



Appendix D

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: NFC Android Reader

Test Model: FX335

Environmental Conditions

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





D.1 -26dB Bandwidth

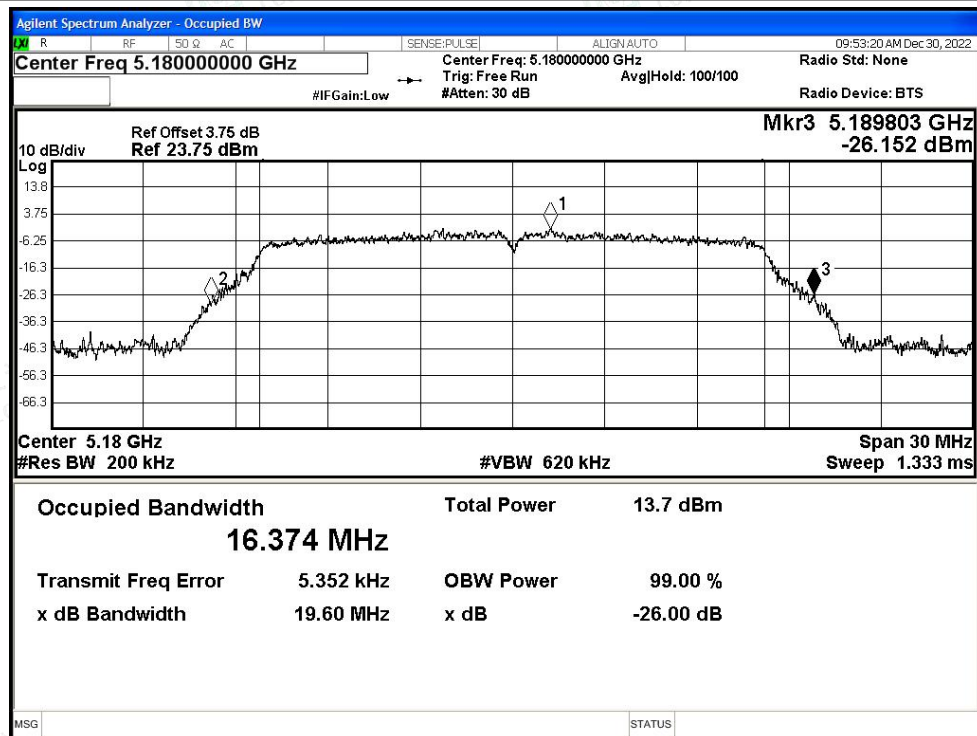
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.596	Pass
NVNT	a	5200	Ant1	19.812	Pass
NVNT	a	5240	Ant1	19.871	Pass
NVNT	n20	5180	Ant1	19.84	Pass
NVNT	n20	5200	Ant1	20.075	Pass
NVNT	n20	5240	Ant1	19.902	Pass
NVNT	n40	5190	Ant1	40.127	Pass
NVNT	n40	5230	Ant1	40.193	Pass



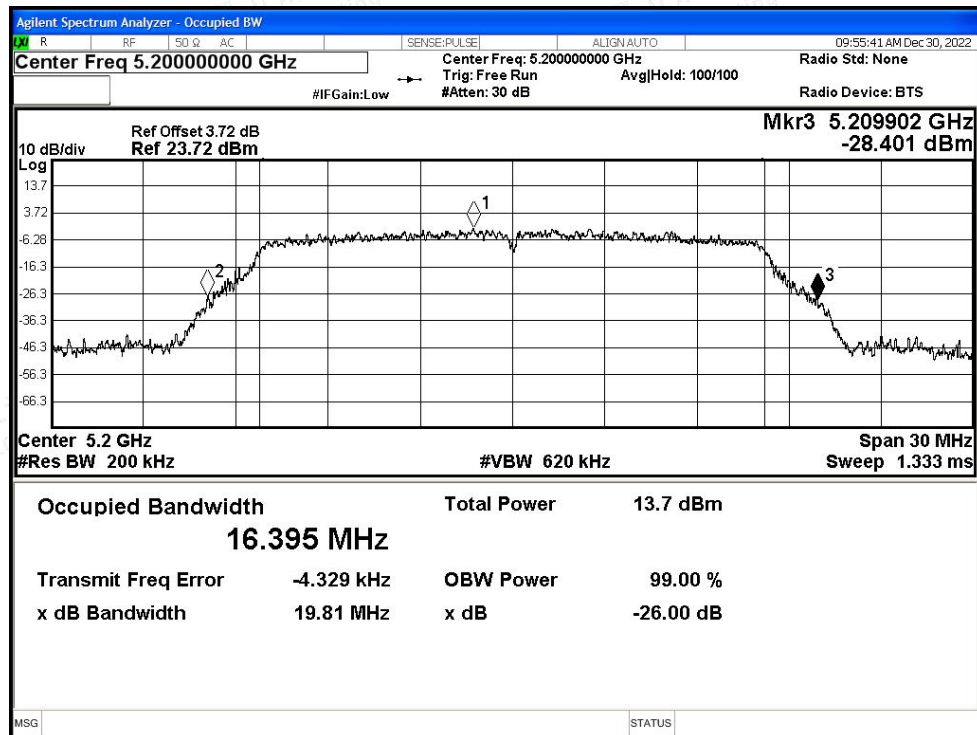


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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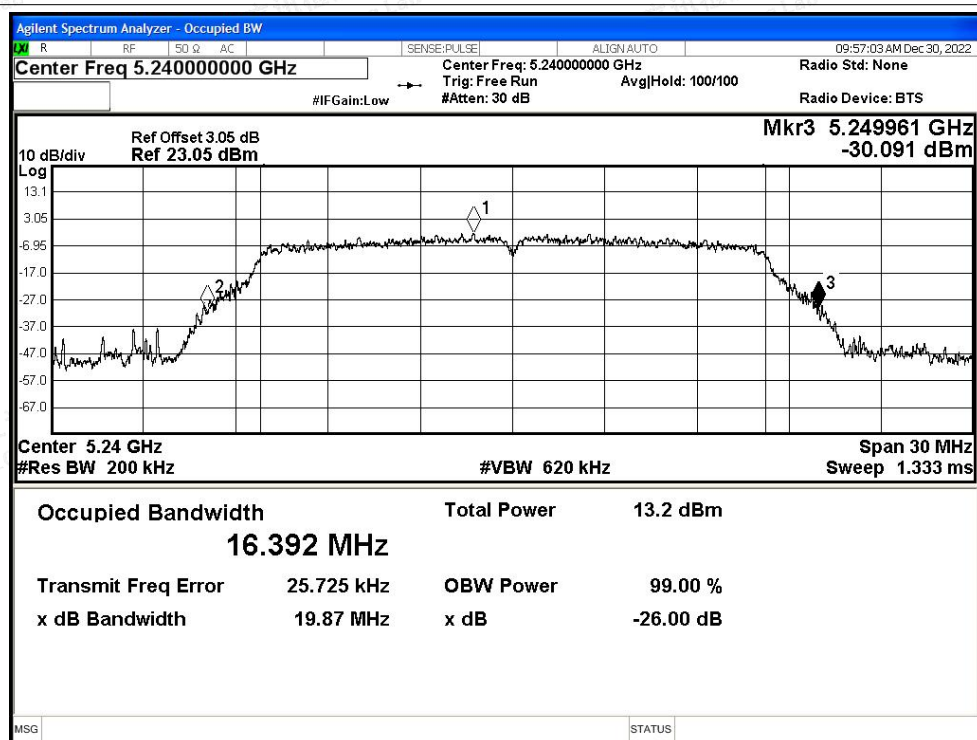
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

