



Appendix C

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Smart Pet Feeder

Test Model: ACF100W

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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C.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	22.876	---	Pass
NVNT	a	5200	Ant1	26.369	---	Pass
NVNT	a	5240	Ant1	24.382	---	Pass
NVNT	n20	5180	Ant1	26.984	---	Pass
NVNT	n20	5200	Ant1	24.058	---	Pass
NVNT	n20	5240	Ant1	23.104	---	Pass
NVNT	n40	5190	Ant1	54.749	---	Pass
NVNT	n40	5230	Ant1	53.018	---	Pass

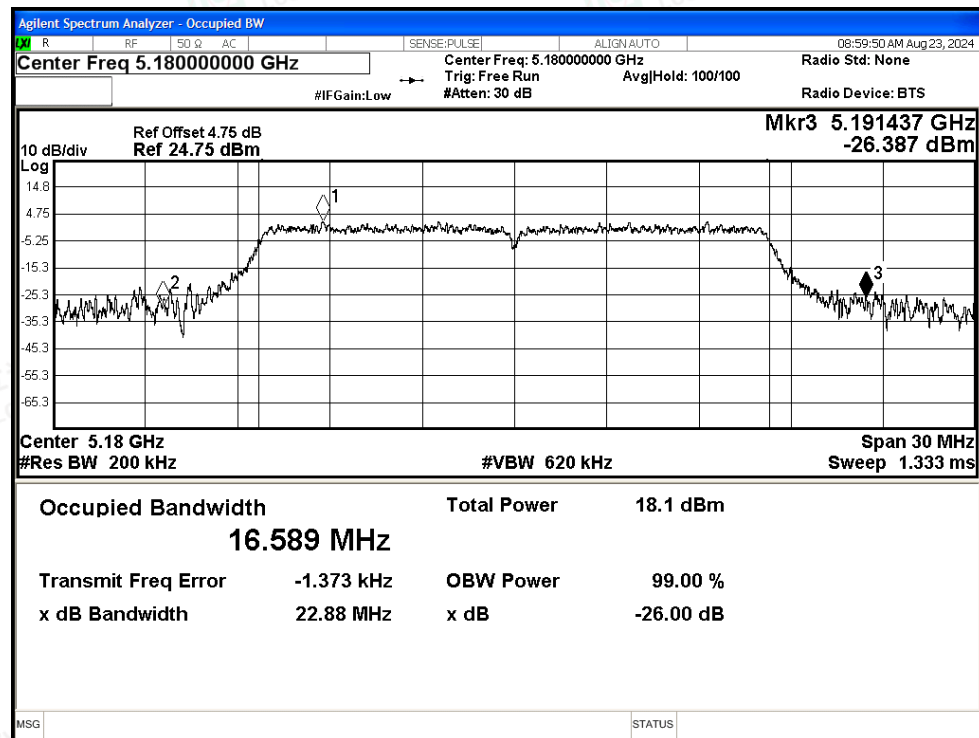


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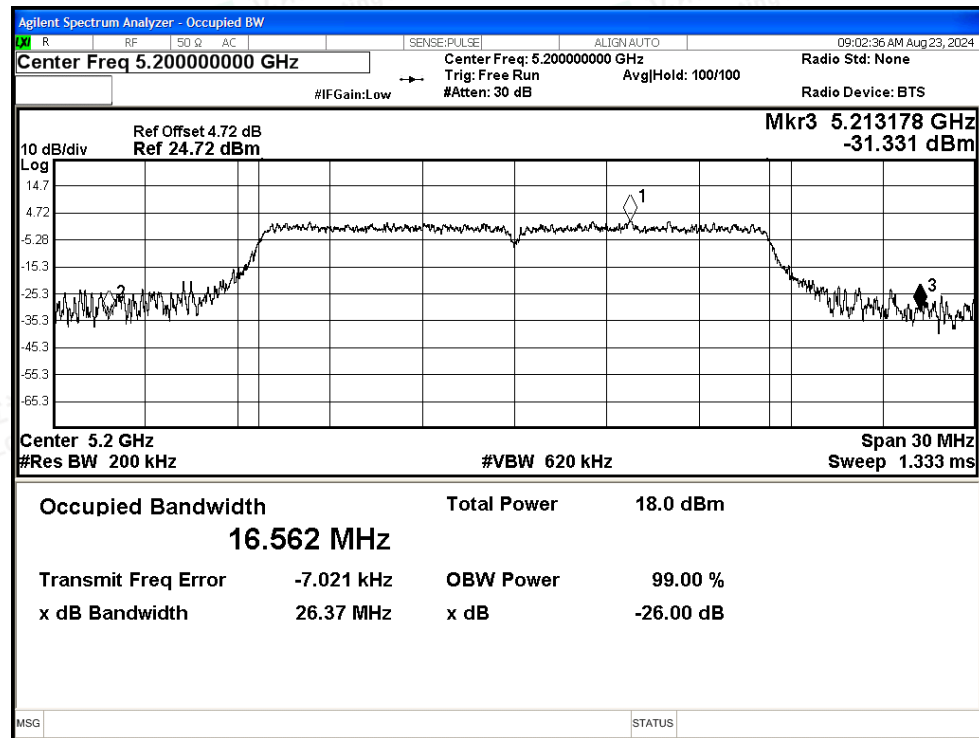


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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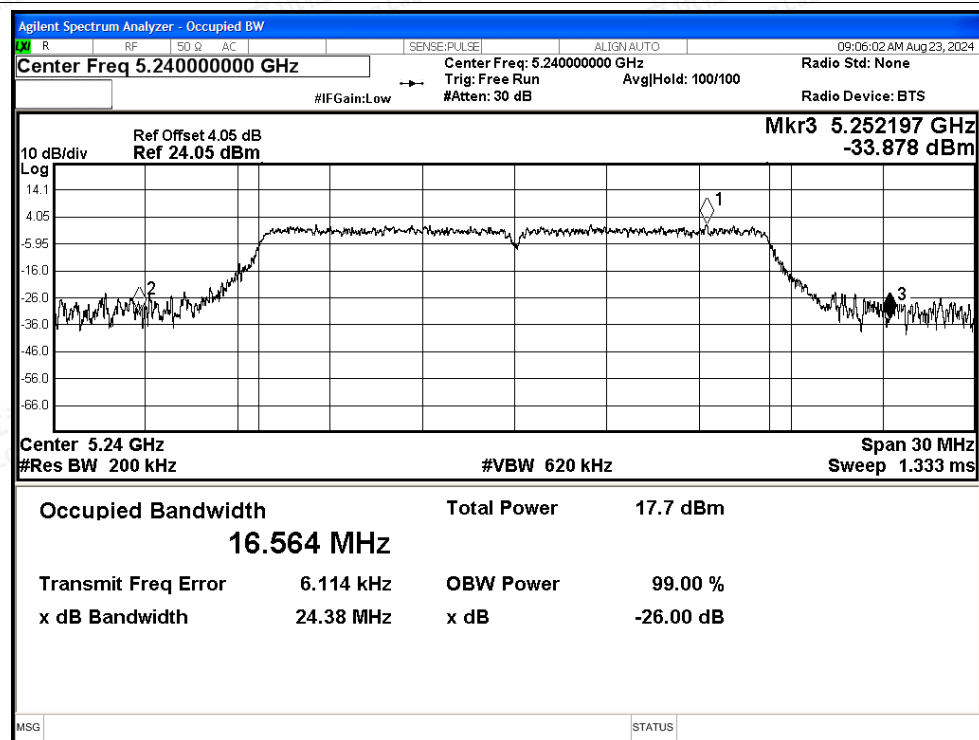
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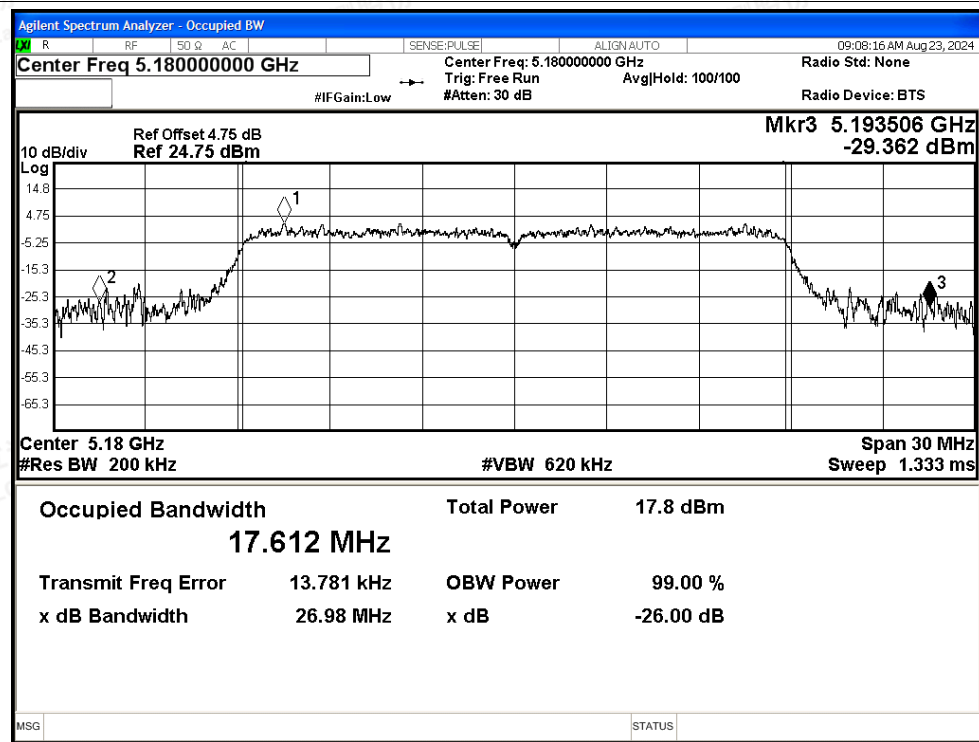
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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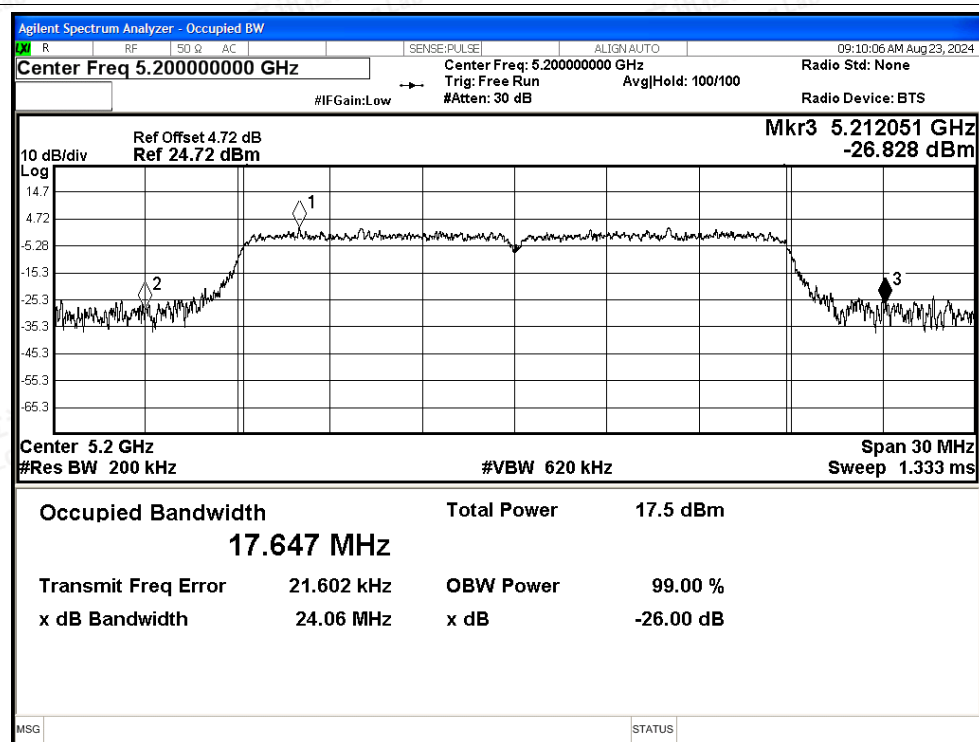
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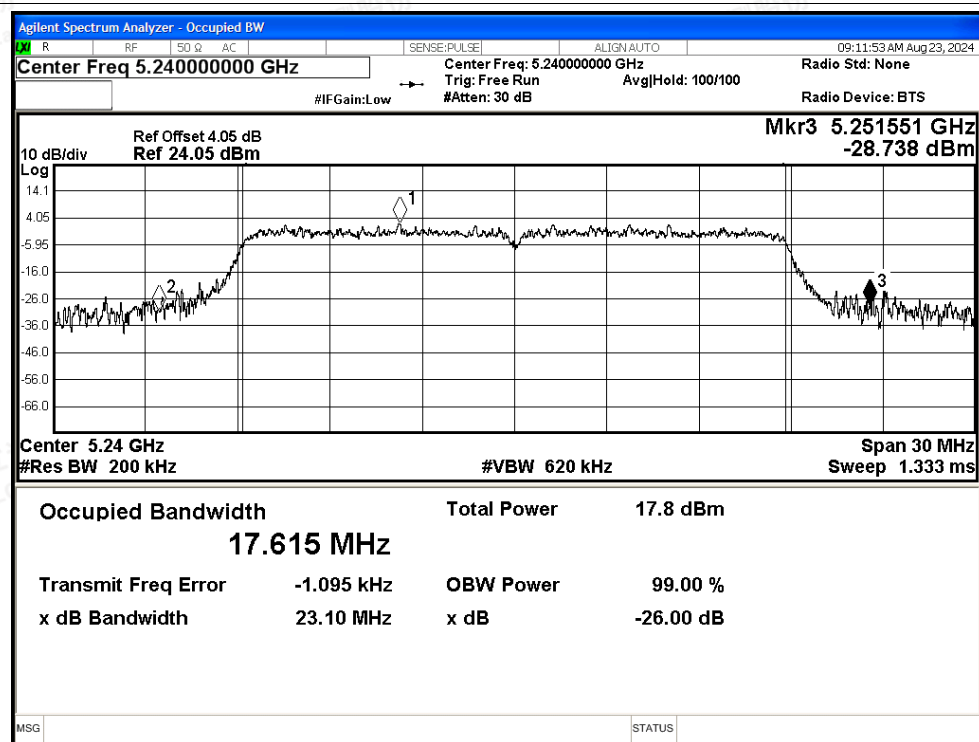
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-26dB Bandwidth NVNT n20 5200MHz Ant1

