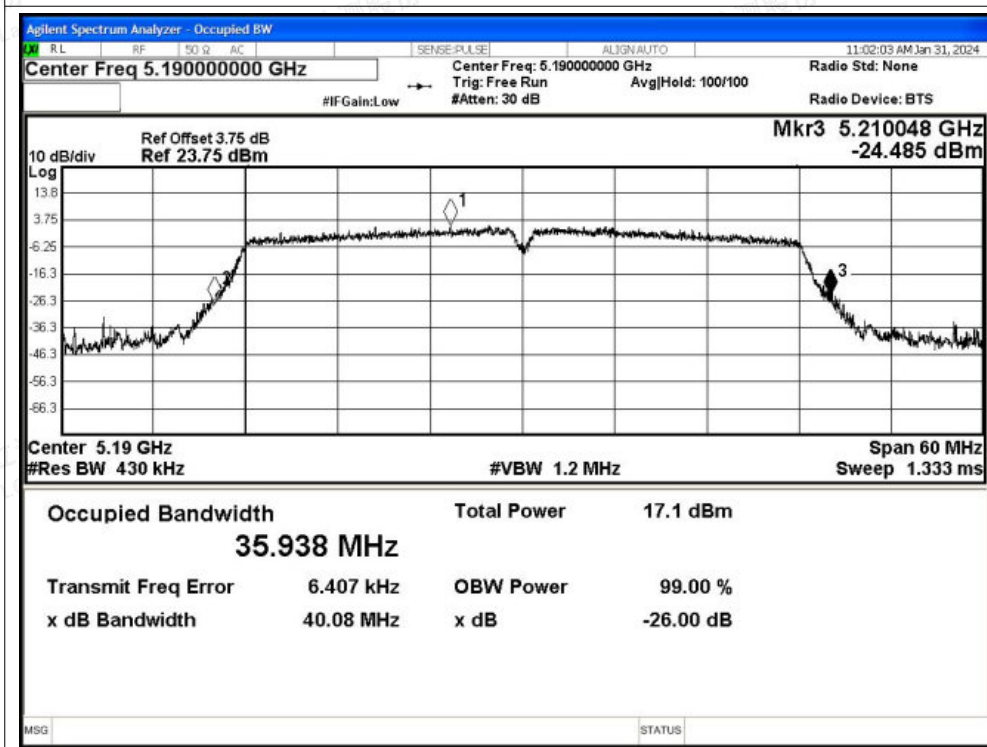
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5240MHz Ant0



-26dB Bandwidth NVNT ac40 5190MHz Ant0



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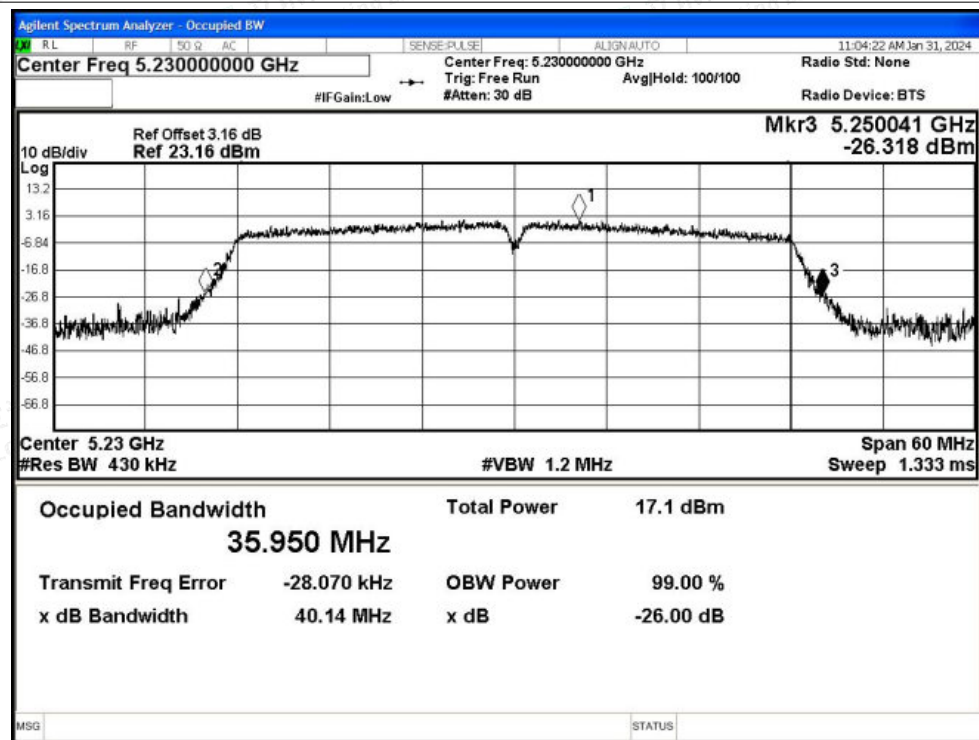
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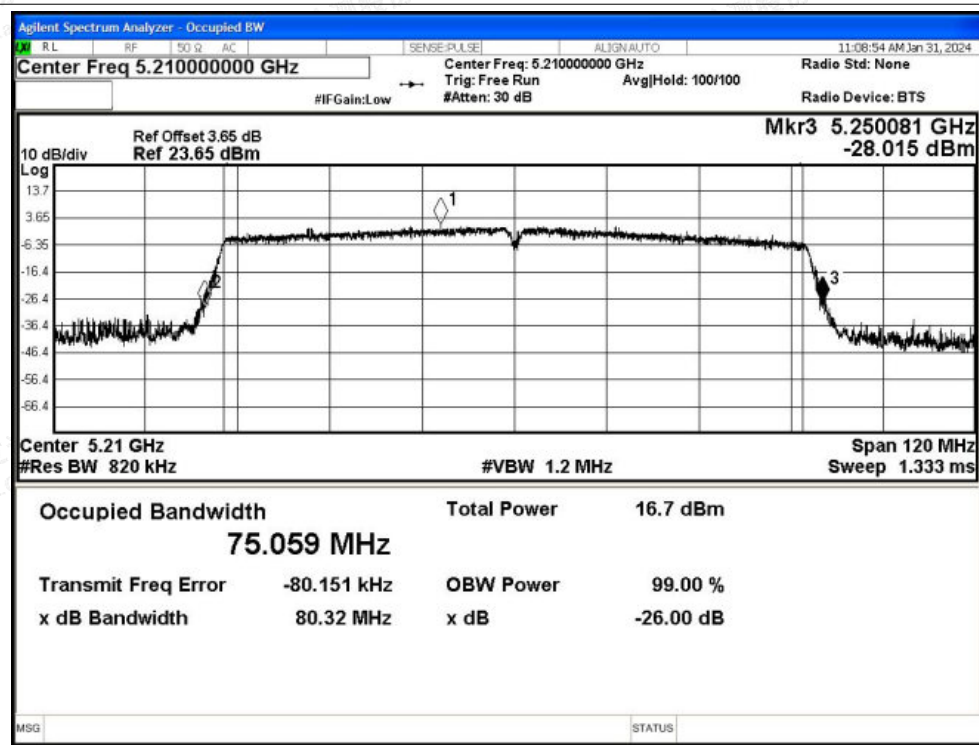
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-26dB Bandwidth NVNT ac40 5230MHz Ant0



-26dB Bandwidth NVNT ac80 5210MHz Ant0





Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.791	---	Pass
NVNT	a	5200	Ant1	19.752	---	Pass
NVNT	a	5240	Ant1	19.965	---	Pass
NVNT	n20	5180	Ant1	20.06	---	Pass
NVNT	n20	5200	Ant1	20.051	---	Pass
NVNT	n20	5240	Ant1	19.842	---	Pass
NVNT	n40	5190	Ant1	40.471	---	Pass
NVNT	n40	5230	Ant1	40.323	---	Pass
NVNT	ac20	5180	Ant1	19.79	---	Pass
NVNT	ac20	5200	Ant1	20.002	---	Pass
NVNT	ac20	5240	Ant1	20.033	---	Pass
NVNT	ac40	5190	Ant1	39.901	---	Pass
NVNT	ac40	5230	Ant1	40.309	---	Pass
NVNT	ac80	5210	Ant1	80.385	---	Pass

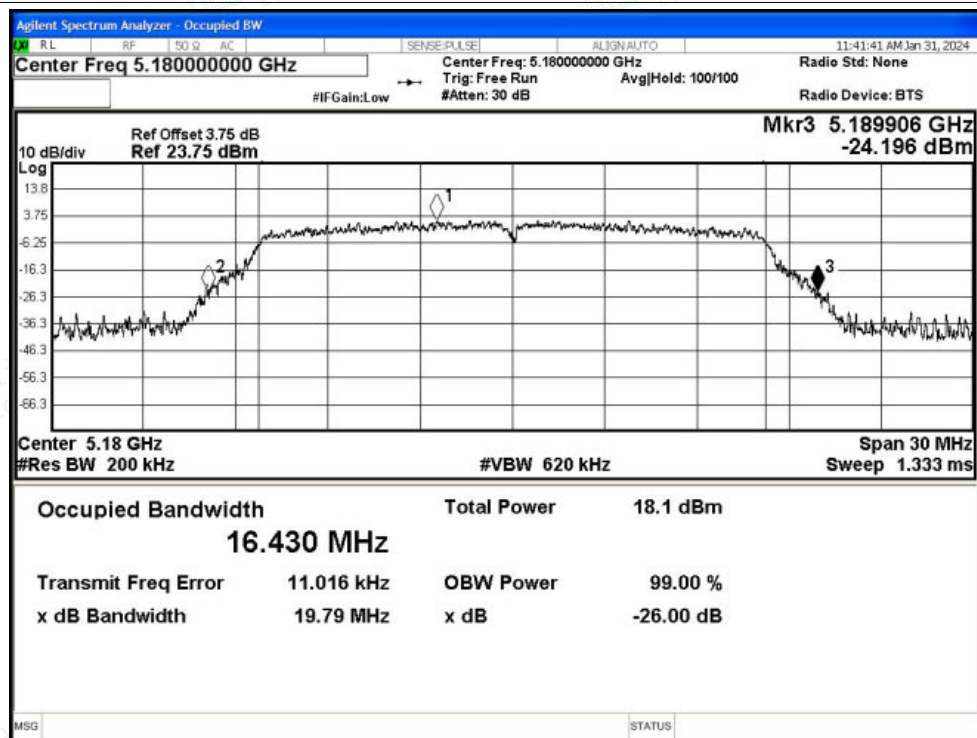


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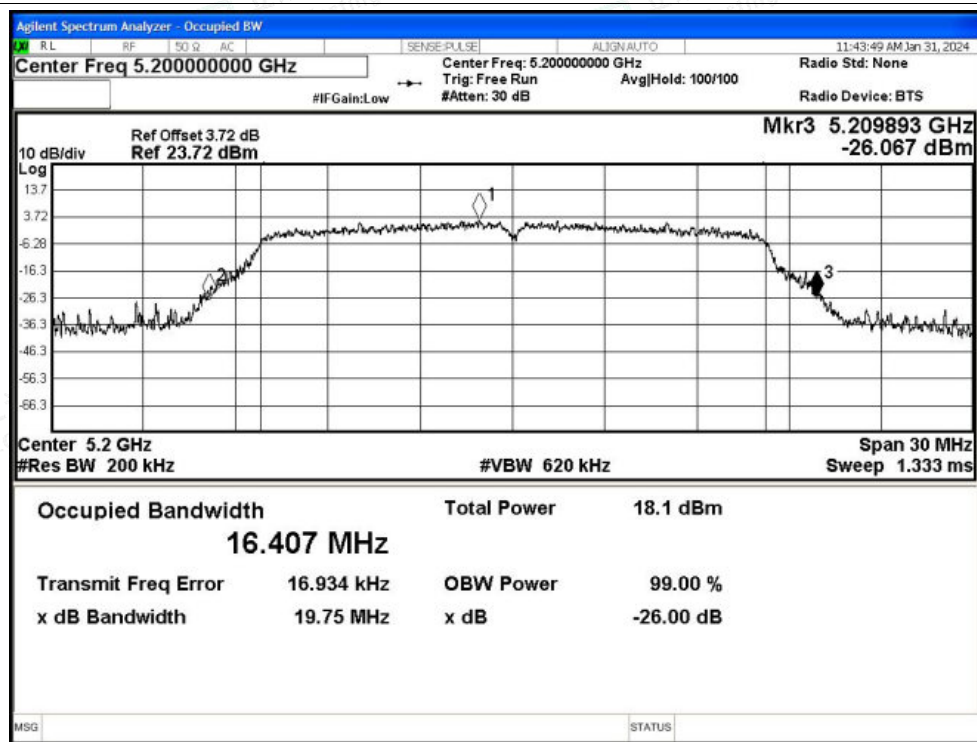