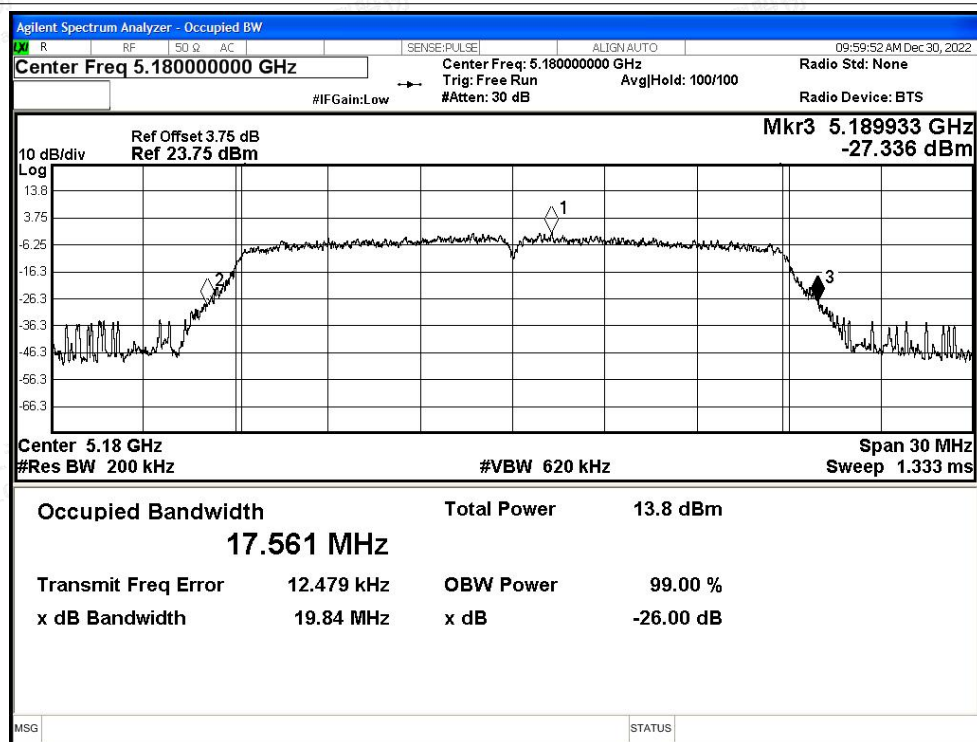
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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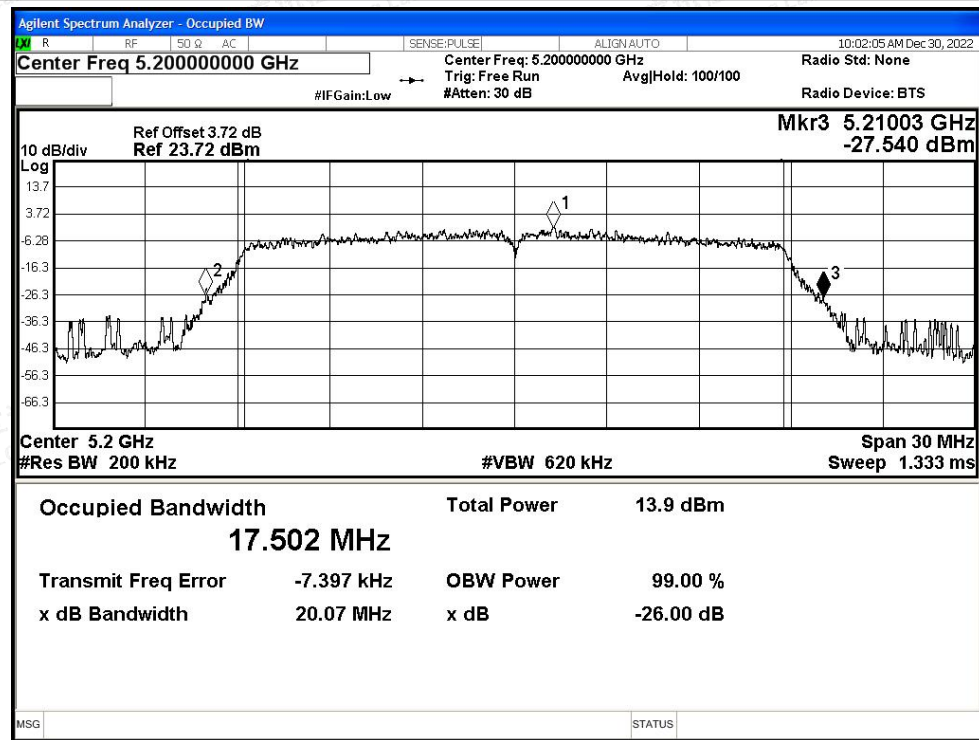
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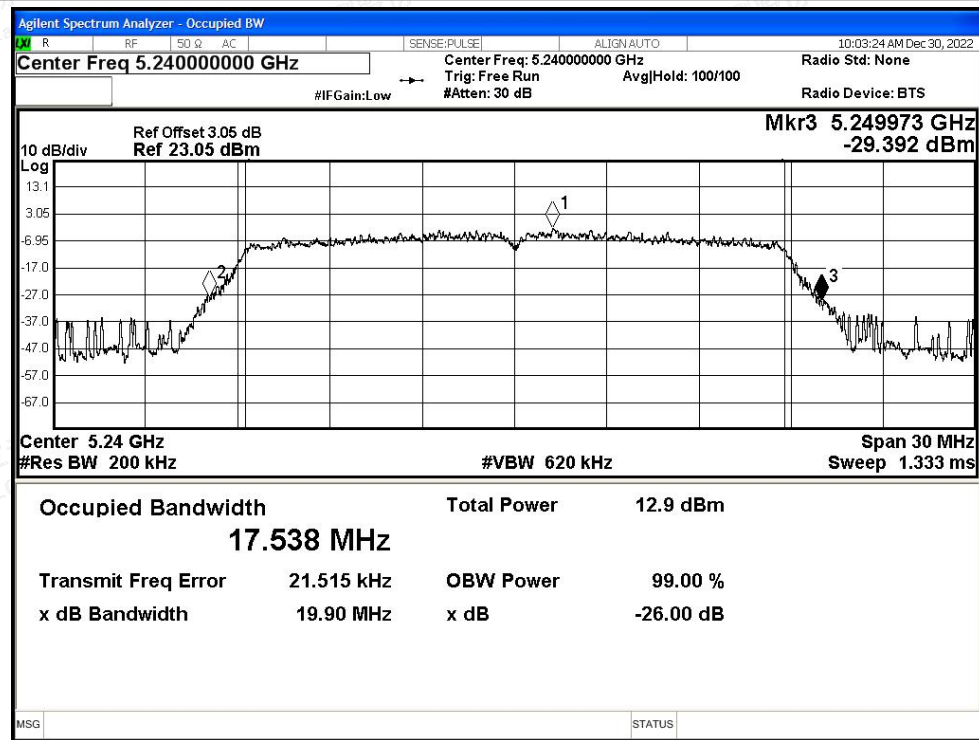
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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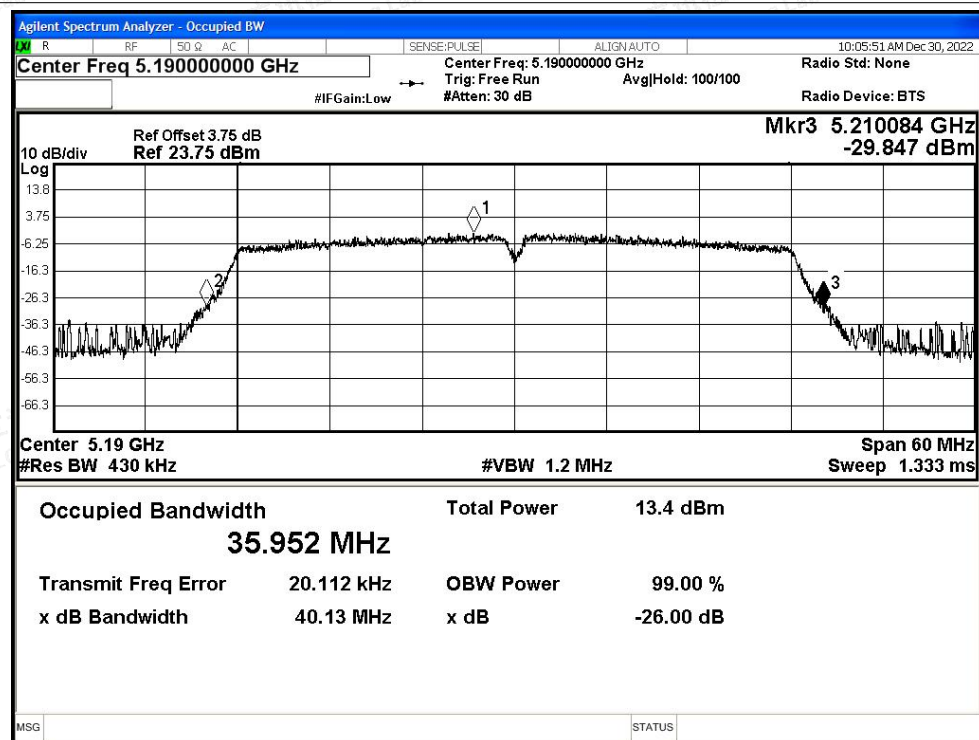
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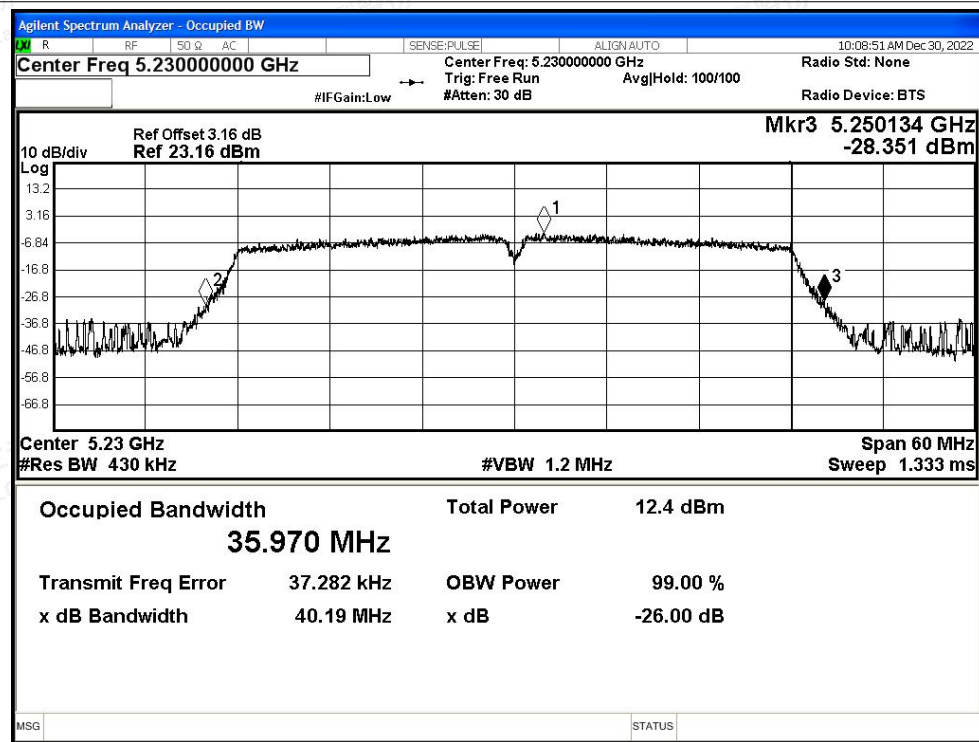
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz 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	8.11	0.14	8.25	24	Pass
NVNT	a	5200	Ant1	8.02	0.13	8.15	24	Pass
NVNT	a	5240	Ant1	7.34	0.13	7.47	24	Pass
NVNT	n20	5180	Ant1	8.12	0.14	8.26	24	Pass
NVNT	n20	5200	Ant1	8.07	0.14	8.21	24	Pass
NVNT	n20	5240	Ant1	7.22	0.14	7.36	24	Pass
NVNT	n40	5190	Ant1	7.35	0.28	7.63	24	Pass
NVNT	n40	5230	Ant1	7.5	0.29	7.79	24	Pass



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D.3 Maximum Power Spectral Density Level

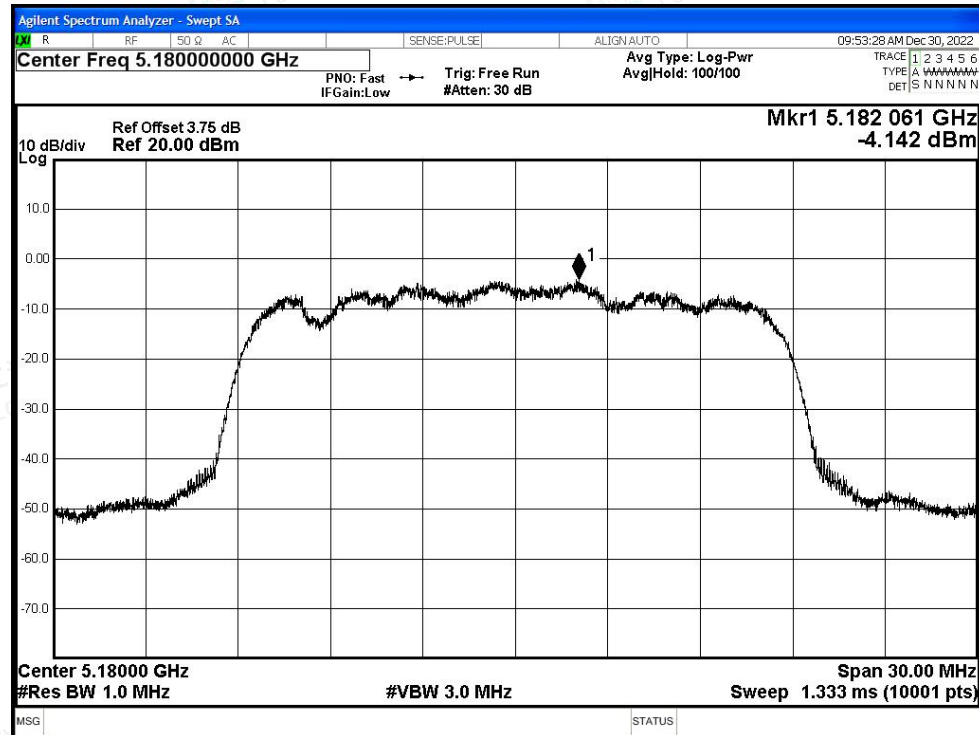
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.14	0.14	-4.00	11	Pass
NVNT	a	5200	Ant1	-3.55	0.13	-3.42	11	Pass
NVNT	a	5240	Ant1	-4.18	0.13	-4.05	11	Pass
NVNT	n20	5180	Ant1	-4.19	0.14	-4.05	11	Pass
NVNT	n20	5200	Ant1	-4.95	0.14	-4.81	11	Pass
NVNT	n20	5240	Ant1	-4.89	0.14	-4.75	11	Pass
NVNT	n40	5190	Ant1	-8.64	0.28	-8.36	11	Pass
NVNT	n40	5230	Ant1	-8.65	0.29	-8.36	11	Pass



