



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Smart POS

Test Model: WIZARPOS Q3min

Environmental Conditions

Temperature:	24.3°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Paddi Chen



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D.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5180	Ant1	26.73
NVNT	a	5200	Ant1	28.28
NVNT	a	5240	Ant1	28.93
NVNT	n20	5180	Ant1	27.21
NVNT	n20	5200	Ant1	28.58
NVNT	n20	5240	Ant1	28.56
NVNT	n40	5190	Ant1	53.88
NVNT	n40	5230	Ant1	46.96
NVNT	ac20	5180	Ant1	28.28
NVNT	ac20	5200	Ant1	28.33
NVNT	ac20	5240	Ant1	27.45
NVNT	ac40	5190	Ant1	47.27
NVNT	ac40	5230	Ant1	48.82
NVNT	ac80	5210	Ant1	86.04

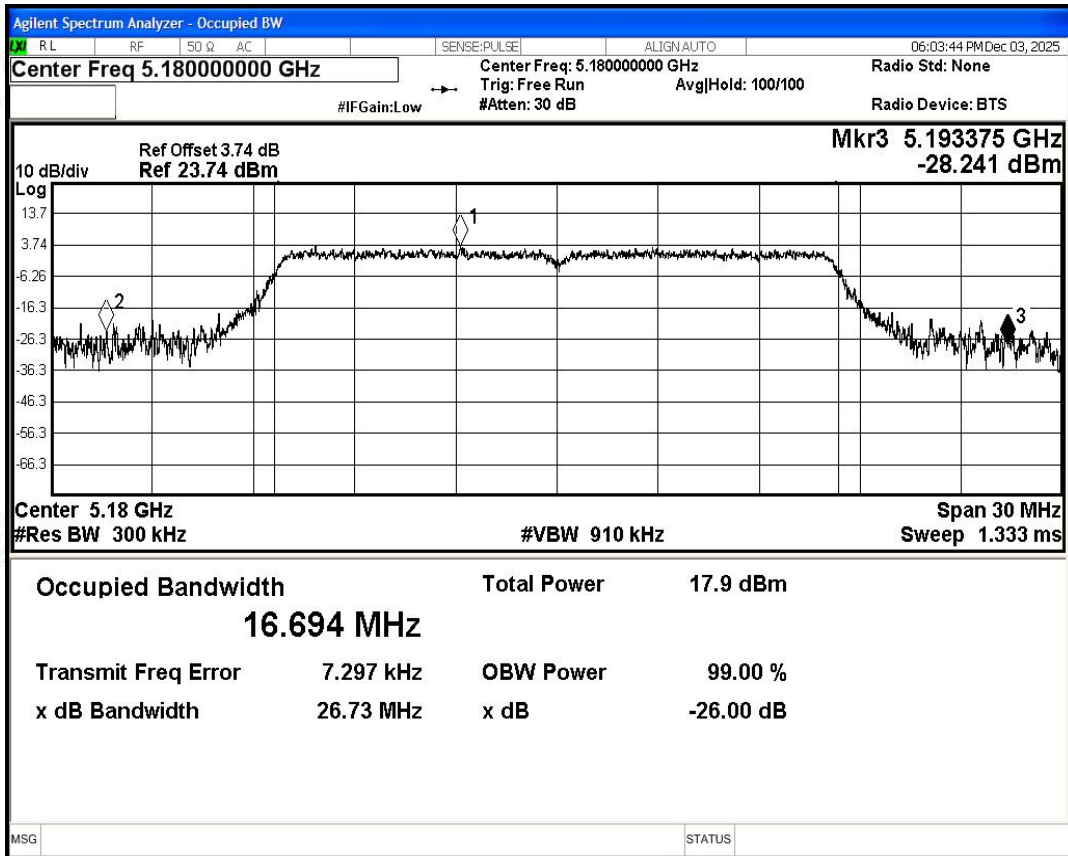


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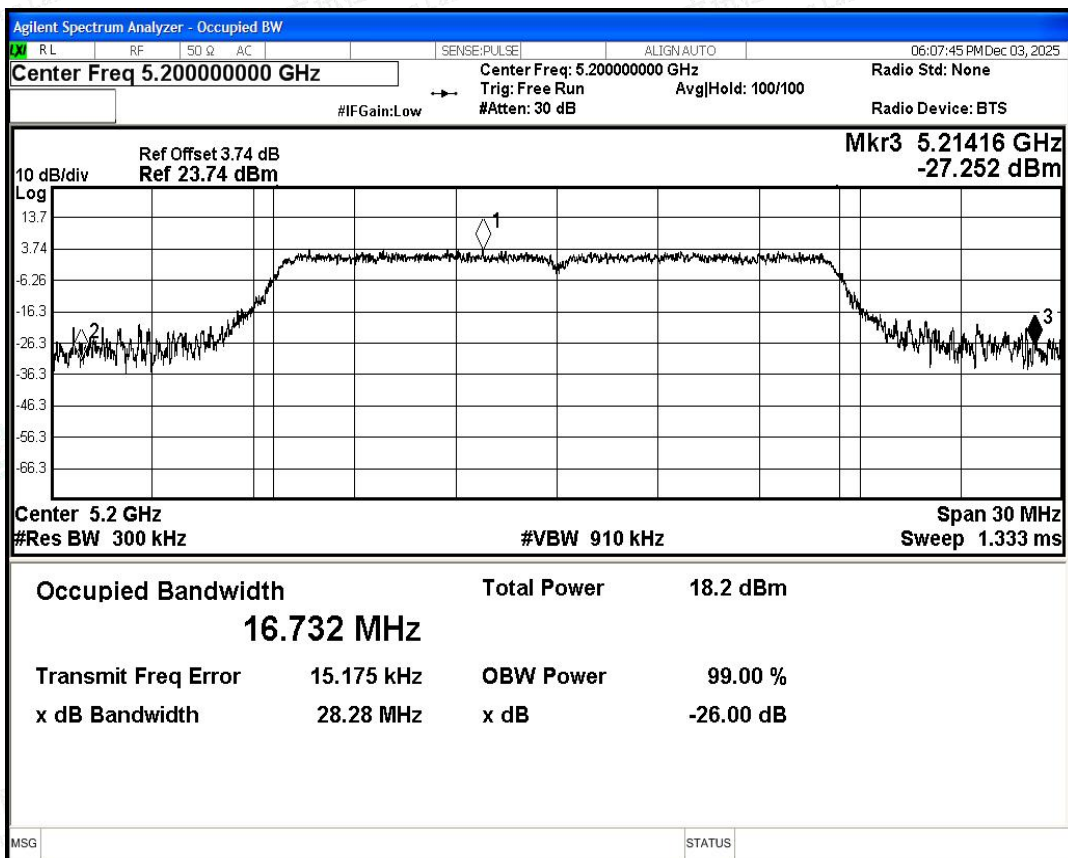
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-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1

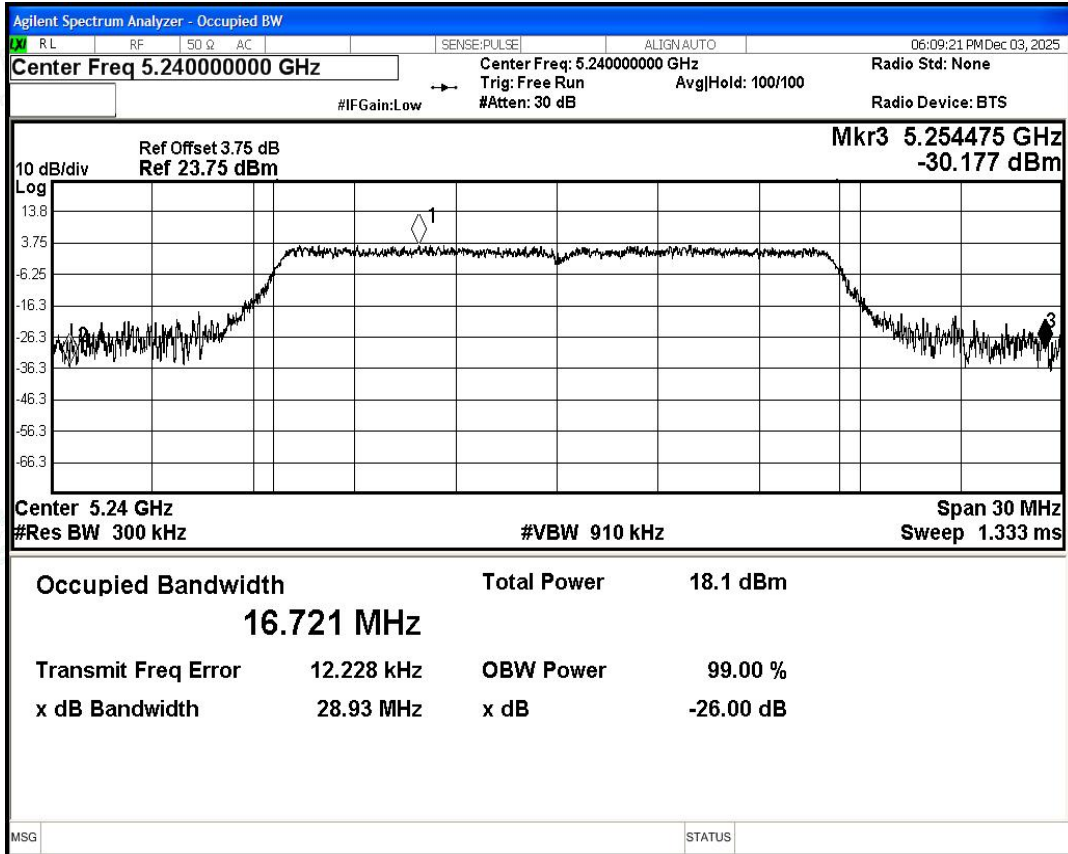


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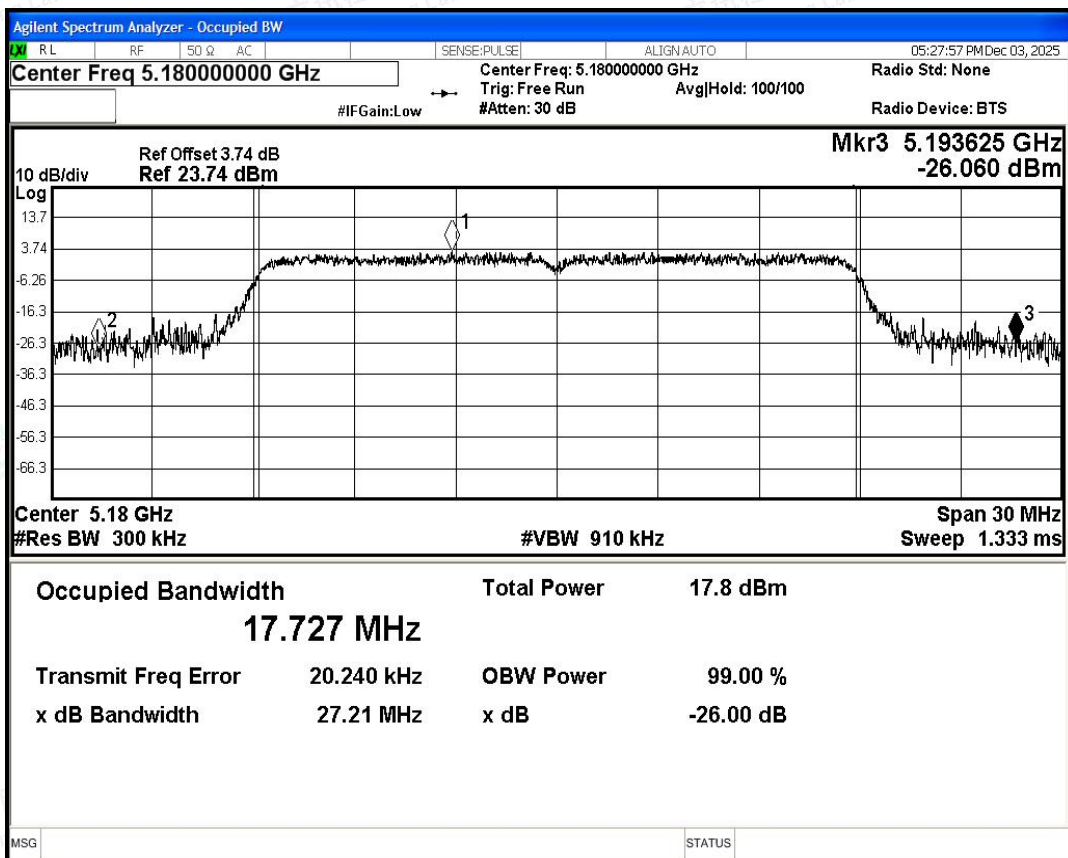
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

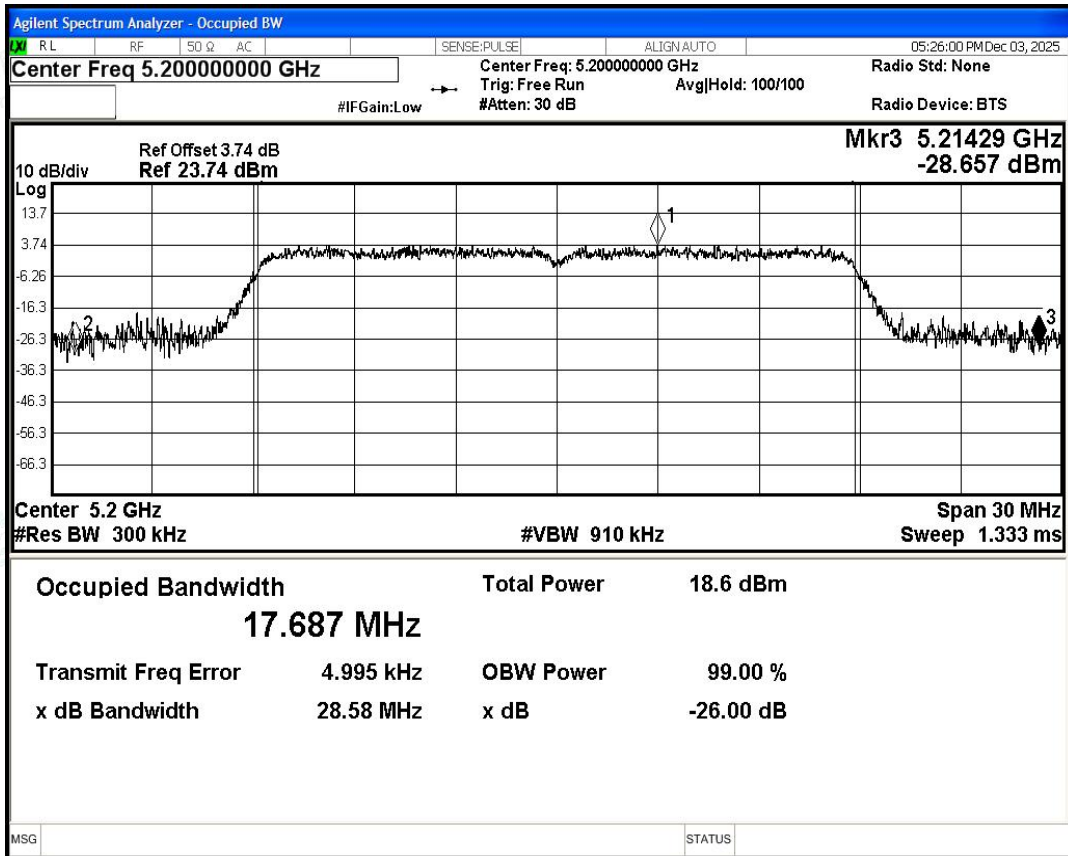


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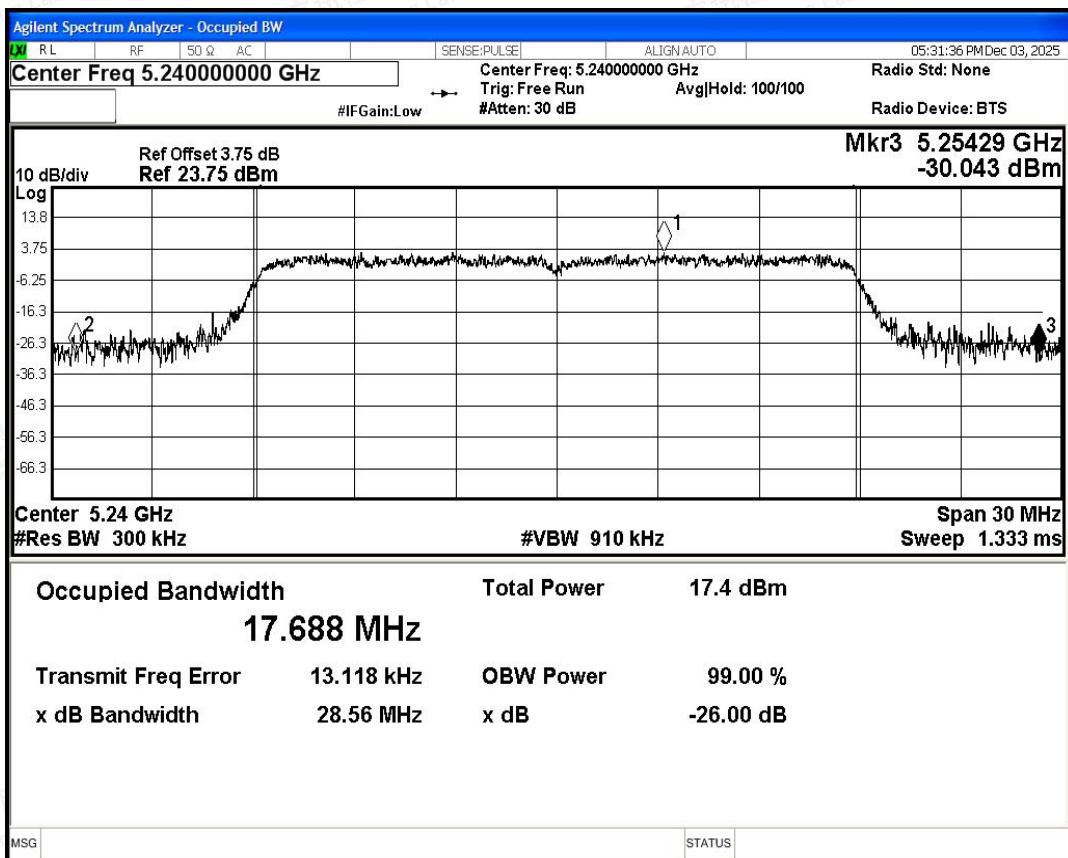
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1