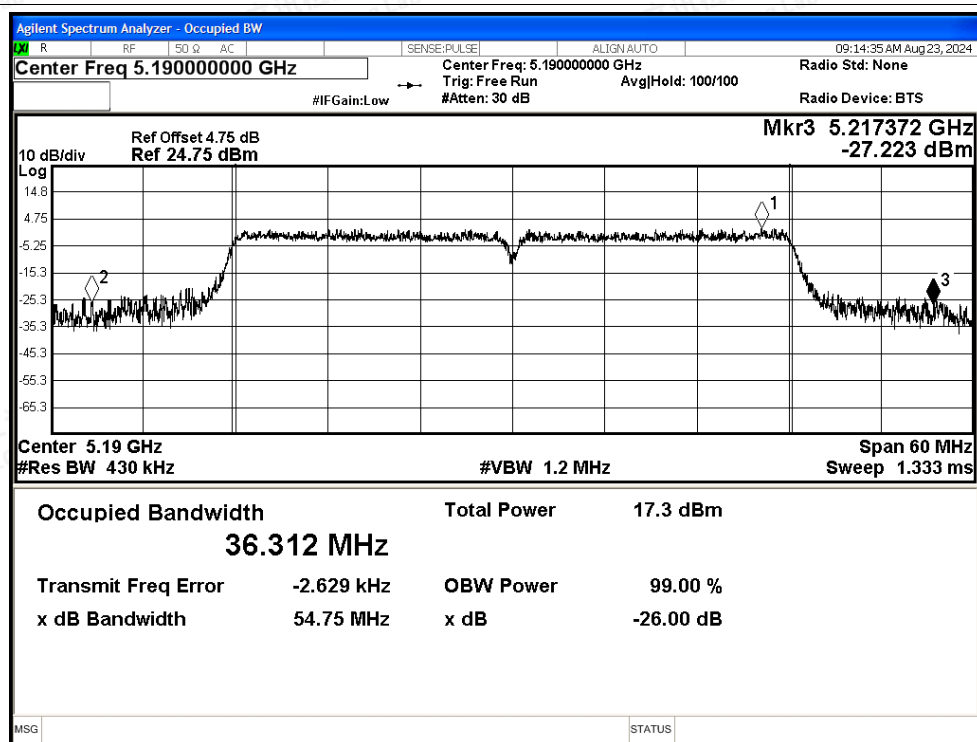


-26dB Bandwidth NVNT n20 5240MHz Ant1

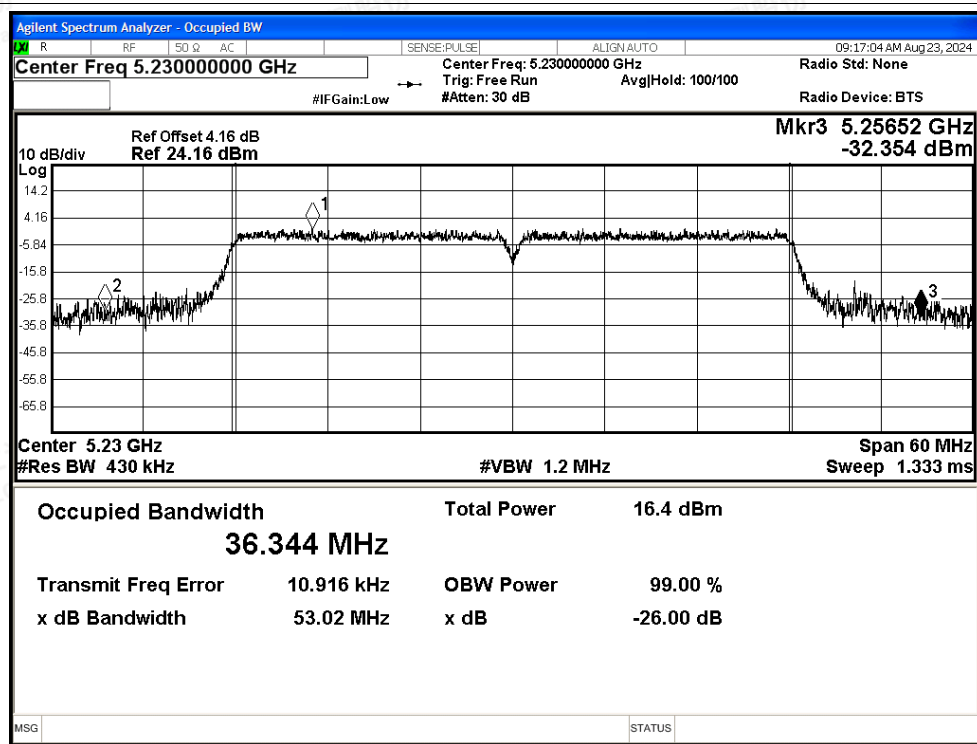




-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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C.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	12.14	0.51	12.65	24	Pass
NVNT	a	5200	Ant1	12.64	0.47	13.11	24	Pass
NVNT	a	5240	Ant1	11.84	0.5	12.34	24	Pass
NVNT	n20	5180	Ant1	11.82	0.55	12.37	24	Pass
NVNT	n20	5200	Ant1	11.61	0.59	12.20	24	Pass
NVNT	n20	5240	Ant1	11.7	0.55	12.25	24	Pass
NVNT	n40	5190	Ant1	10.81	0.98	11.79	24	Pass
NVNT	n40	5230	Ant1	10.1	0.98	11.08	24	Pass





C.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	1.55	0.51	2.06	11	Pass
NVNT	a	5200	Ant1	1.92	0.47	2.39	11	Pass
NVNT	a	5240	Ant1	1.62	0.5	2.12	11	Pass
NVNT	n20	5180	Ant1	1.21	0.55	1.76	11	Pass
NVNT	n20	5200	Ant1	1.38	0.59	1.97	11	Pass
NVNT	n20	5240	Ant1	1.01	0.55	1.56	11	Pass
NVNT	n40	5190	Ant1	-2.93	0.98	-1.95	11	Pass
NVNT	n40	5230	Ant1	-3.55	0.98	-2.57	11	Pass

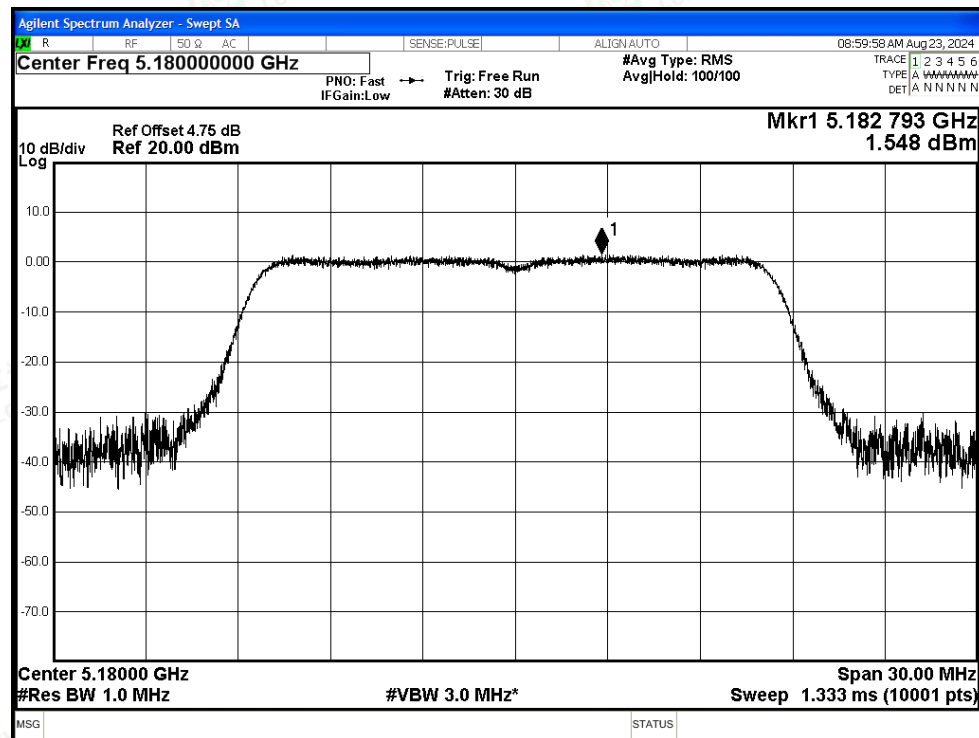


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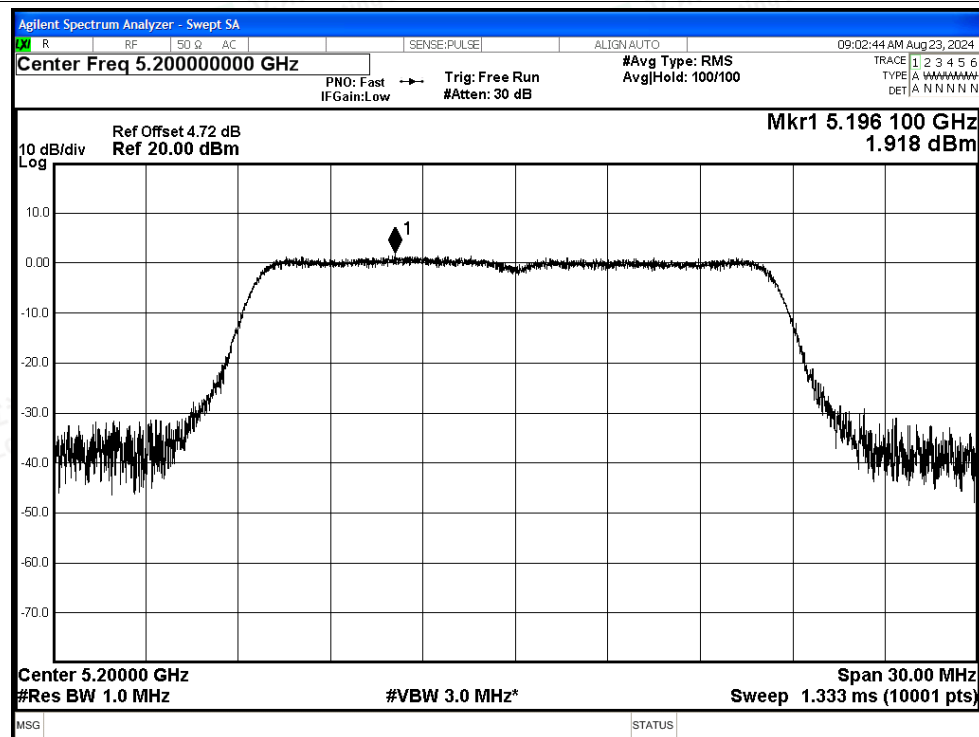


