



Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: projector

Test Model: P1

Environmental Conditions

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



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E.1 -26dB Bandwidth

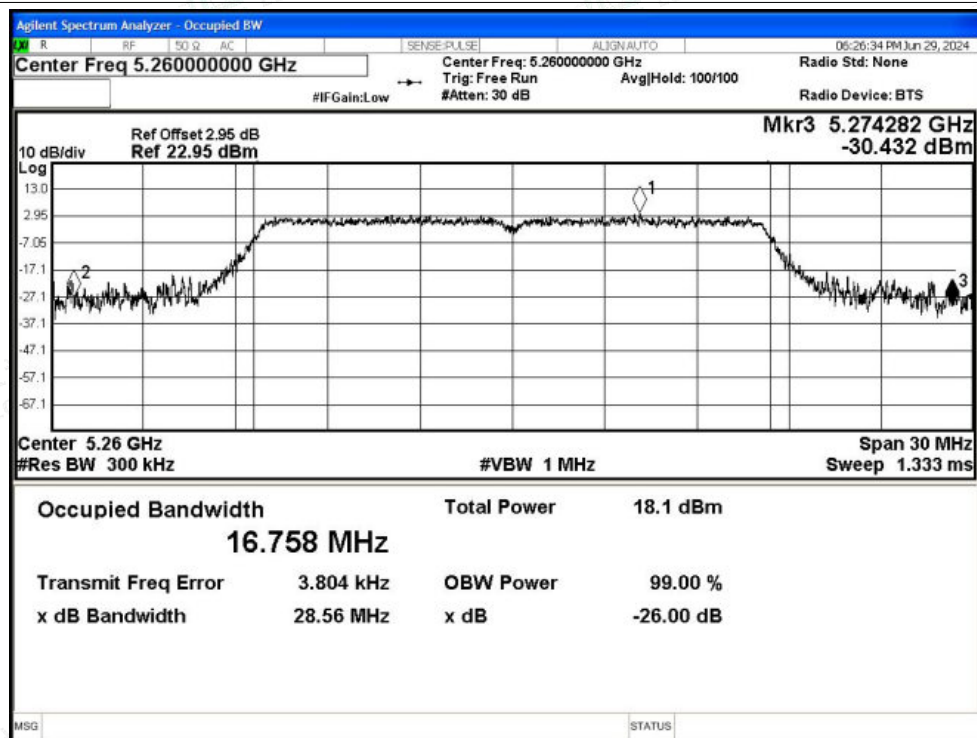
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	28.556	---	Pass
NVNT	a	5300	Ant1	27.692	---	Pass
NVNT	a	5320	Ant1	28.427	---	Pass
NVNT	n20	5260	Ant1	29.365	---	Pass
NVNT	n20	5300	Ant1	27.166	---	Pass
NVNT	n20	5320	Ant1	25.553	---	Pass
NVNT	n40	5270	Ant1	43.576	---	Pass
NVNT	n40	5310	Ant1	45.954	---	Pass
NVNT	ac20	5260	Ant1	28.127	---	Pass
NVNT	ac20	5300	Ant1	29.103	---	Pass
NVNT	ac20	5320	Ant1	29.337	---	Pass
NVNT	ac40	5270	Ant1	45.664	---	Pass
NVNT	ac40	5310	Ant1	45.058	---	Pass
NVNT	ax20	5260	Ant1	27.855	---	Pass
NVNT	ax20	5300	Ant1	26.332	---	Pass
NVNT	ax20	5320	Ant1	27.414	---	Pass
NVNT	ax40	5270	Ant1	41.638	---	Pass
NVNT	ax40	5310	Ant1	50.103	---	Pass



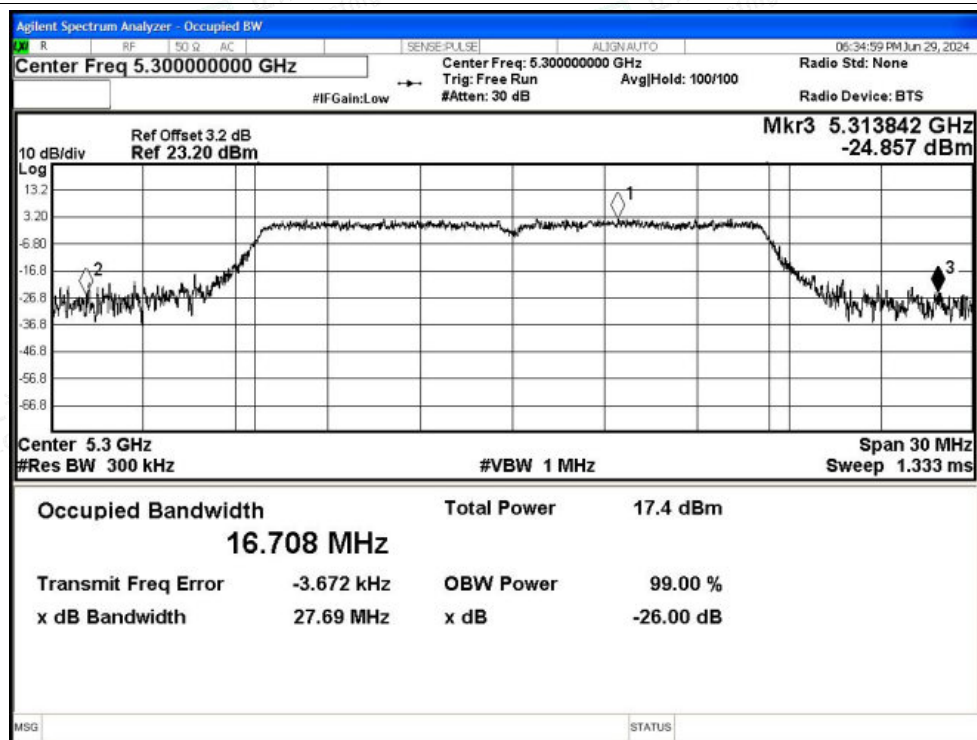


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1



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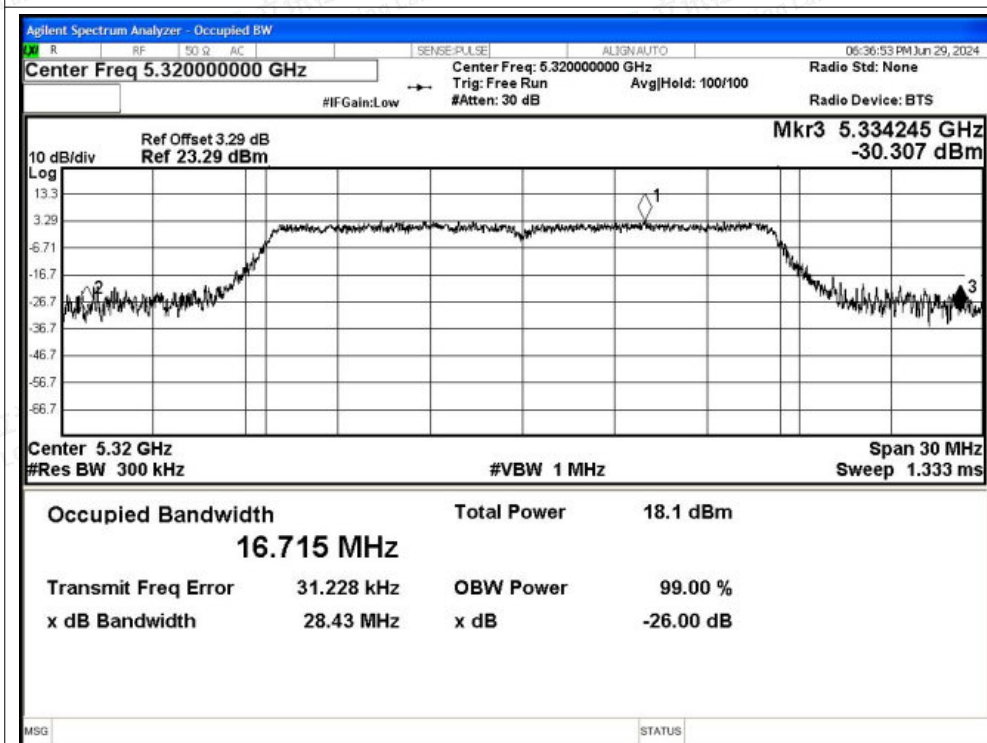
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