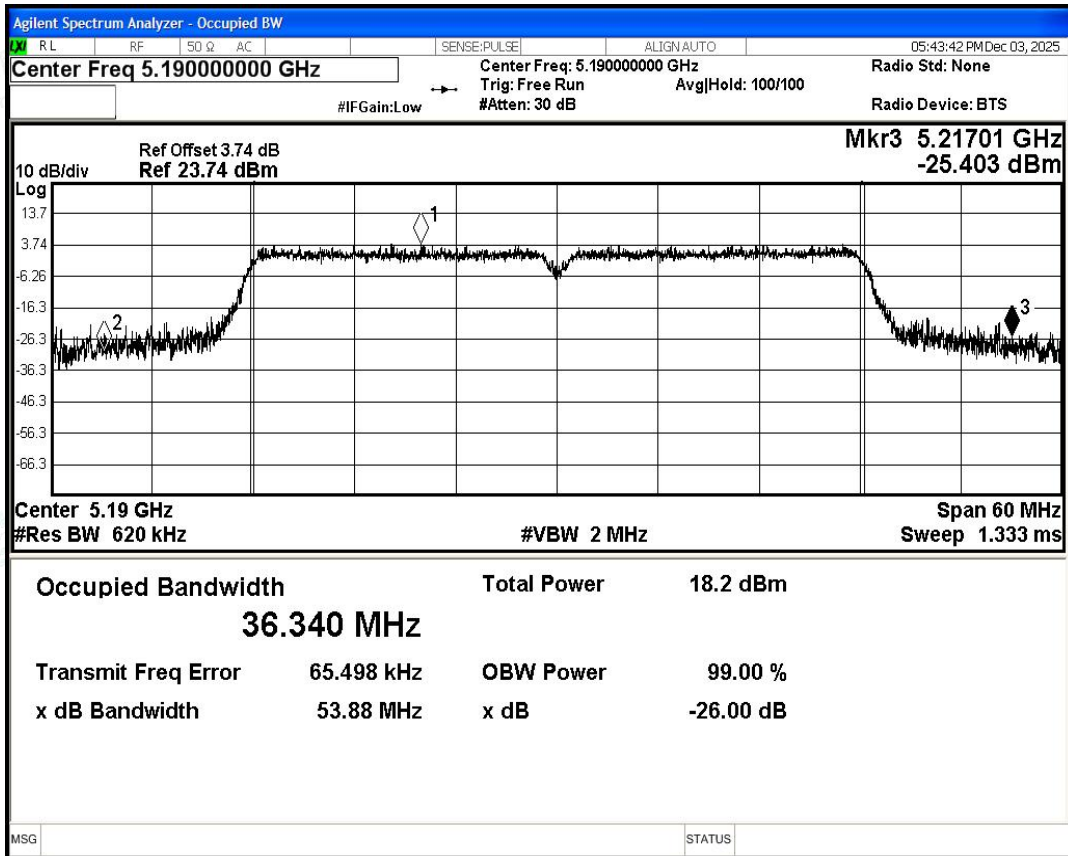


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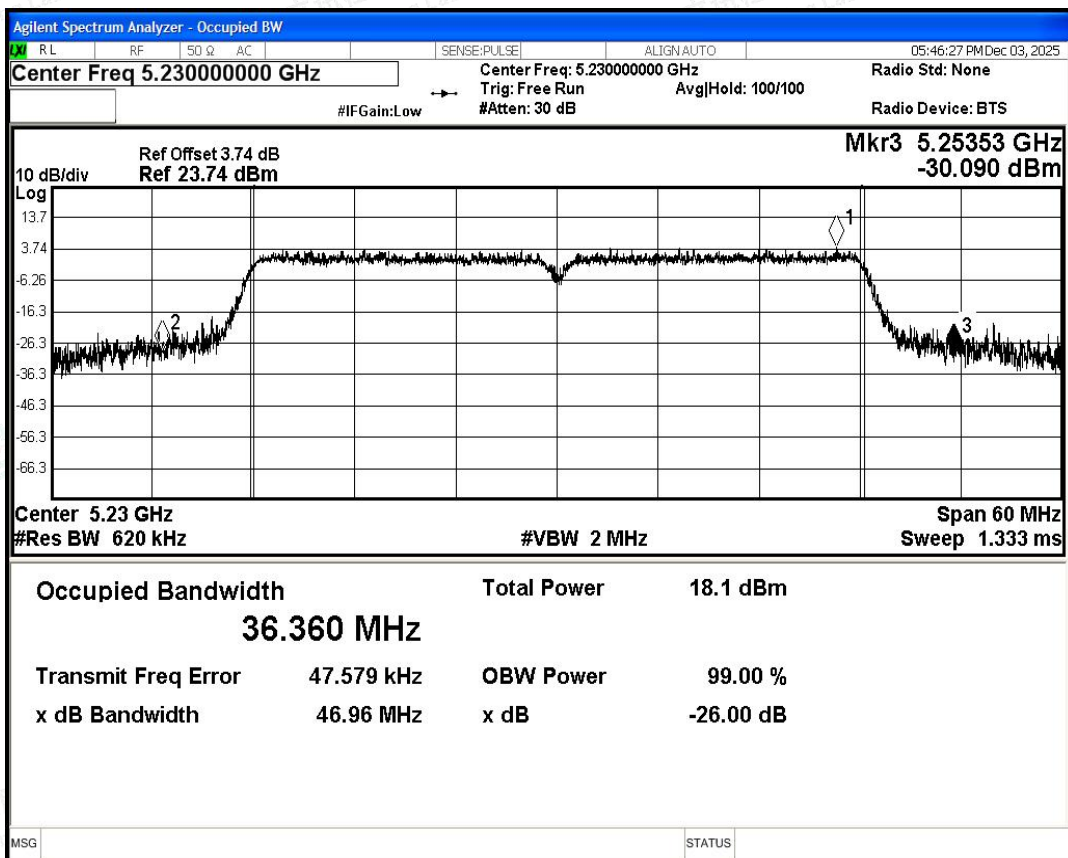
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

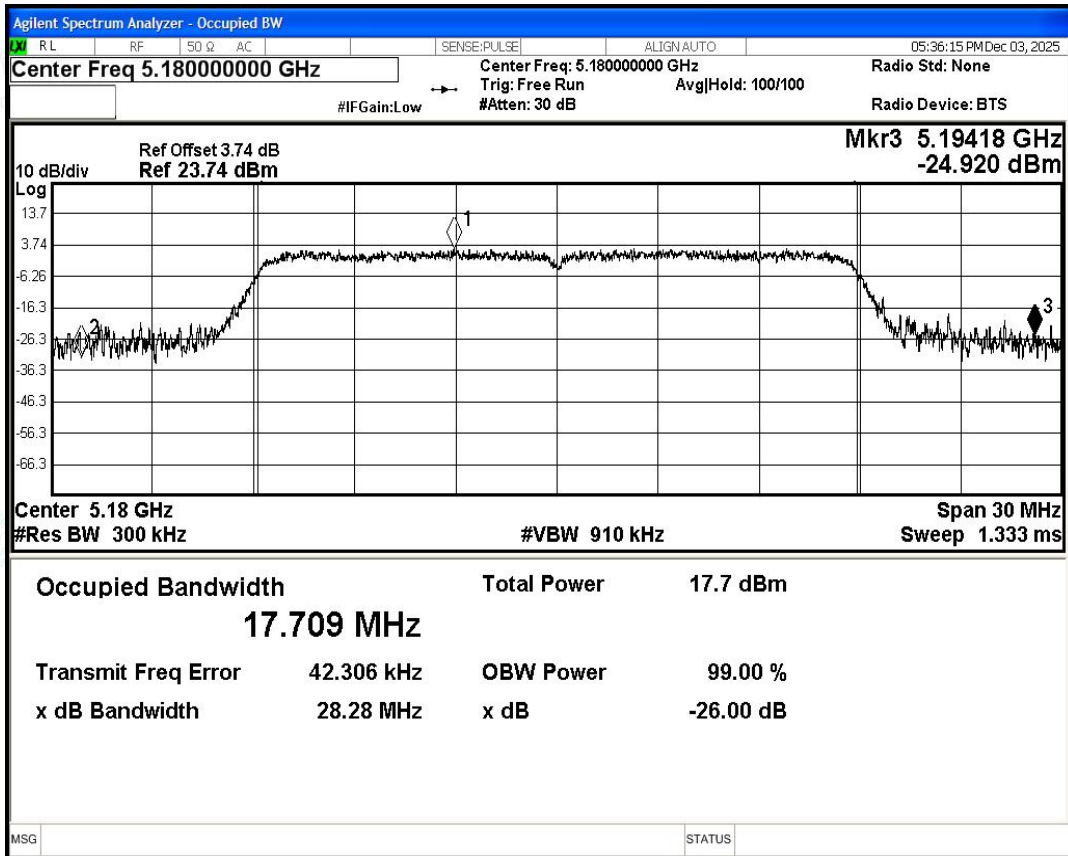


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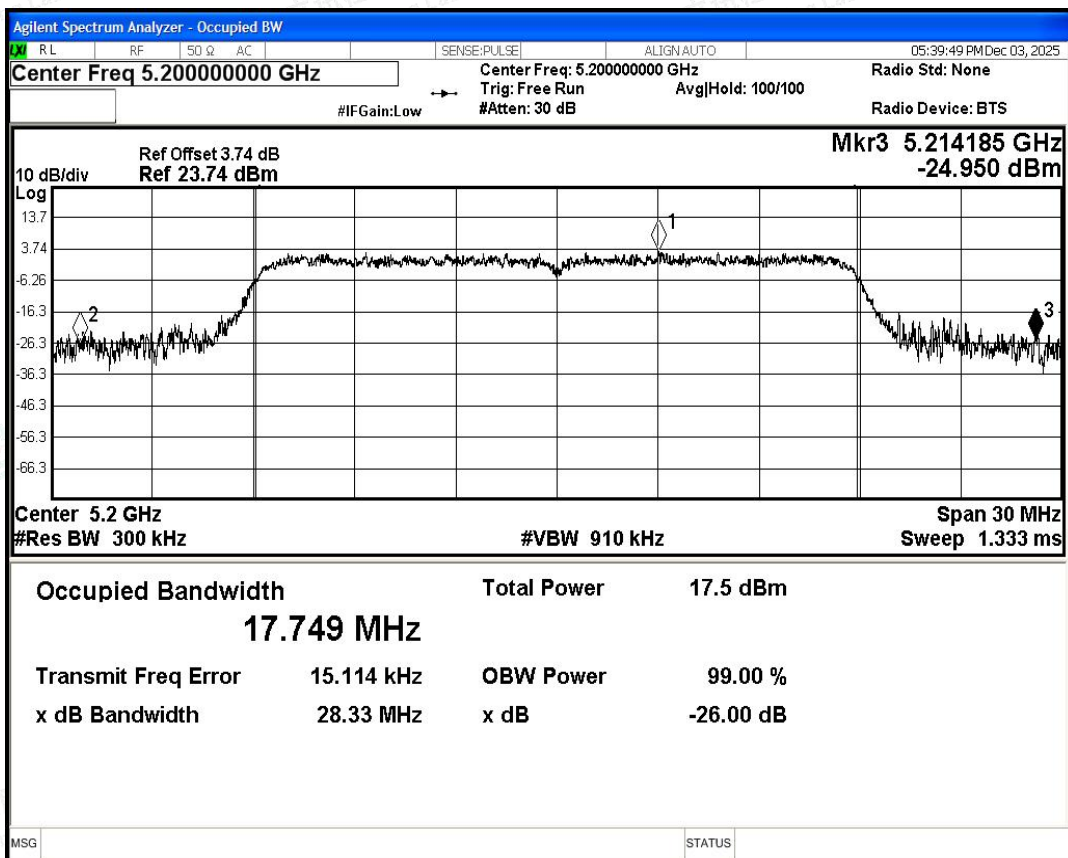
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1

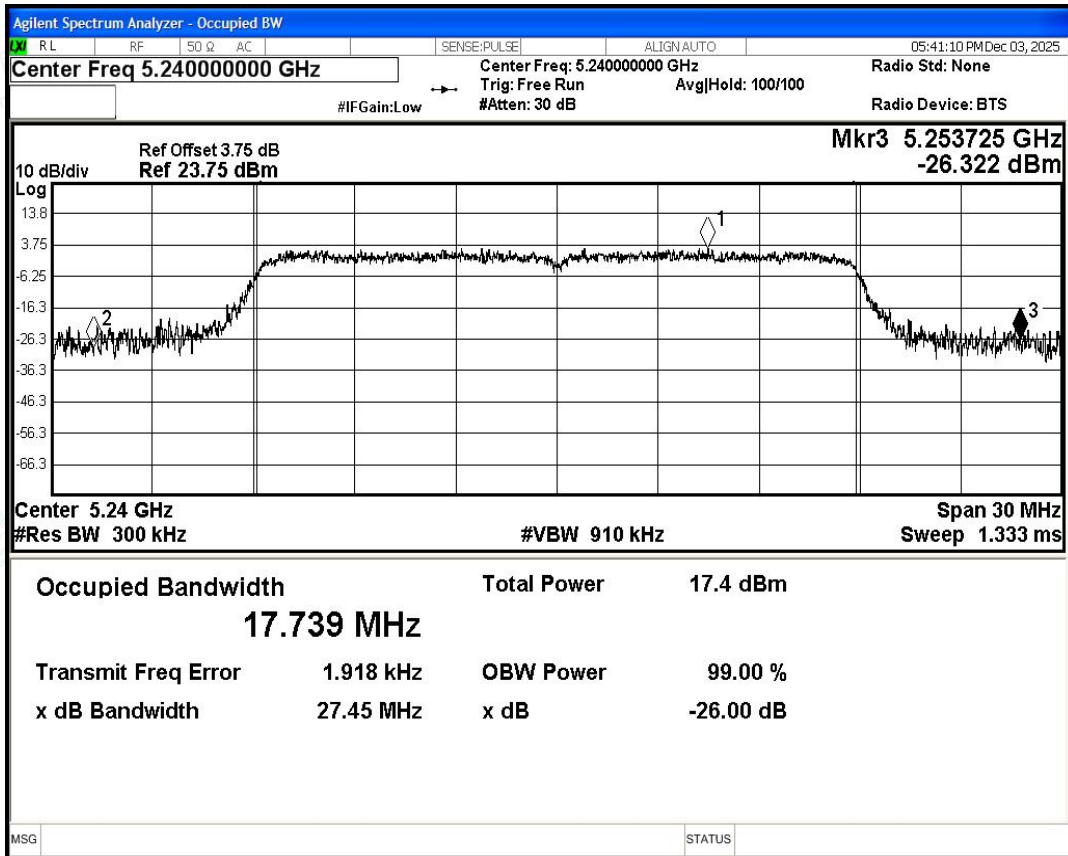


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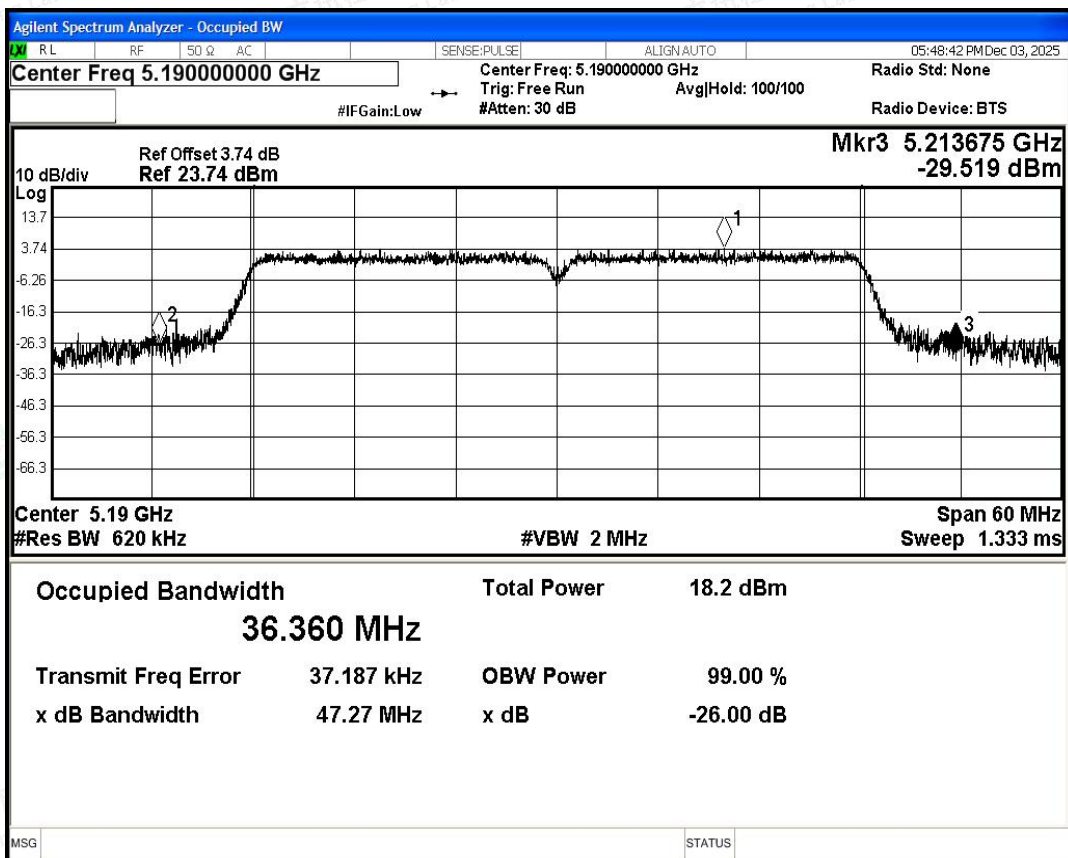
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1