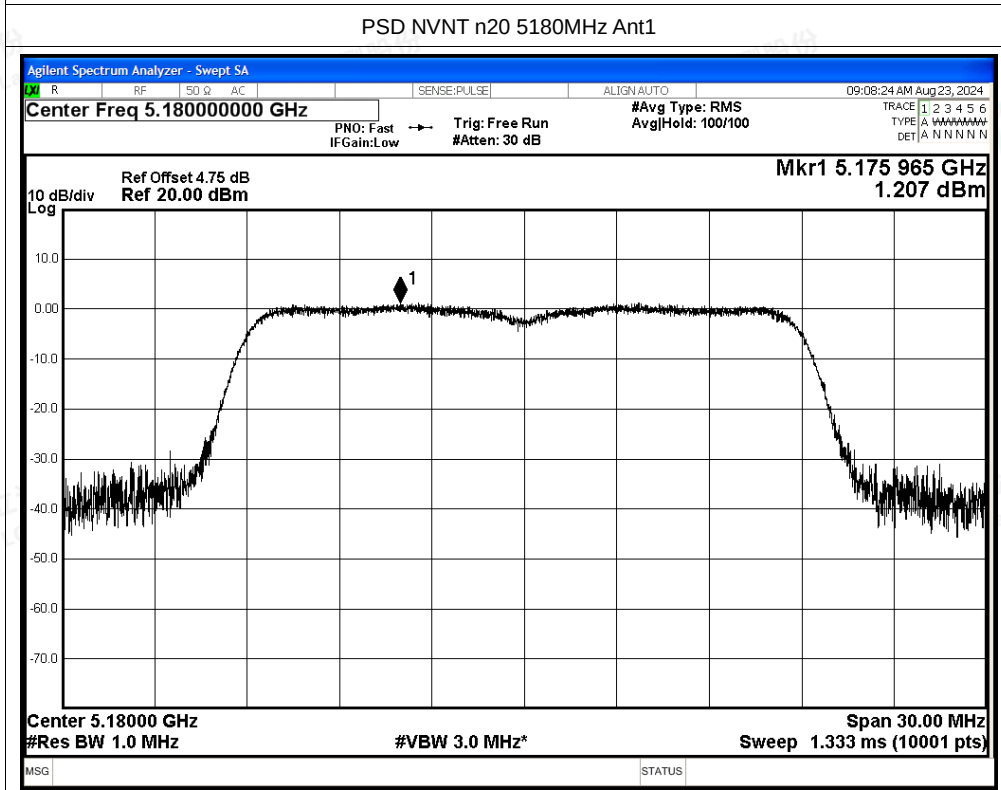
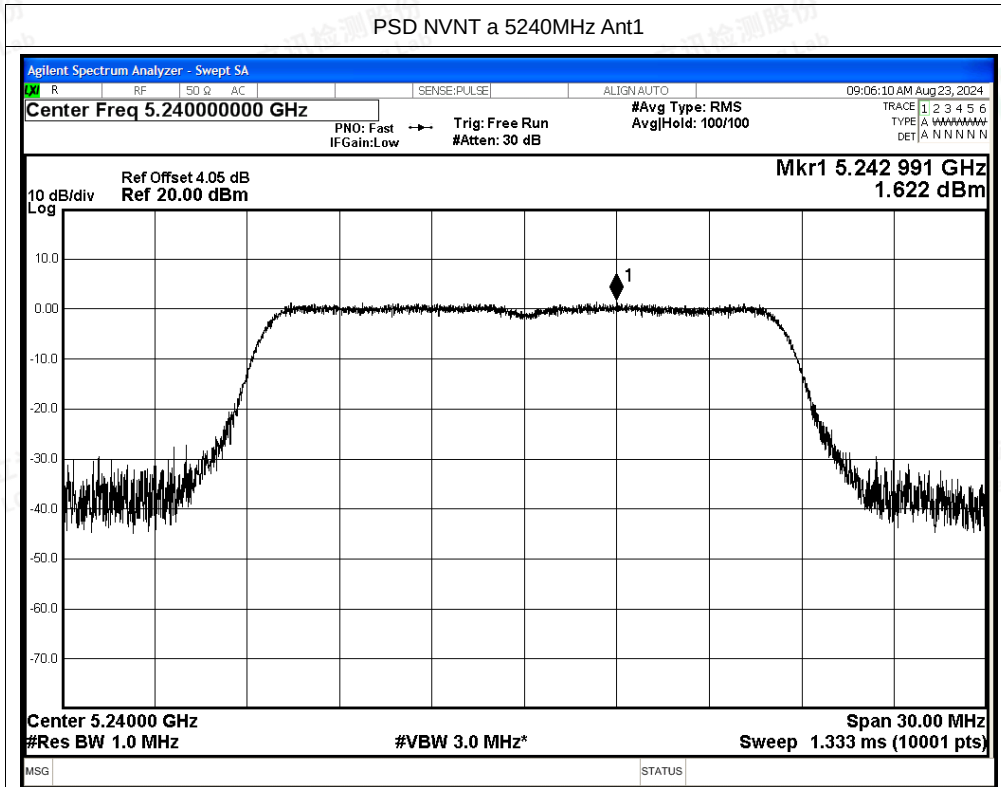
Test Graphs

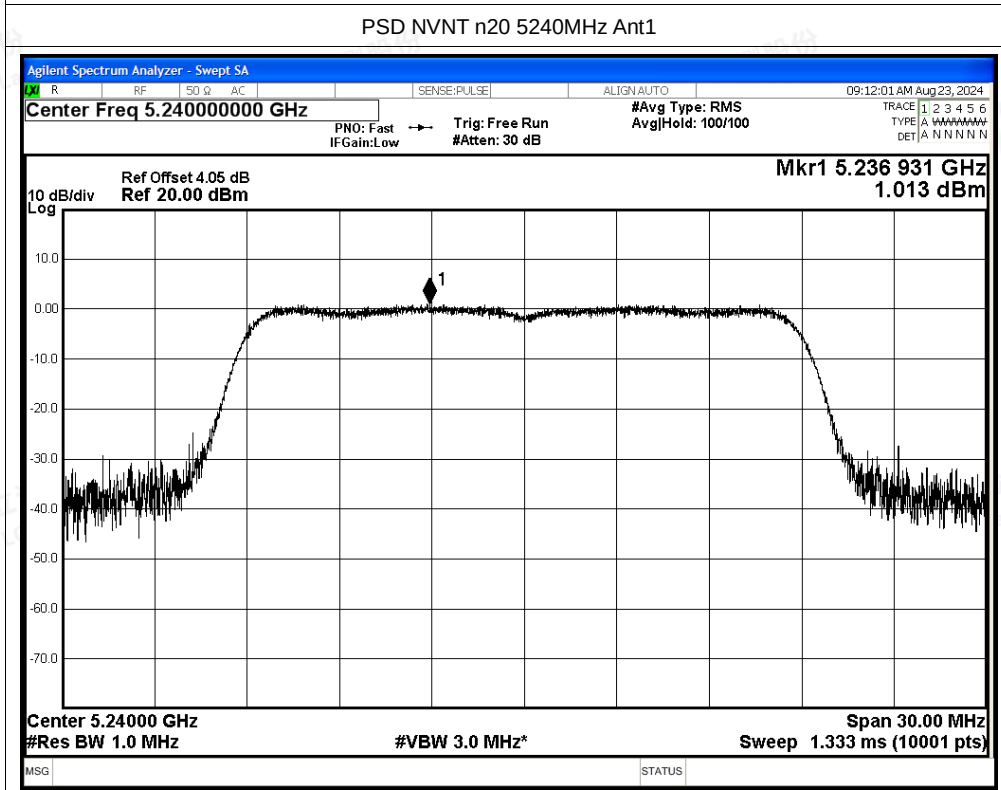
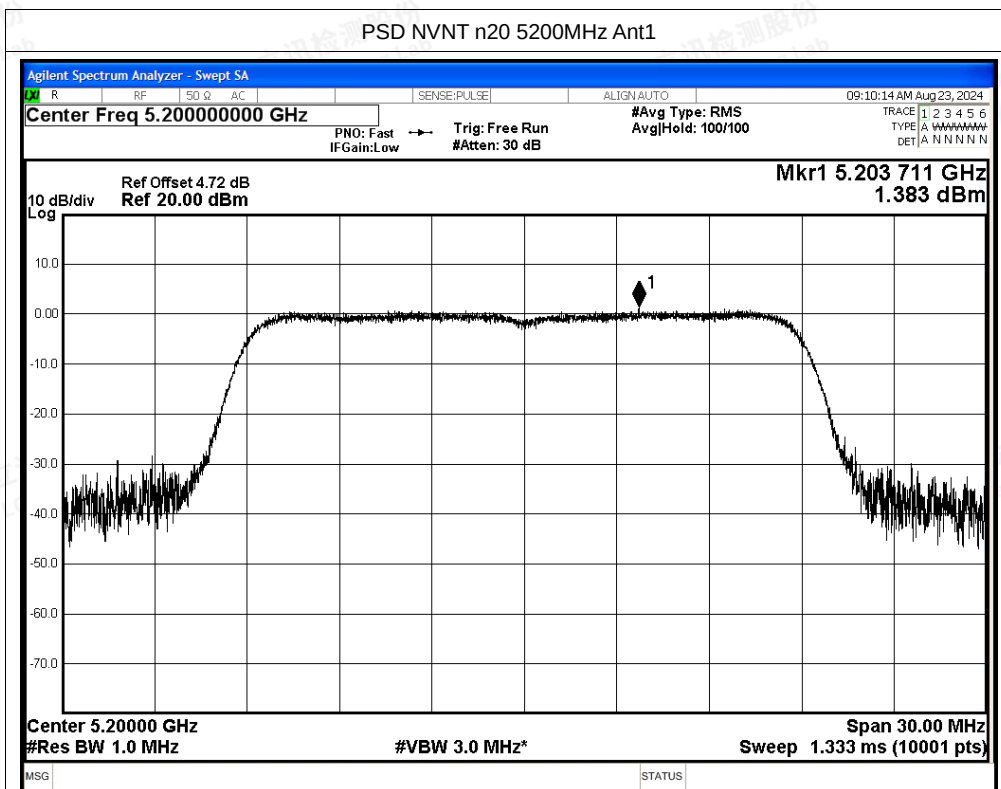
PSD NVNT a 5180MHz Ant1

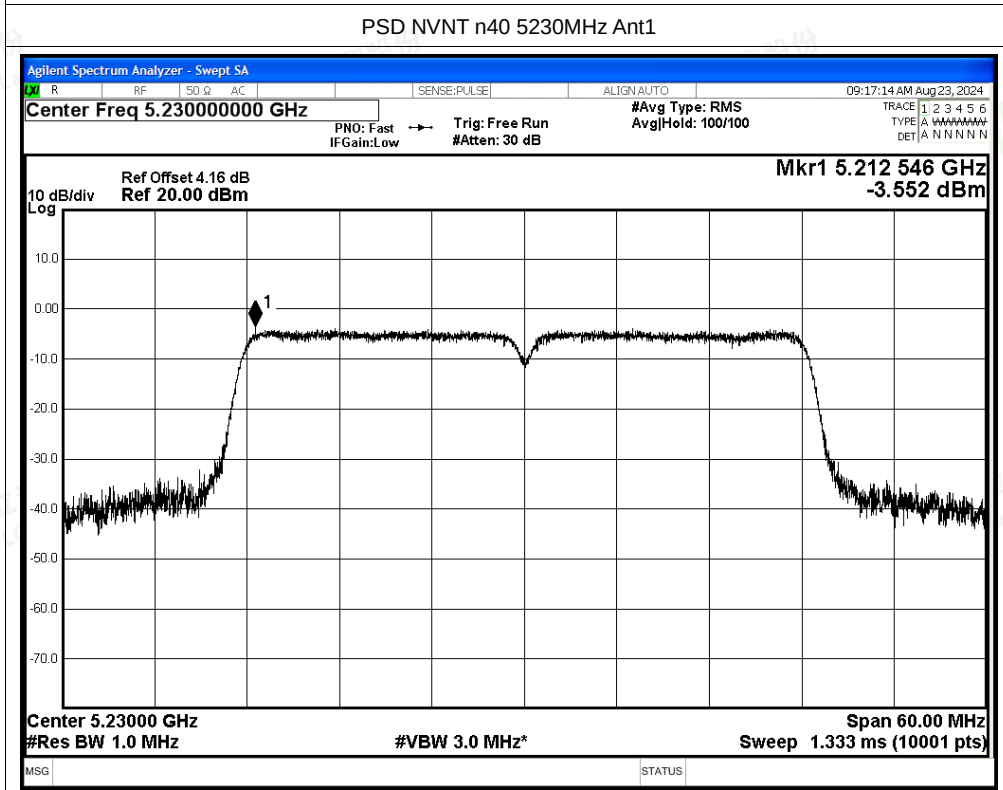
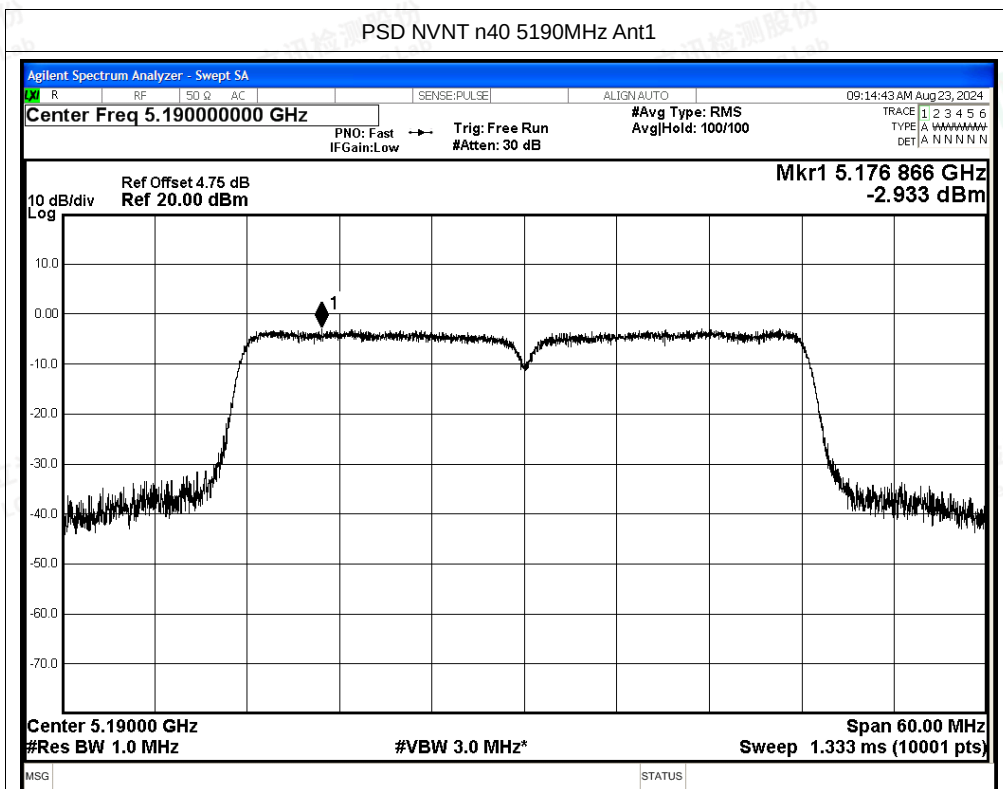