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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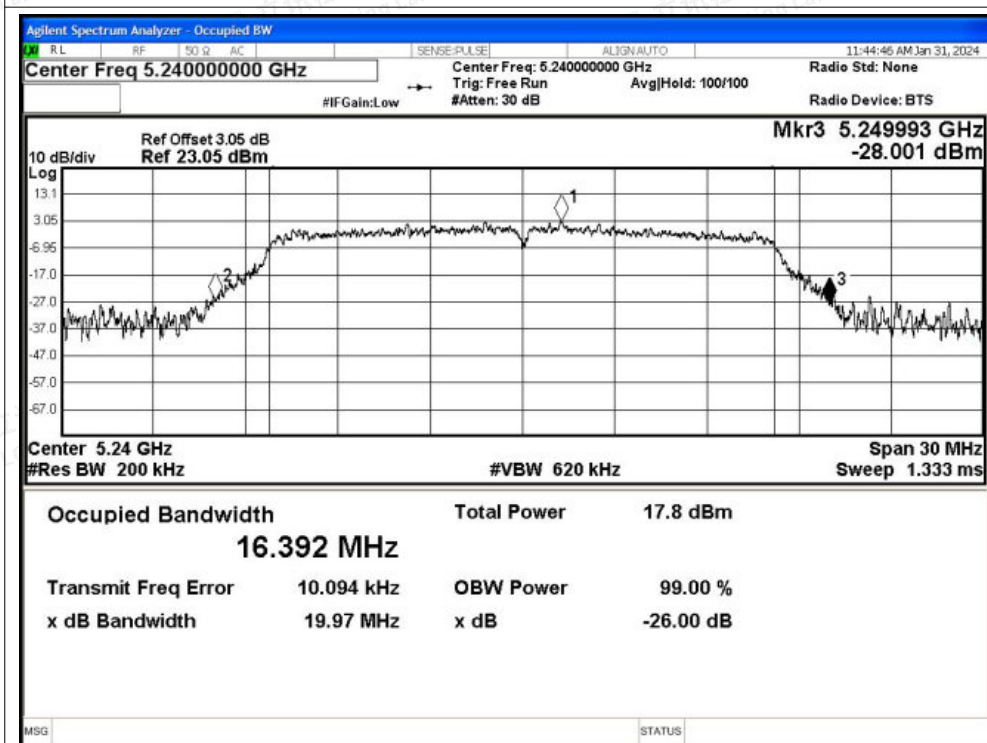
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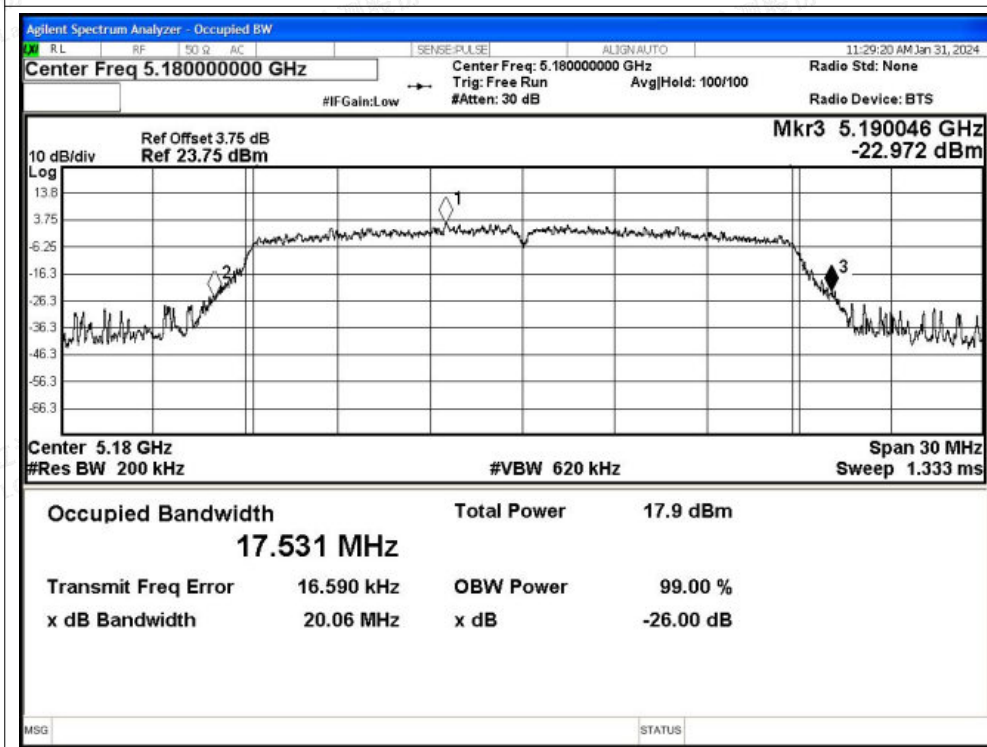
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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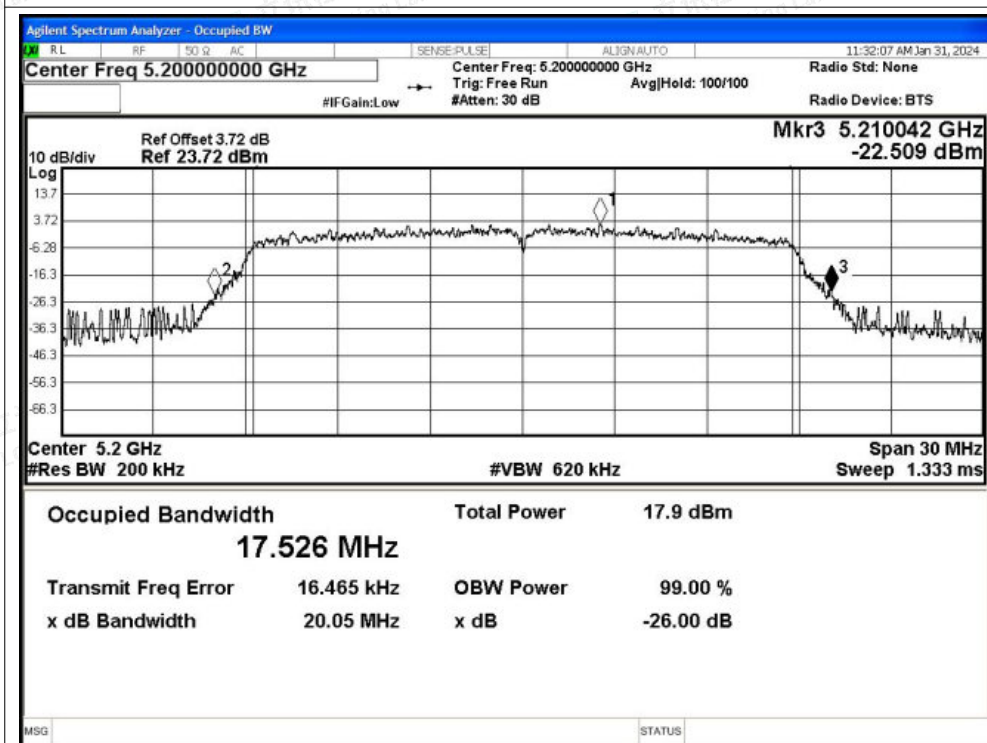
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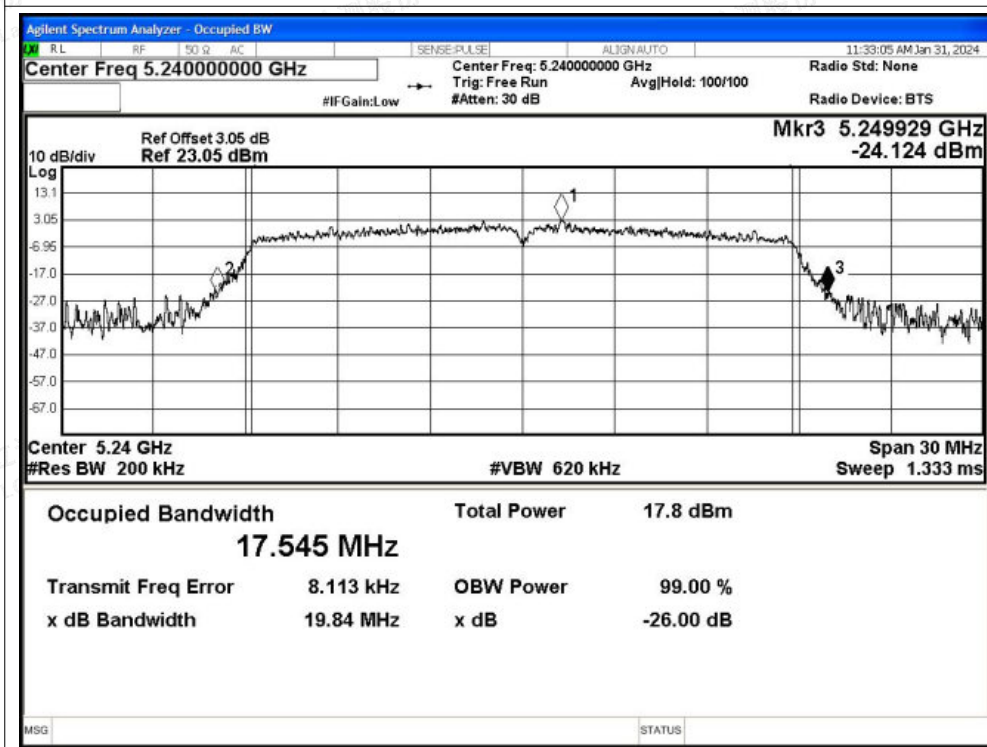
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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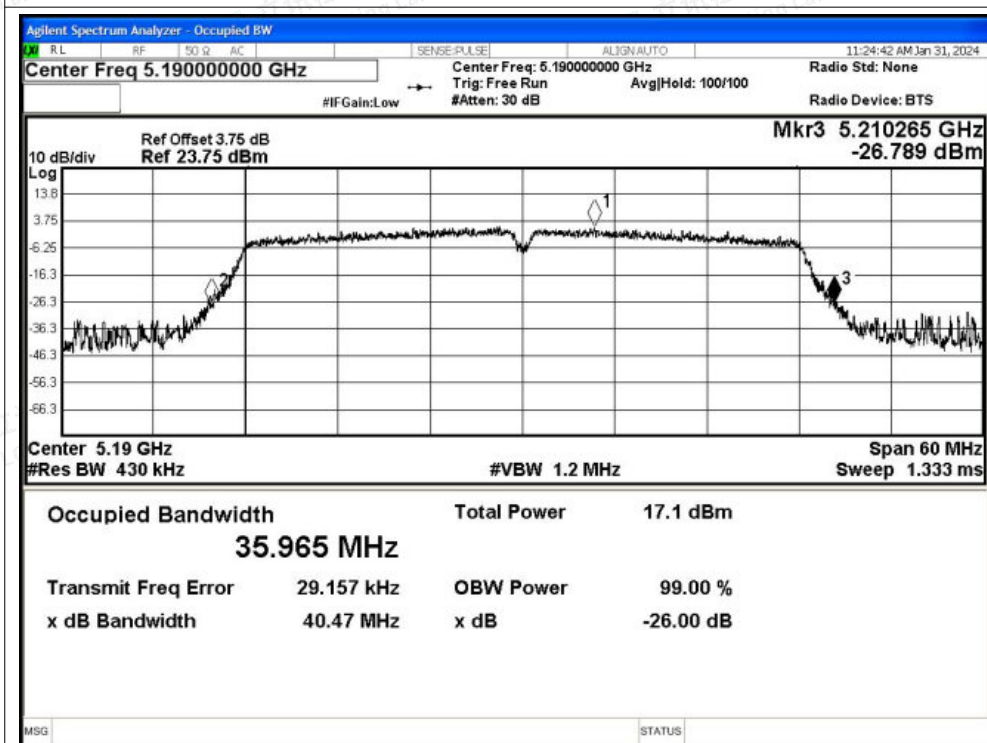
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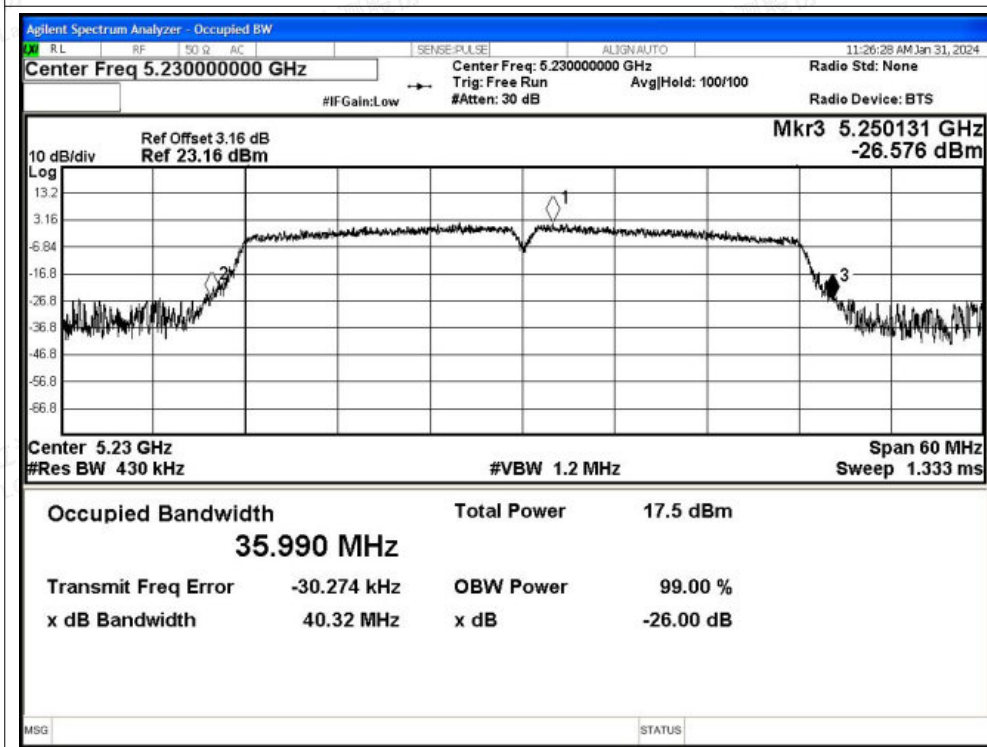
Scan code to check authenticity



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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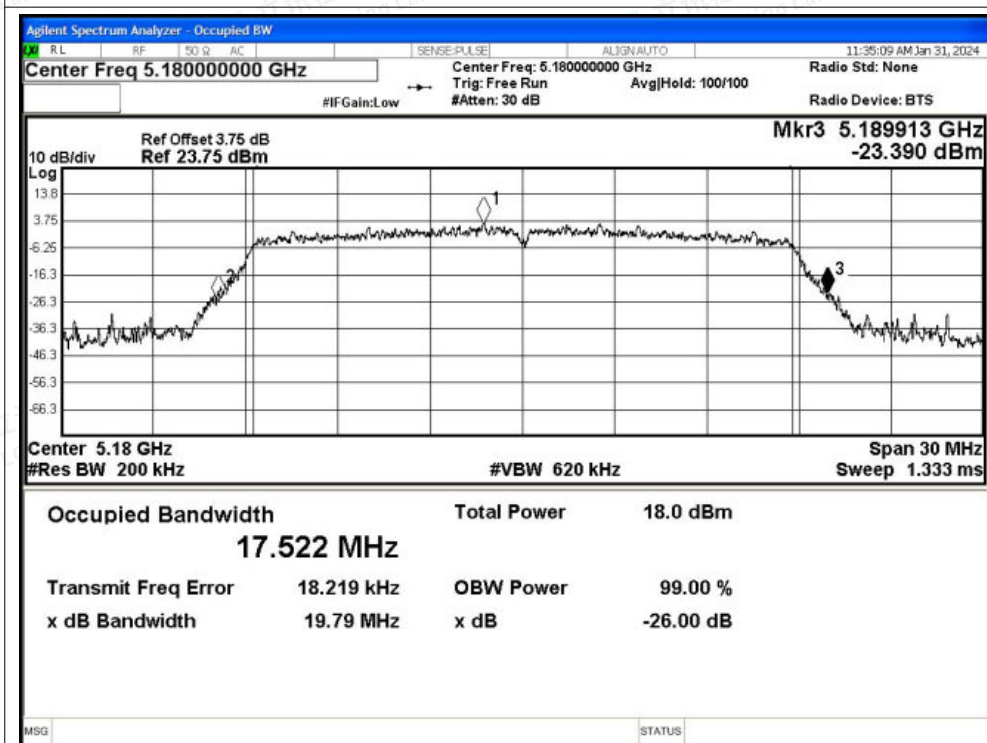
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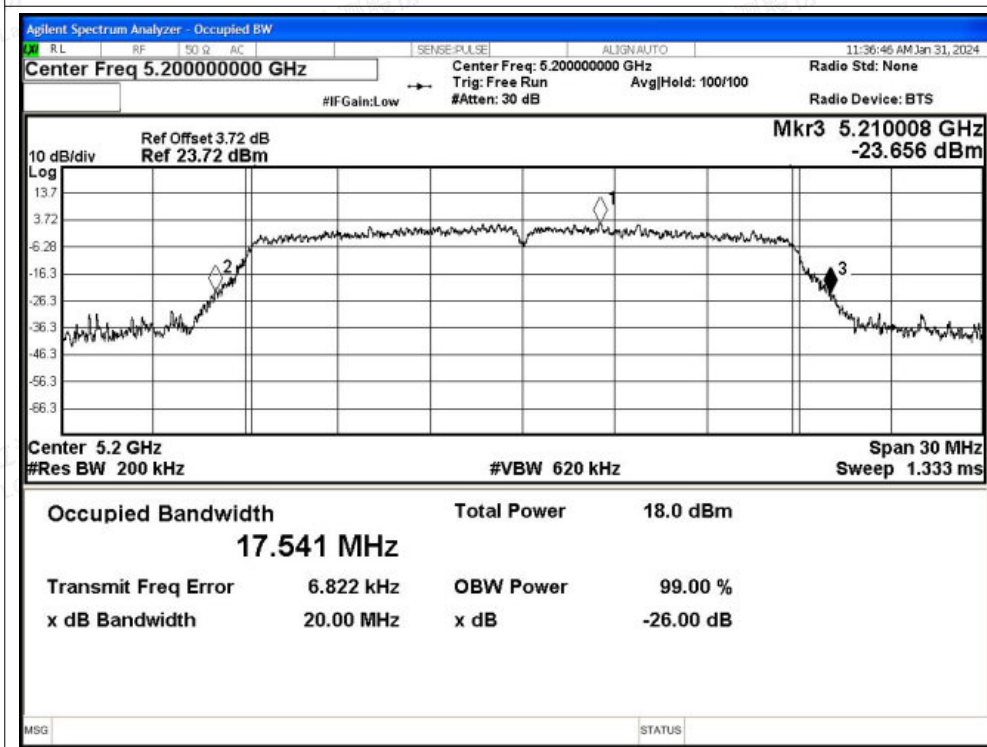
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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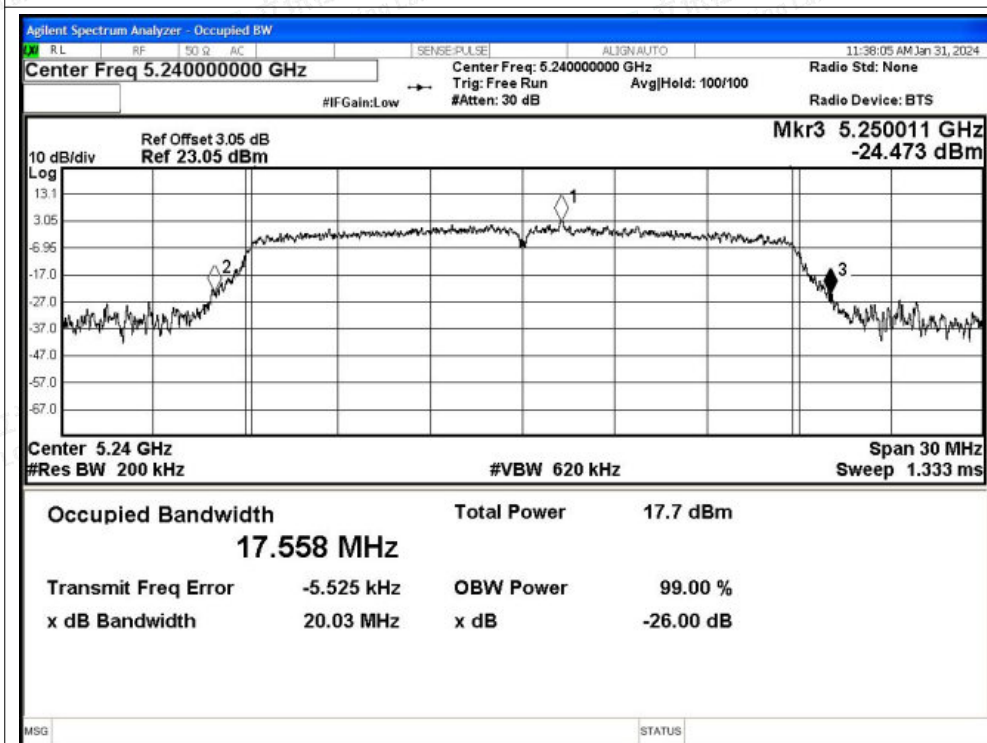
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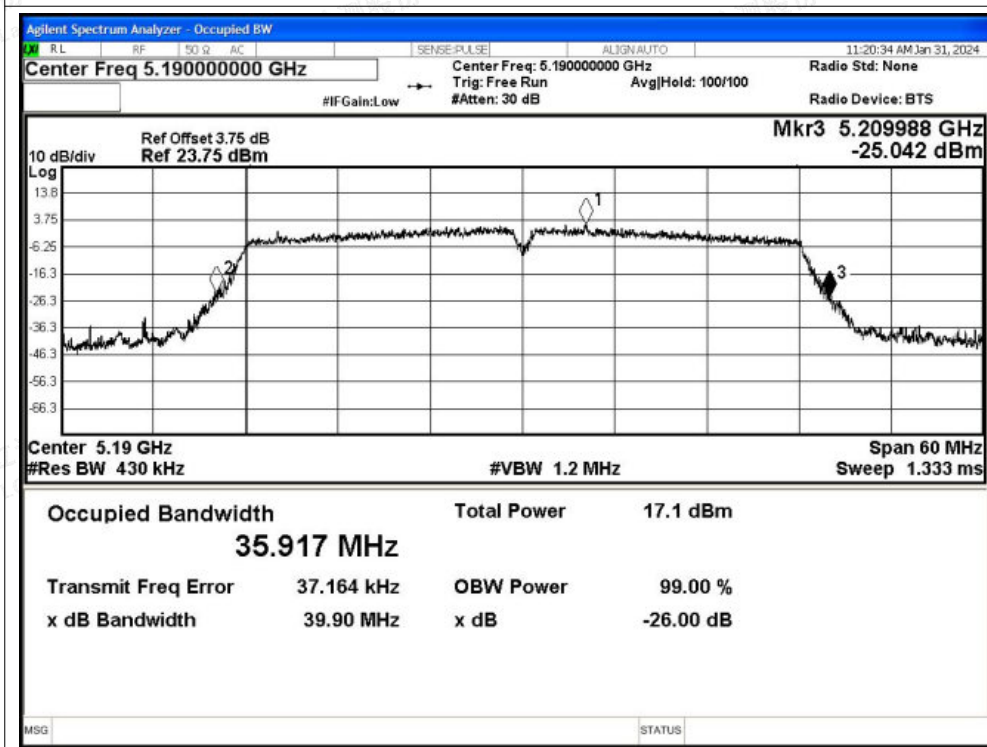
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