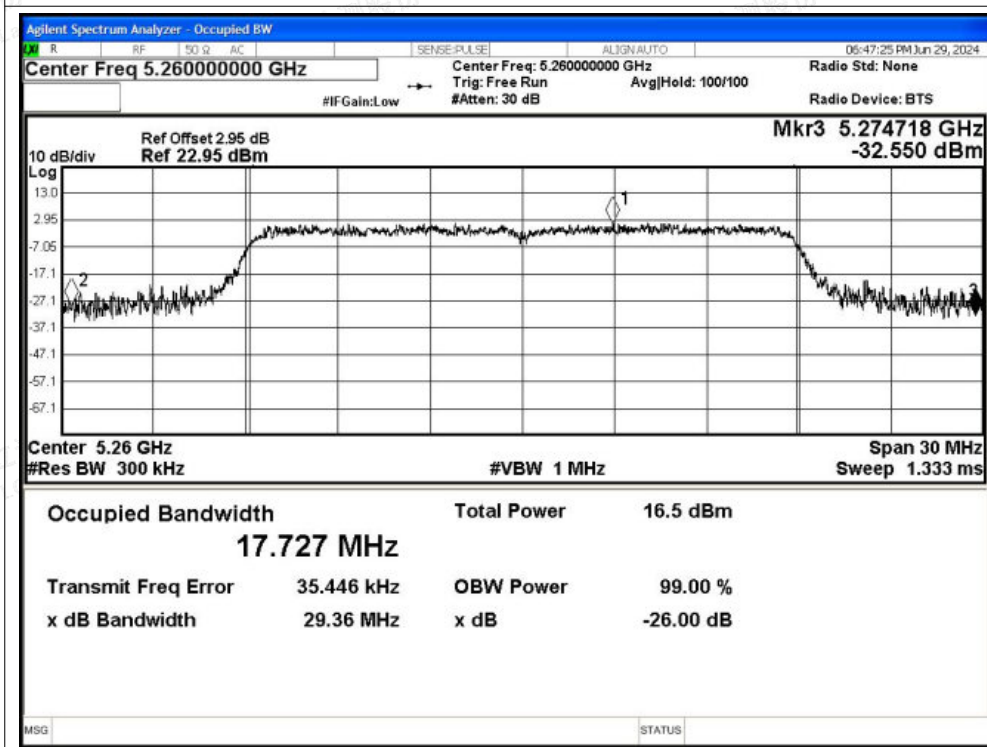
Scan code to check authenticity



-26dB Bandwidth NVNT a 5320MHz Ant1

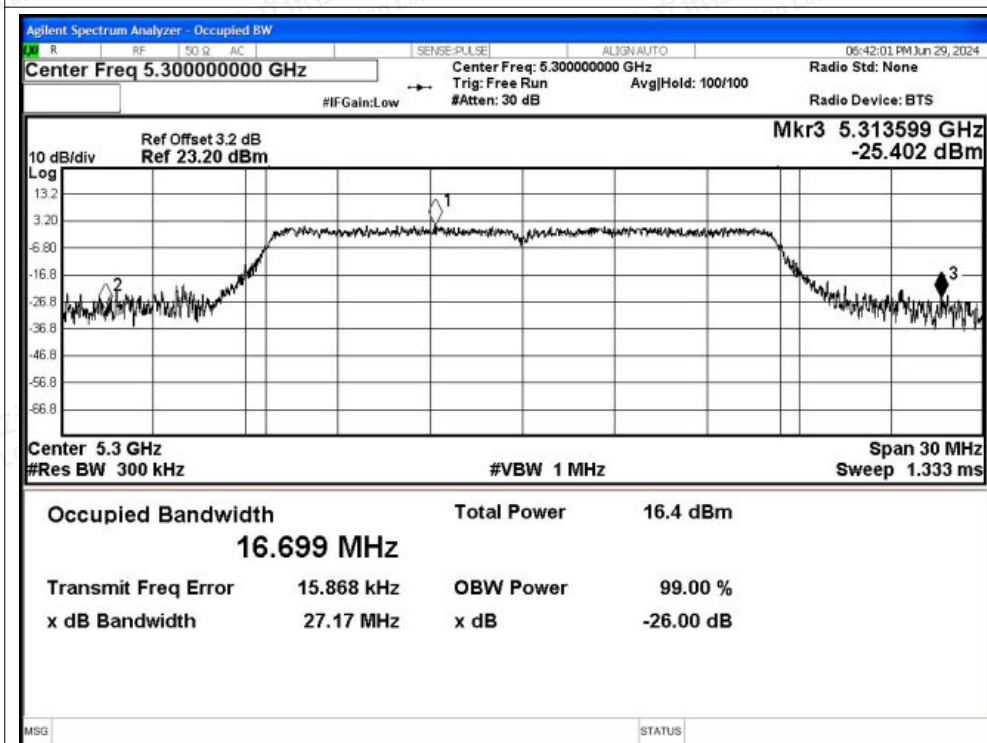


-26dB Bandwidth NVNT n20 5260MHz Ant1

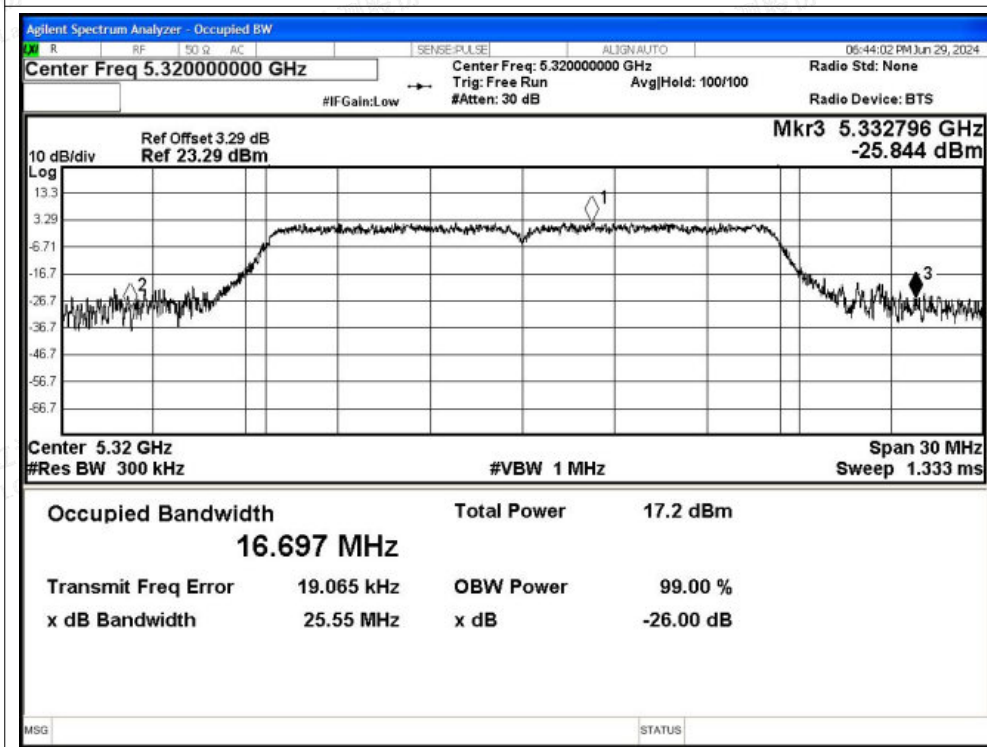




-26dB Bandwidth NVNT n20 5300MHz Ant1

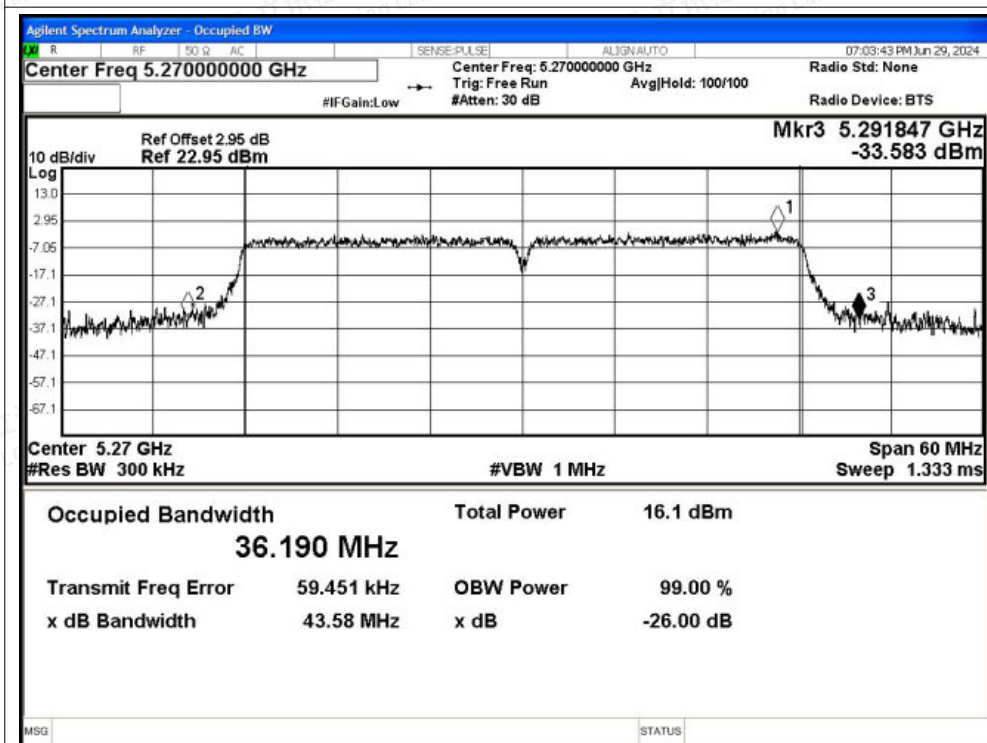


-26dB Bandwidth NVNT n20 5320MHz Ant1

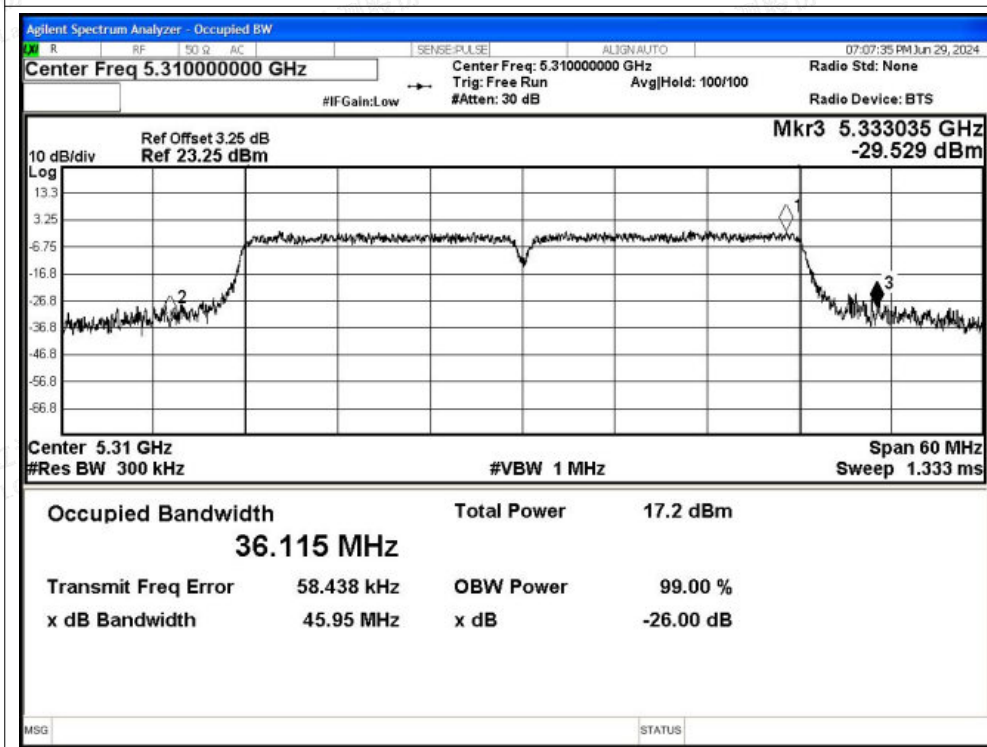




-26dB Bandwidth NVNT n40 5270MHz Ant1

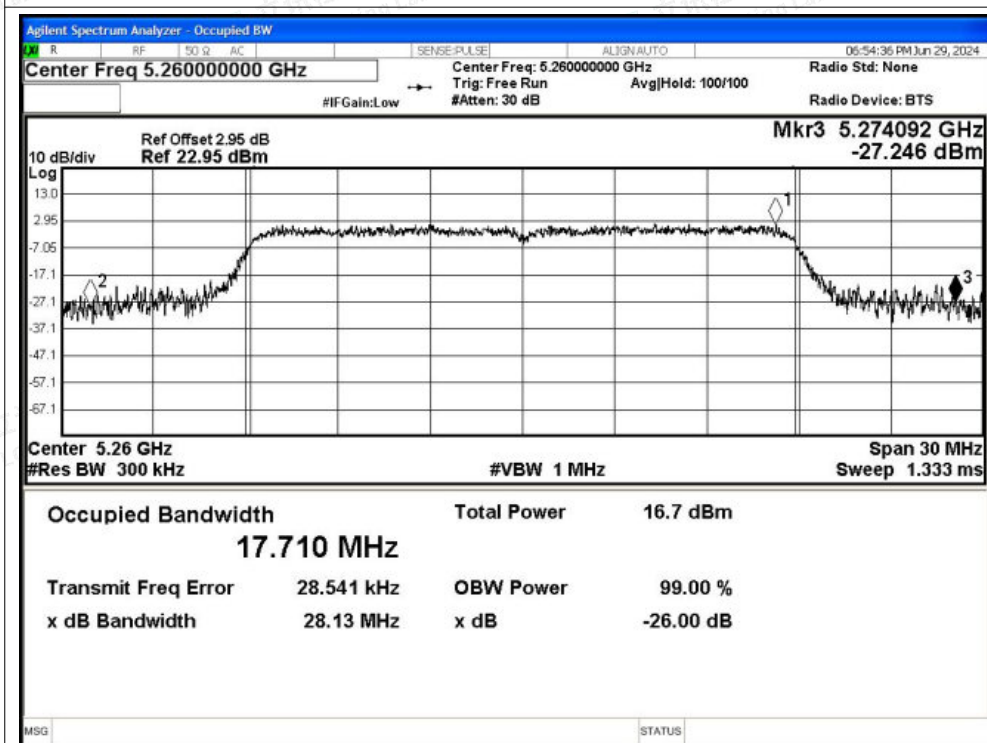


-26dB Bandwidth NVNT n40 5310MHz Ant1

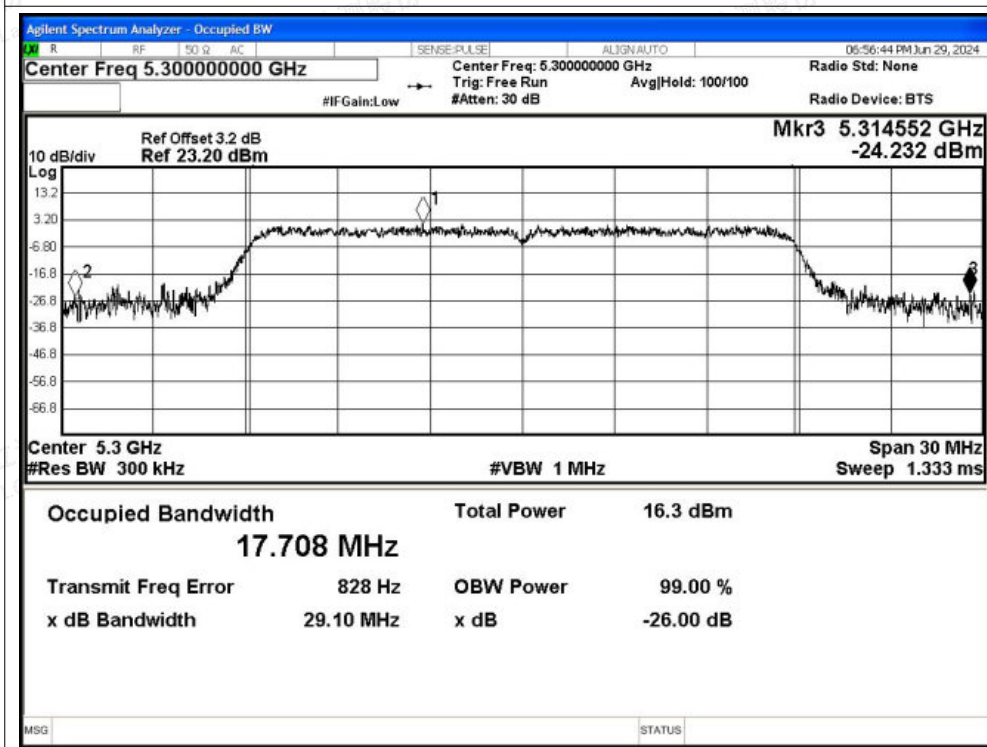




-26dB Bandwidth NVNT ac20 5260MHz Ant1



-26dB Bandwidth NVNT ac20 5300MHz Ant1



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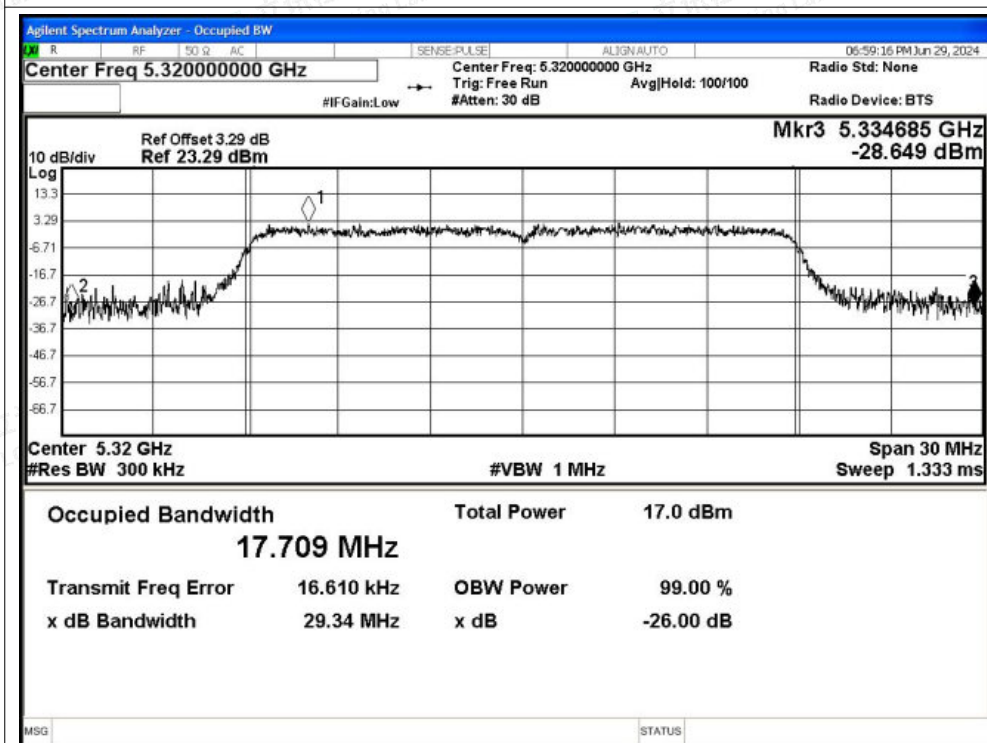
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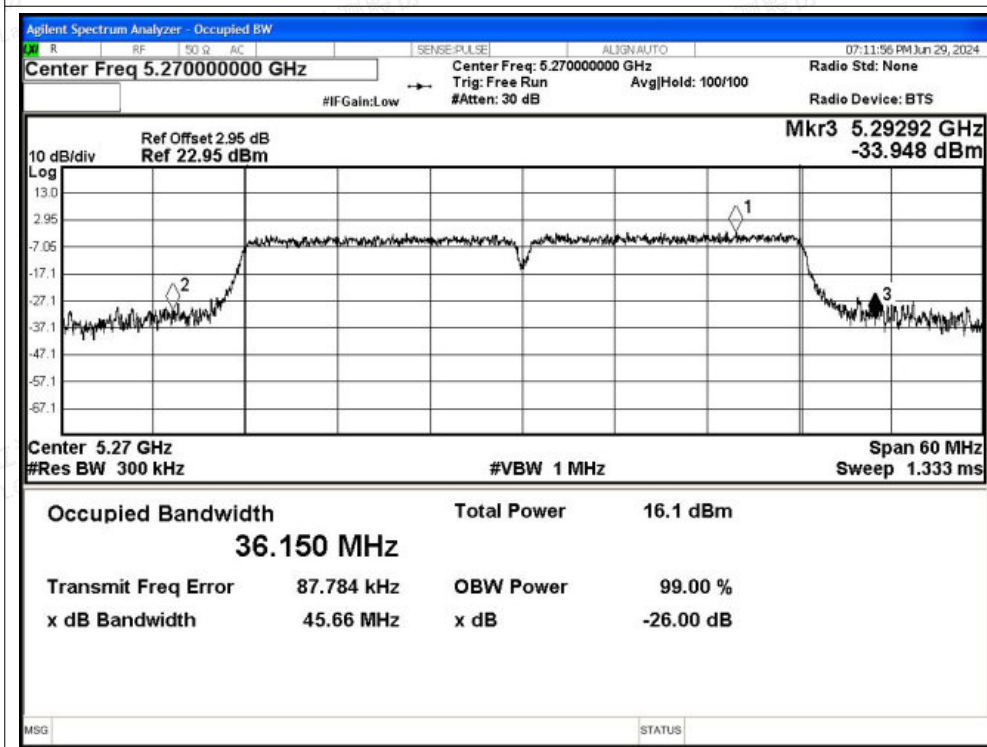
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5320MHz Ant1



-26dB Bandwidth NVNT ac40 5270MHz Ant1



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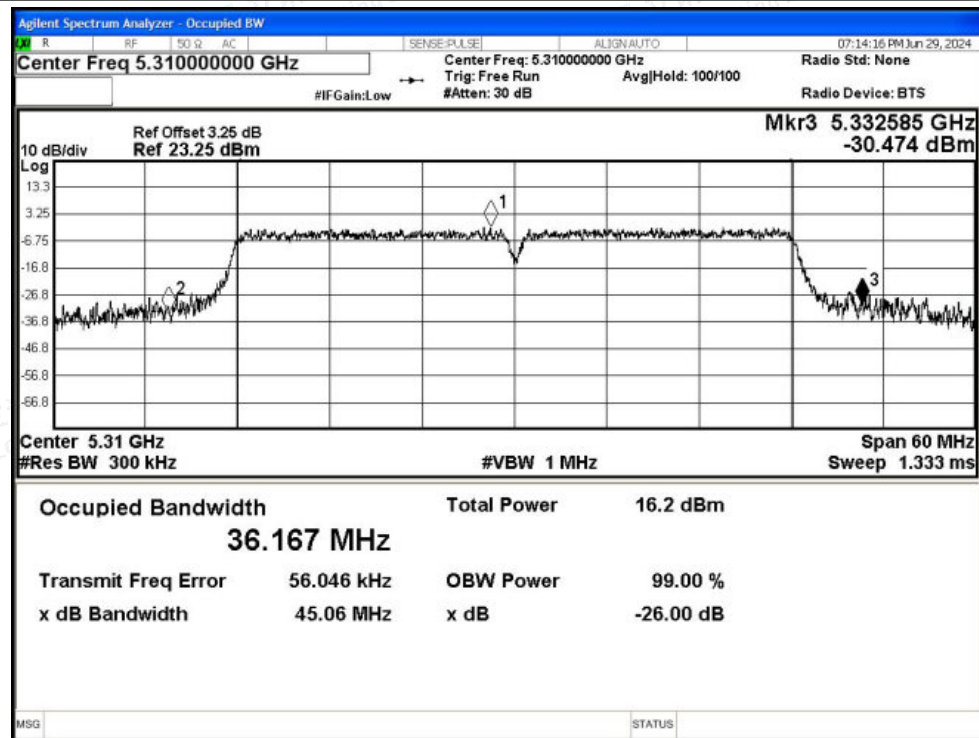
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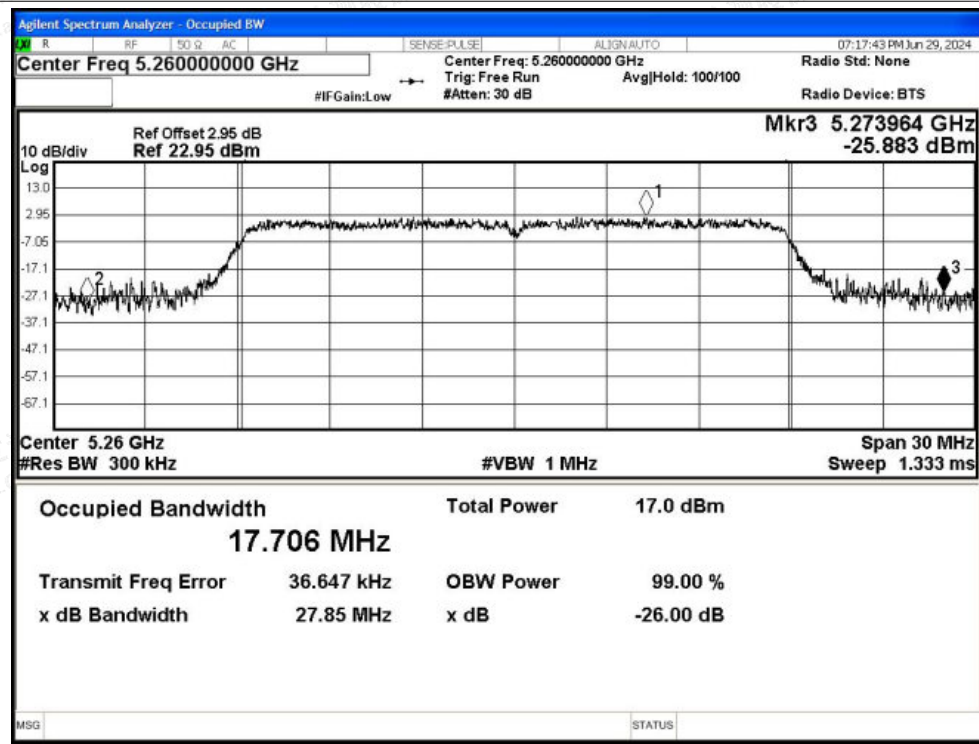
Scan code to check authenticity