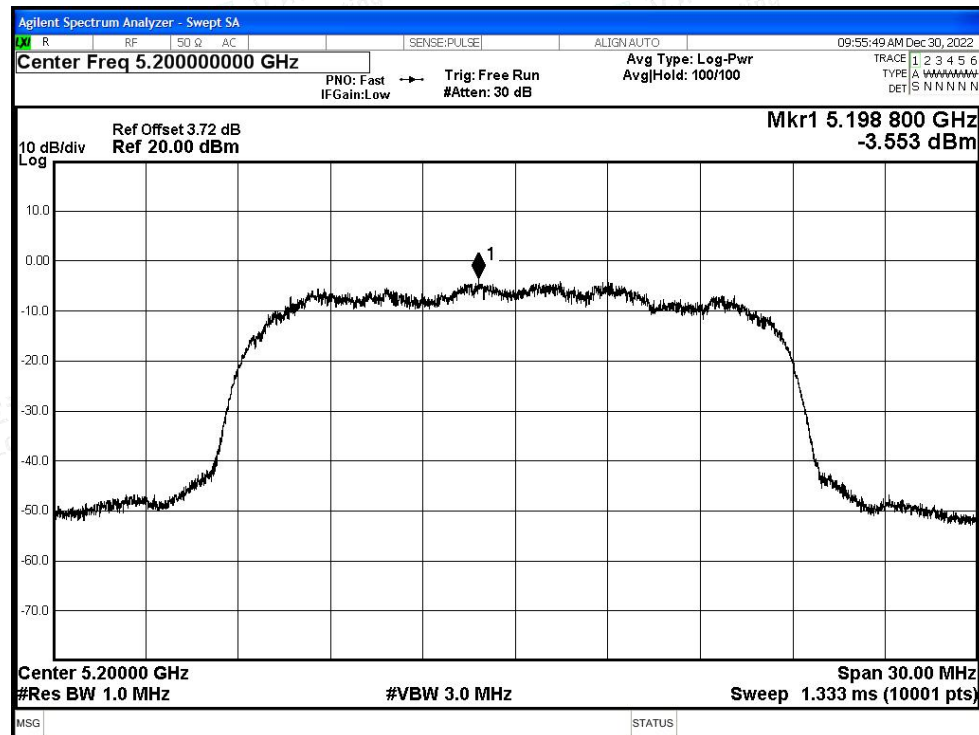


Test Graphs

PSD NVNT a 5180MHz Ant1

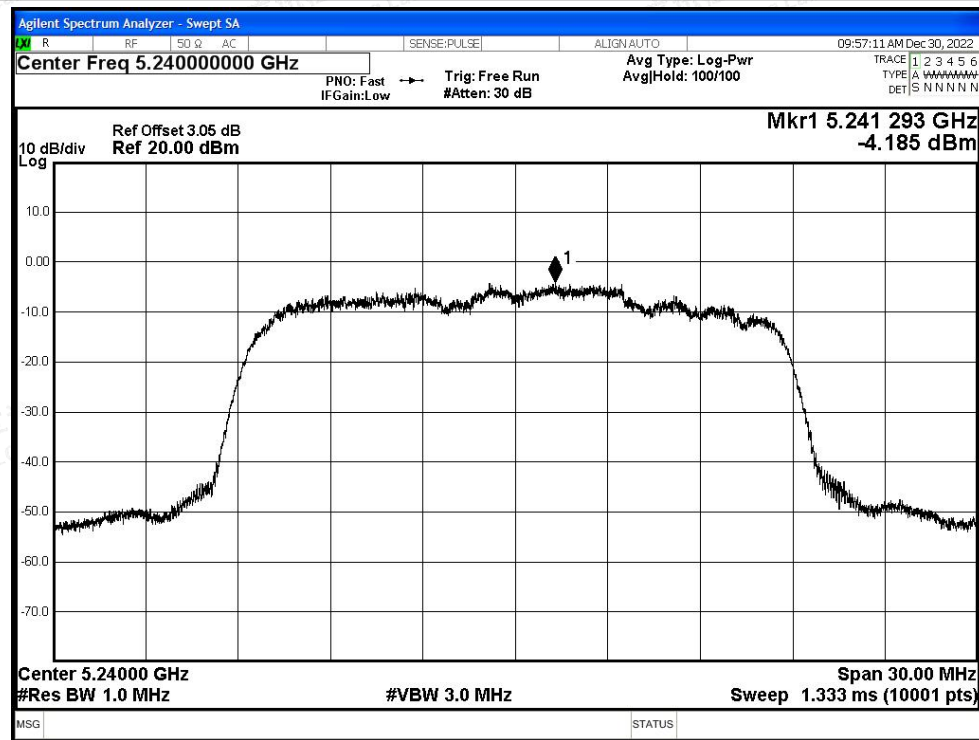


PSD NVNT a 5200MHz Ant1

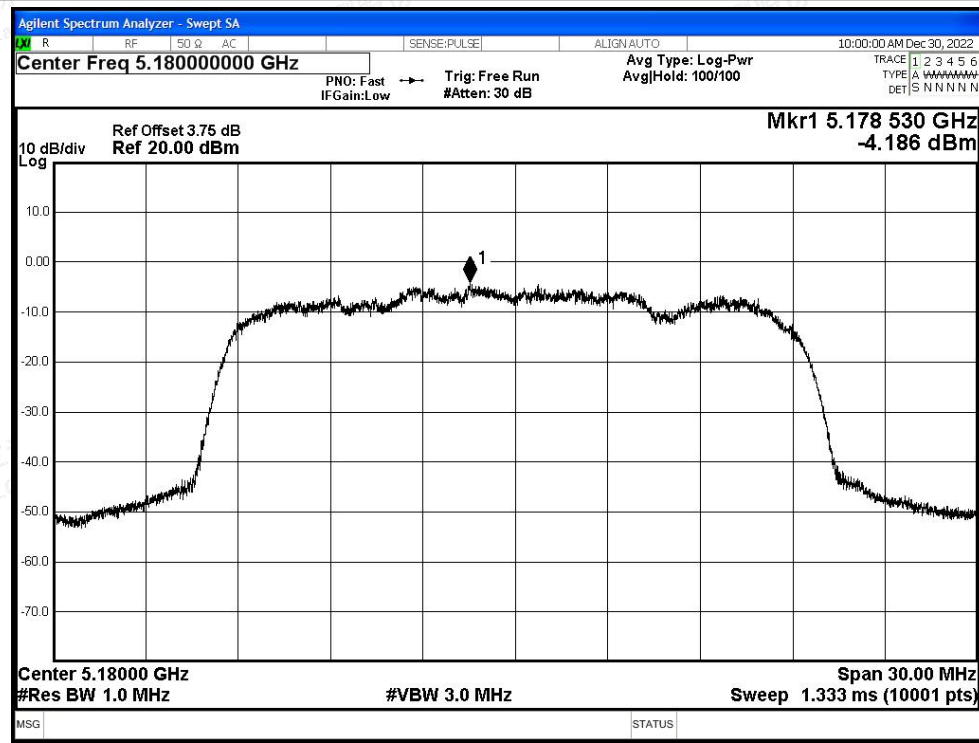




PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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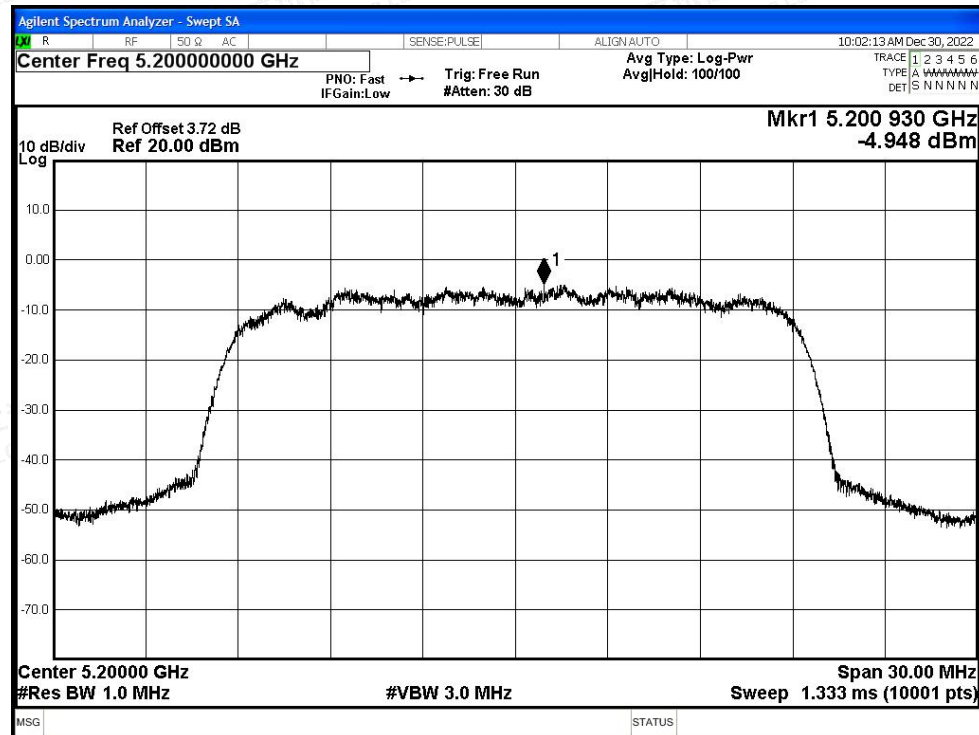
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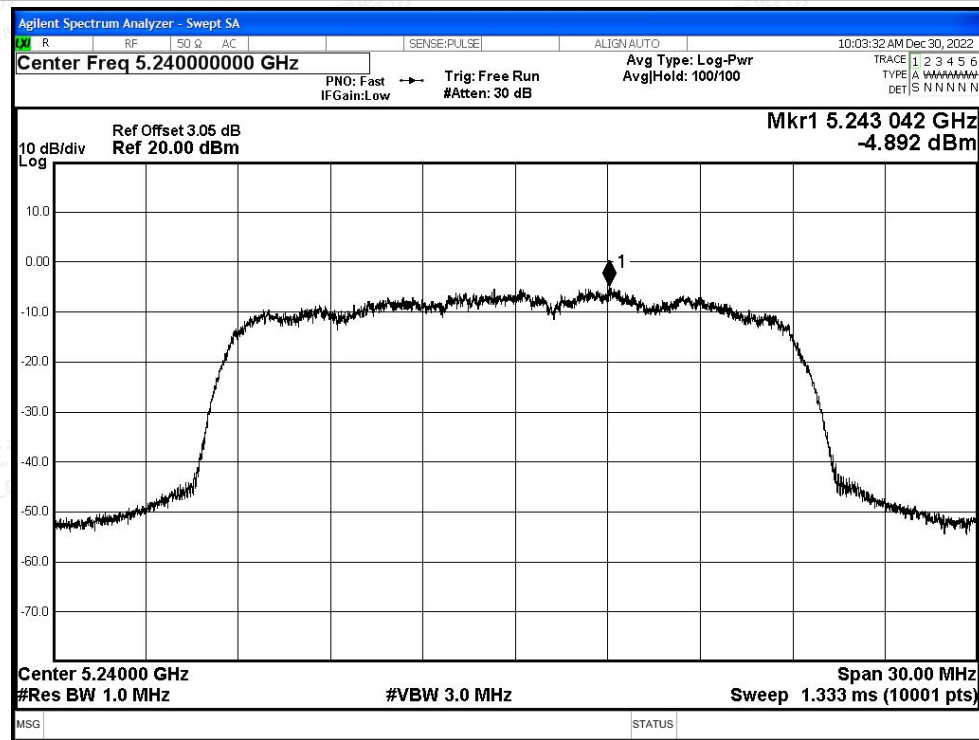
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PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