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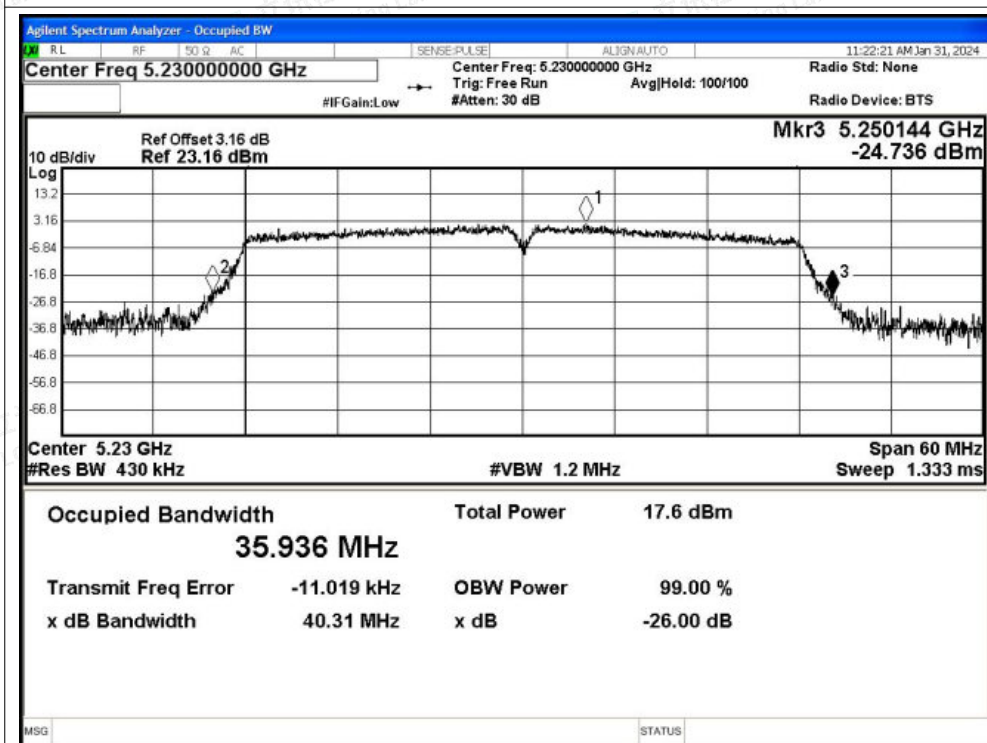
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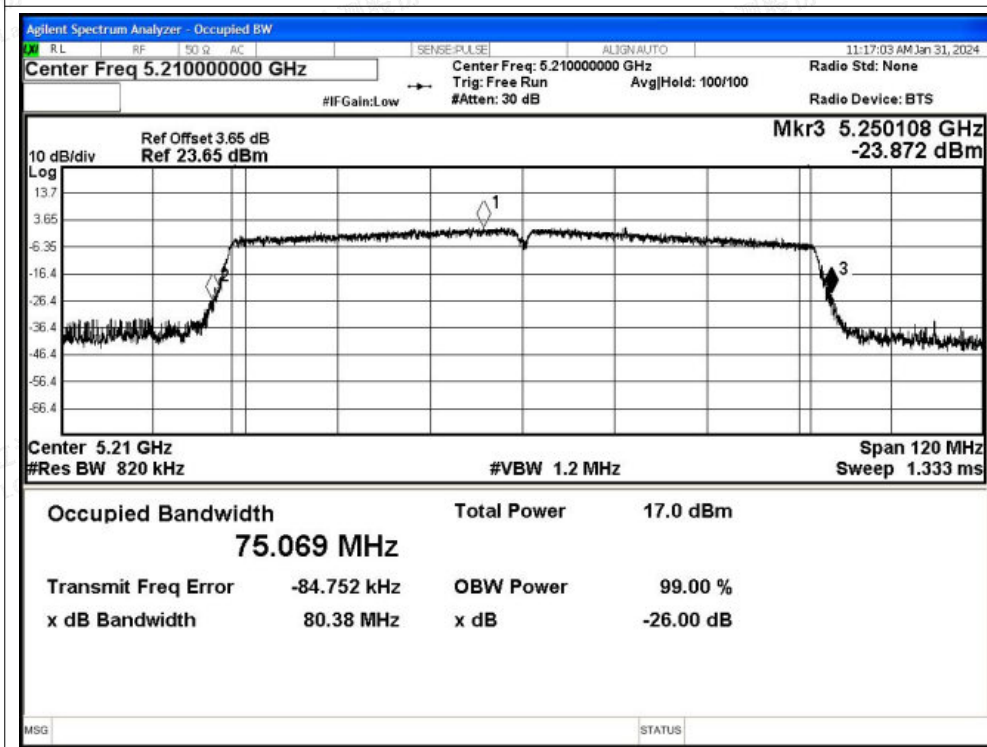
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



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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	12.5	0.13	12.63	24	Pass
NVNT	a	5200	Ant0	12.26	0.13	12.39	24	Pass
NVNT	a	5240	Ant0	12.07	0.13	12.2	24	Pass
NVNT	n20	5180	Ant0	12.26	0.15	12.41	24	Pass
NVNT	n20	5200	Ant0	12.14	0.15	12.29	24	Pass
NVNT	n20	5240	Ant0	12.23	0.15	12.38	24	Pass
NVNT	n40	5190	Ant0	11.21	0.29	11.5	24	Pass
NVNT	n40	5230	Ant0	11.31	0.28	11.59	24	Pass
NVNT	ac20	5180	Ant0	12.25	0.14	12.39	24	Pass
NVNT	ac20	5200	Ant0	12.36	0.15	12.51	24	Pass
NVNT	ac20	5240	Ant0	12.04	0.14	12.18	24	Pass
NVNT	ac40	5190	Ant0	11.31	0.28	11.59	24	Pass
NVNT	ac40	5230	Ant0	11.36	0.28	11.64	24	Pass
NVNT	ac80	5210	Ant0	10.01	0.55	10.56	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.51	0.13	12.64	24	Pass
NVNT	a	5200	Ant1	12.55	0.13	12.68	24	Pass
NVNT	a	5240	Ant1	12.16	0.13	12.29	24	Pass
NVNT	n20	5180	Ant1	12.32	0.15	12.47	24	Pass
NVNT	n20	5200	Ant1	12.3	0.15	12.45	24	Pass
NVNT	n20	5240	Ant1	12.04	0.15	12.19	24	Pass
NVNT	n40	5190	Ant1	11.08	0.28	11.36	24	Pass
NVNT	n40	5230	Ant1	11.55	0.29	11.84	24	Pass
NVNT	ac20	5180	Ant1	12.29	0.14	12.43	24	Pass
NVNT	ac20	5200	Ant1	12.33	0.14	12.47	24	Pass
NVNT	ac20	5240	Ant1	12.07	0.14	12.21	24	Pass
NVNT	ac40	5190	Ant1	11.28	0.28	11.56	24	Pass
NVNT	ac40	5230	Ant1	11.61	0.28	11.89	24	Pass
NVNT	ac80	5210	Ant1	9.94	0.55	10.49	24	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	12.41	12.47	15.45	24	Pass
NVNT	n20	5200	12.29	12.45	15.38	24	Pass
NVNT	n20	5240	12.38	12.19	15.30	24	Pass
NVNT	n40	5190	11.5	11.36	14.44	24	Pass
NVNT	n40	5230	11.59	11.84	14.73	24	Pass
NVNT	ac20	5180	12.39	12.43	15.42	24	Pass
NVNT	ac20	5200	12.51	12.47	15.50	24	Pass
NVNT	ac20	5240	12.18	12.21	15.21	24	Pass
NVNT	ac40	5190	11.59	11.56	14.59	24	Pass
NVNT	ac40	5230	11.64	11.89	14.78	24	Pass
NVNT	ac80	5210	10.56	10.49	13.54	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	Ant0	2.83	0.13	2.96	11	Pass
NVNT	a	5200	Ant0	2.81	0.13	2.94	11	Pass
NVNT	a	5240	Ant0	2.73	0.13	2.86	11	Pass
NVNT	n20	5180	Ant0	2.54	0.15	2.69	11	Pass
NVNT	n20	5200	Ant0	2.52	0.15	2.67	11	Pass
NVNT	n20	5240	Ant0	2.33	0.15	2.48	11	Pass
NVNT	n40	5190	Ant0	-1.54	0.29	-1.25	11	Pass
NVNT	n40	5230	Ant0	-0.88	0.28	-0.6	11	Pass
NVNT	ac20	5180	Ant0	2.57	0.14	2.71	11	Pass
NVNT	ac20	5200	Ant0	2.53	0.15	2.68	11	Pass
NVNT	ac20	5240	Ant0	2.09	0.14	2.23	11	Pass
NVNT	ac40	5190	Ant0	-1.42	0.28	-1.14	11	Pass
NVNT	ac40	5230	Ant0	-1.31	0.28	-1.03	11	Pass
NVNT	ac80	5210	Ant0	-5.24	0.55	-4.69	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	Ant1	2.75	0.13	2.88	11	Pass
NVNT	a	5200	Ant1	3.06	0.13	3.19	11	Pass
NVNT	a	5240	Ant1	2.58	0.13	2.71	11	Pass
NVNT	n20	5180	Ant1	2.67	0.15	2.82	11	Pass
NVNT	n20	5200	Ant1	2.33	0.15	2.48	11	Pass
NVNT	n20	5240	Ant1	2.15	0.15	2.3	11	Pass
NVNT	n40	5190	Ant1	-1.56	0.28	-1.28	11	Pass
NVNT	n40	5230	Ant1	-1.19	0.29	-0.9	11	Pass
NVNT	ac20	5180	Ant1	2.71	0.14	2.85	11	Pass
NVNT	ac20	5200	Ant1	2.59	0.14	2.73	11	Pass
NVNT	ac20	5240	Ant1	2.16	0.14	2.3	11	Pass
NVNT	ac40	5190	Ant1	-1.34	0.28	-1.06	11	Pass
NVNT	ac40	5230	Ant1	-1.12	0.28	-0.84	11	Pass
NVNT	ac80	5210	Ant1	-5.26	0.55	-4.71	11	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	2.69	2.82	5.77	11	Pass
NVNT	n20	5200	2.67	2.48	5.59	11	Pass
NVNT	n20	5240	2.48	2.3	5.40	11	Pass
NVNT	n40	5190	-1.25	-1.28	1.75	11	Pass
NVNT	n40	5230	-0.6	-0.9	2.26	11	Pass
NVNT	ac20	5180	2.71	2.85	5.79	11	Pass
NVNT	ac20	5200	2.68	2.73	5.72	11	Pass
NVNT	ac20	5240	2.23	2.3	5.28	11	Pass
NVNT	ac40	5190	-1.14	-1.06	1.91	11	Pass
NVNT	ac40	5230	-1.03	-0.84	2.08	11	Pass
NVNT	ac80	5210	-4.69	-4.71	-1.69	11	Pass



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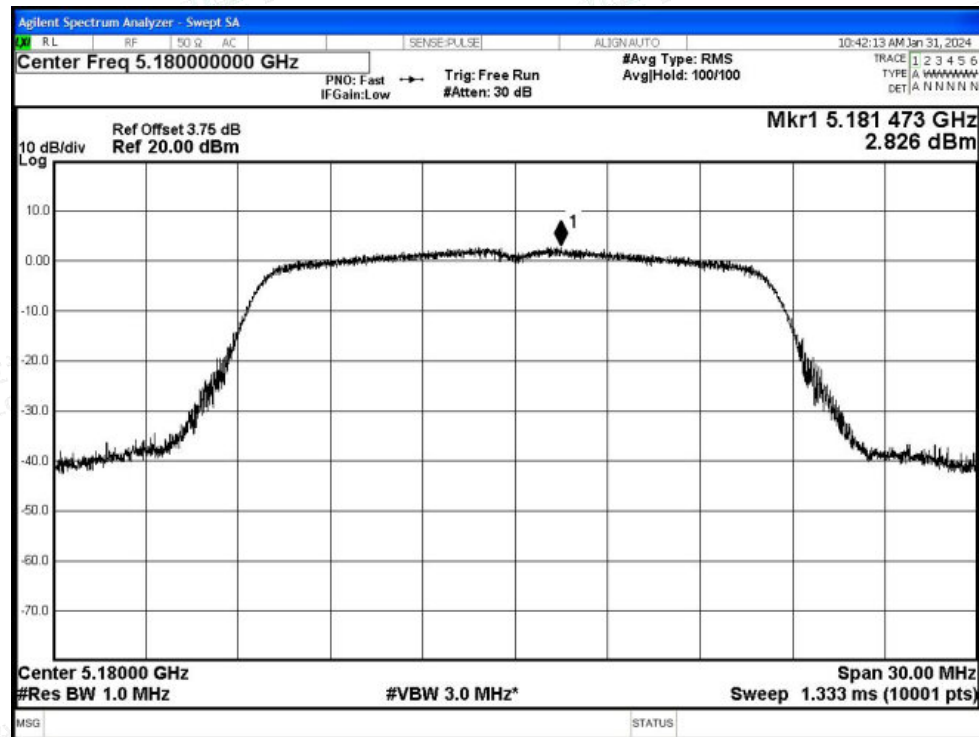
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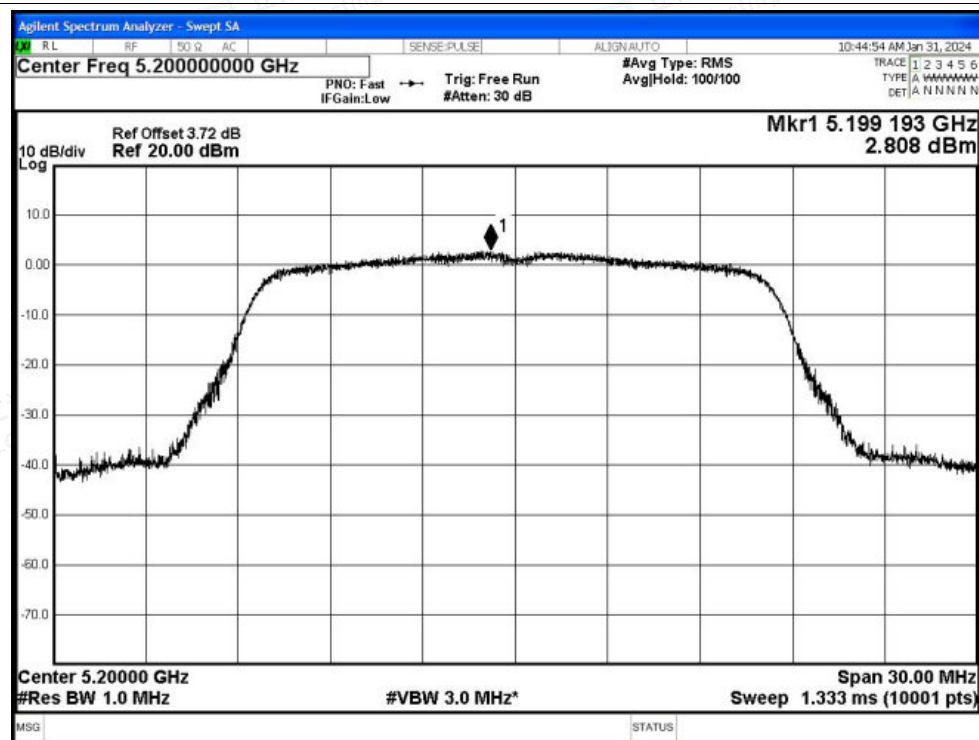


