



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: Edge development board

Test Model: DB3576

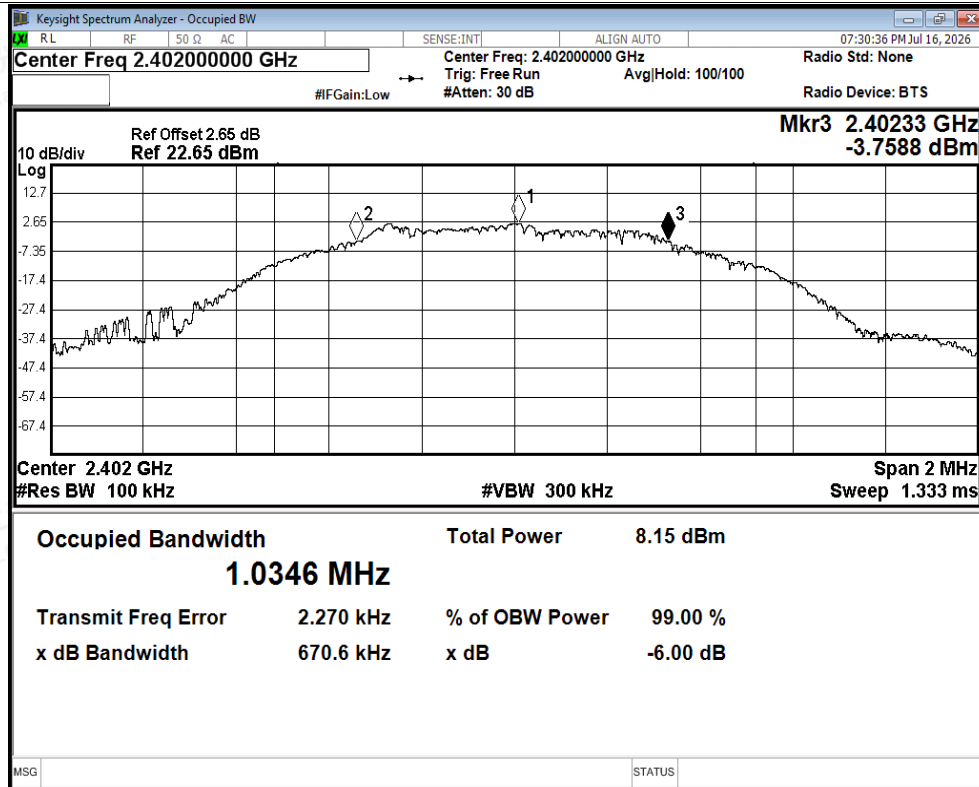
Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun

