



Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: Communicator

Test Model: Communicator 3-A

Environmental Conditions

Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan



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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	Ant	19.544	---	Pass
NVNT	a	5200	Ant	19.589	---	Pass
NVNT	a	5240	Ant	19.728	---	Pass
NVNT	n20	5180	Ant	20.194	---	Pass
NVNT	n20	5200	Ant	20.085	---	Pass
NVNT	n20	5240	Ant	20.028	---	Pass
NVNT	n40	5190	Ant	40.097	---	Pass
NVNT	n40	5230	Ant	39.817	---	Pass
NVNT	ac20	5180	Ant	20.154	---	Pass
NVNT	ac20	5200	Ant	20.242	---	Pass
NVNT	ac20	5240	Ant	20	---	Pass
NVNT	ac40	5190	Ant	39.833	---	Pass
NVNT	ac40	5230	Ant	40.065	---	Pass
NVNT	ac80	5210	Ant	80.449	---	Pass

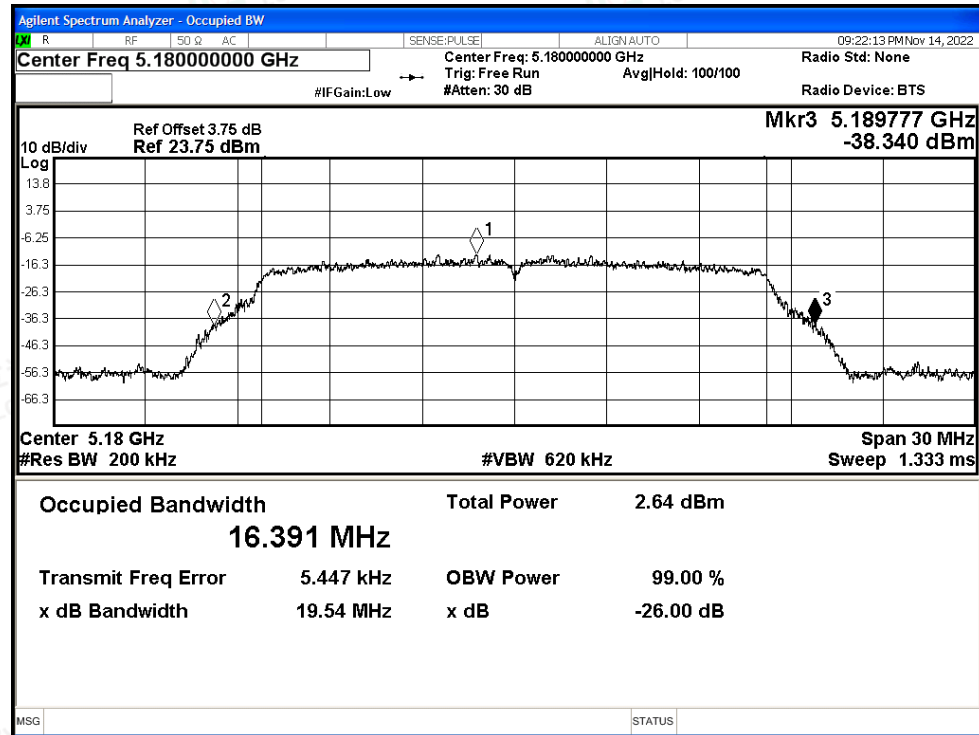


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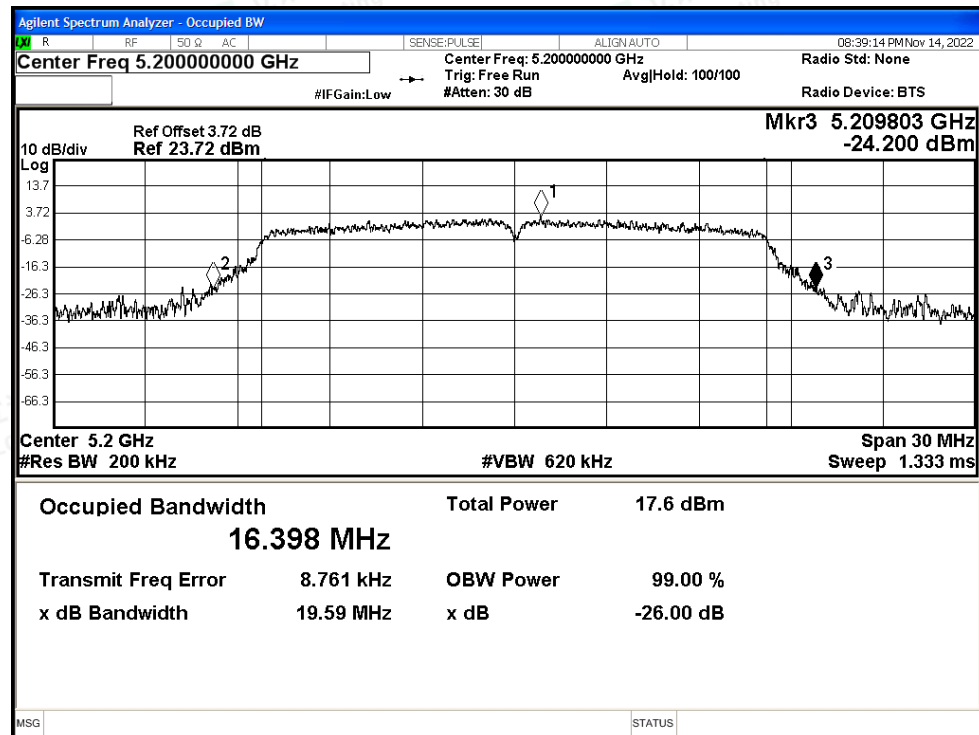