Test Graphs

PSD NVNT a 5180MHz Ant0

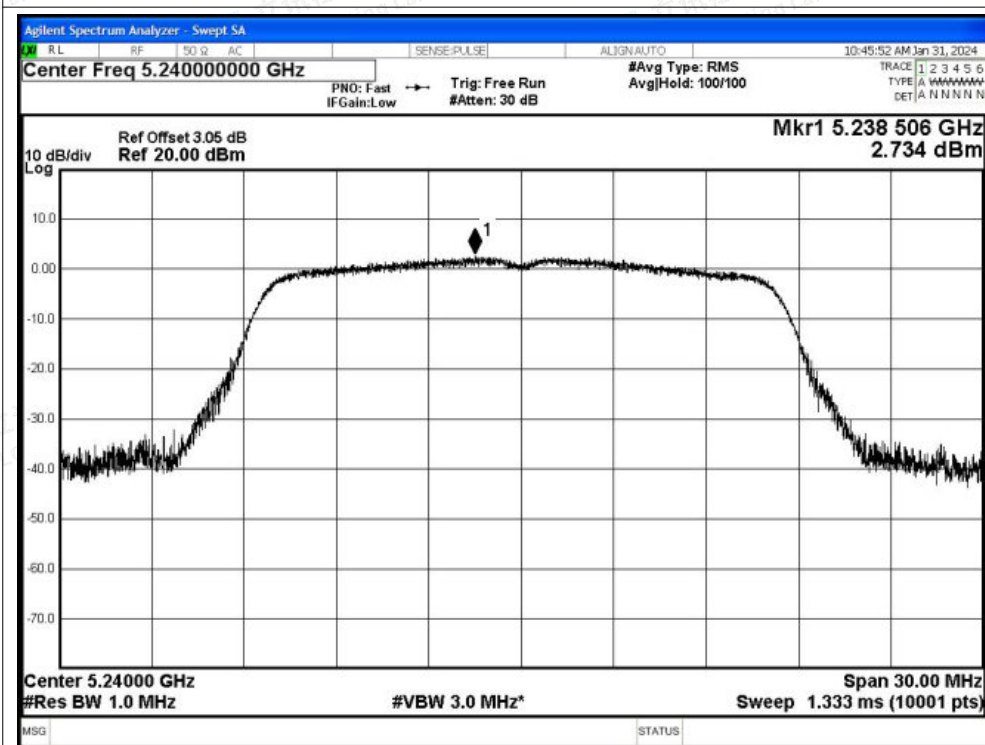


PSD NVNT a 5200MHz Ant0

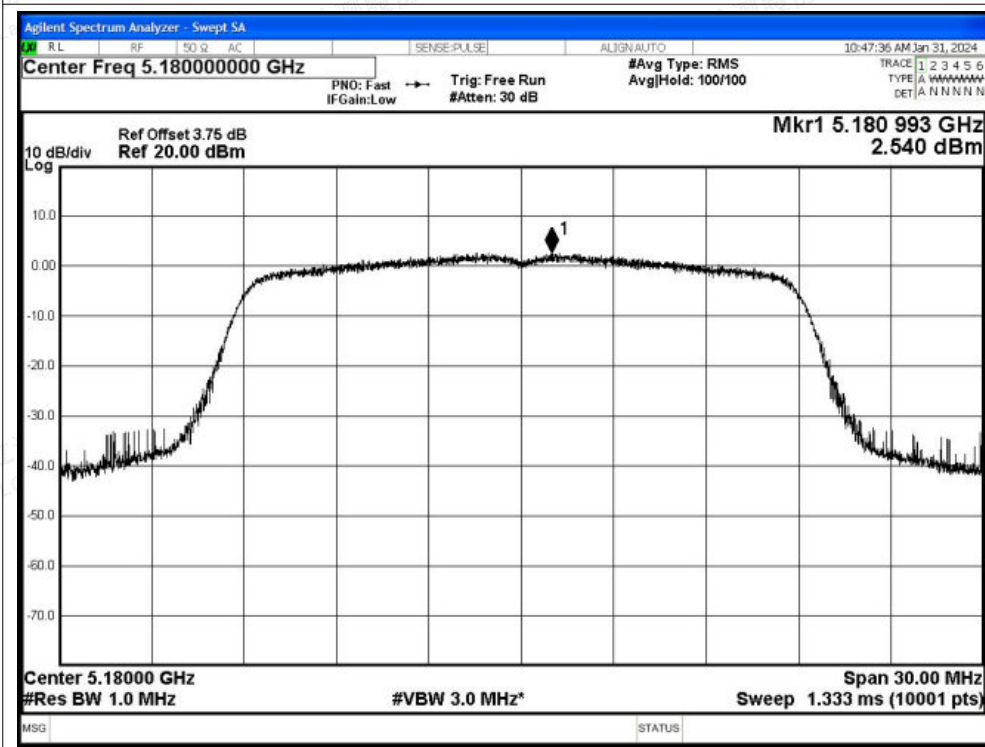




PSD NVNT a 5240MHz Ant0



PSD NVNT n20 5180MHz Ant0



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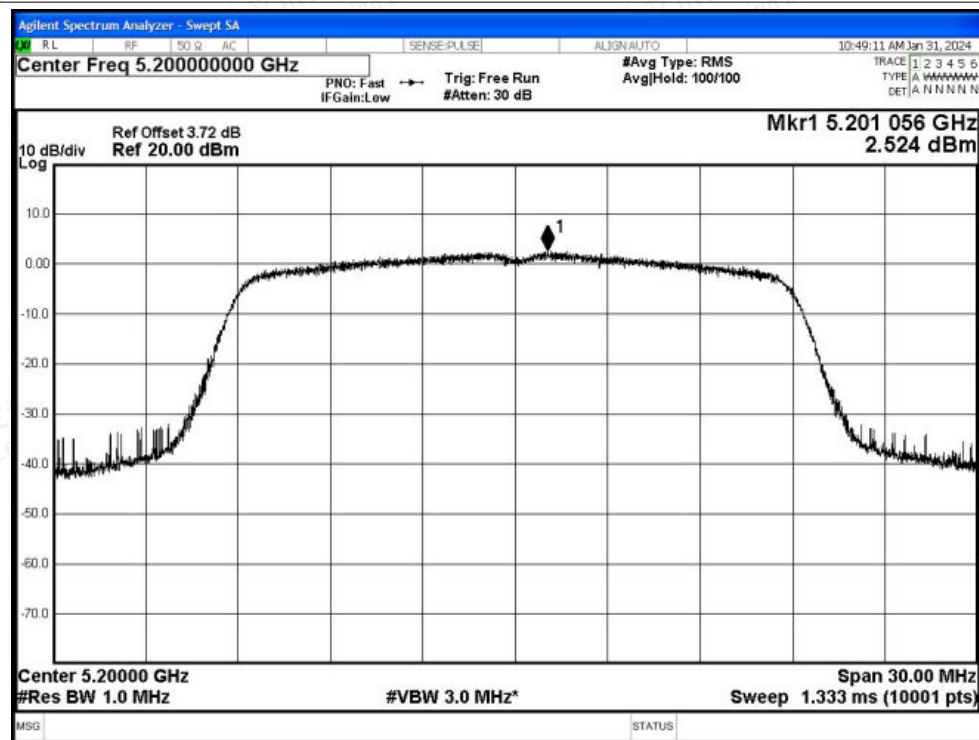
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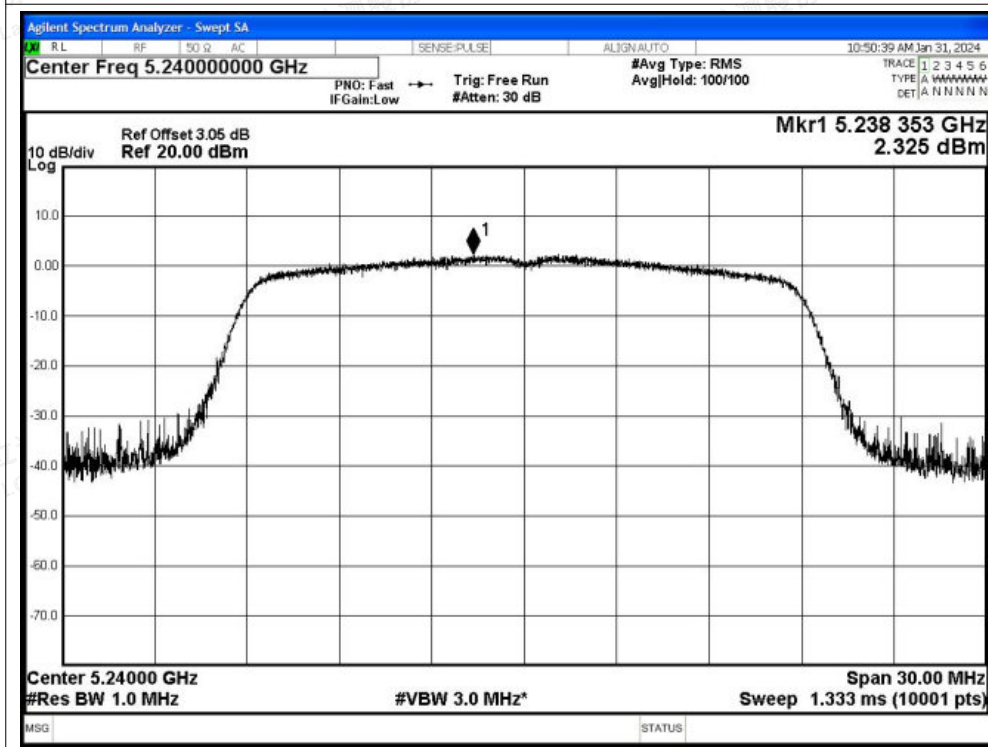
Scan code to check authenticity