-26dB Bandwidth NVNT ac40 5310MHz Ant1

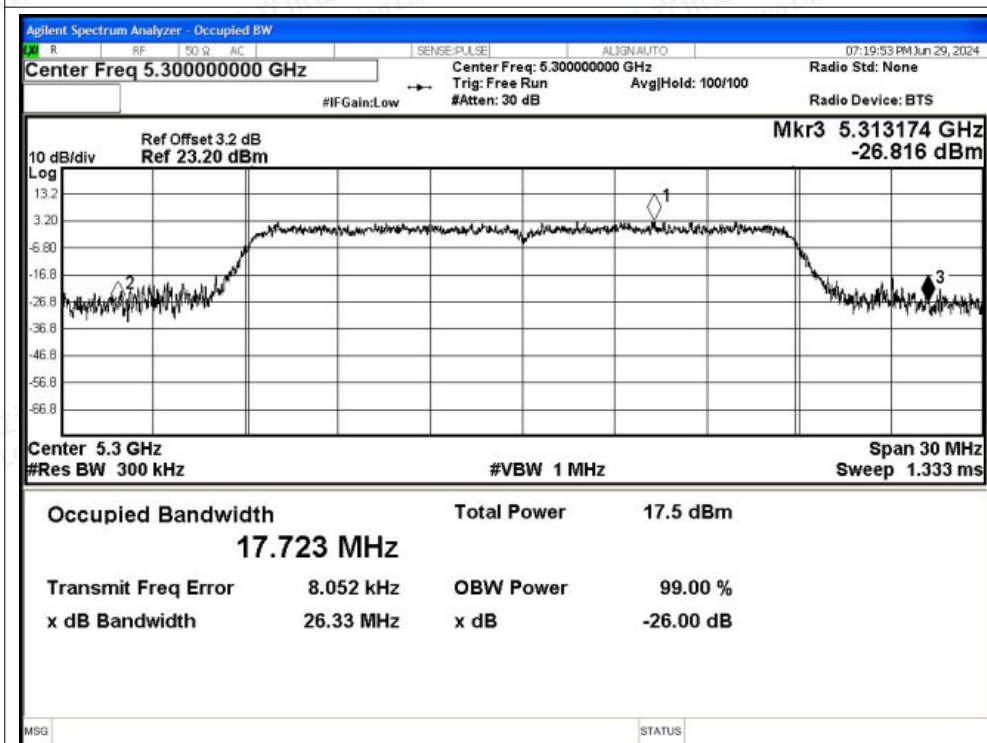


-26dB Bandwidth NVNT ax20 5260MHz Ant1

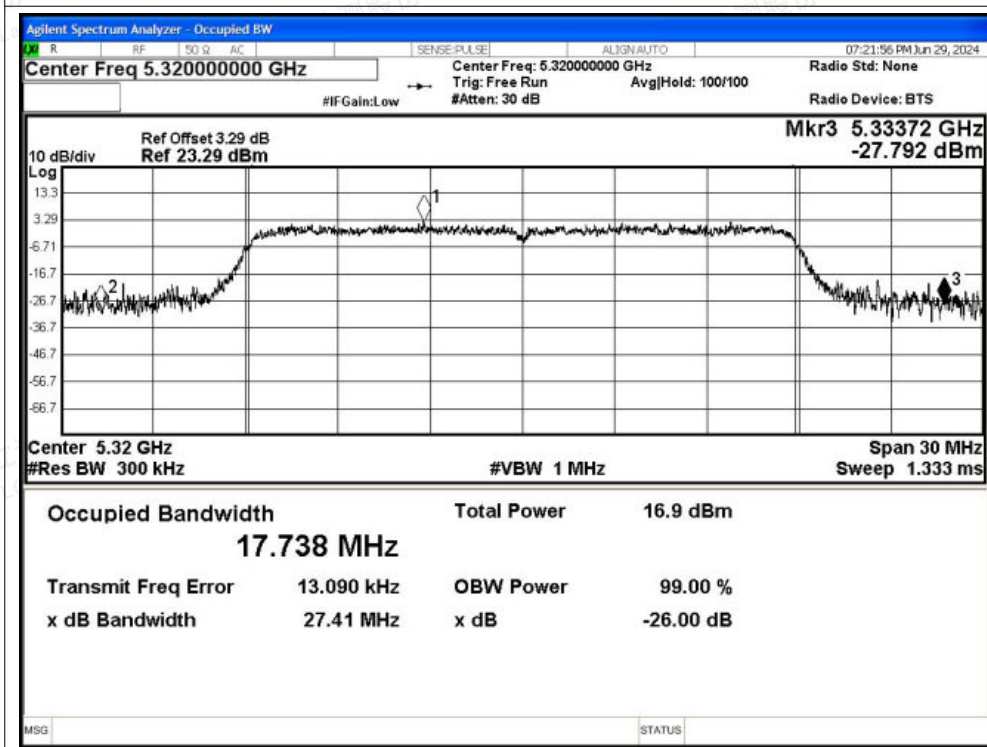




-26dB Bandwidth NVNT ax20 5300MHz Ant1



-26dB Bandwidth NVNT ax20 5320MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

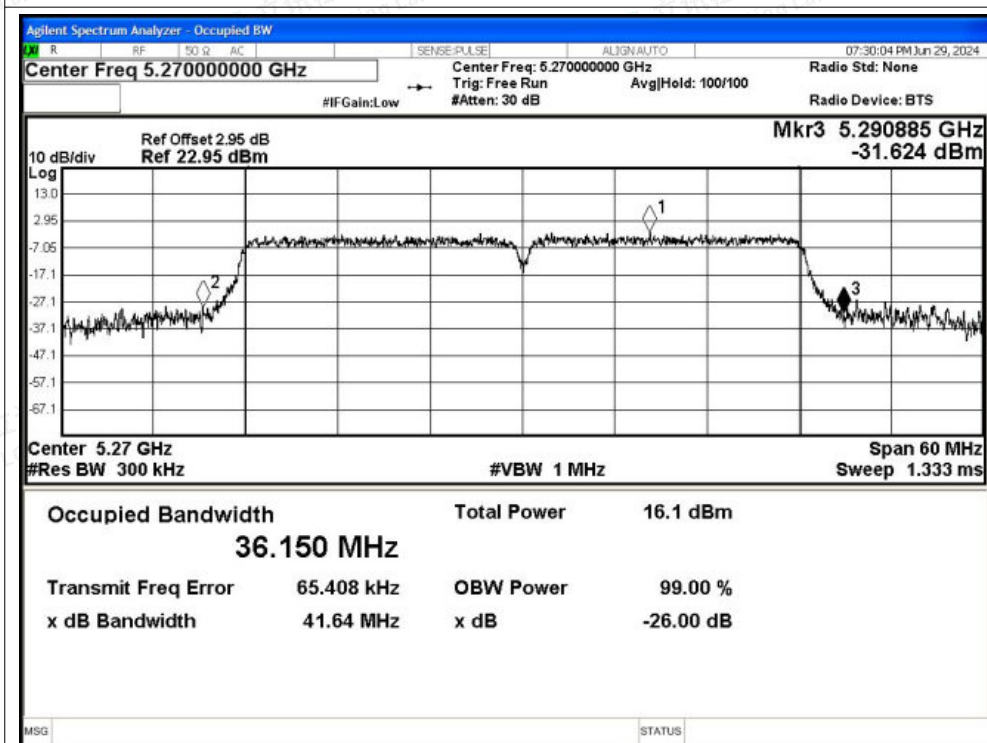
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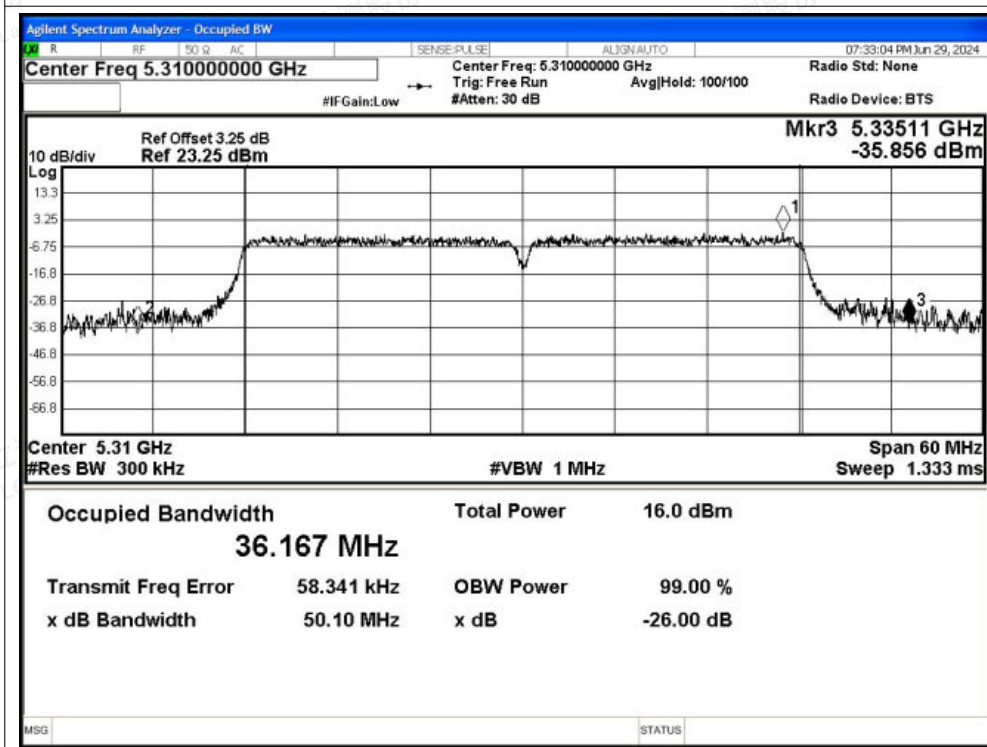
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-26dB Bandwidth NVNT ax40 5270MHz Ant1



-26dB Bandwidth NVNT ax40 5310MHz Ant1



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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.44	0.24	12.68	24	Pass
NVNT	a	5300	Ant1	12.55	0.24	12.79	24	Pass
NVNT	a	5320	Ant1	12.42	0.24	12.66	24	Pass
NVNT	n20	5260	Ant1	11.84	0.23	12.07	24	Pass
NVNT	n20	5300	Ant1	11.67	0.19	11.86	24	Pass
NVNT	n20	5320	Ant1	11.61	0.19	11.80	24	Pass
NVNT	n40	5270	Ant1	10.75	0.45	11.20	24	Pass
NVNT	n40	5310	Ant1	10.18	0.44	10.62	24	Pass
NVNT	ac20	5260	Ant1	11.06	0.23	11.29	24	Pass
NVNT	ac20	5300	Ant1	11.66	0.23	11.89	24	Pass
NVNT	ac20	5320	Ant1	11.47	0.23	11.70	24	Pass
NVNT	ac40	5270	Ant1	10.4	0.44	10.84	24	Pass
NVNT	ac40	5310	Ant1	10.61	0.45	11.06	24	Pass
NVNT	ax20	5260	Ant1	11.27	0.23	11.50	24	Pass
NVNT	ax20	5300	Ant1	11.82	0.23	12.05	24	Pass
NVNT	ax20	5320	Ant1	11.4	0.23	11.63	24	Pass
NVNT	ax40	5270	Ant1	10.11	0.45	10.56	24	Pass
NVNT	ax40	5310	Ant1	10.17	0.45	10.62	24	Pass





E.3 Maximum Power Spectral Density Level

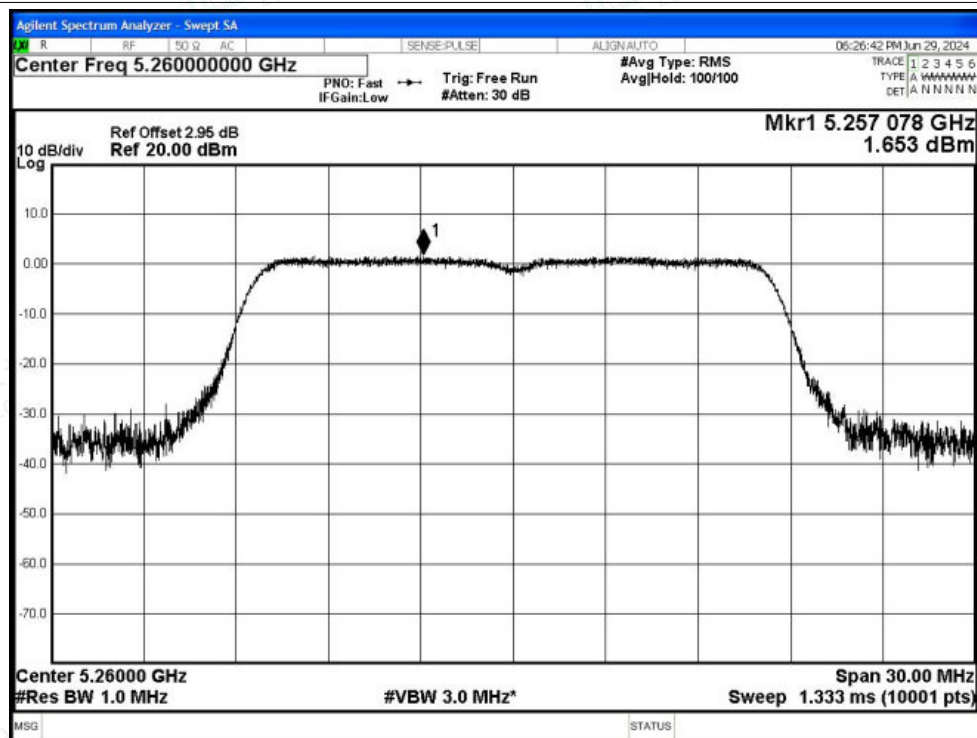
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	1.65	0.24	1.89	11	Pass
NVNT	a	5300	Ant1	1.24	0.24	1.48	11	Pass
NVNT	a	5320	Ant1	1.77	0.24	2.01	11	Pass
NVNT	n20	5260	Ant1	0.15	0.23	0.38	11	Pass
NVNT	n20	5300	Ant1	0.11	0.19	0.30	11	Pass
NVNT	n20	5320	Ant1	0.96	0.19	1.15	11	Pass
NVNT	n40	5270	Ant1	-3.45	0.45	-3.00	11	Pass
NVNT	n40	5310	Ant1	-2.33	0.44	-1.89	11	Pass
NVNT	ac20	5260	Ant1	0.48	0.23	0.71	11	Pass
NVNT	ac20	5300	Ant1	-0.04	0.23	0.19	11	Pass
NVNT	ac20	5320	Ant1	0.78	0.23	1.01	11	Pass
NVNT	ac40	5270	Ant1	-3.32	0.44	-2.88	11	Pass
NVNT	ac40	5310	Ant1	-3.39	0.45	-2.94	11	Pass
NVNT	ax20	5260	Ant1	0.63	0.23	0.86	11	Pass
NVNT	ax20	5300	Ant1	1.09	0.23	1.32	11	Pass
NVNT	ax20	5320	Ant1	0.68	0.23	0.91	11	Pass
NVNT	ax40	5270	Ant1	-3.56	0.45	-3.11	11	Pass
NVNT	ax40	5310	Ant1	-3.66	0.45	-3.21	11	Pass