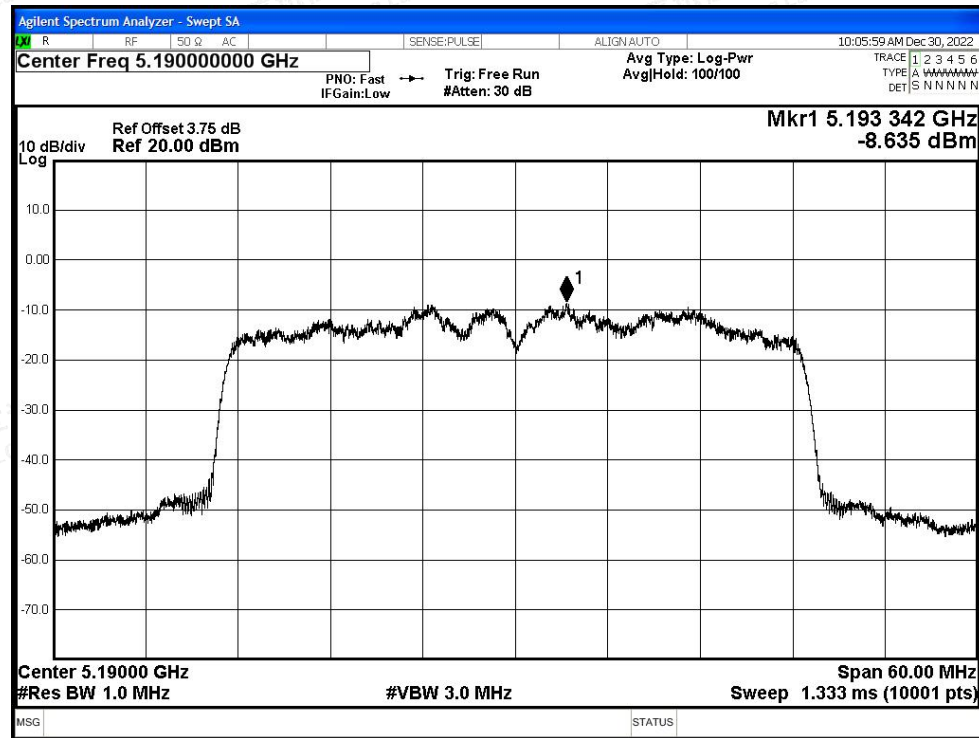
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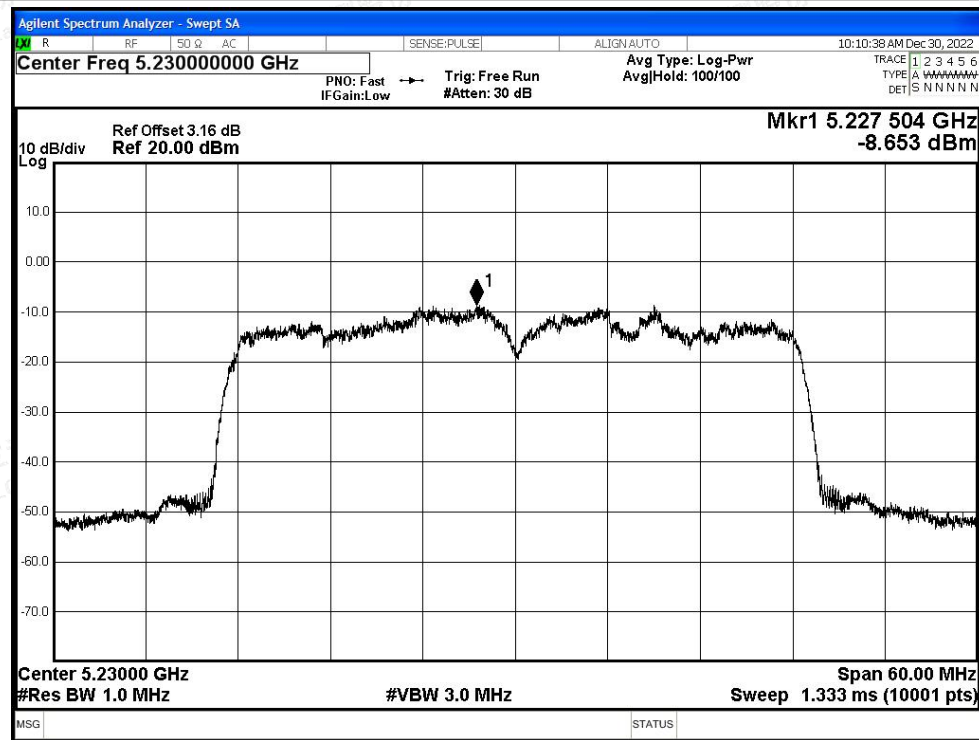
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PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



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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	-50.84	2	46.39	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.69	2	37.54	Average	54	Pass
NVNT	a	5180	Ant1	5136.3	-45.32	2	51.91	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-56.12	2	41.11	Average	54	Pass
NVNT	a	5180	Ant1	5150	-46.77	2	50.46	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-56.17	2	41.06	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.61	2	48.62	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-58.67	2	38.56	Average	54	Pass
NVNT	a	5240	Ant1	5407.2	-45.84	2	51.39	Peak	68.2	Pass
NVNT	a	5240	Ant1	5359.44	-58.37	2	38.86	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.05	2	47.18	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-59.08	2	38.15	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-50.43	2	46.8	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.52	2	37.71	Average	54	Pass
NVNT	n20	5180	Ant1	5144.7	-45.4	2	51.83	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-56.13	2	41.1	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-47.3	2	49.93	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-56.12	2	41.11	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.23	2	49	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-58.26	2	38.97	Average	54	Pass
NVNT	n20	5240	Ant1	5400.96	-46.72	2	50.51	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350.08	-58.26	2	38.97	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.46	2	46.77	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-59.33	2	37.9	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.87	2	46.36	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.16	2	38.07	Average	54	Pass
NVNT	n40	5190	Ant1	5146.78	-39.05	2	58.18	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5148.97	-54.07	2	43.16	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-44.82	2	52.41	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.14	2	43.09	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.61	2	48.62	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-58	2	39.23	Average	54	Pass
NVNT	n40	5230	Ant1	5394.39	-46.2	2	51.03	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5352	-57.9	2	39.33	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.48	2	46.75	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-59.07	2	38.16	Average	54	Pass



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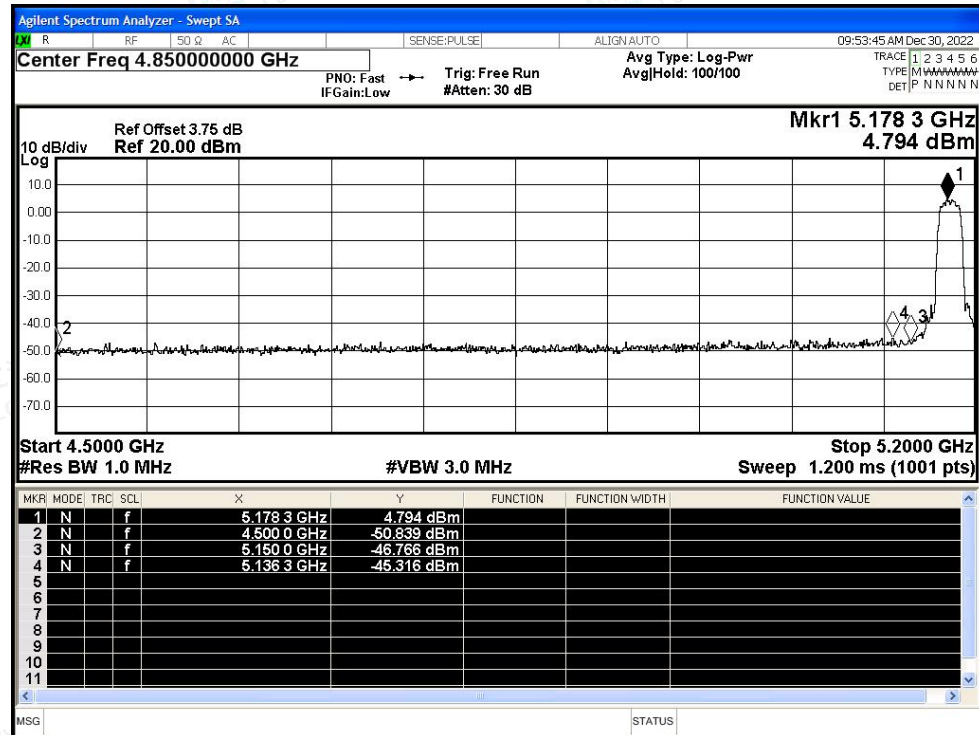
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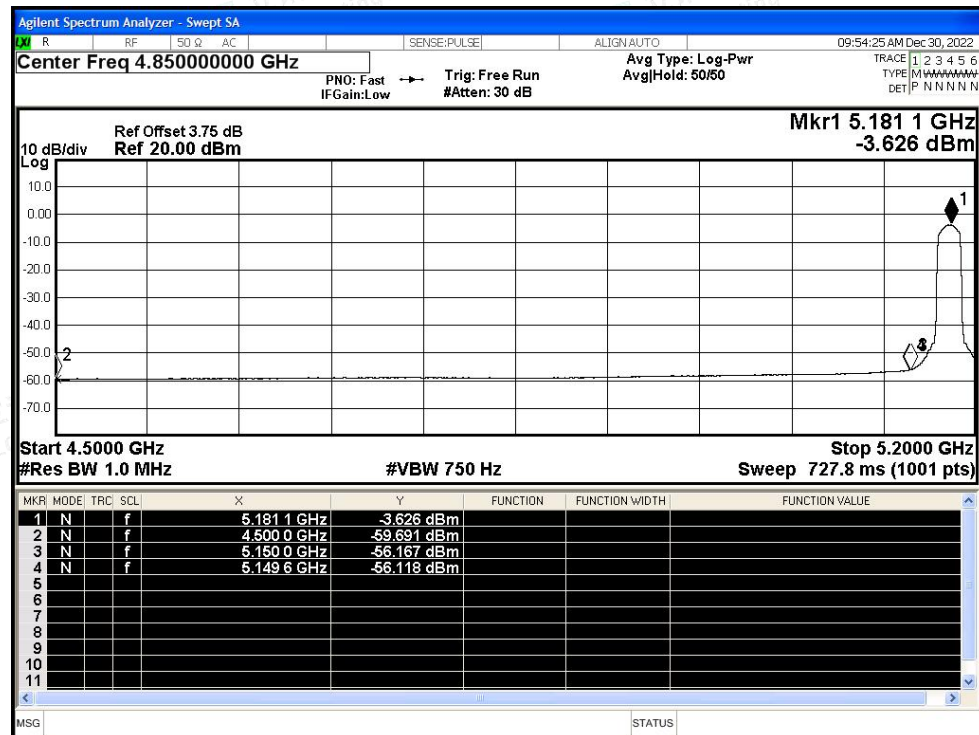