PSD NVNT a 5200MHz Ant1









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C.4 Restrict Band

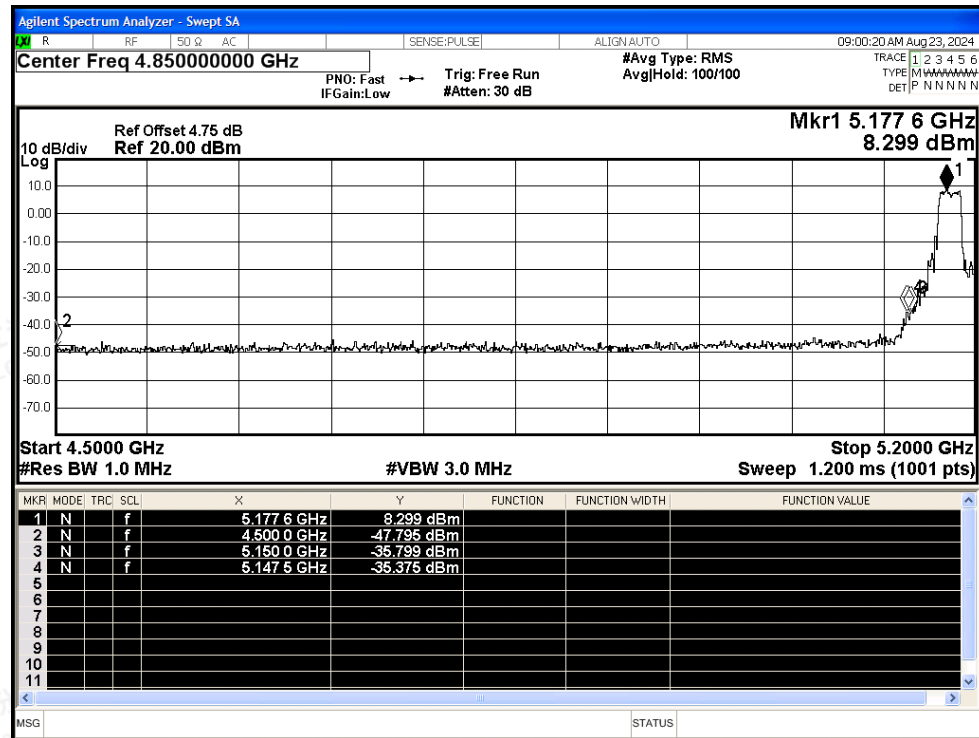
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-47.8	4.05	-	51.48	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-56.53	4.05	0.51	43.26	Average	54	Pass
NVNT	a	5180	Ant1	5147.5	-35.38	4.05	-	63.90	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.9	-50.69	4.05	0.51	49.10	Average	54	Pass
NVNT	a	5180	Ant1	5150	-35.8	4.05	-	63.48	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-49.69	4.05	0.51	50.10	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.2	4.05	-	51.08	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.05	4.05	0.5	42.73	Average	54	Pass
NVNT	a	5240	Ant1	5357.76	-45.98	4.05	-	53.30	Peak	68.2	Pass
NVNT	a	5240	Ant1	5369.76	-56.15	4.05	0.5	43.63	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.7	4.05	-	49.58	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.36	4.05	0.5	42.42	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.55	4.05	-	49.73	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.4	4.05	0.55	42.43	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-36.36	4.05	-	62.92	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-50.65	4.05	0.55	49.18	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-33.15	4.05	-	66.13	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-49.41	4.05	0.55	50.42	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.97	4.05	-	50.31	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.24	4.05	0.55	42.59	Average	54	Pass
NVNT	n20	5240	Ant1	5374.56	-43.99	4.05	-	55.29	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5353.92	-56.06	4.05	0.55	43.77	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.04	4.05	-	51.24	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.93	4.05	0.55	42.90	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.88	4.05	-	50.40	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.06	4.05	0.98	43.20	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-38.5	4.05	-	60.78	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-49.99	4.05	0.98	50.27	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-38.5	4.05	-	60.78	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-49.99	4.05	0.98	50.27	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.01	4.05	-	50.27	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.72	4.05	0.98	43.54	Average	54	Pass
NVNT	n40	5230	Ant1	5384.13	-45.78	4.05	-	53.50	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5395.74	-56.17	4.05	0.98	44.09	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.46	4.05	-	49.82	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.17	4.05	0.98	43.09	Average	54	Pass



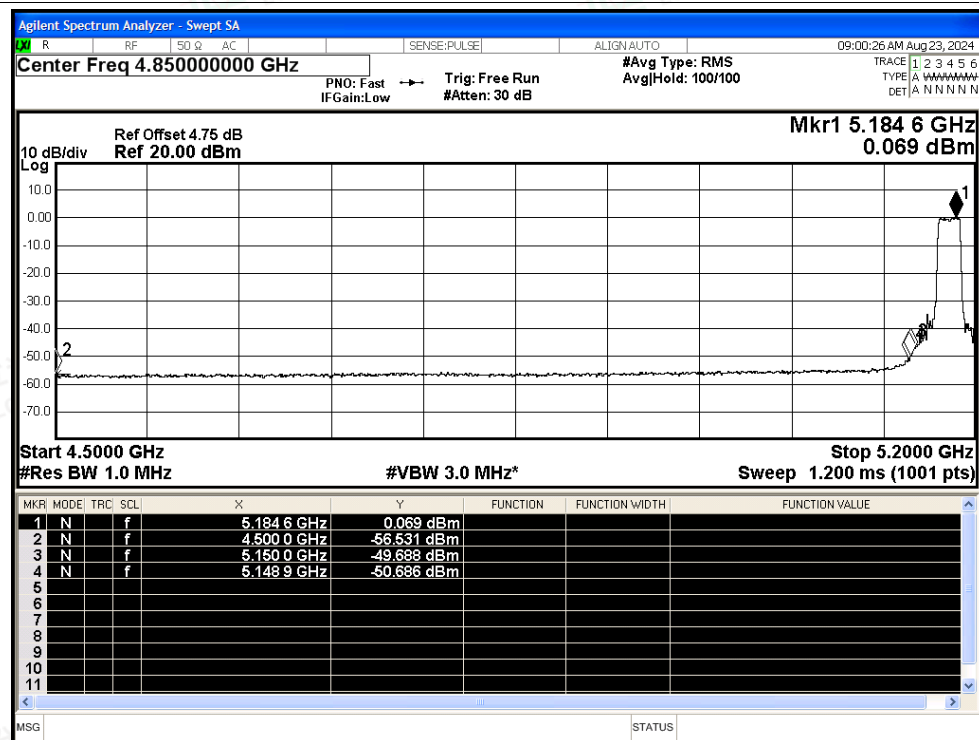


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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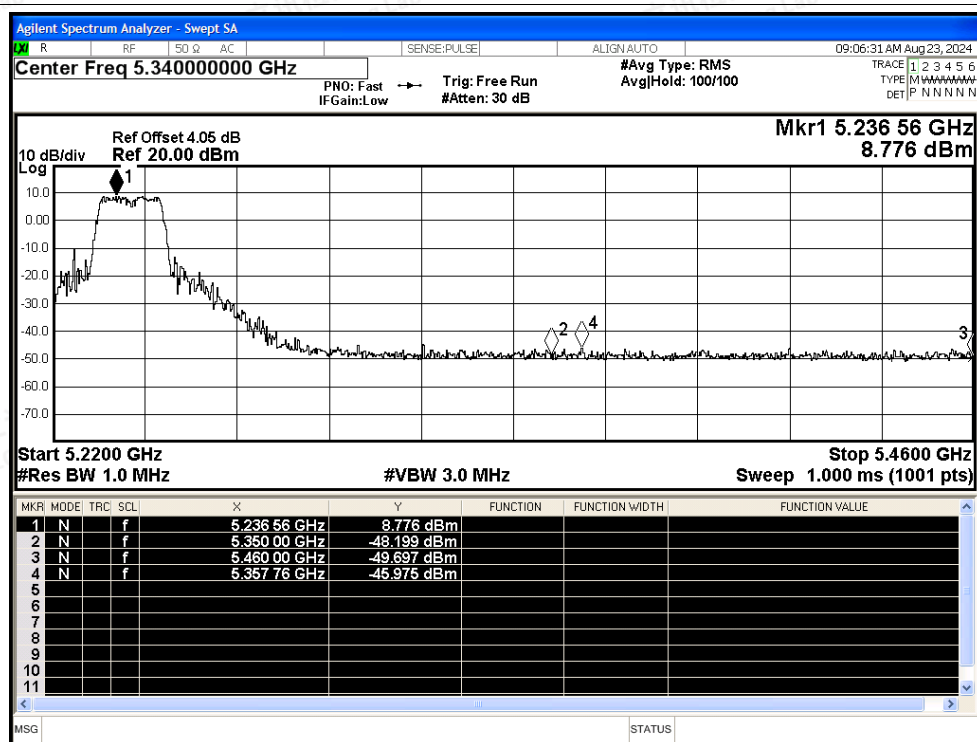
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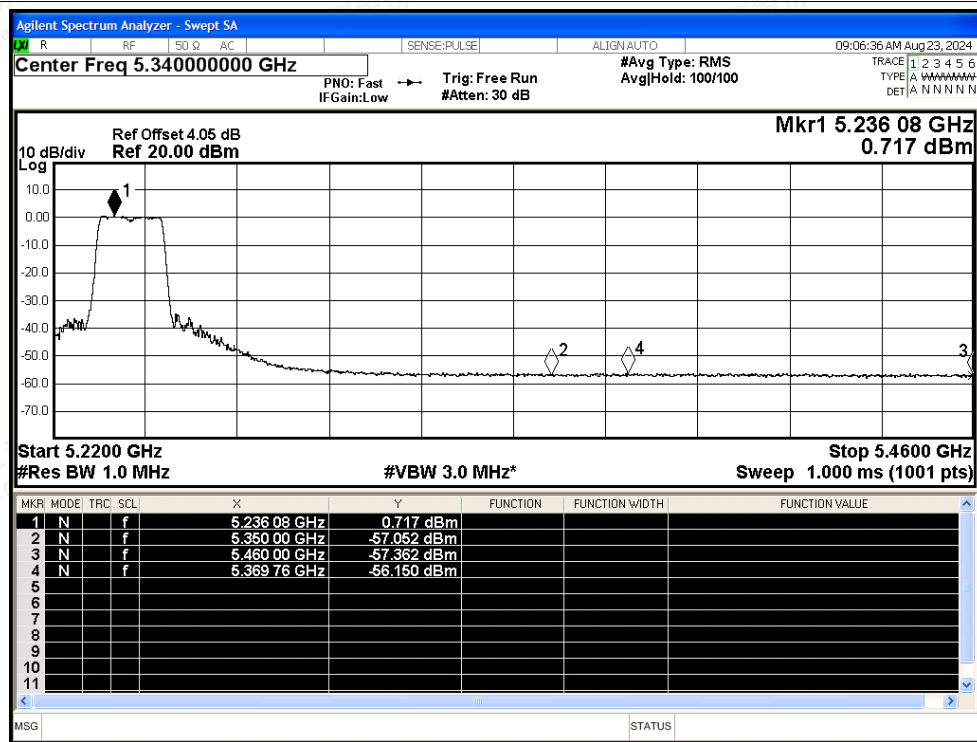
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