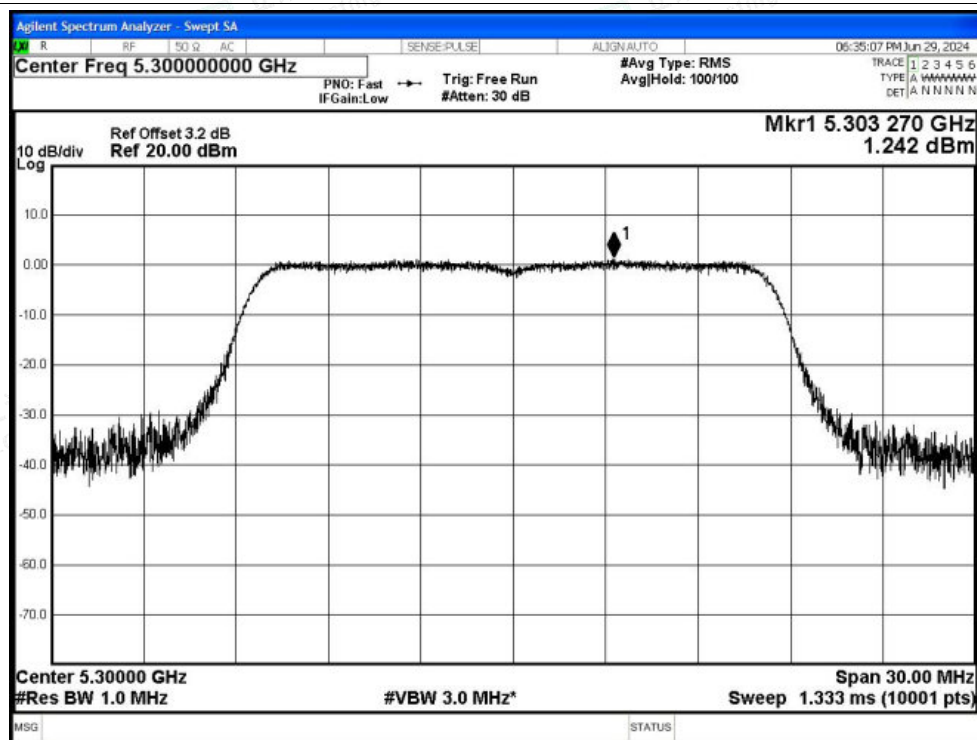


Test Graphs

PSD NVNT a 5260MHz Ant1

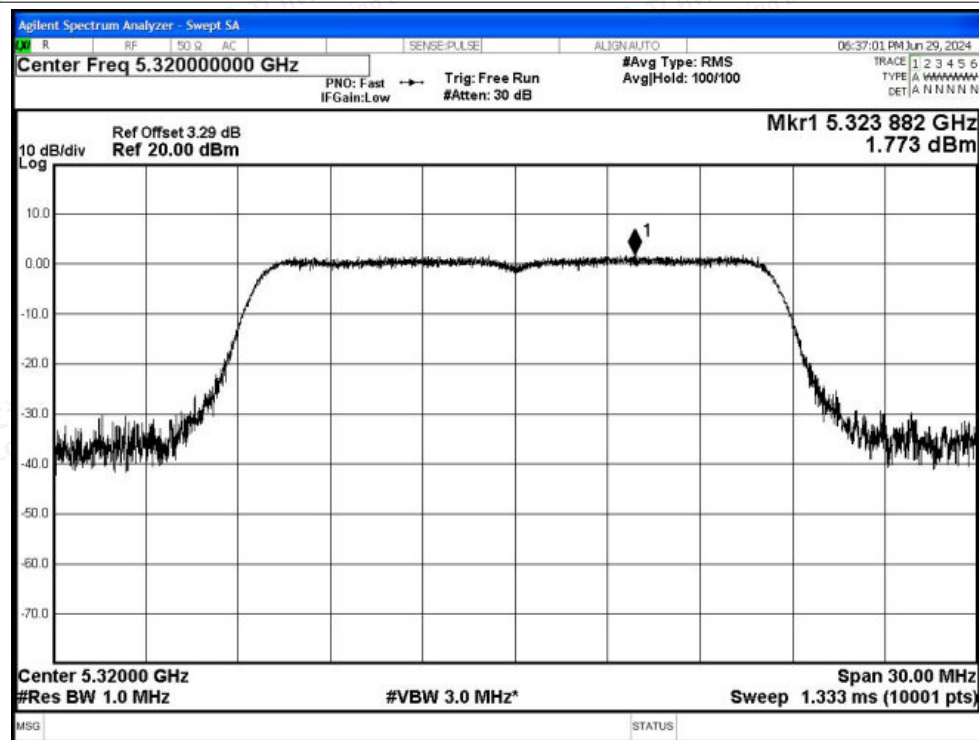


PSD NVNT a 5300MHz Ant1

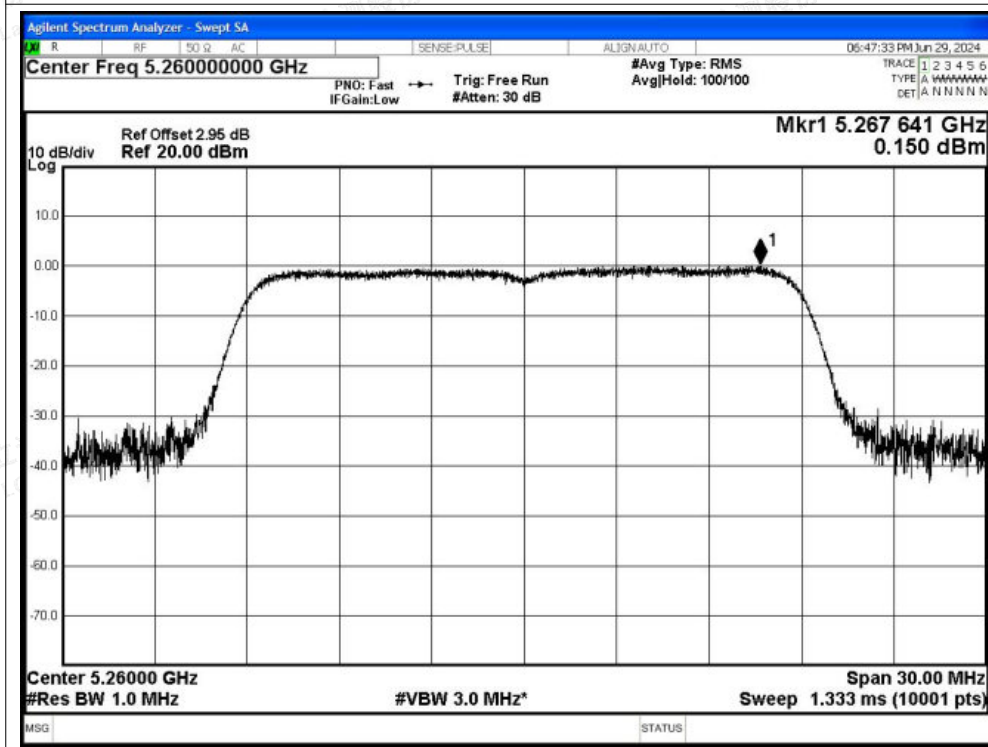




PSD NVNT a 5320MHz Ant1

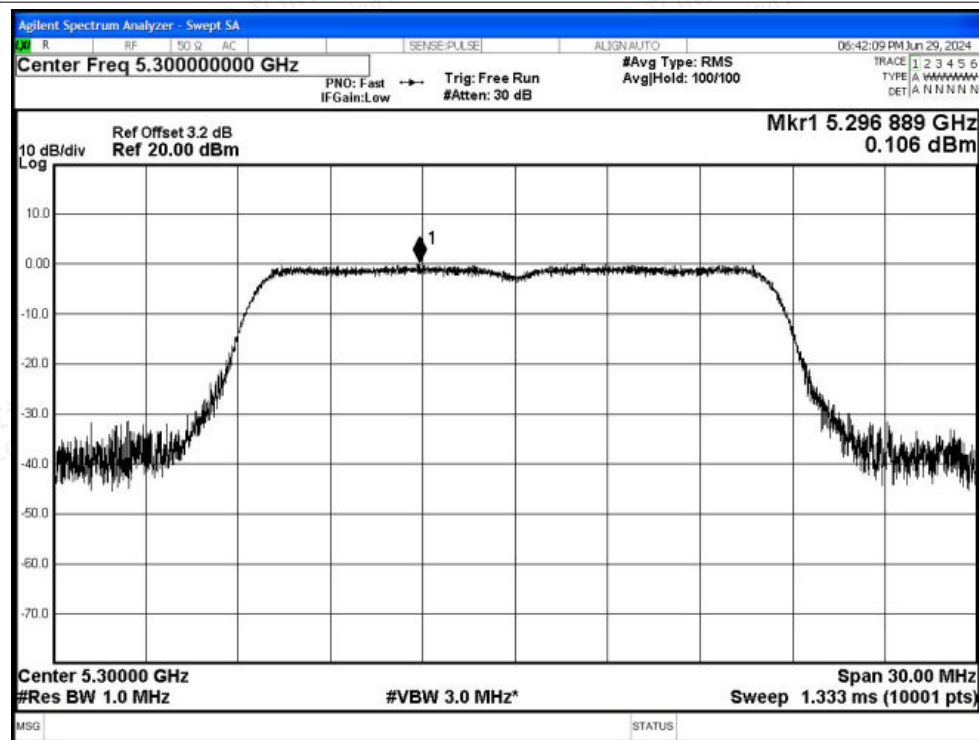


PSD NVNT n20 5260MHz Ant1

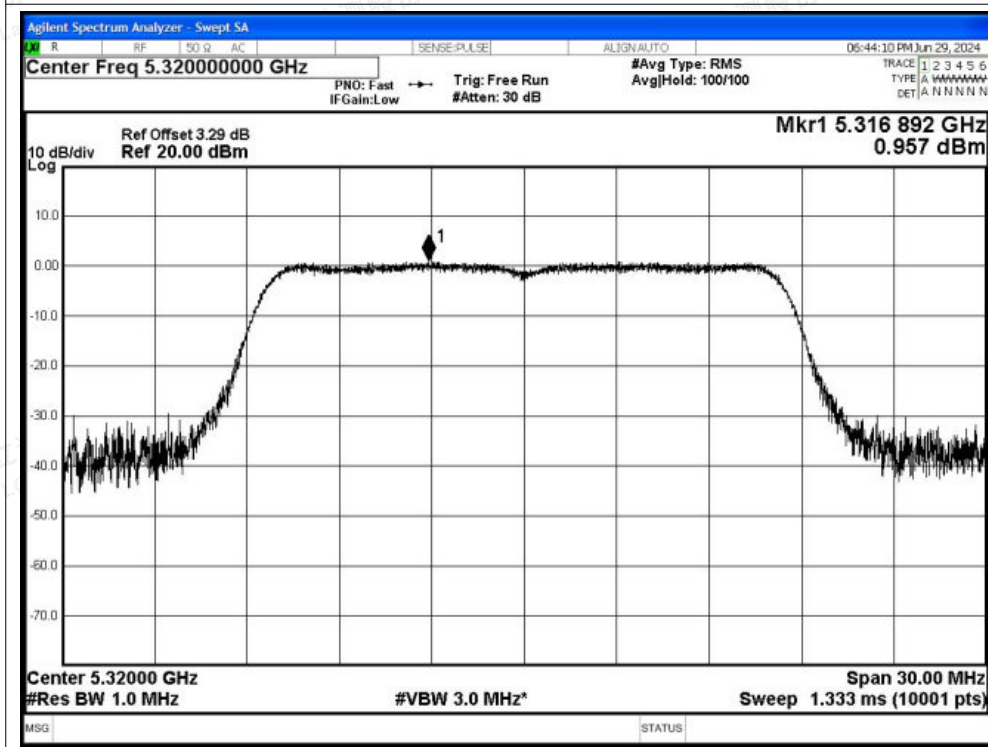




PSD NVNT n20 5300MHz Ant1

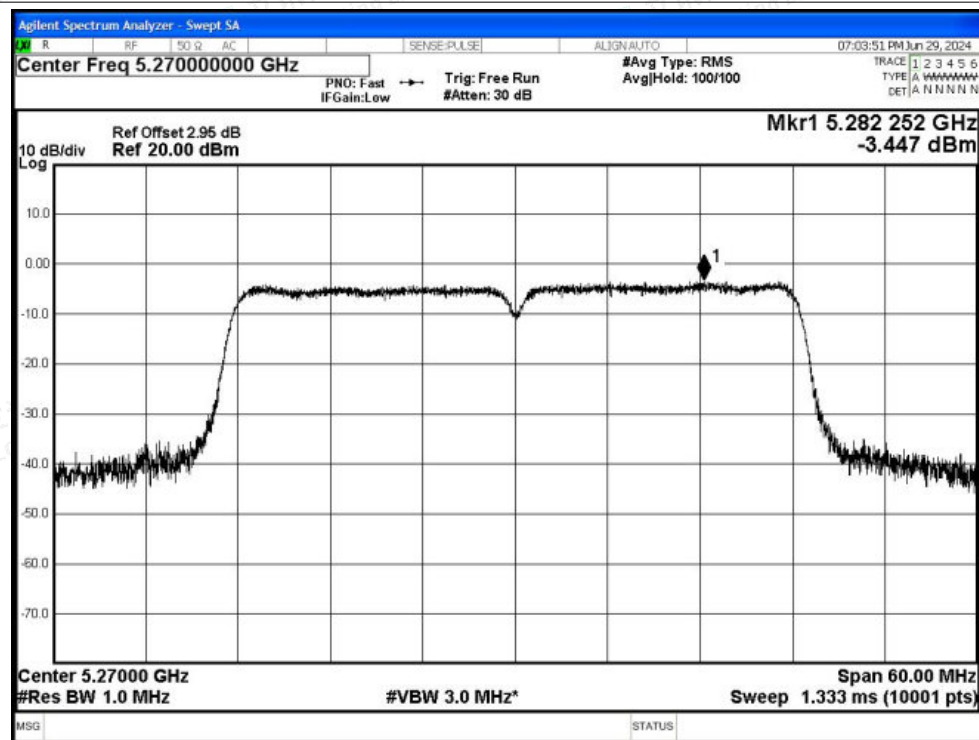


PSD NVNT n20 5320MHz Ant1

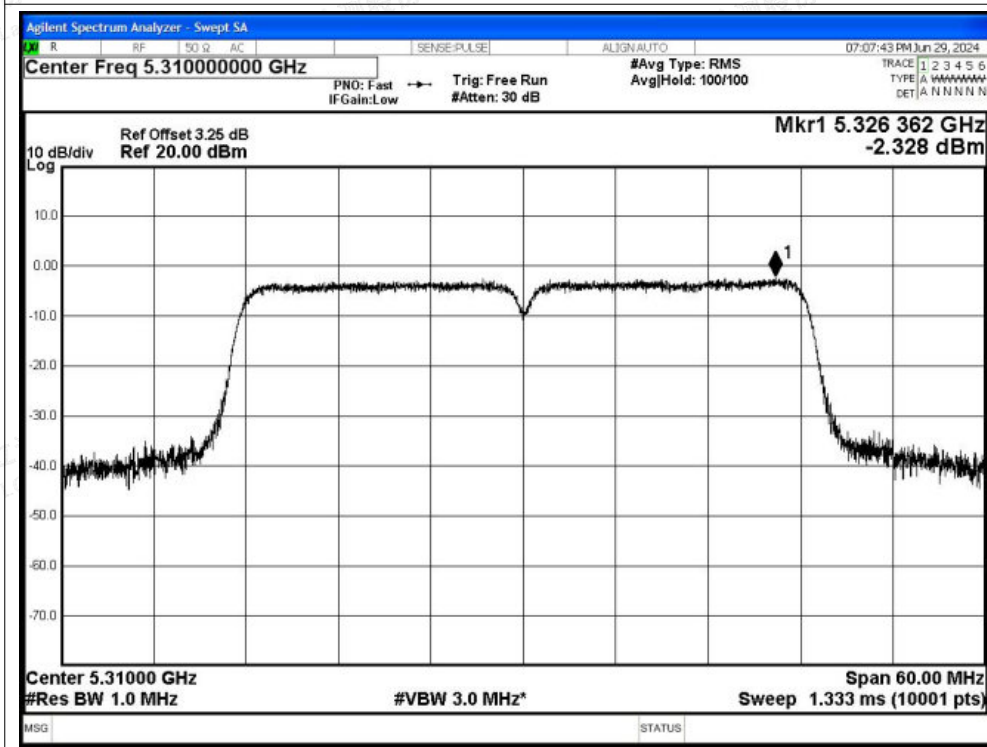




PSD NVNT n40 5270MHz Ant1