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant

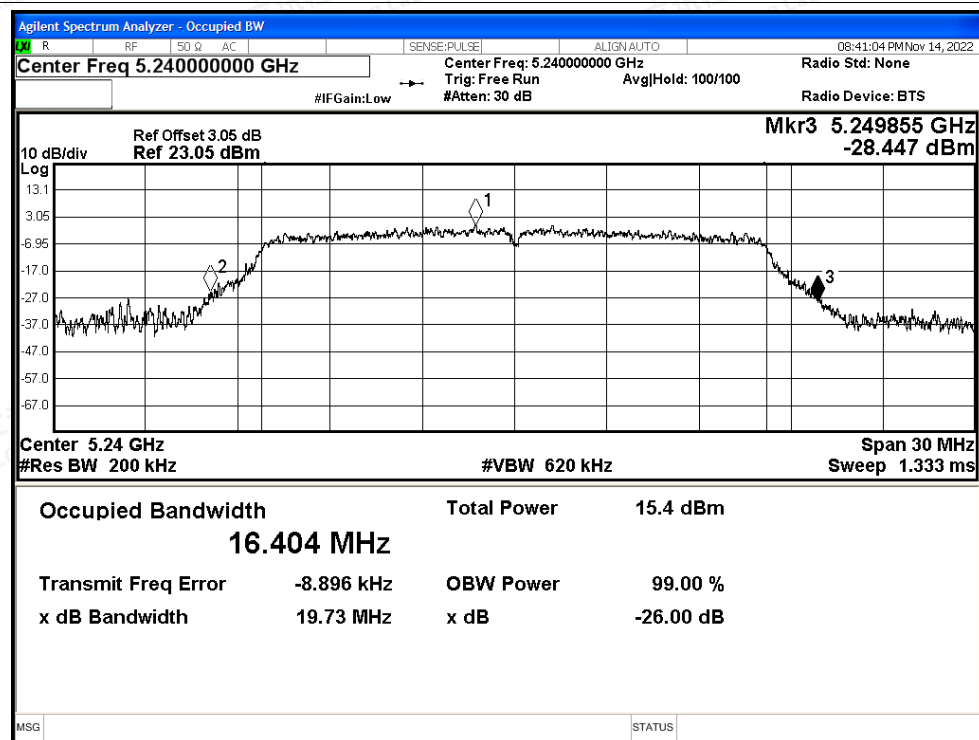


-26dB Bandwidth NVNT a 5200MHz Ant

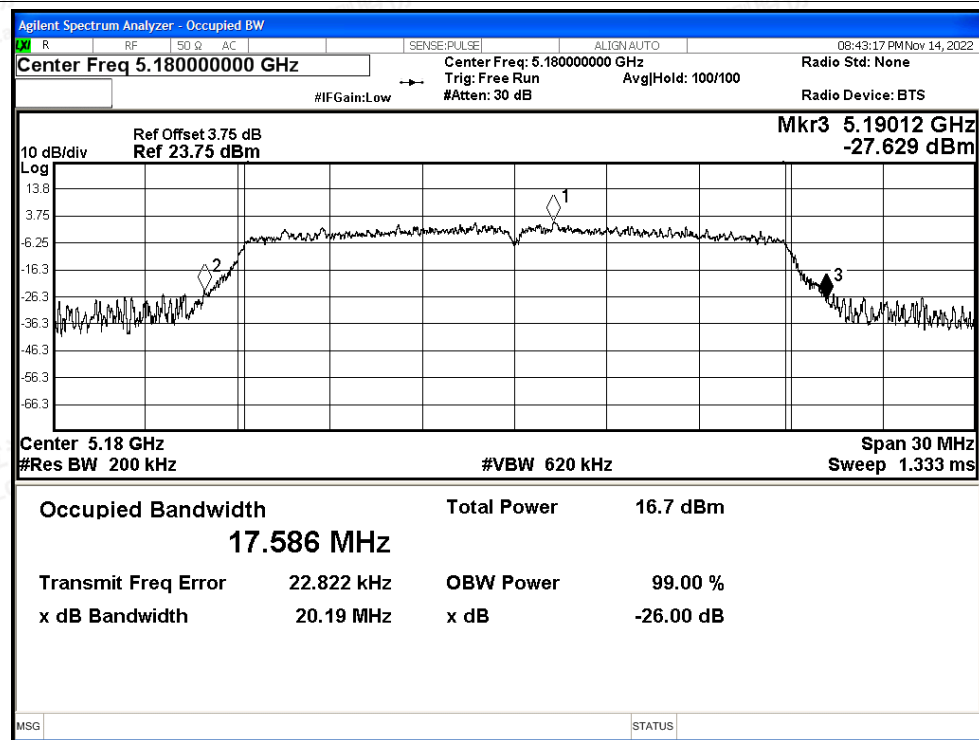




-26dB Bandwidth NVNT a 5240MHz Ant

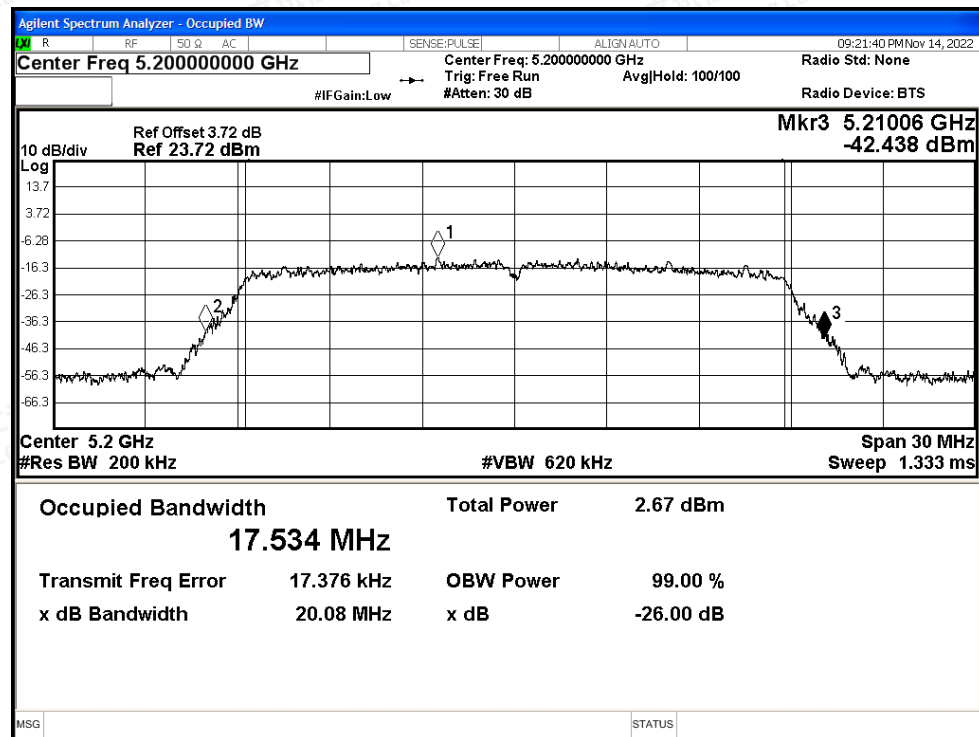


-26dB Bandwidth NVNT n20 5180MHz Ant

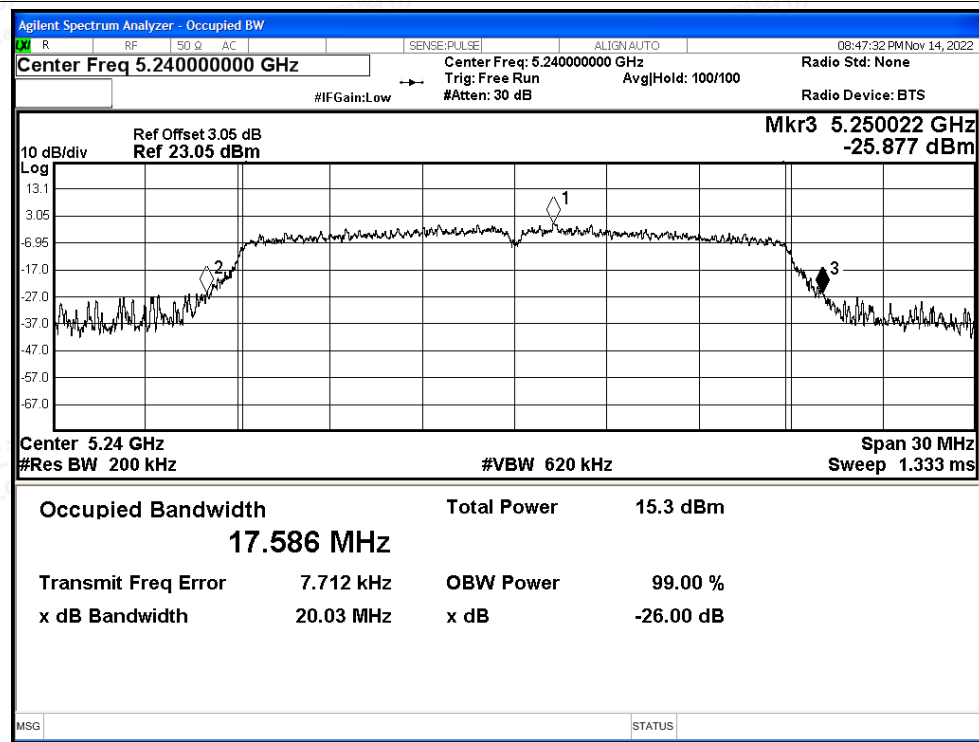




-26dB Bandwidth NVNT n20 5200MHz Ant

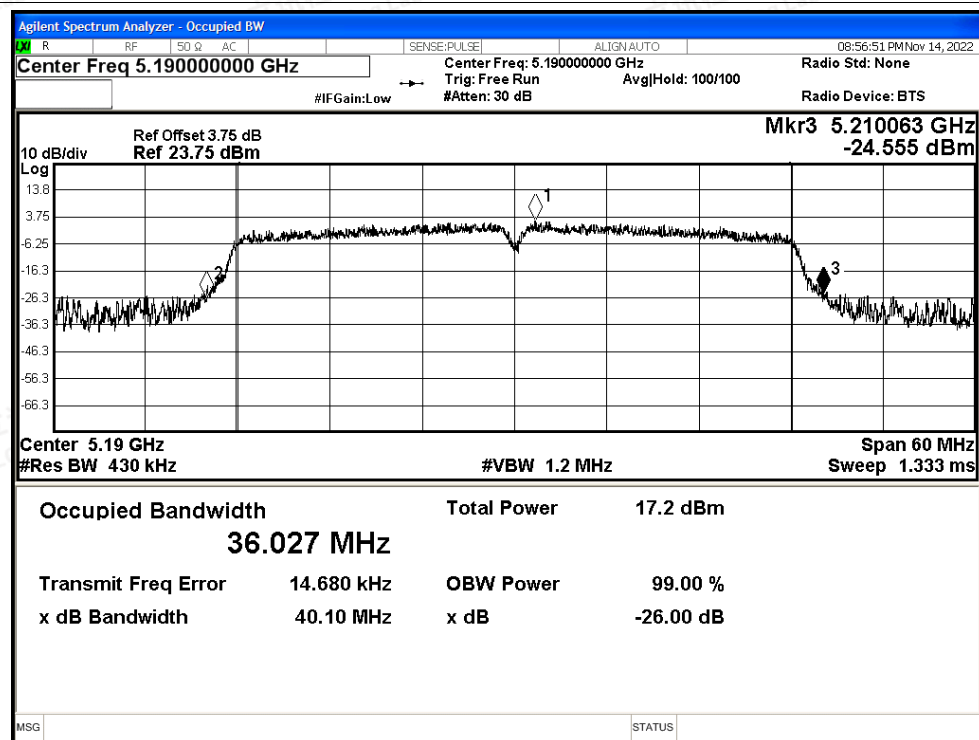


-26dB Bandwidth NVNT n20 5240MHz Ant

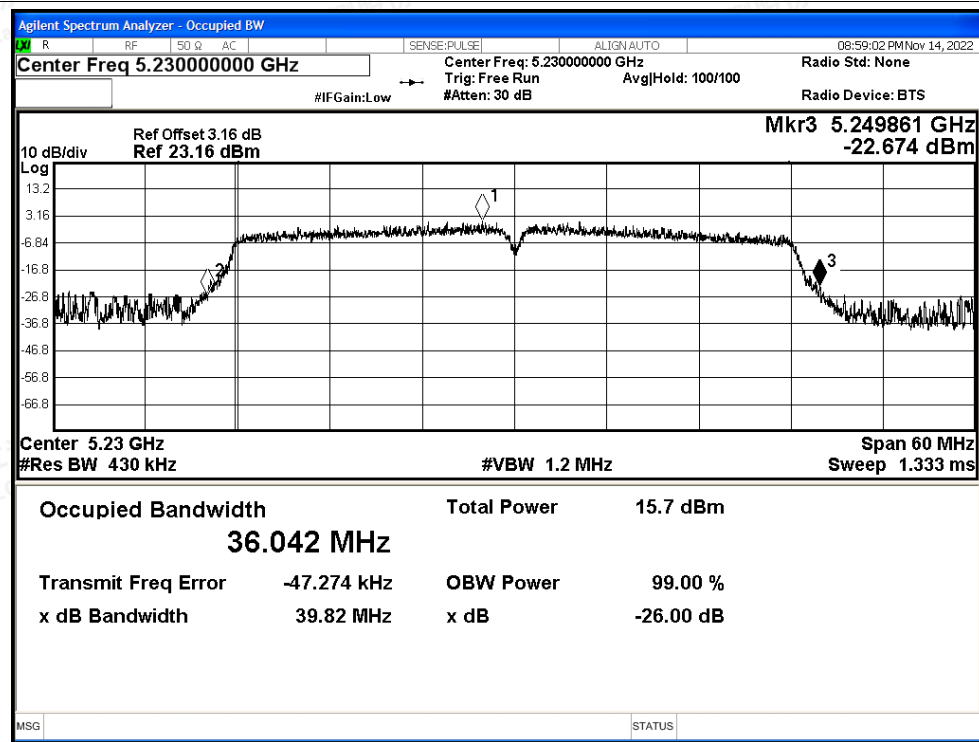




-26dB Bandwidth NVNT n40 5190MHz Ant

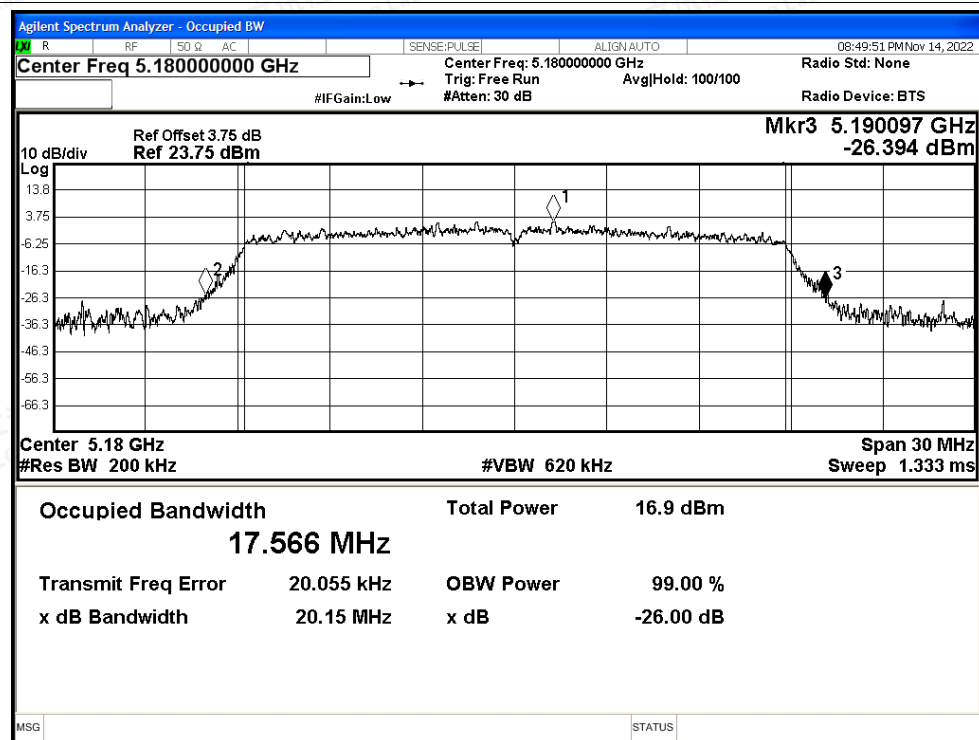


-26dB Bandwidth NVNT n40 5230MHz Ant

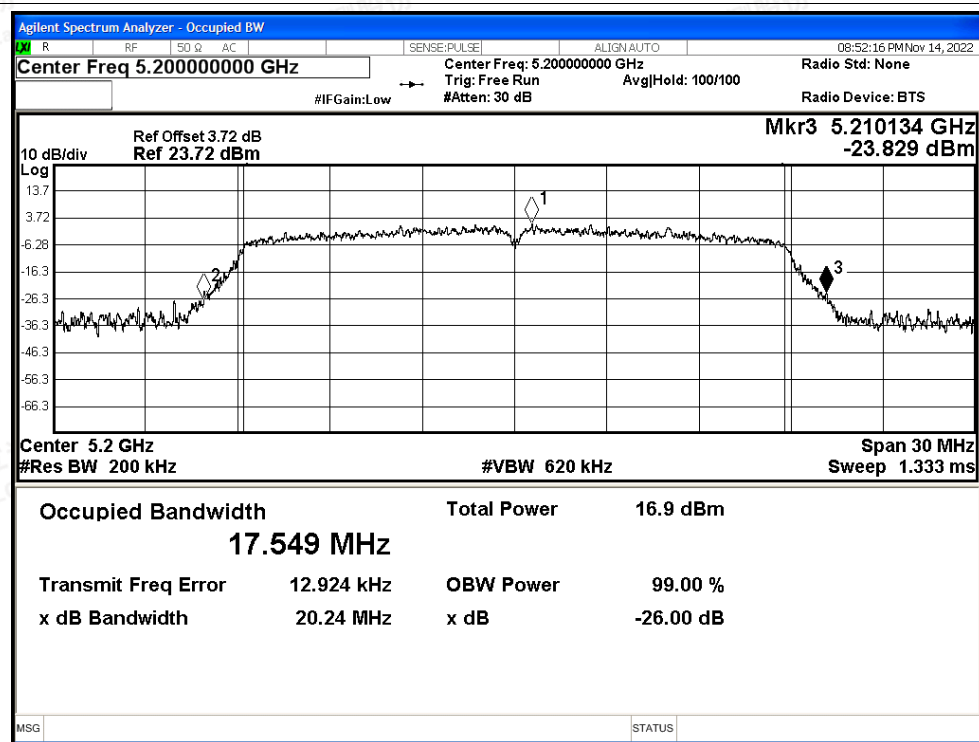




-26dB Bandwidth NVNT ac20 5180MHz Ant

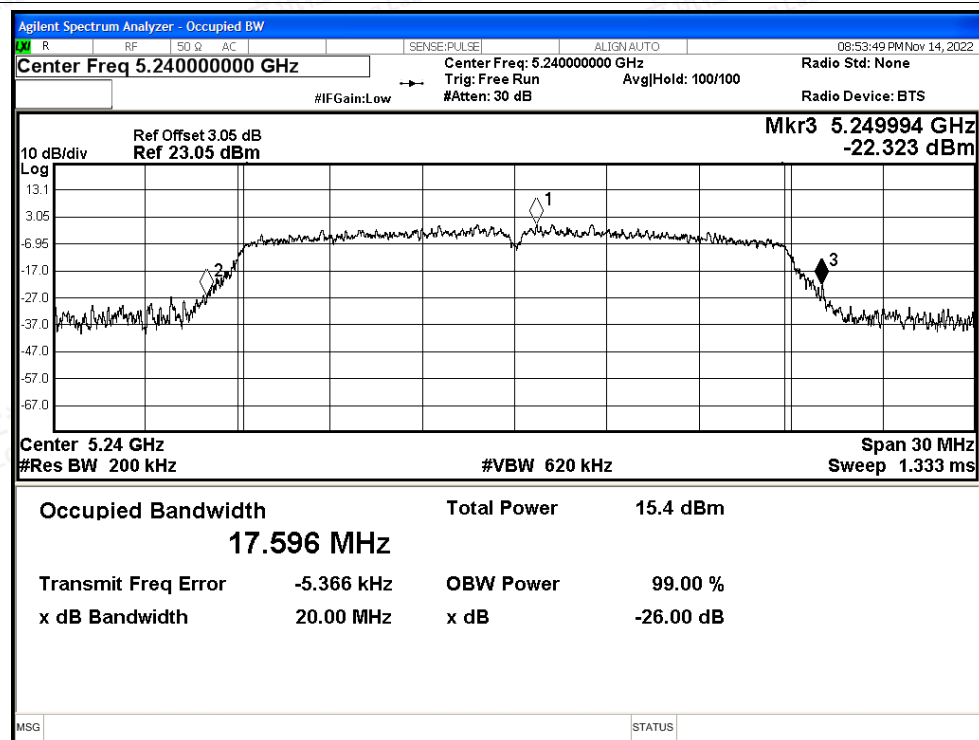


-26dB Bandwidth NVNT ac20 5200MHz Ant

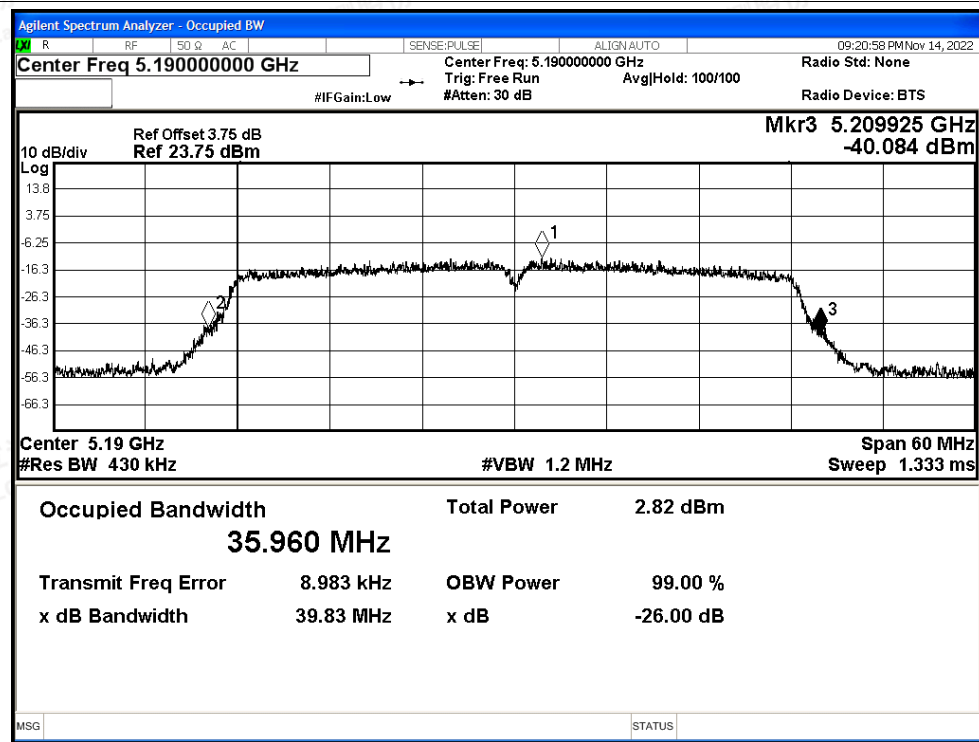




-26dB Bandwidth NVNT ac20 5240MHz Ant

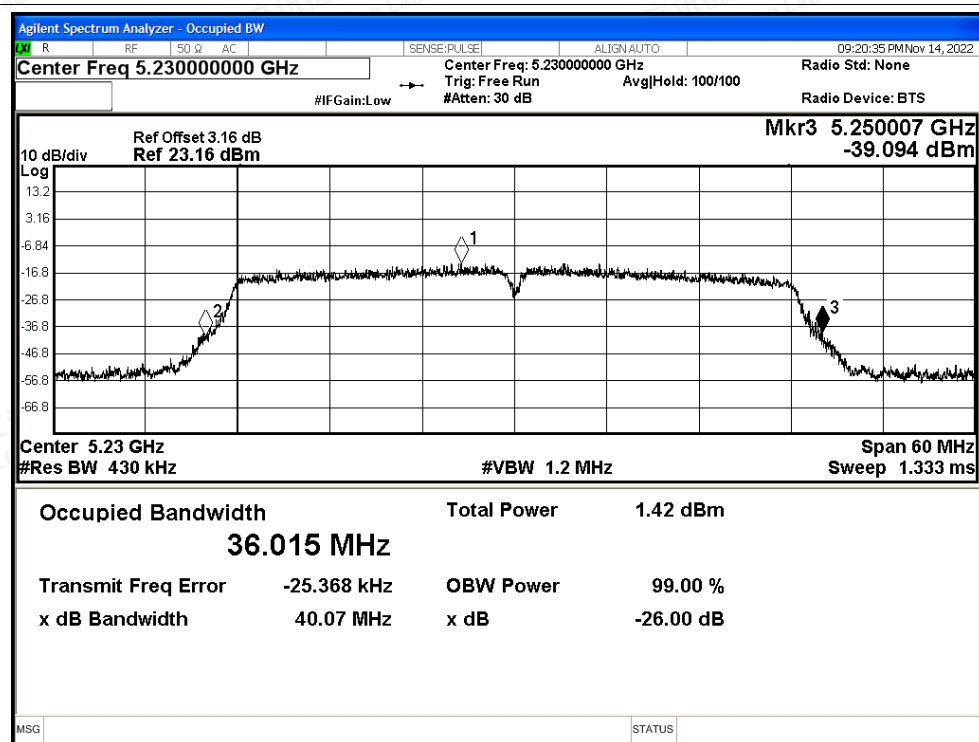


-26dB Bandwidth NVNT ac40 5190MHz Ant

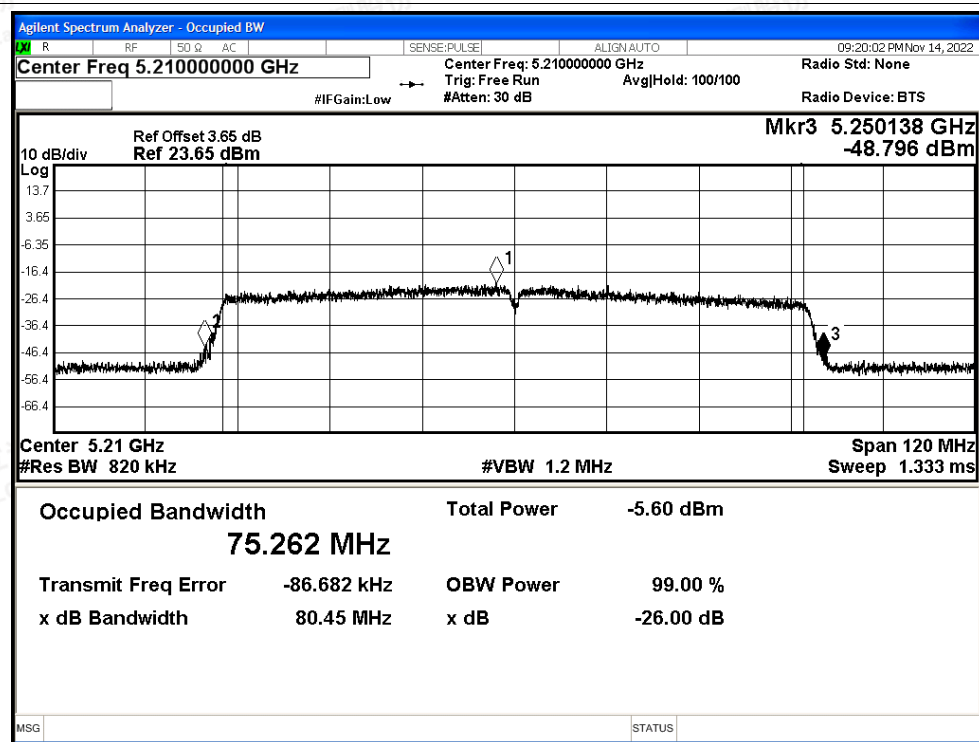




-26dB Bandwidth NVNT ac40 5230MHz Ant



-26dB Bandwidth NVNT ac80 5210MHz Ant



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D.2 Occupied Channel Bandwidth

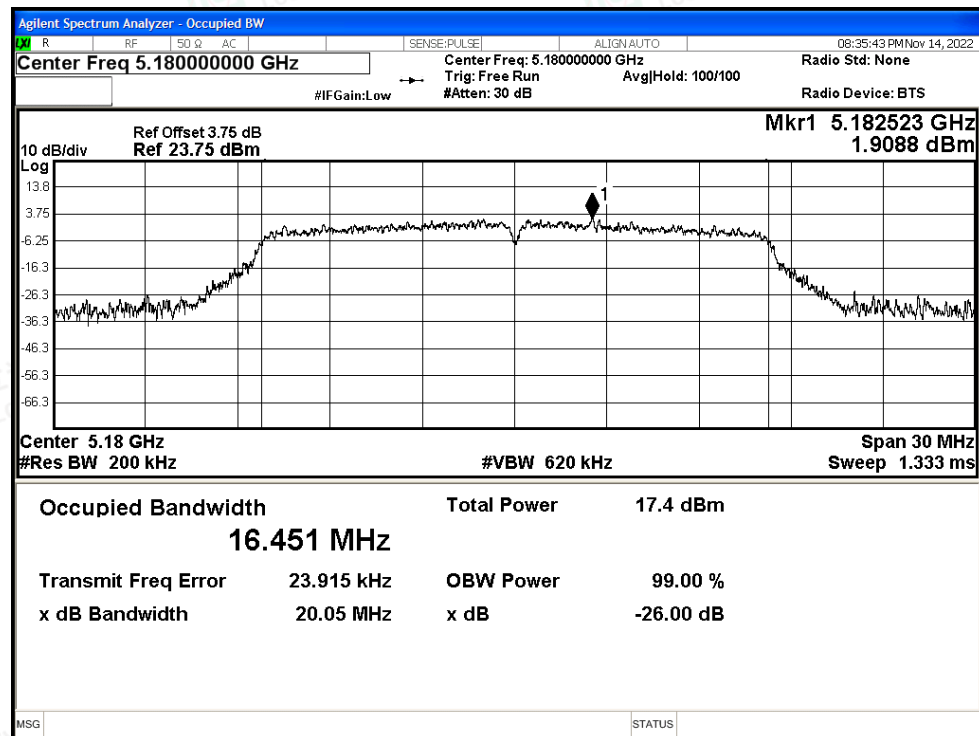
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant	16.451
NVNT	a	5200	Ant	16.397
NVNT	a	5240	Ant	16.434
NVNT	n20	5180	Ant	17.573
NVNT	n20	5200	Ant	17.59
NVNT	n20	5240	Ant	17.591
NVNT	n40	5190	Ant	35.973
NVNT	n40	5230	Ant	36.078
NVNT	ac20	5180	Ant	17.59
NVNT	ac20	5200	Ant	17.542
NVNT	ac20	5240	Ant	17.561
NVNT	ac40	5190	Ant	35.988
NVNT	ac40	5230	Ant	36.12
NVNT	ac80	5210	Ant	75.127