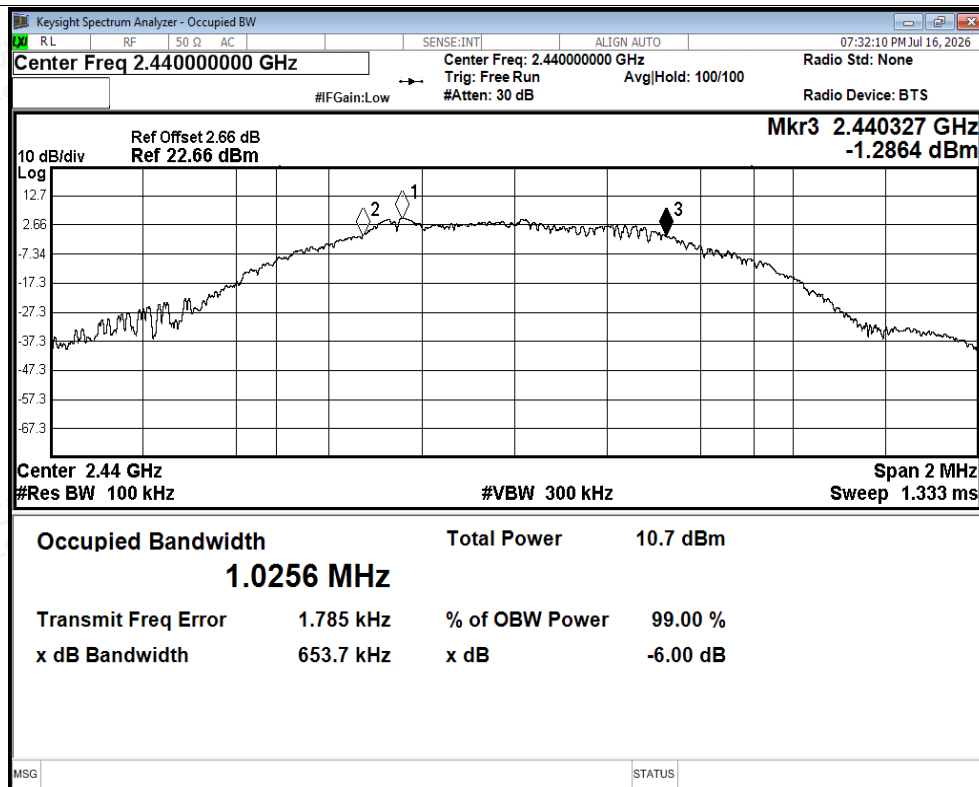


B.1 -6dB Bandwidth

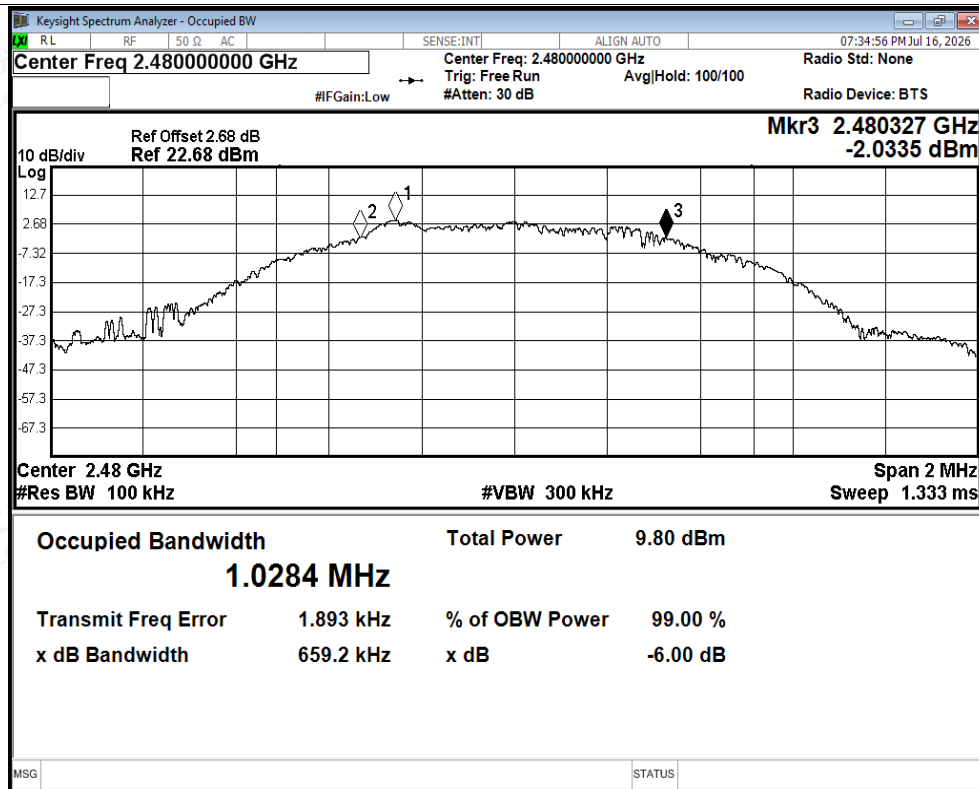
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.6706	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.6537	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.6592	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.132	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.115	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.108	0.5	Pass