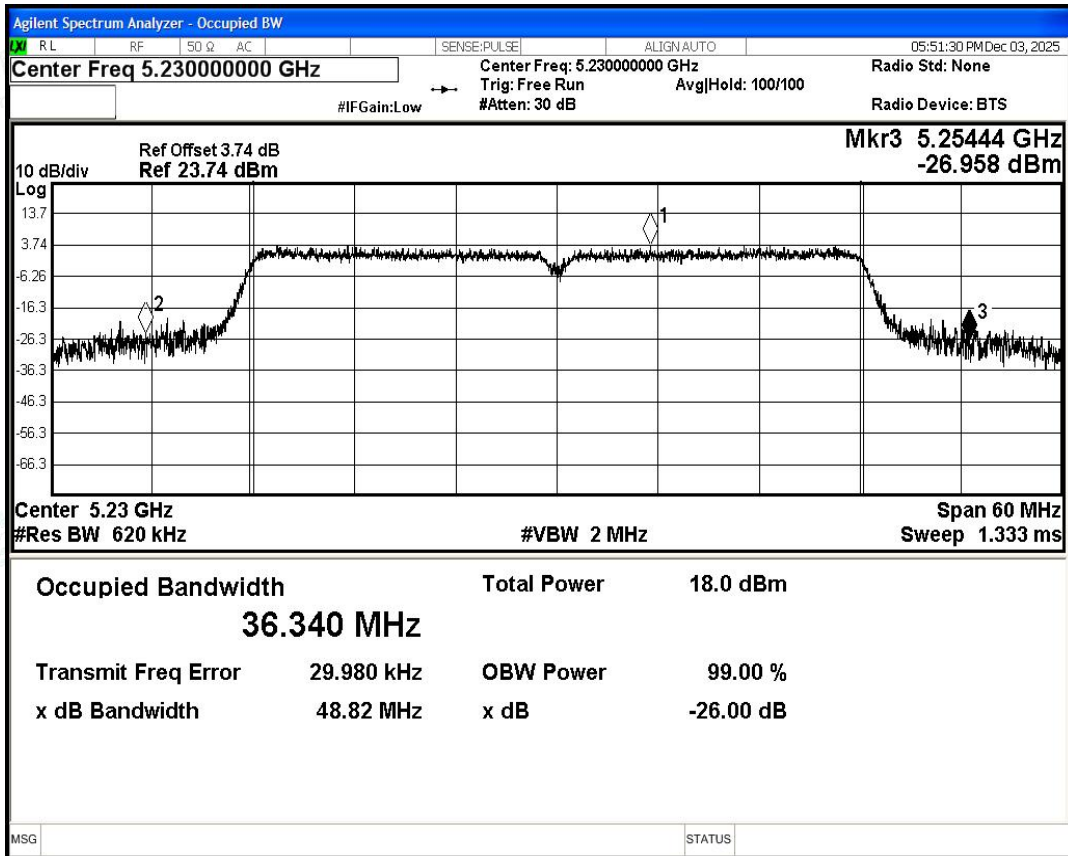


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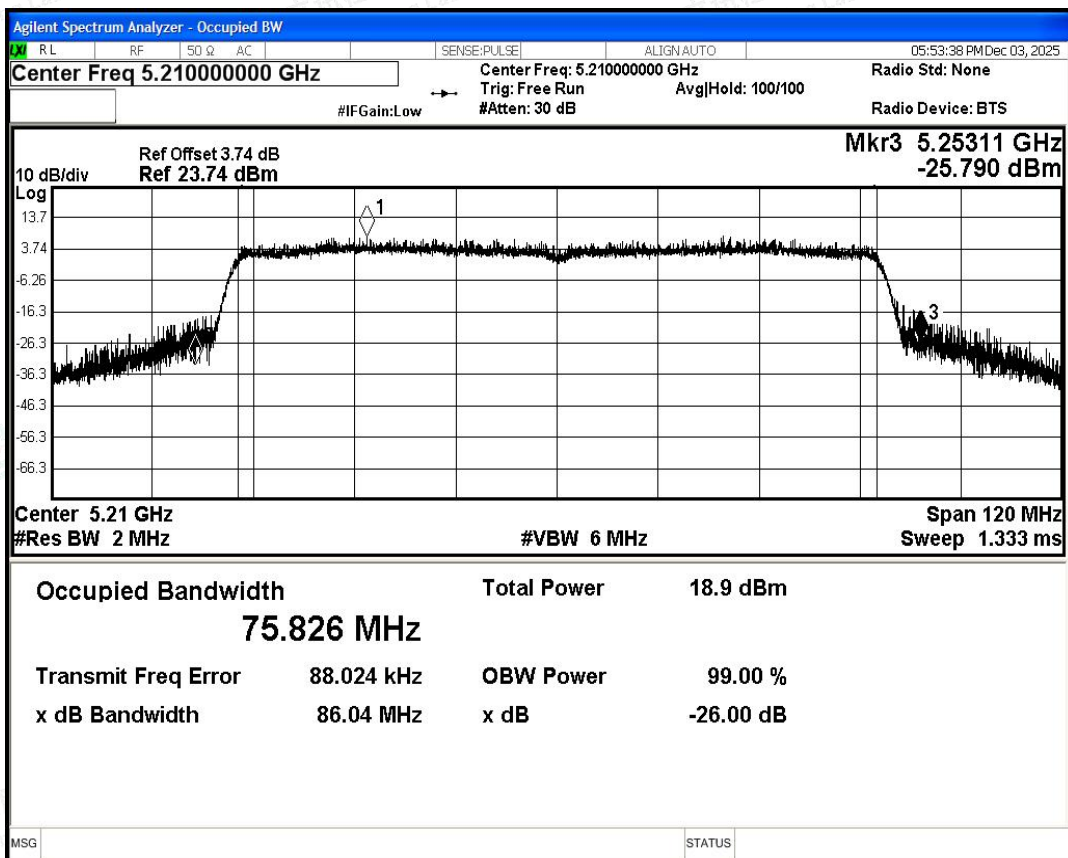
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-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	Ant1	12.85	0.1	12.95	24	Pass
NVNT	a	5200	Ant1	12.65	0.1	12.75	24	Pass
NVNT	a	5240	Ant1	12.53	0.1	12.63	24	Pass
NVNT	n20	5180	Ant1	12.29	0.12	12.41	24	Pass
NVNT	n20	5200	Ant1	11.94	0.12	12.06	24	Pass
NVNT	n20	5240	Ant1	11.8	0.12	11.92	24	Pass
NVNT	n40	5190	Ant1	11.46	0.24	11.7	24	Pass
NVNT	n40	5230	Ant1	11.73	0.24	11.97	24	Pass
NVNT	ac20	5180	Ant1	12.29	0.12	12.41	24	Pass
NVNT	ac20	5200	Ant1	12	0.12	12.12	24	Pass
NVNT	ac20	5240	Ant1	11.93	0.12	12.05	24	Pass
NVNT	ac40	5190	Ant1	11.76	0.24	12	24	Pass
NVNT	ac40	5230	Ant1	11.67	0.24	11.91	24	Pass
NVNT	ac80	5210	Ant1	10.72	0.47	11.19	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	-0.64	0.1	-0.54	11	Pass
NVNT	a	5200	Ant1	0.25	0.1	0.35	11	Pass
NVNT	a	5240	Ant1	-0.38	0.1	-0.28	11	Pass
NVNT	n20	5180	Ant1	-0.35	0.12	-0.23	11	Pass
NVNT	n20	5200	Ant1	0.03	0.12	0.15	11	Pass
NVNT	n20	5240	Ant1	-1.24	0.12	-1.12	11	Pass
NVNT	n40	5190	Ant1	-4.04	0.24	-3.8	11	Pass
NVNT	n40	5230	Ant1	-4.57	0.24	-4.33	11	Pass
NVNT	ac20	5180	Ant1	-0.66	0.12	-0.54	11	Pass
NVNT	ac20	5200	Ant1	-1.73	0.12	-1.61	11	Pass
NVNT	ac20	5240	Ant1	-1.19	0.12	-1.07	11	Pass
NVNT	ac40	5190	Ant1	-3.53	0.24	-3.29	11	Pass
NVNT	ac40	5230	Ant1	-4.29	0.24	-4.05	11	Pass
NVNT	ac80	5210	Ant1	-9.69	0.47	-9.22	11	Pass

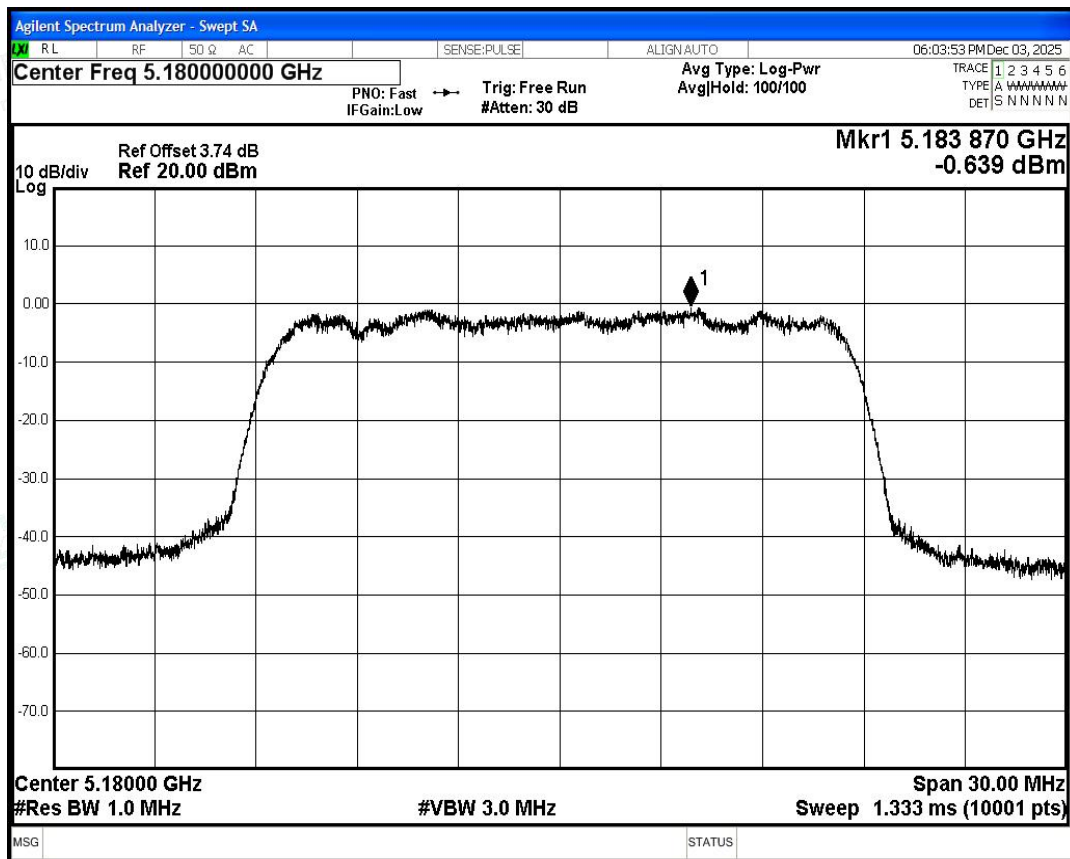


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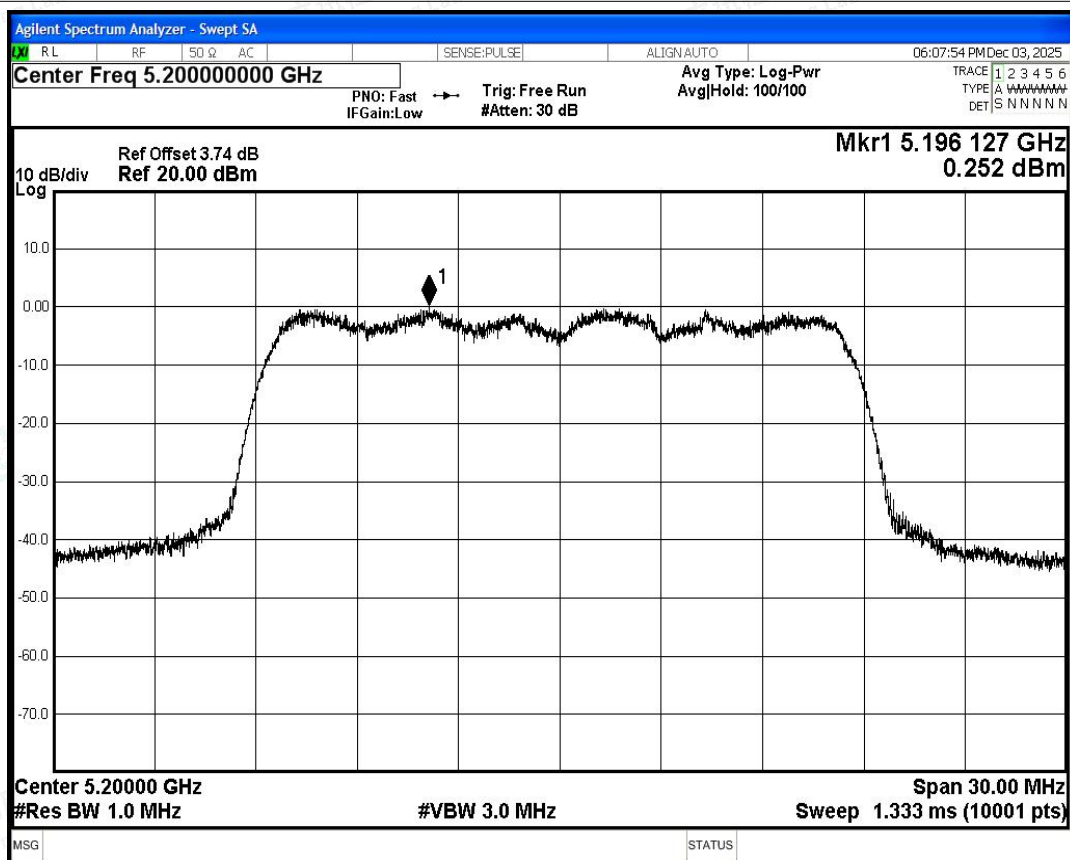
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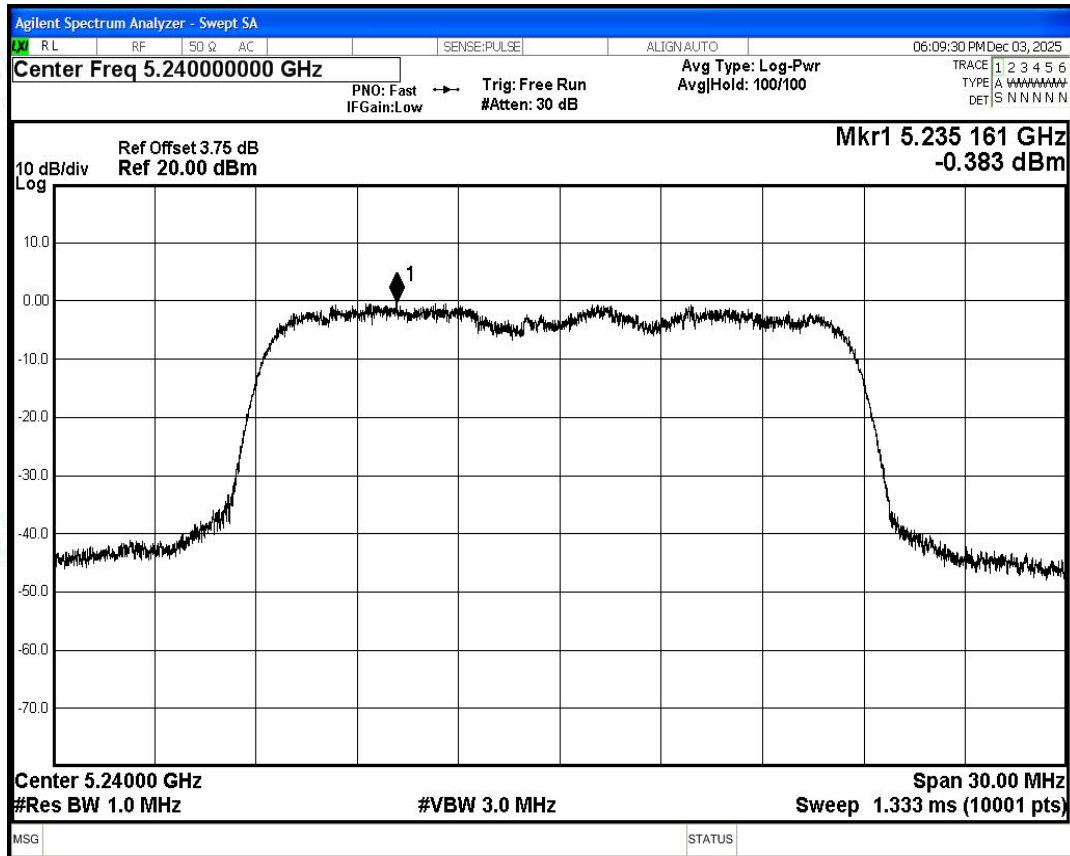