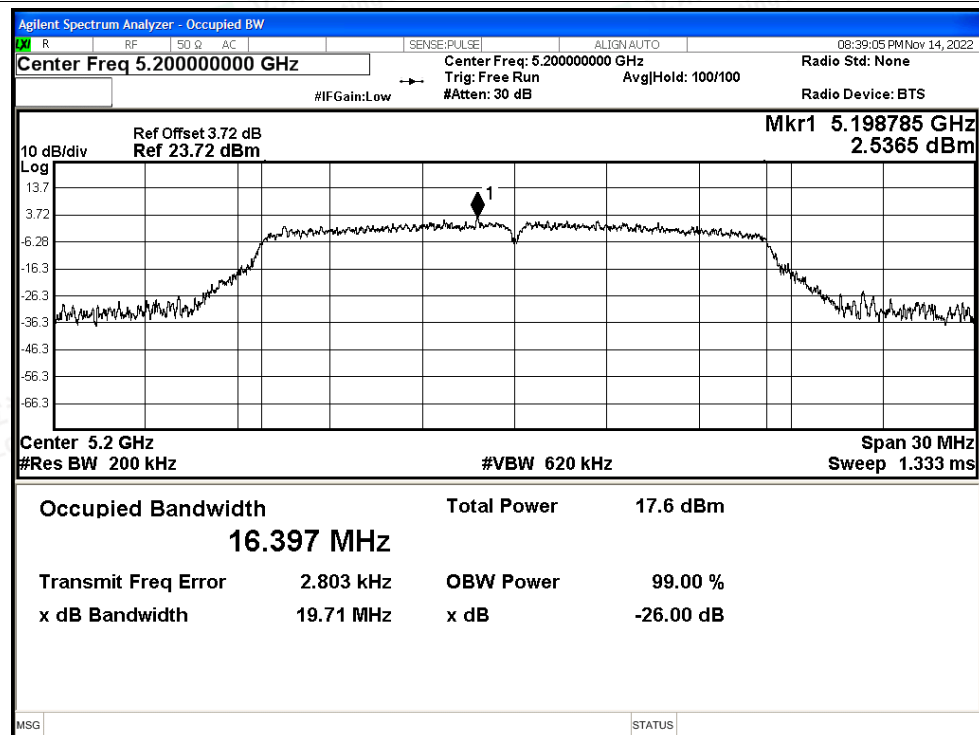


Test Graphs

OBW NVNT a 5180MHz Ant

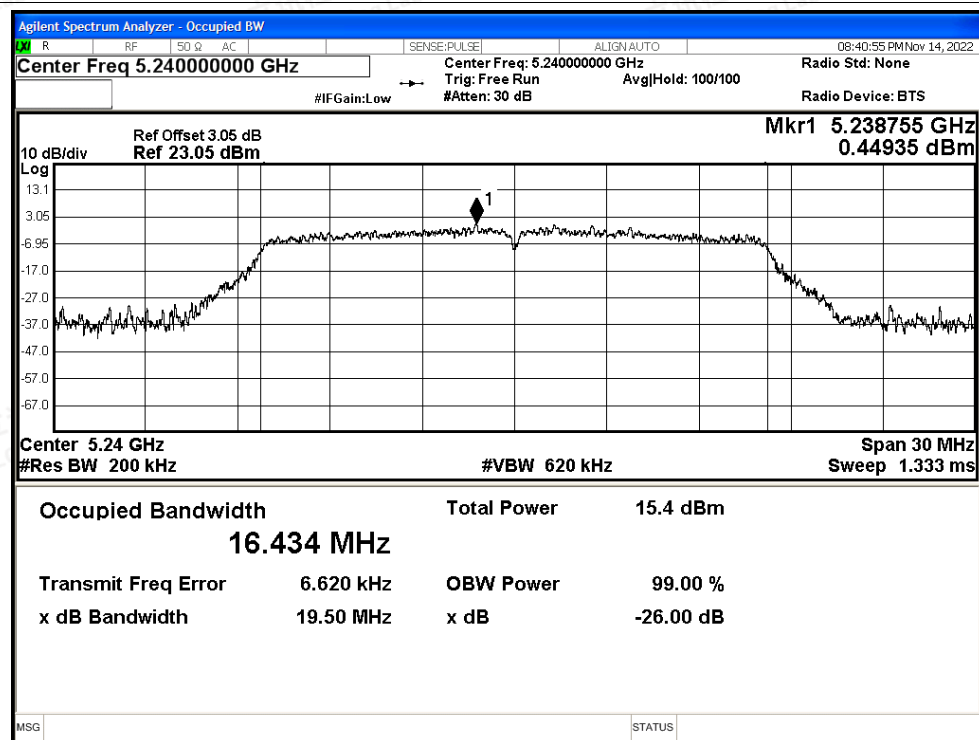


OBW NVNT a 5200MHz Ant

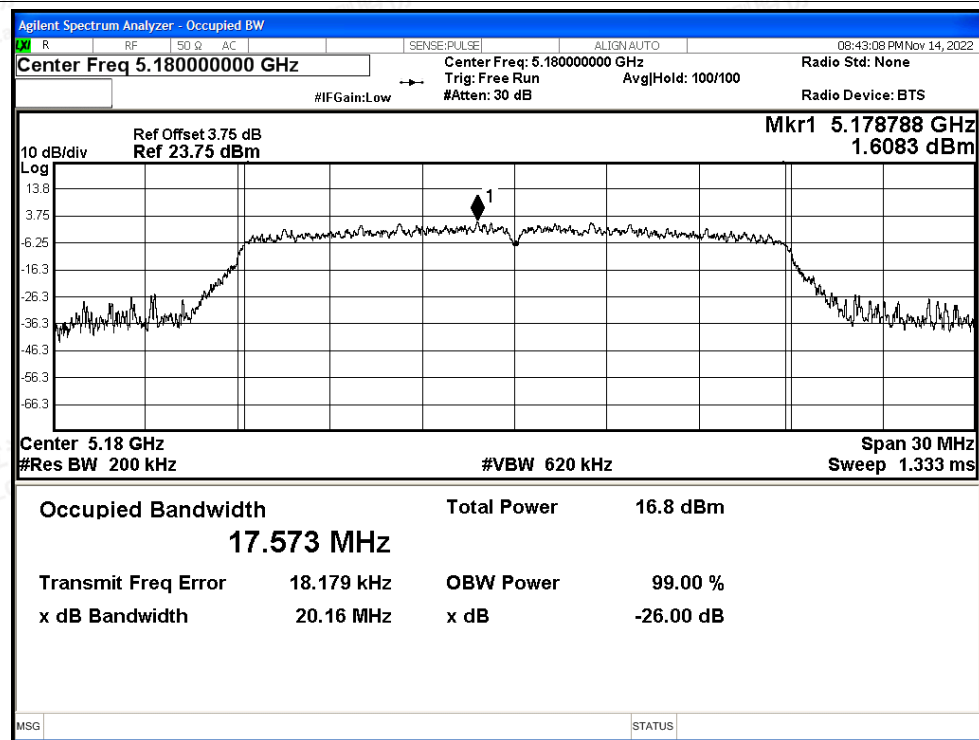




OBW NVNT a 5240MHz Ant

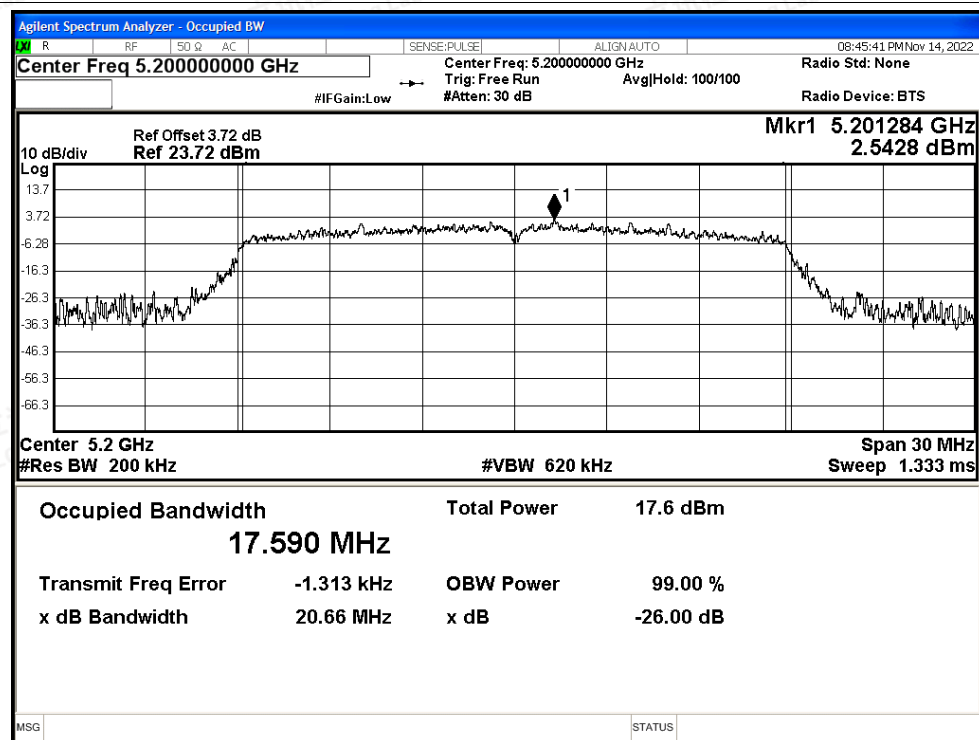


OBW NVNT n20 5180MHz Ant

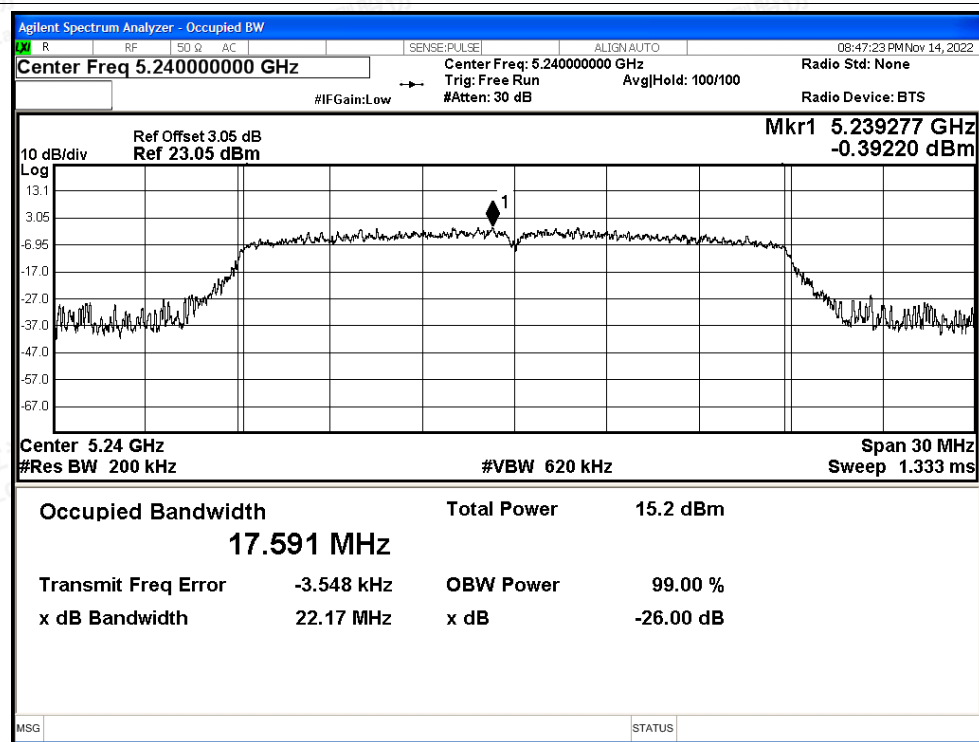




OBW NVNT n20 5200MHz Ant

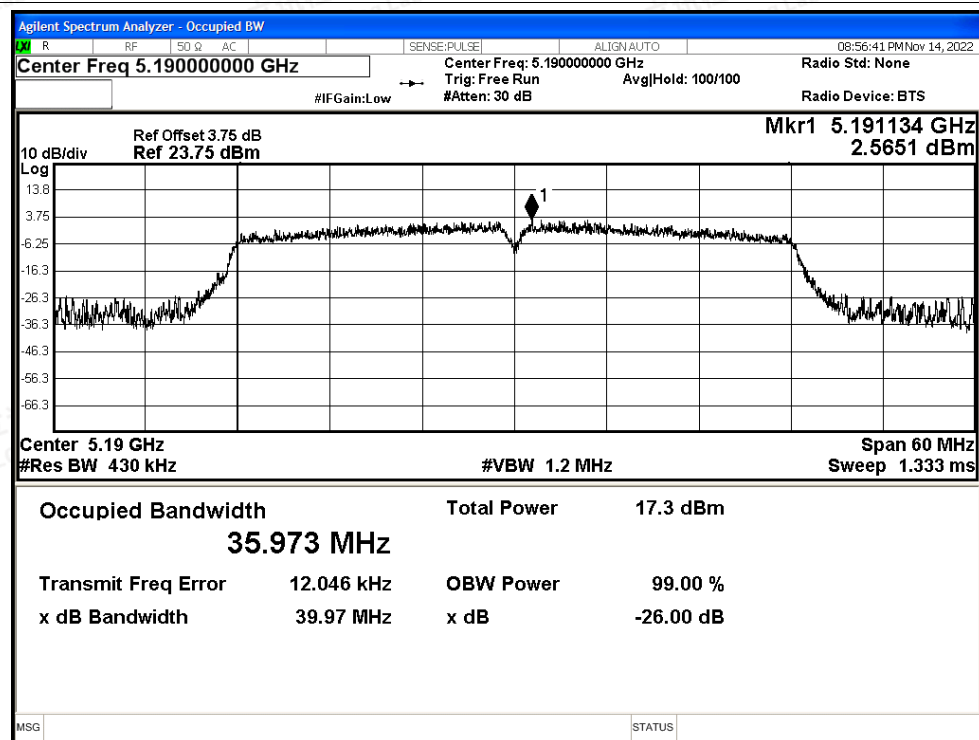


OBW NVNT n20 5240MHz Ant

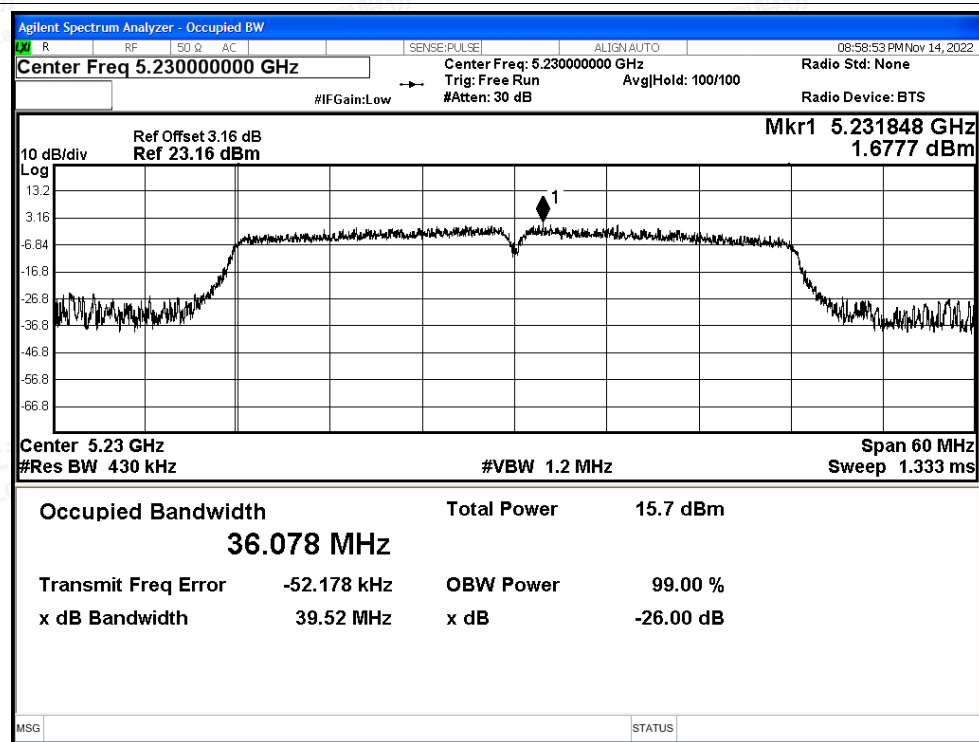




OBW NVNT n40 5190MHz Ant

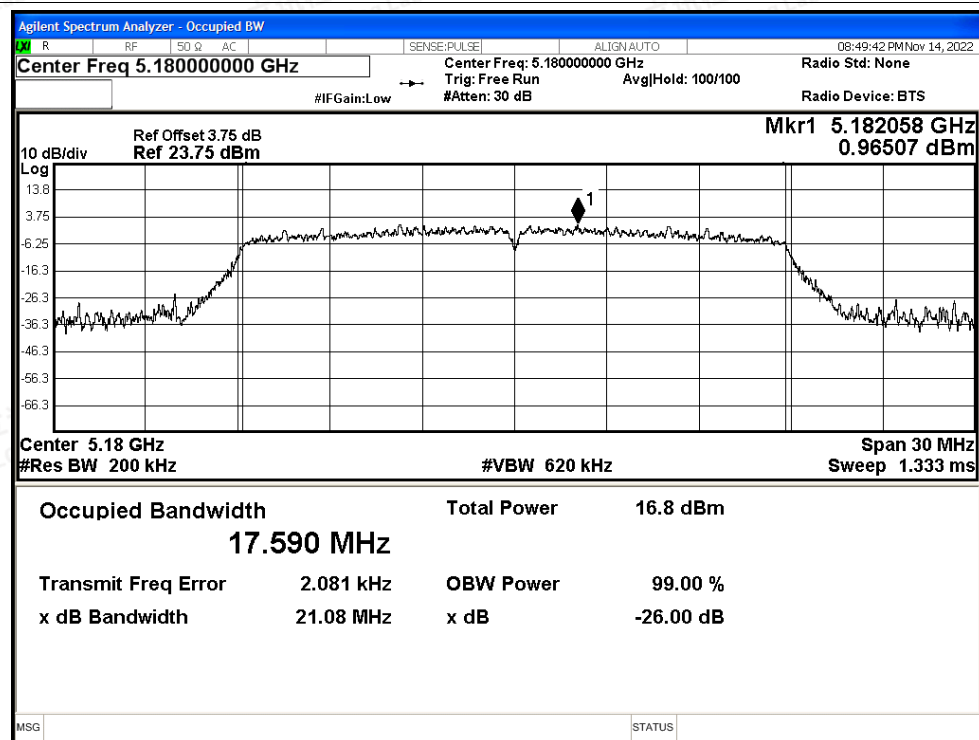


OBW NVNT n40 5230MHz Ant

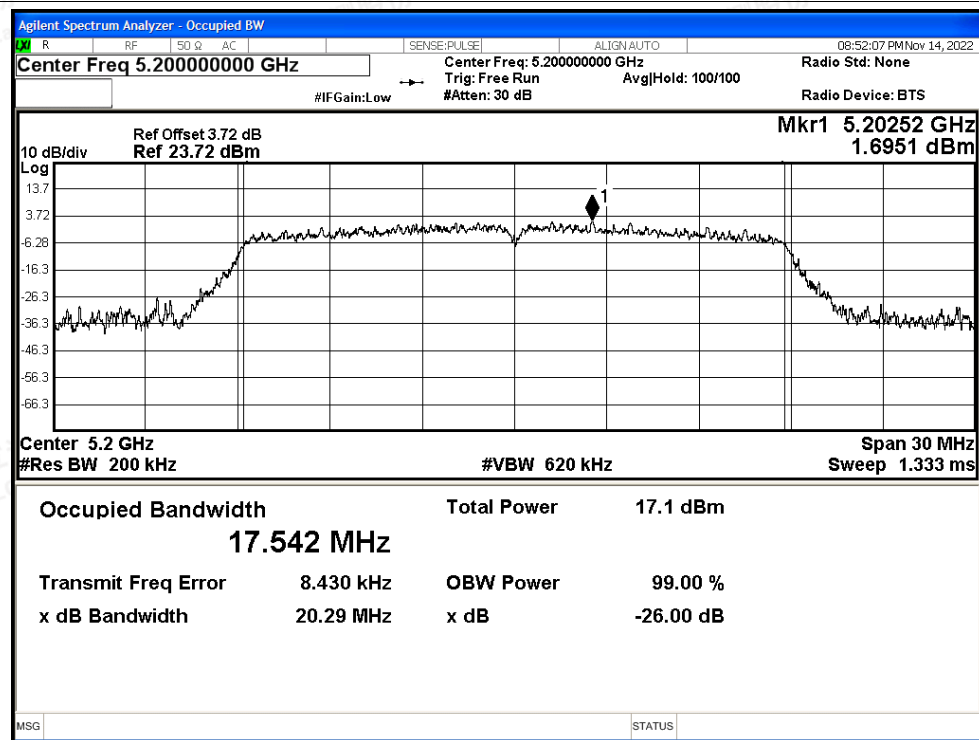




OBW NVNT ac20 5180MHz Ant

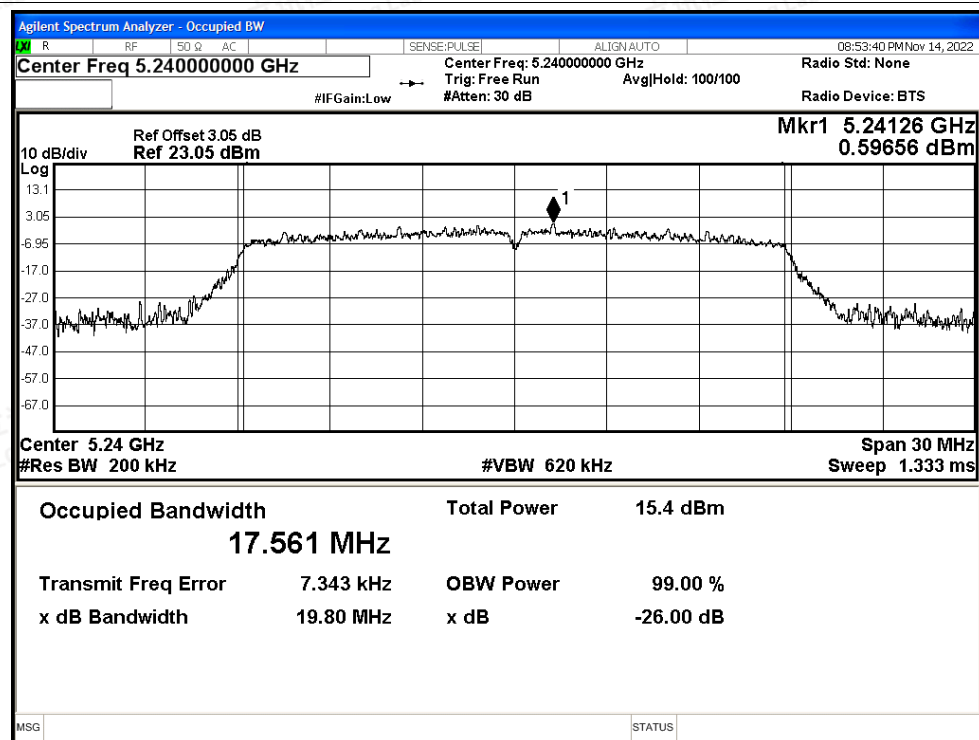


OBW NVNT ac20 5200MHz Ant

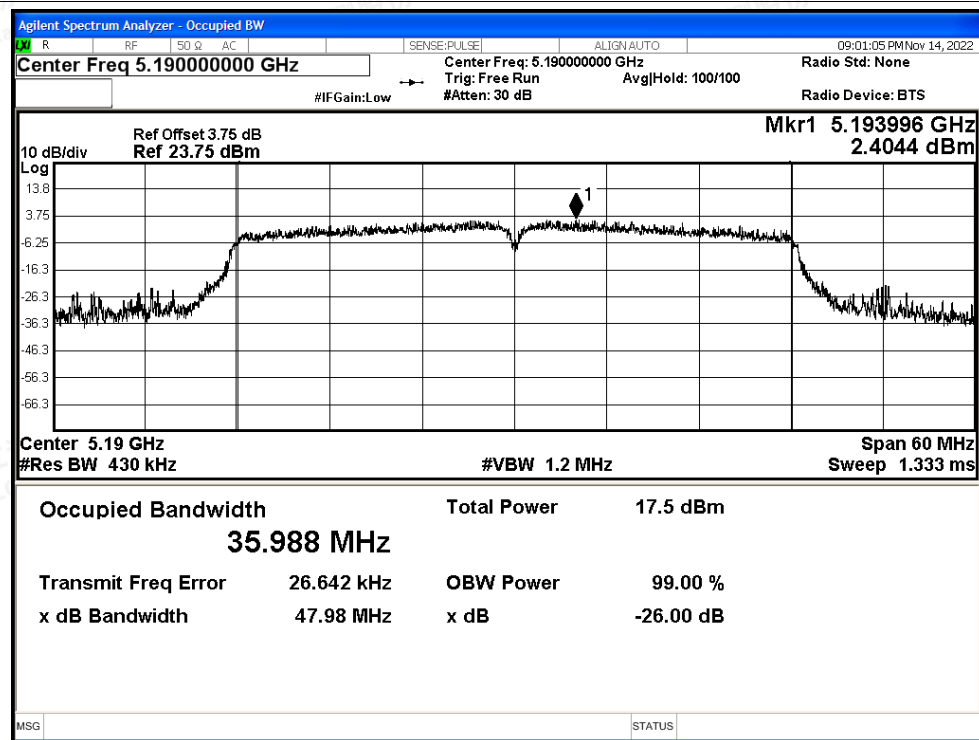




OBW NVNT ac20 5240MHz Ant



OBW NVNT ac40 5190MHz Ant



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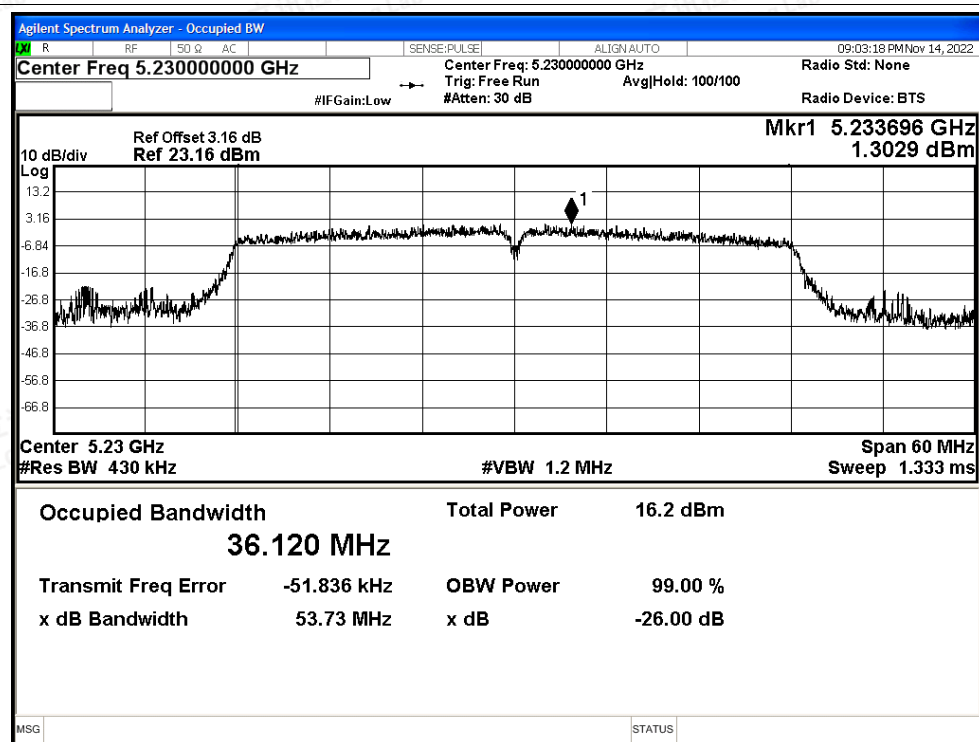
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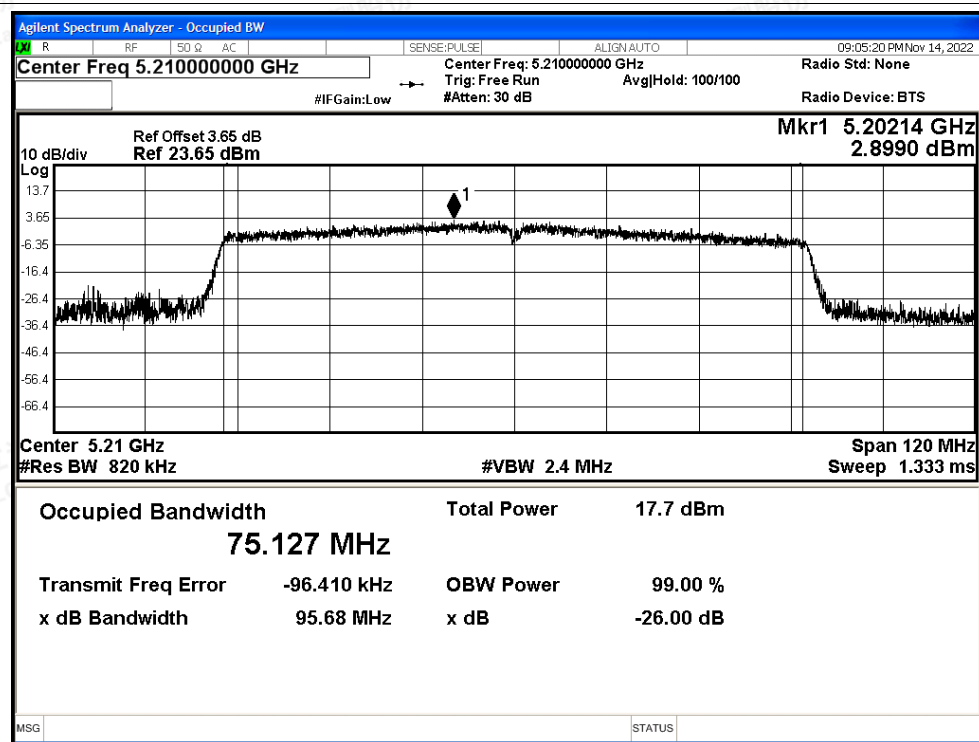
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OBW NVNT ac40 5230MHz Ant



OBW NVNT ac80 5210MHz Ant



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D.3 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant	11.84	0.13	11.97	24	Pass
NVNT	a	5200	Ant	12.03	0.13	12.16	24	Pass
NVNT	a	5240	Ant	11.62	0.13	11.75	24	Pass
NVNT	n20	5180	Ant	11.1	0.17	11.27	24	Pass
NVNT	n20	5200	Ant	11.96	0.17	12.13	24	Pass
NVNT	n20	5240	Ant	11.95	0.17	12.12	24	Pass
NVNT	n40	5190	Ant	11.15	0.31	11.46	24	Pass
NVNT	n40	5230	Ant	11.64	0.32	11.96	24	Pass
NVNT	ac20	5180	Ant	11.28	0.17	11.45	24	Pass
NVNT	ac20	5200	Ant	11.39	0.16	11.55	24	Pass
NVNT	ac20	5240	Ant	11.85	0.17	12.02	24	Pass
NVNT	ac40	5190	Ant	11.44	0.32	11.76	24	Pass
NVNT	ac40	5230	Ant	11.23	0.32	11.55	24	Pass
NVNT	ac80	5210	Ant	11.76	0.6	12.36	24	Pass



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D.4 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	Ant	-0.03	0.13	0.1	11	Pass
NVNT	a	5200	Ant	0.02	0.13	0.15	11	Pass
NVNT	a	5240	Ant	-0.2	0.13	-0.07	11	Pass
NVNT	n20	5180	Ant	-1.07	0.17	-0.9	11	Pass
NVNT	n20	5200	Ant	0.56	0.17	0.73	11	Pass
NVNT	n20	5240	Ant	-0.5	0.17	-0.33	11	Pass
NVNT	n40	5190	Ant	-3.95	0.31	-3.64	11	Pass
NVNT	n40	5230	Ant	-3.91	0.32	-3.59	11	Pass
NVNT	ac20	5180	Ant	-0.65	0.17	-0.48	11	Pass
NVNT	ac20	5200	Ant	-0.71	0.16	-0.55	11	Pass
NVNT	ac20	5240	Ant	-0.7	0.17	-0.53	11	Pass
NVNT	ac40	5190	Ant	-4.52	0.32	-4.2	11	Pass
NVNT	ac40	5230	Ant	-6.27	0.32	-5.95	11	Pass
NVNT	ac80	5210	Ant	-10.41	0.6	-9.81	11	Pass

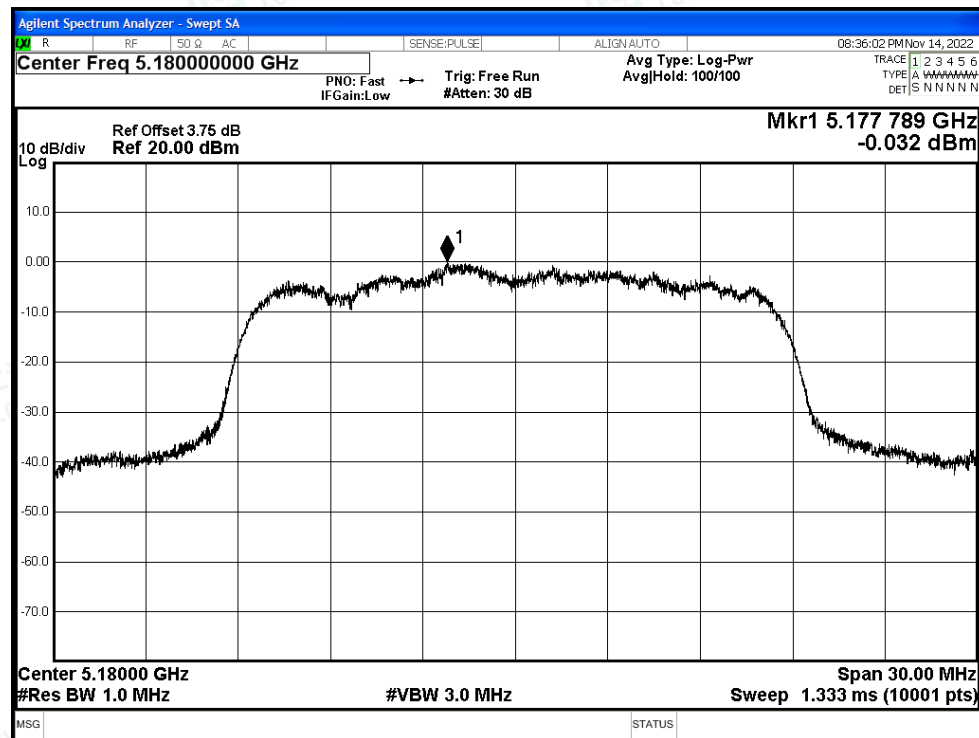


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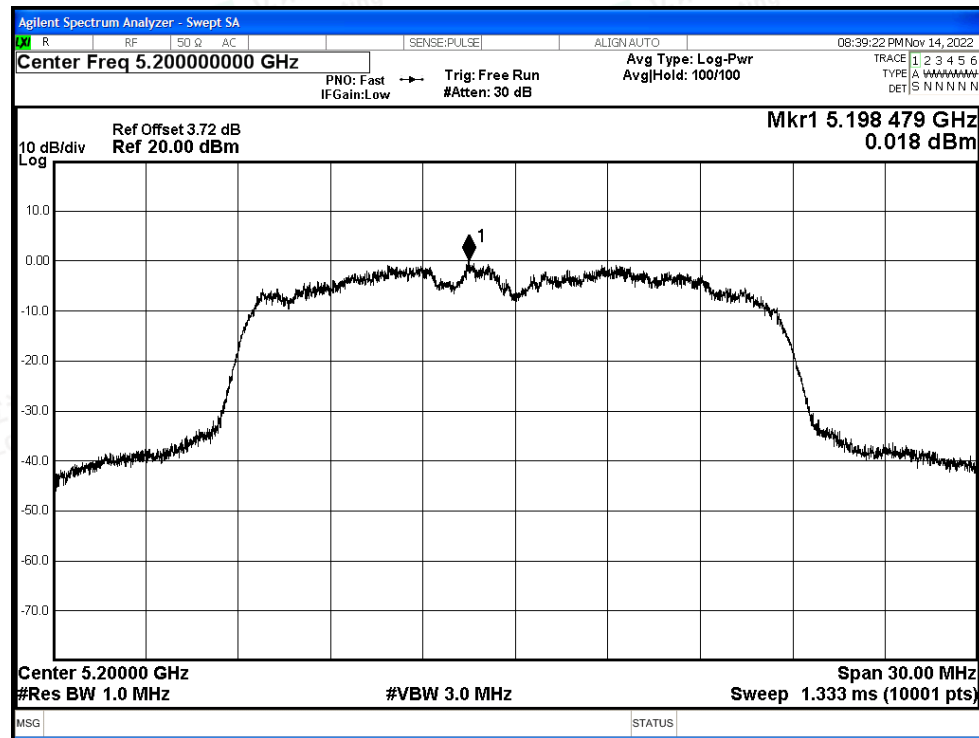


Test Graphs

PSD NVNT a 5180MHz Ant

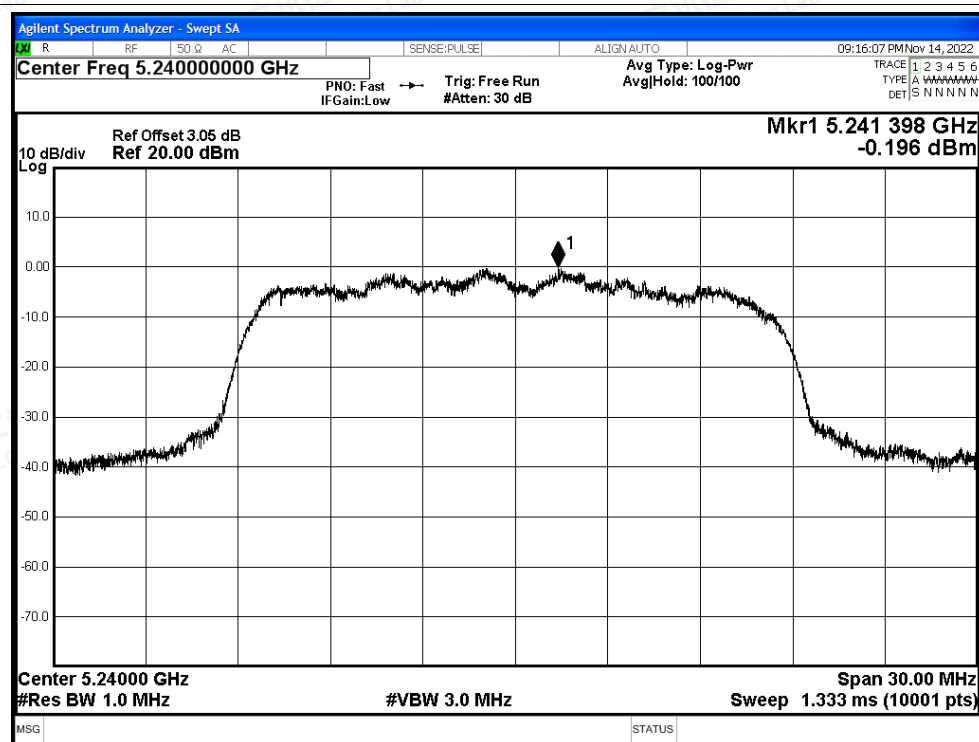


PSD NVNT a 5200MHz Ant

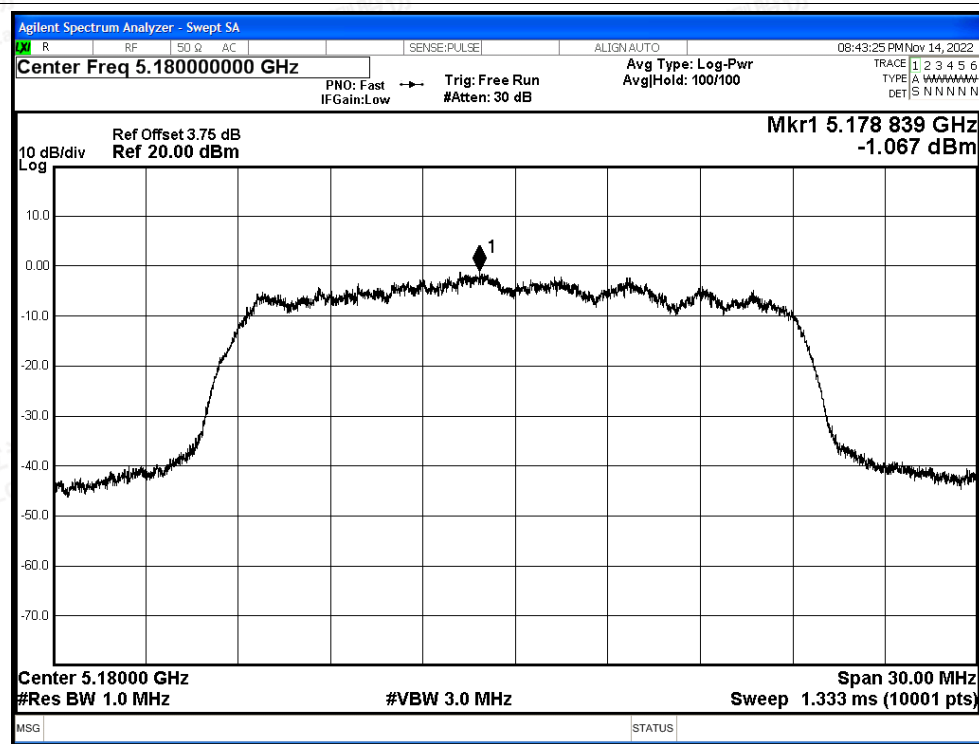


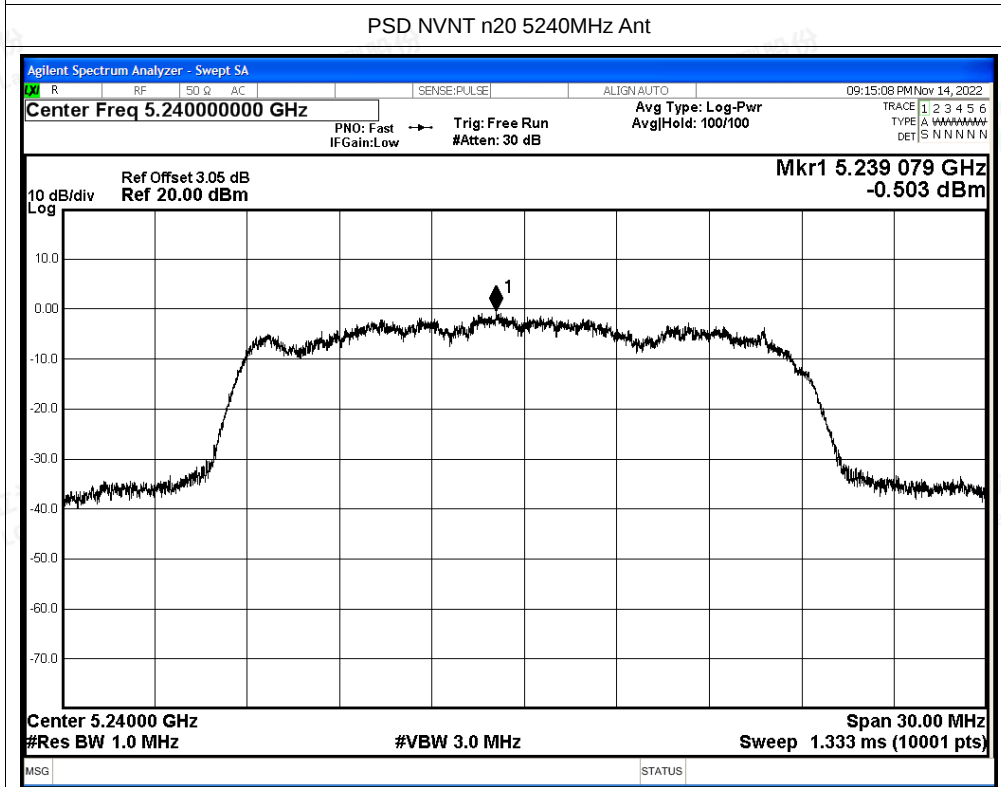
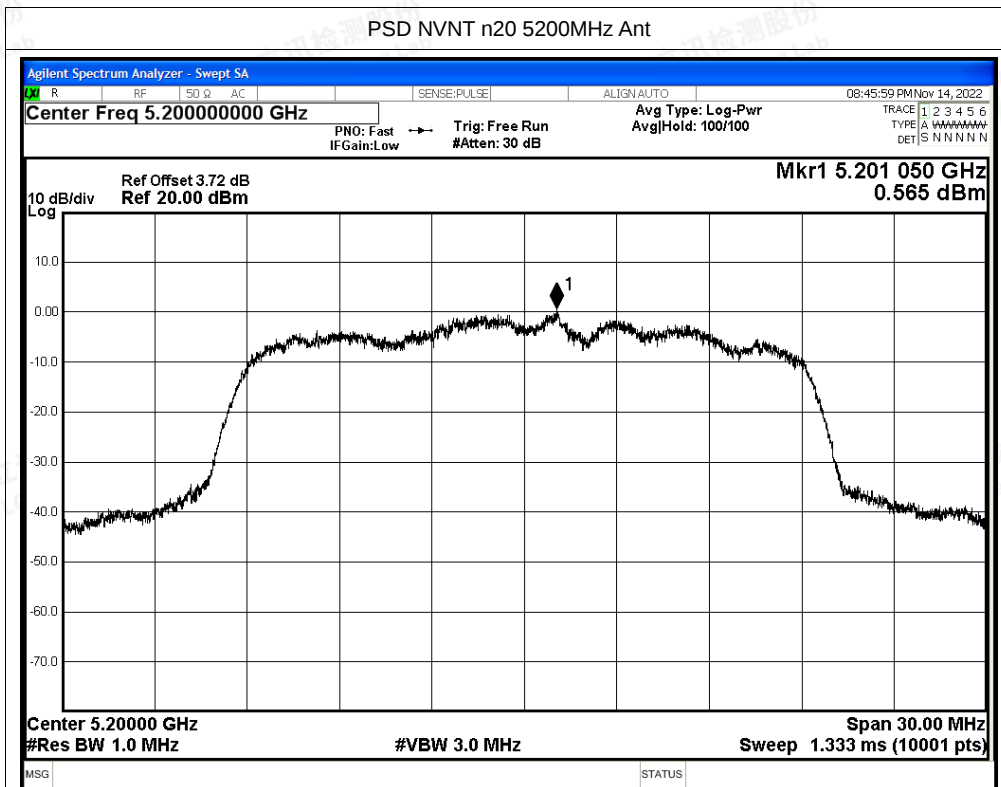


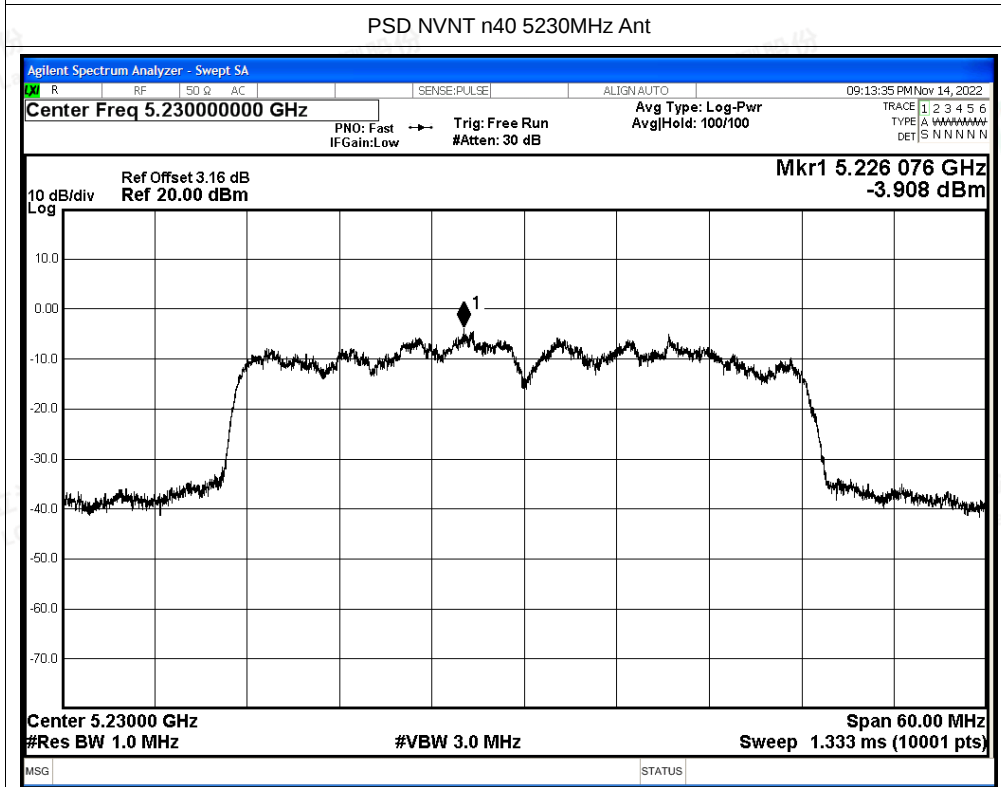
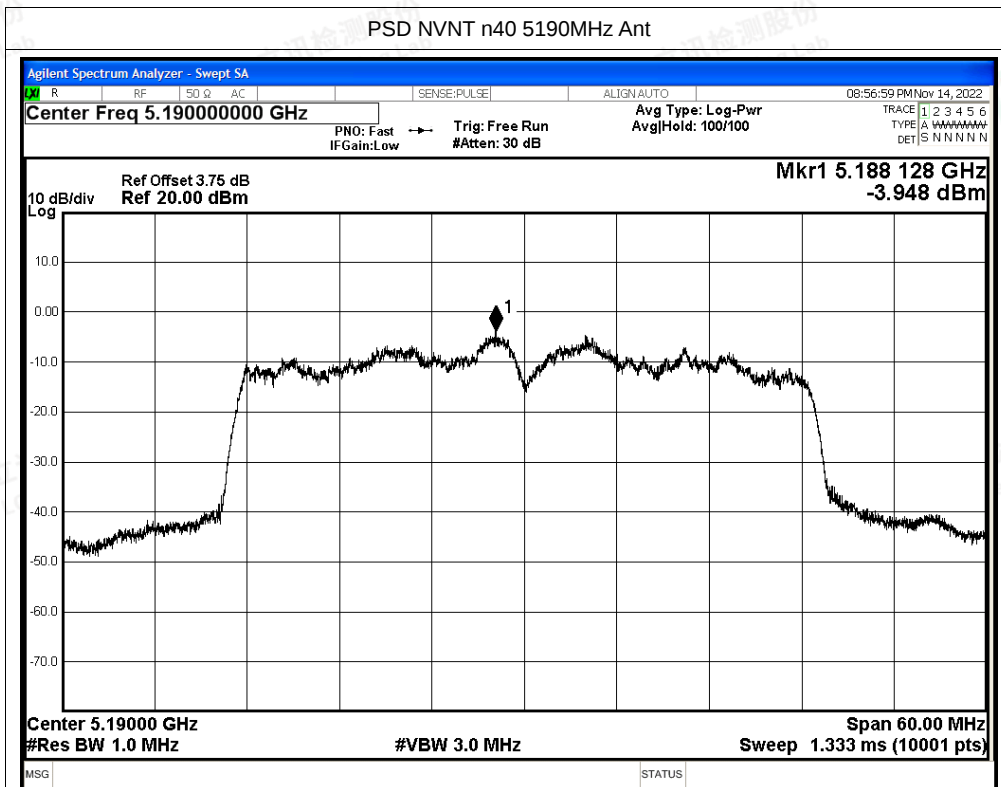
PSD NVNT a 5240MHz Ant