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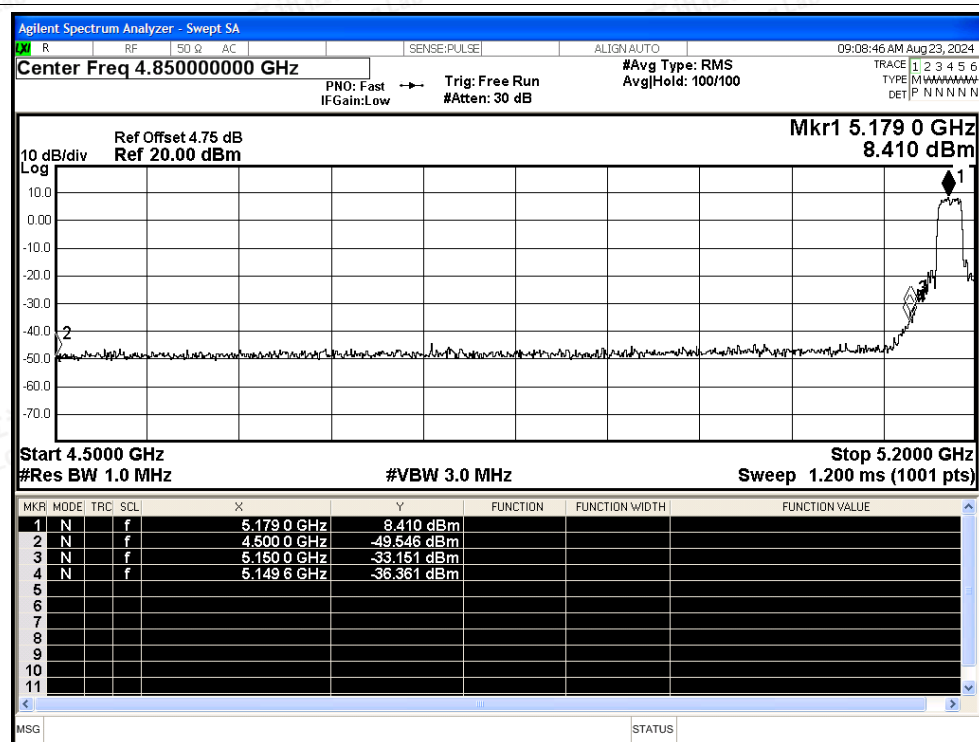
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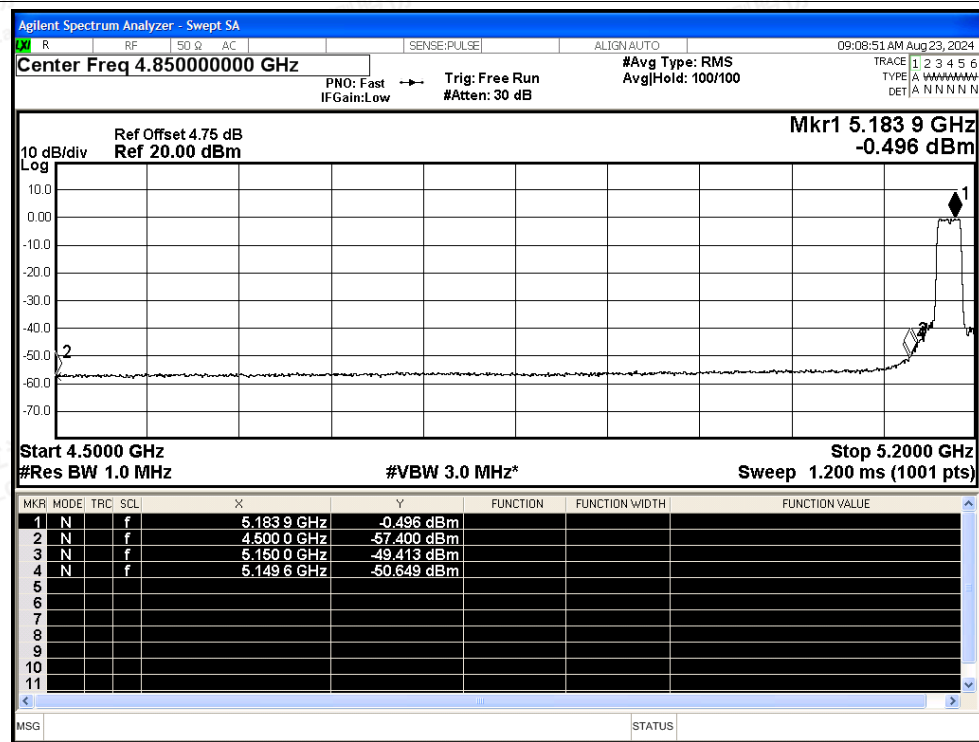
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Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



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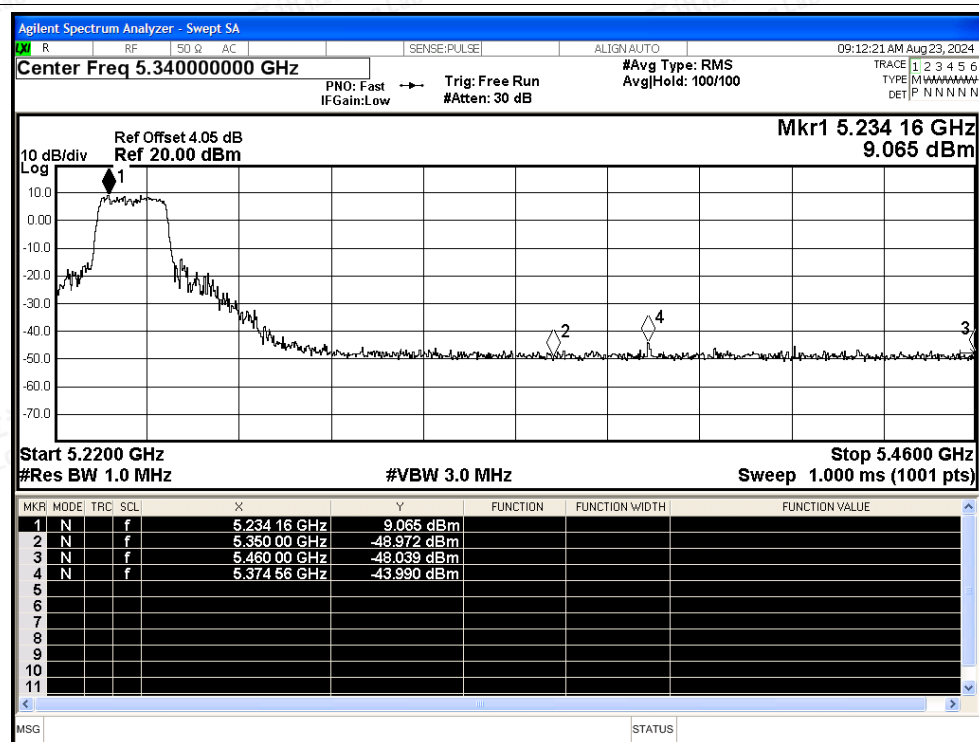
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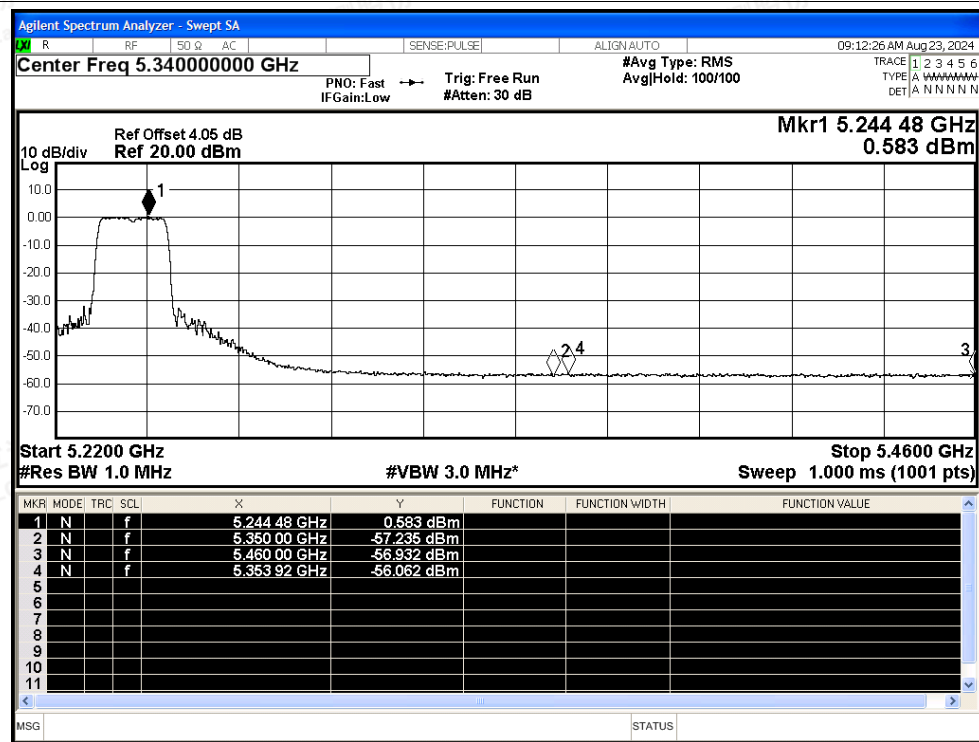
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Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



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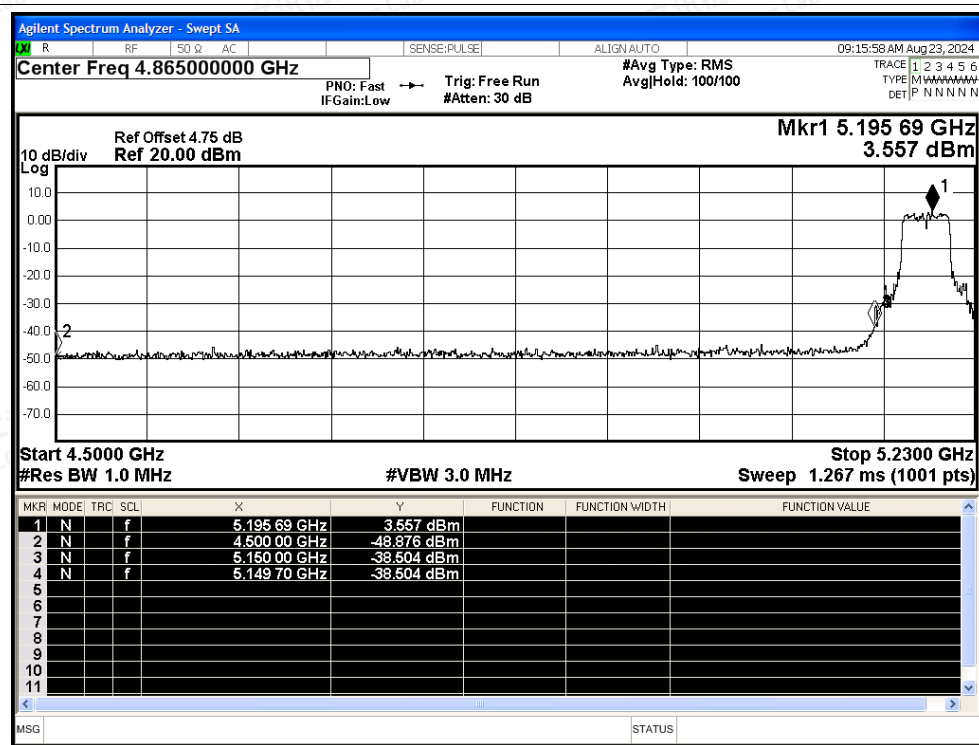
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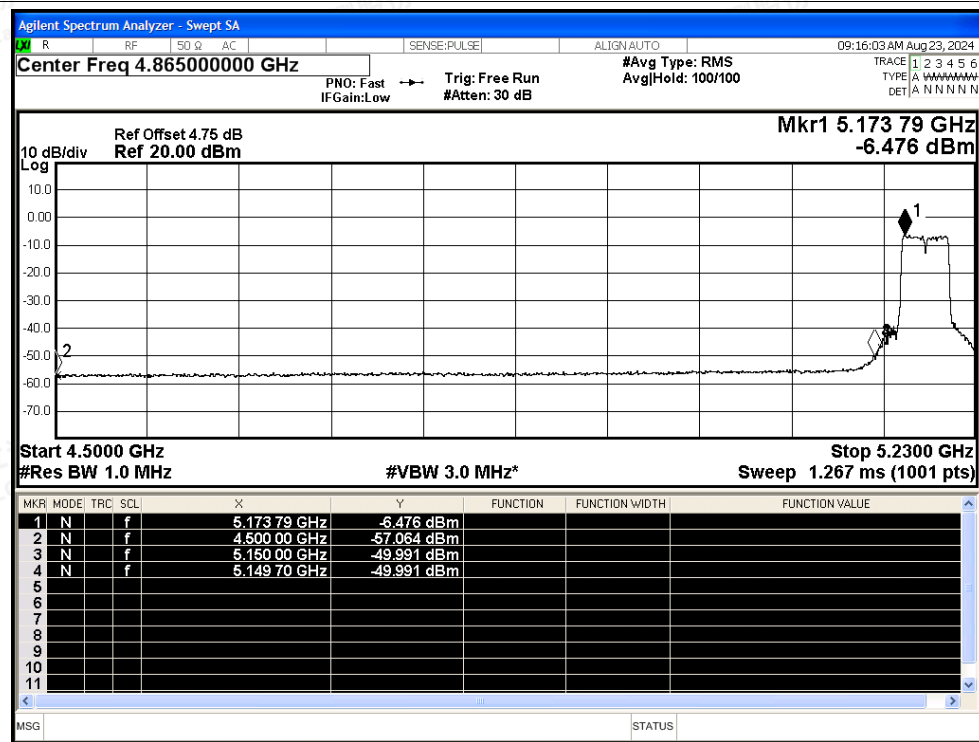
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Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