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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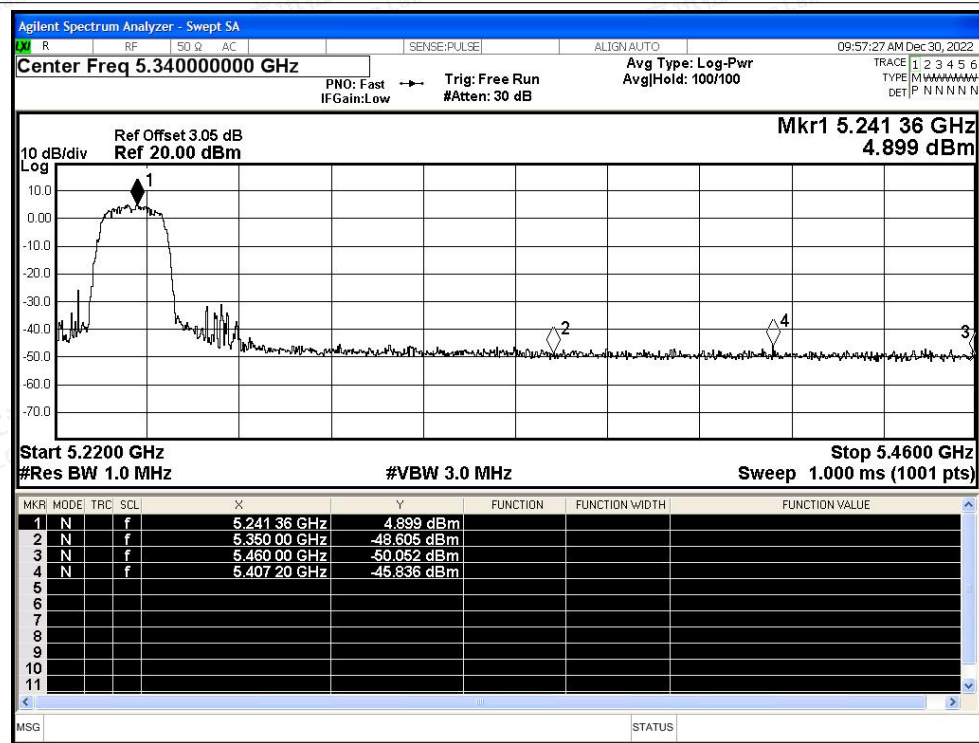
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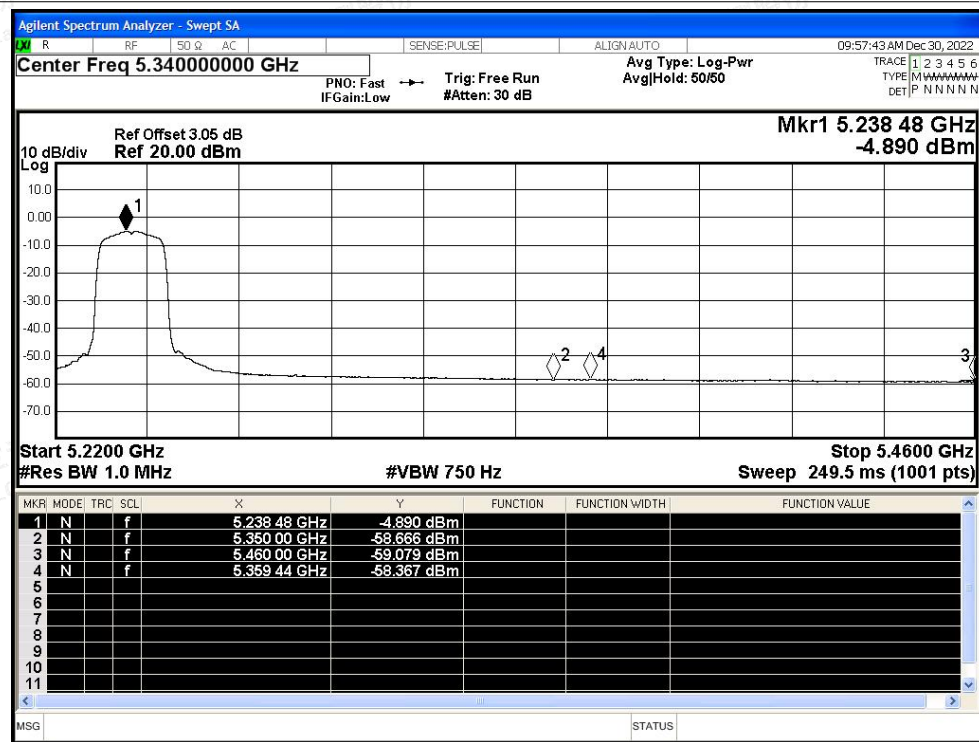
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



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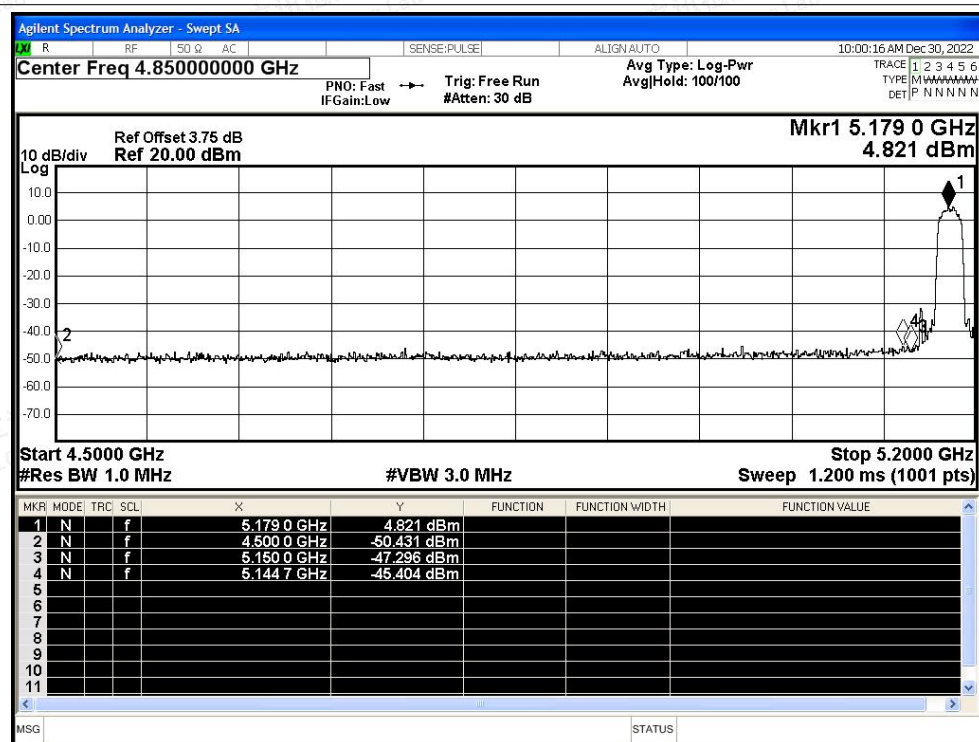
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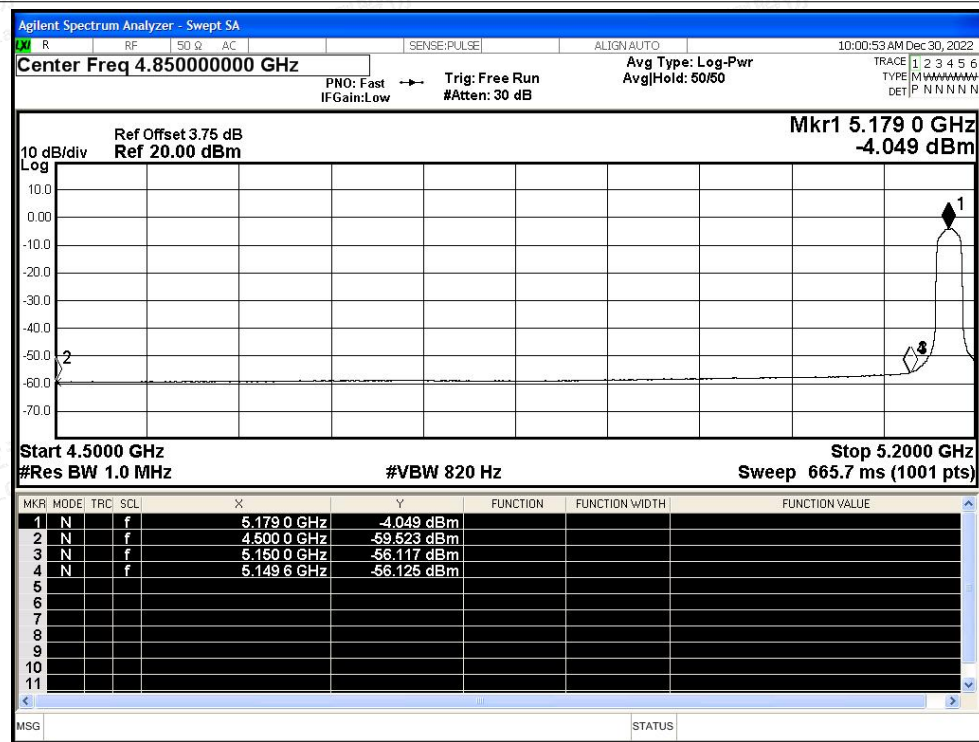
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



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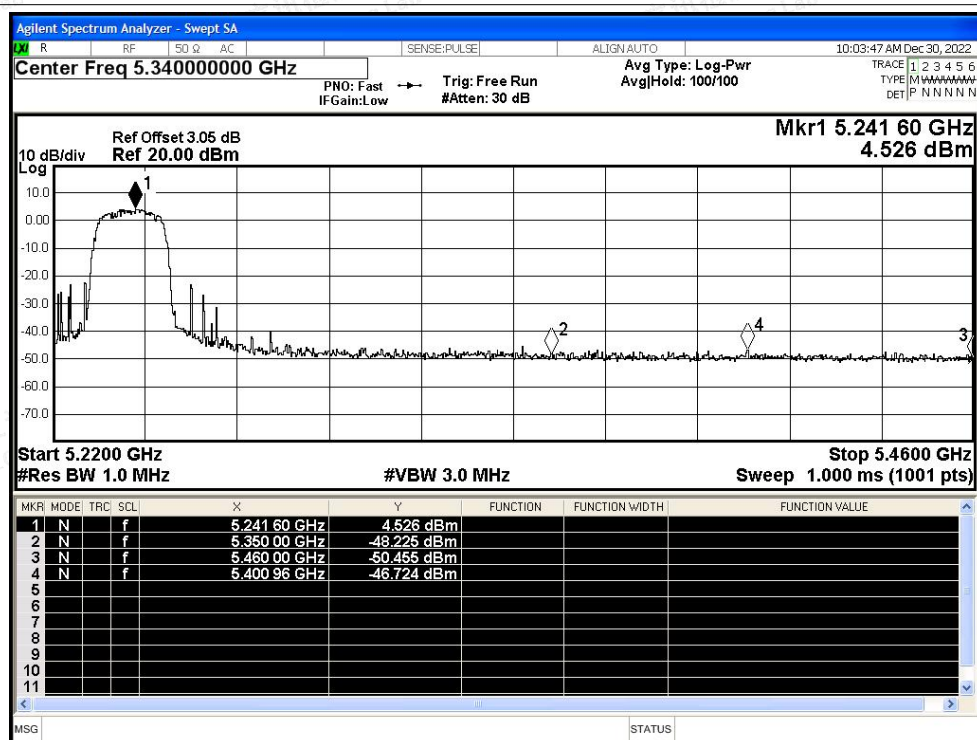
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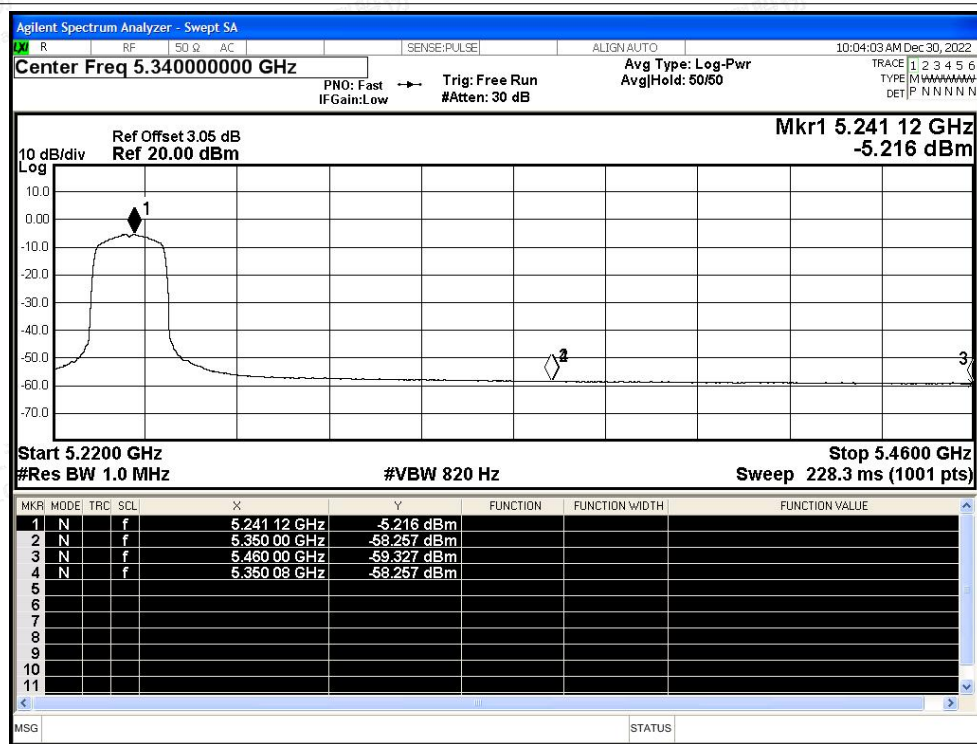
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