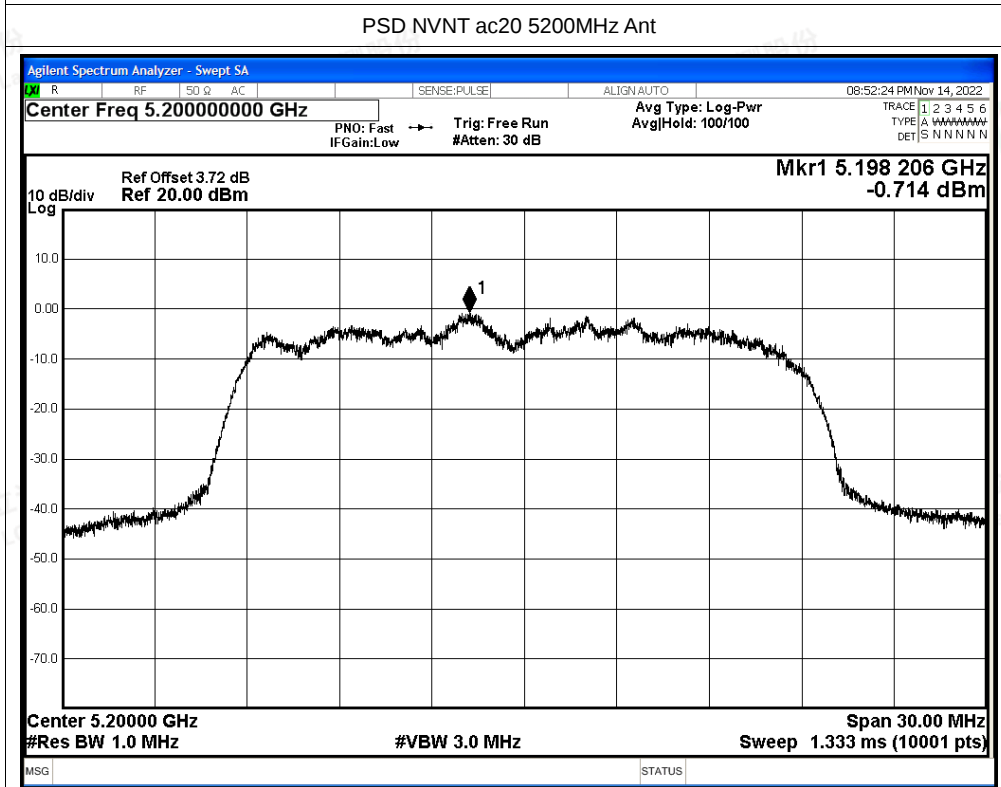
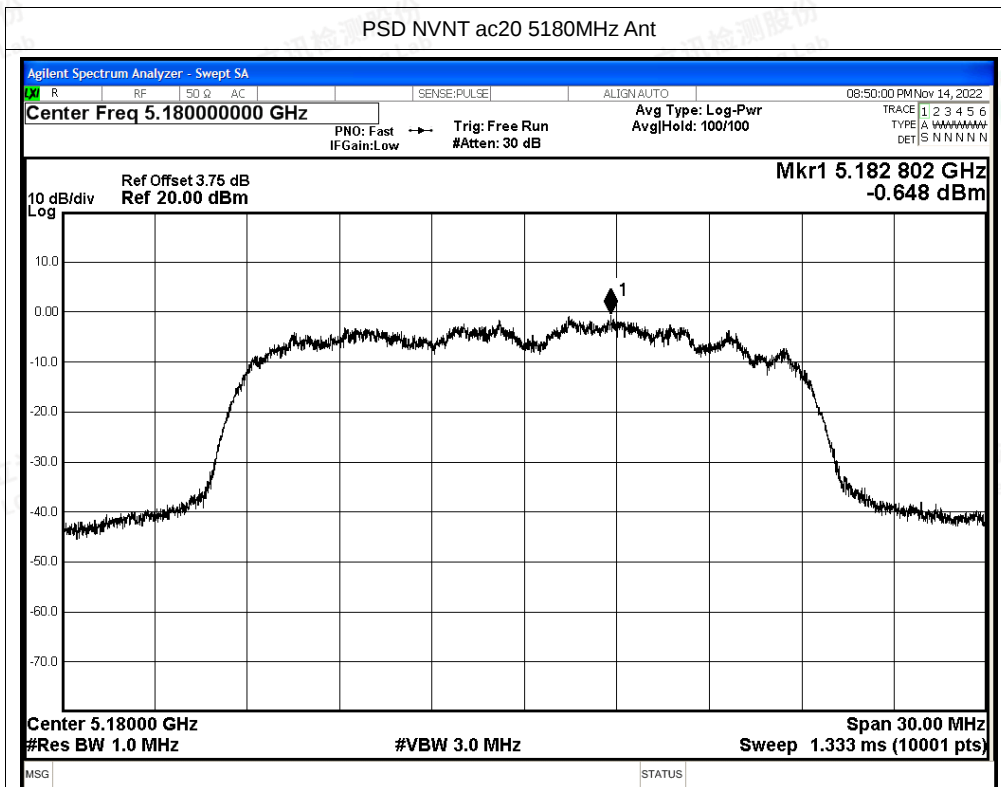


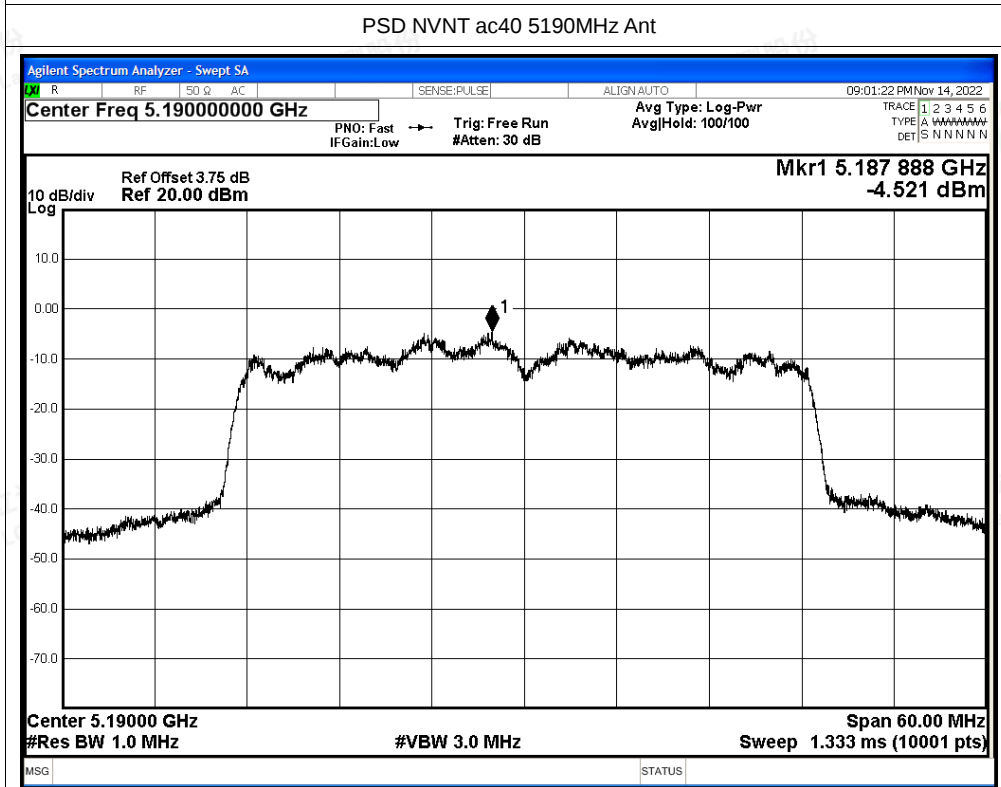
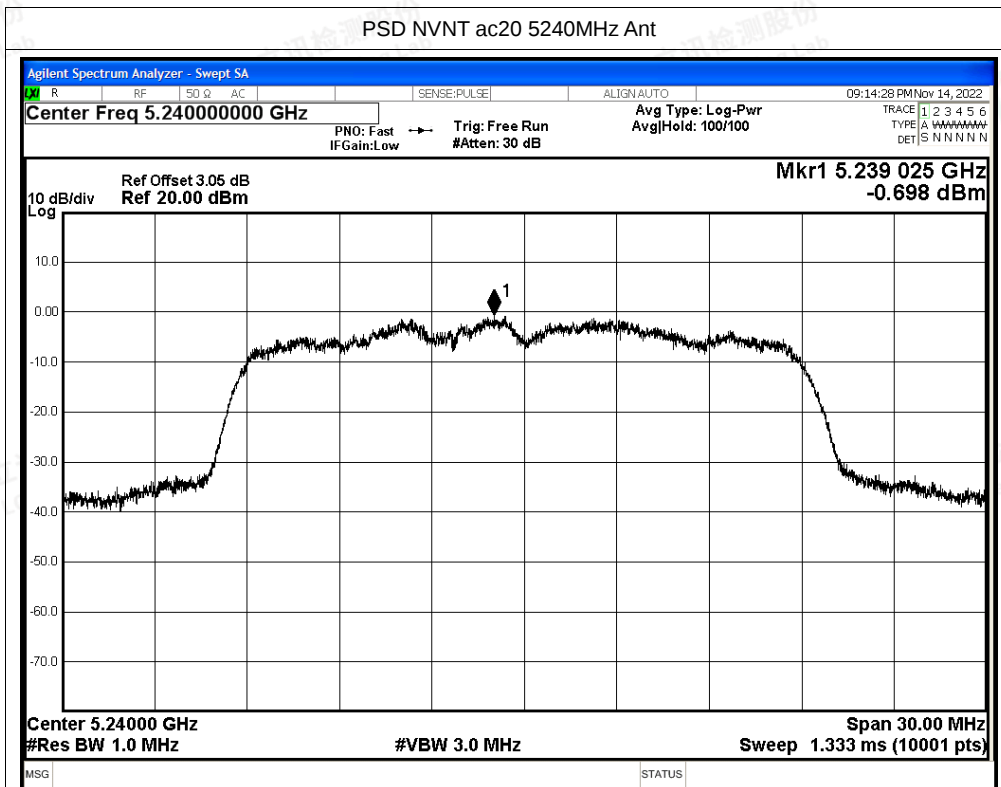
PSD NVNT n20 5180MHz Ant

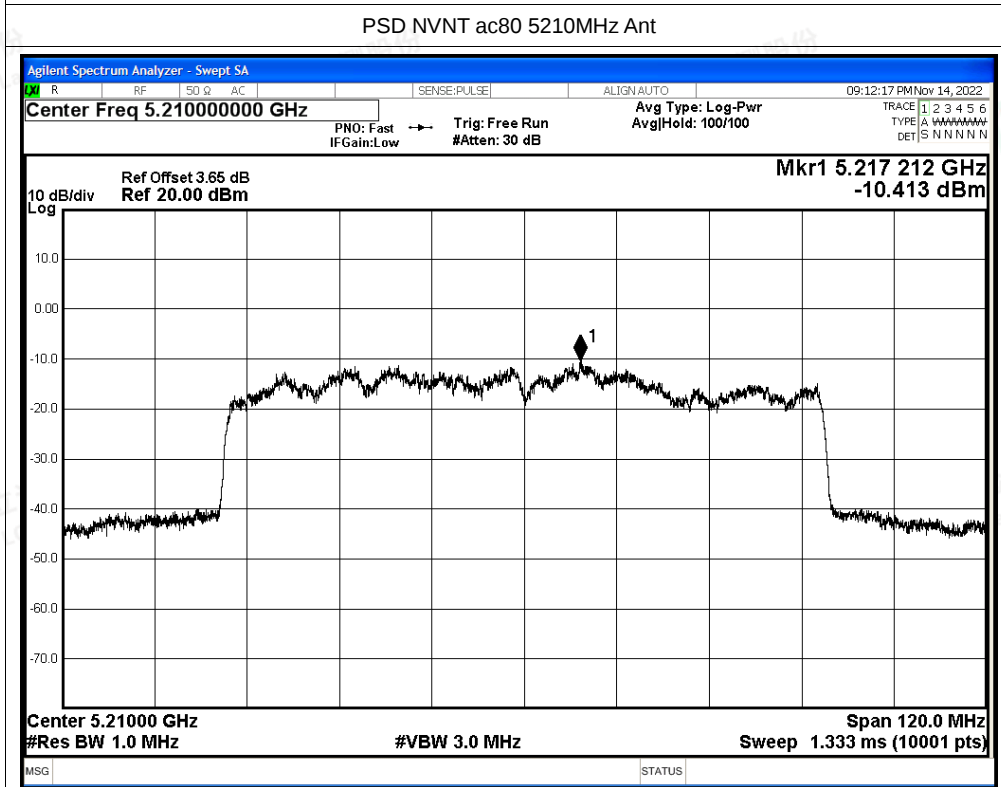
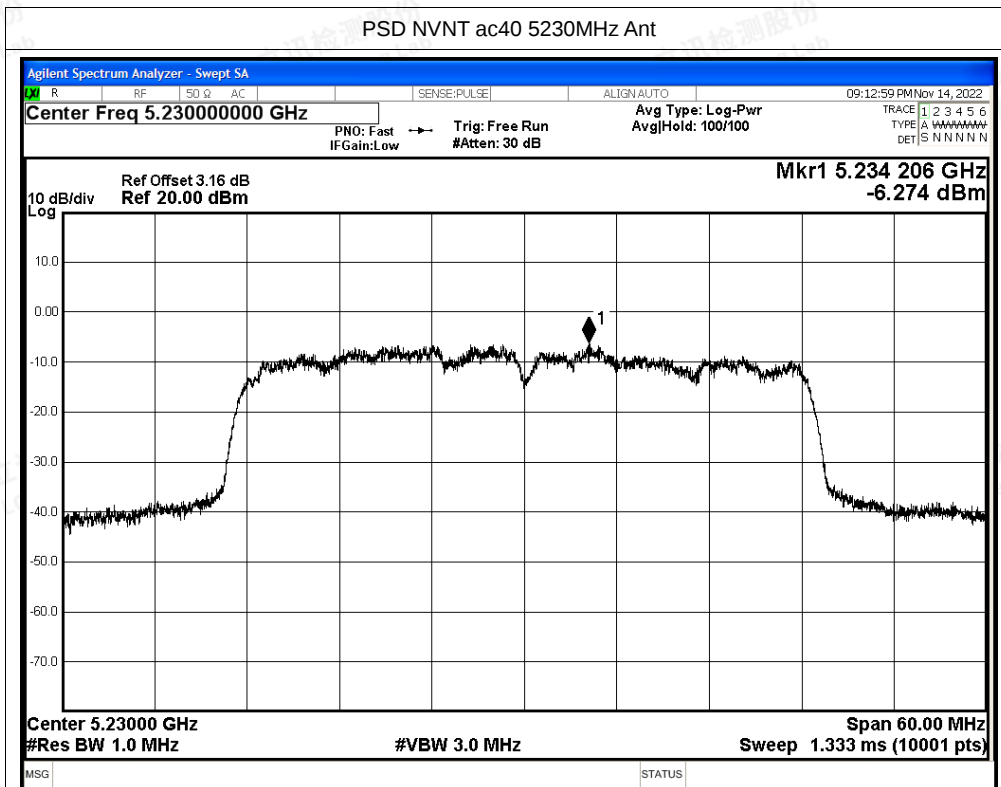














D.5 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant	4500	-51.33	4.2	48.10	Peak	74	Pass
NVNT	a	5180	Ant	4500	-59.77	4.2	39.66	Average	54	Pass
NVNT	a	5180	Ant	5148.2	-36.2	4.2	63.23	Peak	74	Pass
NVNT	a	5180	Ant	5149.6	-50.04	4.2	49.39	Average	54	Pass
NVNT	a	5180	Ant	5150	-38.29	4.2	61.14	Peak	74	Pass
NVNT	a	5180	Ant	5150	-50.16	4.2	49.27	Average	54	Pass
NVNT	a	5240	Ant	5350	-48.93	4.2	50.50	Peak	74	Pass
NVNT	a	5240	Ant	5350	-58.39	4.2	41.04	Average	54	Pass
NVNT	a	5240	Ant	5365.92	-45.53	4.2	53.90	Peak	74	Pass
NVNT	a	5240	Ant	5362.08	-58.11	4.2	41.32	Average	54	Pass
NVNT	a	5240	Ant	5460	-51.47	4.2	47.96	Peak	74	Pass
NVNT	a	5240	Ant	5460	-59.25	4.2	40.18	Average	54	Pass
NVNT	n20	5180	Ant	4500	-49.2	4.2	50.23	Peak	74	Pass
NVNT	n20	5180	Ant	4500	-59.56	4.2	39.87	Average	54	Pass
NVNT	n20	5180	Ant	5148.9	-38.65	4.2	60.78	Peak	74	Pass
NVNT	n20	5180	Ant	5149.6	-52.06	4.2	47.37	Average	54	Pass
NVNT	n20	5180	Ant	5150	-39.24	4.2	60.19	Peak	74	Pass
NVNT	n20	5180	Ant	5150	-51.91	4.2	47.52	Average	54	Pass
NVNT	n20	5240	Ant	5350	-48.63	4.2	50.80	Peak	74	Pass
NVNT	n20	5240	Ant	5350	-58.22	4.2	41.21	Average	54	Pass
NVNT	n20	5240	Ant	5417.28	-46.16	4.2	53.27	Peak	74	Pass
NVNT	n20	5240	Ant	5351.76	-58.11	4.2	41.32	Average	54	Pass
NVNT	n20	5240	Ant	5460	-49.13	4.2	50.30	Peak	74	Pass
NVNT	n20	5240	Ant	5460	-59.29	4.2	40.14	Average	54	Pass
NVNT	n40	5190	Ant	4500	-50.36	4.2	49.07	Peak	74	Pass
NVNT	n40	5190	Ant	4500	-59.25	4.2	40.18	Average	54	Pass
NVNT	n40	5190	Ant	5148.24	-31.35	4.2	68.08	Peak	74	Pass
NVNT	n40	5190	Ant	5149.7	-48.4	4.2	51.03	Average	54	Pass
NVNT	n40	5190	Ant	5150	-33.18	4.2	66.25	Peak	74	Pass
NVNT	n40	5190	Ant	5150	-48.4	4.2	51.03	Average	54	Pass
NVNT	n40	5230	Ant	5350	-48.19	4.2	51.24	Peak	74	Pass
NVNT	n40	5230	Ant	5350	-57.69	4.2	41.74	Average	54	Pass
NVNT	n40	5230	Ant	5364.15	-45.73	4.2	53.70	Peak	74	Pass
NVNT	n40	5230	Ant	5356.32	-57.55	4.2	41.88	Average	54	Pass
NVNT	n40	5230	Ant	5460	-50.64	4.2	48.79	Peak	74	Pass
NVNT	n40	5230	Ant	5460	-58.85	4.2	40.58	Average	54	Pass
NVNT	ac20	5180	Ant	4500	-50.37	4.2	49.06	Peak	74	Pass





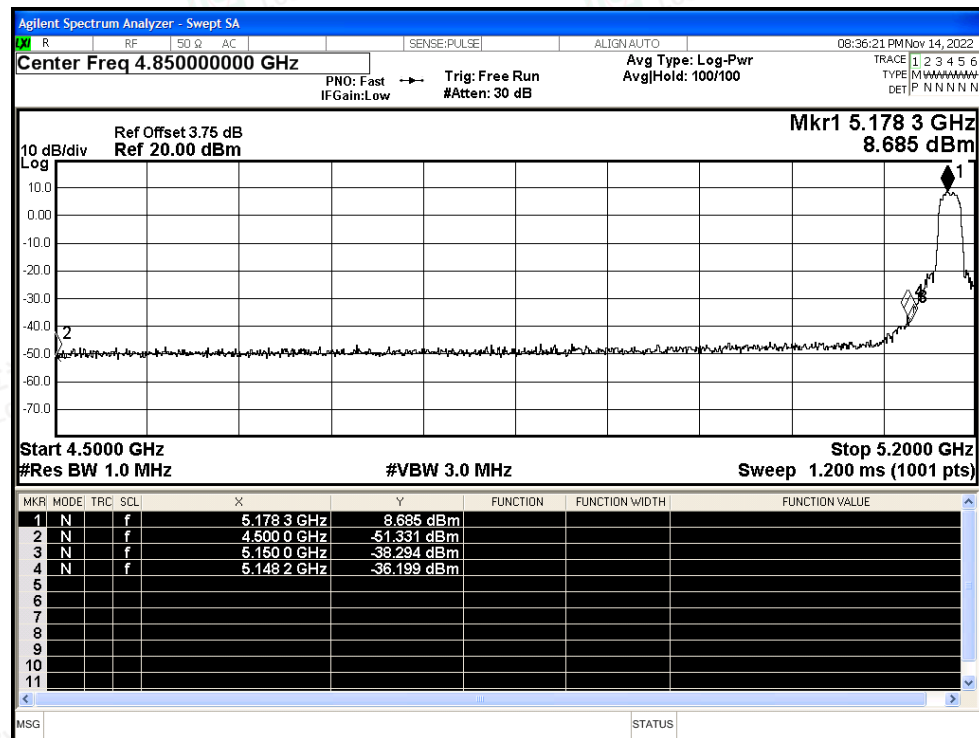
NVNT	ac20	5180	Ant	4500	-59.62	4.2	39.81	Average	54	Pass
NVNT	ac20	5180	Ant	5146.8	-34.72	4.2	64.71	Peak	74	Pass
NVNT	ac20	5180	Ant	5149.6	-52.21	4.2	47.22	Average	54	Pass
NVNT	ac20	5180	Ant	5150	-36.34	4.2	63.09	Peak	74	Pass
NVNT	ac20	5180	Ant	5150	-51.92	4.2	47.51	Average	54	Pass
NVNT	ac20	5240	Ant	5350	-49.94	4.2	49.49	Peak	74	Pass
NVNT	ac20	5240	Ant	5350	-58.19	4.2	41.24	Average	54	Pass
NVNT	ac20	5240	Ant	5387.04	-46.18	4.2	53.25	Peak	74	Pass
NVNT	ac20	5240	Ant	5351.52	-57.96	4.2	41.47	Average	54	Pass
NVNT	ac20	5240	Ant	5460	-50.12	4.2	49.31	Peak	74	Pass
NVNT	ac20	5240	Ant	5460	-59.28	4.2	40.15	Average	54	Pass
NVNT	ac40	5190	Ant	4500	-49.36	4.2	50.07	Peak	74	Pass
NVNT	ac40	5190	Ant	4500	-59.19	4.2	40.24	Average	54	Pass
NVNT	ac40	5190	Ant	5008.08	-45.92	4.2	53.51	Peak	74	Pass
NVNT	ac40	5190	Ant	5148.97	-57.32	4.2	42.11	Average	54	Pass
NVNT	ac40	5190	Ant	5150	-48.05	4.2	51.38	Peak	74	Pass
NVNT	ac40	5190	Ant	5150	-57.8	4.2	41.63	Average	54	Pass
NVNT	ac40	5230	Ant	5350	-47.58	4.2	51.85	Peak	74	Pass
NVNT	ac40	5230	Ant	5350	-57.57	4.2	41.86	Average	54	Pass
NVNT	ac40	5230	Ant	5353.35	-45.59	4.2	53.84	Peak	74	Pass
NVNT	ac40	5230	Ant	5351.73	-57.34	4.2	42.09	Average	54	Pass
NVNT	ac40	5230	Ant	5460	-49.57	4.2	49.86	Peak	74	Pass
NVNT	ac40	5230	Ant	5460	-58.84	4.2	40.59	Average	54	Pass
NVNT	ac80	5210	Ant	5350	-42.79	4.2	56.64	Peak	74	Pass
NVNT	ac80	5210	Ant	5350	-53.27	4.2	46.16	Average	54	Pass
NVNT	ac80	5210	Ant	5362.32	-40.61	4.2	58.82	Peak	74	Pass
NVNT	ac80	5210	Ant	5353.74	-52.94	4.2	46.49	Average	54	Pass
NVNT	ac80	5210	Ant	5460	-49.16	4.2	50.27	Peak	74	Pass
NVNT	ac80	5210	Ant	5460	-57.41	4.2	42.02	Average	54	Pass
NVNT	ac80	5210	Ant	4500	-51.18	4.2	48.25	Peak	74	Pass
NVNT	ac80	5210	Ant	4500	-58.95	4.2	40.48	Average	54	Pass
NVNT	ac80	5210	Ant	4656.42	-45.58	4.2	53.85	Peak	74	Pass
NVNT	ac80	5210	Ant	5105.93	-57.01	4.2	42.42	Average	54	Pass
NVNT	ac80	5210	Ant	5150	-47.4	4.2	52.03	Peak	74	Pass
NVNT	ac80	5210	Ant	5150	-56.69	4.2	42.74	Average	54	Pass