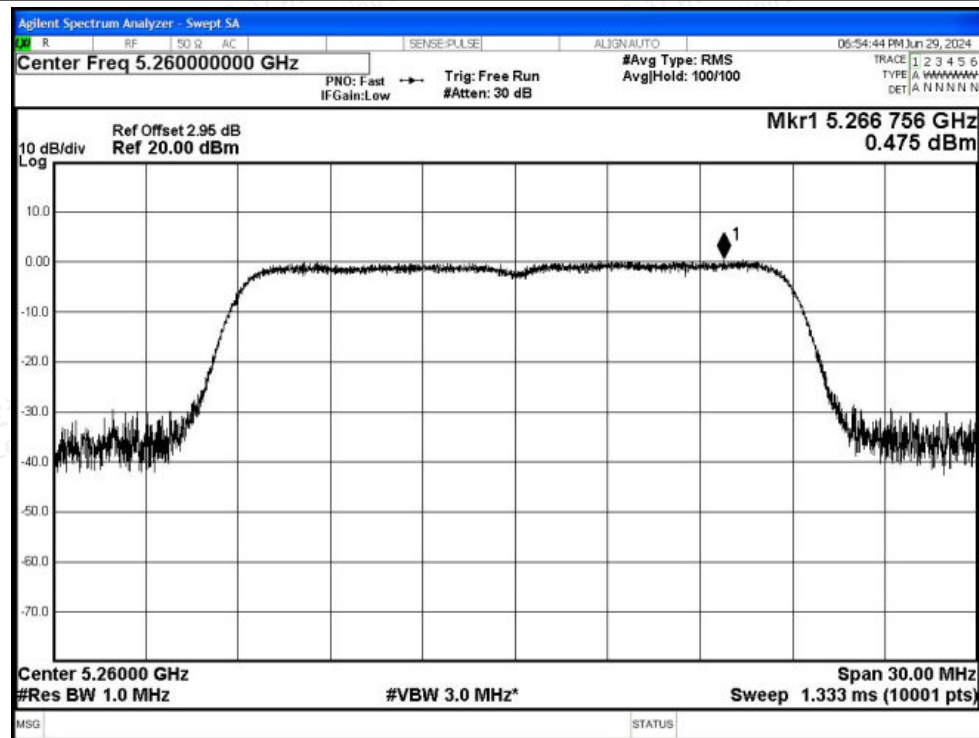


PSD NVNT n40 5310MHz Ant1

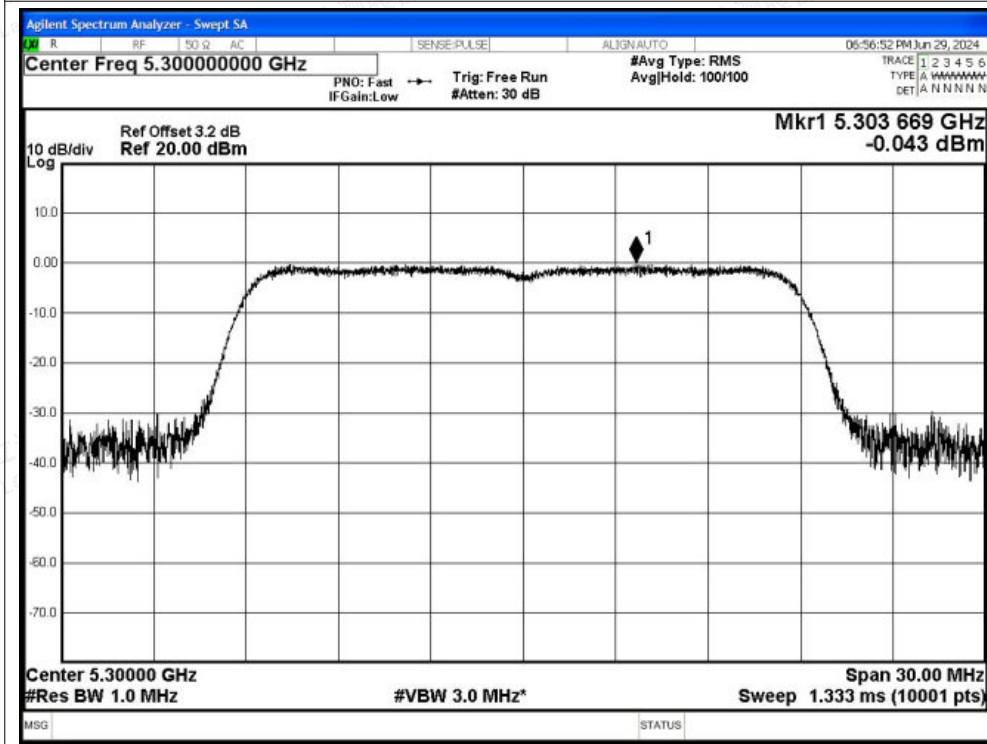




PSD NVNT ac20 5260MHz Ant1

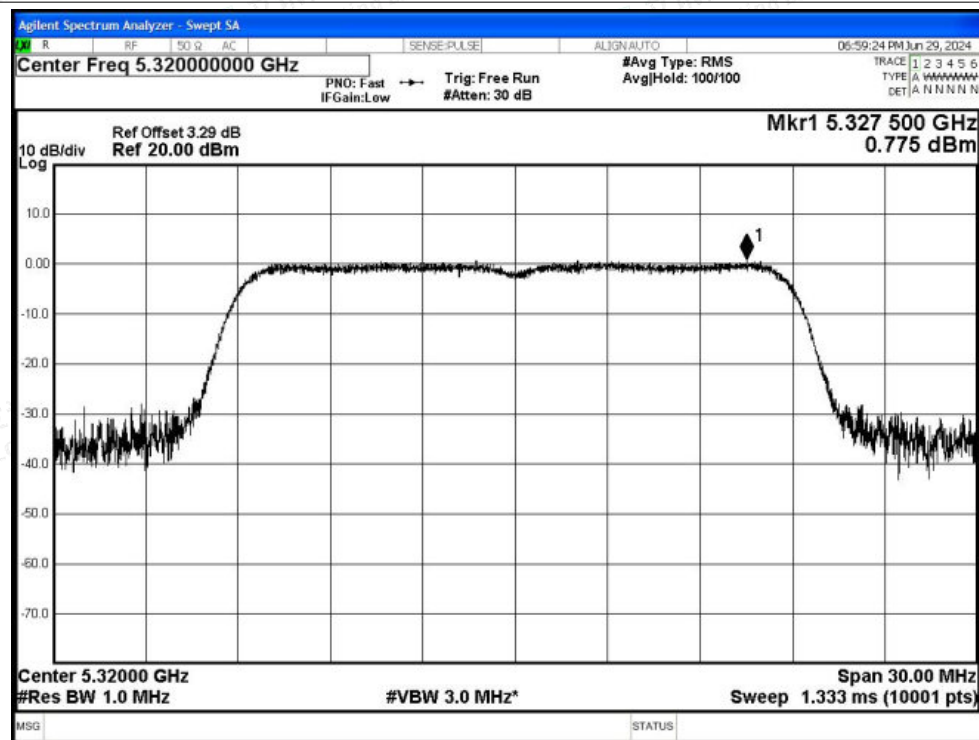


PSD NVNT ac20 5300MHz Ant1

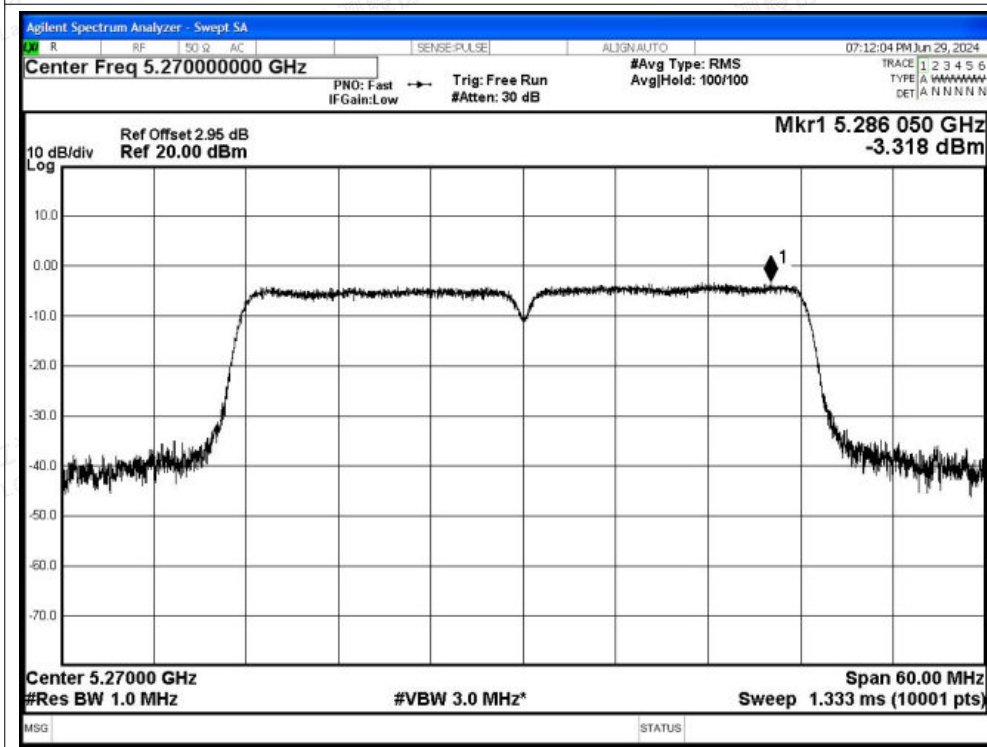




PSD NVNT ac20 5320MHz Ant1

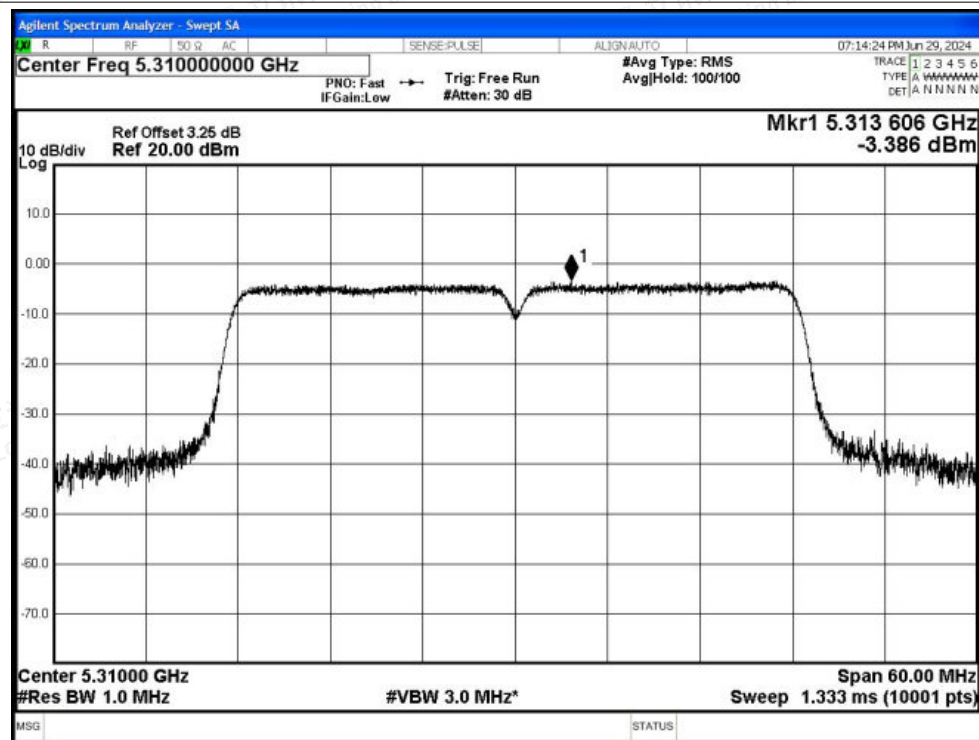


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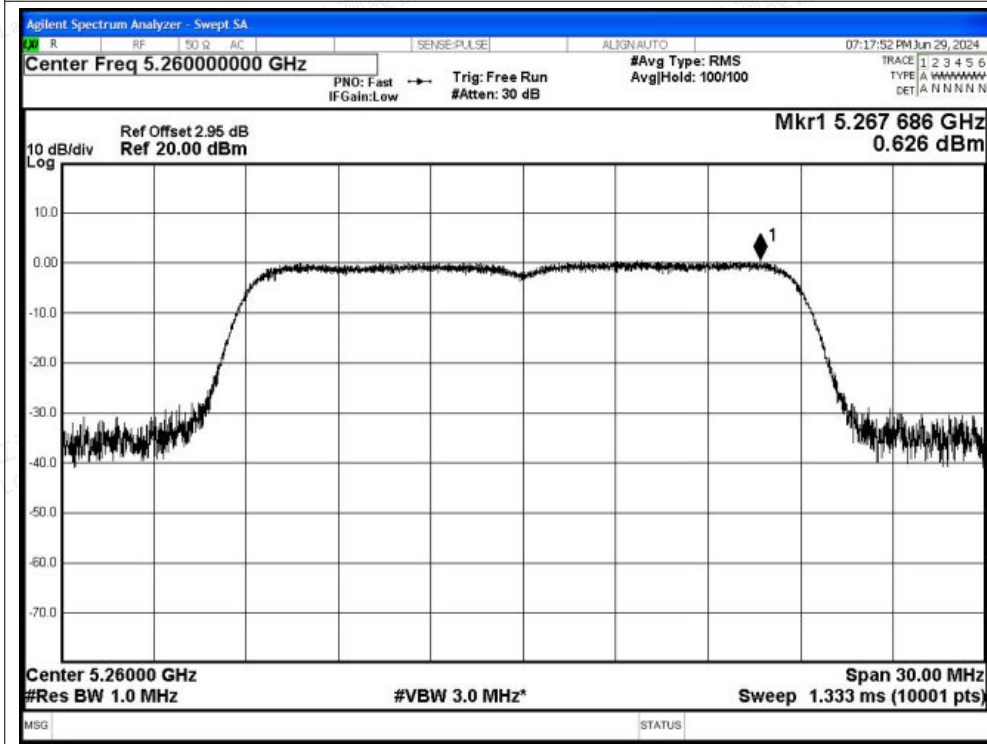




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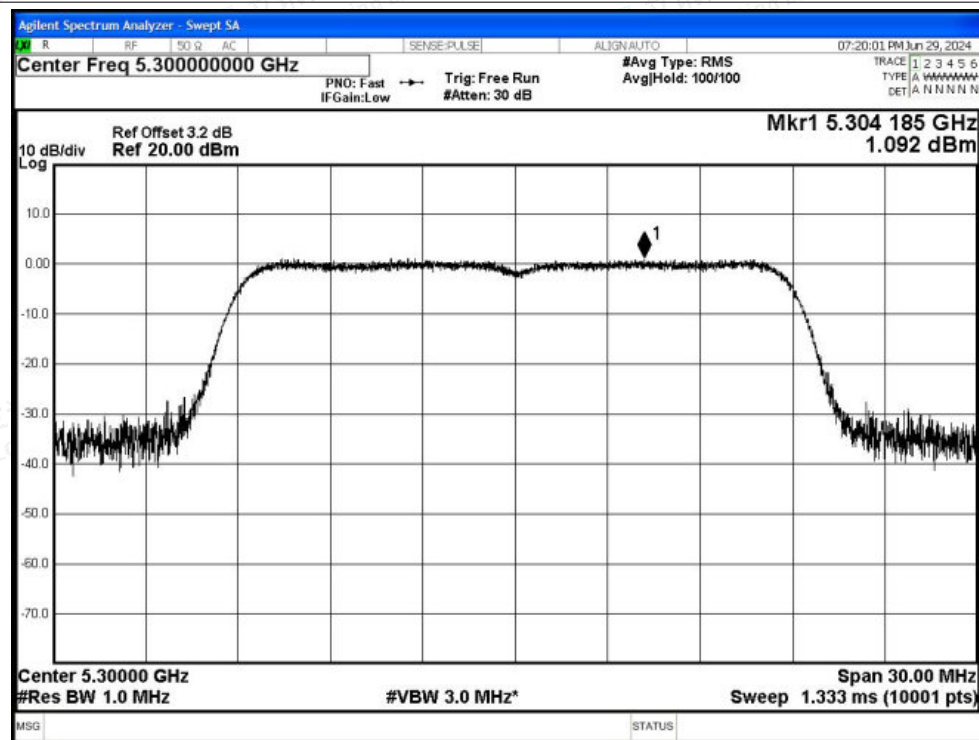