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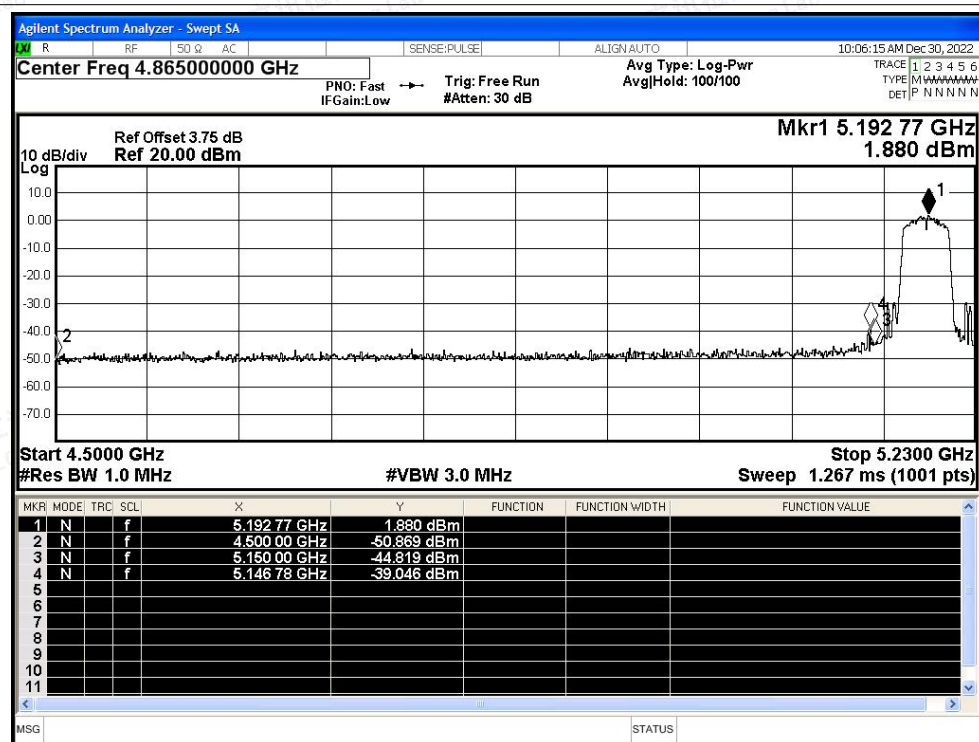
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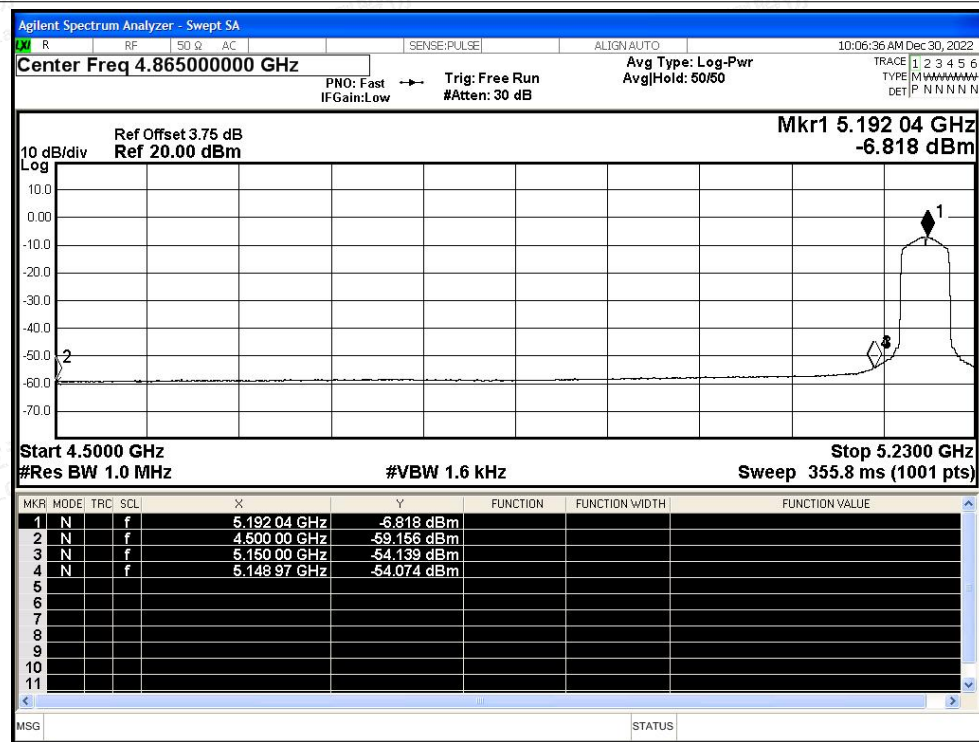
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Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



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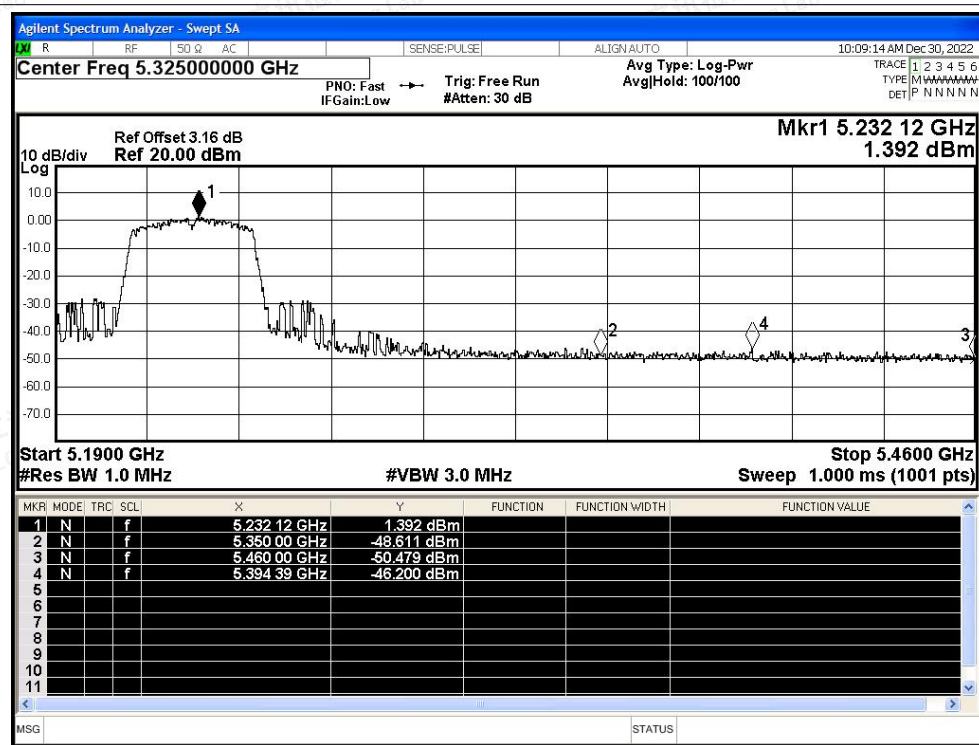
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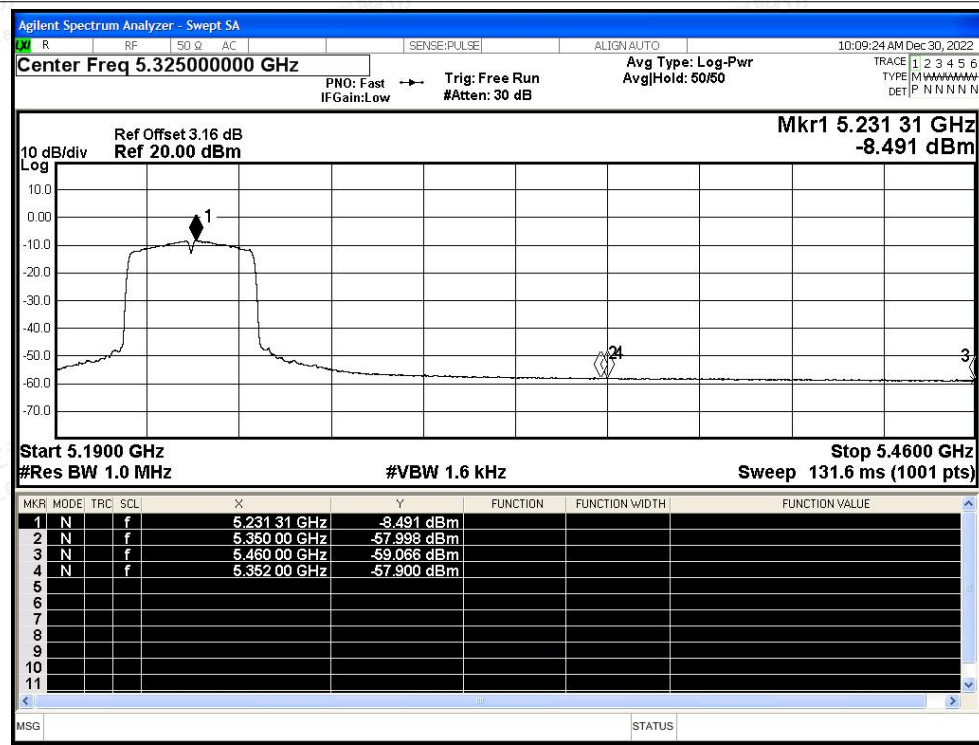
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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D.5 Frequency Stability