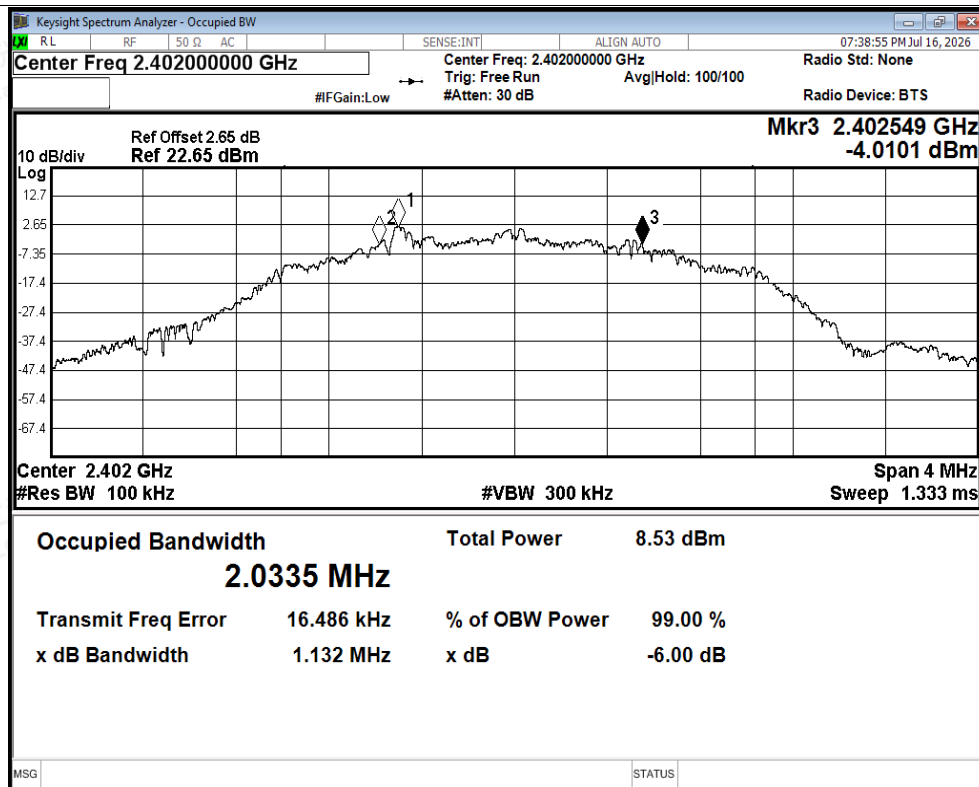
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



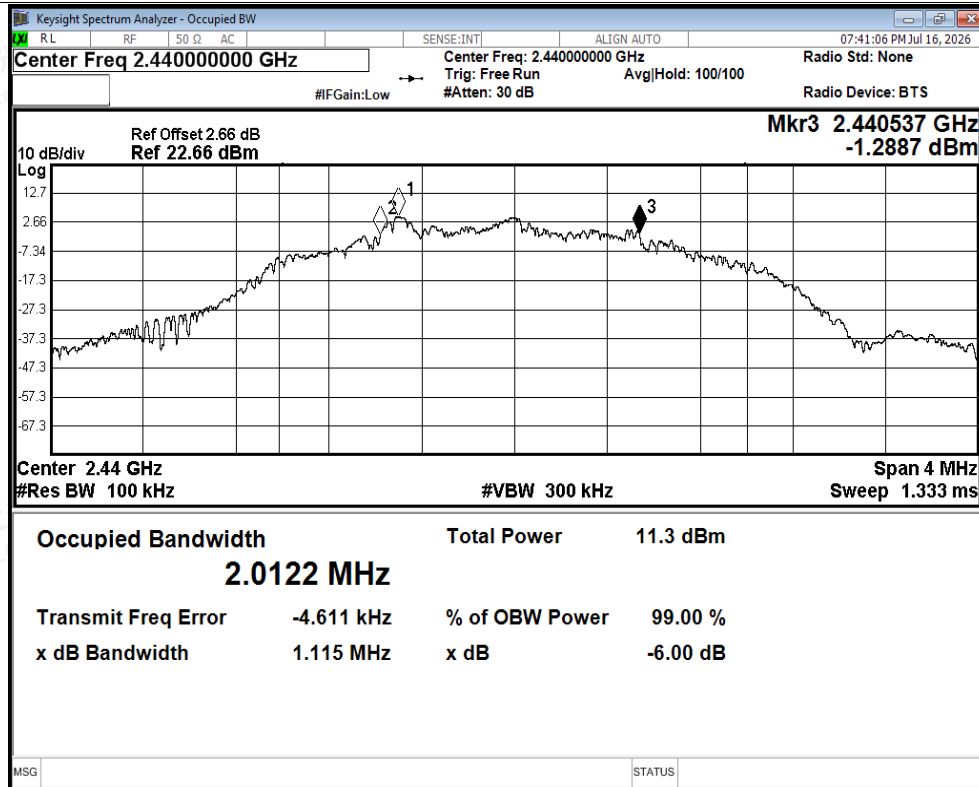
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