PSD NVNT a 5180MHz Ant1

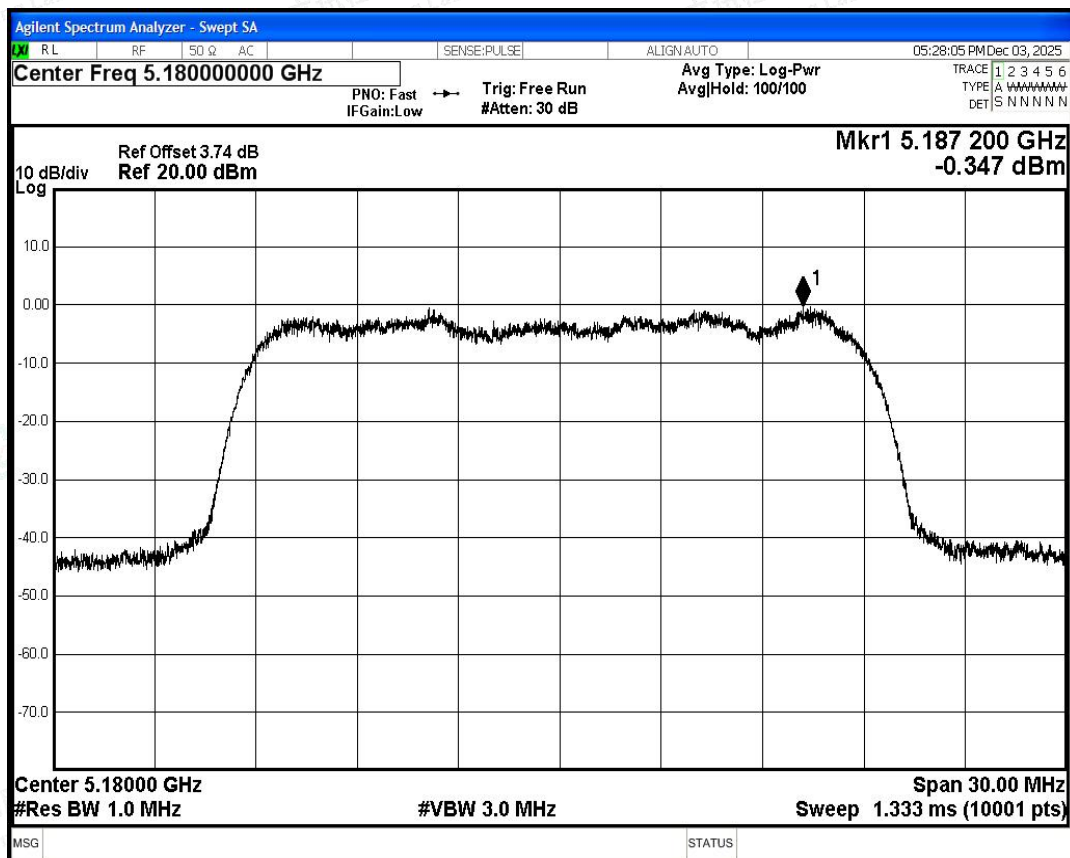


PSD NVNT a 5200MHz Ant1



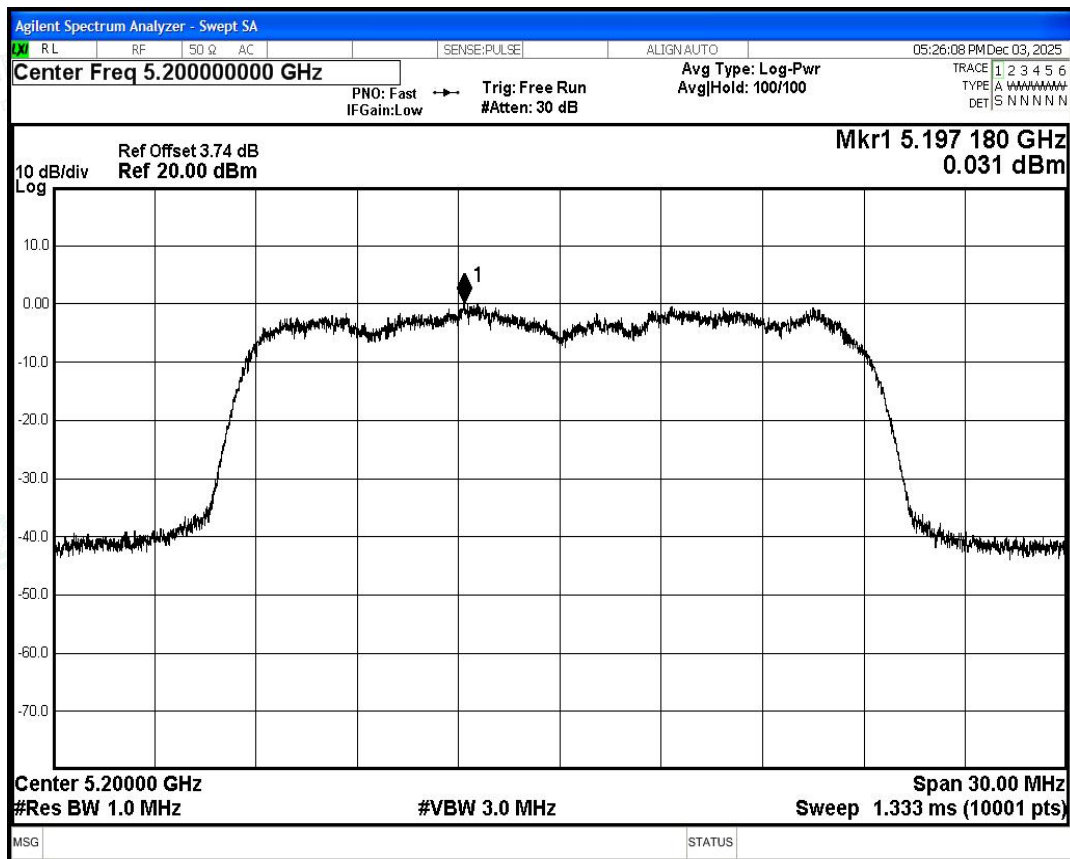


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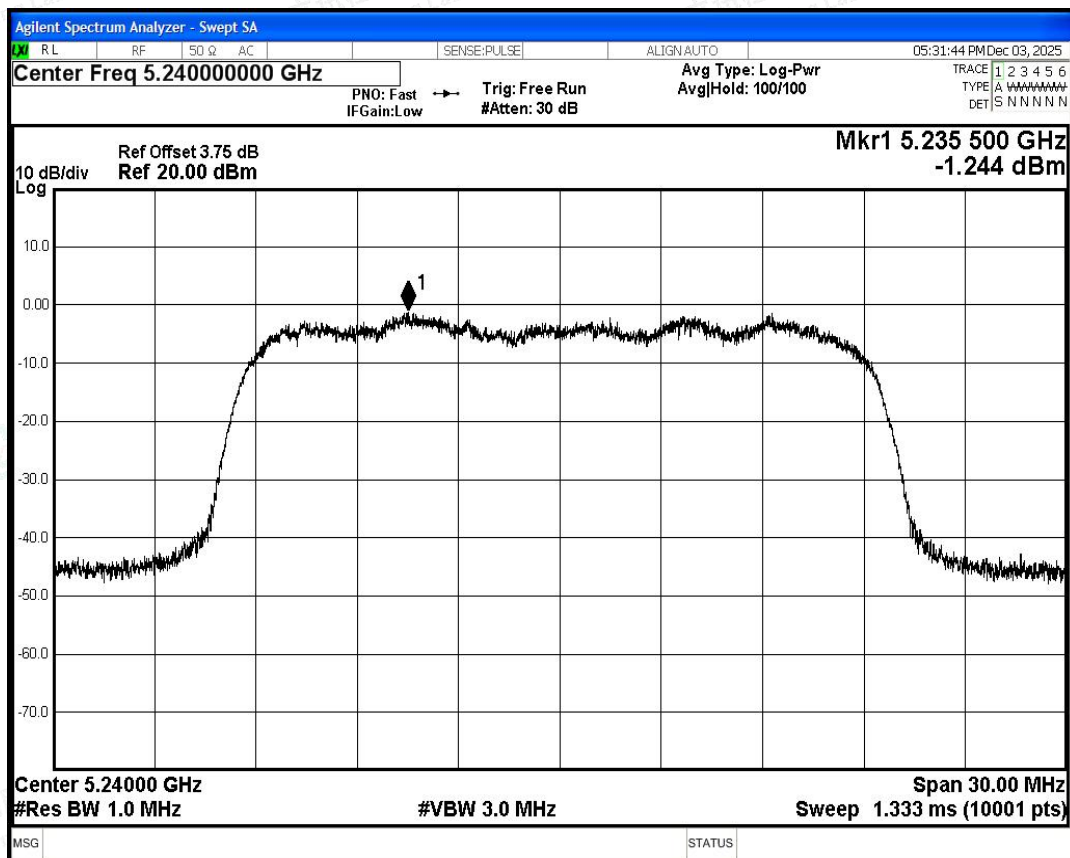


PSD NVNT n20 5180MHz Ant1





PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1

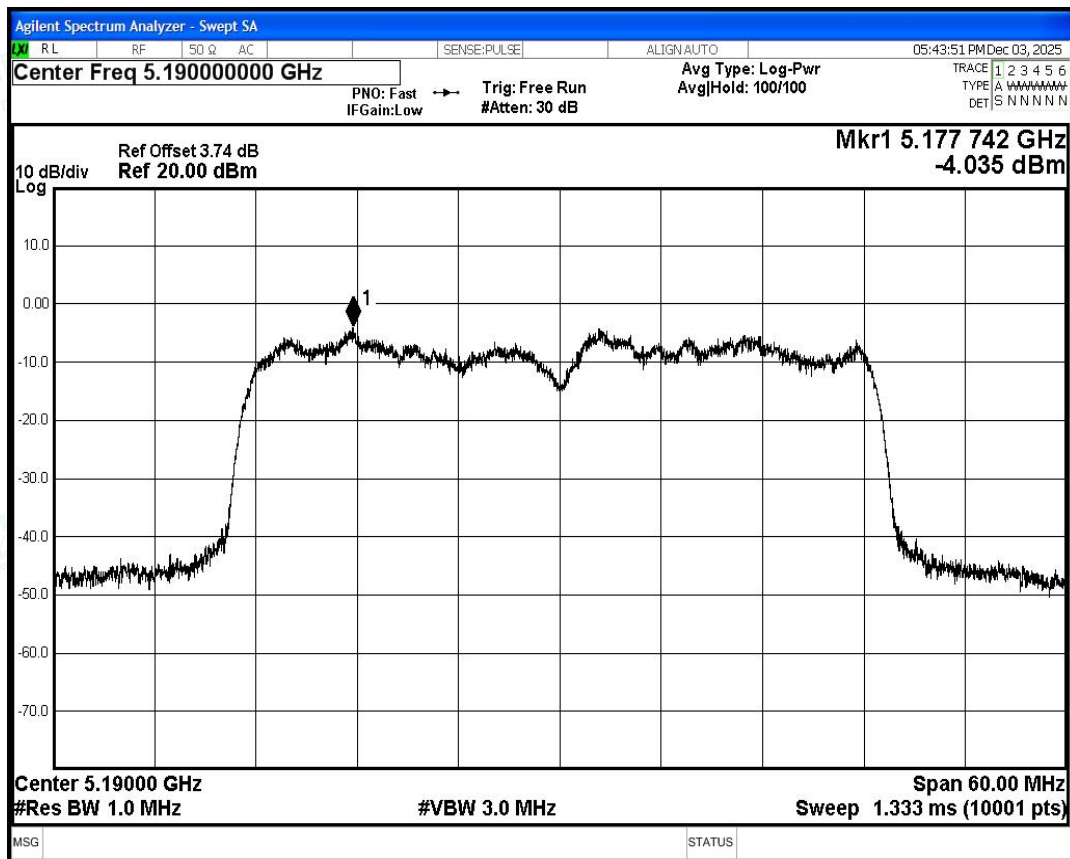


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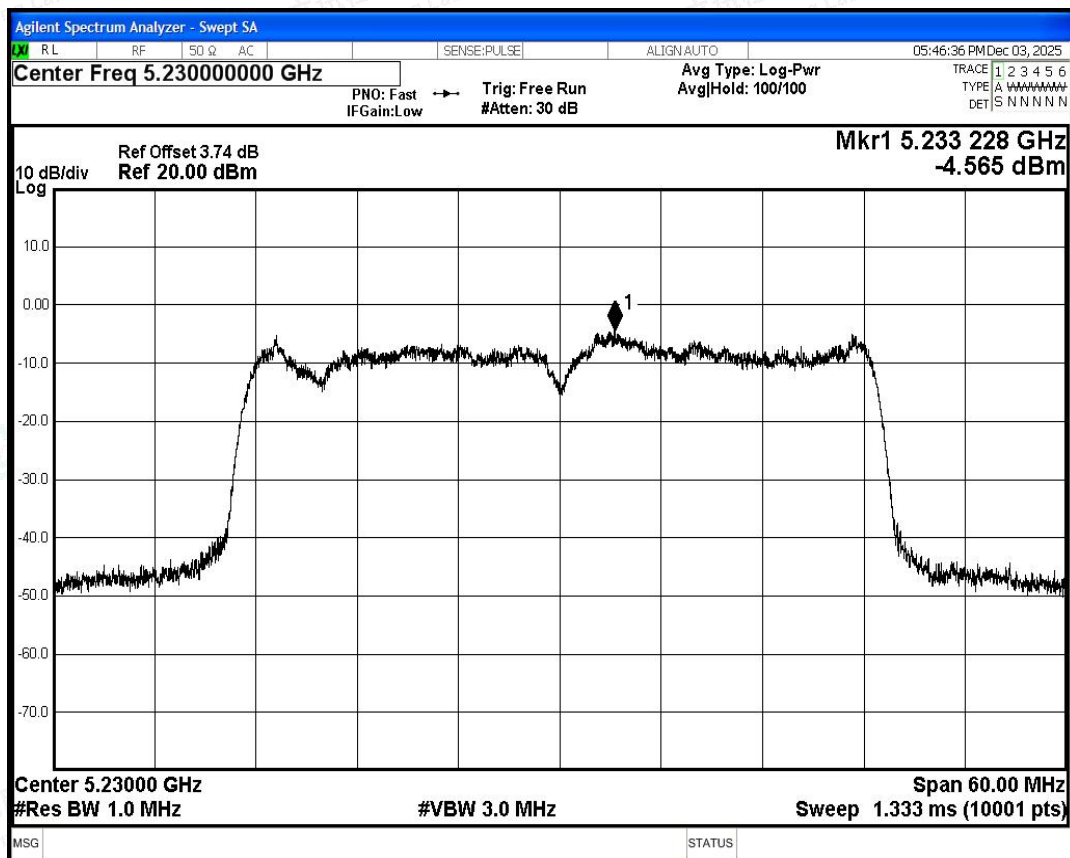
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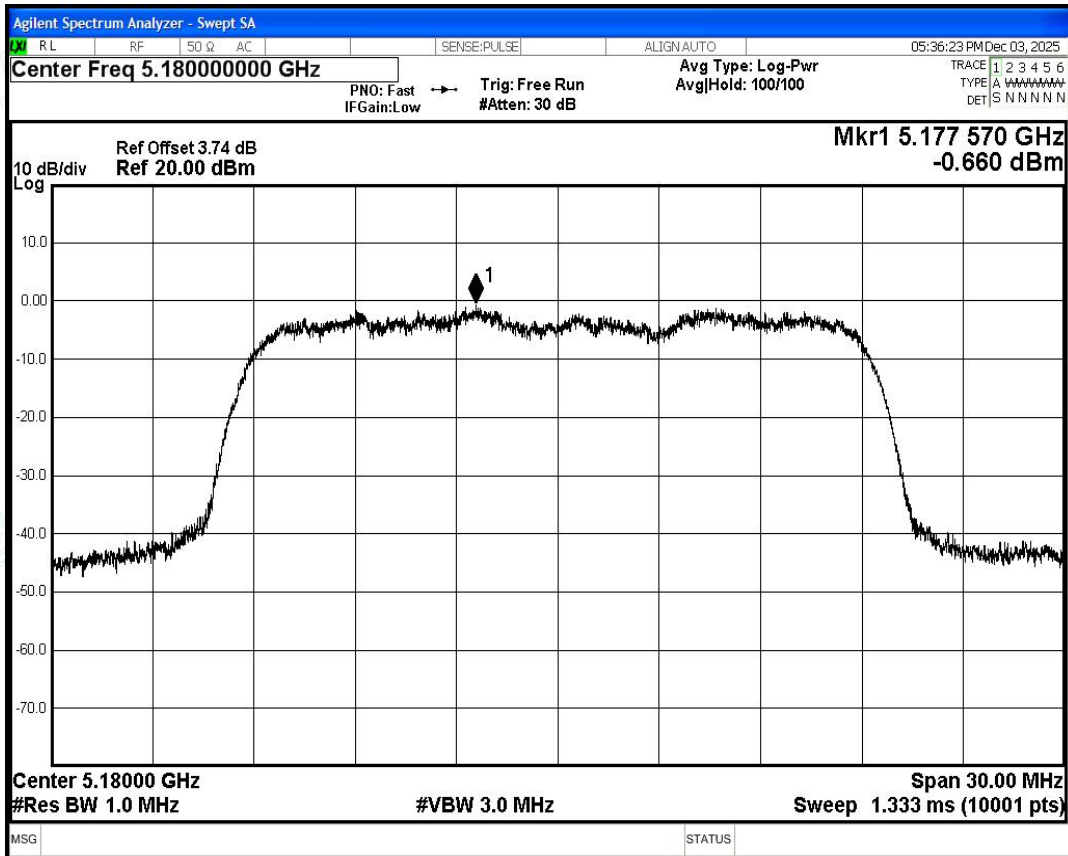