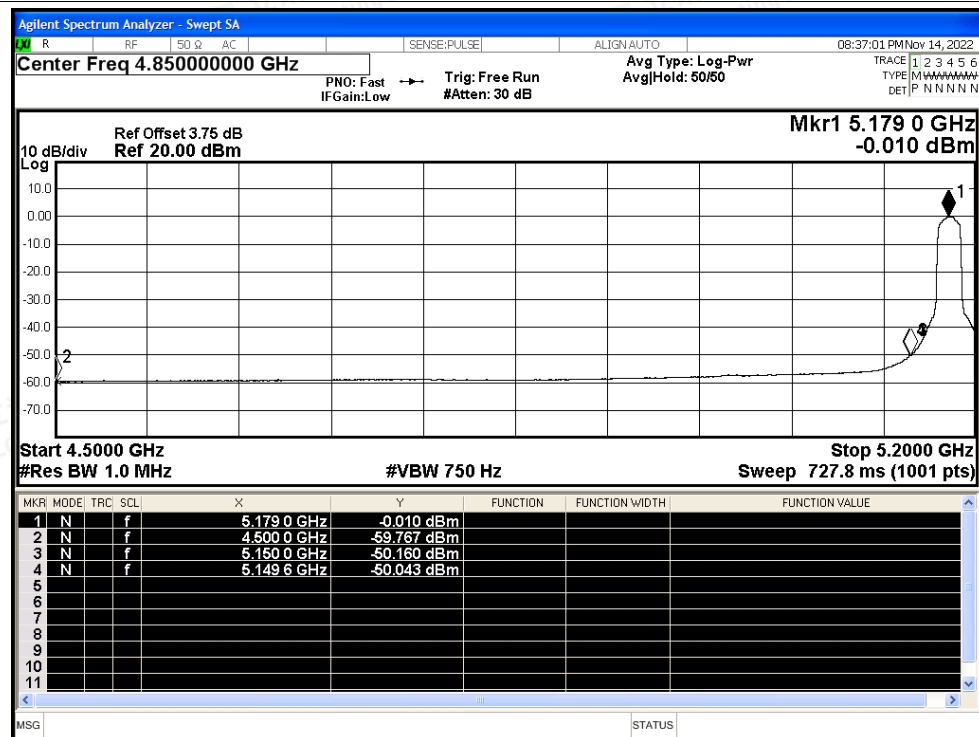


Test Graphs

Restrict Band NVNT a 5180MHz Ant Peak

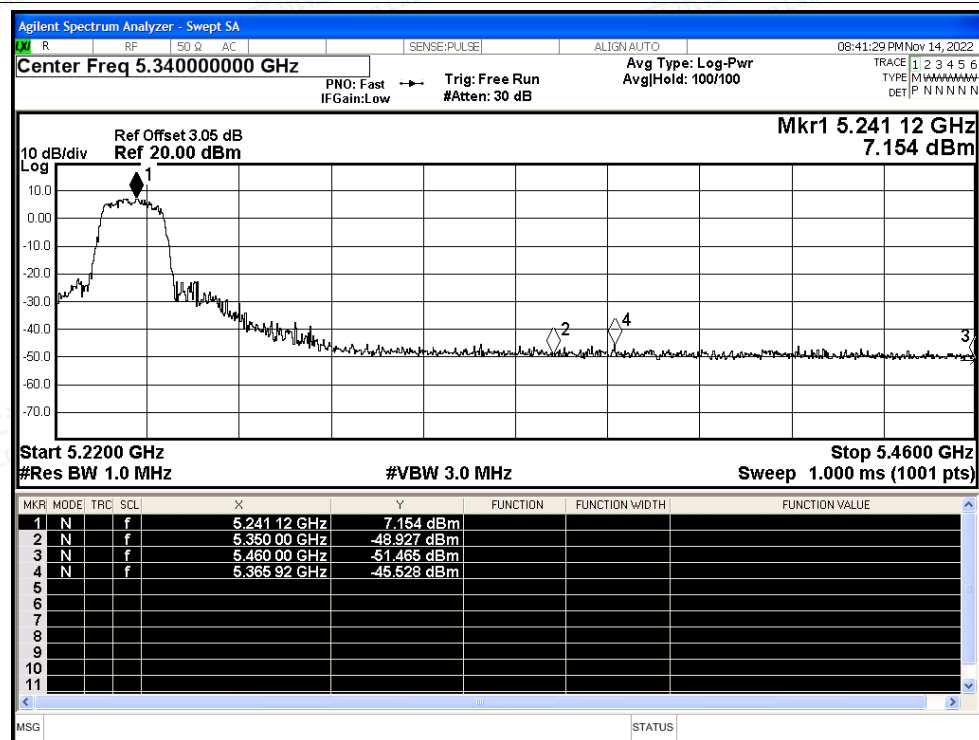


Restrict Band NVNT a 5180MHz Ant Average

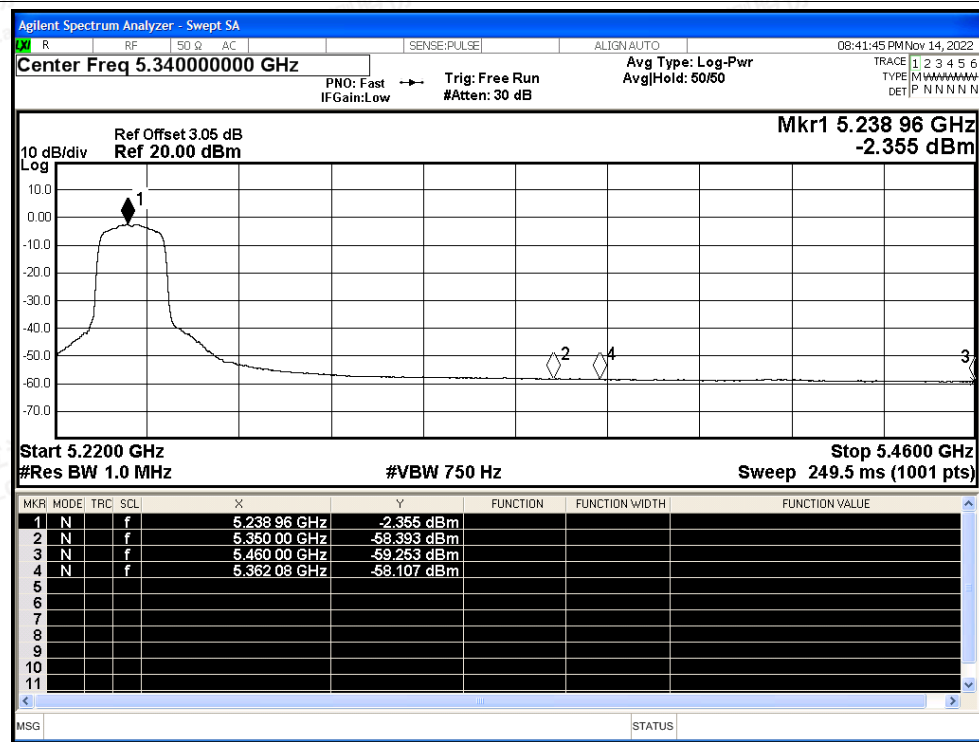




Restrict Band NVNT a 5240MHz Ant Peak

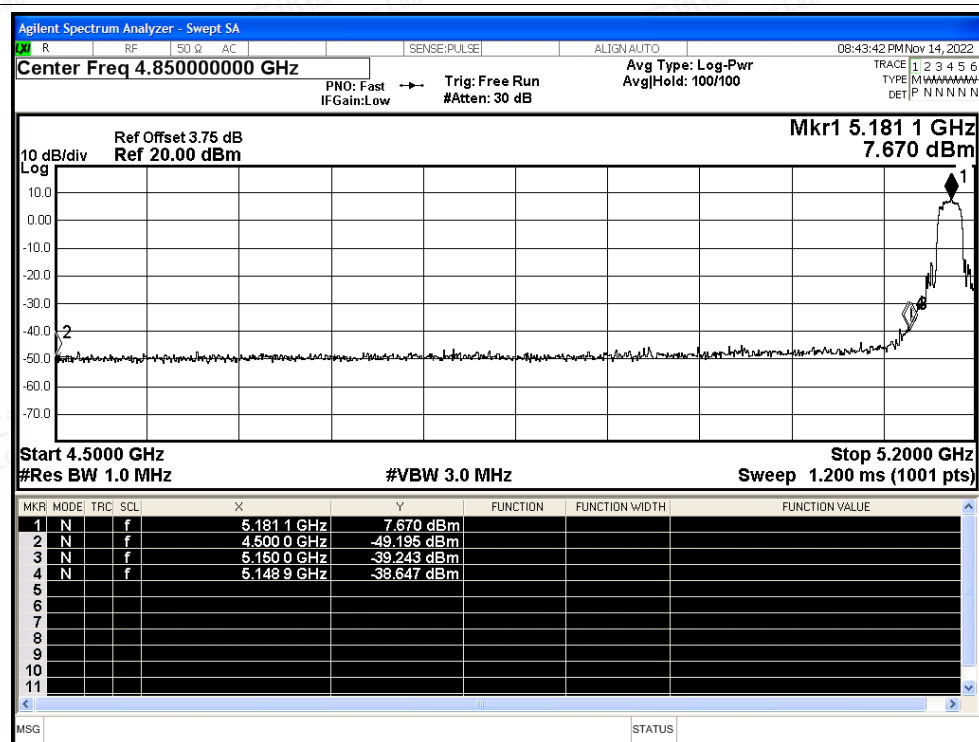


Restrict Band NVNT a 5240MHz Ant Average

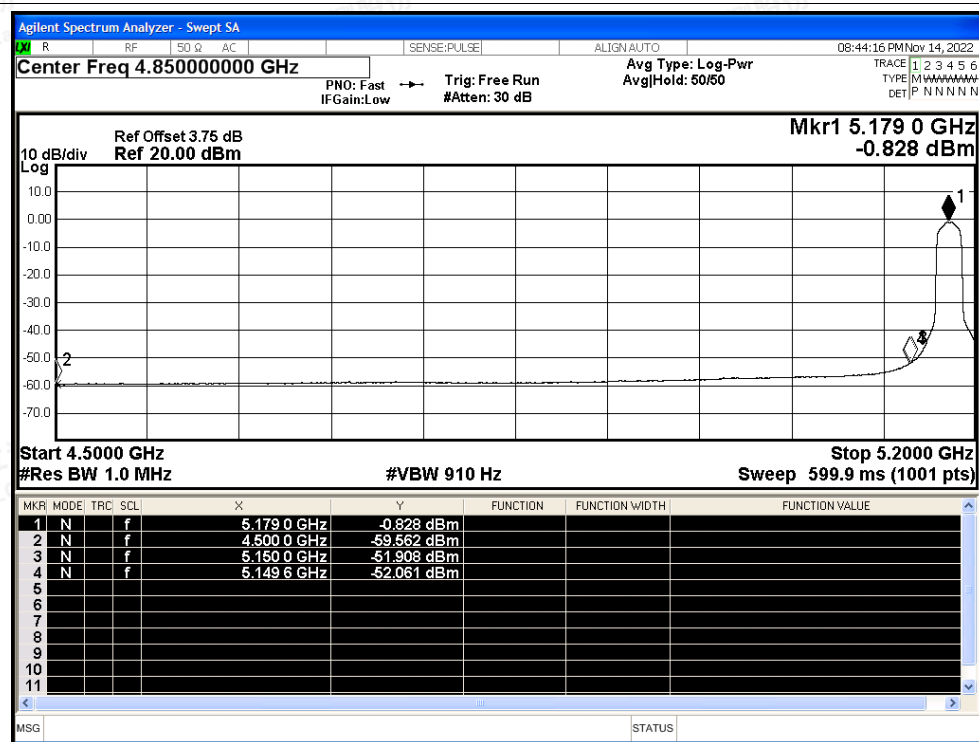




Restrict Band NVNT n20 5180MHz Ant Peak

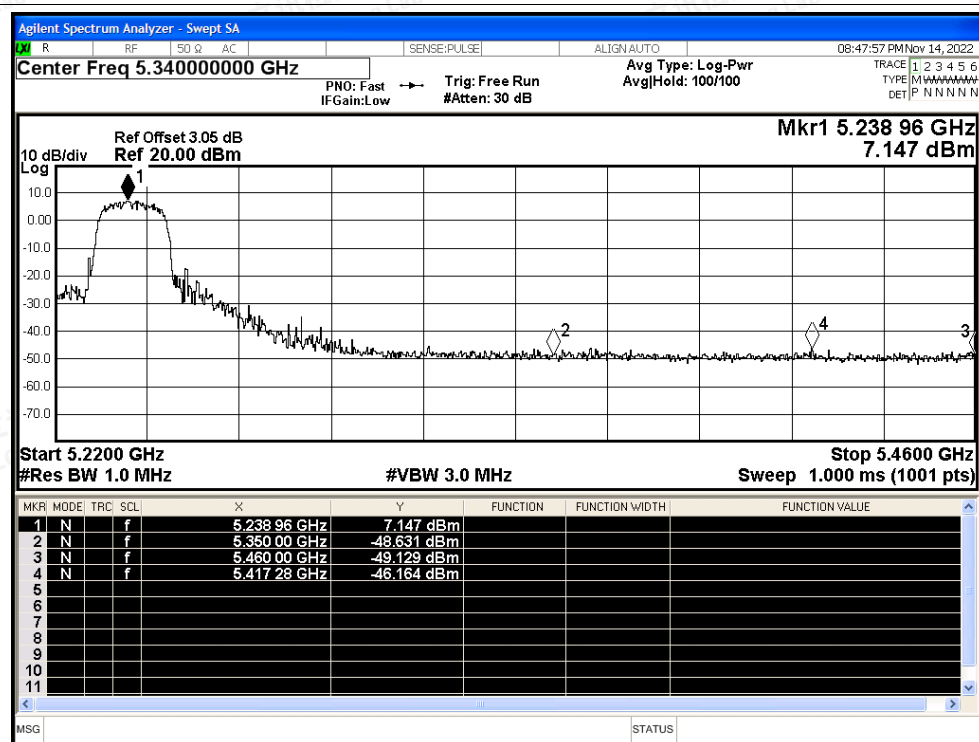


Restrict Band NVNT n20 5180MHz Ant Average

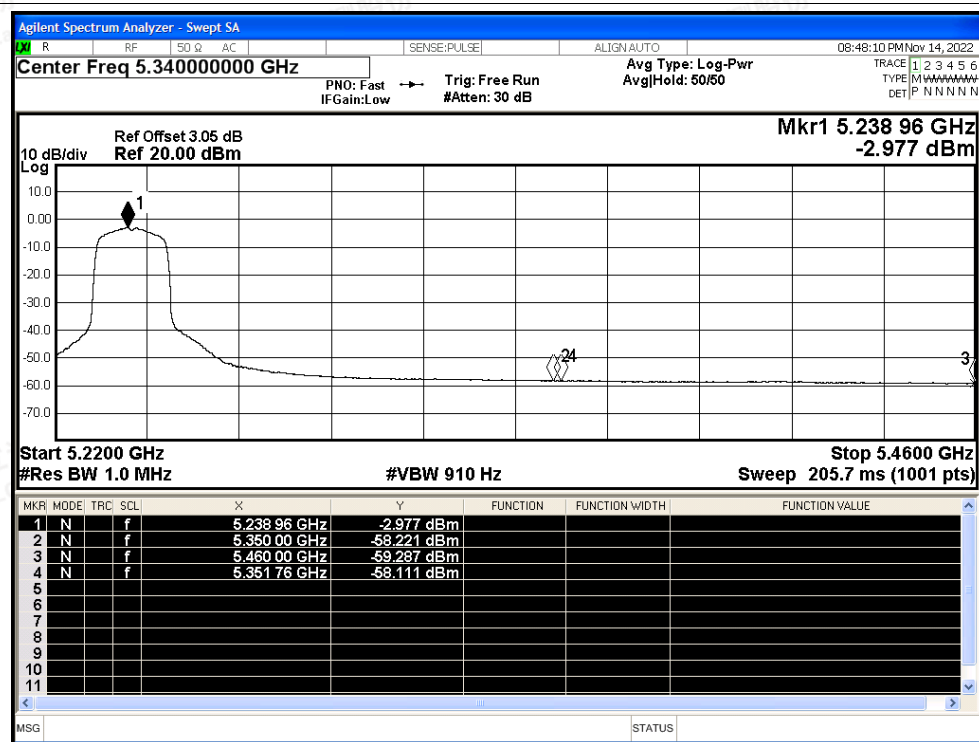




Restrict Band NVNT n20 5240MHz Ant Peak

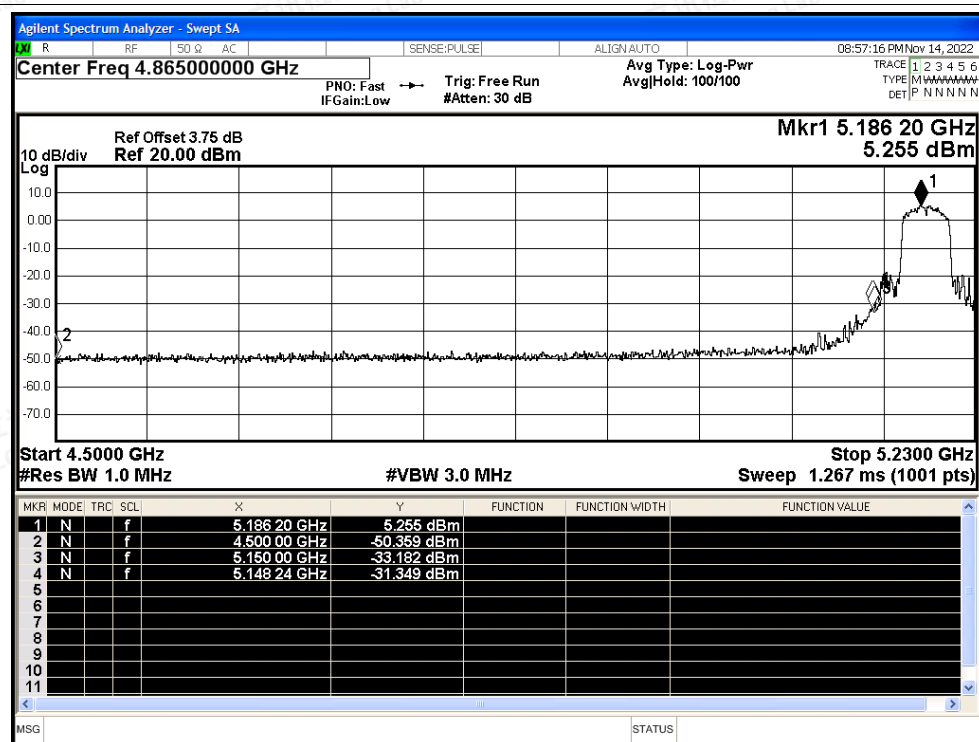


Restrict Band NVNT n20 5240MHz Ant Average

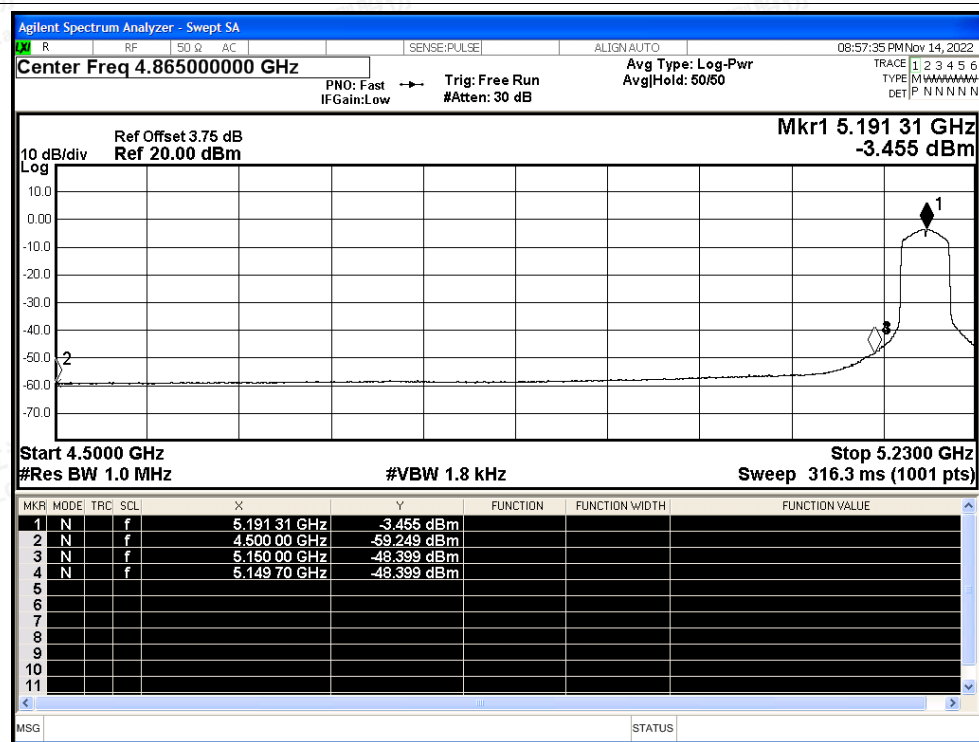




Restrict Band NVNT n40 5190MHz Ant Peak

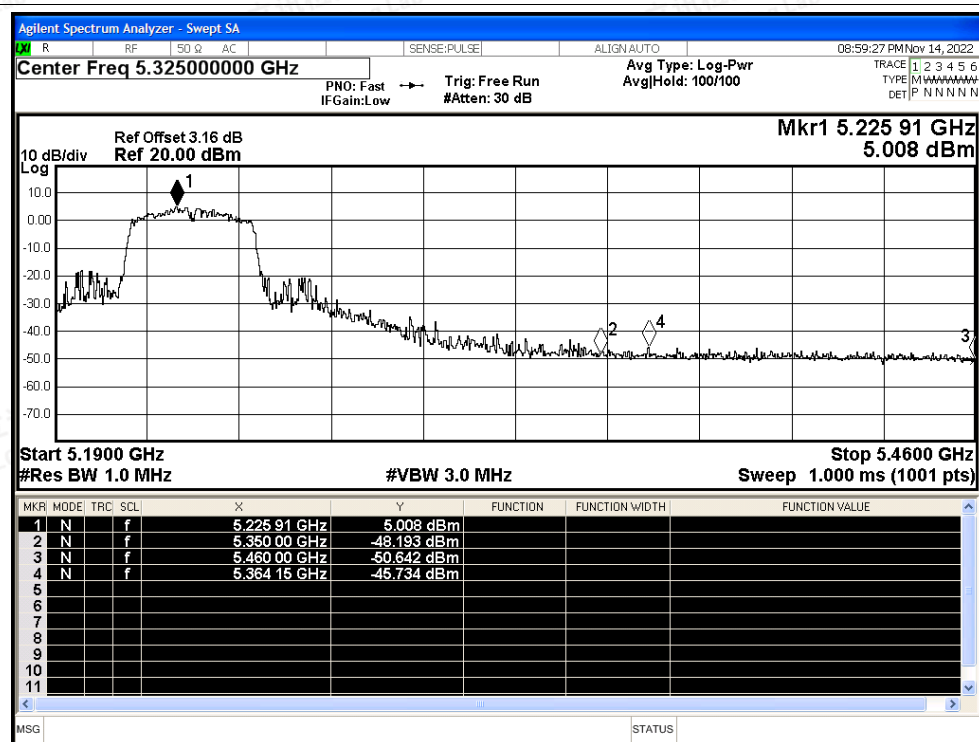


Restrict Band NVNT n40 5190MHz Ant Average

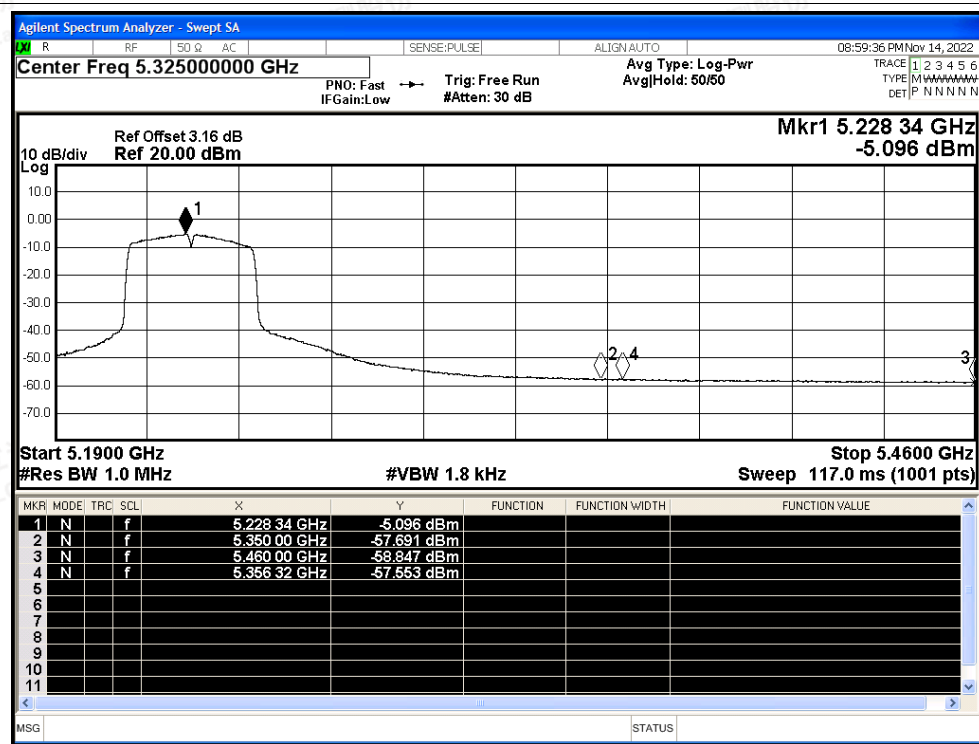




Restrict Band NVNT n40 5230MHz Ant Peak



Restrict Band NVNT n40 5230MHz Ant Average



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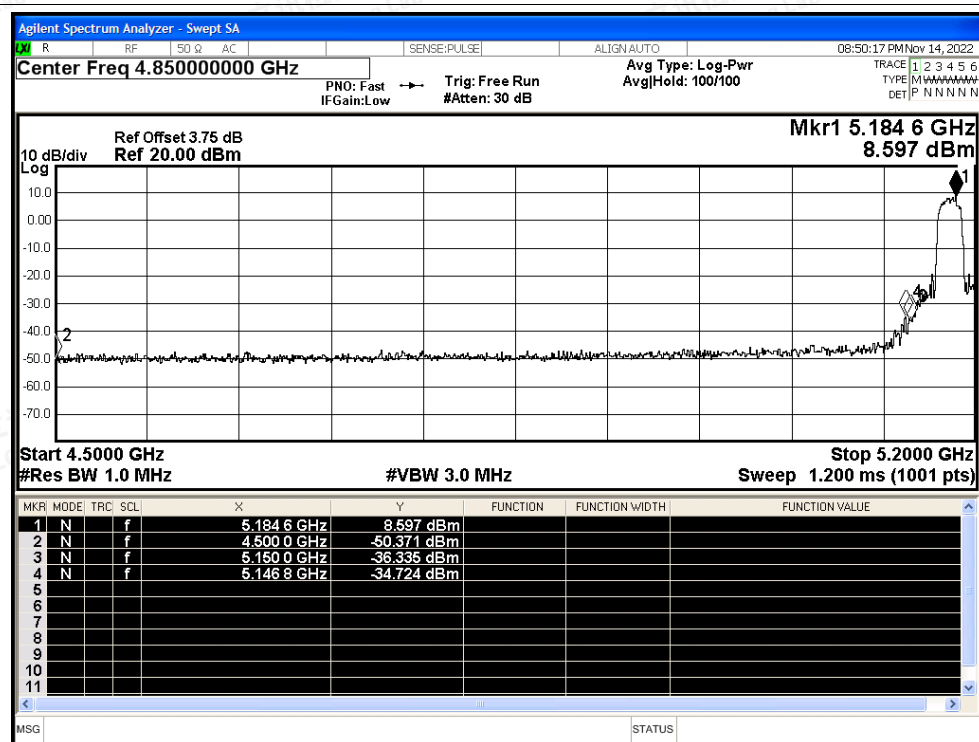
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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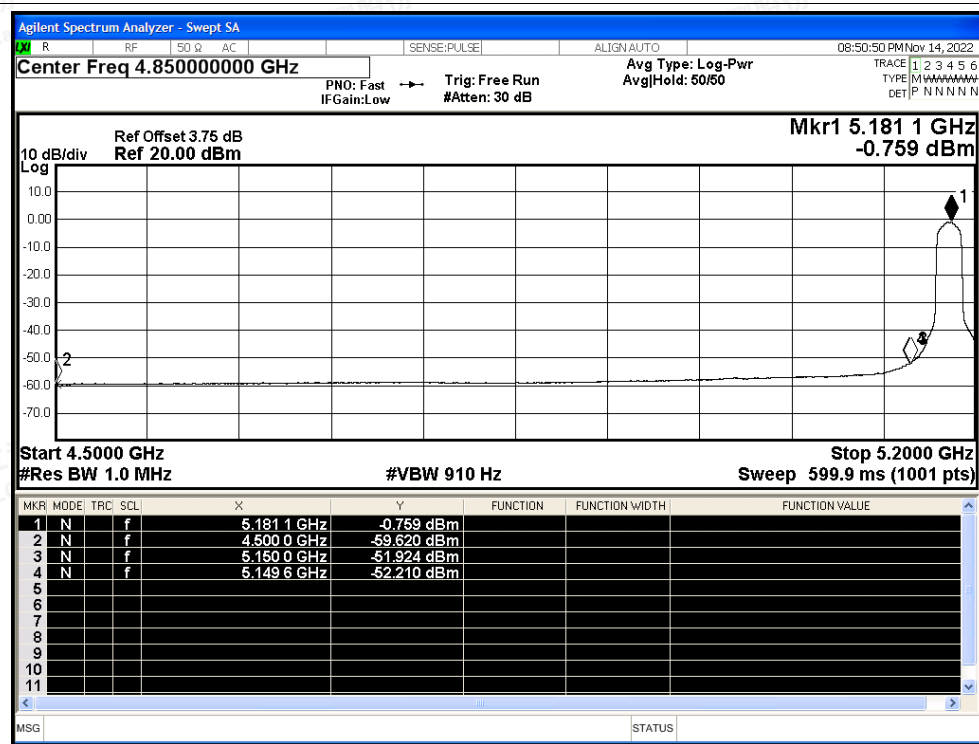
Scan code to check authenticity