PSD NVNT ax20 5260MHz Ant1

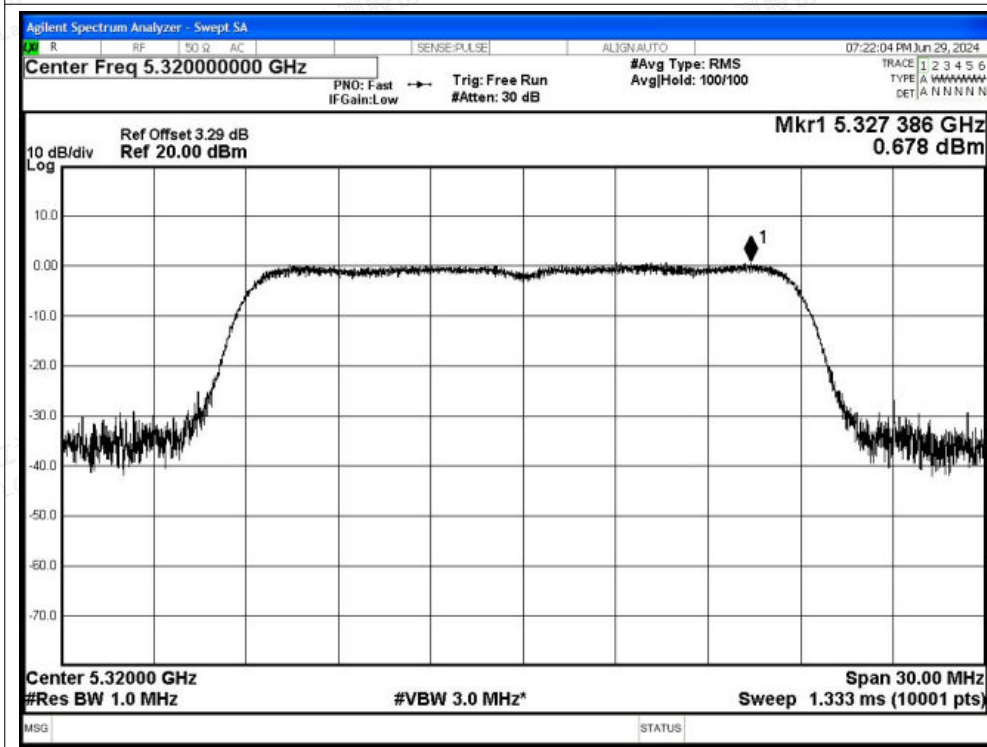




PSD NVNT ax20 5300MHz Ant1

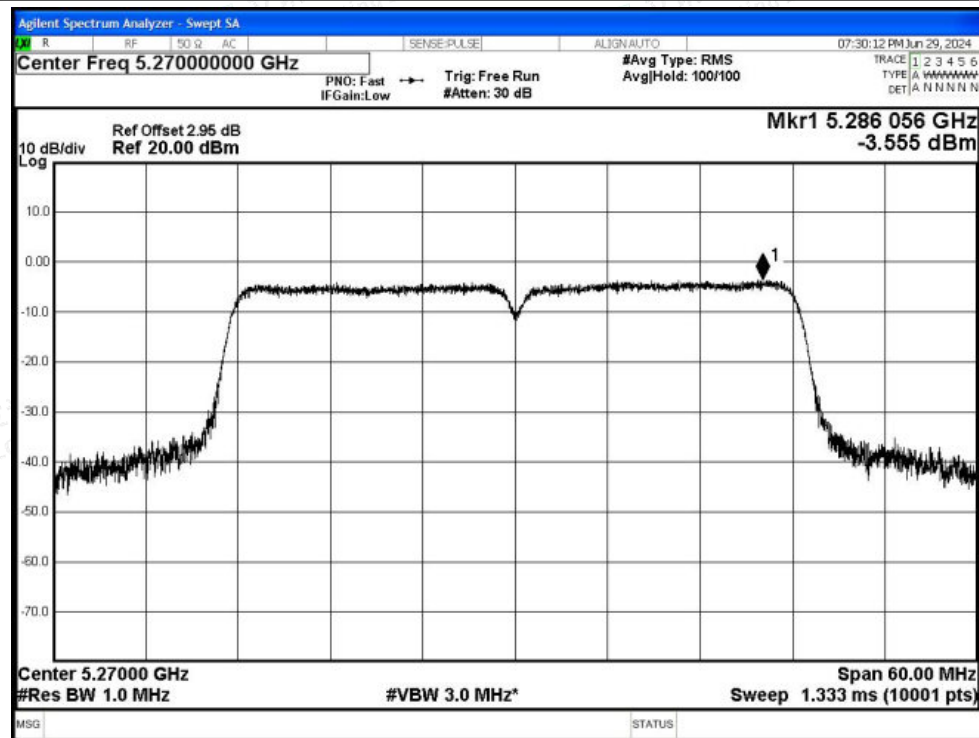


PSD NVNT ax20 5320MHz Ant1

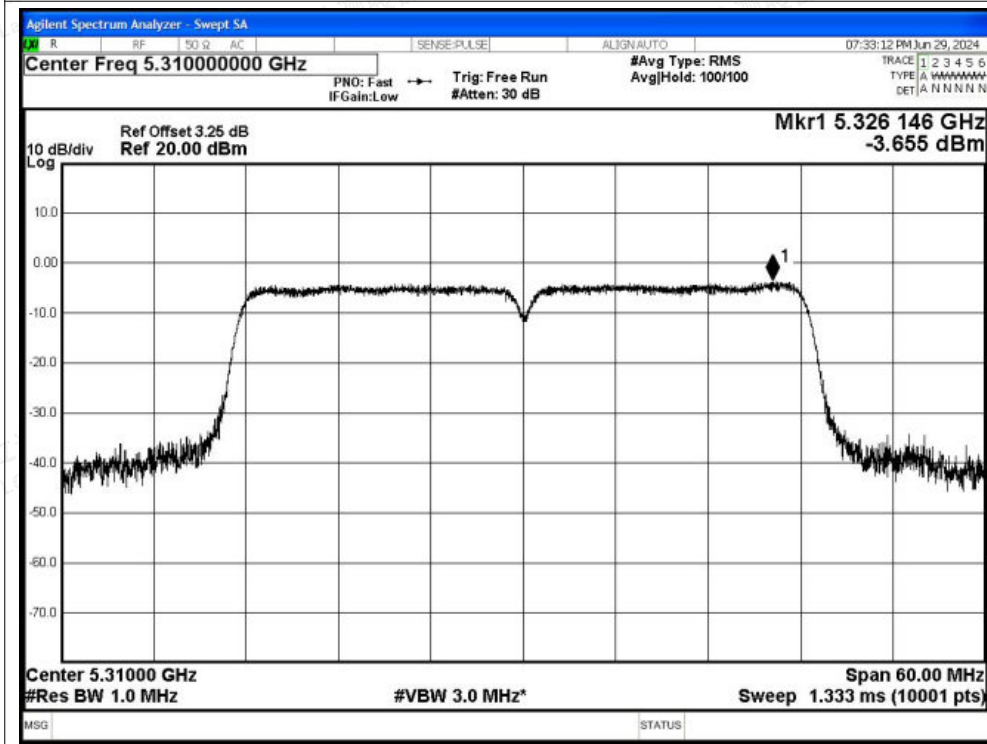




PSD NVNT ax40 5270MHz Ant1



PSD NVNT ax40 5310MHz Ant1





E.5 Frequency Stability

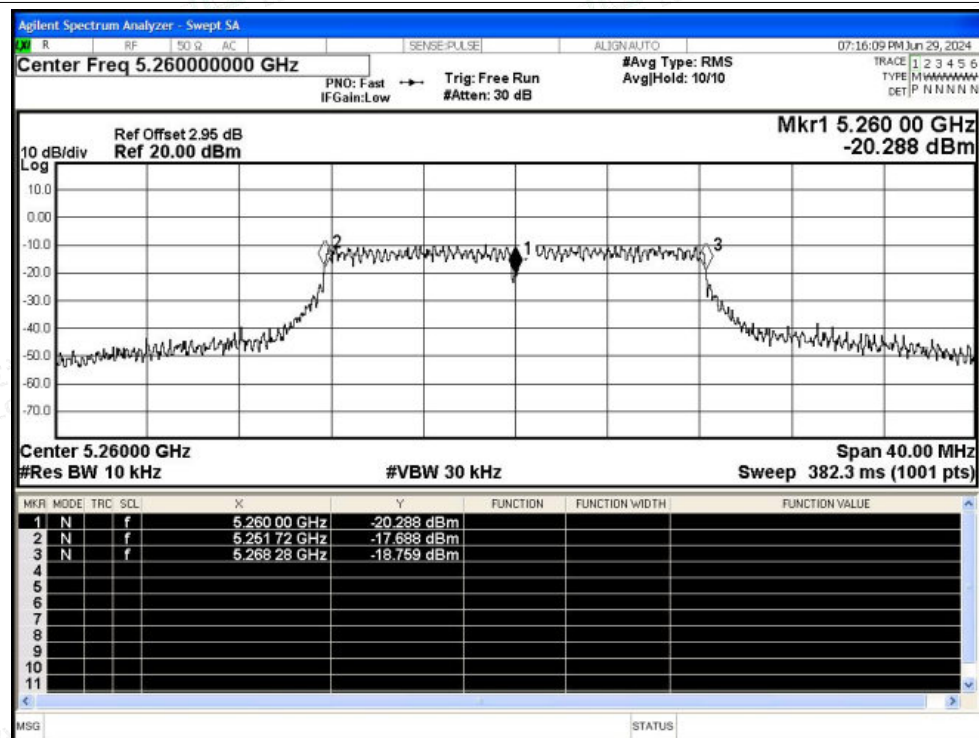
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant1	5260	0	0	25	Pass
NVNT	a	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	n20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	n40	5270	Ant1	5270	0	0	25	Pass
NVNT	n40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac20	5260	Ant1	5260	0	0	25	Pass
NVNT	ac20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass
NVNT	ax20	5260	Ant1	5260	0	0	25	Pass
NVNT	ax20	5300	Ant1	5300	0	0	25	Pass
NVNT	ax20	5320	Ant1	5320	0	0	25	Pass
NVNT	ax40	5270	Ant1	5270	0	0	25	Pass
NVNT	ax40	5310	Ant1	5310	0	0	25	Pass



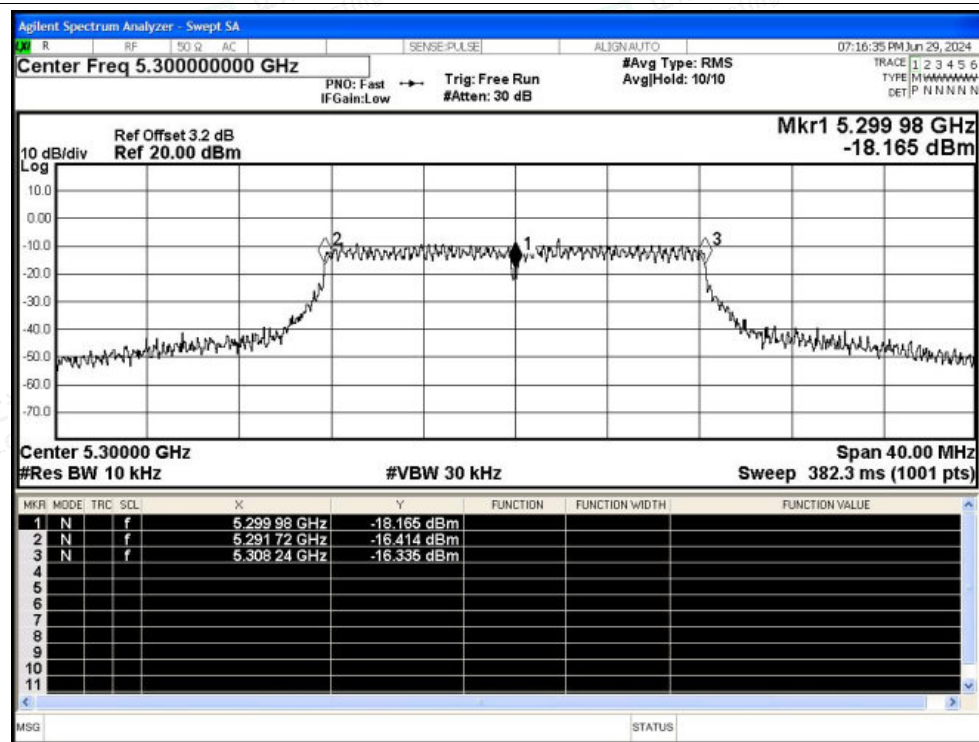


Test Graphs

Freq. Stability NVNT a 5260MHz Ant1



Freq. Stability NVNT a 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

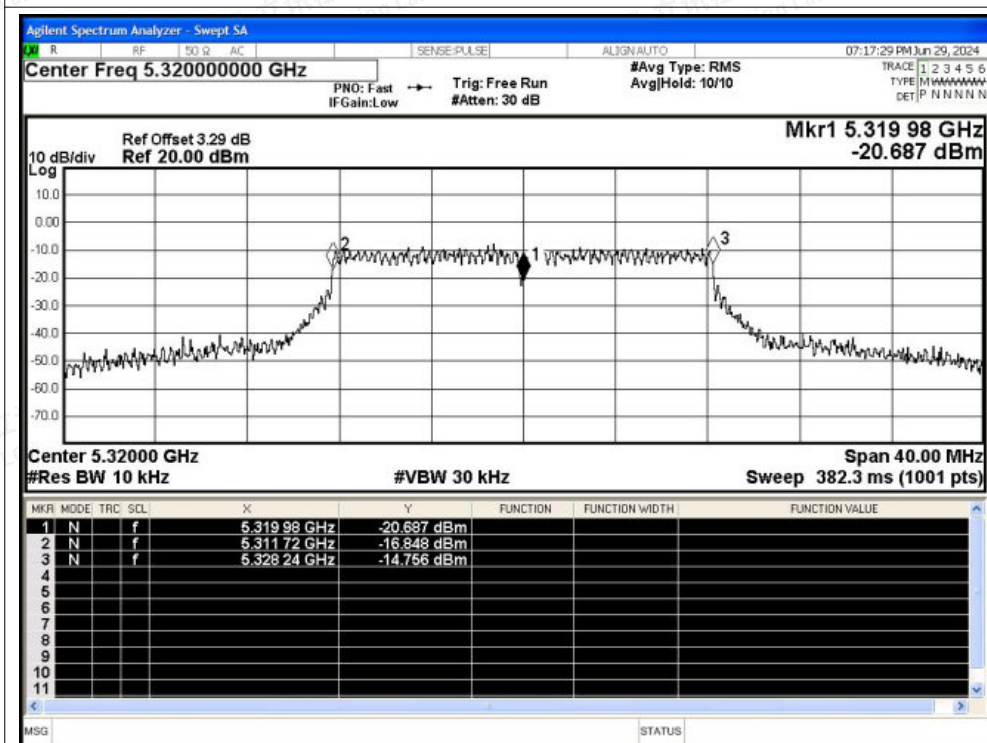
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

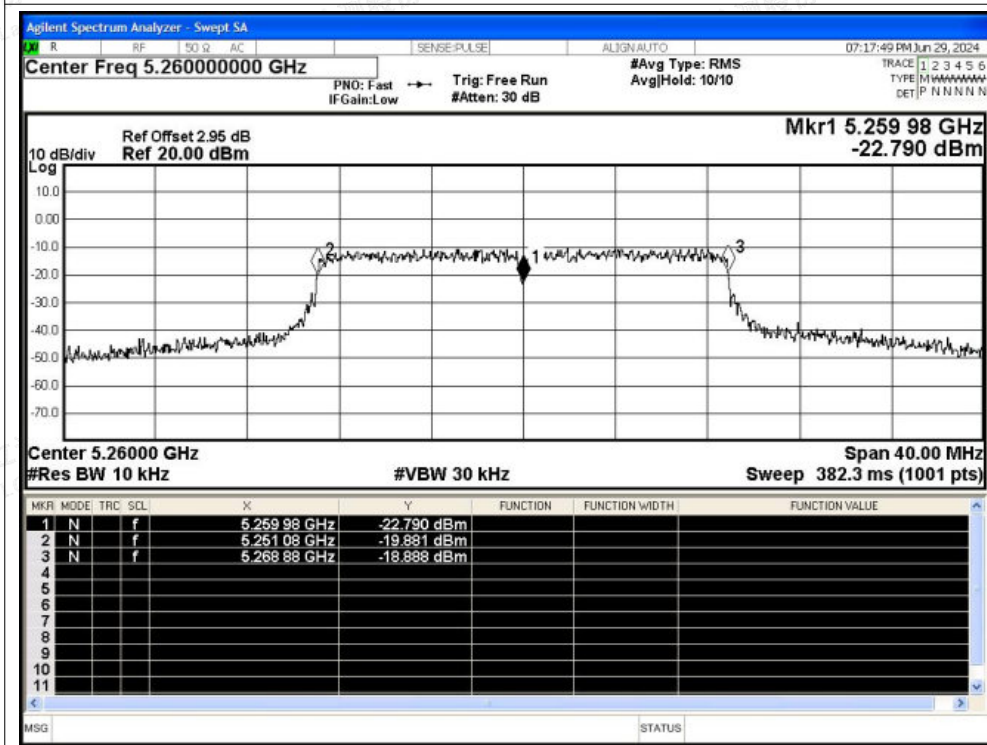
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Freq. Stability NVNT a 5320MHz Ant1

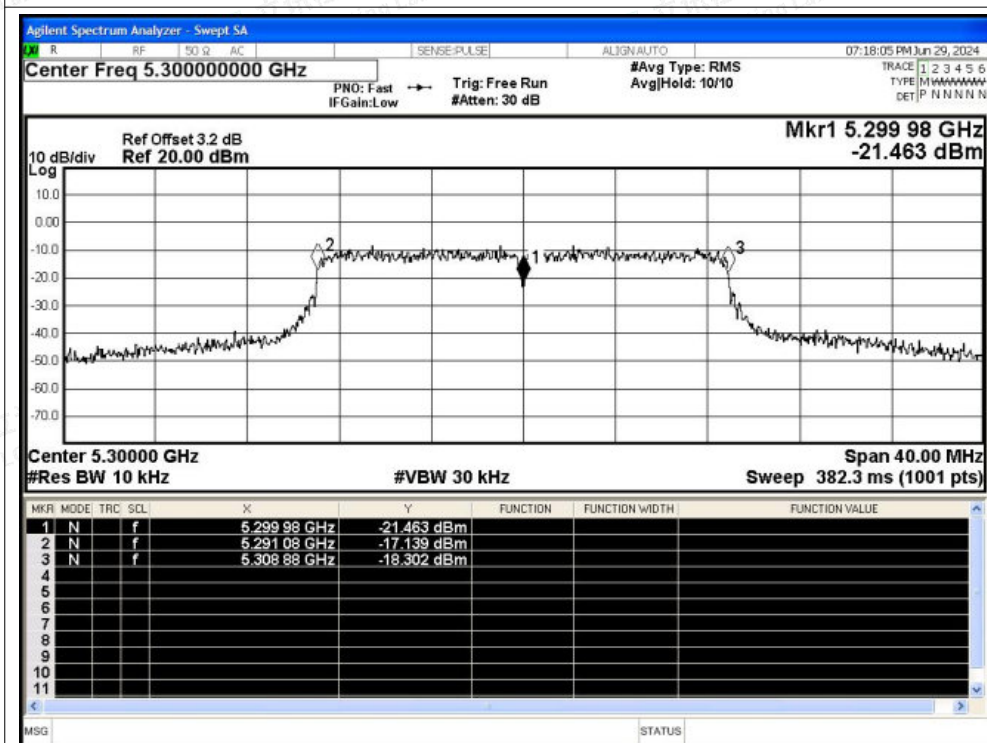


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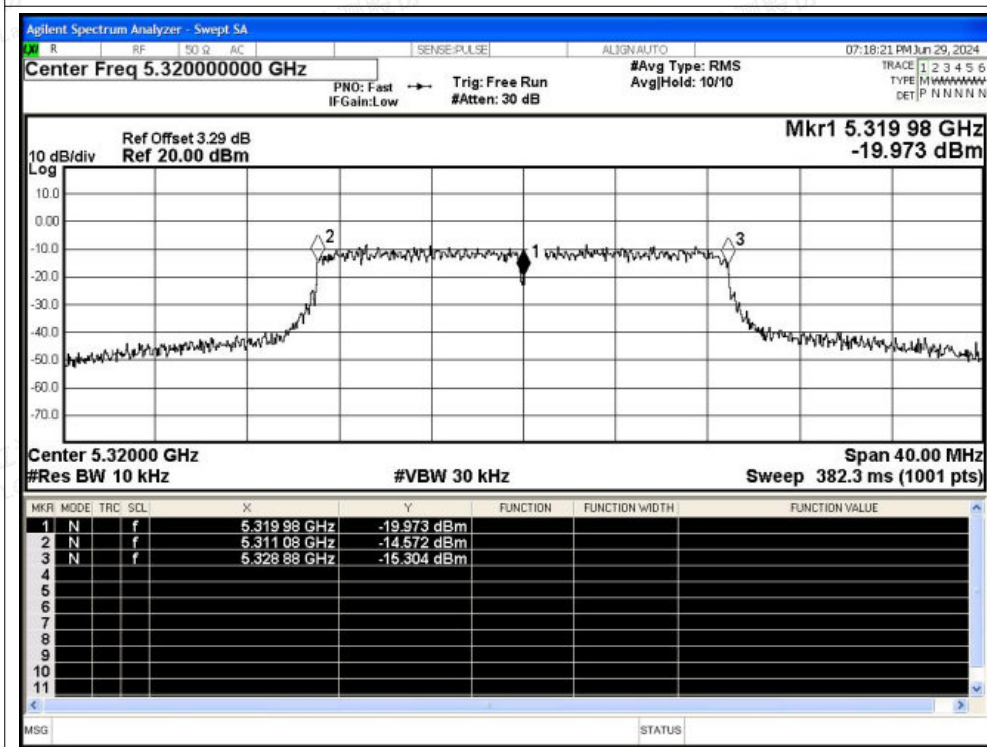