PSD NVNT n20 5200MHz Ant0

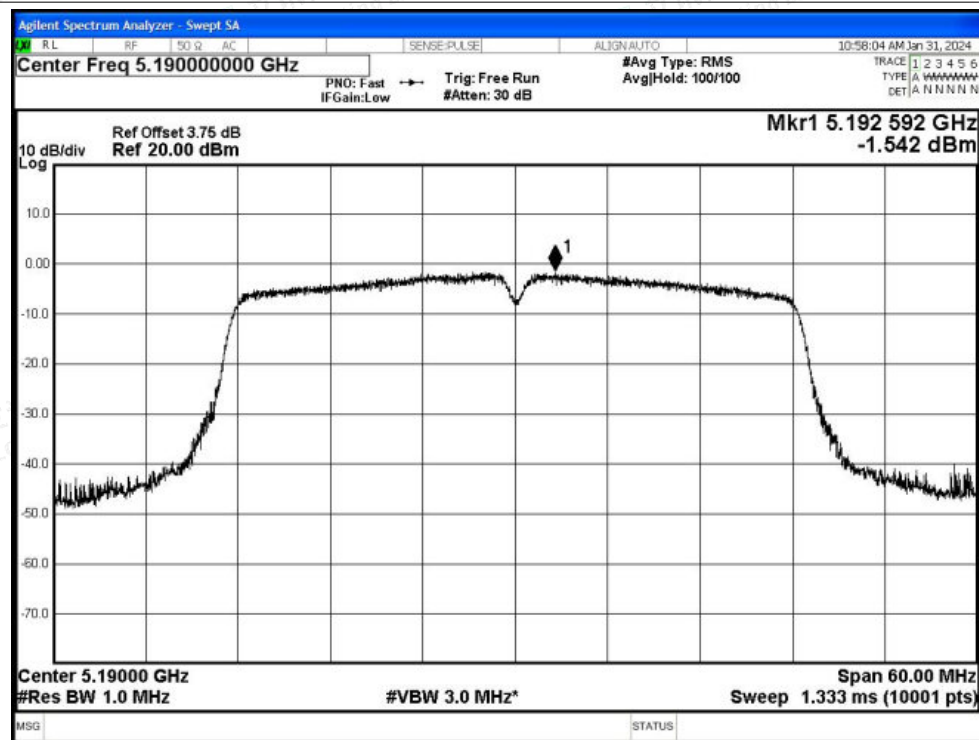


PSD NVNT n20 5240MHz Ant0

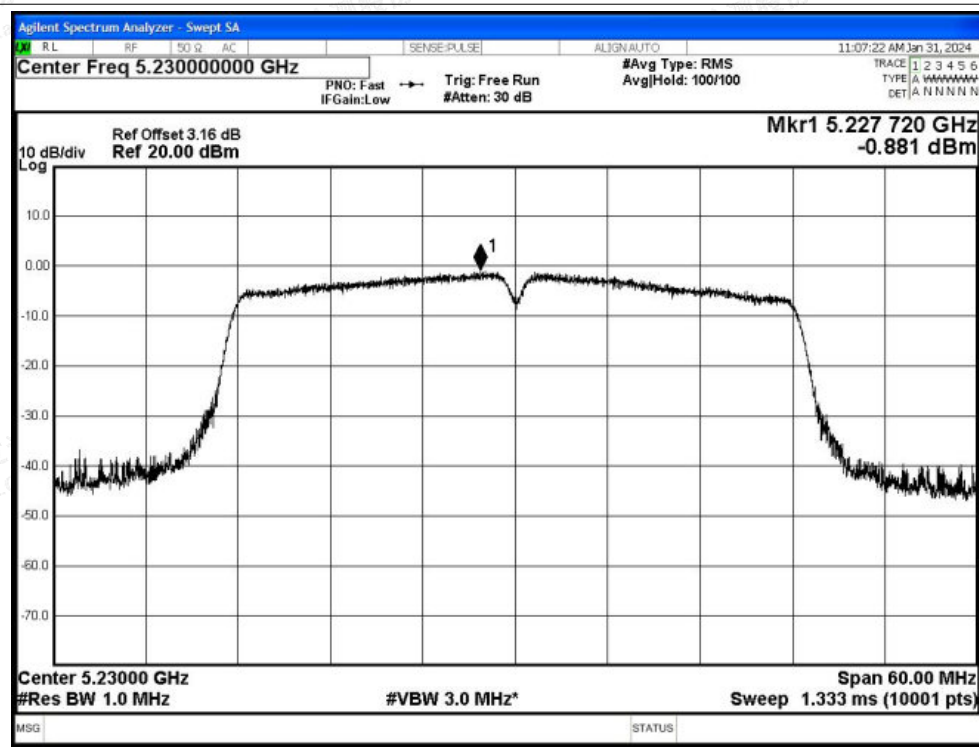




PSD NVNT n40 5190MHz Ant0

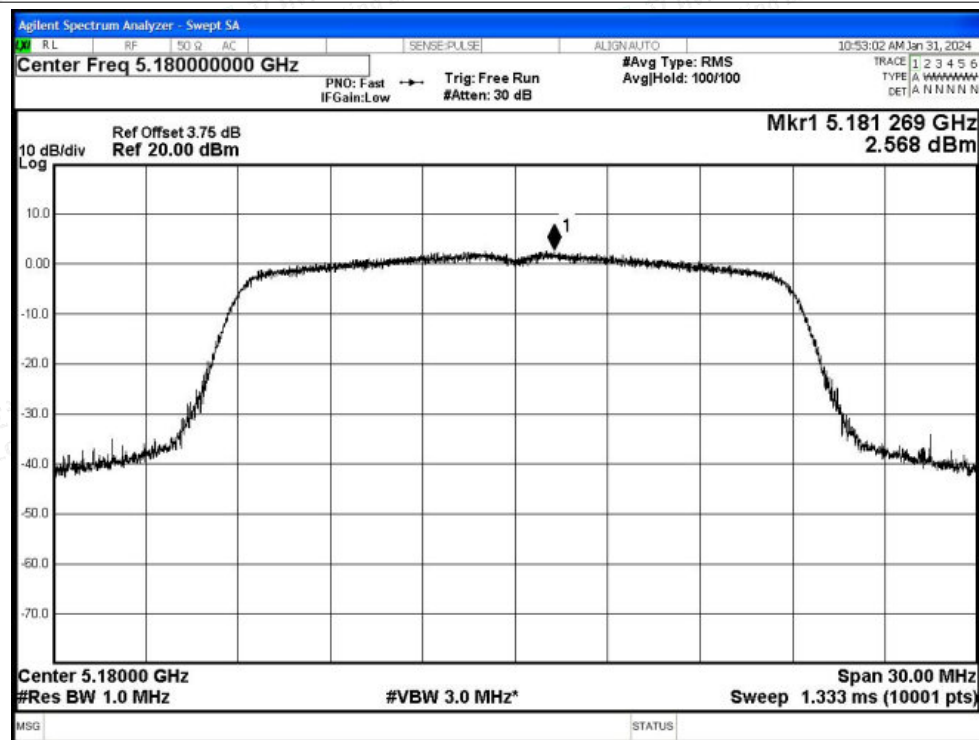


PSD NVNT n40 5230MHz Ant0

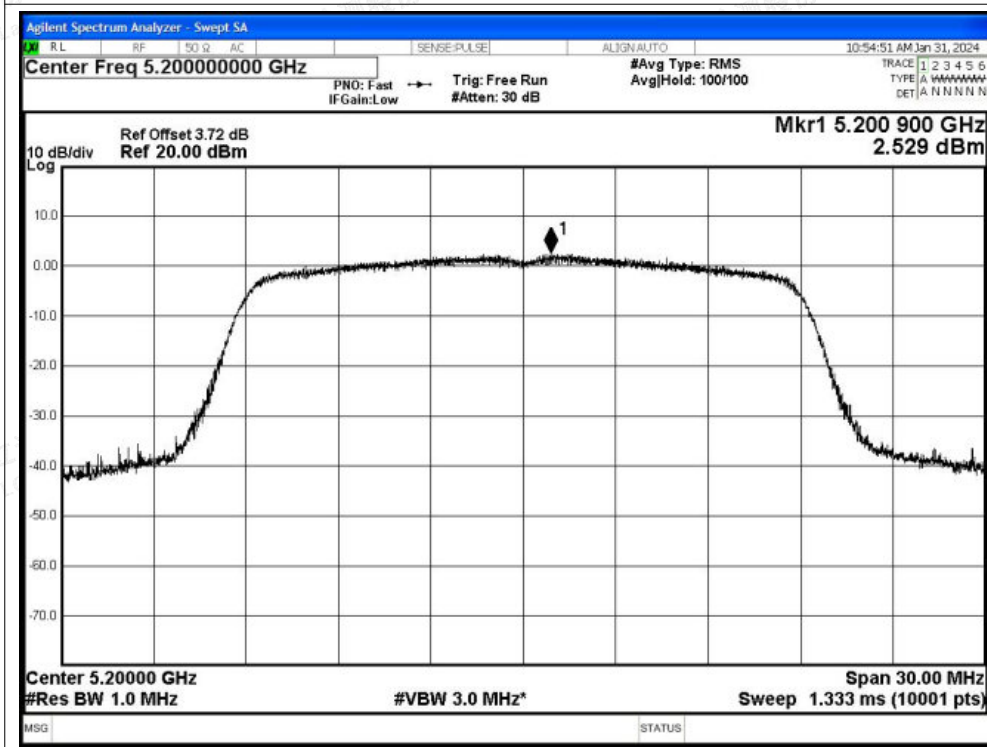




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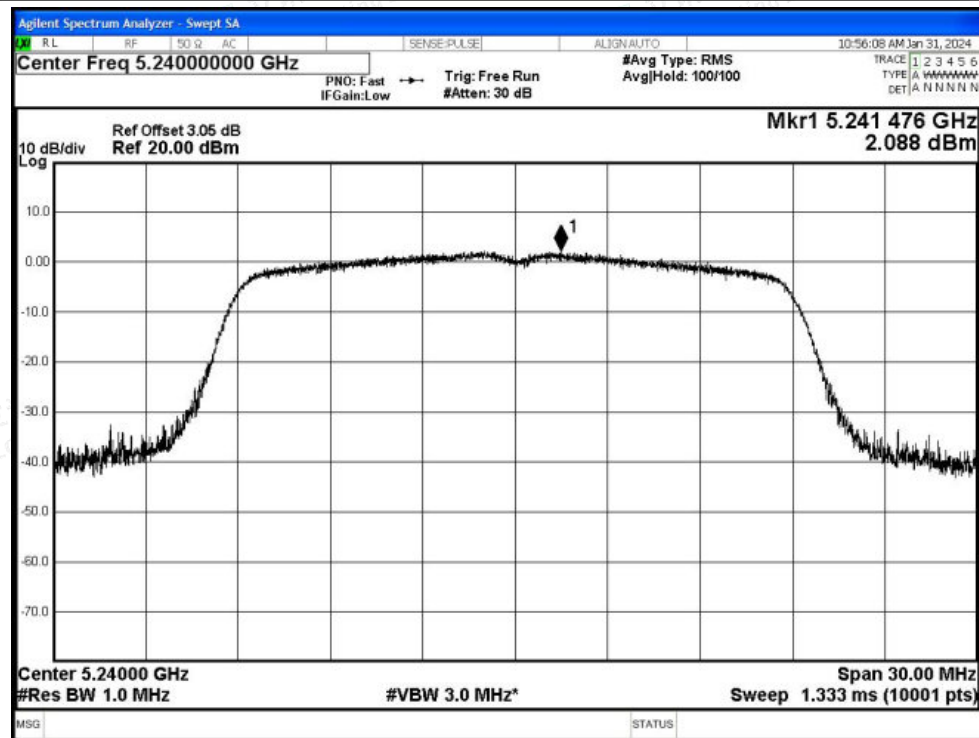


PSD NVNT ac20 5200MHz Ant0

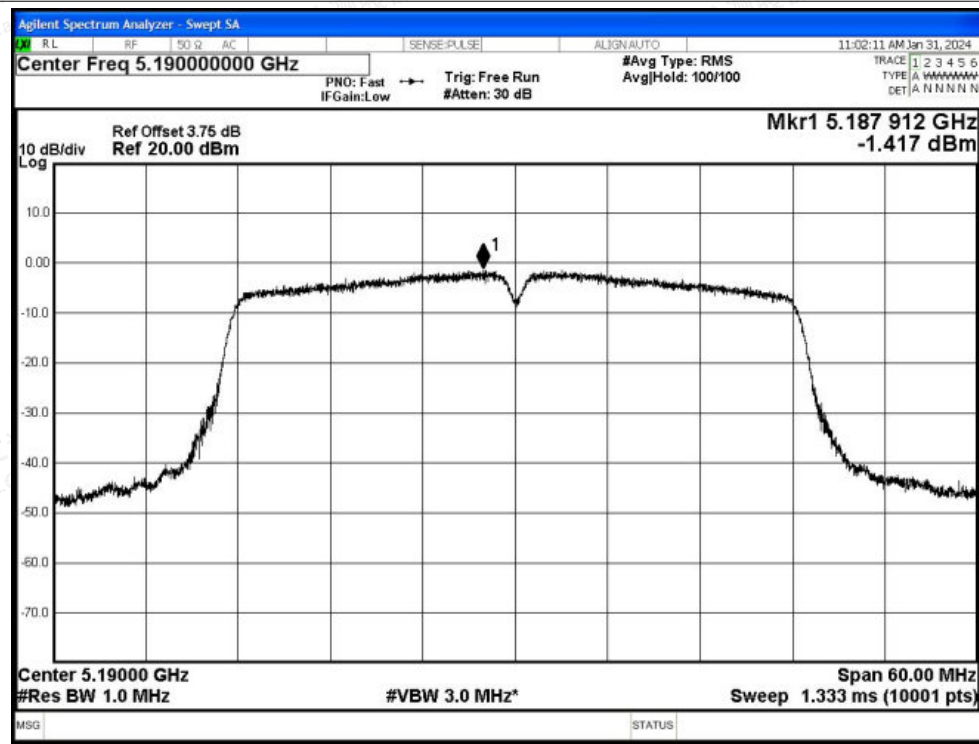




PSD NVNT ac20 5240MHz Ant0

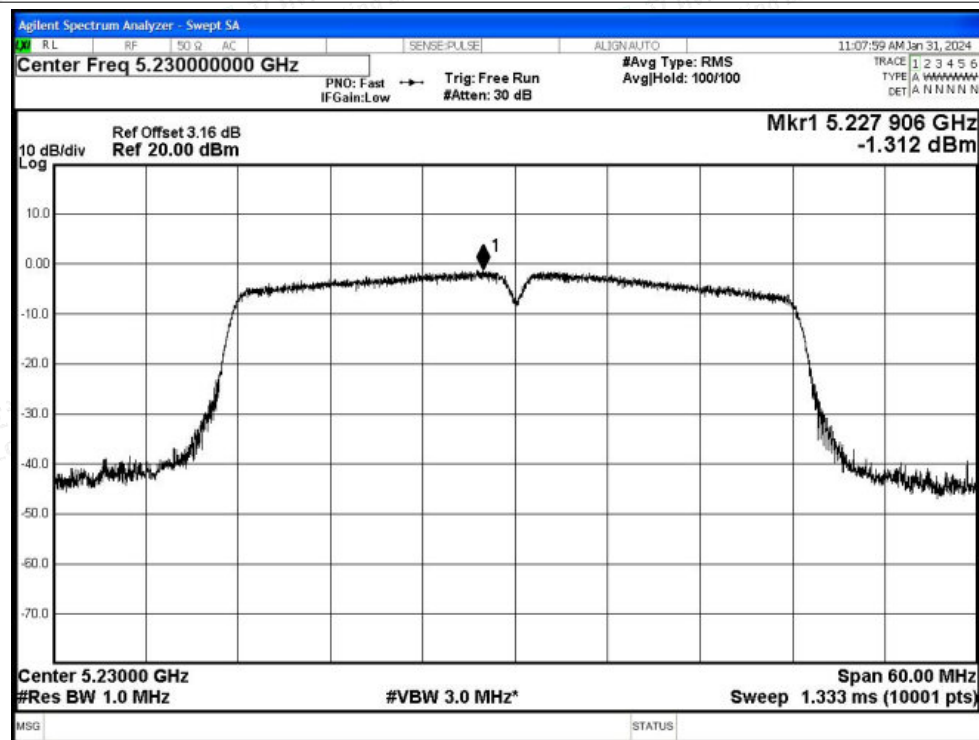


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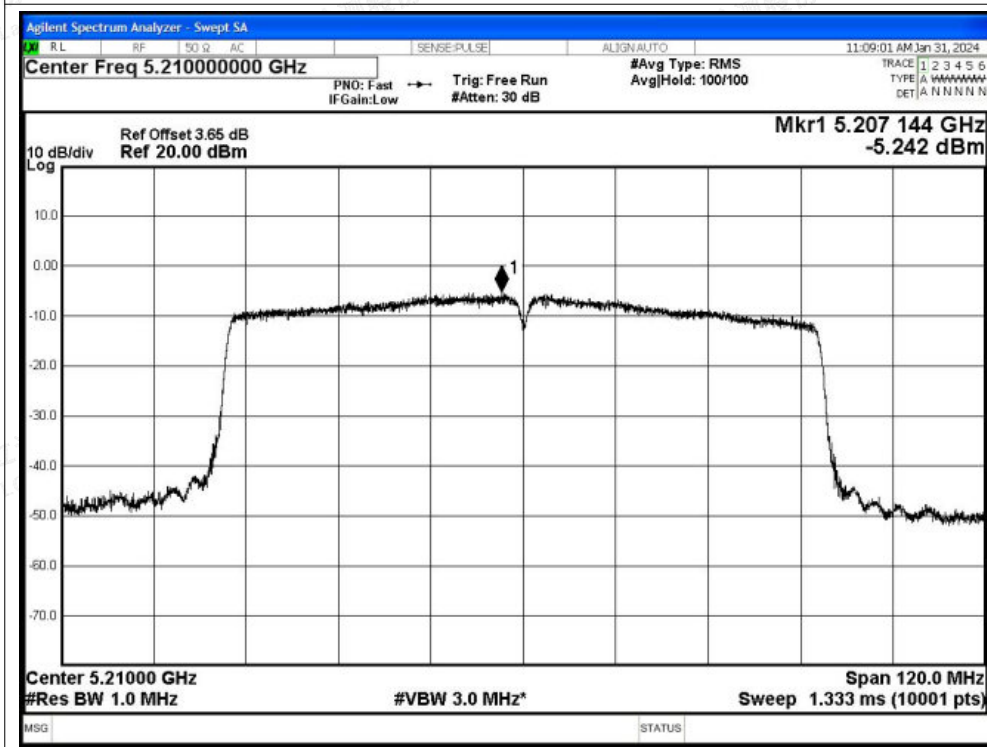