PSD NVNT n40 5190MHz Ant1

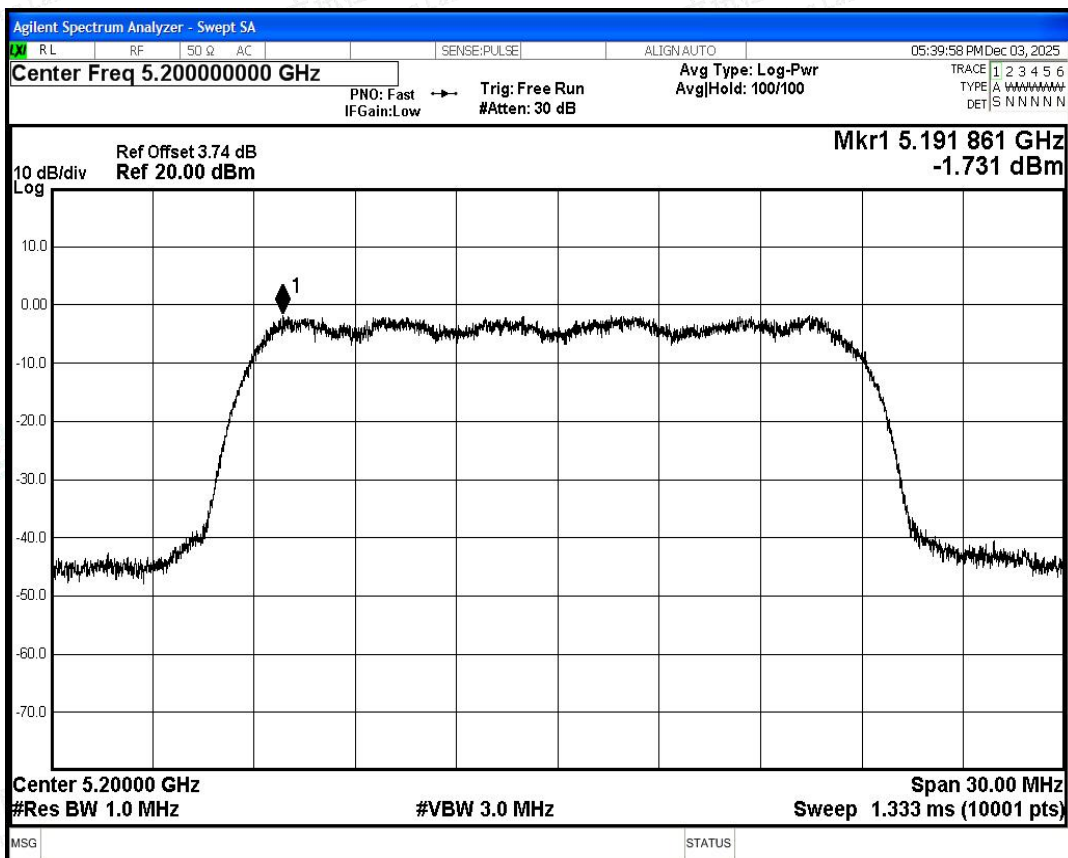


PSD NVNT n40 5230MHz Ant1





PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1

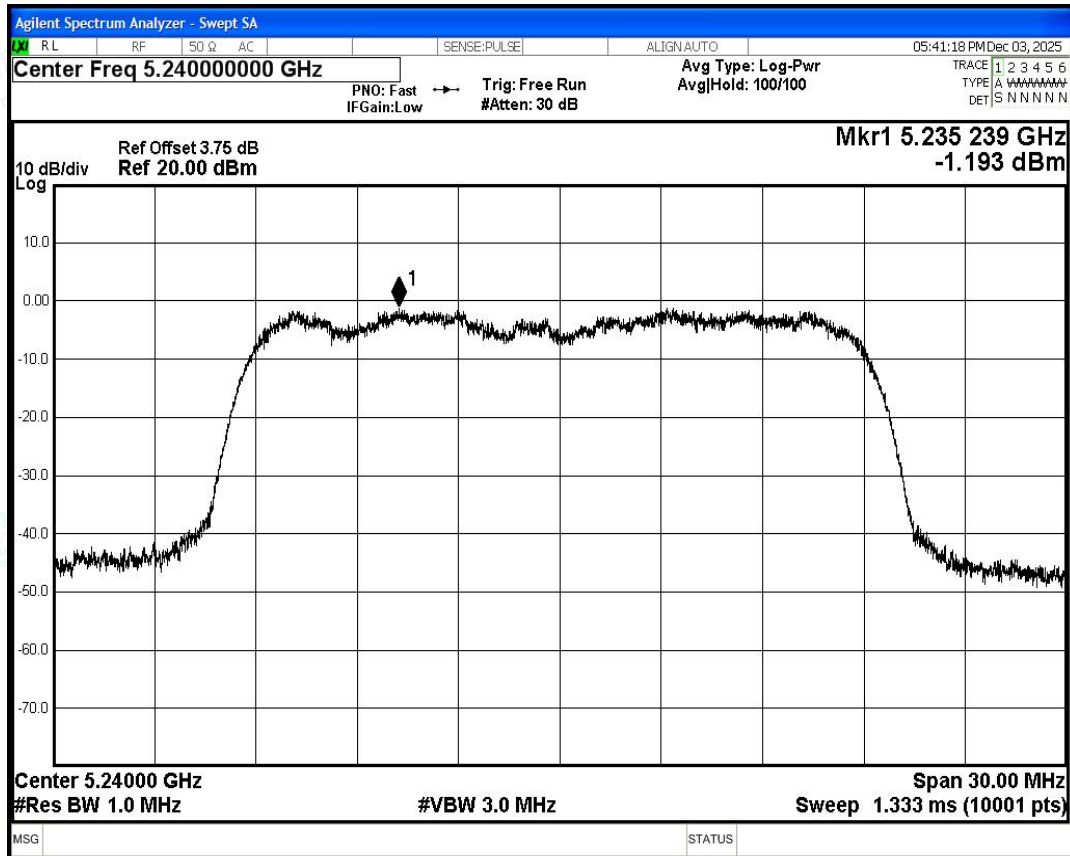


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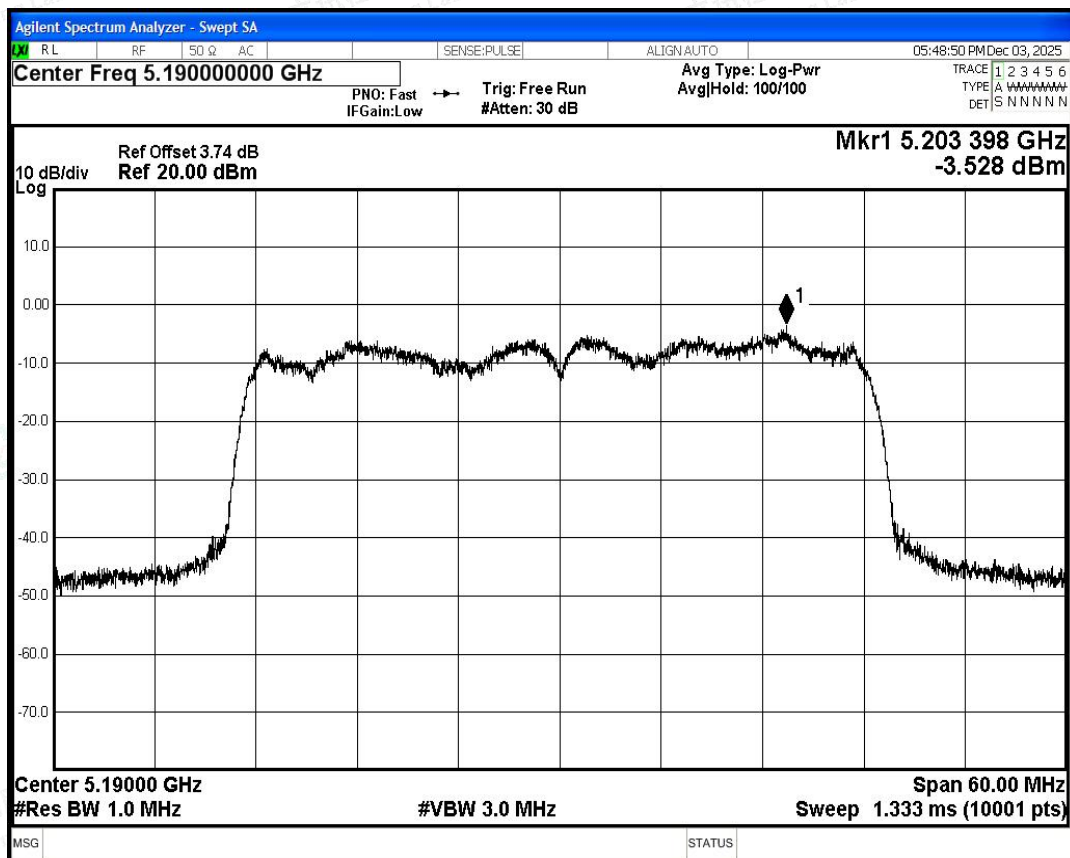
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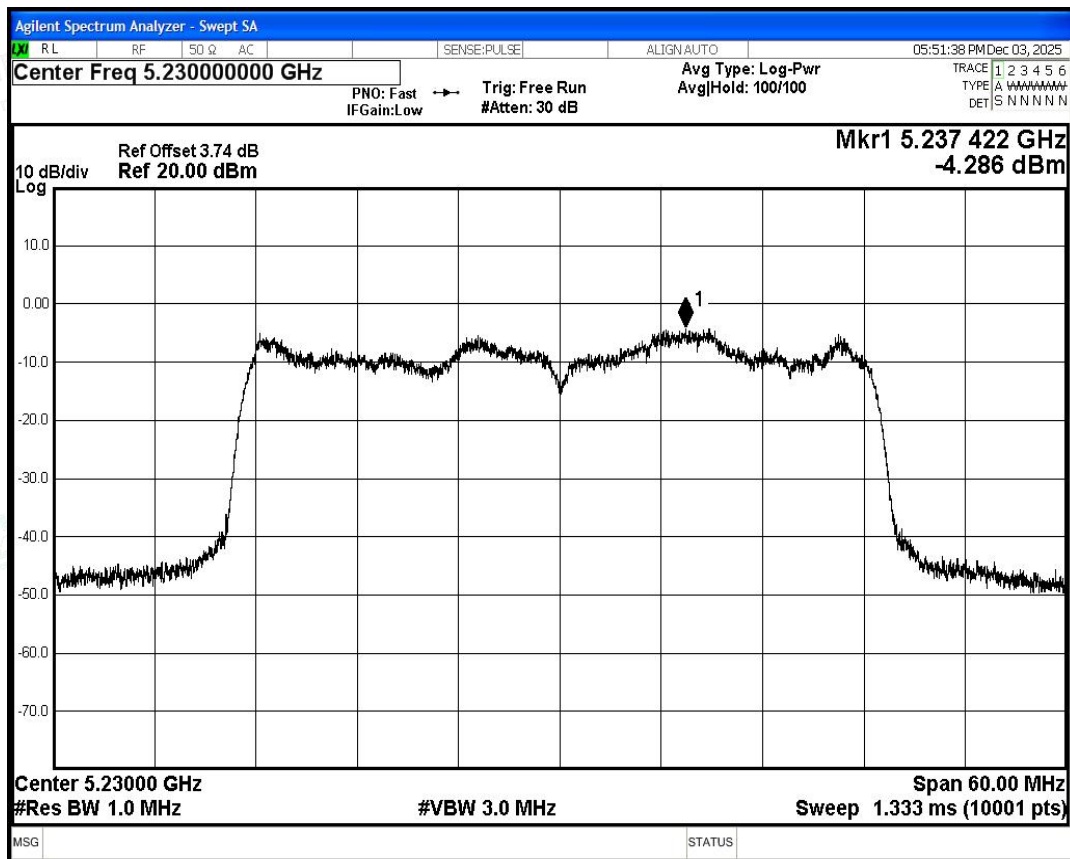