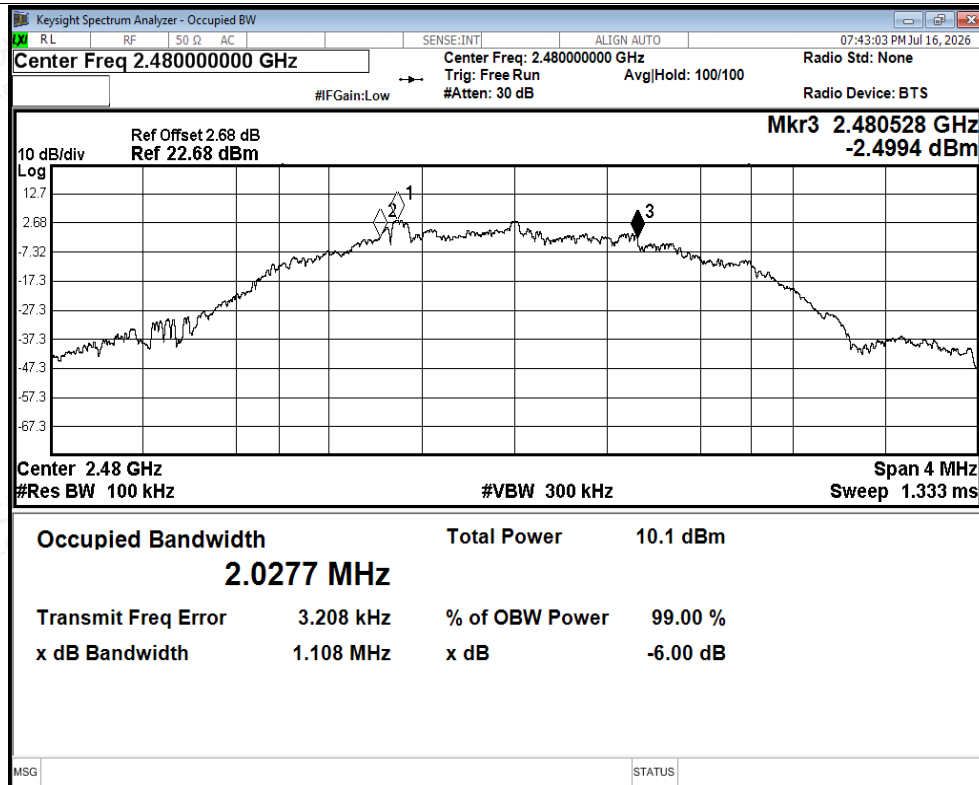
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1