Freq. Stability NVNT n20 5300MHz Ant1



Freq. Stability NVNT n20 5320MHz Ant1



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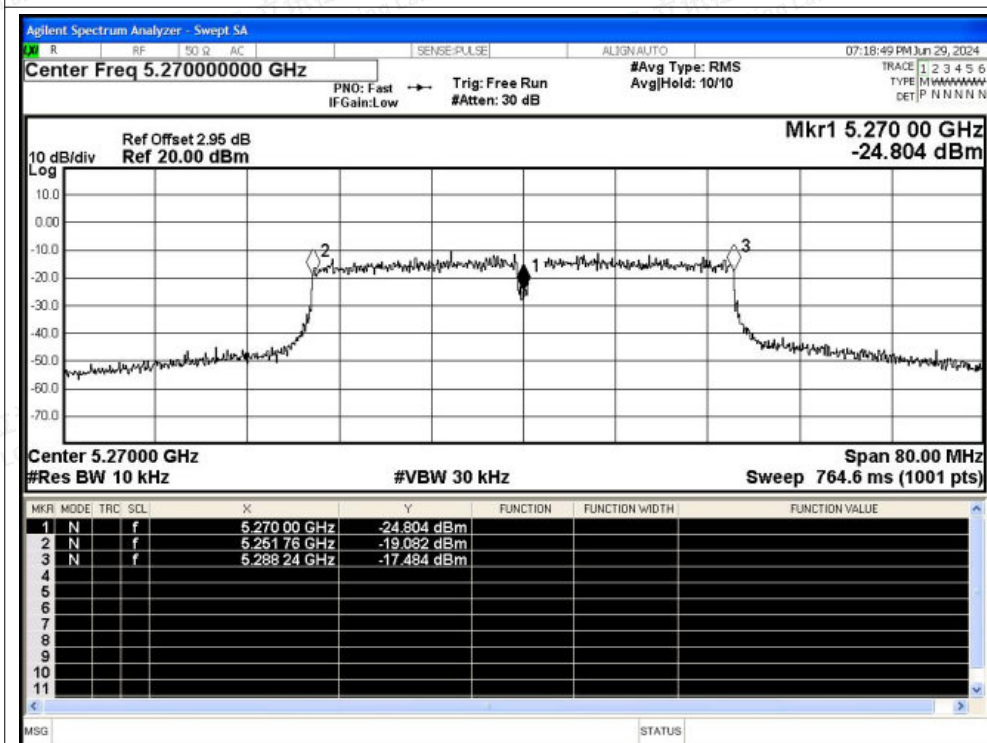
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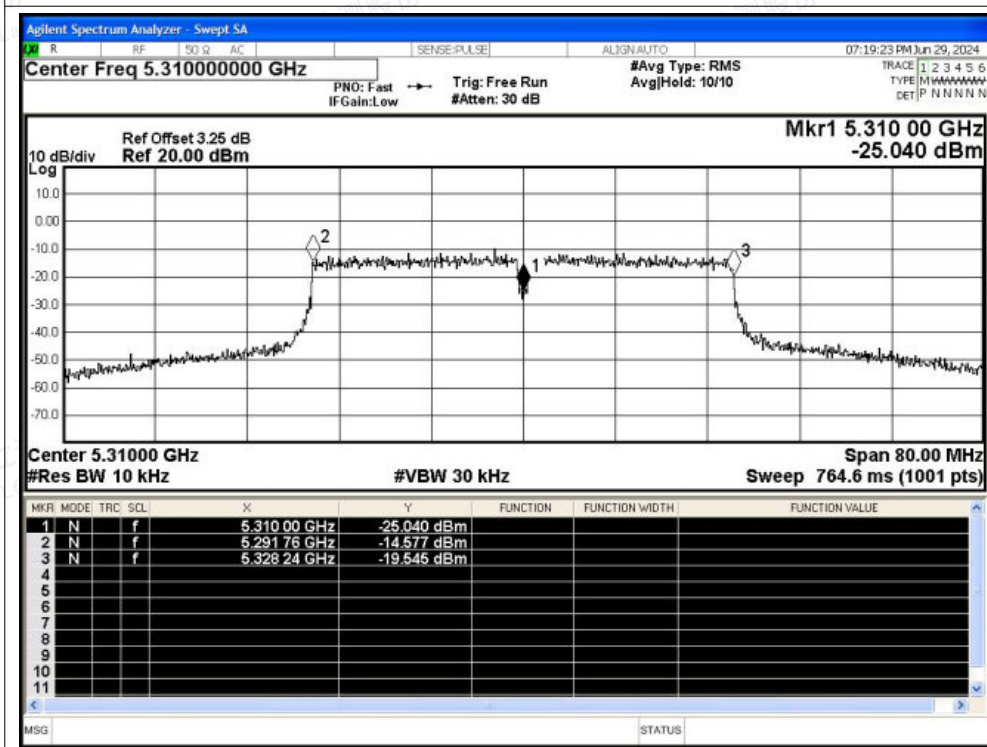
Scan code to check authenticity



Freq. Stability NVNT n40 5270MHz Ant1

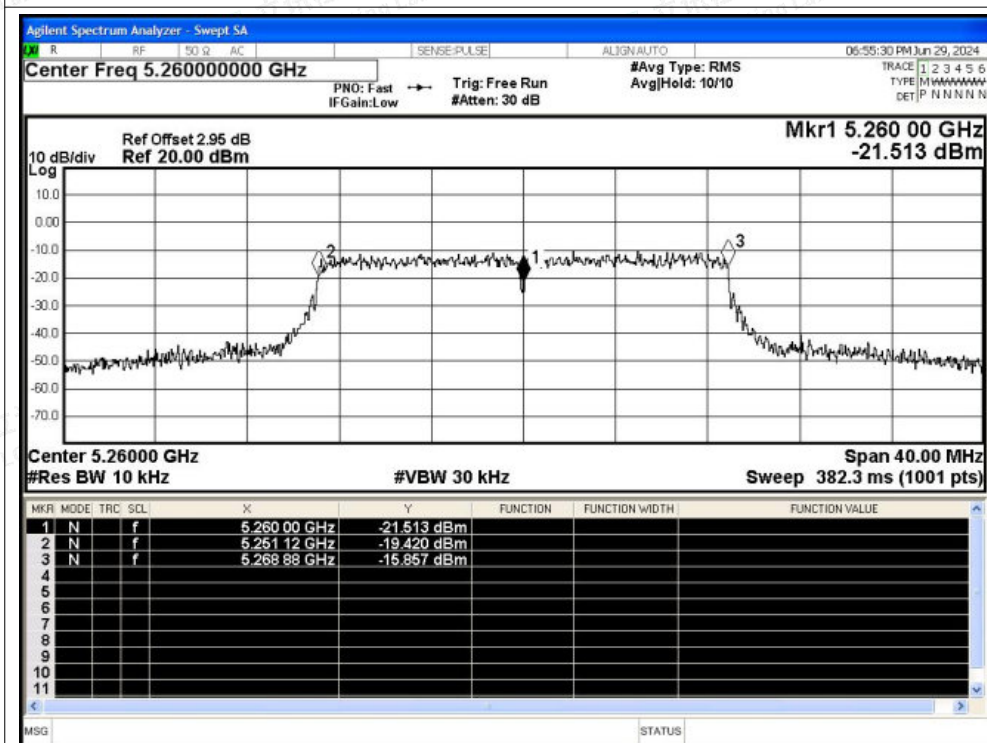


Freq. Stability NVNT n40 5310MHz Ant1

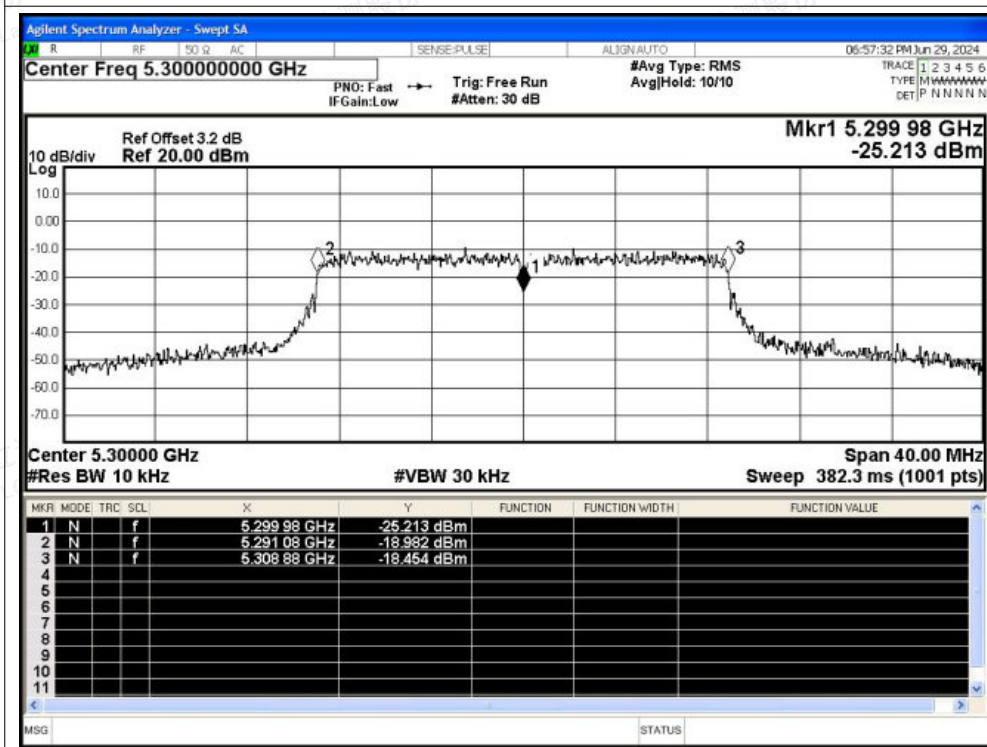




Freq. Stability NVNT ac20 5260MHz Ant1



Freq. Stability NVNT ac20 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

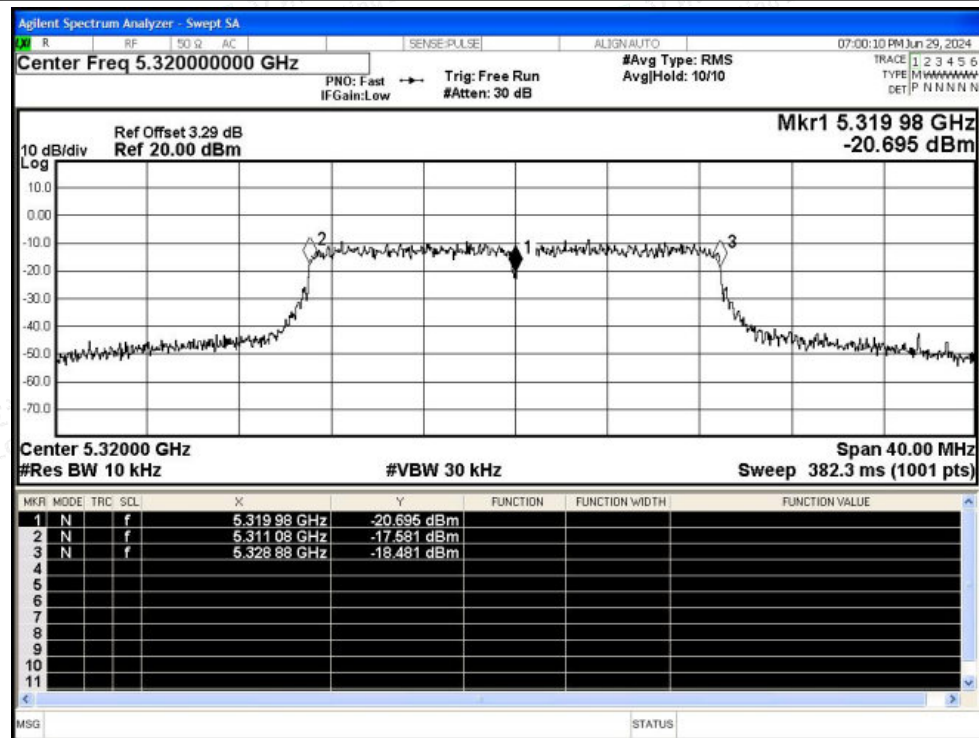
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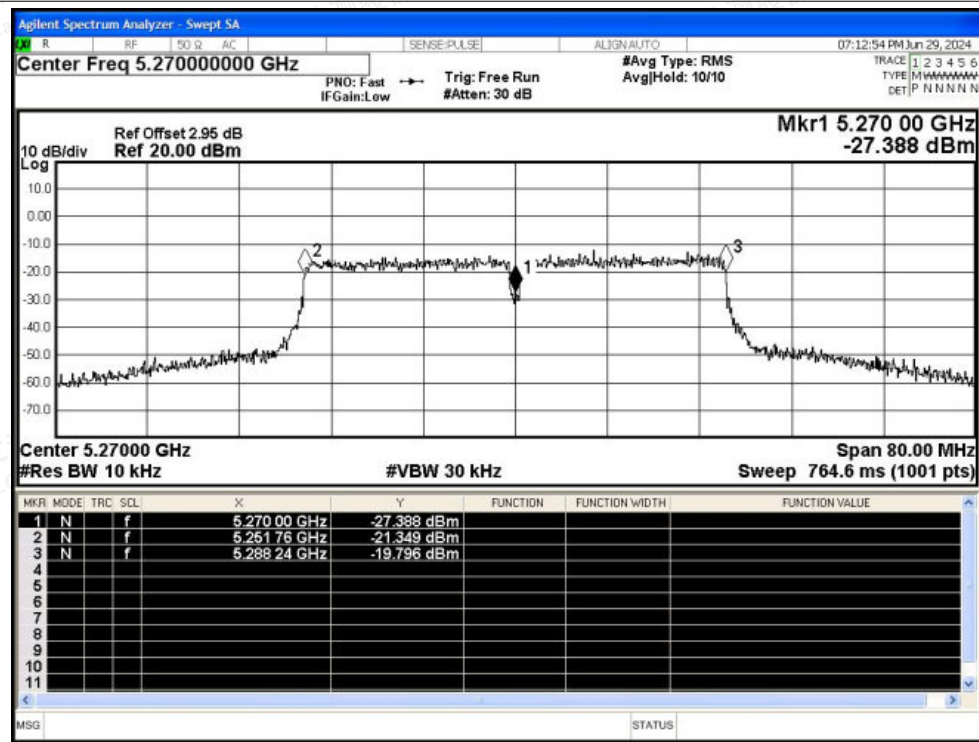
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Freq. Stability NVNT ac20 5320MHz Ant1