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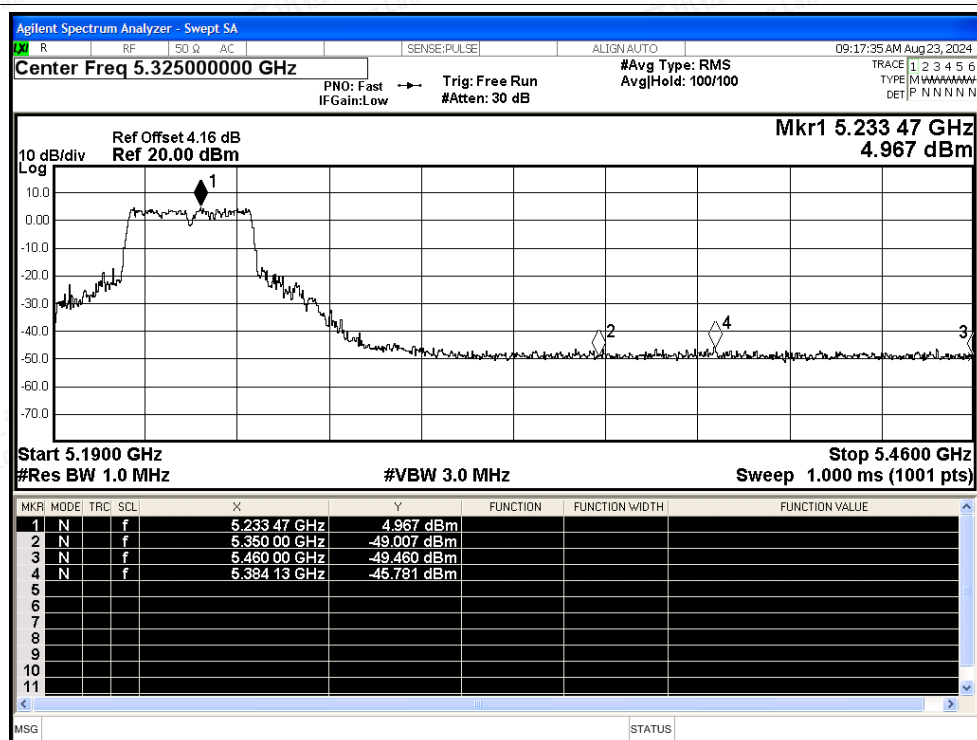
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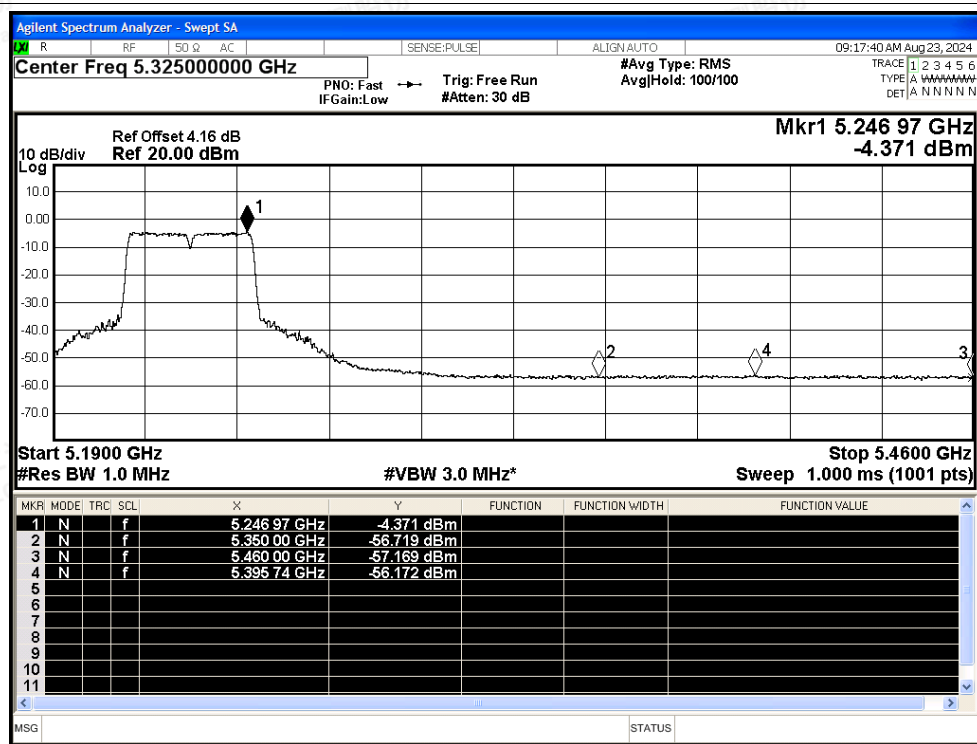
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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C.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass

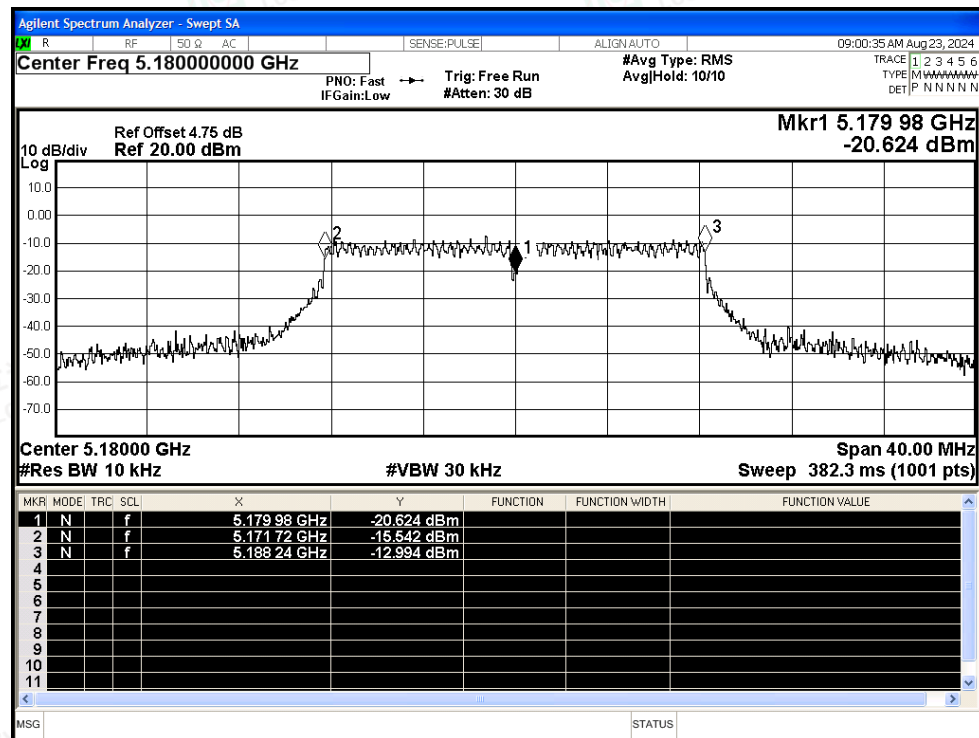


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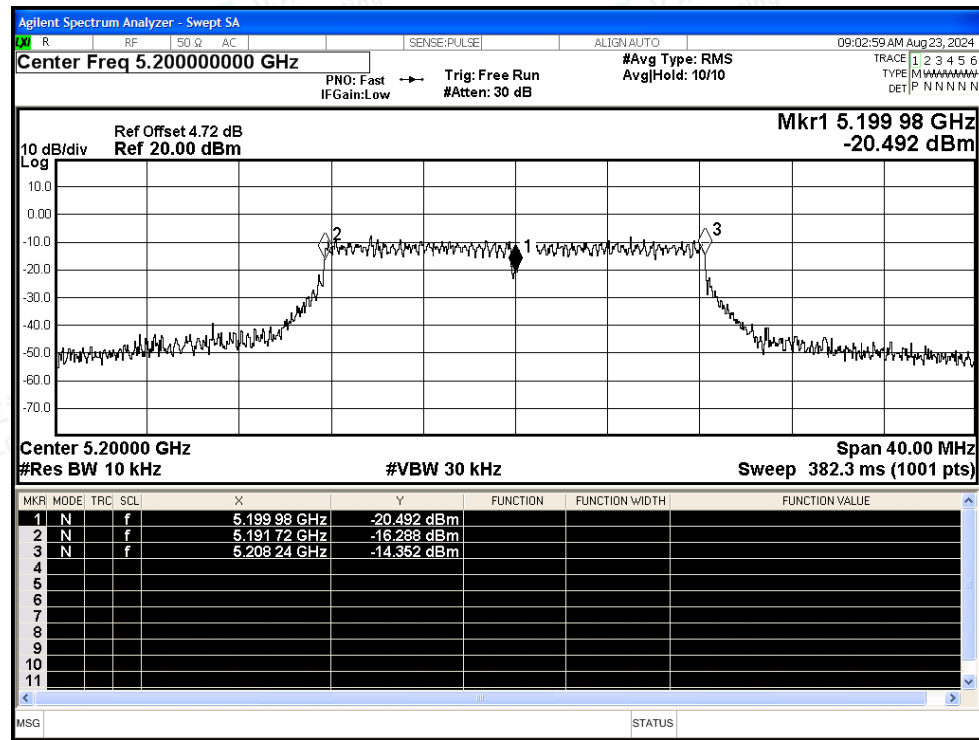


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1



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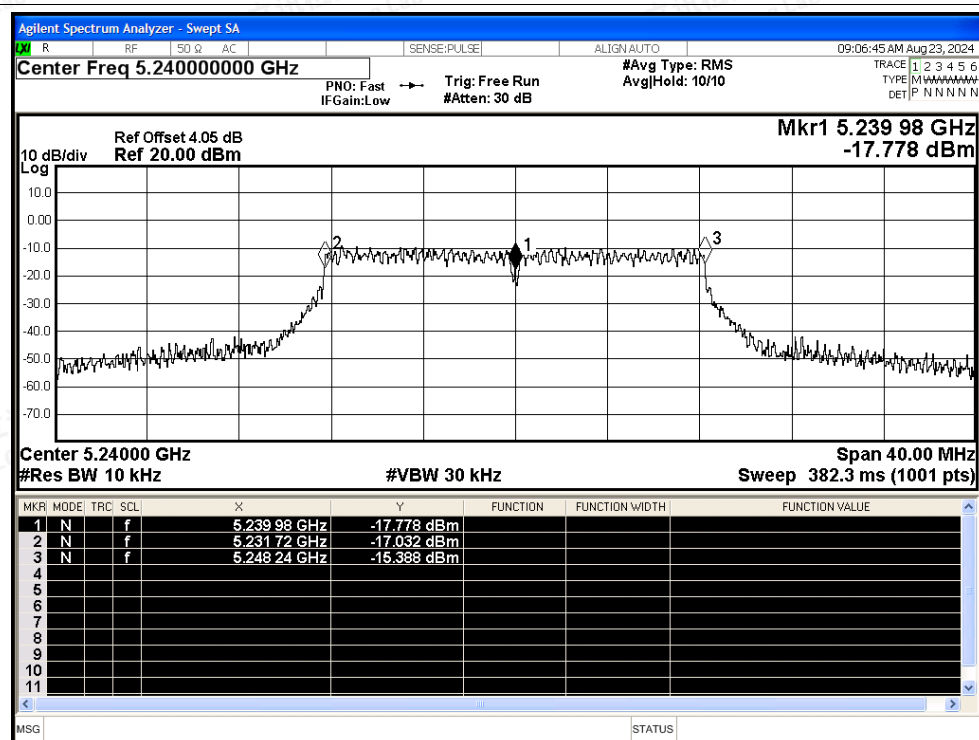
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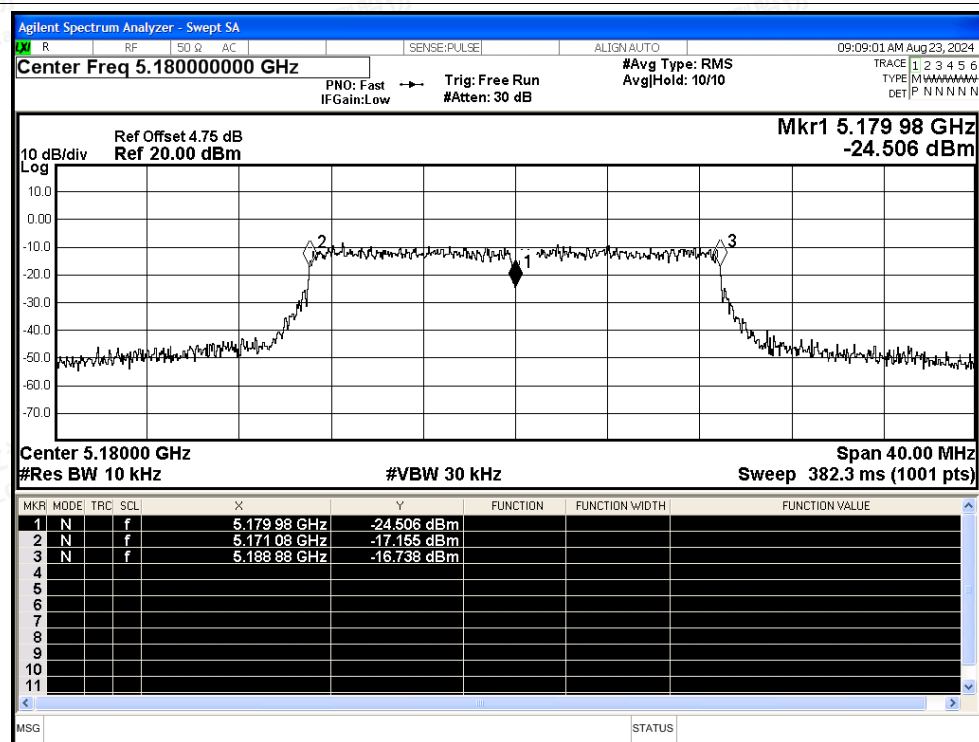
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Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1