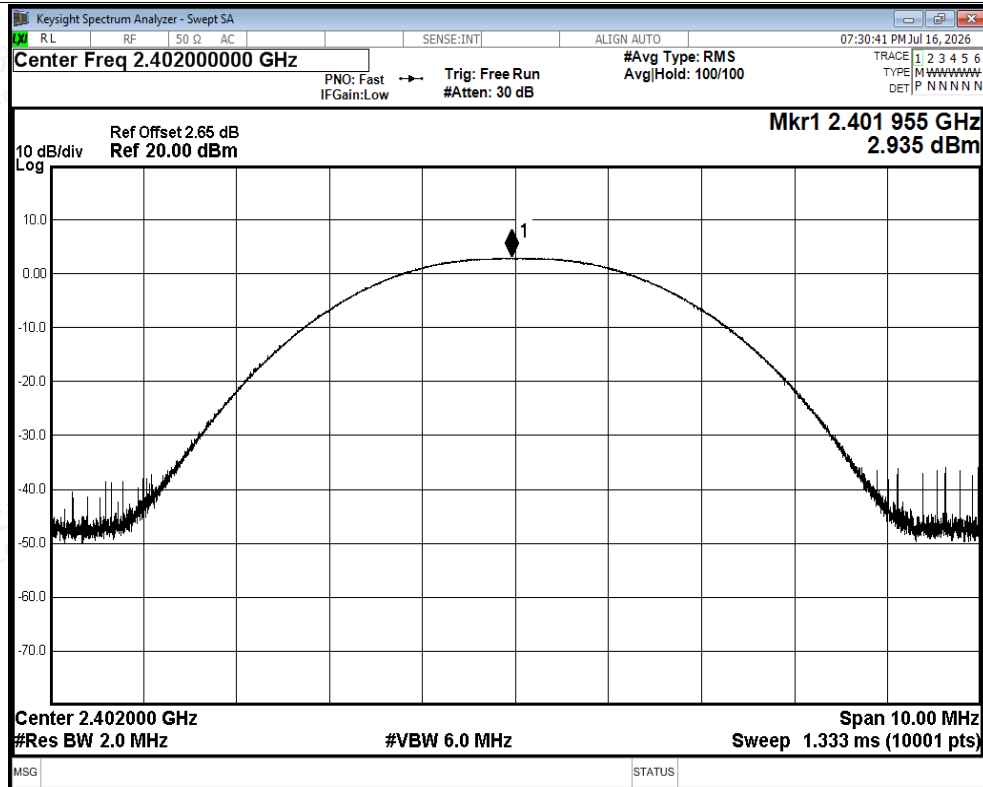


-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

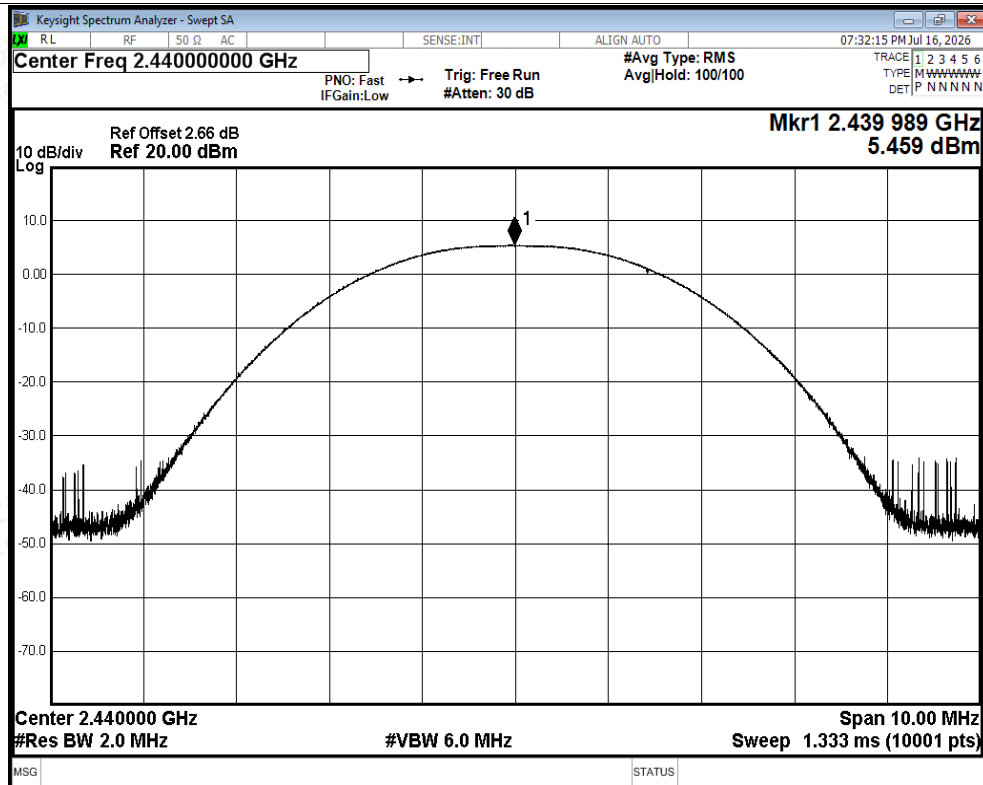


B.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	2.94	30	Pass
NVNT	BLE 1M	2440	Ant1	5.46	30	Pass