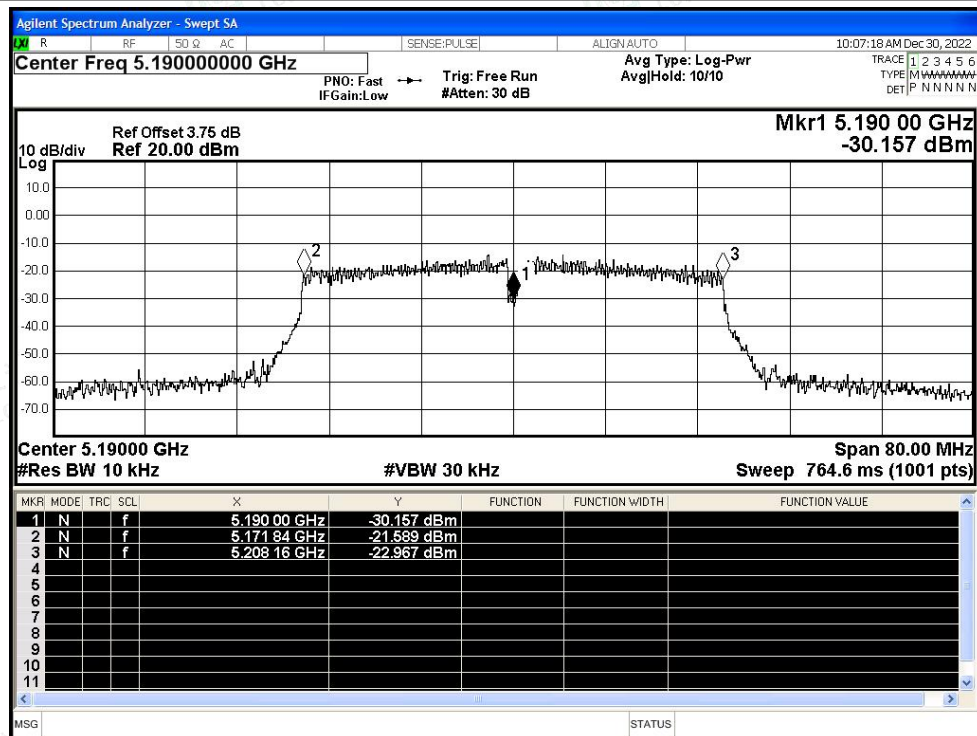
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass



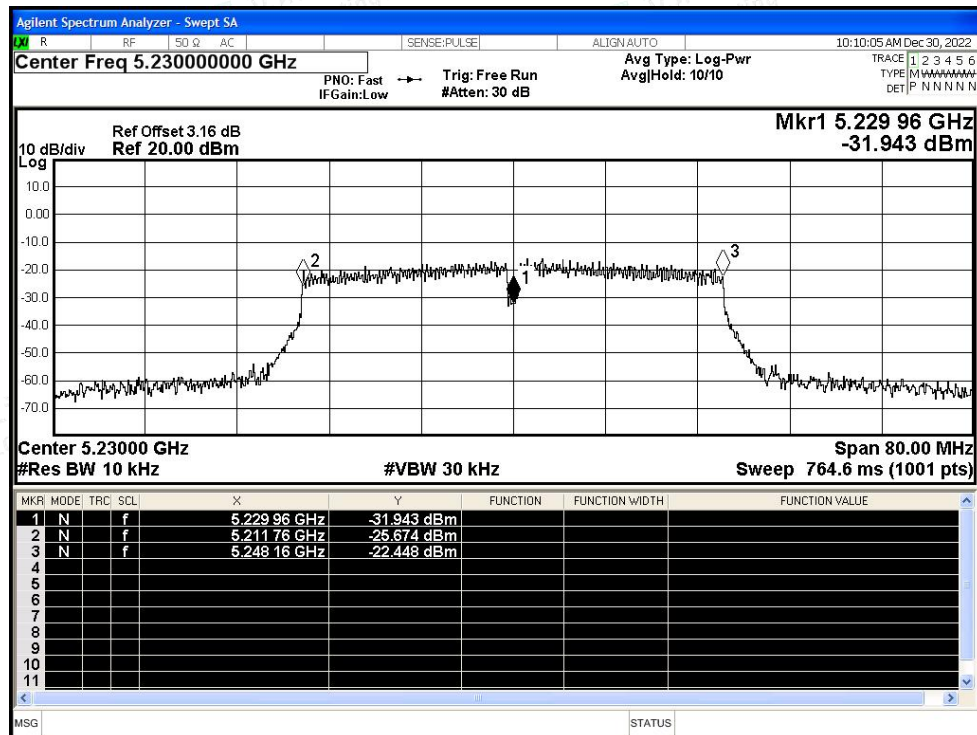


Test Graphs

Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



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D.6 Duty Cycle

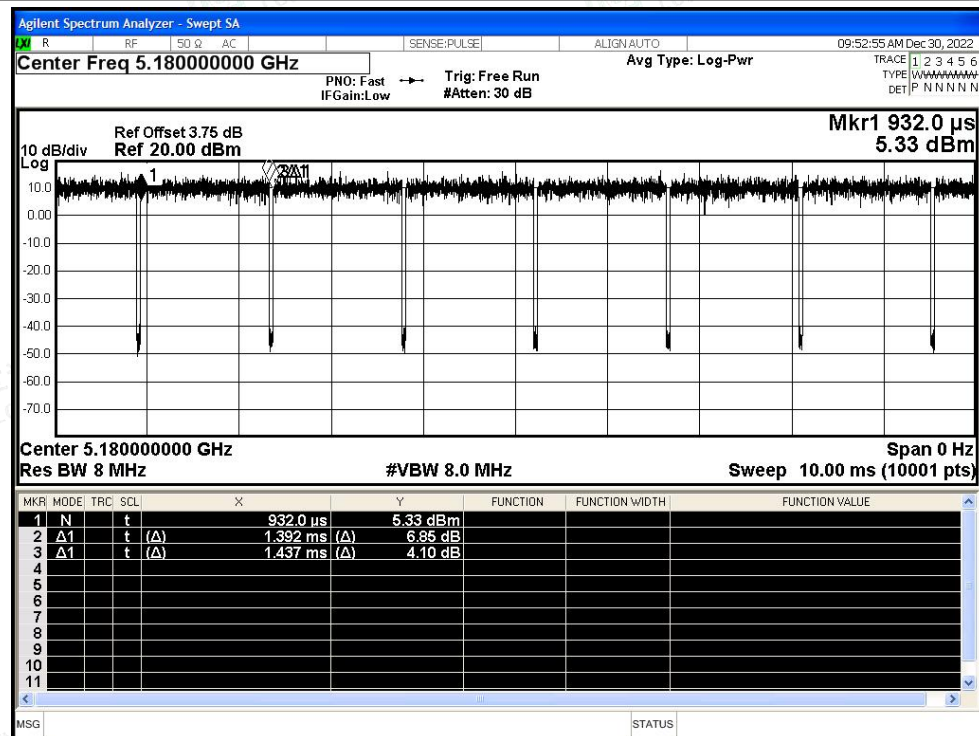
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	96.87	0.14	0.72
NVNT	a	5200	Ant1	96.94	0.13	0.72
NVNT	a	5240	Ant1	96.94	0.13	0.72
NVNT	n20	5180	Ant1	96.73	0.14	0.77
NVNT	n20	5200	Ant1	96.73	0.14	0.77
NVNT	n20	5240	Ant1	96.73	0.14	0.77
NVNT	n40	5190	Ant1	93.79	0.28	1.54
NVNT	n40	5230	Ant1	93.64	0.29	1.54



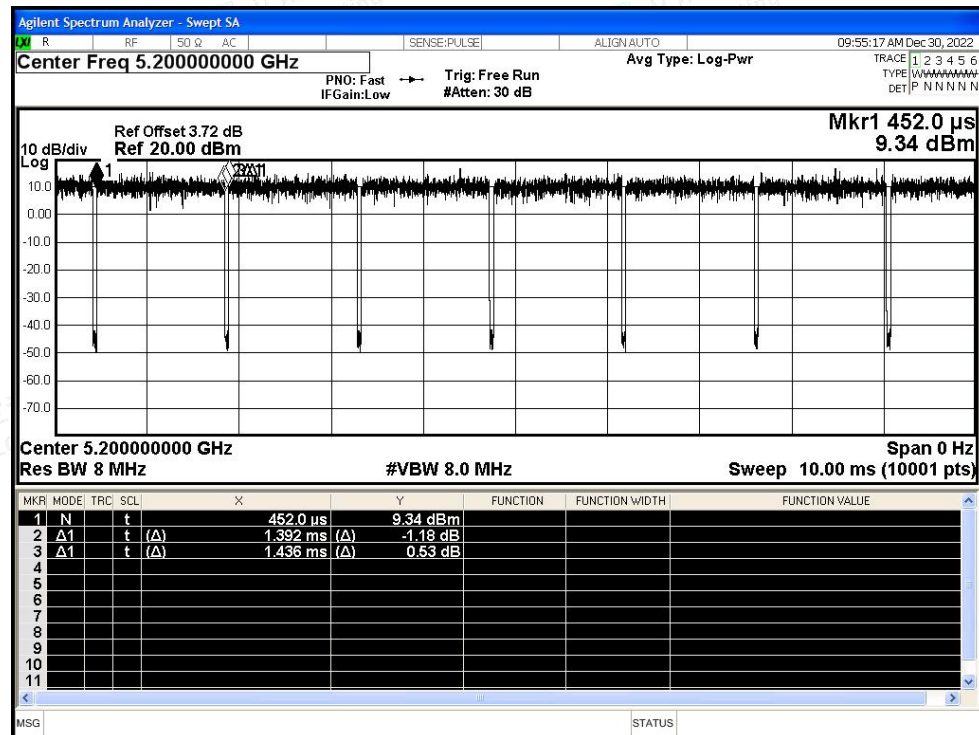


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

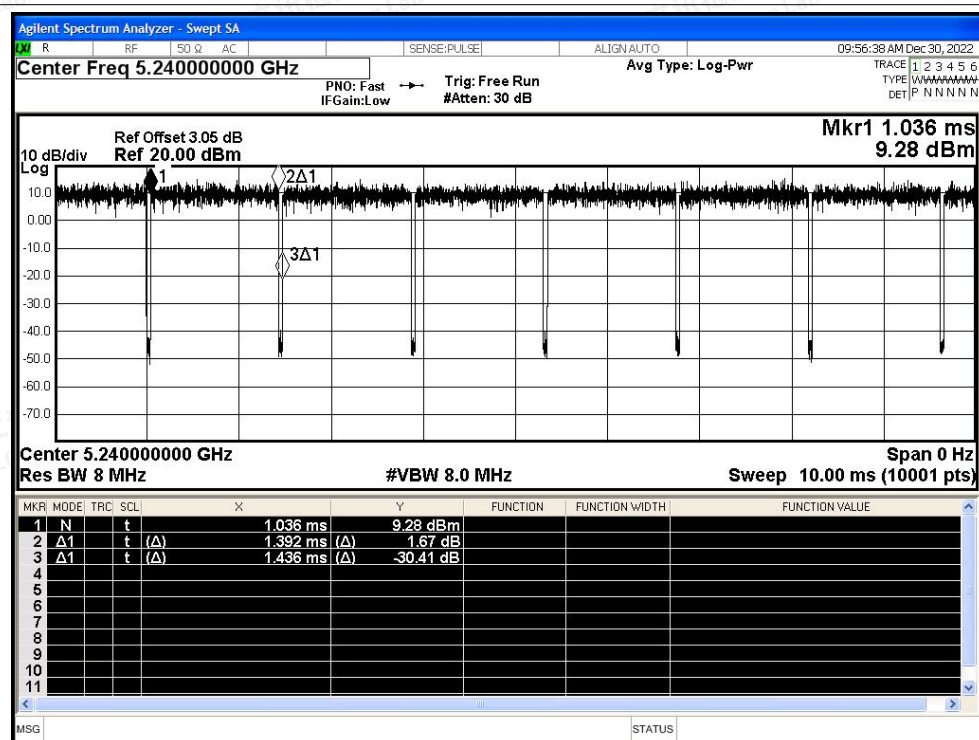
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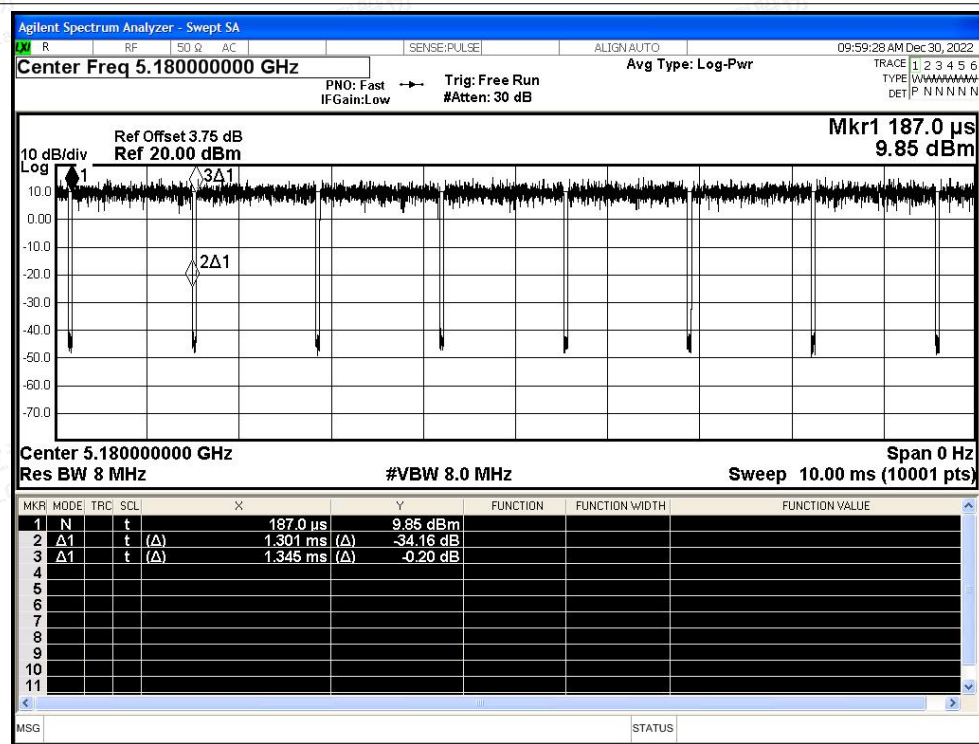
Scan code to check authenticity



Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



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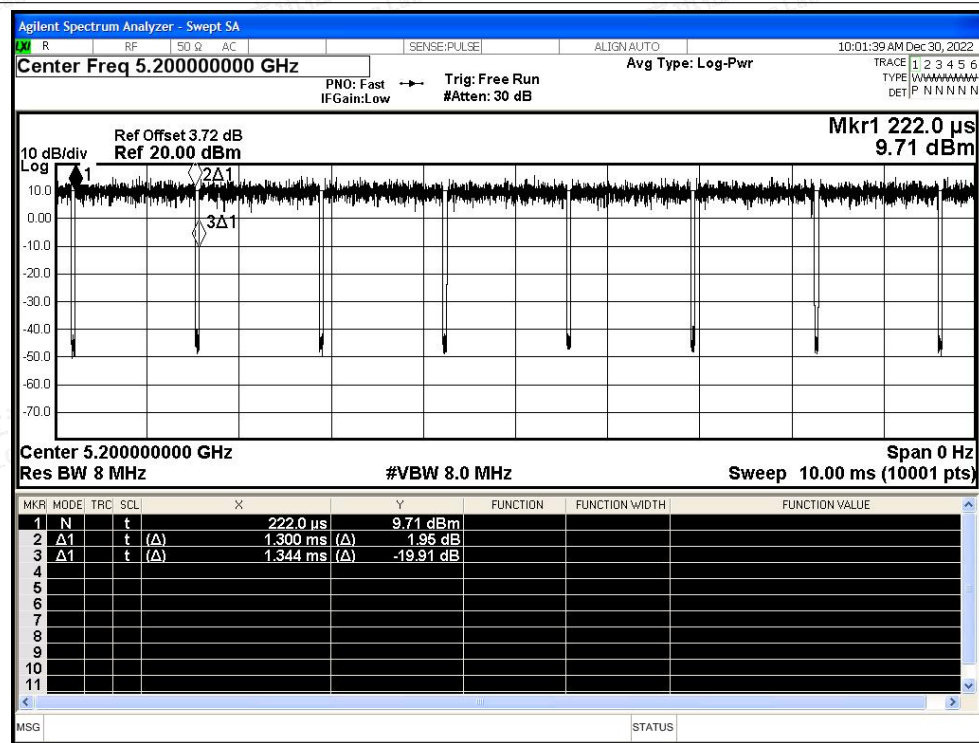
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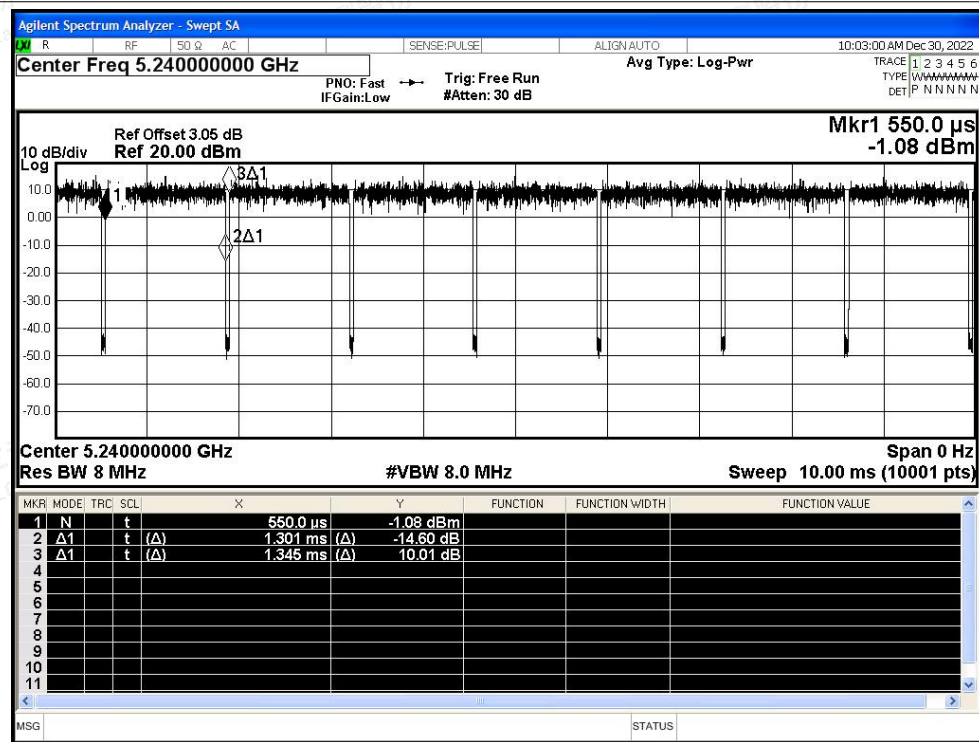
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Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



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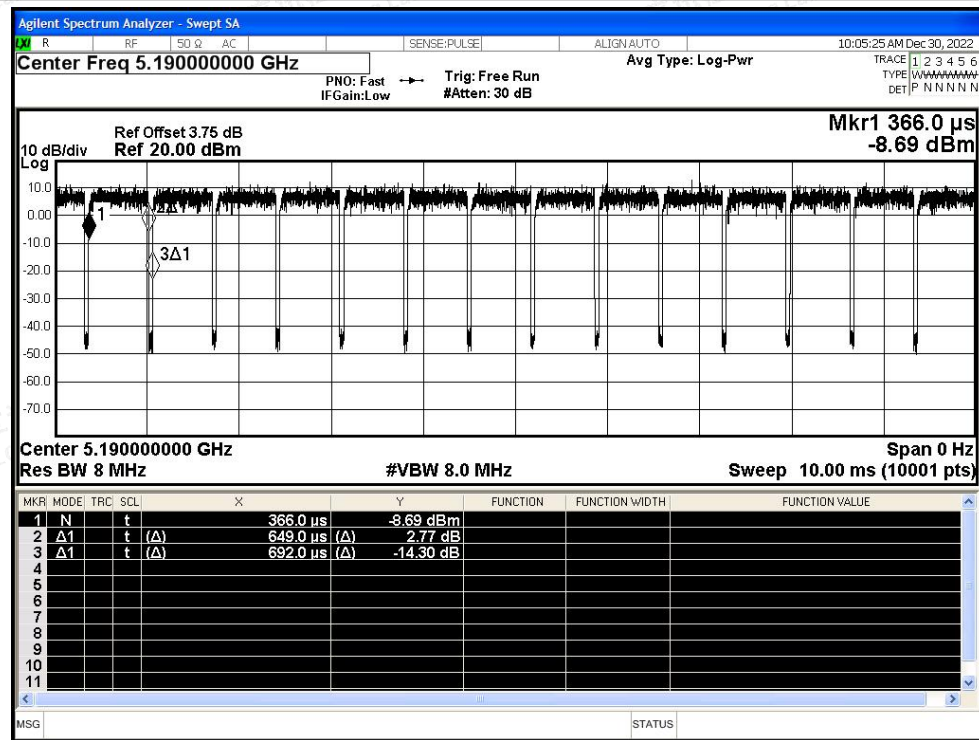
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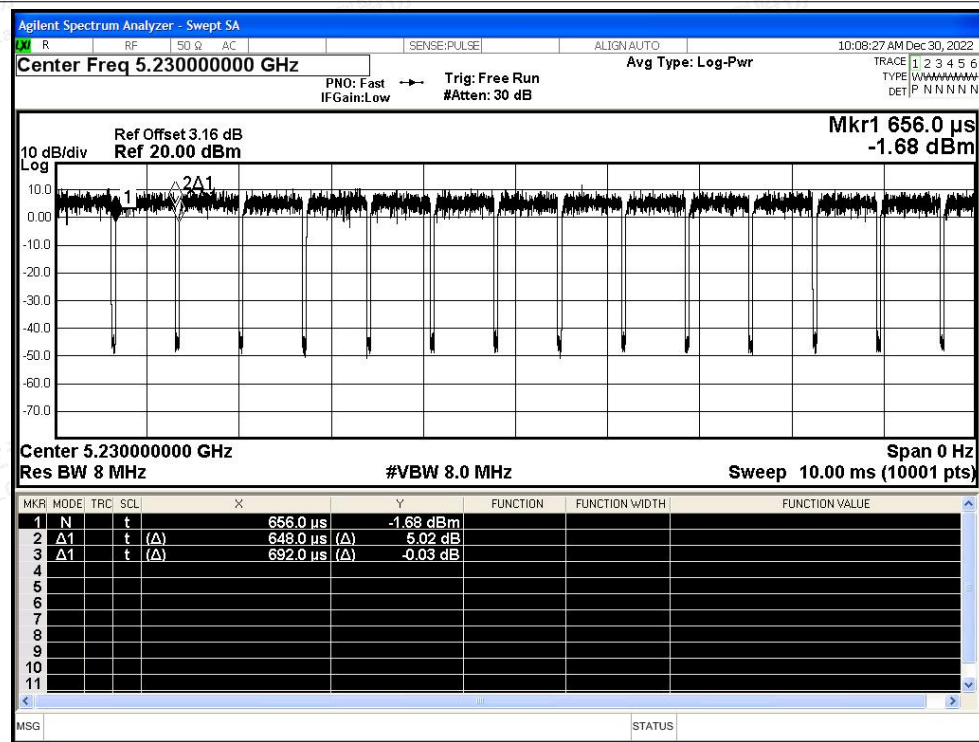
Scan code to check authenticity



Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

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