Restrict Band NVNT ac20 5180MHz Ant Peak

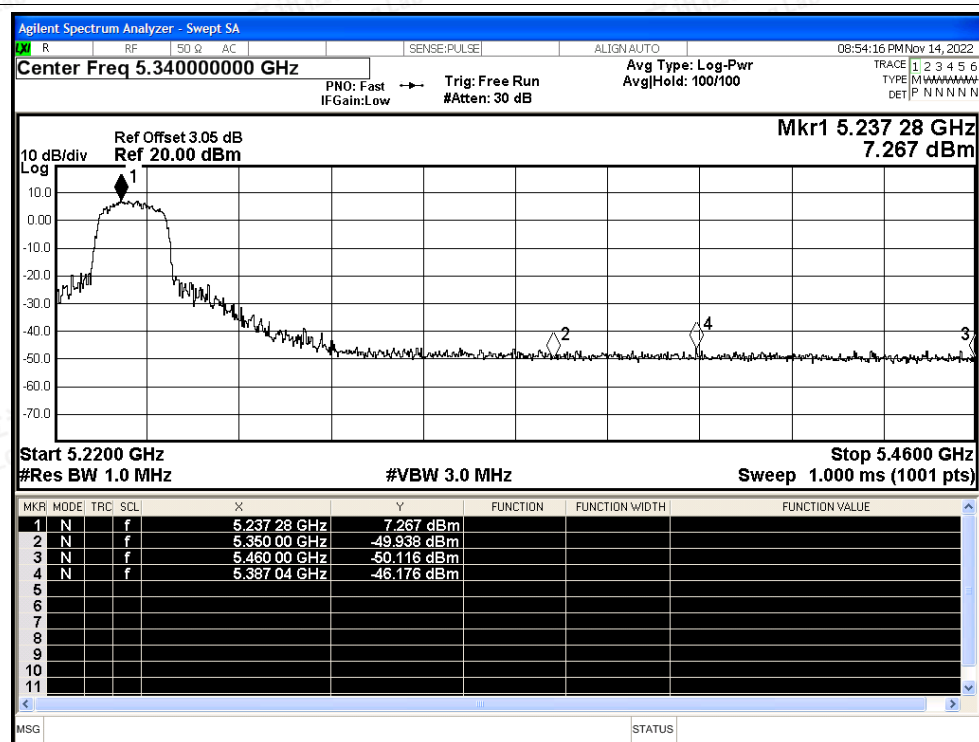


Restrict Band NVNT ac20 5180MHz Ant Average

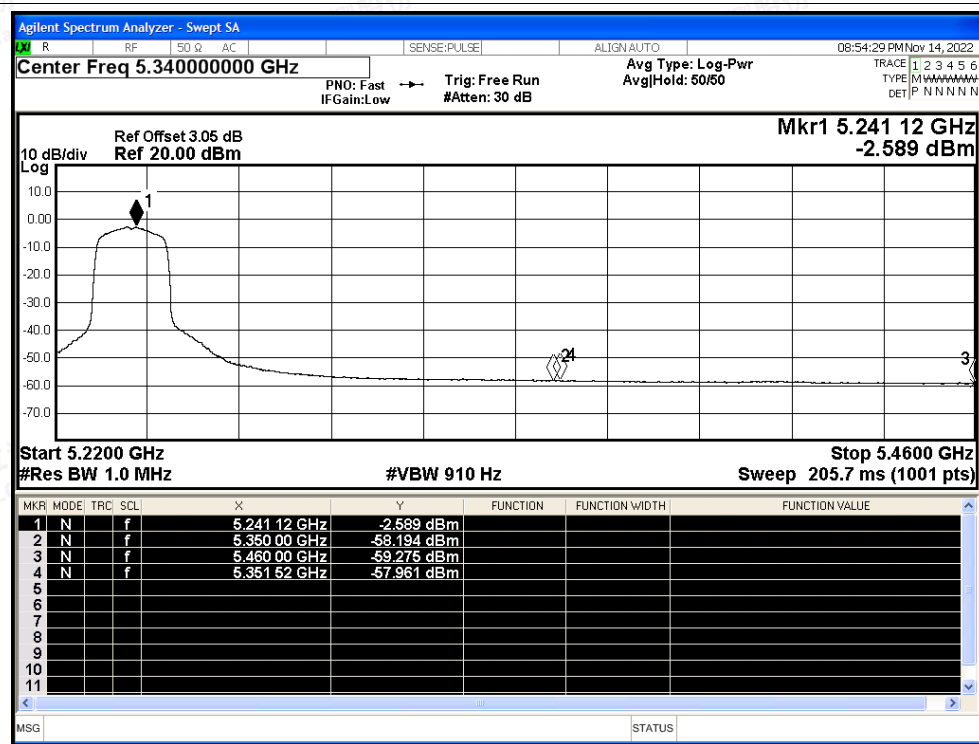




Restrict Band NVNT ac20 5240MHz Ant Peak



Restrict Band NVNT ac20 5240MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

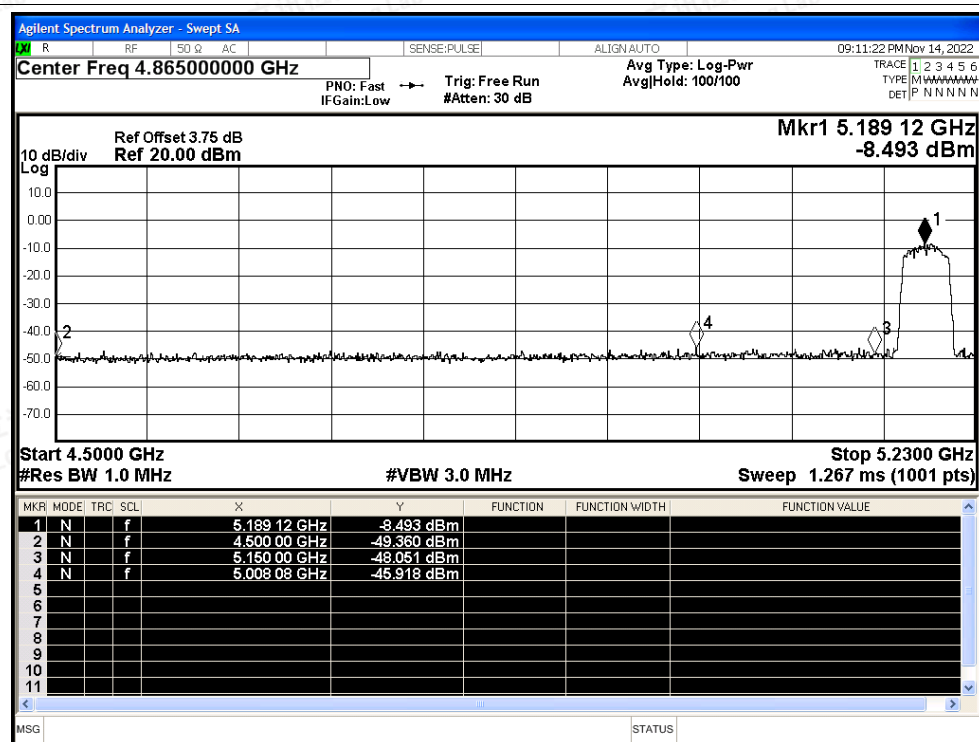
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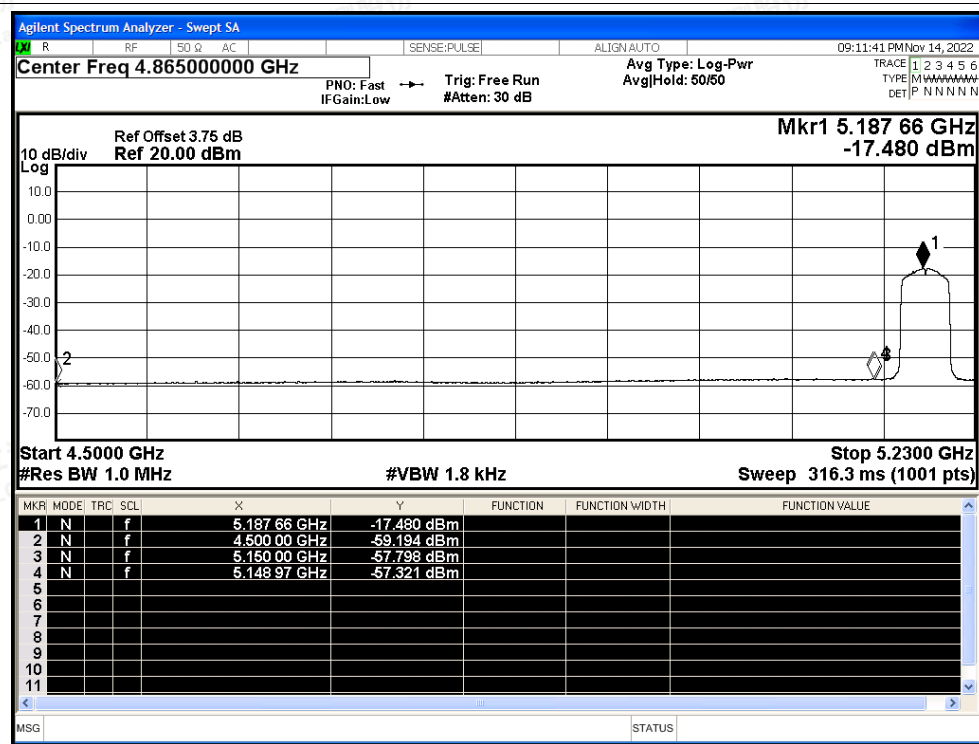
Scan code to check authenticity



Restrict Band NVNT ac40 5190MHz Ant Peak

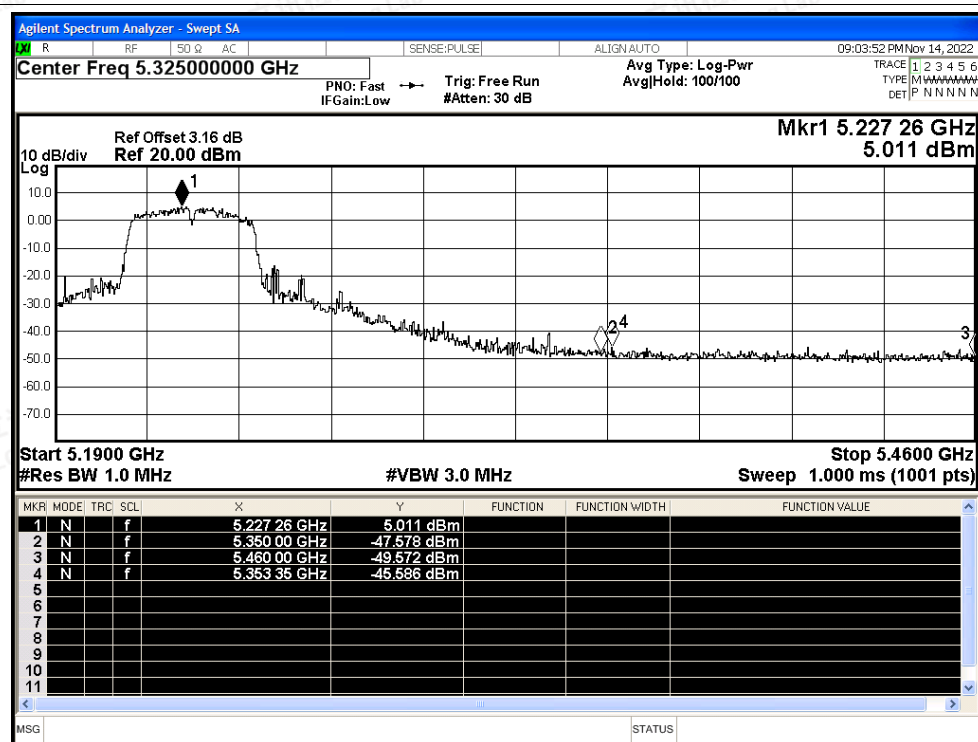


Restrict Band NVNT ac40 5190MHz Ant Average

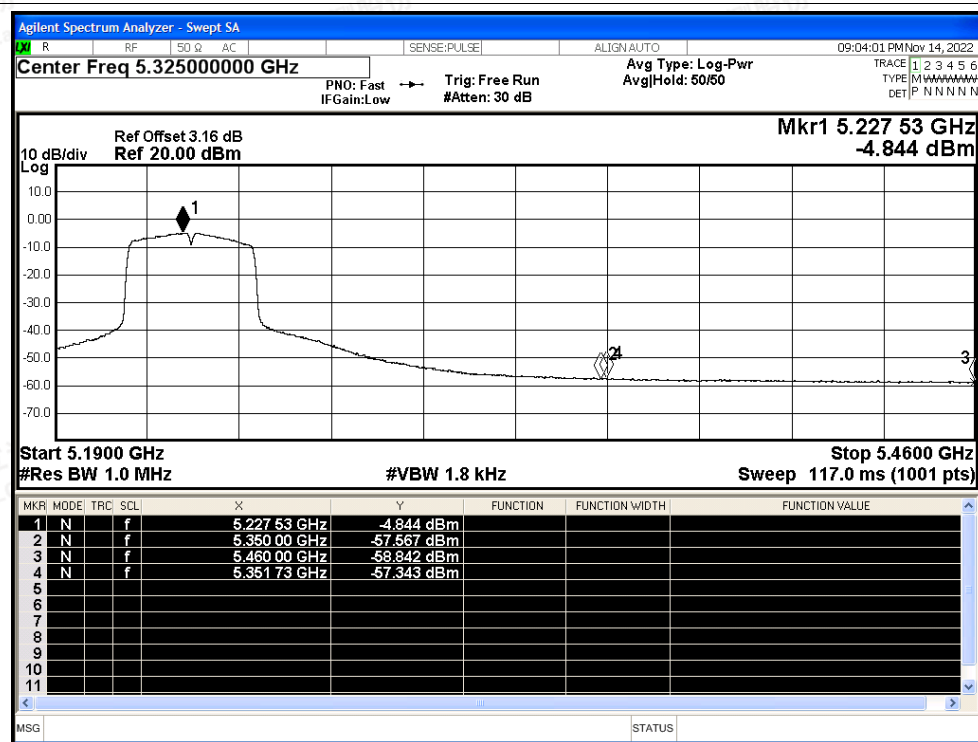




Restrict Band NVNT ac40 5230MHz Ant Peak



Restrict Band NVNT ac40 5230MHz Ant Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

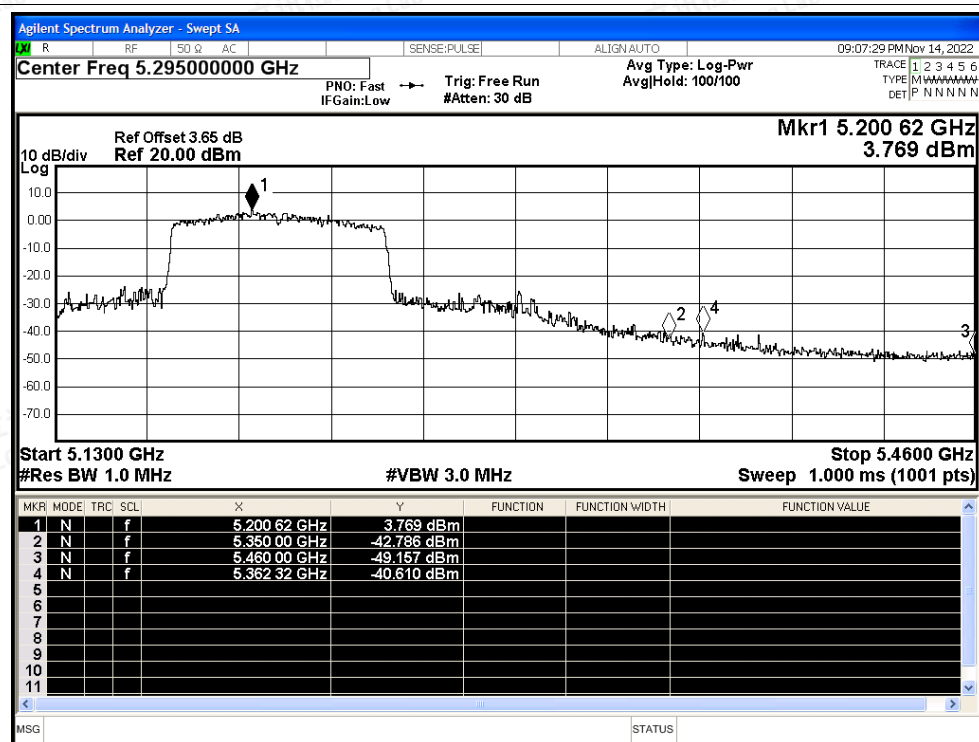
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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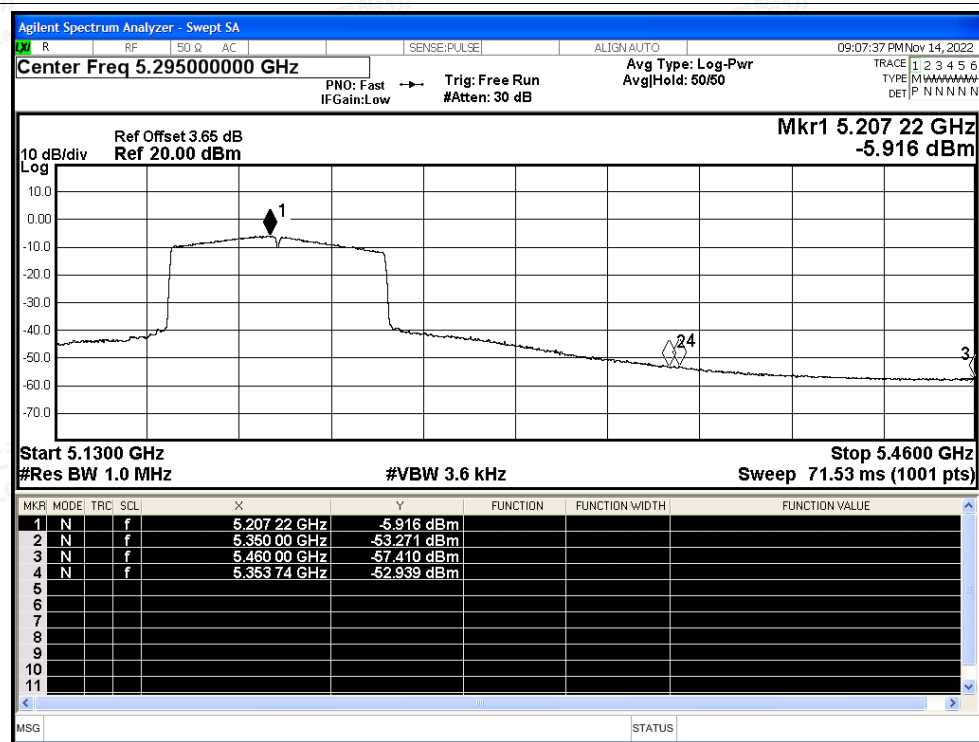
Scan code to check authenticity



Restrict Band NVNT ac80 5210MHz Ant Peak

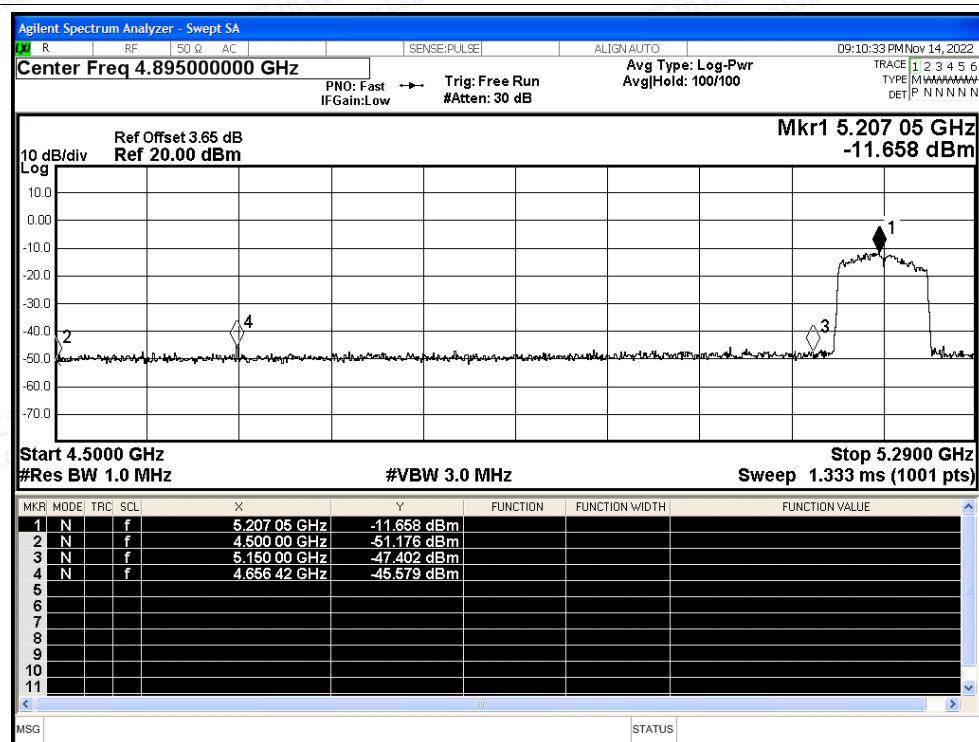


Restrict Band NVNT ac80 5210MHz Ant Average

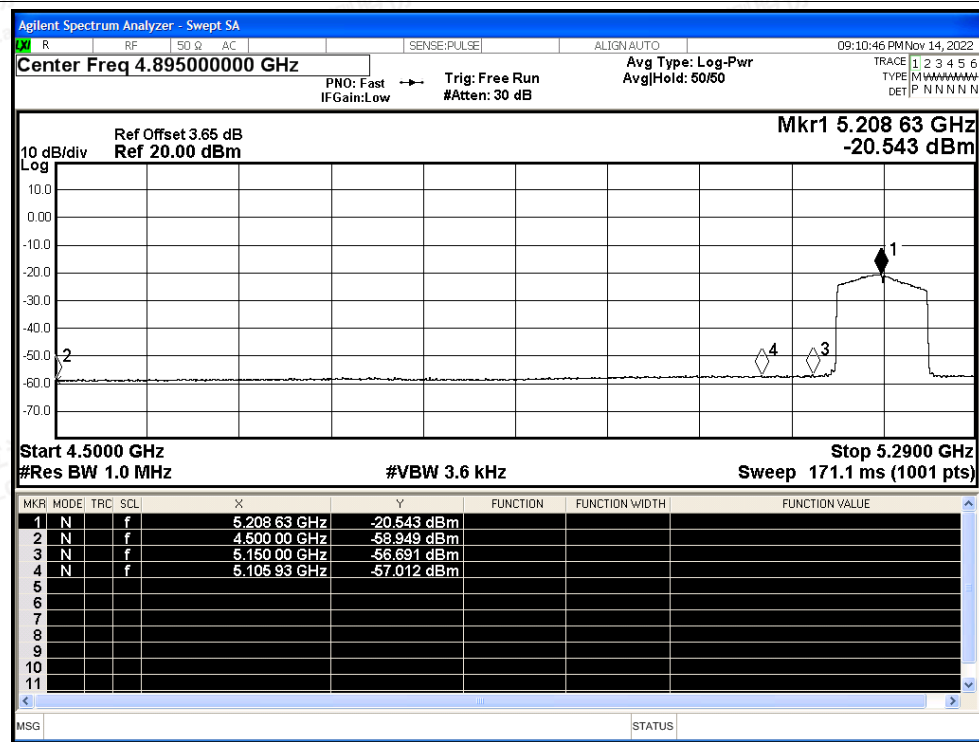




Restrict Band NVNT ac80 5210MHz Ant Peak



Restrict Band NVNT ac80 5210MHz Ant Average





D.6 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant	5180	0	0	25	Pass
NVNT	a	5200	Ant	5200	0	0	25	Pass
NVNT	a	5240	Ant	5240	0	0	25	Pass
NVNT	n20	5180	Ant	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant	5200.02	20000	3.85	25	Pass
NVNT	n20	5240	Ant	5240	0	0	25	Pass
NVNT	n40	5190	Ant	5190	0	0	25	Pass
NVNT	n40	5230	Ant	5230	0	0	25	Pass
NVNT	ac20	5180	Ant	5180	0	0	25	Pass
NVNT	ac20	5200	Ant	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant	5240	0	0	25	Pass
NVNT	ac40	5190	Ant	5190	0	0	25	Pass
NVNT	ac40	5230	Ant	5230	0	0	25	Pass
NVNT	ac80	5210	Ant	5210	0	0	25	Pass

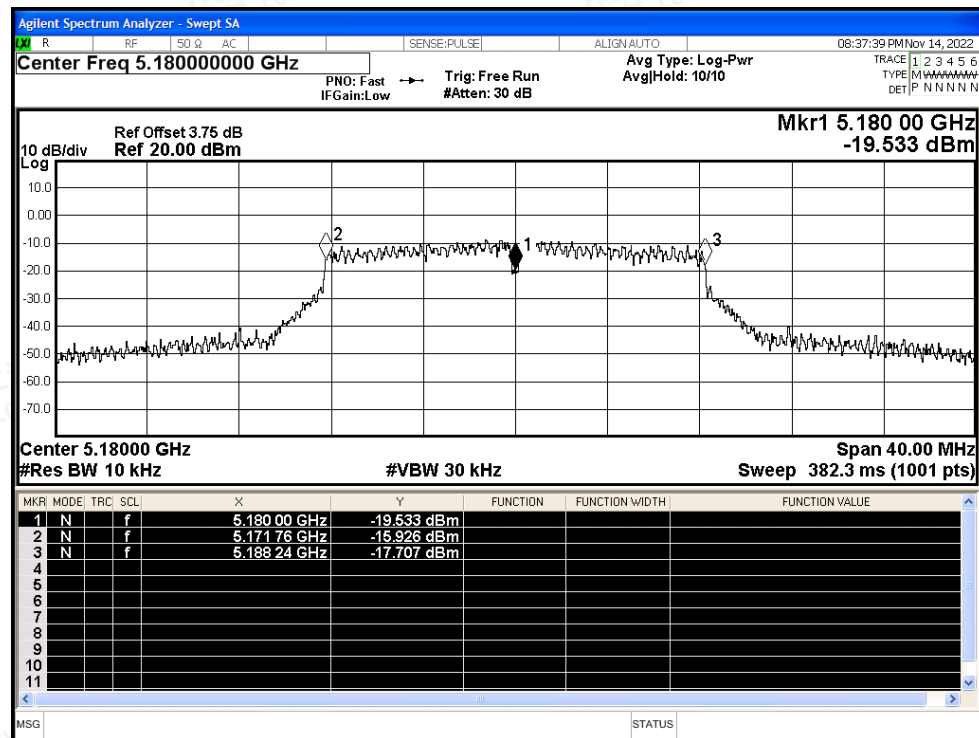


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Scan code to check authenticity

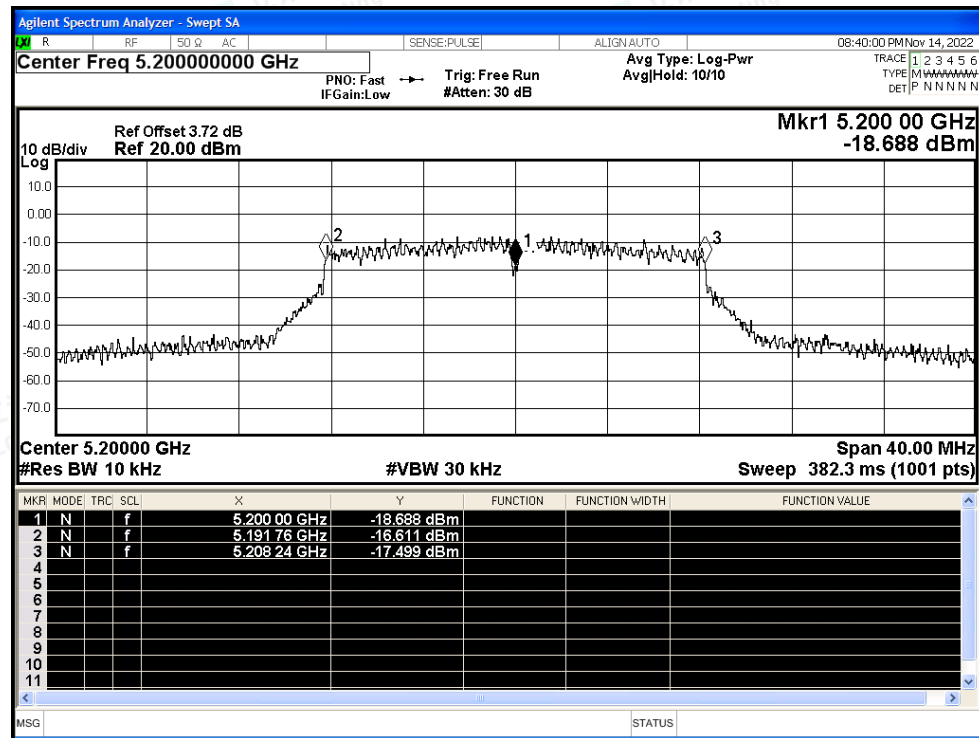


Test Graphs

Freq. Stability NVNT a 5180MHz Ant



Freq. Stability NVNT a 5200MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

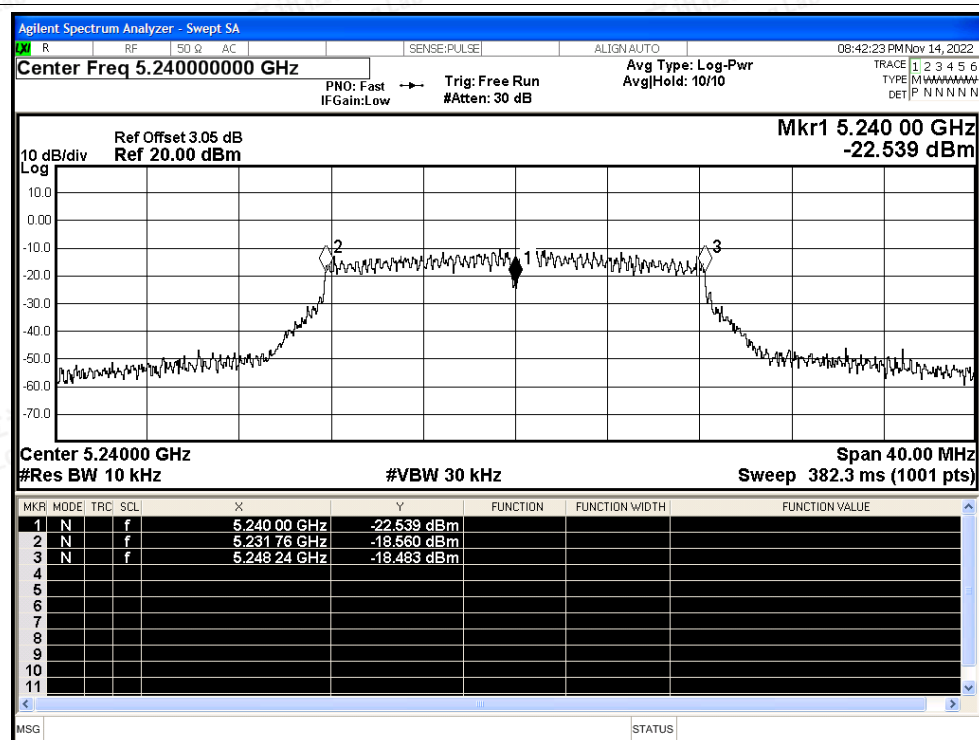
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