PSD NVNT ac20 5240MHz Ant1

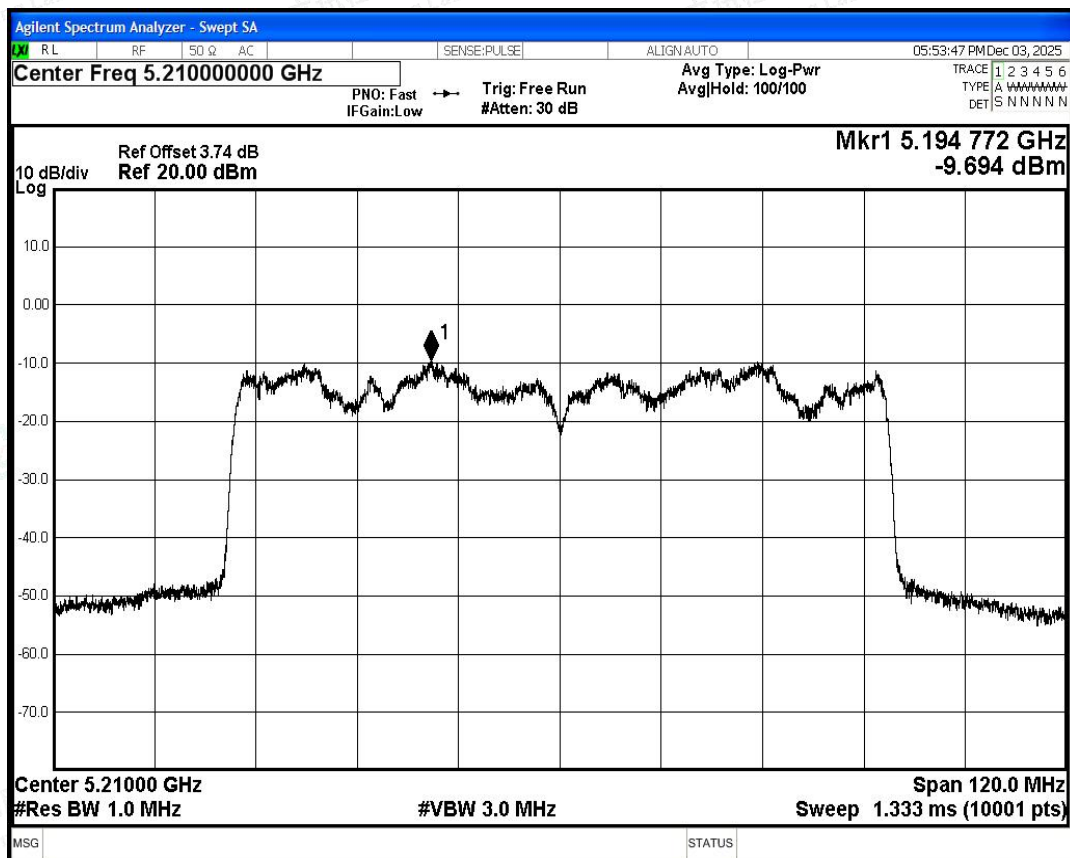


PSD NVNT ac40 5190MHz Ant1





PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz Ant1





D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-49.14	2	48.09	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.65	2	37.58	Average	54	Pass
NVNT	a	5180	Ant1	5148.9	-37.15	2	60.08	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-51.64	2	45.59	Average	54	Pass
NVNT	a	5180	Ant1	5150	-39.36	2	57.87	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-50.98	2	46.25	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.09	2	48.14	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.9	2	39.33	Average	54	Pass
NVNT	a	5240	Ant1	5367.84	-46.84	2	50.39	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350.8	-57.79	2	39.44	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.53	2	47.7	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-58.86	2	38.37	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-50.05	2	47.18	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.57	2	37.66	Average	54	Pass
NVNT	n20	5180	Ant1	5148.9	-35.9	2	61.33	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-51.16	2	46.07	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-38.46	2	58.77	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-51.04	2	46.19	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.08	2	49.15	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.93	2	39.3	Average	54	Pass
NVNT	n20	5240	Ant1	5396.16	-46.13	2	51.1	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5351.28	-57.85	2	39.38	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.19	2	49.04	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-58.83	2	38.4	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.02	2	47.21	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.4	2	37.83	Average	54	Pass
NVNT	n40	5190	Ant1	5148.97	-36.4	2	60.83	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-48.52	2	48.71	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-35.81	2	61.42	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-48.34	2	48.89	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-47.79	2	49.44	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-58.03	2	39.2	Average	54	Pass
NVNT	n40	5230	Ant1	5360.91	-46.42	2	50.81	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5351.73	-57.86	2	39.37	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.86	2	47.37	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.56	2	38.67	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-51.09	2	46.14	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-59.74	2	37.49	Average	54	Pass



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NVNT	ac20	5180	Ant1	5149.6	-37.64	2	59.59	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-51.54	2	45.69	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-35.32	2	61.91	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-51.09	2	46.14	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-46.6	2	50.63	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.88	2	39.35	Average	54	Pass
NVNT	ac20	5240	Ant1	5379.6	-46.24	2	50.99	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5351.76	-57.86	2	39.37	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-48.73	2	48.5	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-58.81	2	38.42	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.55	2	46.68	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-59.39	2	37.84	Average	54	Pass
NVNT	ac40	5190	Ant1	5147.51	-37.08	2	60.15	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-49.08	2	48.15	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-36.58	2	60.65	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-48.82	2	48.41	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-47.41	2	49.82	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-58.11	2	39.12	Average	54	Pass
NVNT	ac40	5230	Ant1	5386.83	-46.17	2	51.06	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350.65	-57.81	2	39.42	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.32	2	47.91	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.54	2	38.69	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-46.74	2	50.49	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-57.08	2	40.15	Average	54	Pass
NVNT	ac80	5210	Ant1	5351.43	-46.14	2	51.09	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5351.1	-56.96	2	40.27	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-48.41	2	48.82	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-58.27	2	38.96	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.31	2	47.92	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-59.13	2	38.1	Average	54	Pass
NVNT	ac80	5210	Ant1	5126.47	-39.46	2	57.77	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-49.34	2	47.89	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-40.55	2	56.68	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-49.32	2	47.91	Average	54	Pass

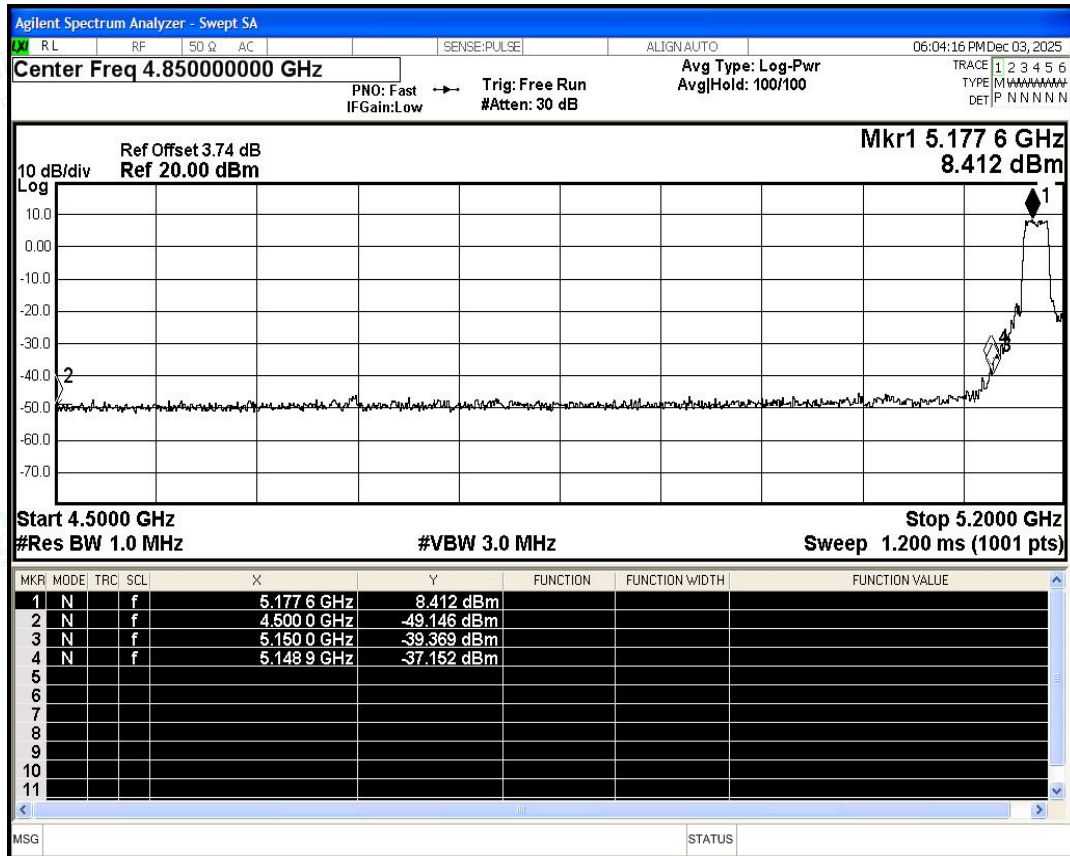


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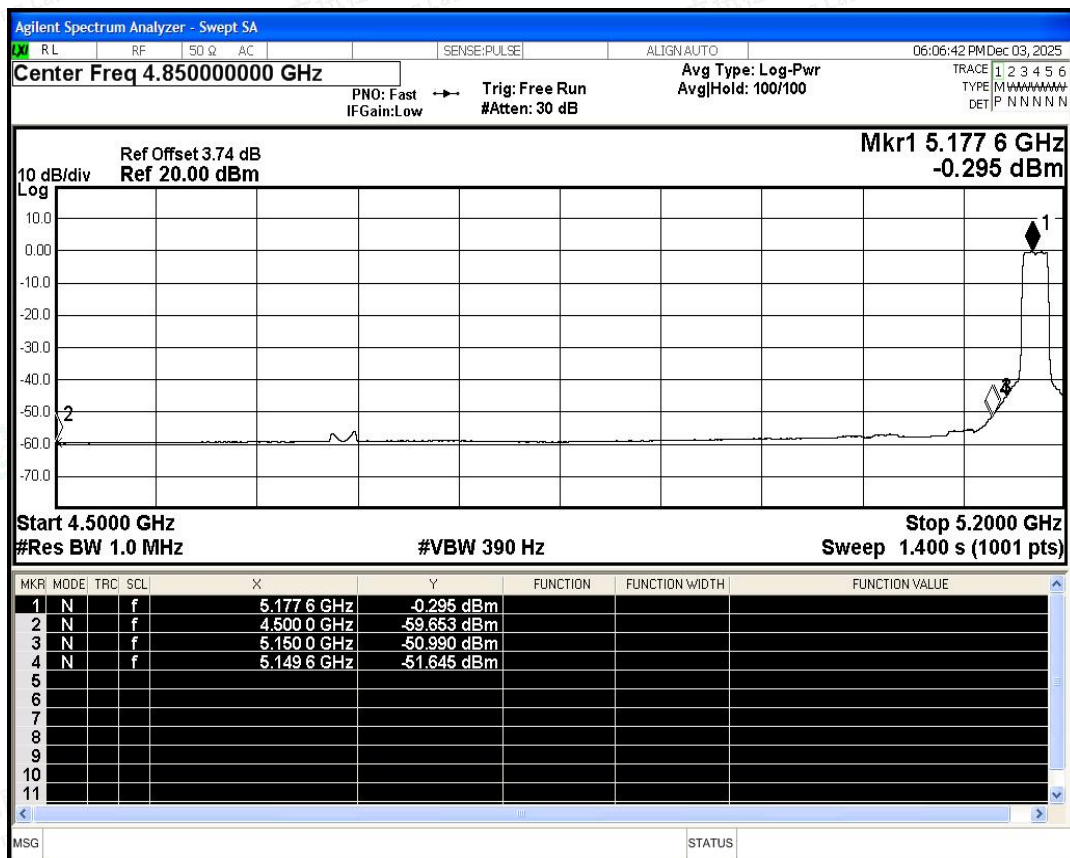
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average

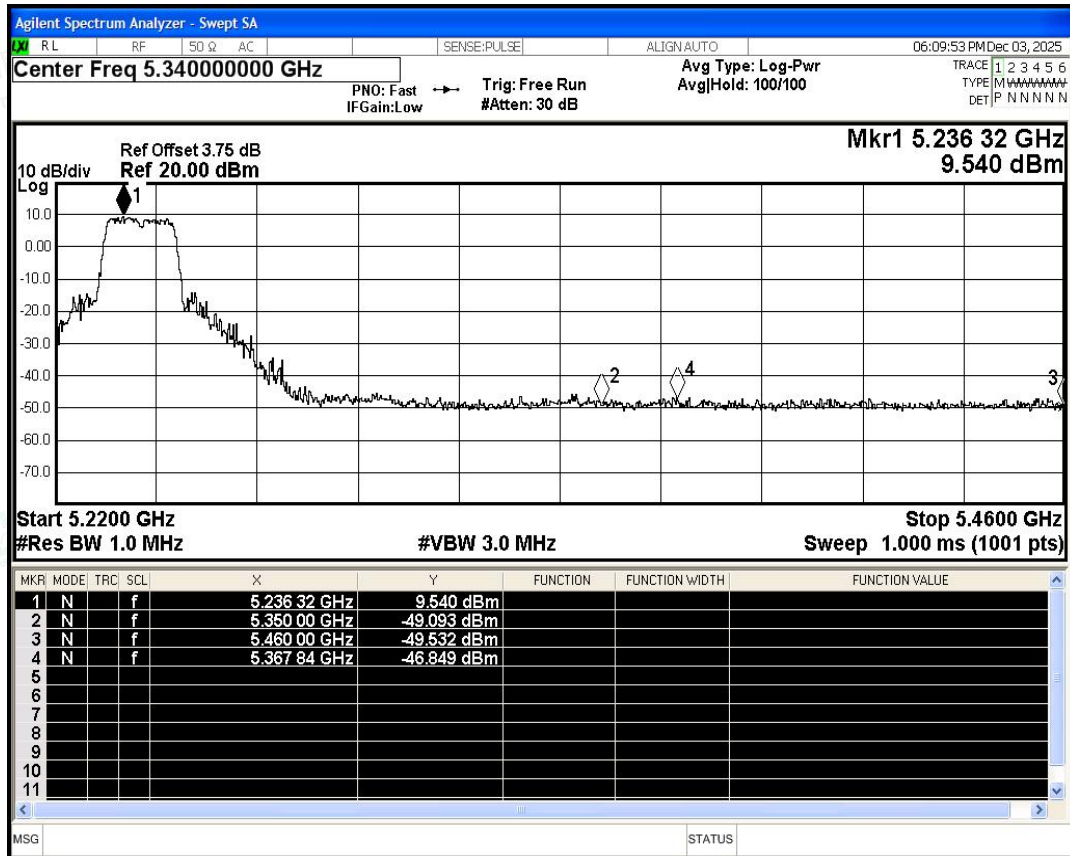


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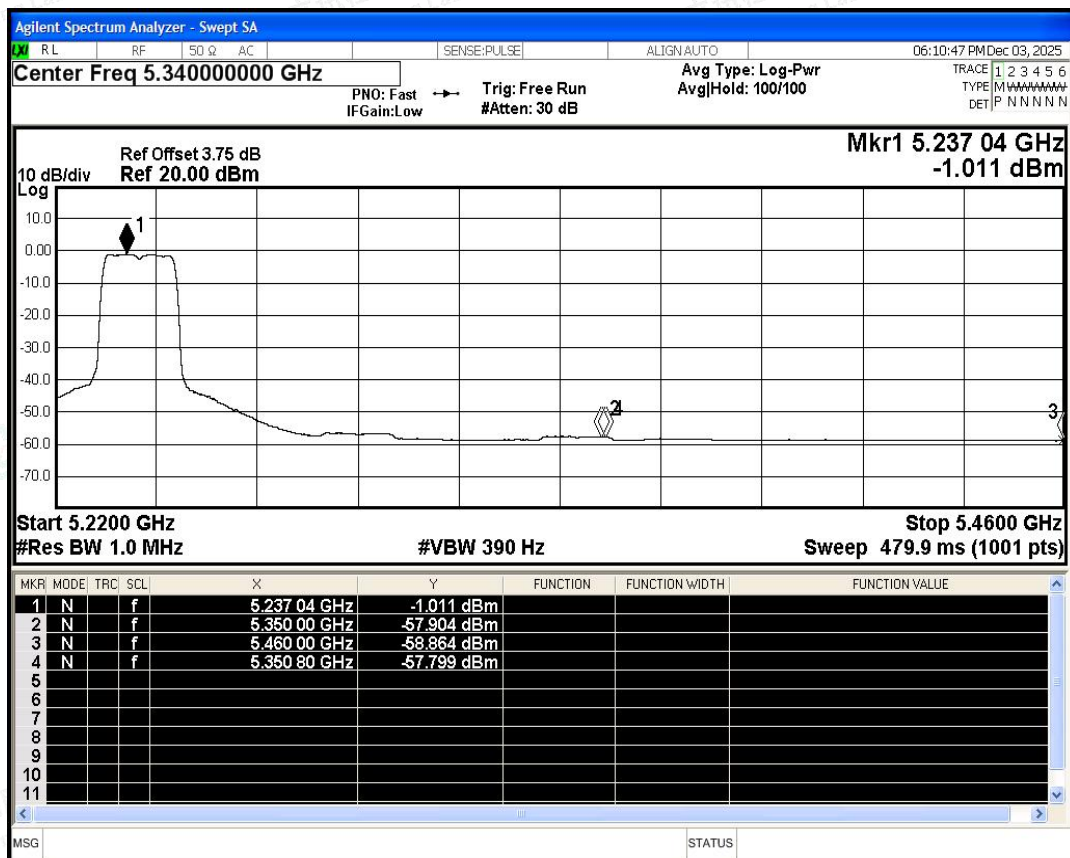
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average