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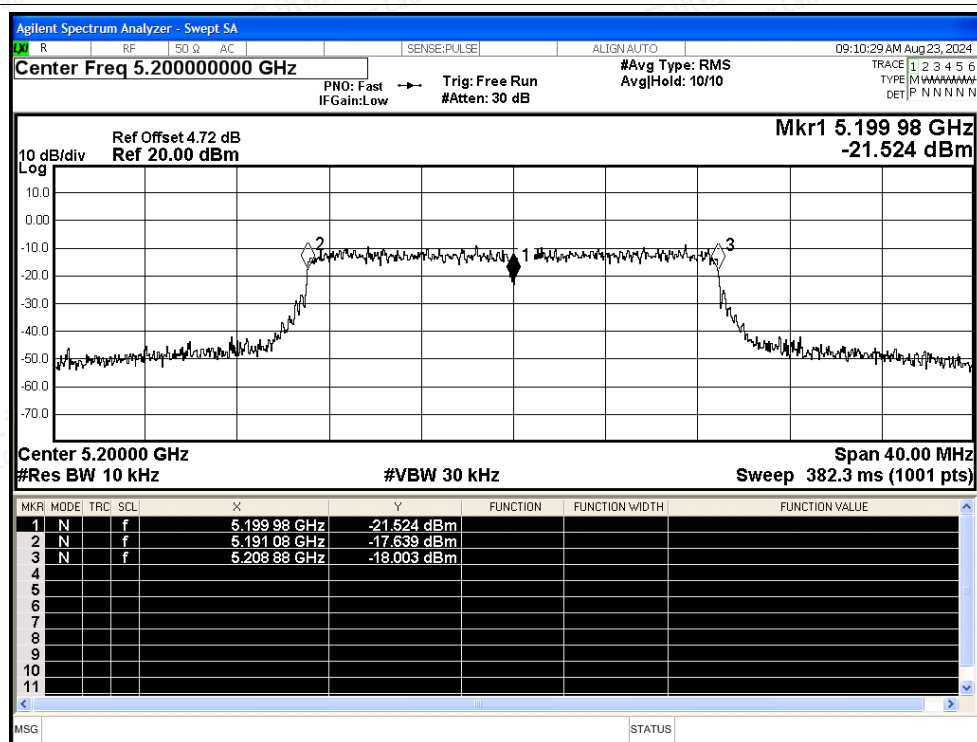
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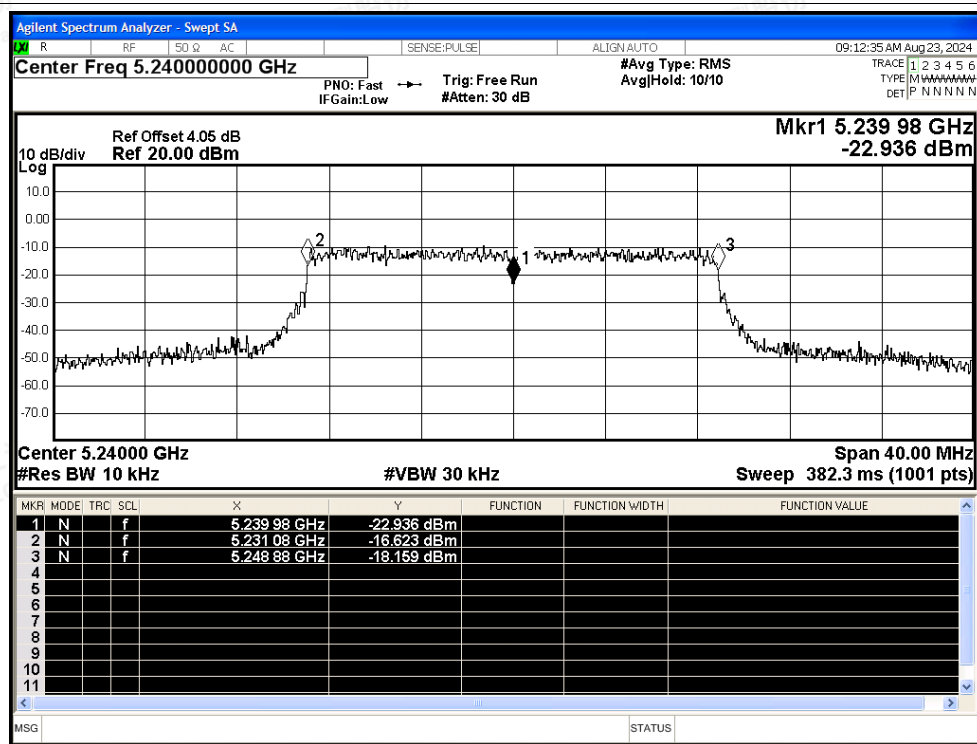
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Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



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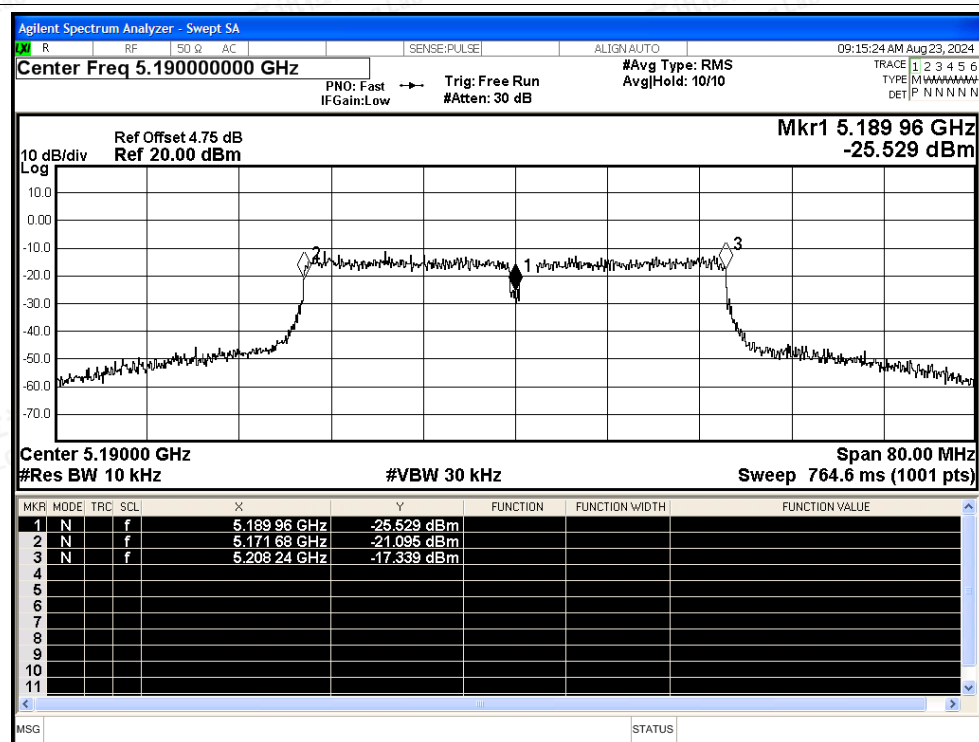
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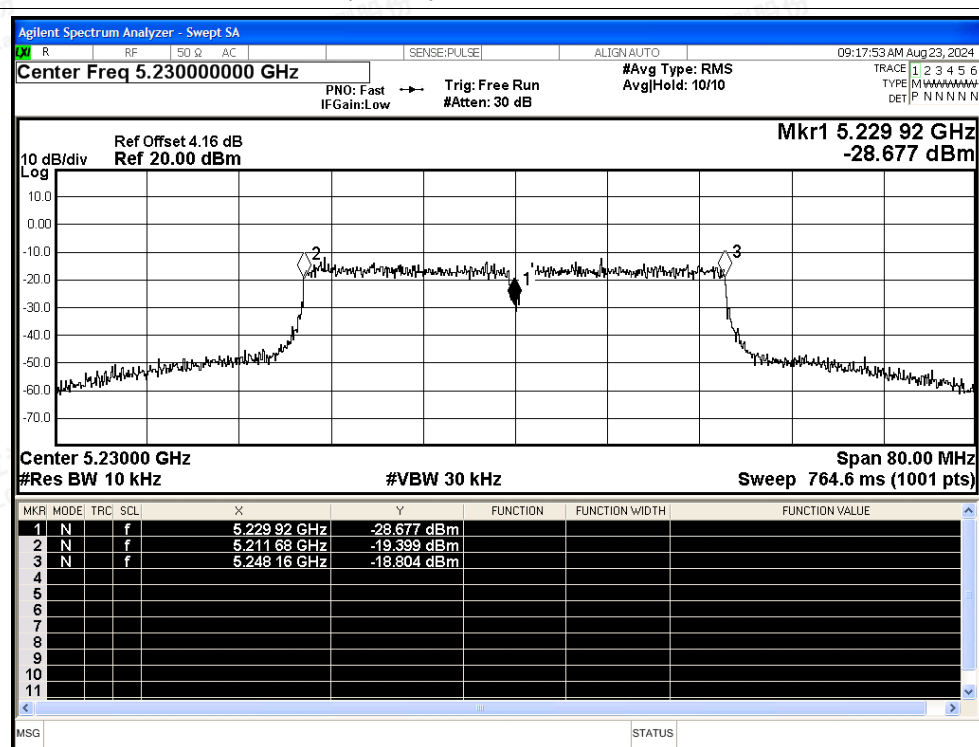
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Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



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C.6 Duty Cycle

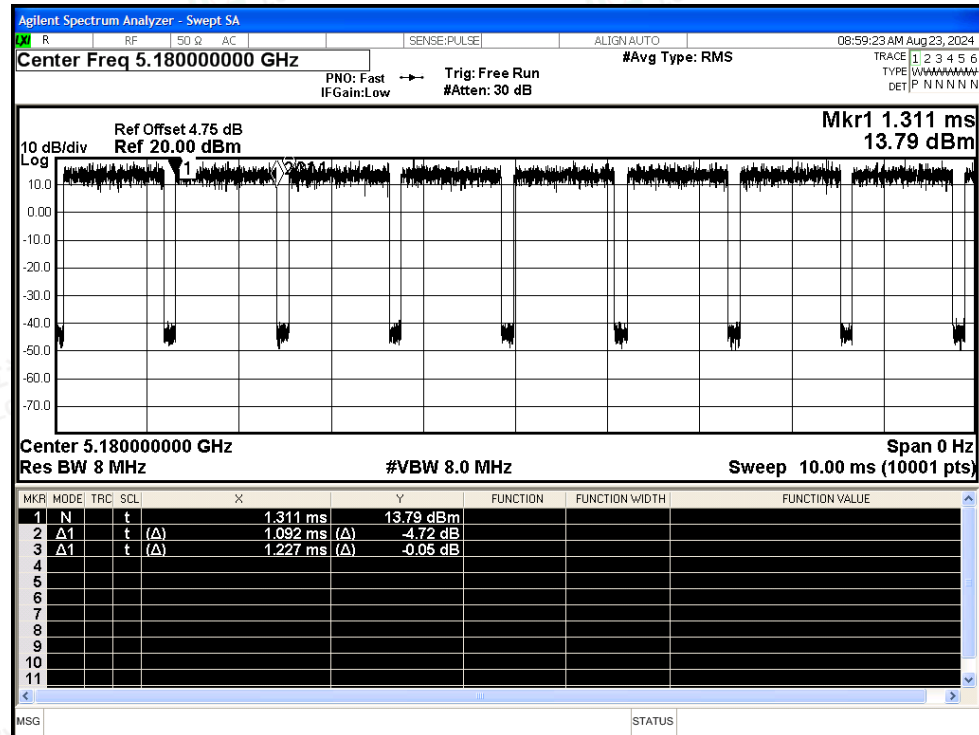
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	89	0.51	0.92
NVNT	a	5200	Ant1	89.74	0.47	0.91
NVNT	a	5240	Ant1	89.08	0.5	0.91
NVNT	n20	5180	Ant1	88.11	0.55	1.08
NVNT	n20	5200	Ant1	87.26	0.59	1.08
NVNT	n20	5240	Ant1	88.11	0.55	1.08
NVNT	n40	5190	Ant1	79.89	0.98	1.75
NVNT	n40	5230	Ant1	79.89	0.98	1.75



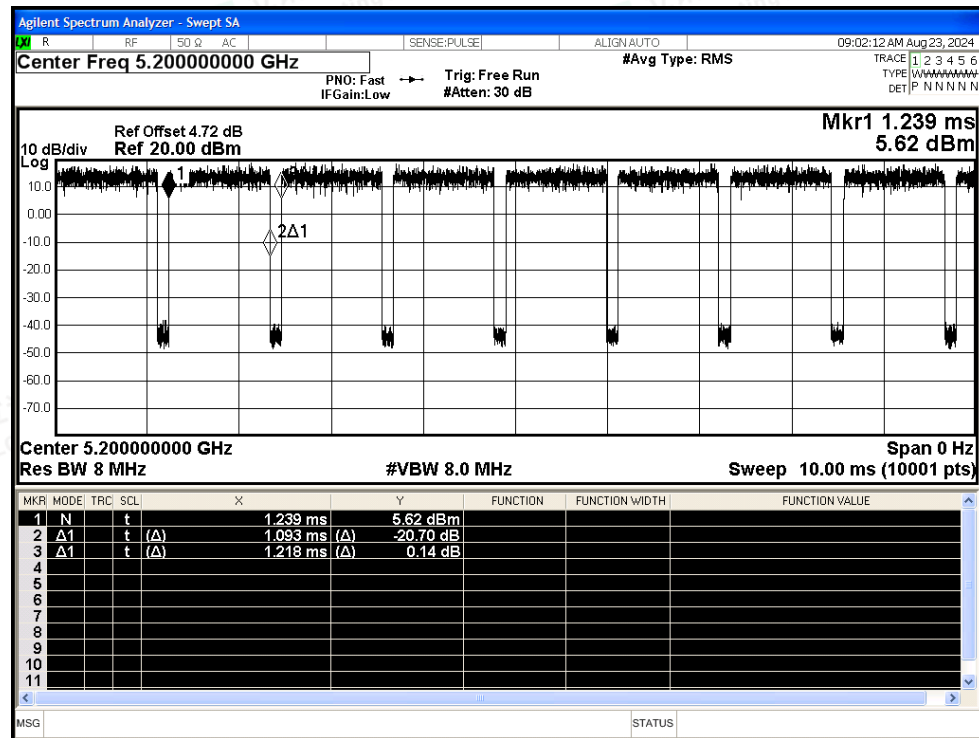


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

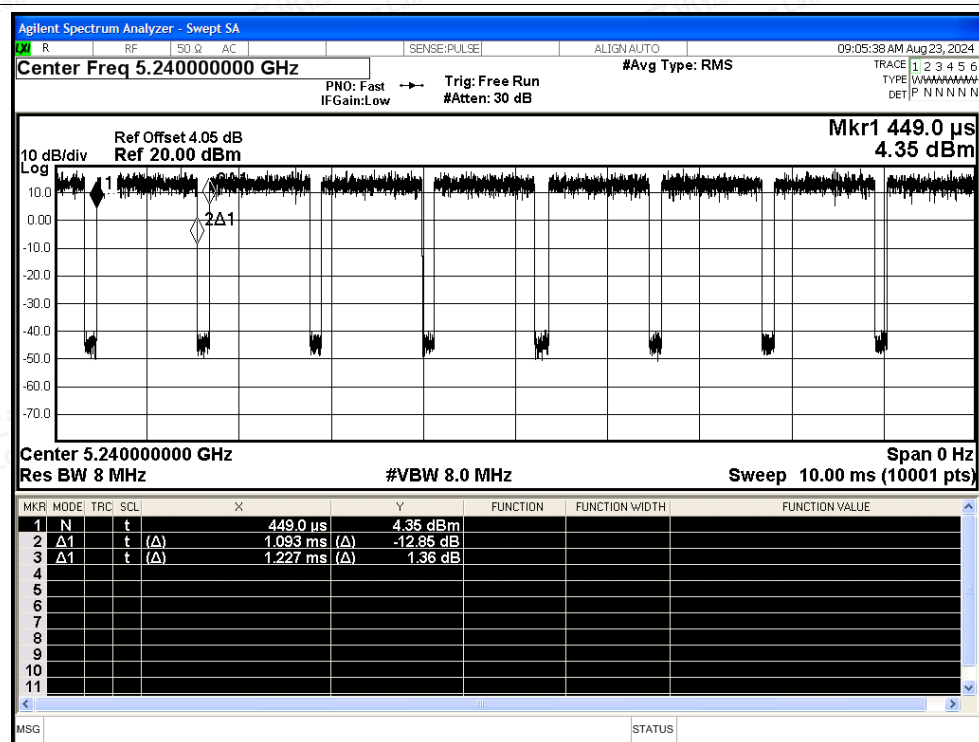
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