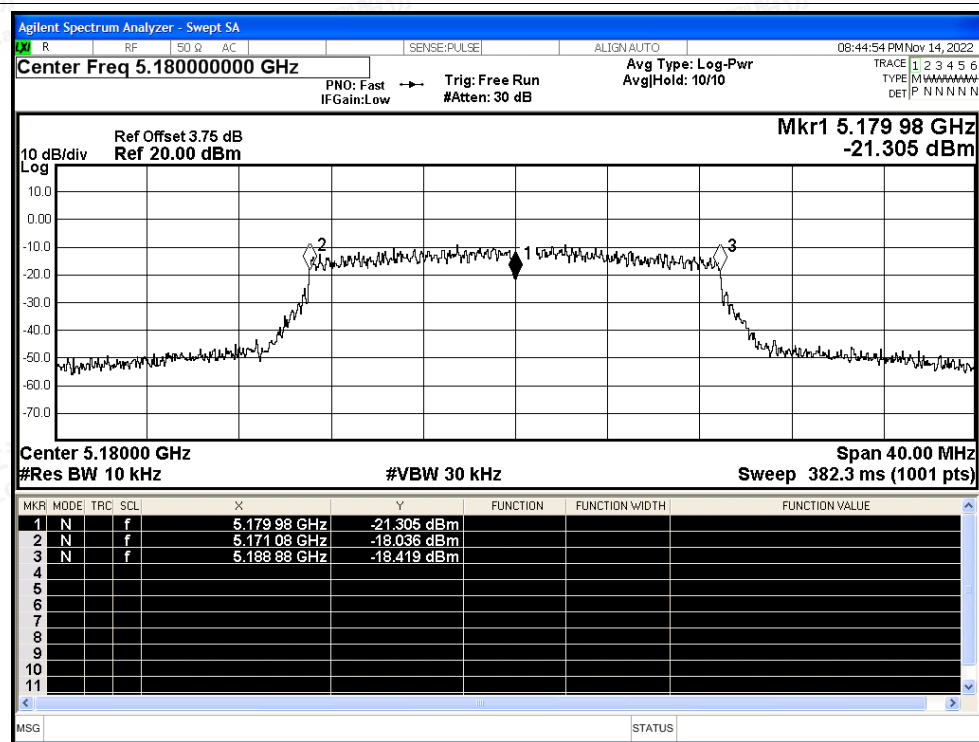
Scan code to check authenticity



Freq. Stability NVNT a 5240MHz Ant

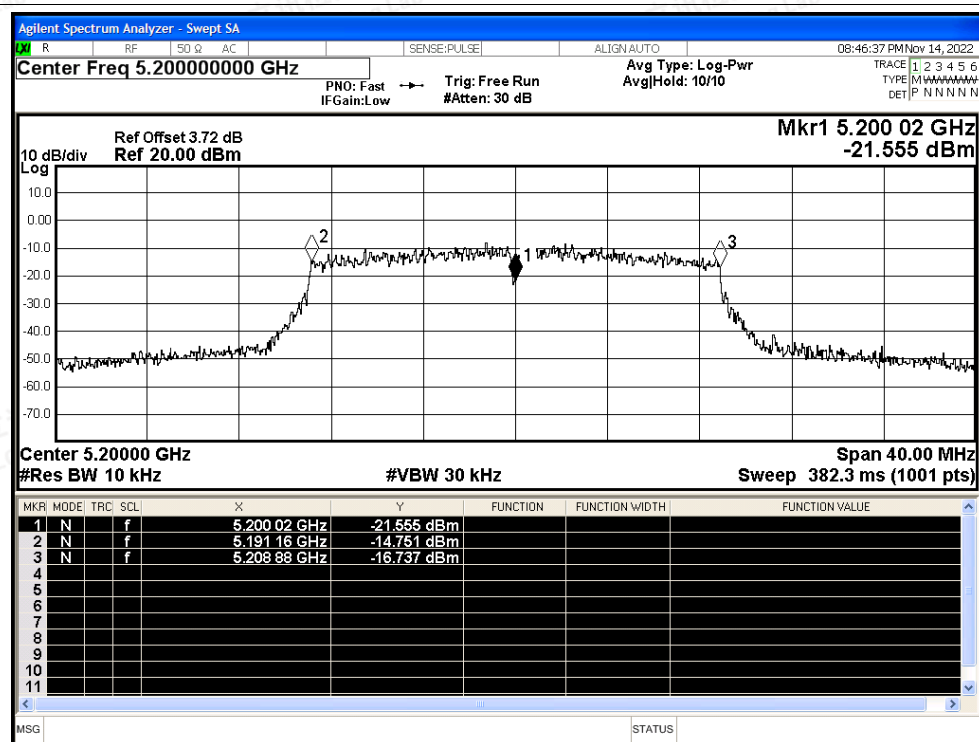


Freq. Stability NVNT n20 5180MHz Ant

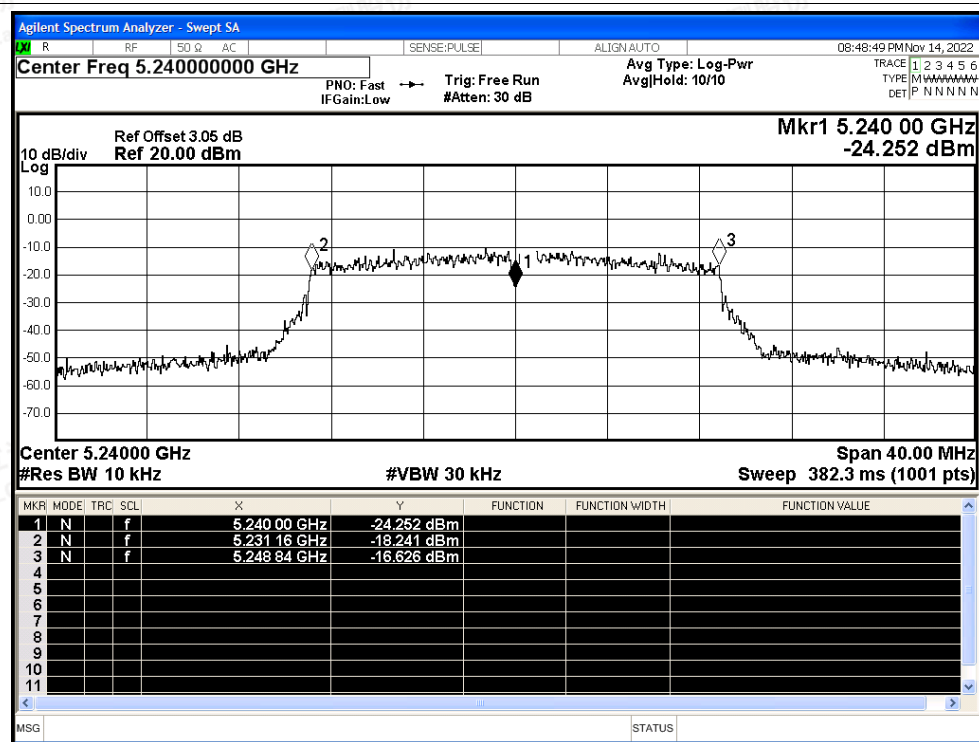




Freq. Stability NVNT n20 5200MHz Ant

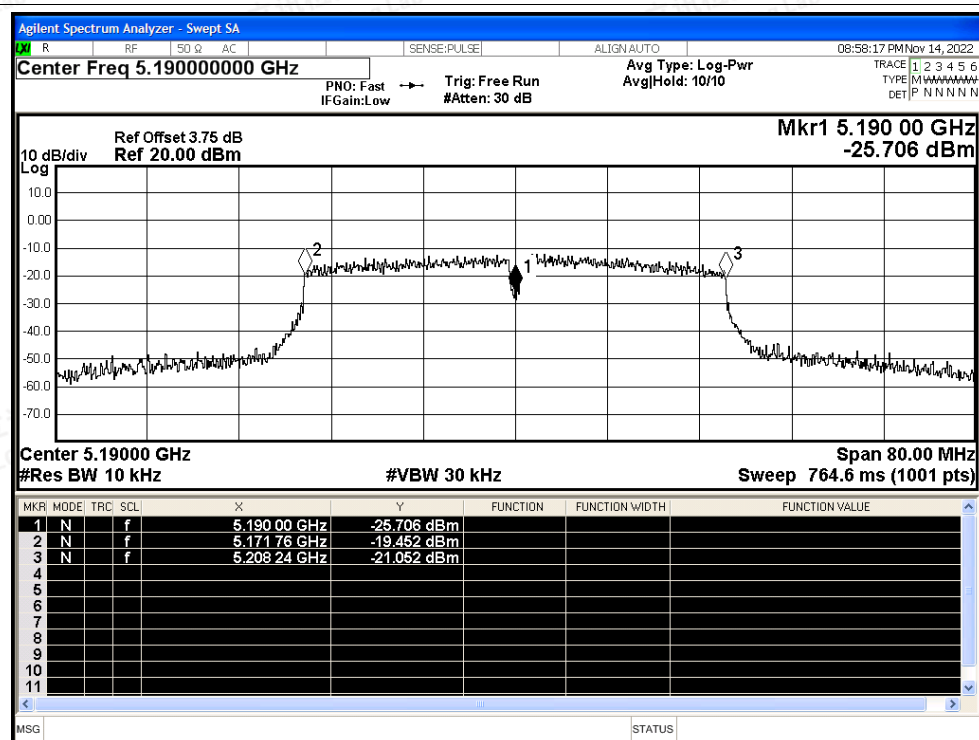


Freq. Stability NVNT n20 5240MHz Ant

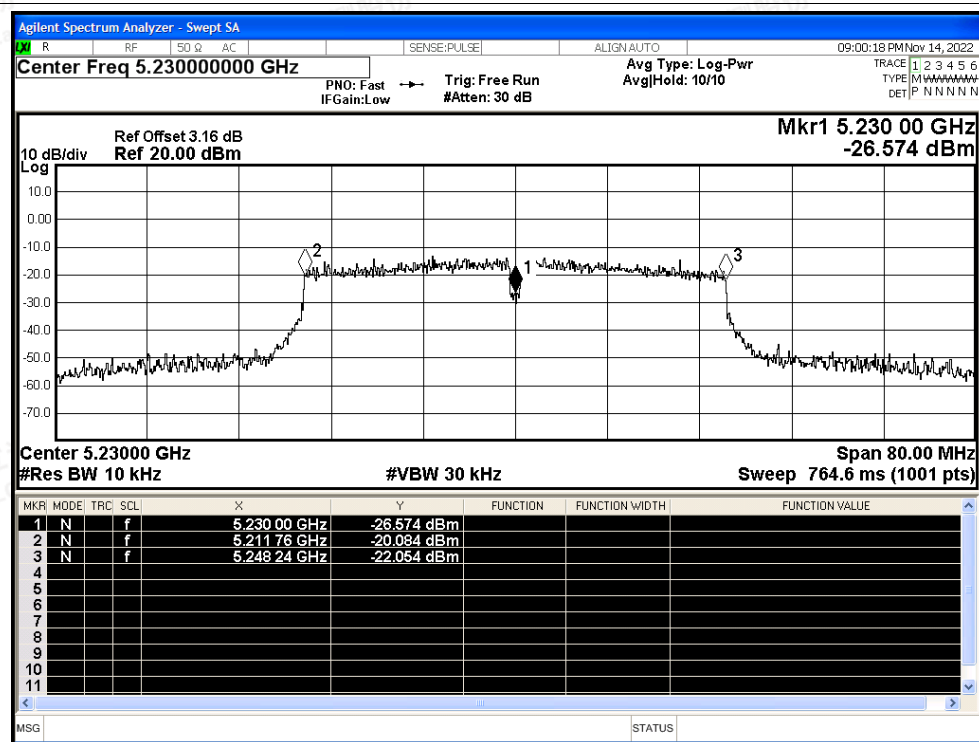




Freq. Stability NVNT n40 5190MHz Ant

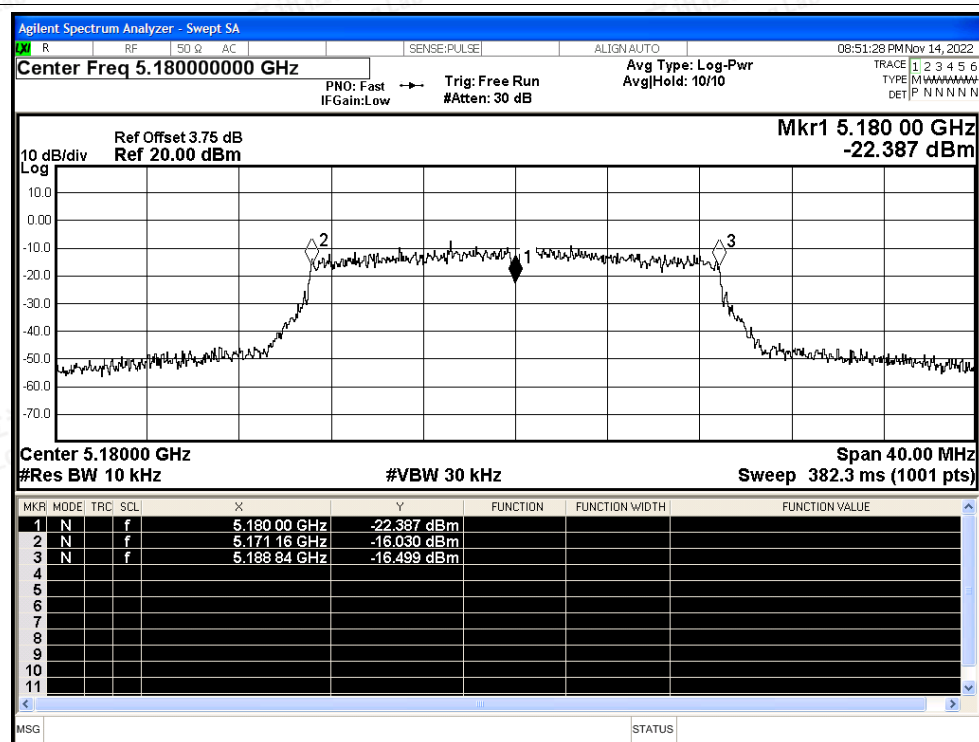


Freq. Stability NVNT n40 5230MHz Ant

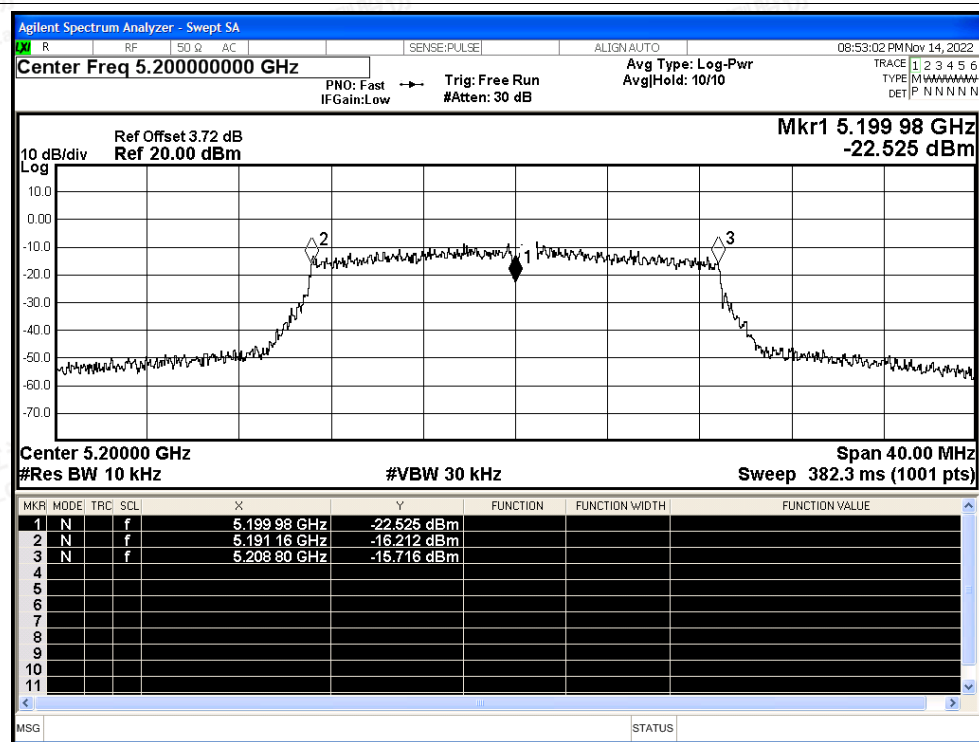




Freq. Stability NVNT ac20 5180MHz Ant

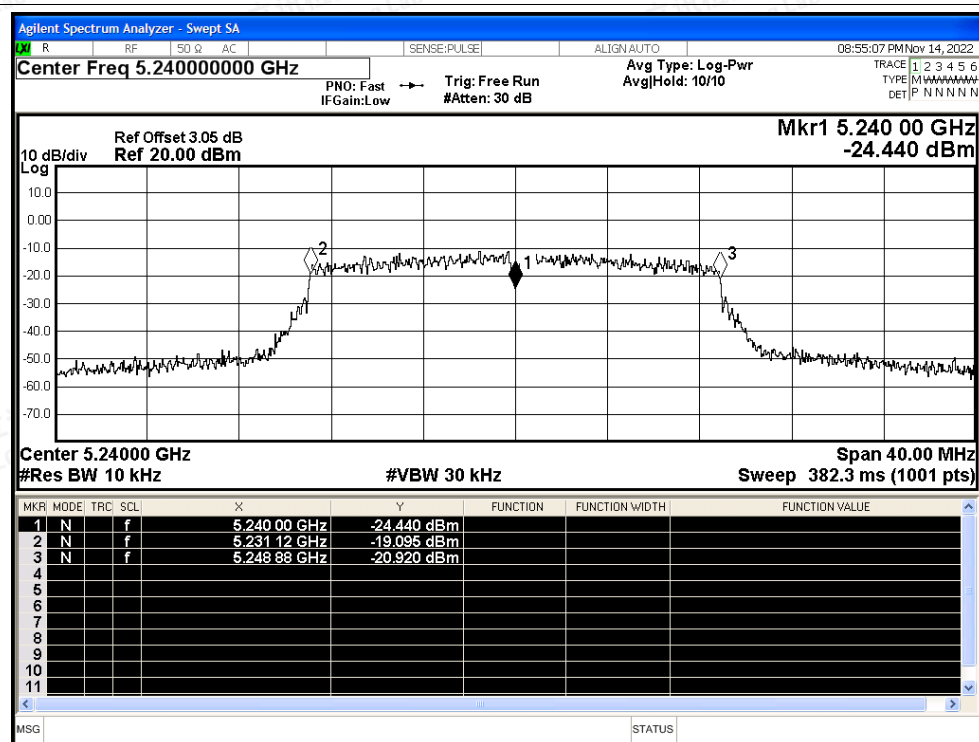


Freq. Stability NVNT ac20 5200MHz Ant

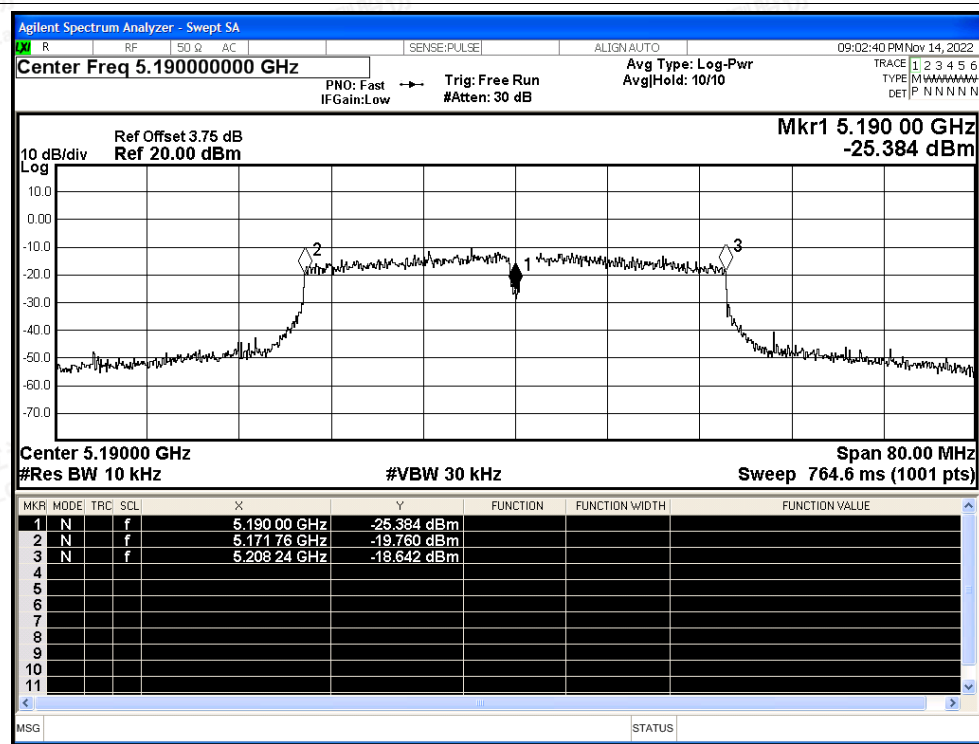




Freq. Stability NVNT ac20 5240MHz Ant

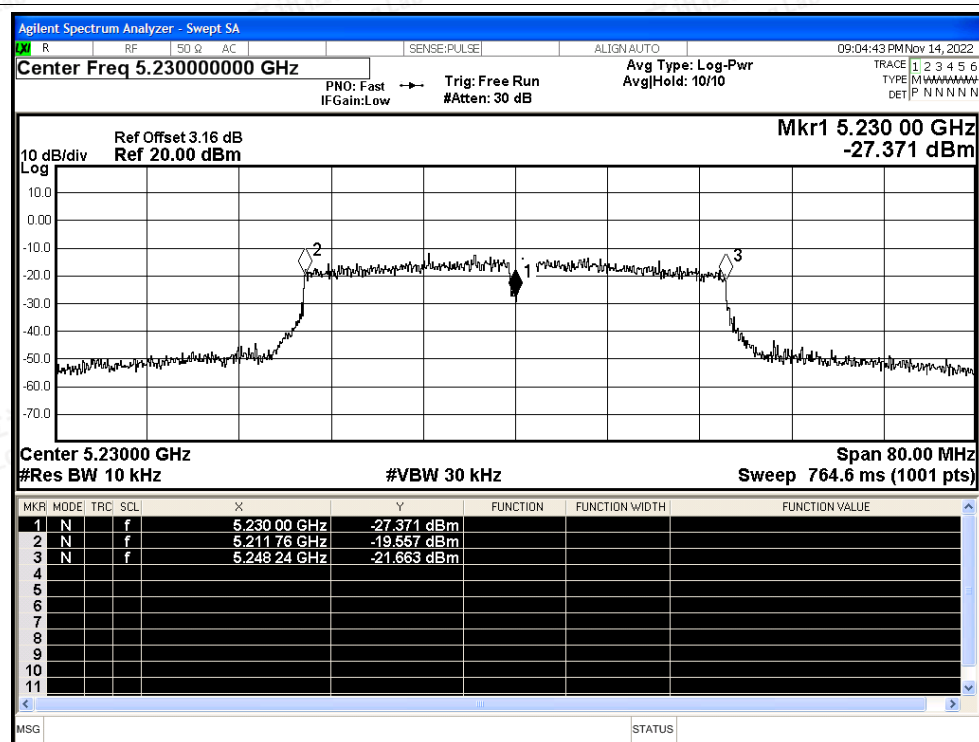


Freq. Stability NVNT ac40 5190MHz Ant

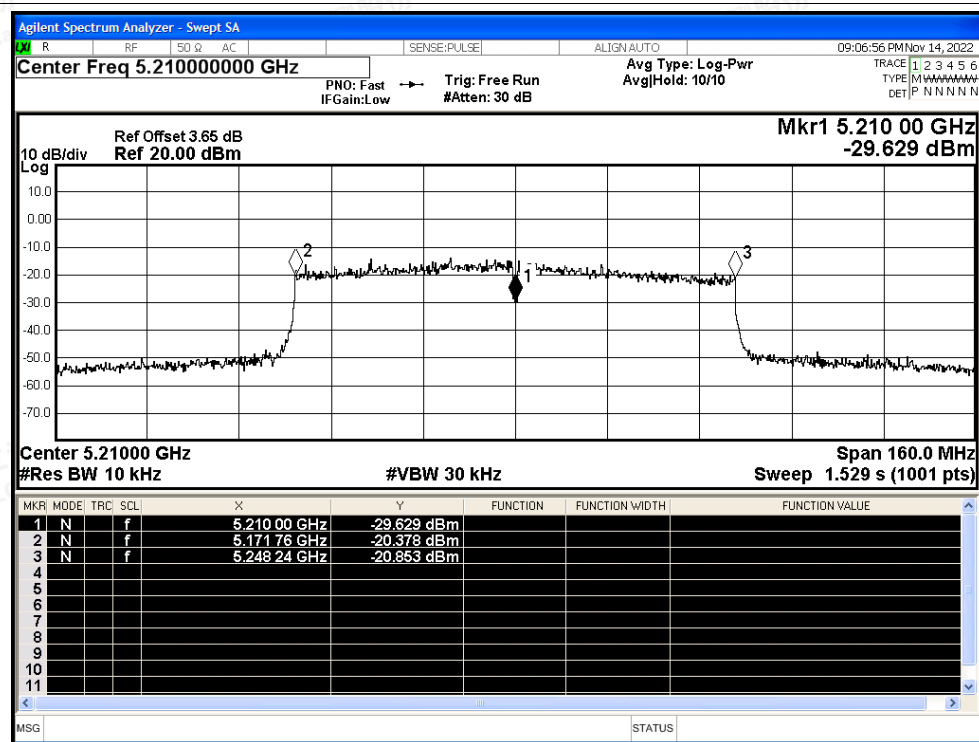




Freq. Stability NVNT ac40 5230MHz Ant



Freq. Stability NVNT ac80 5210MHz Ant





D.7 Duty Cycle

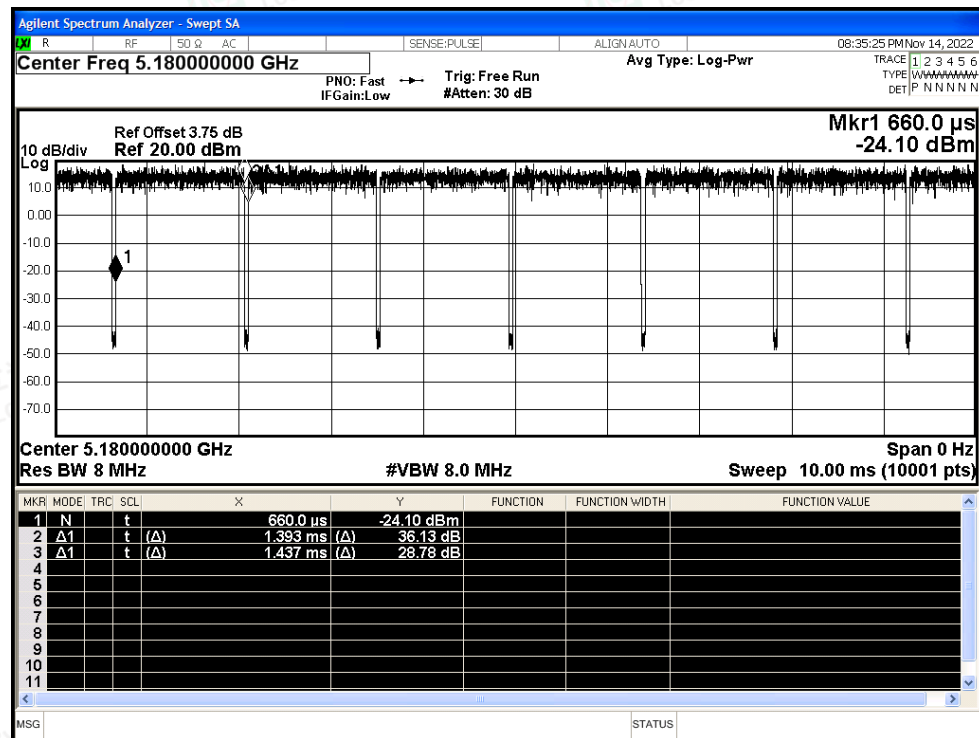
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant	96.94	0.13	0.72
NVNT	a	5200	Ant	97.01	0.13	0.72
NVNT	a	5240	Ant	96.94	0.13	0.72
NVNT	n20	5180	Ant	96.23	0.17	0.85
NVNT	n20	5200	Ant	96.23	0.17	0.85
NVNT	n20	5240	Ant	96.23	0.17	0.85
NVNT	n40	5190	Ant	93.05	0.31	1.7
NVNT	n40	5230	Ant	92.88	0.32	1.7
NVNT	ac20	5180	Ant	96.19	0.17	0.84
NVNT	ac20	5200	Ant	96.35	0.16	0.84
NVNT	ac20	5240	Ant	96.19	0.17	0.84
NVNT	ac40	5190	Ant	92.94	0.32	1.69
NVNT	ac40	5230	Ant	92.92	0.32	1.69
NVNT	ac80	5210	Ant	87.1	0.6	3.37