PSD NVNT ac40 5230MHz Ant0



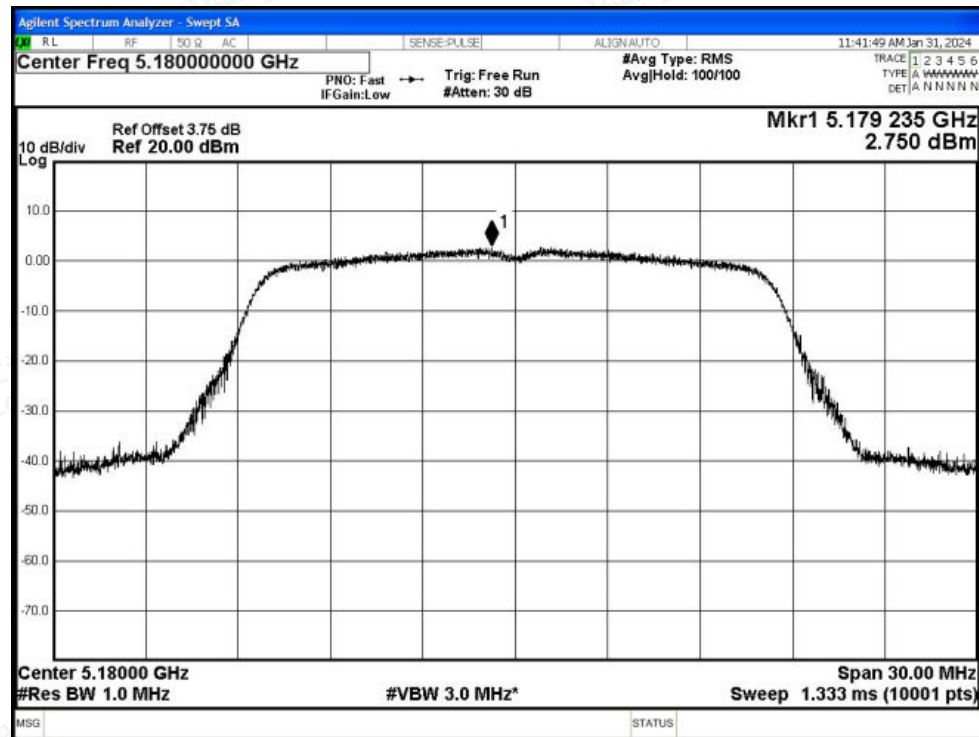
PSD NVNT ac80 5210MHz Ant0



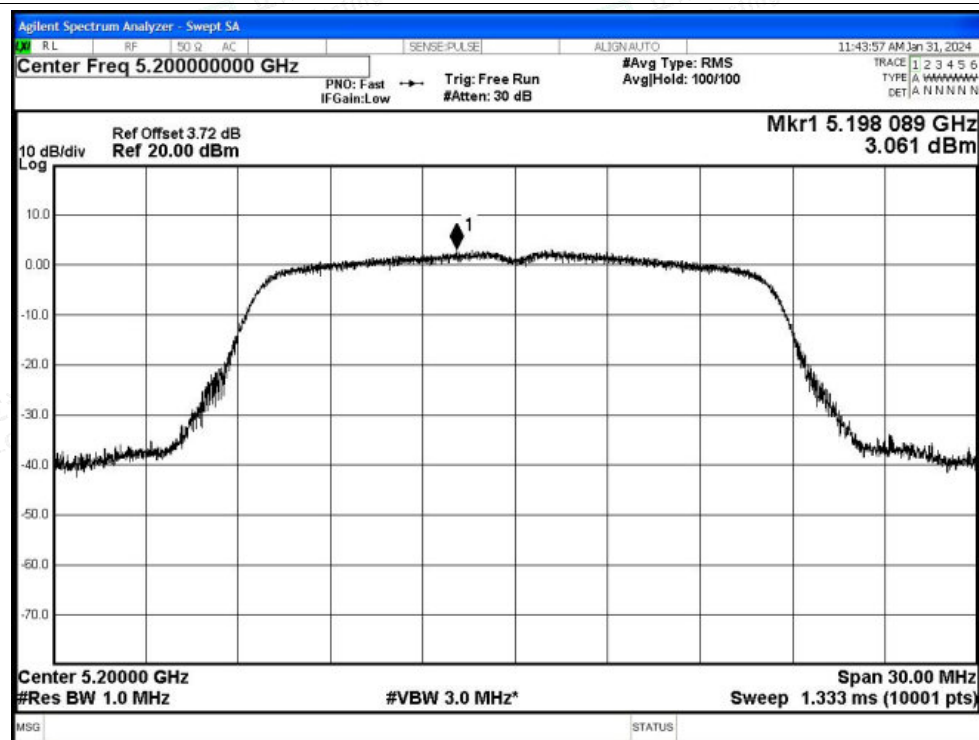


Test Graphs

PSD NVNT a 5180MHz Ant1

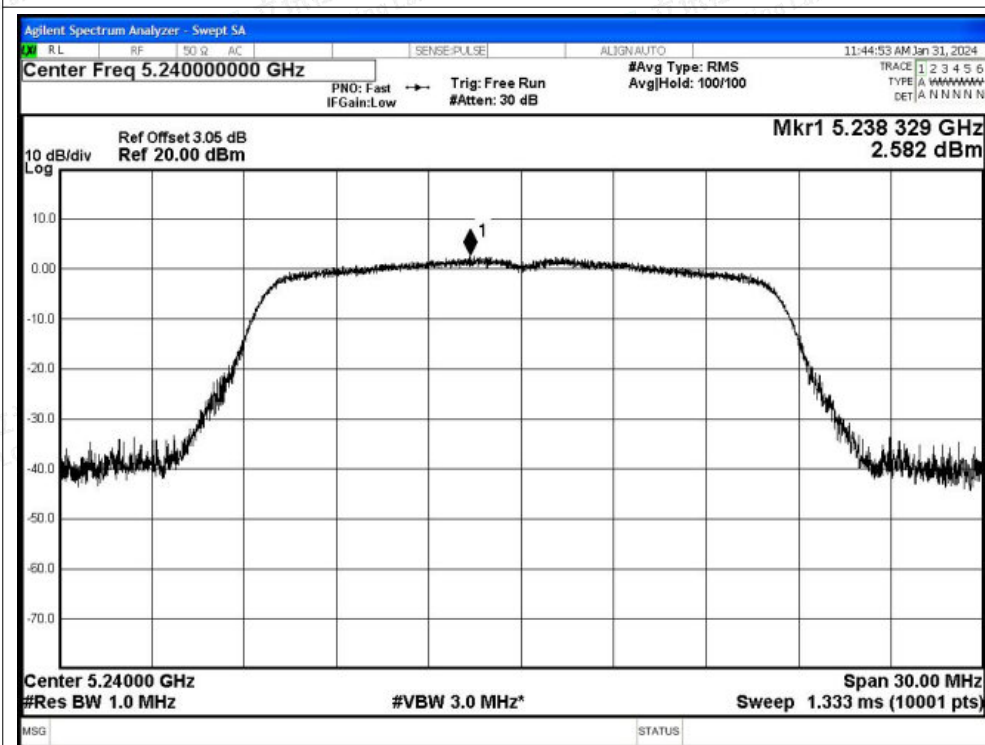


PSD NVNT a 5200MHz Ant1

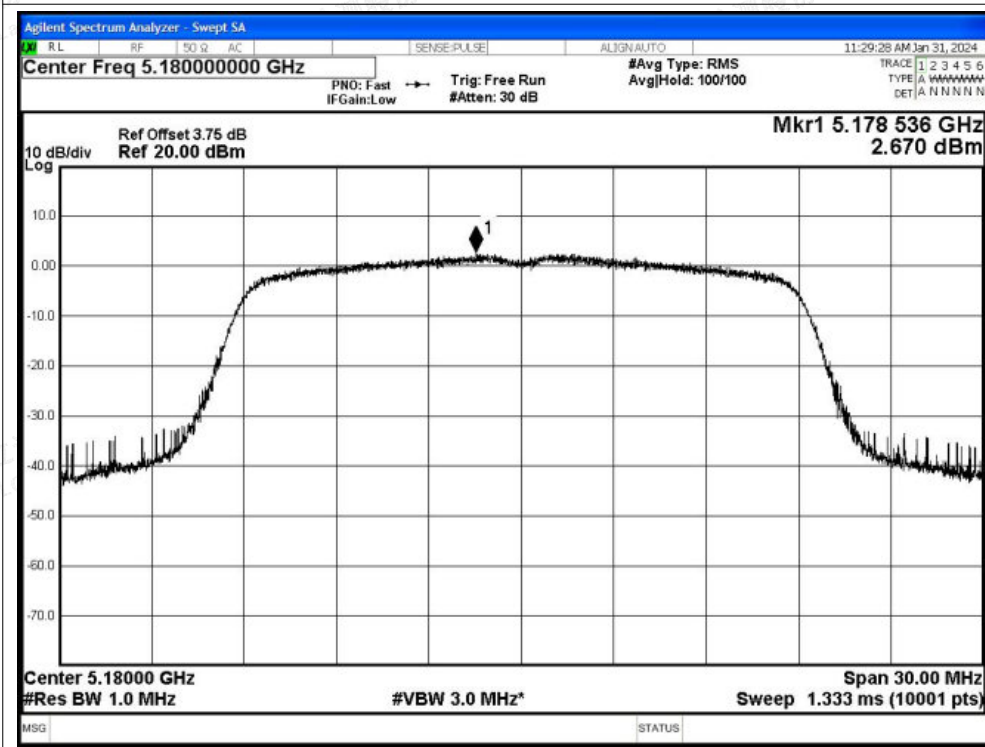




PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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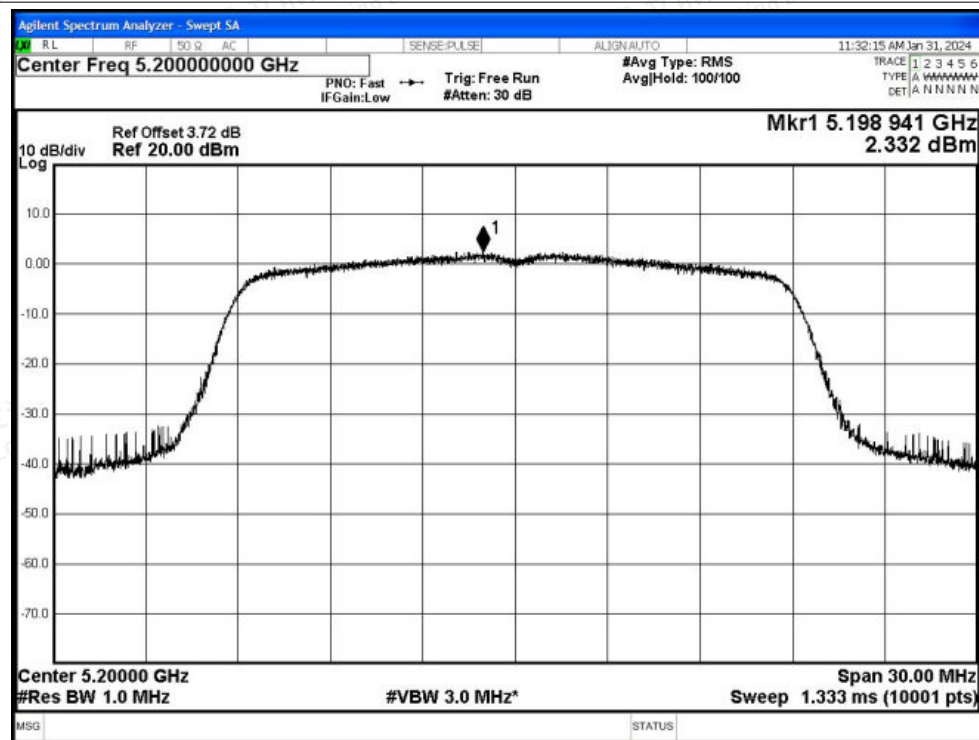
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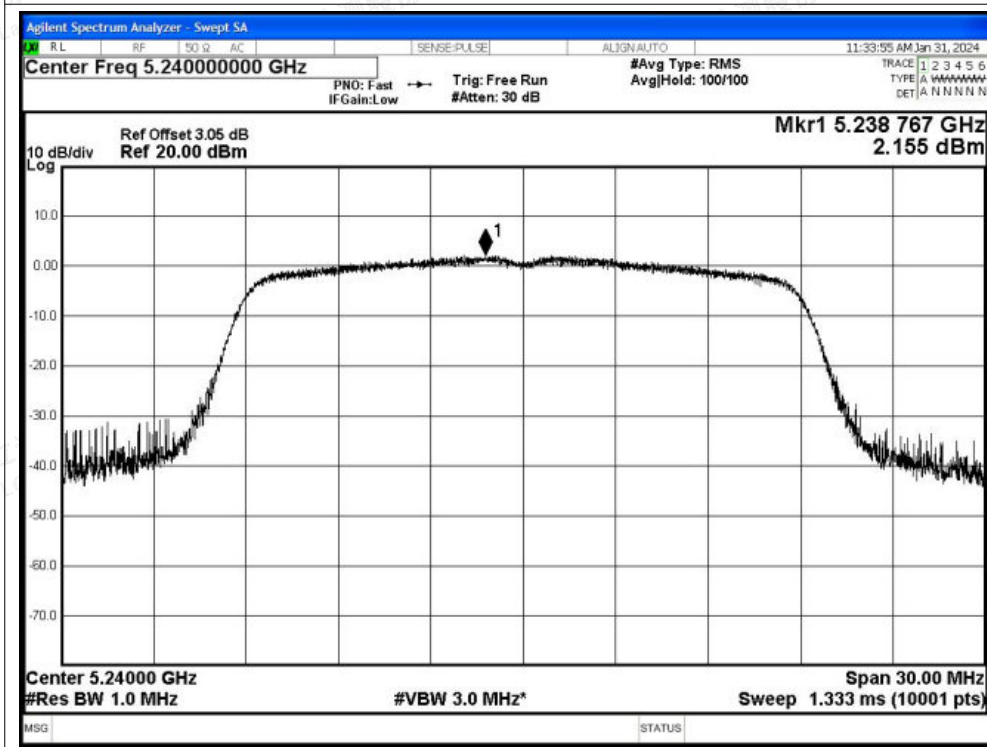
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PSD NVNT n20 5200MHz Ant1