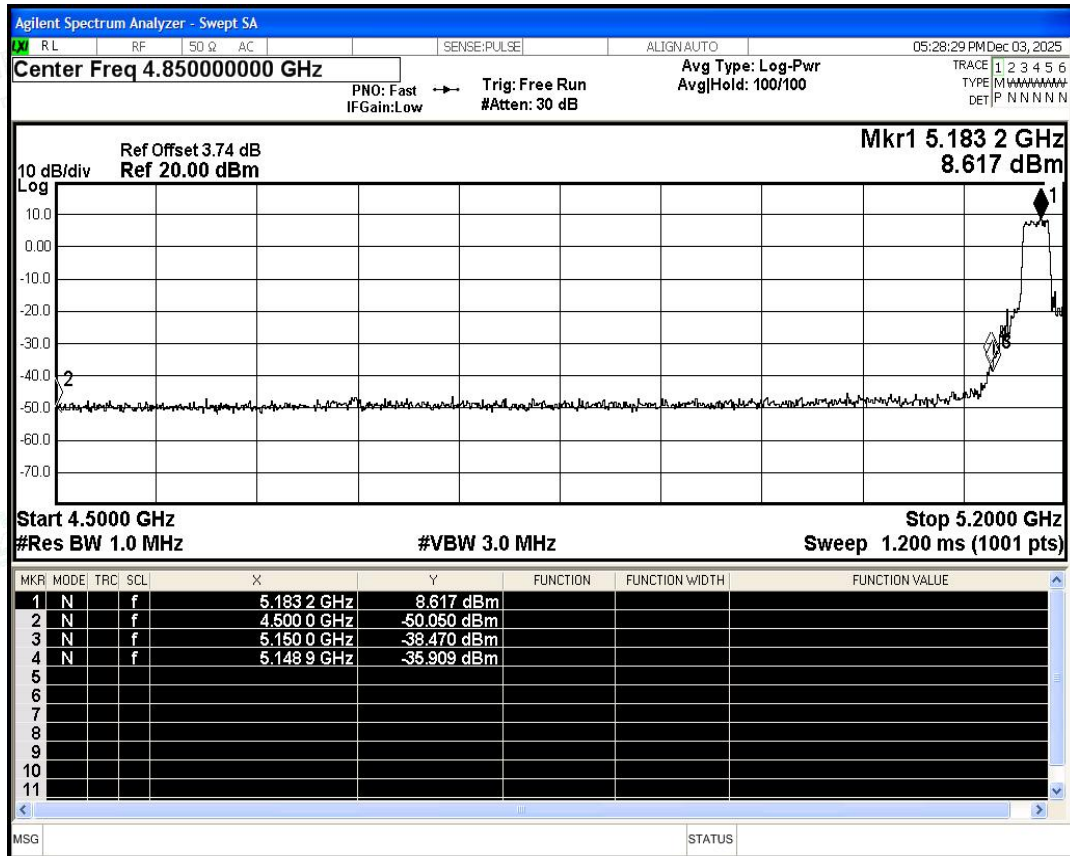


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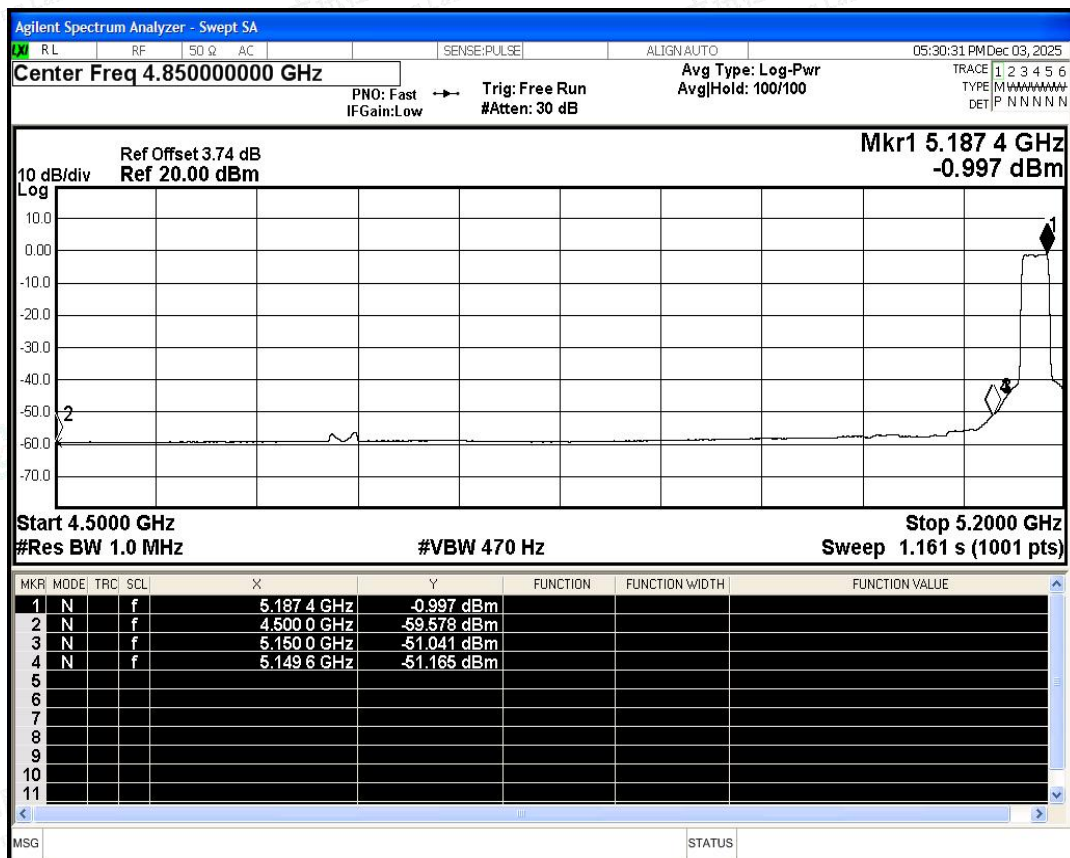
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Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average

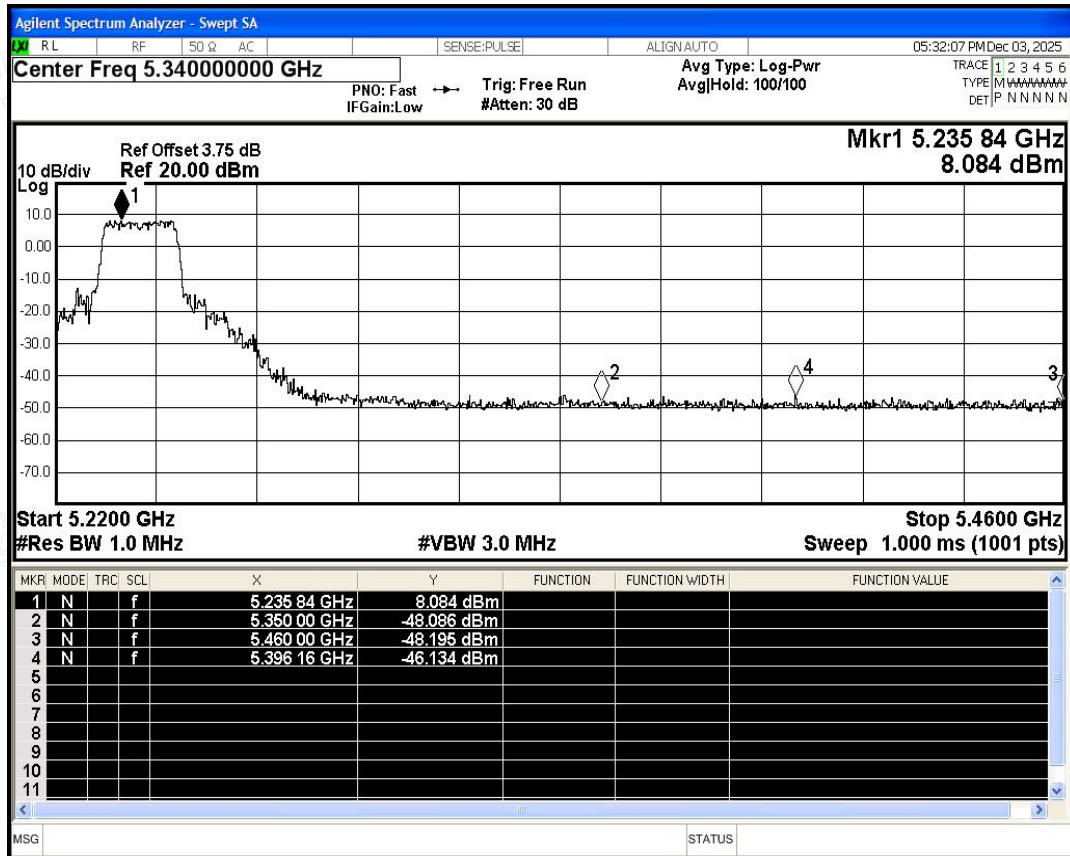


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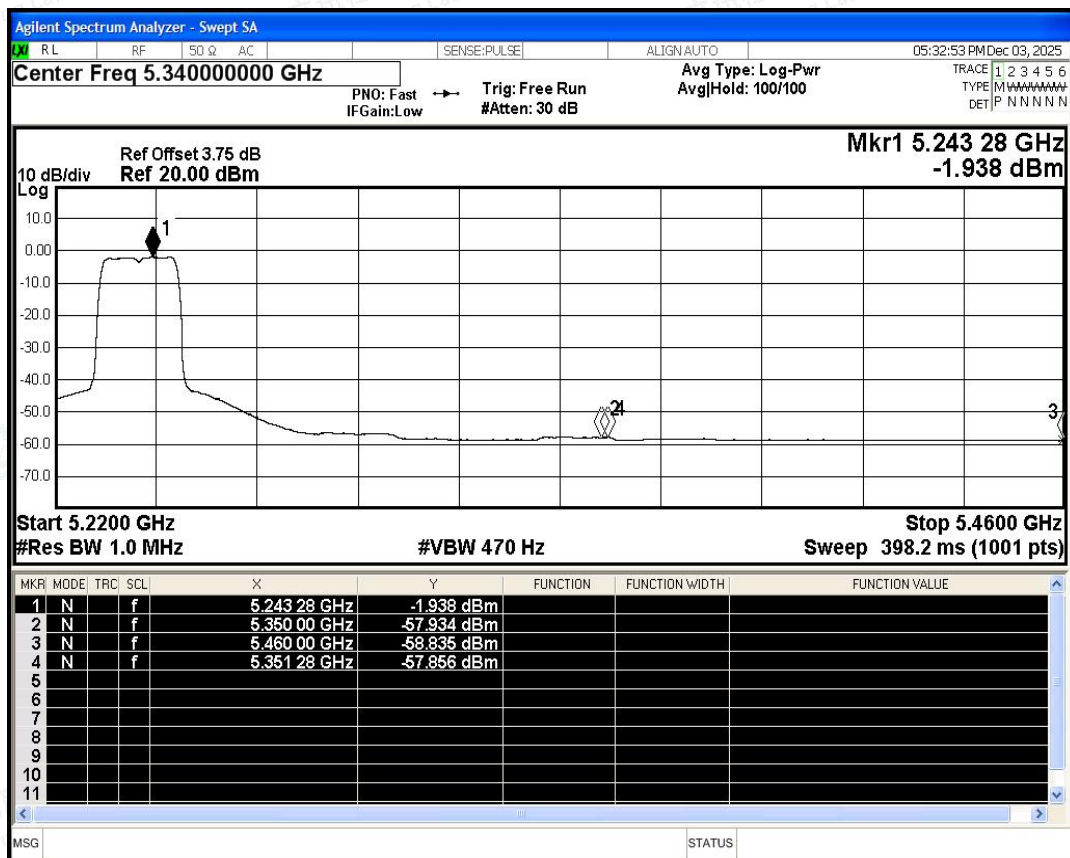
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average

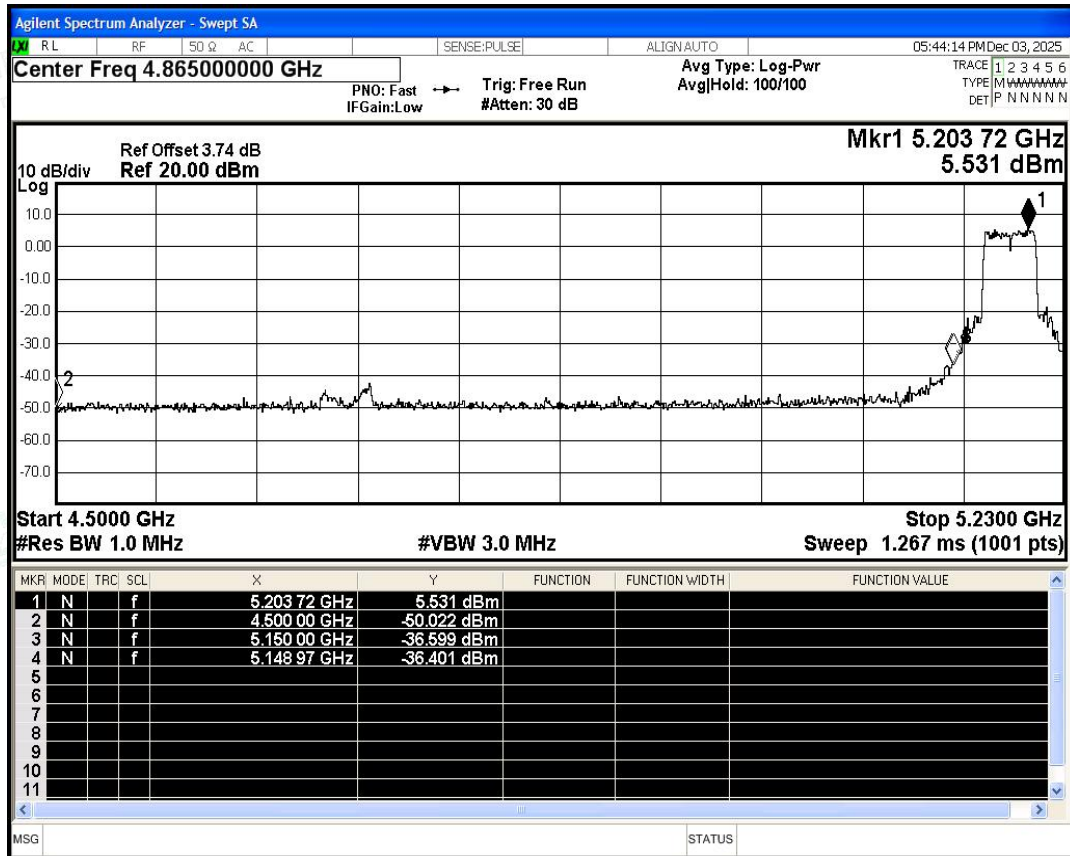


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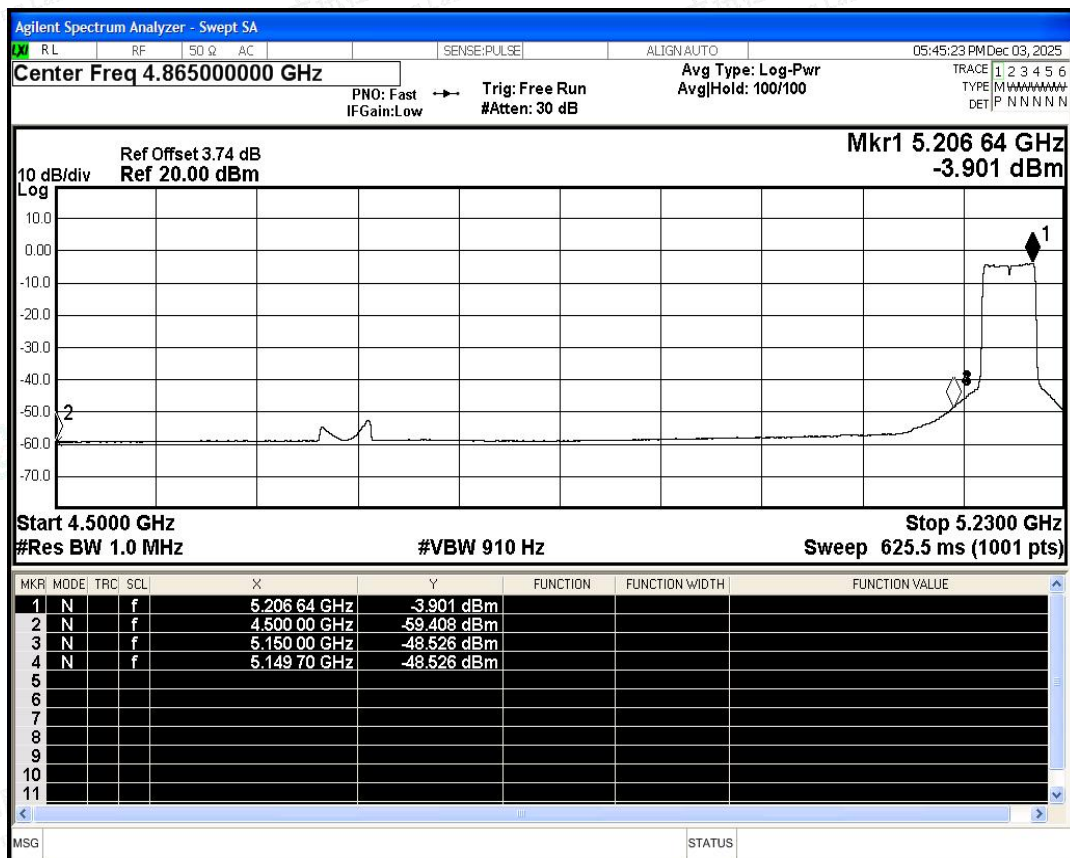
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Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average