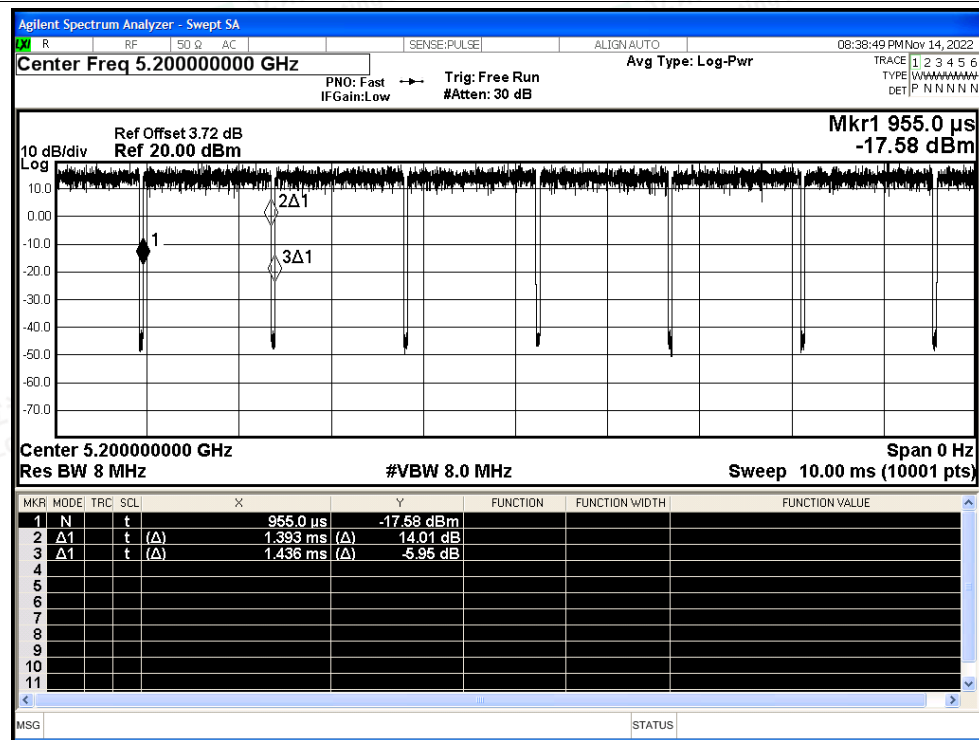


Test Graphs

Duty Cycle NVNT a 5180MHz Ant

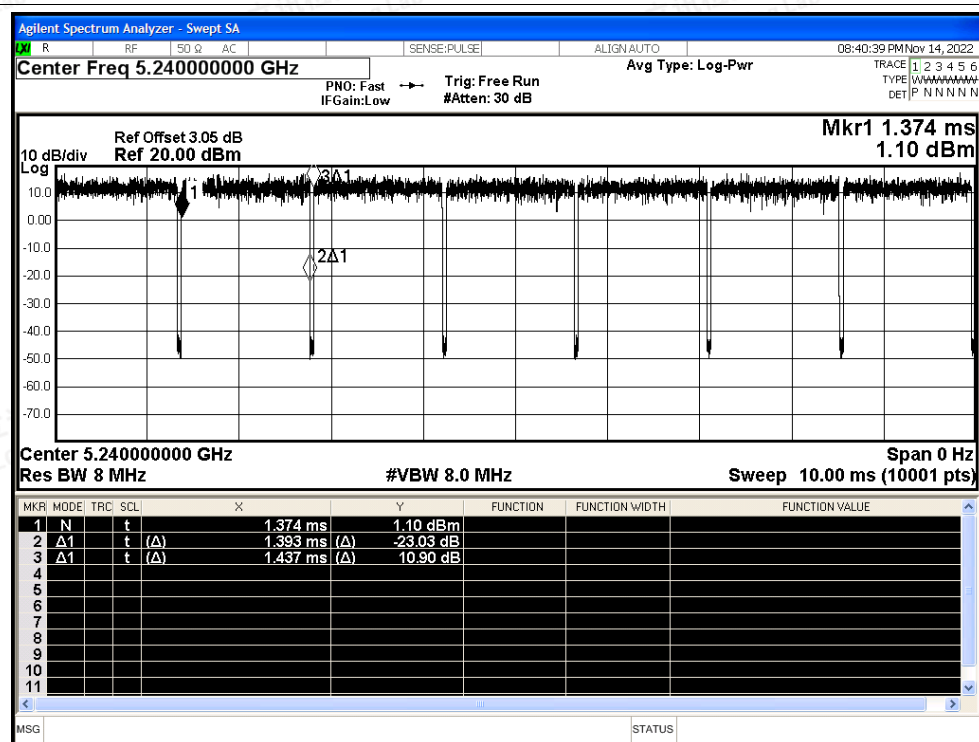


Duty Cycle NVNT a 5200MHz Ant

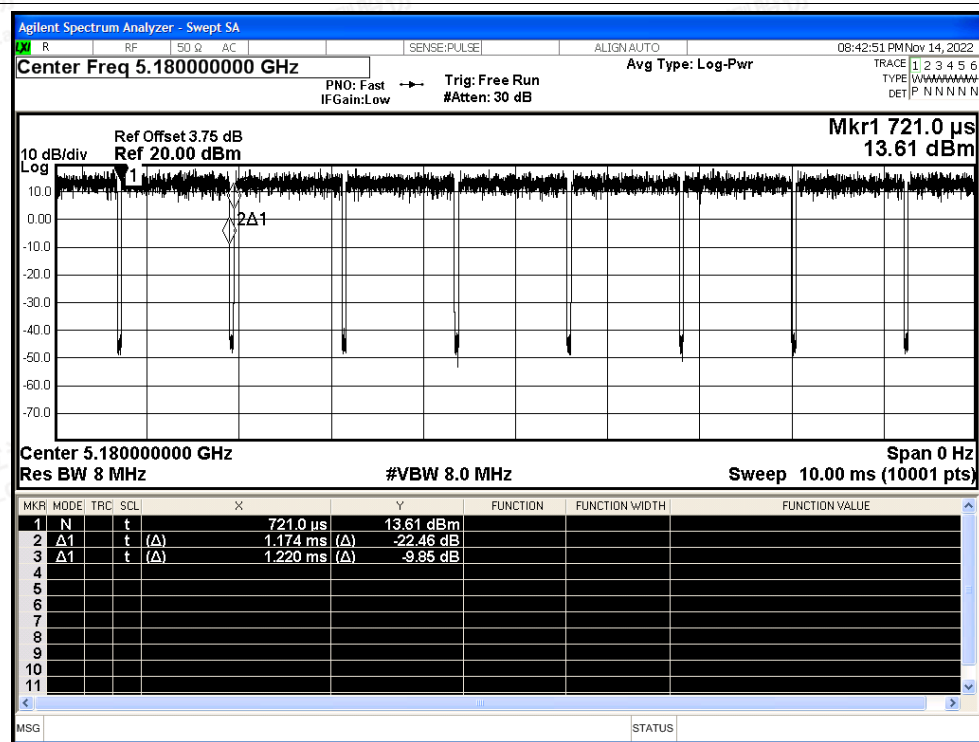




Duty Cycle NVNT a 5240MHz Ant

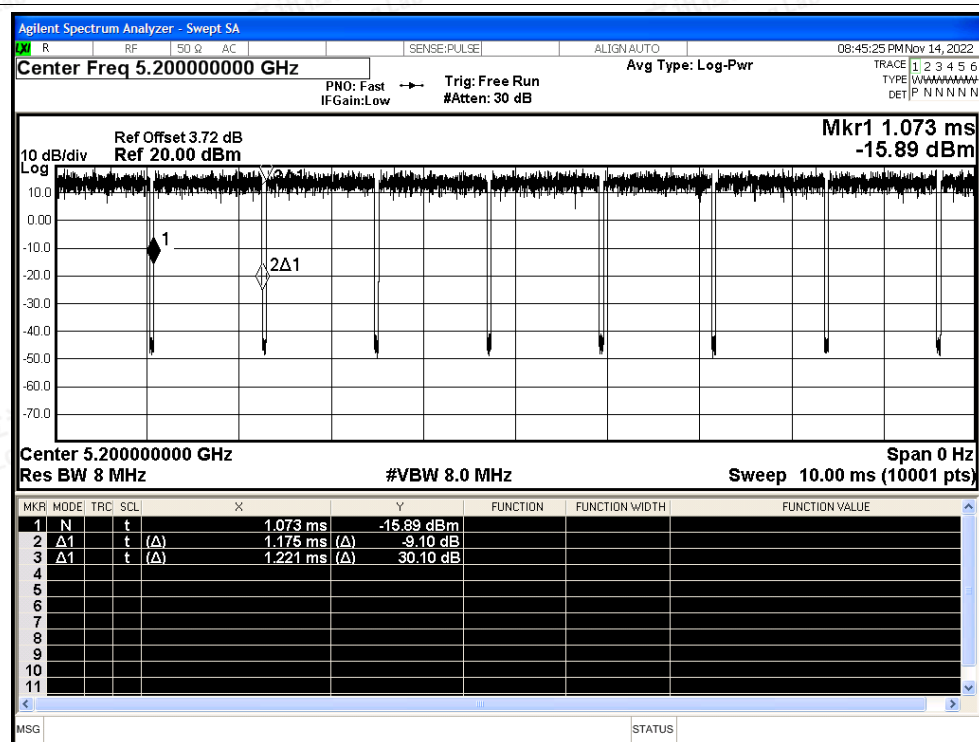


Duty Cycle NVNT n20 5180MHz Ant

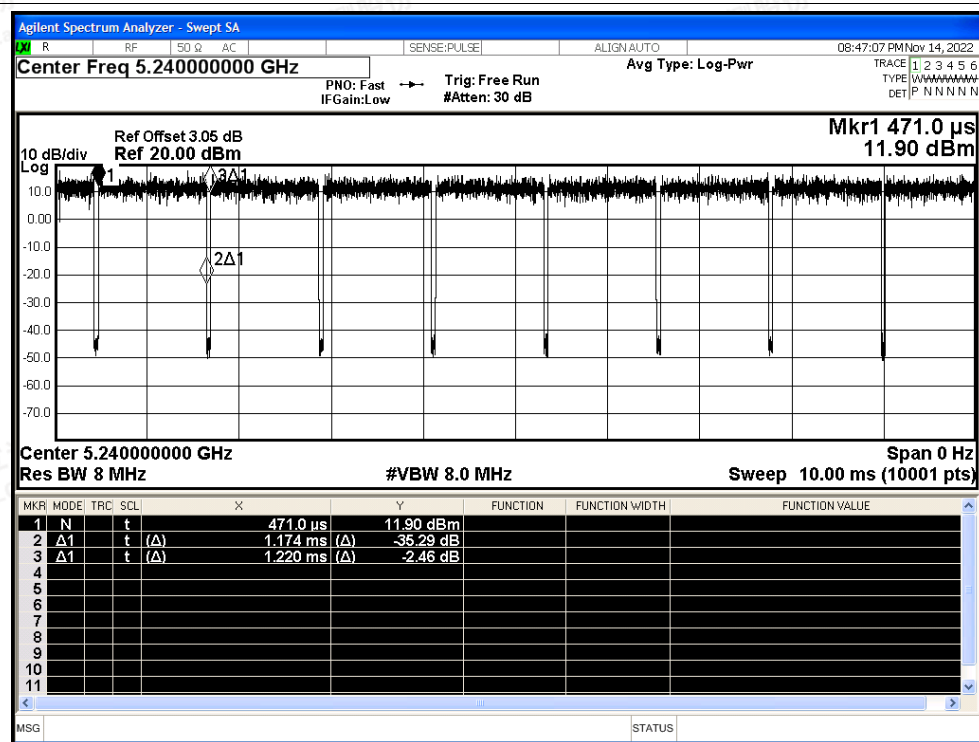




Duty Cycle NVNT n20 5200MHz Ant



Duty Cycle NVNT n20 5240MHz Ant



Shenzhen LCS Compliance Testing Laboratory Ltd.

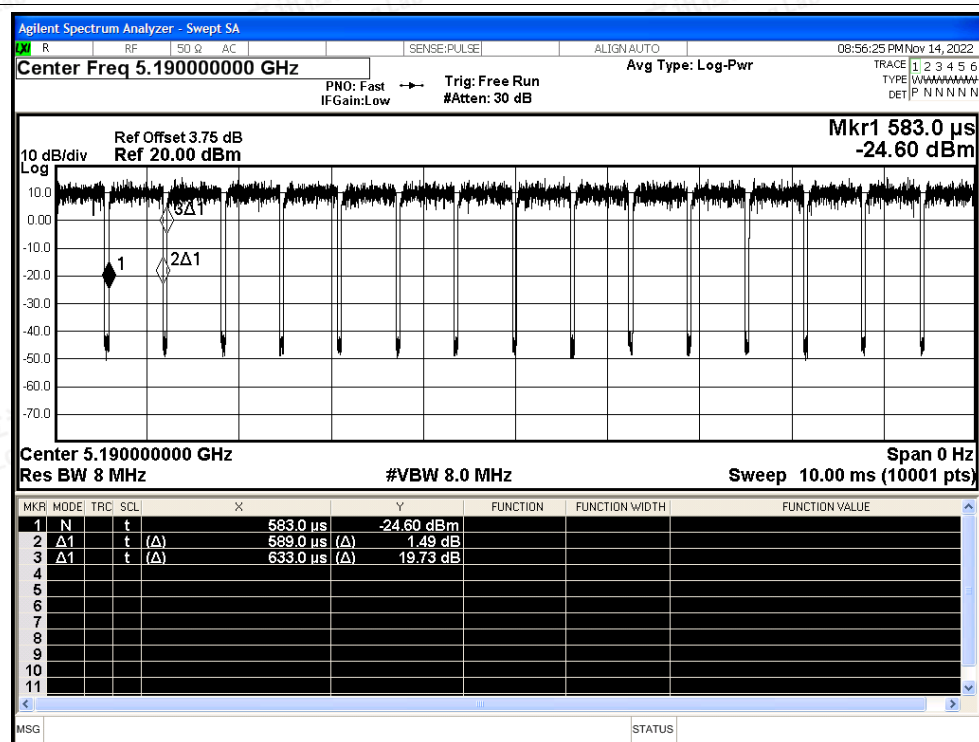
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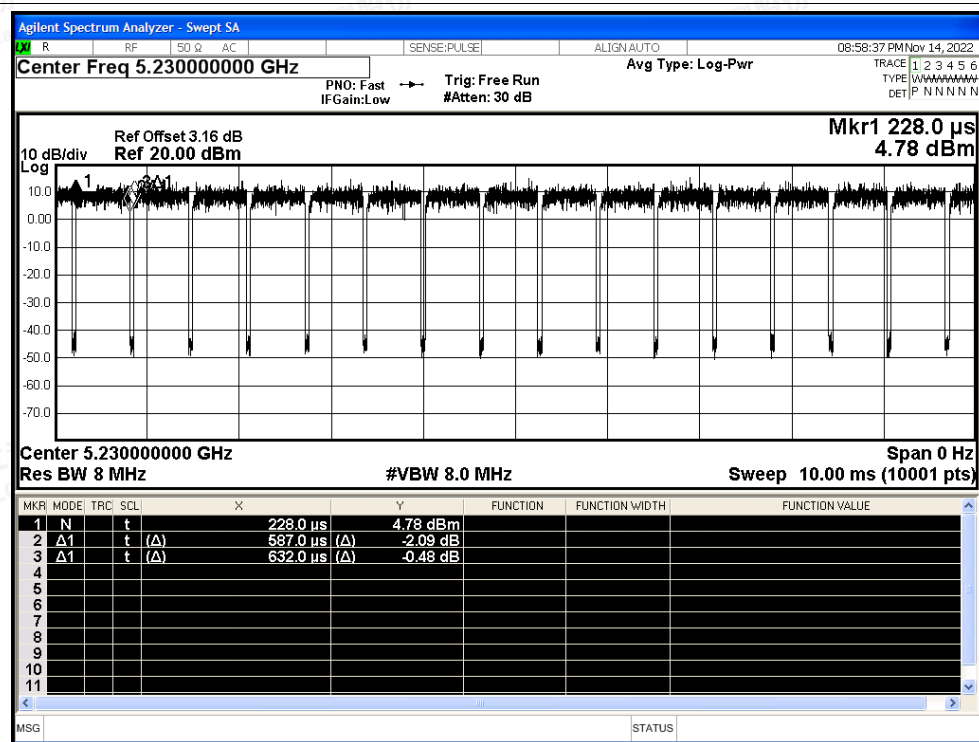
Scan code to check authenticity



Duty Cycle NVNT n40 5190MHz Ant

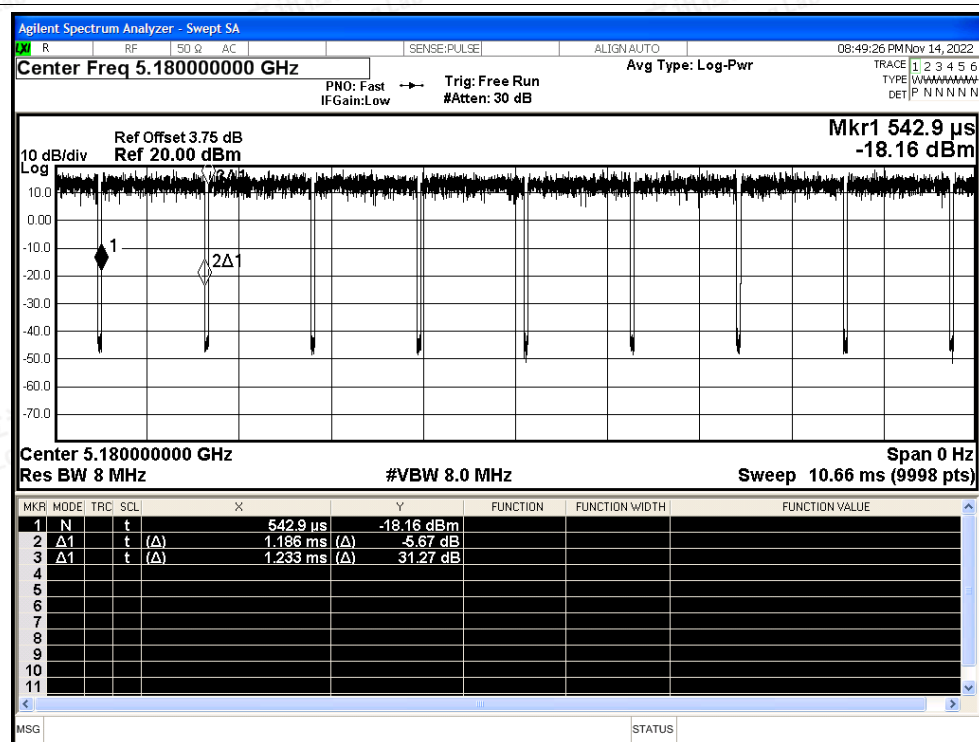


Duty Cycle NVNT n40 5230MHz Ant

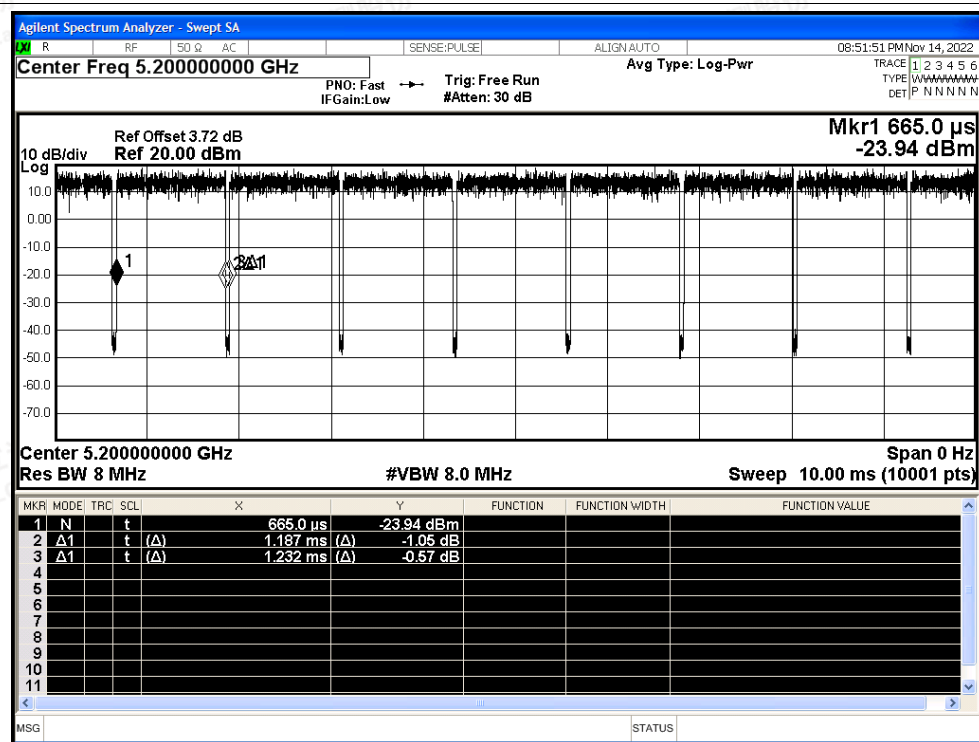




Duty Cycle NVNT ac20 5180MHz Ant

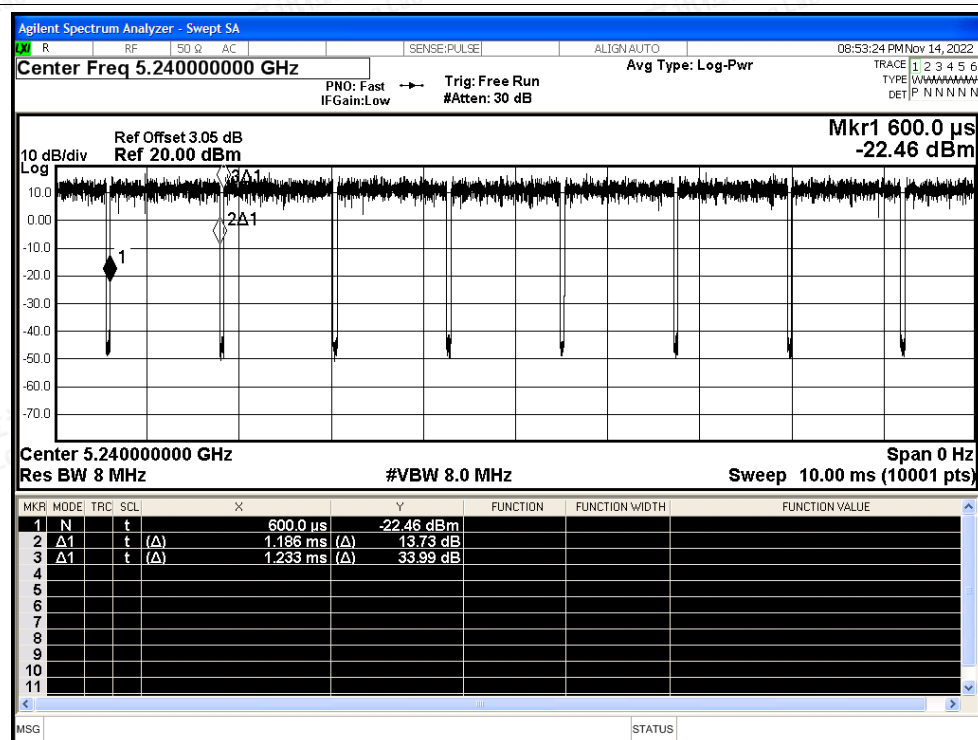


Duty Cycle NVNT ac20 5200MHz Ant

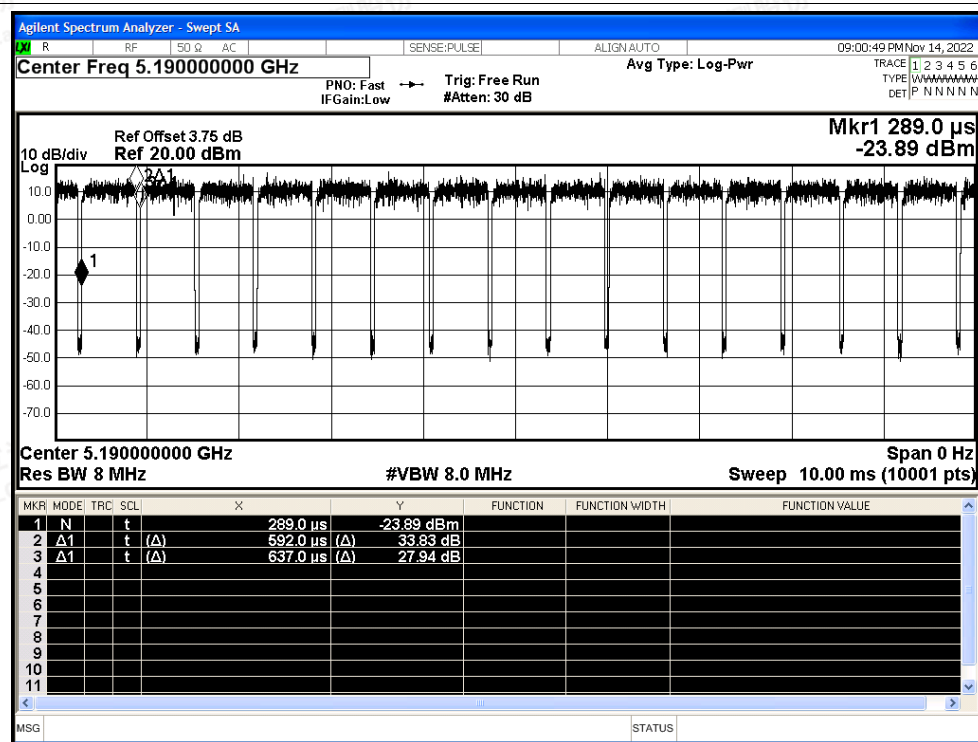




Duty Cycle NVNT ac20 5240MHz Ant

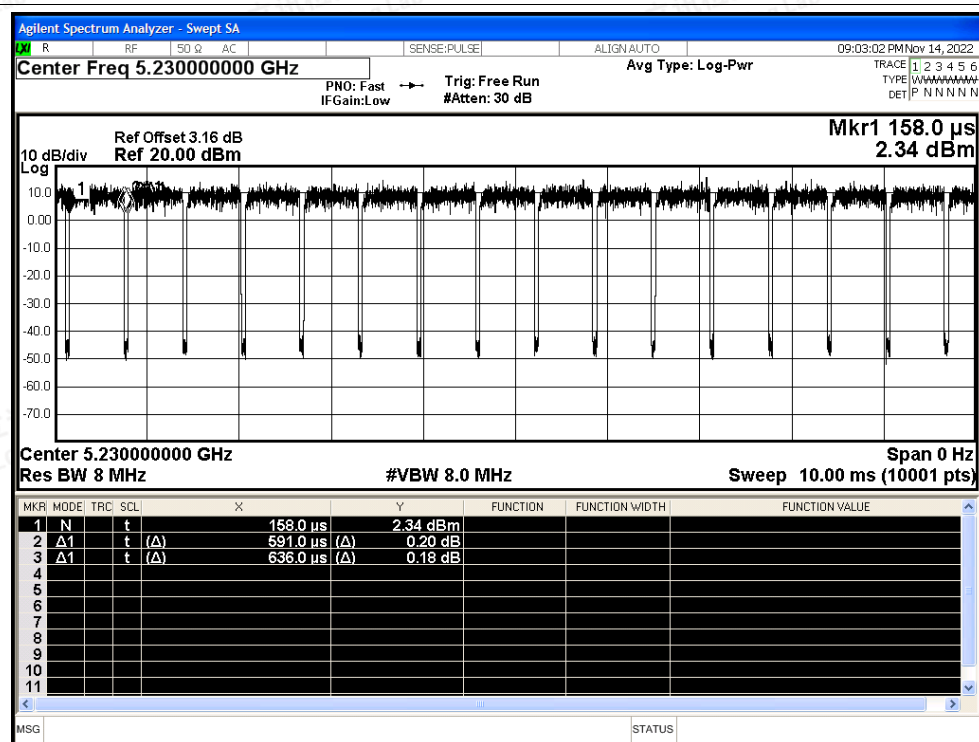


Duty Cycle NVNT ac40 5190MHz Ant





Duty Cycle NVNT ac40 5230MHz Ant



Duty Cycle NVNT ac80 5210MHz Ant