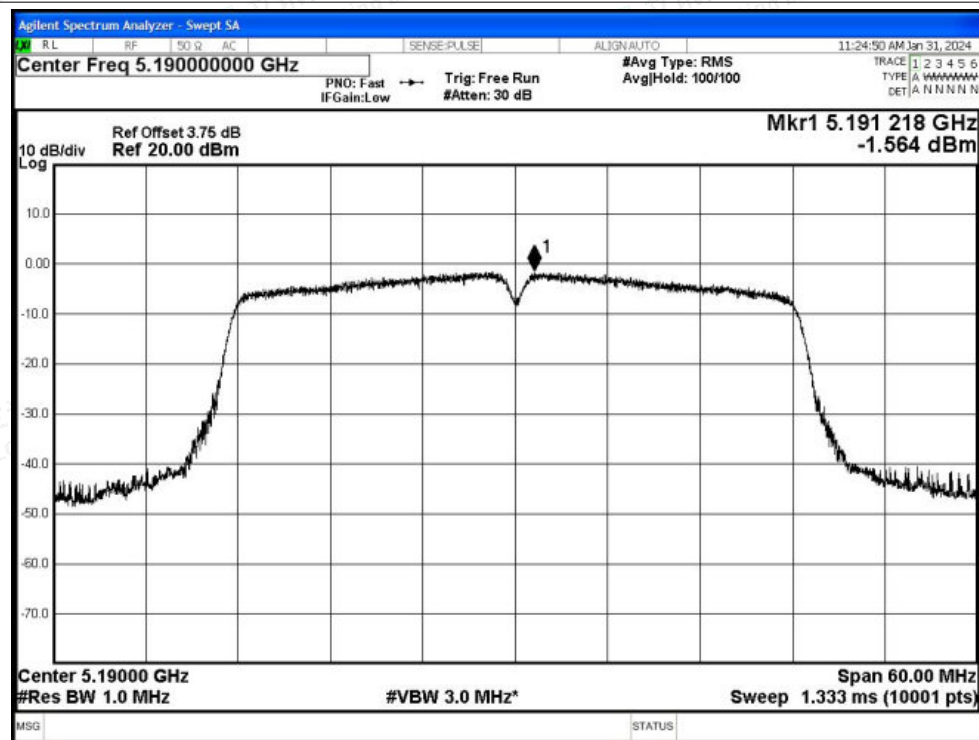


PSD NVNT n20 5240MHz Ant1

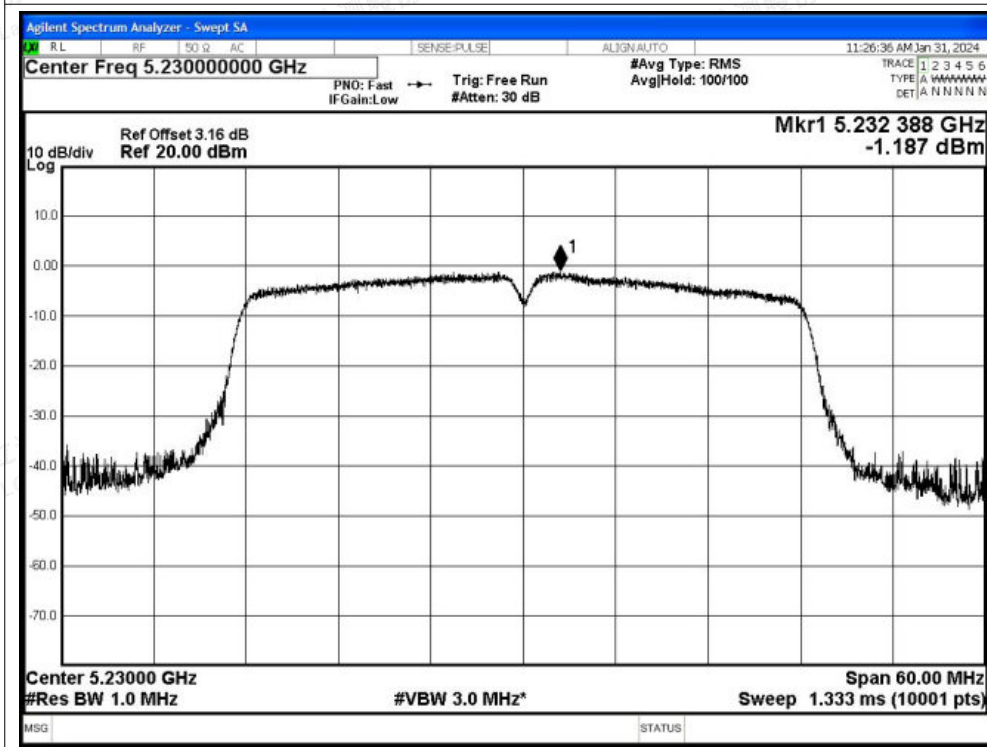




PSD NVNT n40 5190MHz Ant1

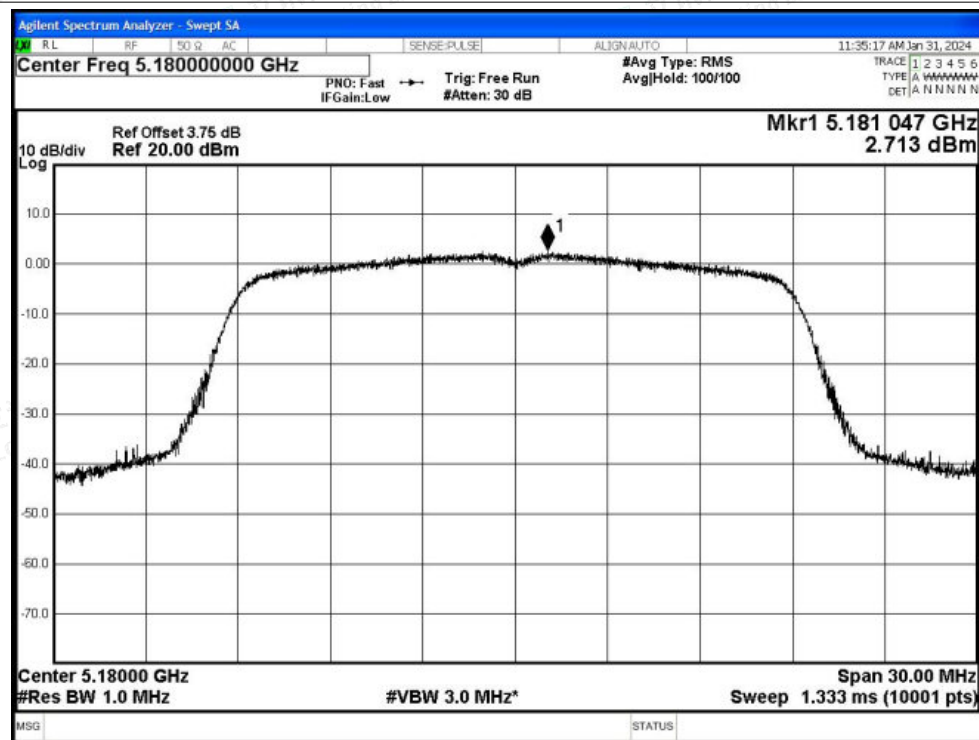


PSD NVNT n40 5230MHz Ant1

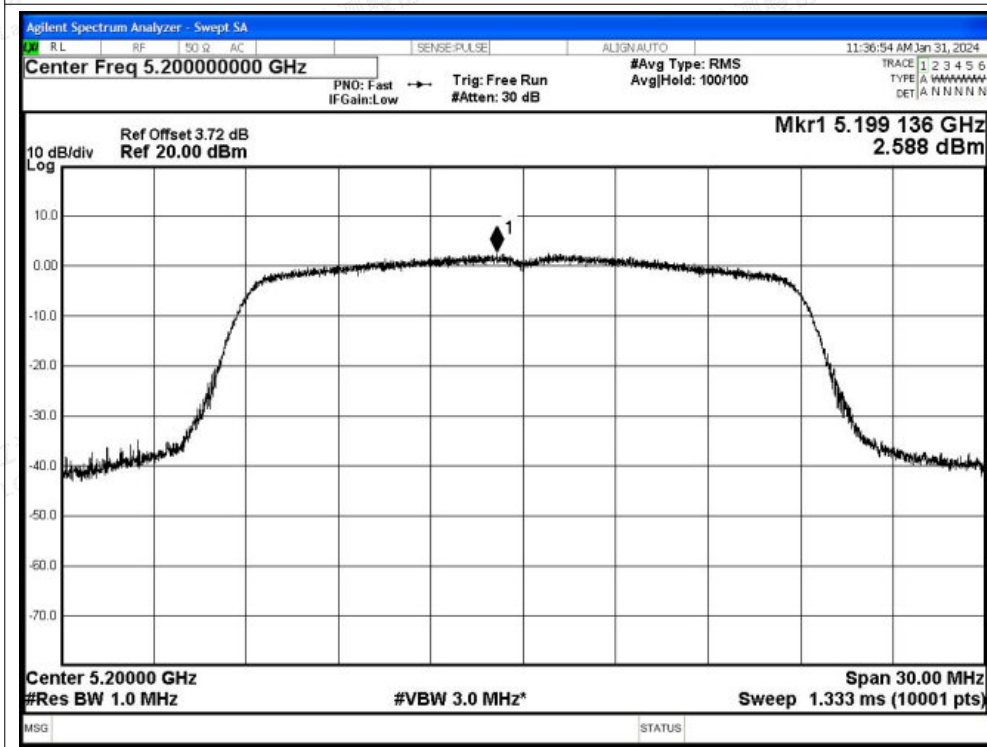




PSD NVNT ac20 5180MHz Ant1

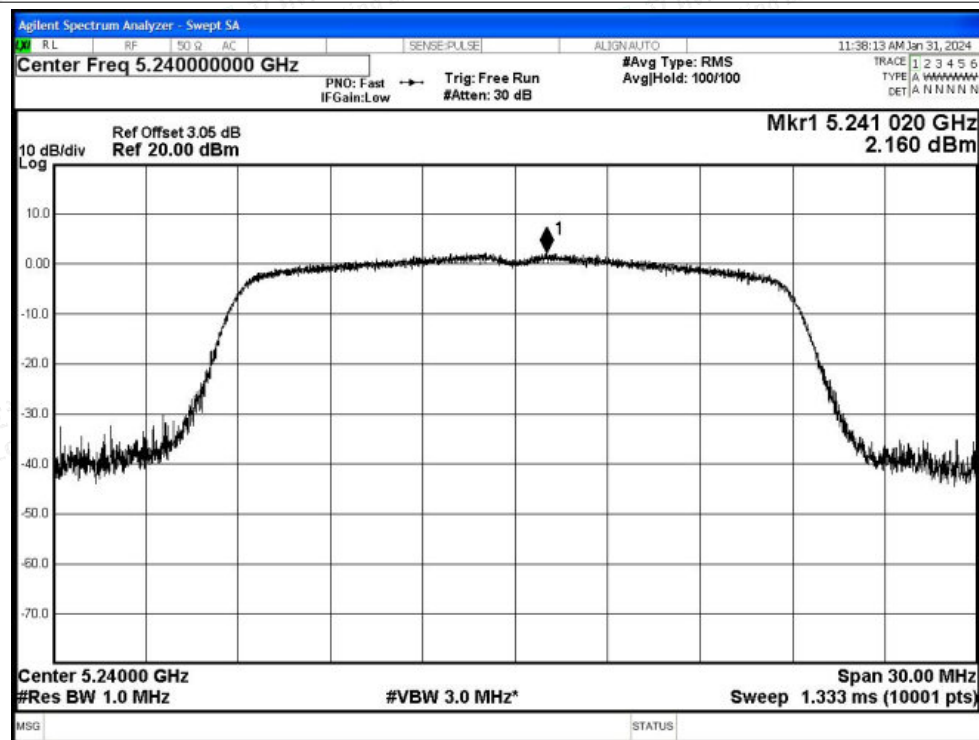


PSD NVNT ac20 5200MHz Ant1

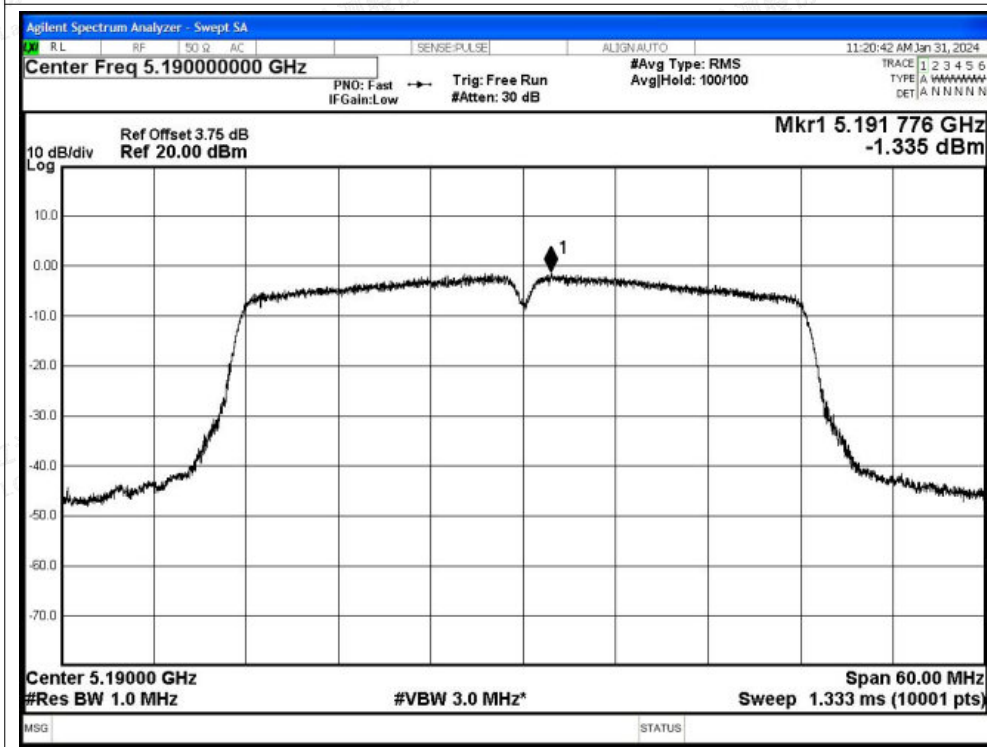




PSD NVNT ac20 5240MHz Ant1

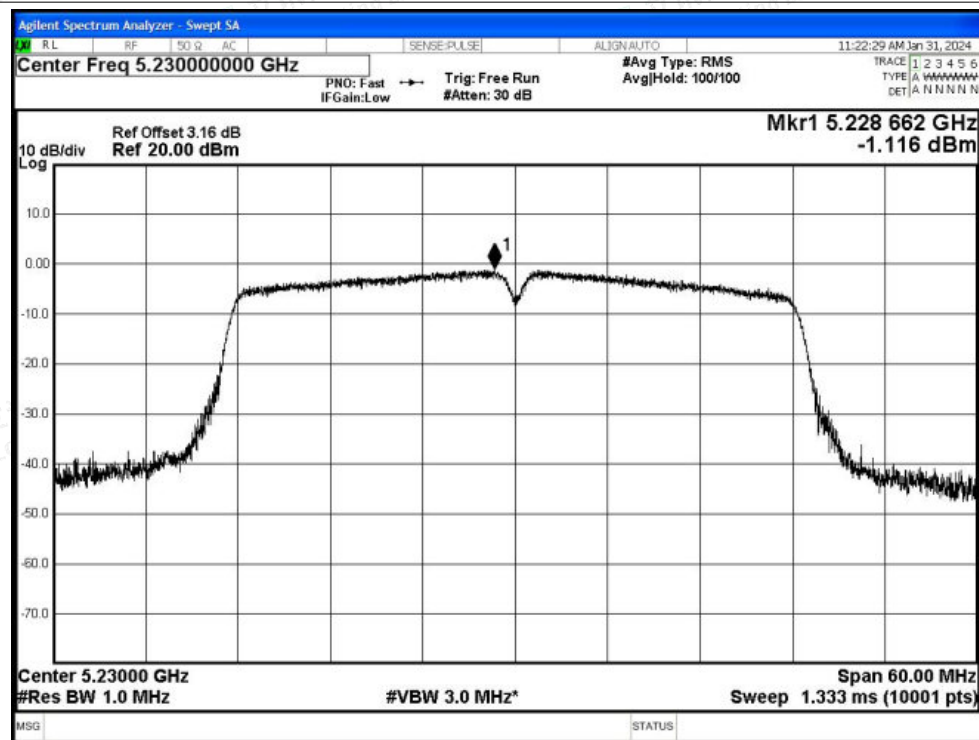


PSD NVNT ac40 5190MHz Ant1

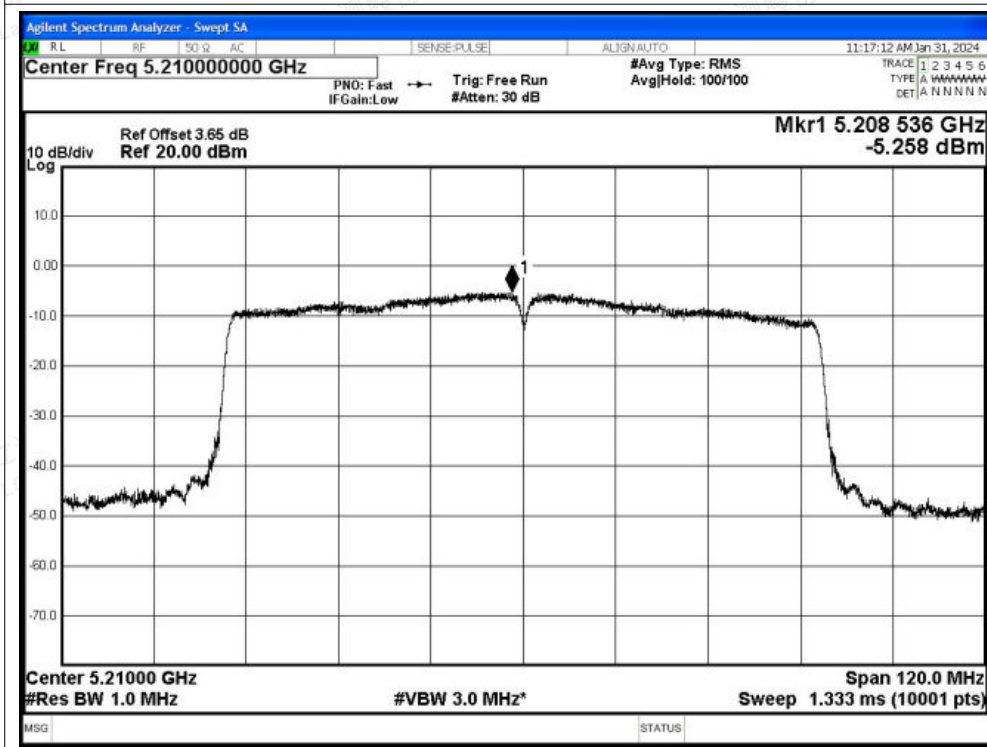




PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1





D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	4500	-50.39	2	-	46.84	Peak	68.2	Pass
NVNT	a	5180	4500	-57.9	2	0.13	39.46	Average	54	Pass
NVNT	a	5180	5147.5	-44.85	2	-	52.38	Peak	68.2	Pass
NVNT	a	5180	5148.9	-54.68	2	0.13	42.68	Average	54	Pass
NVNT	a	5180	5150	-47.21	2	-	50.02	Peak	68.2	Pass
NVNT	a	5180	5150	-55.39	2	0.13	41.97	Average	54	Pass
NVNT	a	5240	5350	-47.09	2	-	50.14	Peak	68.2	Pass
NVNT	a	5240	5350	-57.42	2	0.13	39.94	Average	54	Pass
NVNT	a	5240	5358.24	-46.55	2	-	50.68	Peak	68.2	Pass
NVNT	a	5240	5380.56	-56.31	2	0.13	41.05	Average	54	Pass
NVNT	a	5240	5460	-49.92	2	-	47.31	Peak	68.2	Pass
NVNT	a	5240	5460	-57.66	2	0.13	39.7	Average	54	Pass
NVNT	n20mimo	5180	4500	-49.75	4.43	-	49.94	Peak	68.2	Pass
NVNT	n20mimo	5180	4500	-58.94	4.43	0.15	40.75	Average	54	Pass
NVNT	n20mimo	5180	5007.5	-45.46	4.43	-	54.23	Peak	68.2	Pass
NVNT	n20mimo	5180	5140.5	-55.1	4.43	0.15	44.59	Average	54	Pass
NVNT	n20mimo	5180	5150	-46.91	4.43	-	52.78	Peak	68.2	Pass
NVNT	n20mimo	5180	5150	-54.53	4.43	0.15	45.16	Average	54	Pass
NVNT	n20mimo	5240	5350	-49.91	4.43	-	49.78	Peak	68.2	Pass
NVNT	n20mimo	5240	5350	-57.12	4.43	0.15	42.57	Average	54	Pass
NVNT	n20mimo	5240	5440.56	-46.25	4.43	-	53.44	Peak	68.2	Pass
NVNT	n20mimo	5240	5355.84	-56.67	4.43	0.15	43.02	Average	54	Pass
NVNT	n20mimo	5240	5460	-49.55	4.43	-	50.14	Peak	68.2	Pass
NVNT	n20mimo	5240	5460	-57.95	4.43	0.15	41.74	Average	54	Pass
NVNT	n40mimo	5190	4500	-48.86	4.43	-	50.83	Peak	68.2	Pass
NVNT	n40mimo	5190	4500	-58.56	4.43	0.29	41.13	Average	54	Pass
NVNT	n40mimo	5190	5144.59	-44.9	4.43	-	54.79	Peak	68.2	Pass
NVNT	n40mimo	5190	5149.7	-54.4	4.43	0.29	45.29	Average	54	Pass
NVNT	n40mimo	5190	5150	-48.32	4.43	-	51.37	Peak	68.2	Pass
NVNT	n40mimo	5190	5150	-54.4	4.43	0.29	45.29	Average	54	Pass
NVNT	n40mimo	5230	5350	-49.64	4.43	-	50.05	Peak	68.2	Pass
NVNT	n40mimo	5230	5350	-57.23	4.43	0.28	42.46	Average	54	Pass
NVNT	n40mimo	5230	5414.1	-46.5	4.43	-	53.19	Peak	68.2	Pass
NVNT	n40mimo	5230	5355.78	-56.67	4.43	0.28	43.02	Average	54	Pass
NVNT	n40mimo	5230	5460	-49.11	4.43	-	50.58	Peak	68.2	Pass
NVNT	n40mimo	5230	5460	-58.32	4.43	0.28	41.37	Average	54	Pass