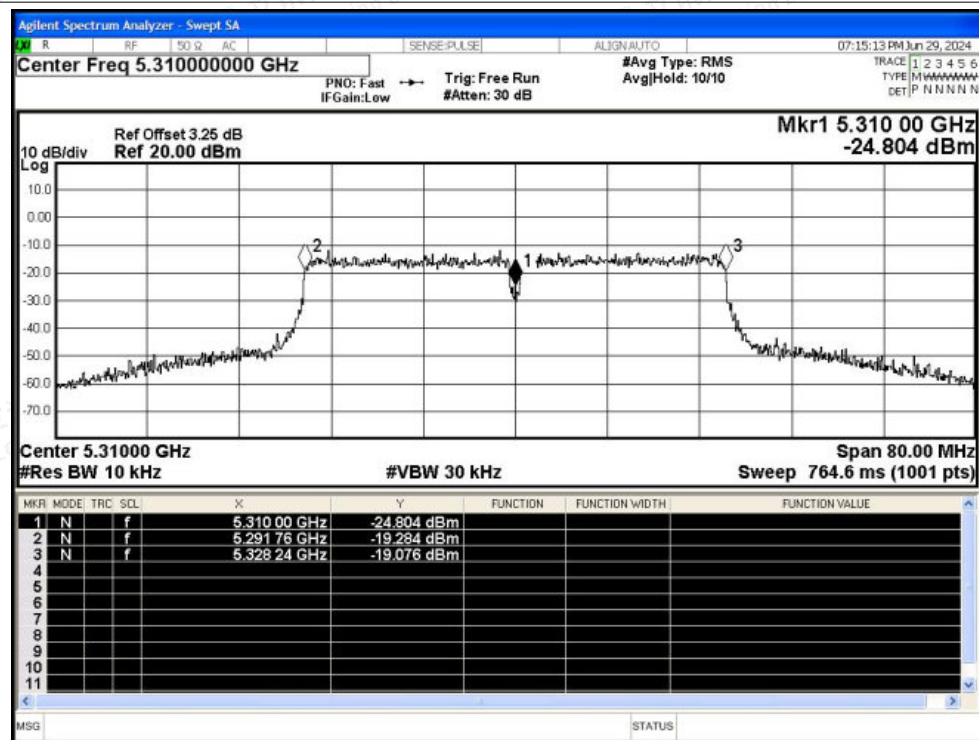


Freq. Stability NVNT ac40 5270MHz Ant1

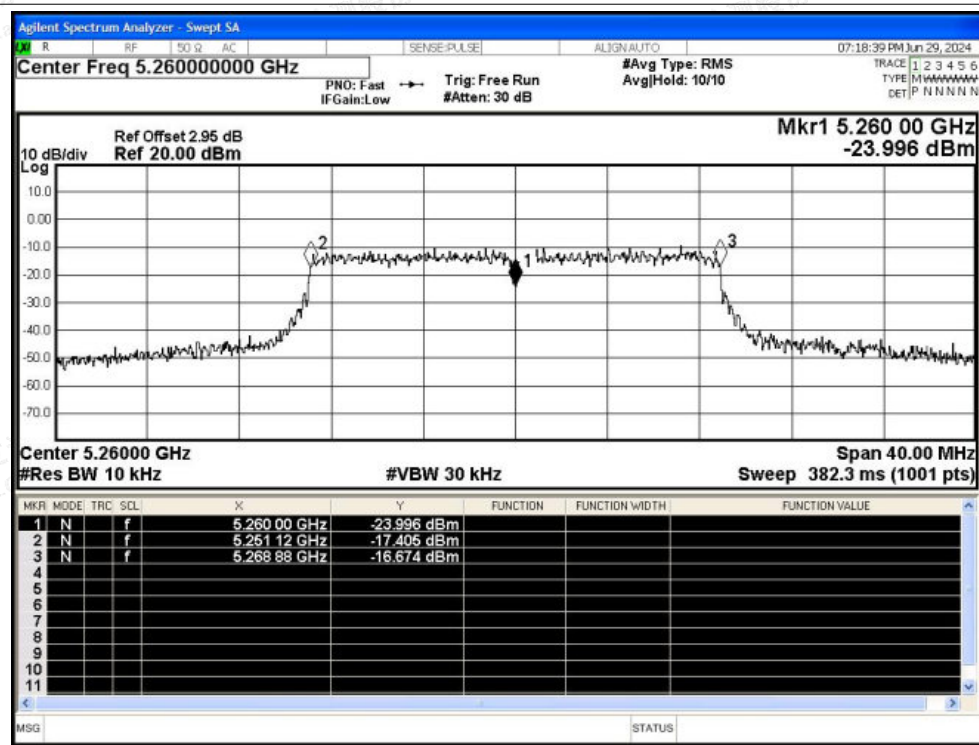




Freq. Stability NVNT ac40 5310MHz Ant1

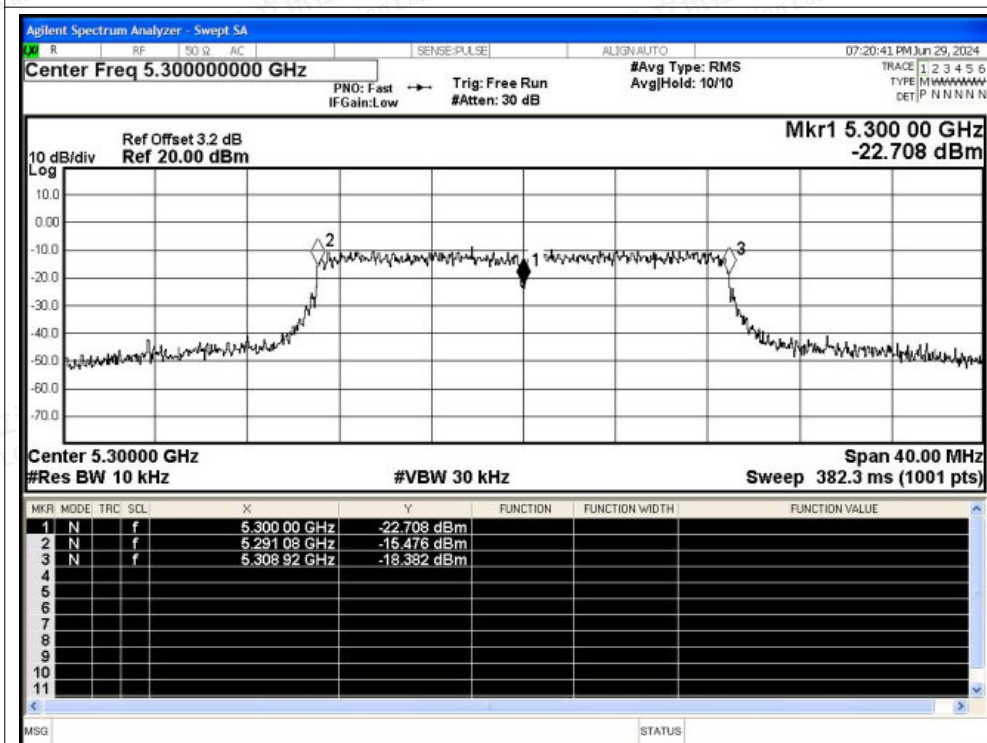


Freq. Stability NVNT ax20 5260MHz Ant1

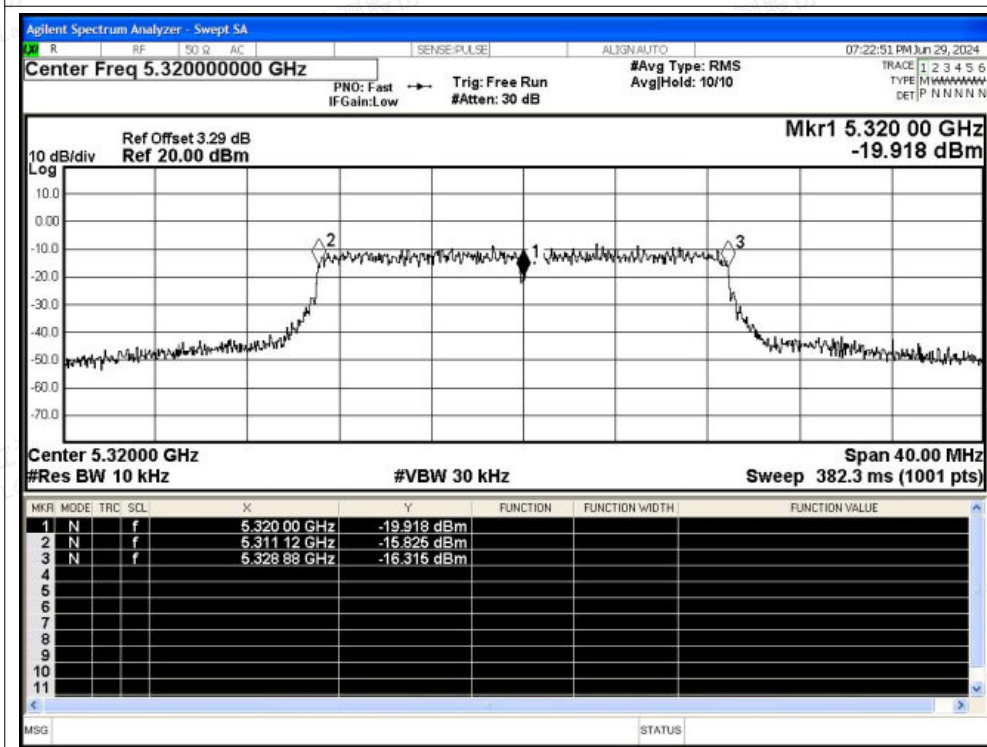




Freq. Stability NVNT ax20 5300MHz Ant1

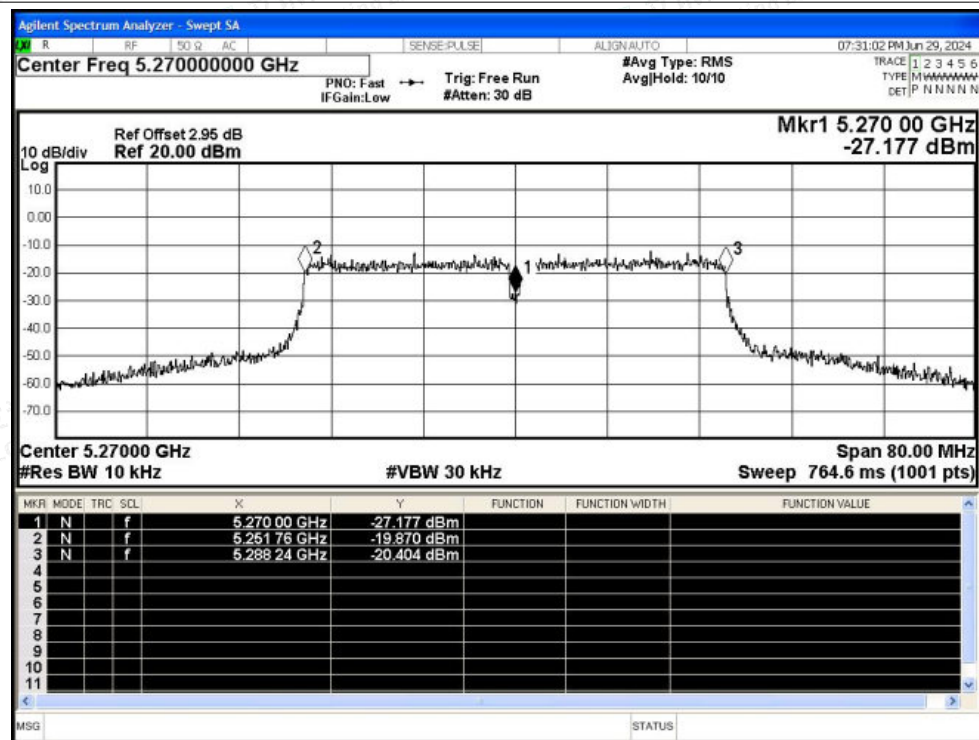


Freq. Stability NVNT ax20 5320MHz Ant1

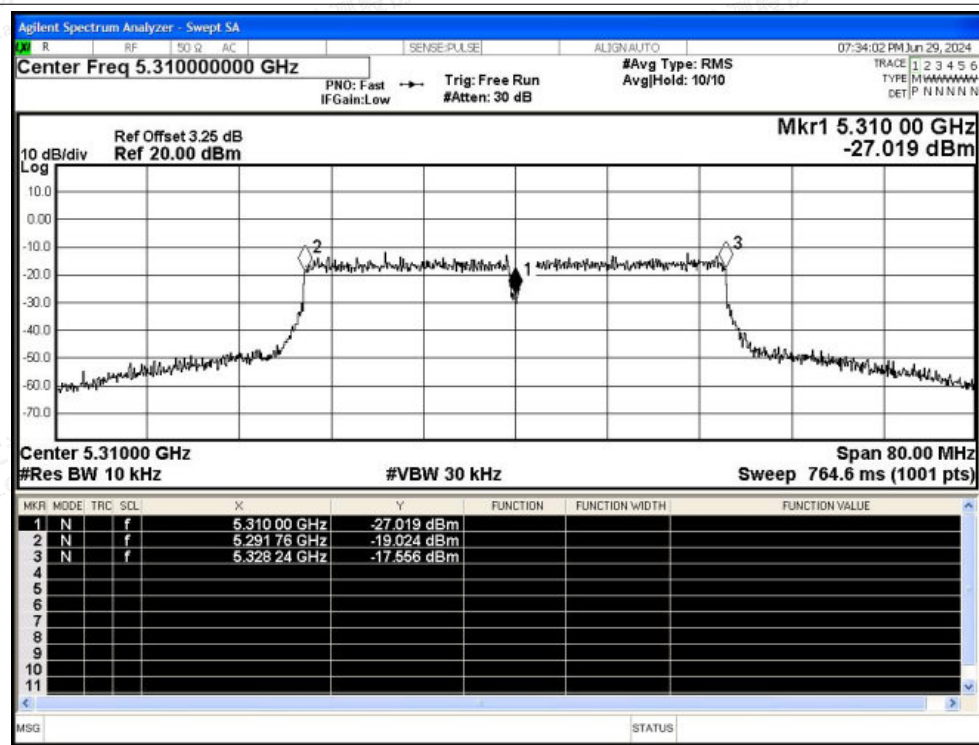




Freq. Stability NVNT ax40 5270MHz Ant1



Freq. Stability NVNT ax40 5310MHz Ant1





E.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	5260	Ant1	4500	-52.09	2	-	45.14	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-58.93	2	0.24	38.54	Average	54	Pass
NVNT	a	5260	Ant1	5134.92	-46.96	2	-	50.27	Peak	68.2	Pass
NVNT	a	5260	Ant1	5076.42	-56.49	2	0.24	40.98	Average	54	Pass
NVNT	a	5260	Ant1	5150	-48.38	2	-	48.85	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-57.63	2	0.24	39.84	Average	54	Pass
NVNT	a	5320	Ant1	5350	-45.79	2	-	51.44	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-57.02	2	0.24	40.45	Average	54	Pass
NVNT	a	5320	Ant1	5352.4	-42.99	2	-	54.24	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350.2	-56.5	2	0.24	40.97	Average	54	Pass
NVNT	a	5320	Ant1	5460	-49.1	2	-	48.13	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-58.24	2	0.24	39.23	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-49.91	2	-	47.32	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-59.01	2	0.23	38.45	Average	54	Pass
NVNT	n20	5260	Ant1	5014.8	-46.3	2	-	50.93	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5124	-56.62	2	0.23	40.84	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-49.4	2	-	47.83	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-58	2	0.23	39.46	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-41.71	2	-	55.52	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-54.53	2	0.19	42.89	Average	54	Pass
NVNT	n20	5320	Ant1	5350.4	-40.03	2	-	57.2	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-49.39	2	-	47.84	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-58.22	2	0.19	39.2	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-50.45	2	-	46.78	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-59.32	2	0.45	38.36	Average	54	Pass
NVNT	n40	5270	Ant1	4780.26	-46.48	2	-	50.75	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4807.8	-56.49	2	0.45	41.19	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-50.26	2	-	46.97	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-57.56	2	0.45	40.12	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-45.21	2	-	52.02	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-55.37	2	0.44	42.3	Average	54	Pass
NVNT	n40	5310	Ant1	5350.4	-41.27	2	-	55.96	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-51.57	2	-	45.66	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-57.73	2	0.44	39.94	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-50.28	2	-	46.95	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-59.42	2	0.23	38.04	Average	54	Pass





NVNT	ac20	5260	Ant1	5062.38	-46.7	2	-	50.53	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5148.18	-56.87	2	0.23	40.59	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-49.58	2	-	47.65	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-57.43	2	0.23	40.03	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-43.54	2	-	53.69	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-55.56	2	0.23	41.9	Average	54	Pass
NVNT	ac20	5320	Ant1	5350.2	-40.15	2	-	57.08	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-50.25	2	-	46.98	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-58.02	2	0.23	39.44	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-50.38	2	-	46.85	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-59.02	2	0.44	38.65	Average	54	Pass
NVNT	ac40	5270	Ant1	5135.85	-46.54	2	-	50.69	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4806.99	-56.73	2	0.44	40.94	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-50.15	2	-	47.08	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-57.45	2	0.44	40.22	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-41.48	2	-	55.75	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-54.91	2	0.45	42.77	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-49.69	2	-	47.54	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-57.8	2	0.45	39.88	Average	54	Pass
NVNT	ax20	5260	Ant1	4500	-48.98	2	-	48.25	Peak	68.2	Pass
NVNT	ax20	5260	Ant1	4500	-58.84	2	0.23	38.62	Average	54	Pass
NVNT	ax20	5260	Ant1	5127.9	-45.92	2	-	51.31	Peak	68.2	Pass
NVNT	ax20	5260	Ant1	5067.84	-56.85	2	0.23	40.61	Average	54	Pass
NVNT	ax20	5260	Ant1	5150	-49.82	2	-	47.41	Peak	68.2	Pass
NVNT	ax20	5260	Ant1	5150	-57.37	2	0.23	40.09	Average	54	Pass
NVNT	ax20	5320	Ant1	5350	-42.04	2	-	55.19	Peak	68.2	Pass
NVNT	ax20	5320	Ant1	5350	-55.87	2	0.23	41.59	Average	54	Pass
NVNT	ax20	5320	Ant1	5350.6	-41.32	2	-	55.91	Peak	68.2	Pass
NVNT	ax20	5320	Ant1	5350.6	-55.85	2	0.23	41.61	Average	54	Pass
NVNT	ax20	5320	Ant1	5460	-50.21	2	-	47.02	Peak	68.2	Pass
NVNT	ax20	5320	Ant1	5460	-57.88	2	0.23	39.58	Average	54	Pass
NVNT	ax40	5270	Ant1	4500	-50.23	2	-	47	Peak	68.2	Pass
NVNT	ax40	5270	Ant1	4500	-58.77	2	0.45	38.91	Average	54	Pass
NVNT	ax40	5270	Ant1	4751.1	-47.16	2	-	50.07	Peak	68.2	Pass
NVNT	ax40	5270	Ant1	4806.99	-56.37	2	0.45	41.31	Average	54	Pass
NVNT	ax40	5270	Ant1	5150	-49	2	-	48.23	Peak	68.2	Pass
NVNT	ax40	5270	Ant1	5150	-57.38	2	0.45	40.3	Average	54	Pass
NVNT	ax40	5310	Ant1	5350	-43.54	2	-	53.69	Peak	68.2	Pass
NVNT	ax40	5310	Ant1	5350	-56.44	2	0.45	41.24	Average	54	Pass
NVNT	ax40	5310	Ant1	5351	-42.61	2	-	54.62	Peak	68.2	Pass
NVNT	ax40	5310	Ant1	5350.2	-55.3	2	0.45	42.38	Average	54	Pass





NVNT	ax40	5310	Ant1	5460	-50.99	2	-	46.24	Peak	68.2	Pass
NVNT	ax40	5310	Ant1	5460	-57.66	2	0.45	40.02	Average	54	Pass



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