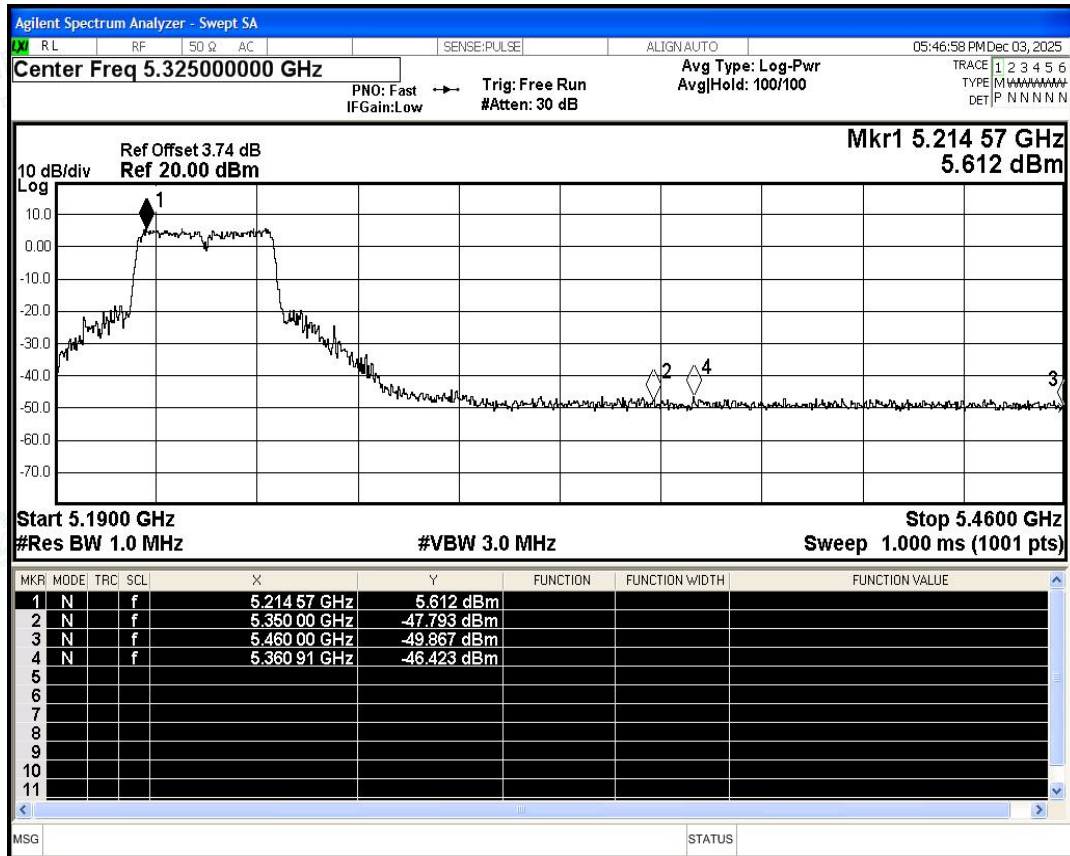


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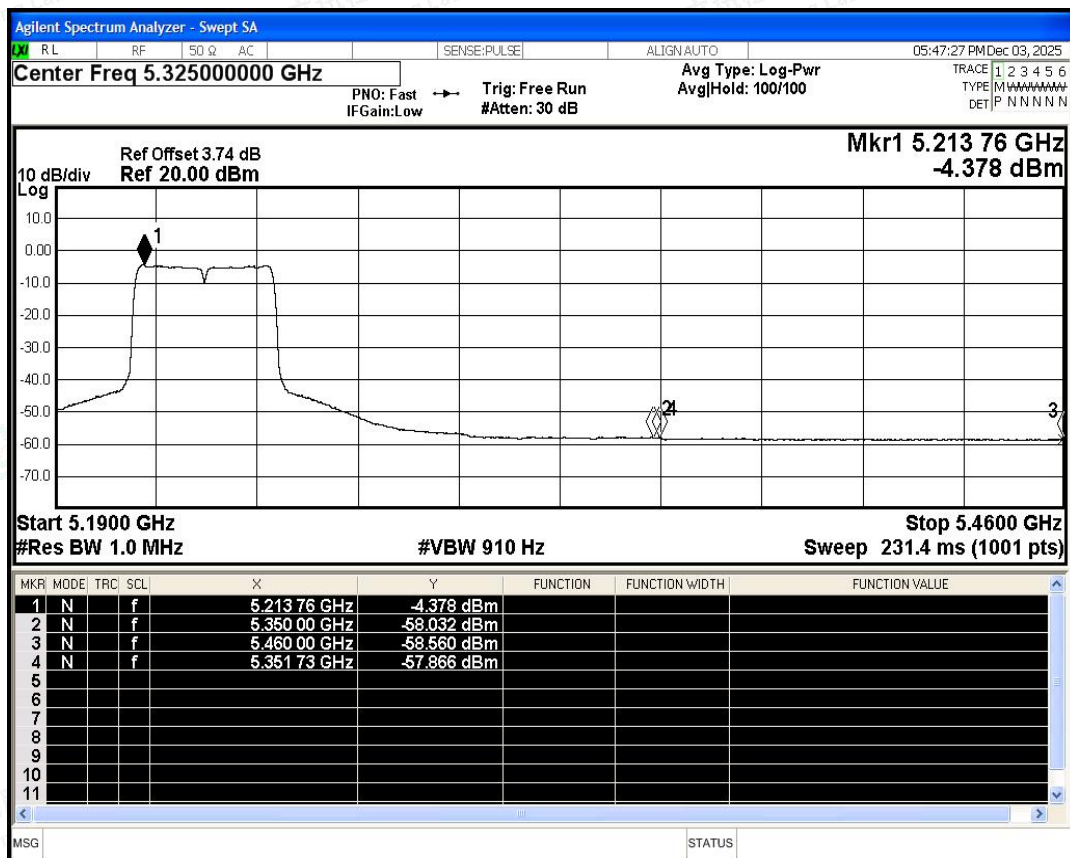
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average

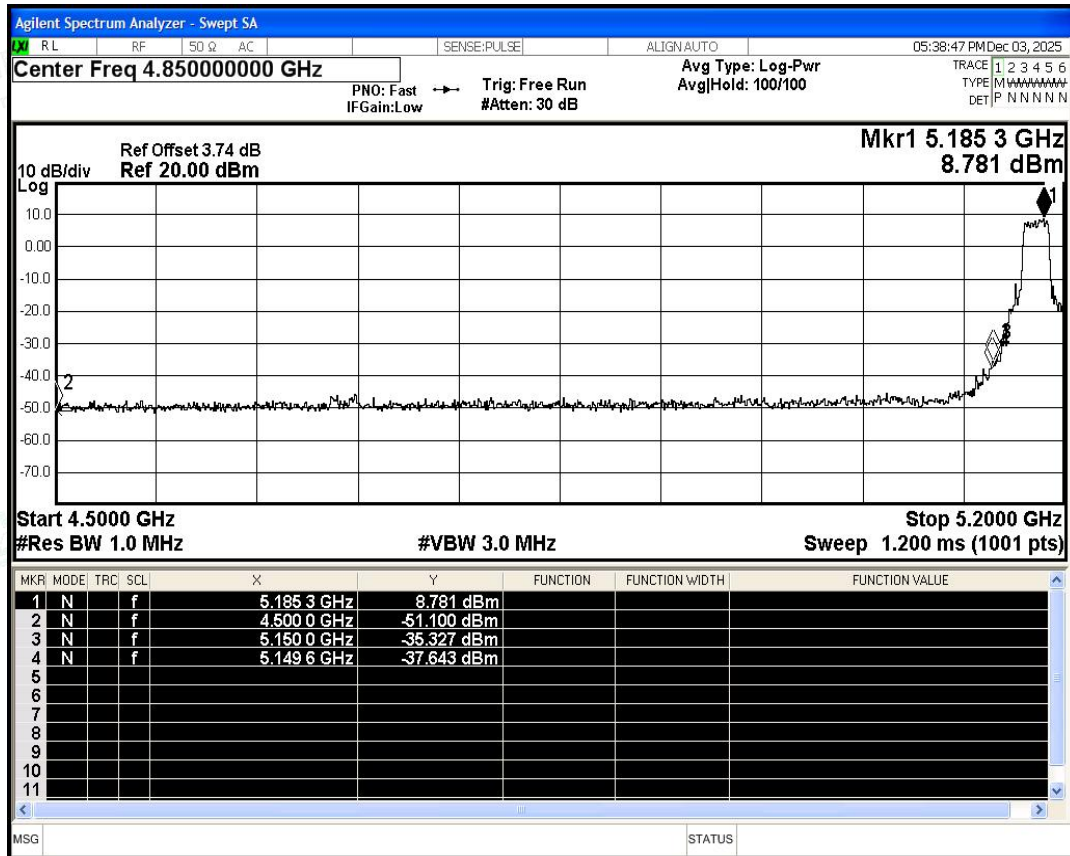


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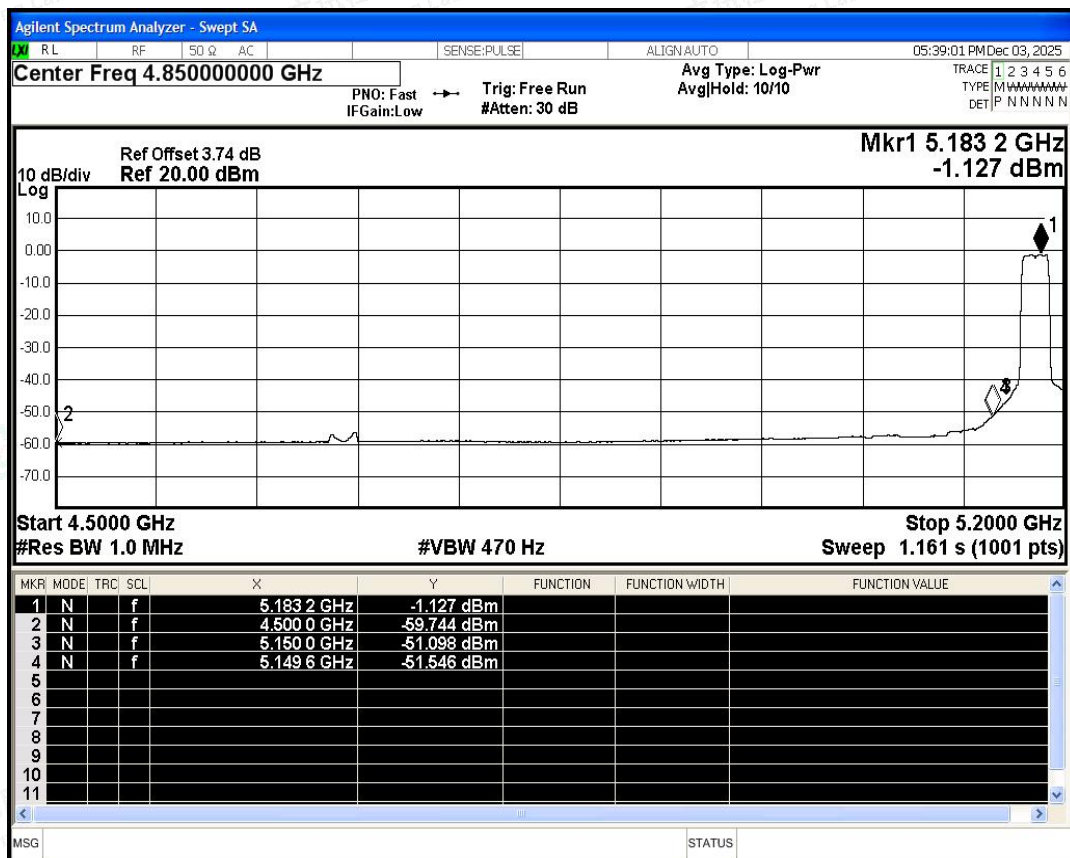
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average

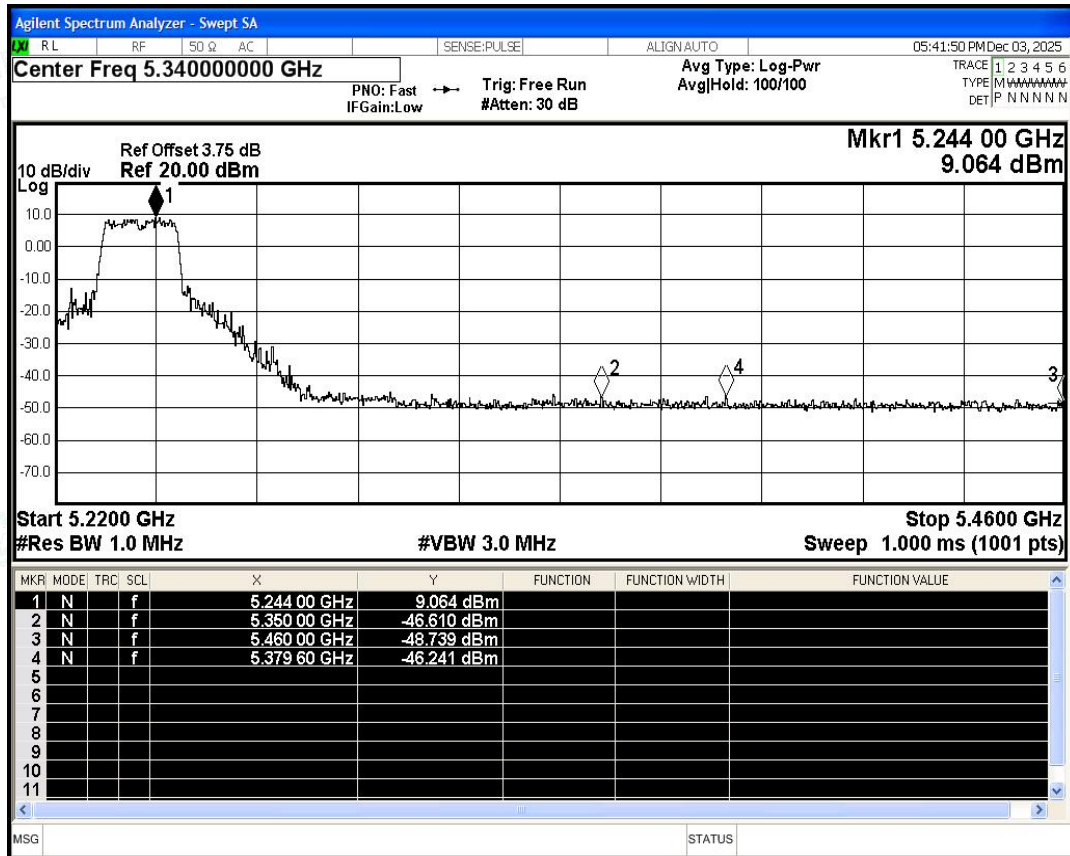


Shenzhen LCS Compliance Testing Laboratory Ltd.

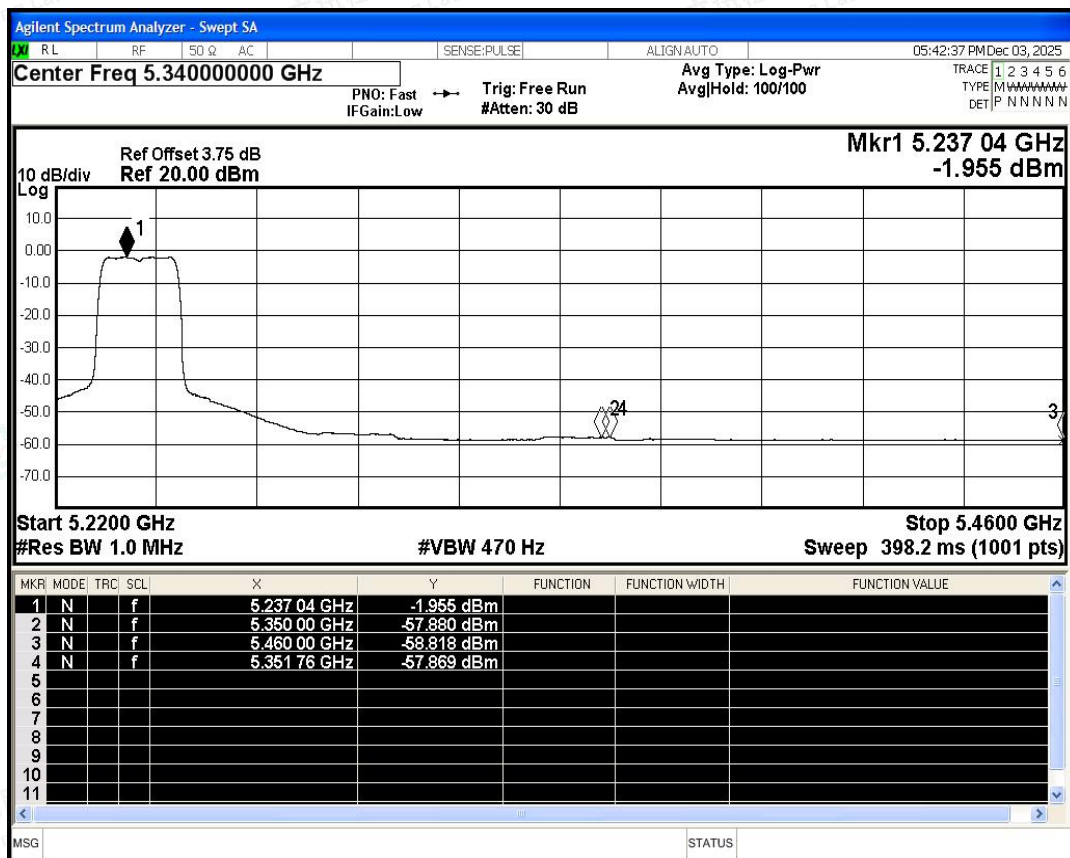
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Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average



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