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NVNT	ac20mimo	5180	4500	-49.77	4.43	-	49.92	Peak	68.2	Pass
NVNT	ac20mimo	5180	4500	-57.94	4.43	0.14	41.75	Average	54	Pass
NVNT	ac20mimo	5180	5081.7	-45.05	4.43	-	54.64	Peak	68.2	Pass
NVNT	ac20mimo	5180	5141.9	-54.95	4.43	0.14	44.74	Average	54	Pass
NVNT	ac20mimo	5180	5150	-47.18	4.43	-	52.51	Peak	68.2	Pass
NVNT	ac20mimo	5180	5150	-55.5	4.43	0.14	44.19	Average	54	Pass
NVNT	ac20mimo	5240	5350	-49.32	4.43	-	50.37	Peak	68.2	Pass
NVNT	ac20mimo	5240	5350	-57.65	4.43	0.14	42.04	Average	54	Pass
NVNT	ac20mimo	5240	5412.48	-46.38	4.43	-	53.31	Peak	68.2	Pass
NVNT	ac20mimo	5240	5354.88	-56.53	4.43	0.14	43.16	Average	54	Pass
NVNT	ac20mimo	5240	5460	-48.94	4.43	-	50.75	Peak	68.2	Pass
NVNT	ac20mimo	5240	5460	-57.57	4.43	0.14	42.12	Average	54	Pass
NVNT	ac40mimo	5190	4500	-49.43	4.43	-	50.26	Peak	68.2	Pass
NVNT	ac40mimo	5190	4500	-58.24	4.43	0.28	41.45	Average	54	Pass
NVNT	ac40mimo	5190	5127.8	-43.97	4.43	-	55.72	Peak	68.2	Pass
NVNT	ac40mimo	5190	5143.13	-54.76	4.43	0.28	44.93	Average	54	Pass
NVNT	ac40mimo	5190	5150	-46.31	4.43	-	53.38	Peak	68.2	Pass
NVNT	ac40mimo	5190	5150	-54.93	4.43	0.28	44.76	Average	54	Pass
NVNT	ac40mimo	5230	5350	-49.19	4.43	-	50.50	Peak	68.2	Pass
NVNT	ac40mimo	5230	5350	-57.6	4.43	0.28	42.09	Average	54	Pass
NVNT	ac40mimo	5230	5356.32	-46.62	4.43	-	53.07	Peak	68.2	Pass
NVNT	ac40mimo	5230	5360.91	-56.64	4.43	0.28	43.05	Average	54	Pass
NVNT	ac40mimo	5230	5460	-50.43	4.43	-	49.26	Peak	68.2	Pass
NVNT	ac40mimo	5230	5460	-58.2	4.43	0.28	41.49	Average	54	Pass
NVNT	ac80mimo	5210	5350	-47.6	4.43	-	52.09	Peak	68.2	Pass
NVNT	ac80mimo	5210	5350	-57.05	4.43	0.55	42.64	Average	54	Pass
NVNT	ac80mimo	5210	5445.15	-46.53	4.43	-	53.16	Peak	68.2	Pass
NVNT	ac80mimo	5210	5451.75	-56.58	4.43	0.55	43.11	Average	54	Pass
NVNT	ac80mimo	5210	5460	-50.66	4.43	-	49.03	Peak	68.2	Pass
NVNT	ac80mimo	5210	5460	-57.73	4.43	0.55	41.96	Average	54	Pass
NVNT	ac80mimo	5210	4500	-49.61	4.43	-	50.08	Peak	68.2	Pass
NVNT	ac80mimo	5210	4500	-58.08	4.43	0.55	41.61	Average	54	Pass
NVNT	ac80mimo	5210	5139.9	-44.07	4.43	-	55.62	Peak	68.2	Pass
NVNT	ac80mimo	5210	5149.38	-53.43	4.43	0.55	46.26	Average	54	Pass
NVNT	ac80mimo	5210	5150	-44.57	4.43	-	55.12	Peak	68.2	Pass
NVNT	ac80mimo	5210	5150	-53.16	4.43	0.55	46.53	Average	54	Pass

Note: 802.11a mode, only show the worst set of antenna0 data.

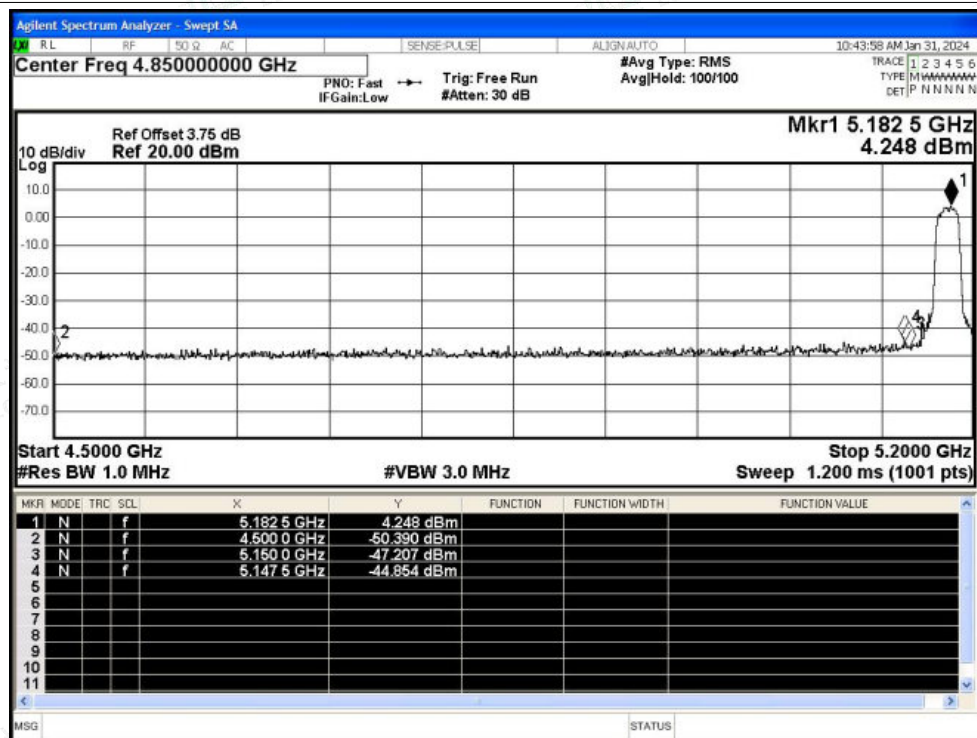


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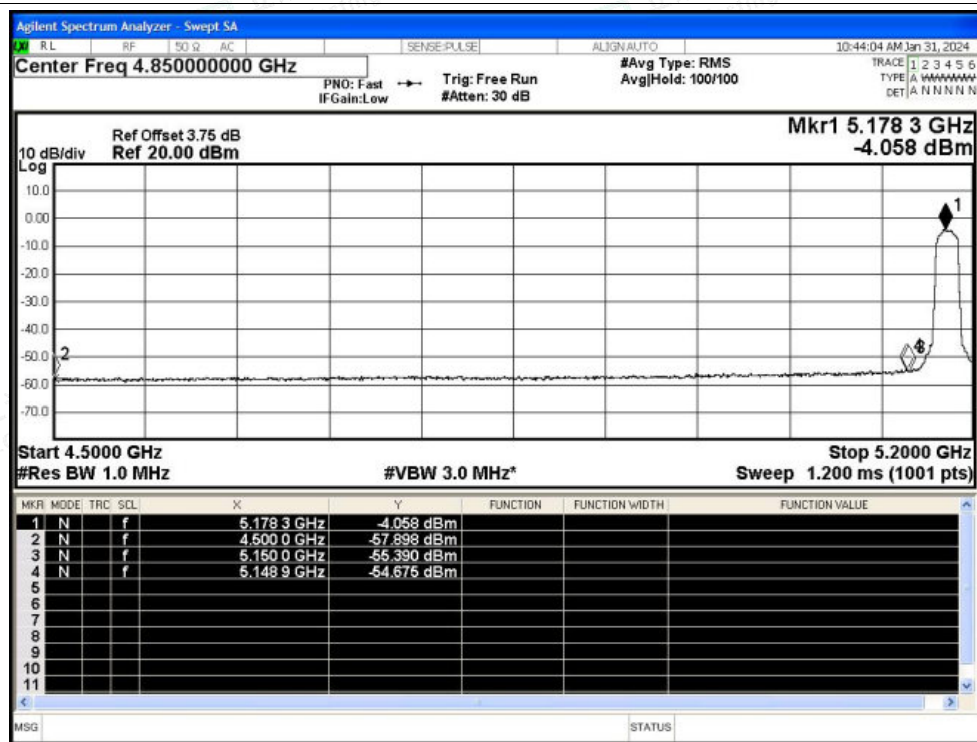


Test Graphs

Restrict Band NVNT a 5180MHz Peak



Restrict Band NVNT a 5180MHz Average



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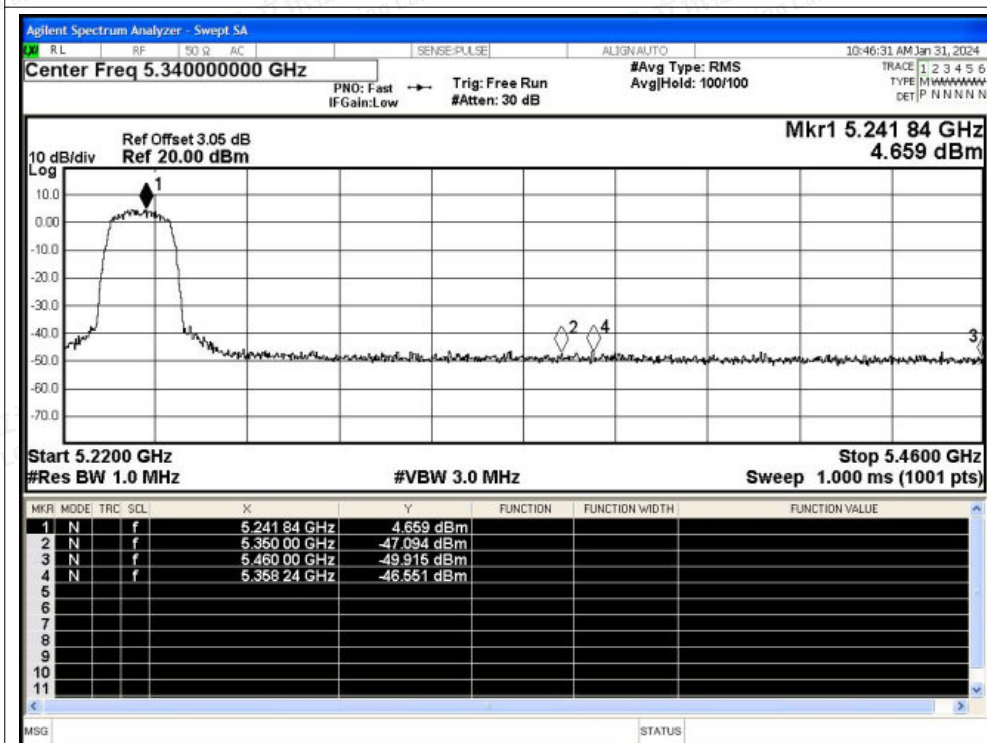
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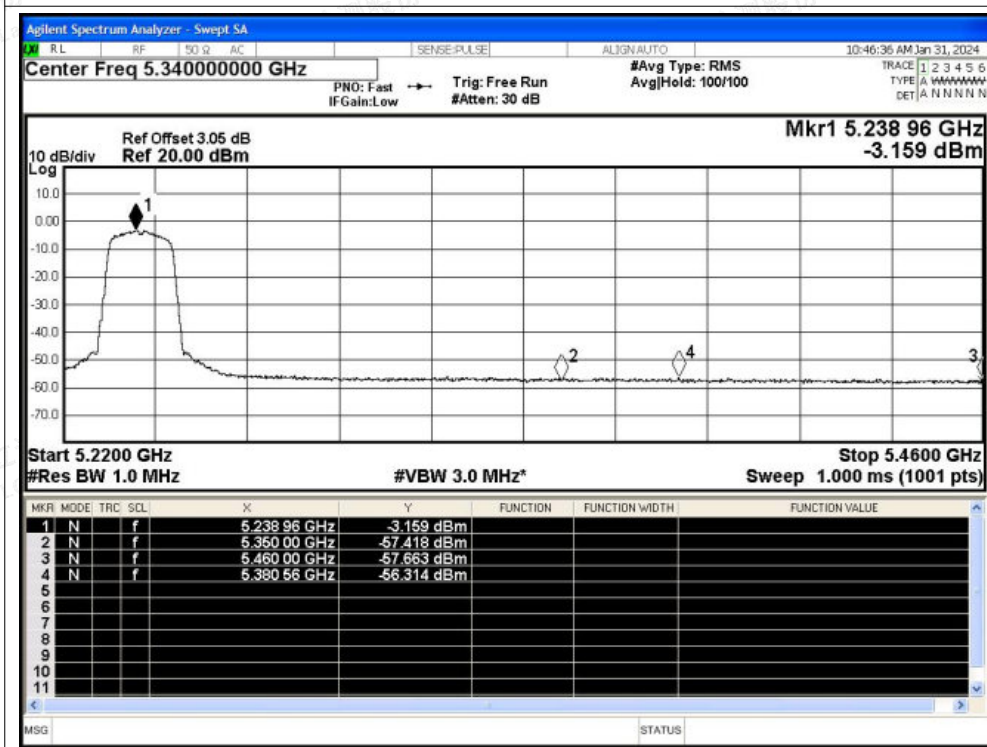
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Restrict Band NVNT a 5240MHz Peak



Restrict Band NVNT a 5240MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

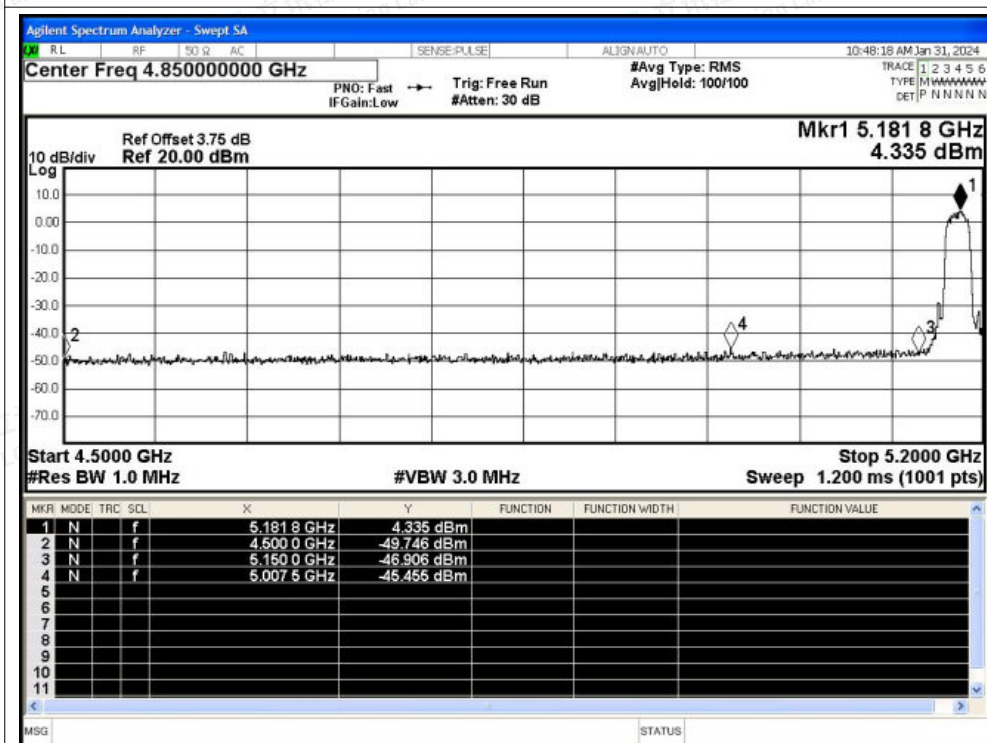
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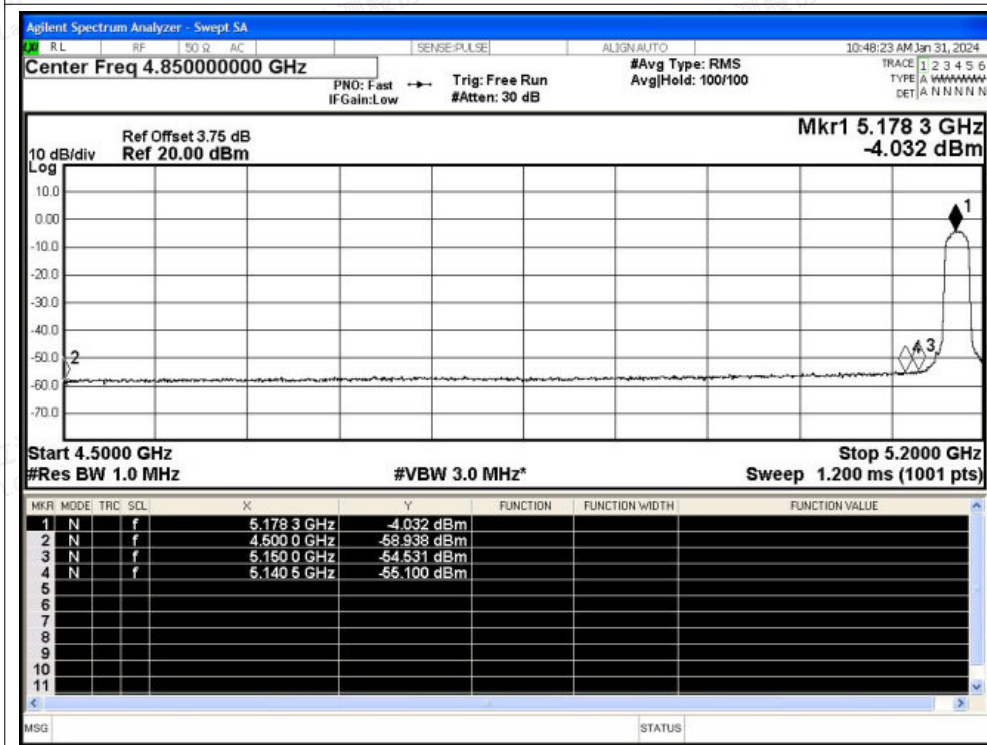
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Restrict Band NVNT n20 5180MHz Peak



Restrict Band NVNT n20 5180MHz Average



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