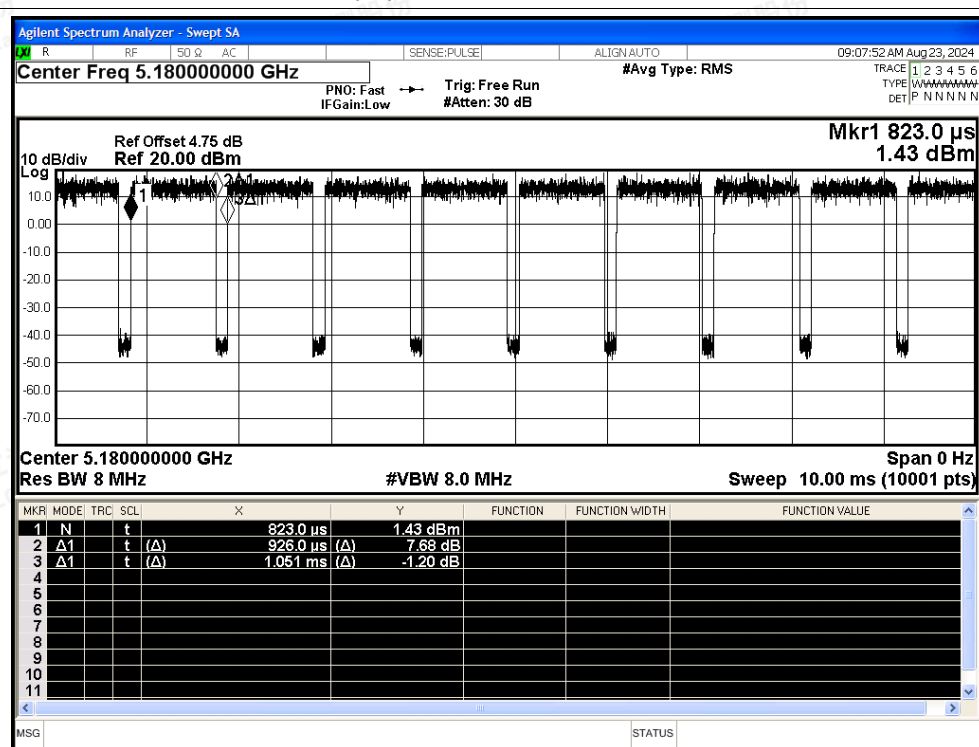
Scan code to check authenticity



Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

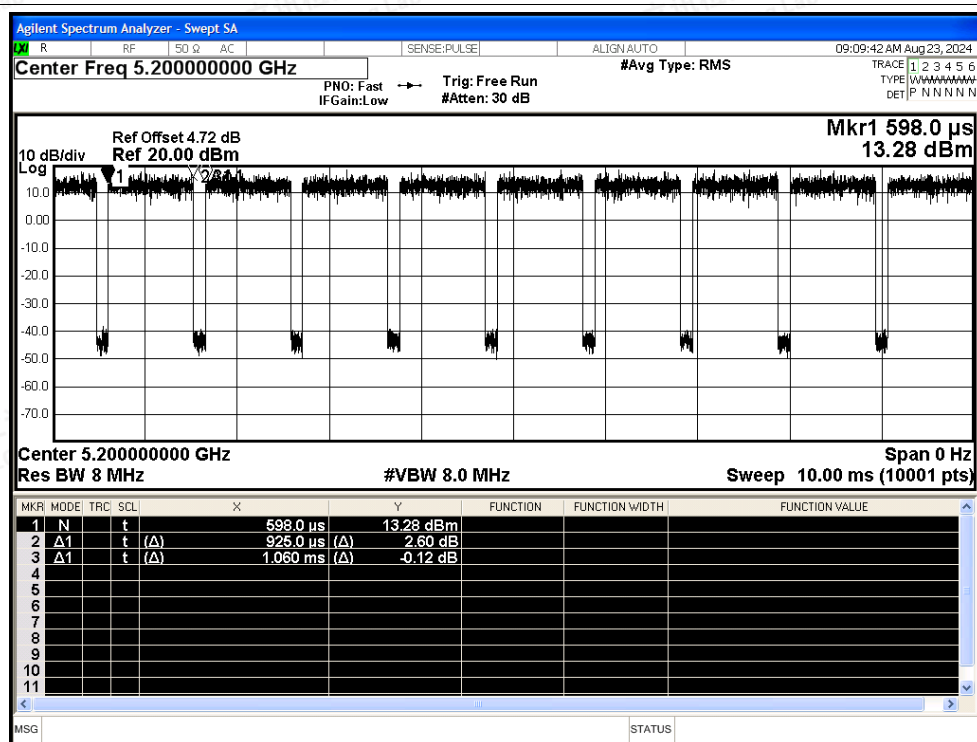
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

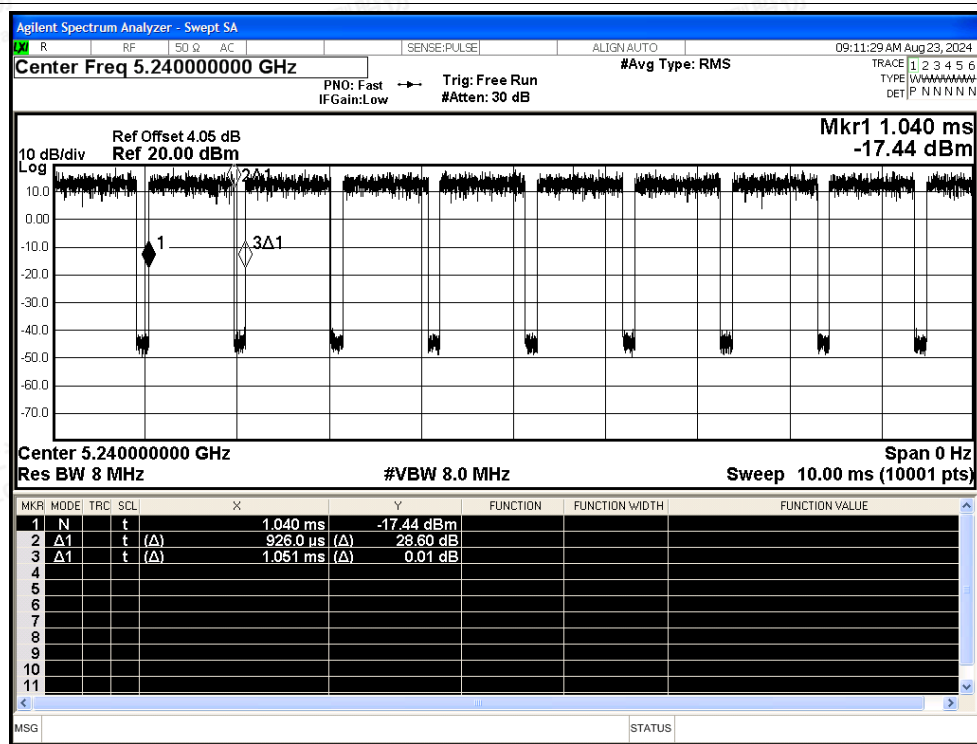
Scan code to check authenticity



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

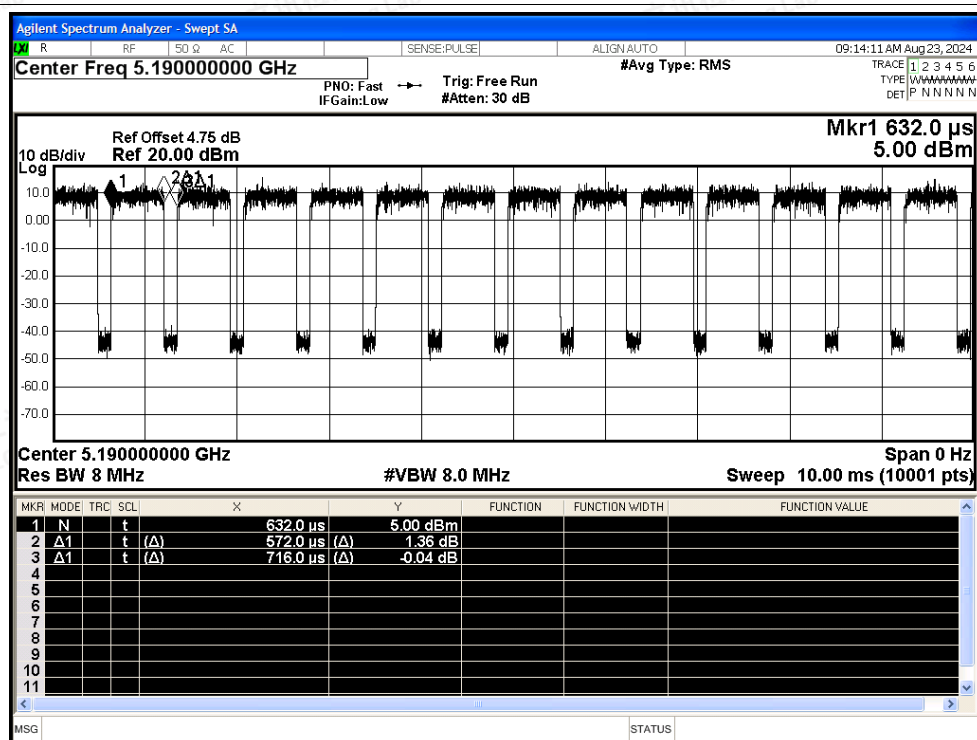
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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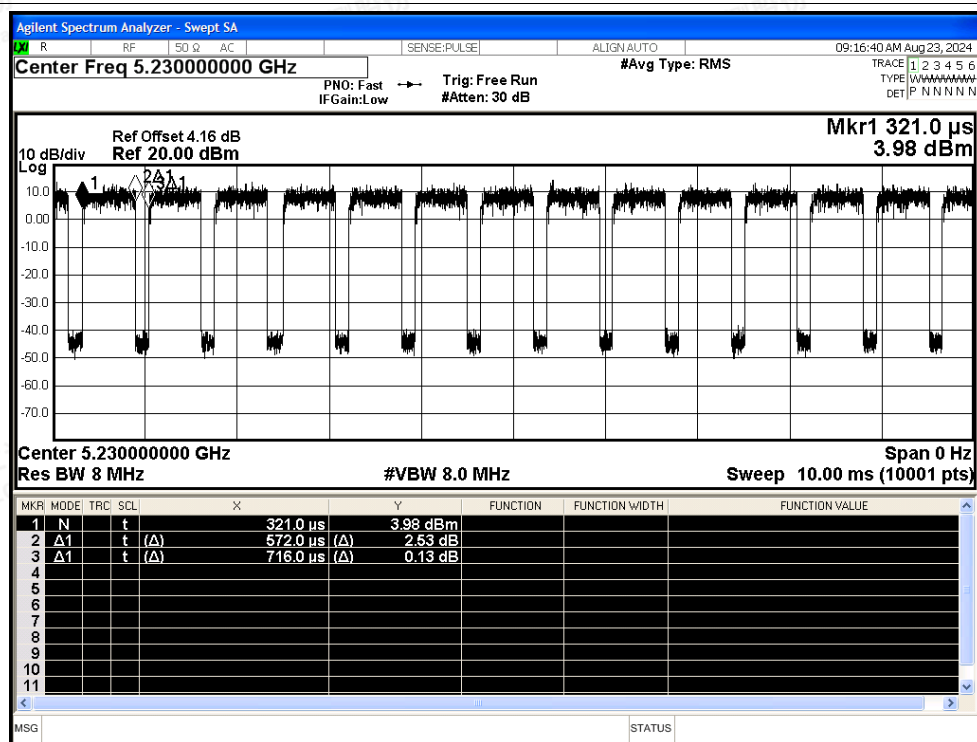
Scan code to check authenticity



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



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