NVNT	BLE 1M	2480	Ant1	4.53	30	Pass
NVNT	BLE 2M	2402	Ant1	2.75	30	Pass
NVNT	BLE 2M	2440	Ant1	5.18	30	Pass
NVNT	BLE 2M	2480	Ant1	4.25	30	Pass



Peak Power NVNT BLE 1M 2402MHz Ant1

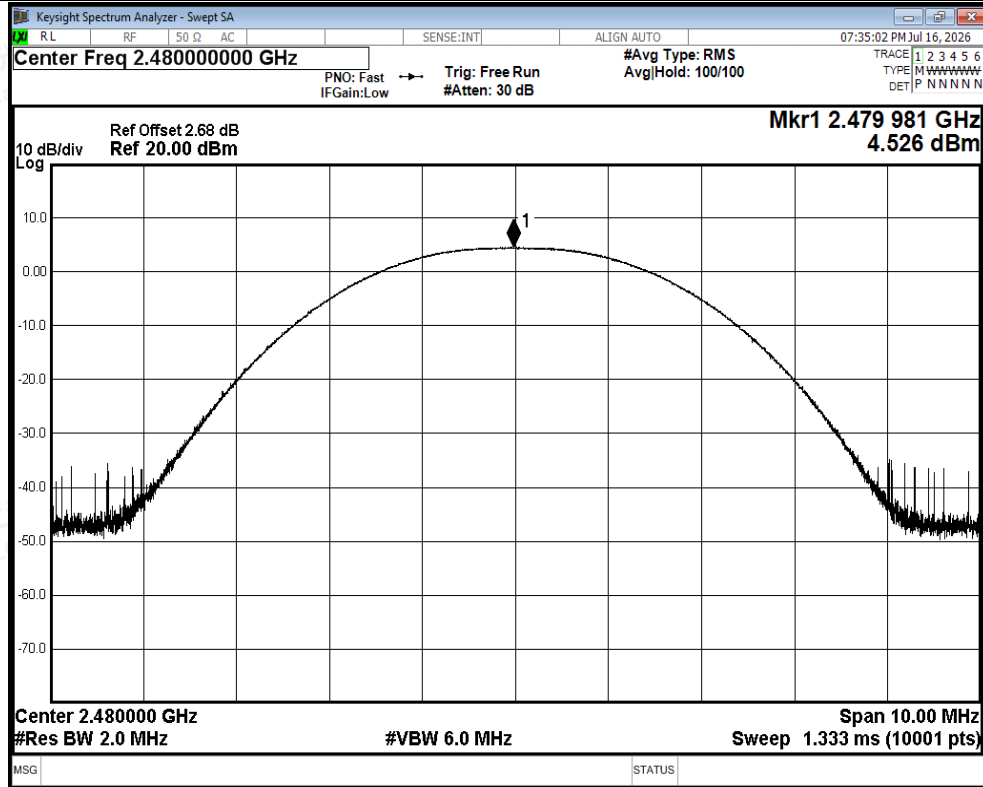


Peak Power NVNT BLE 1M 2440MHz Ant1

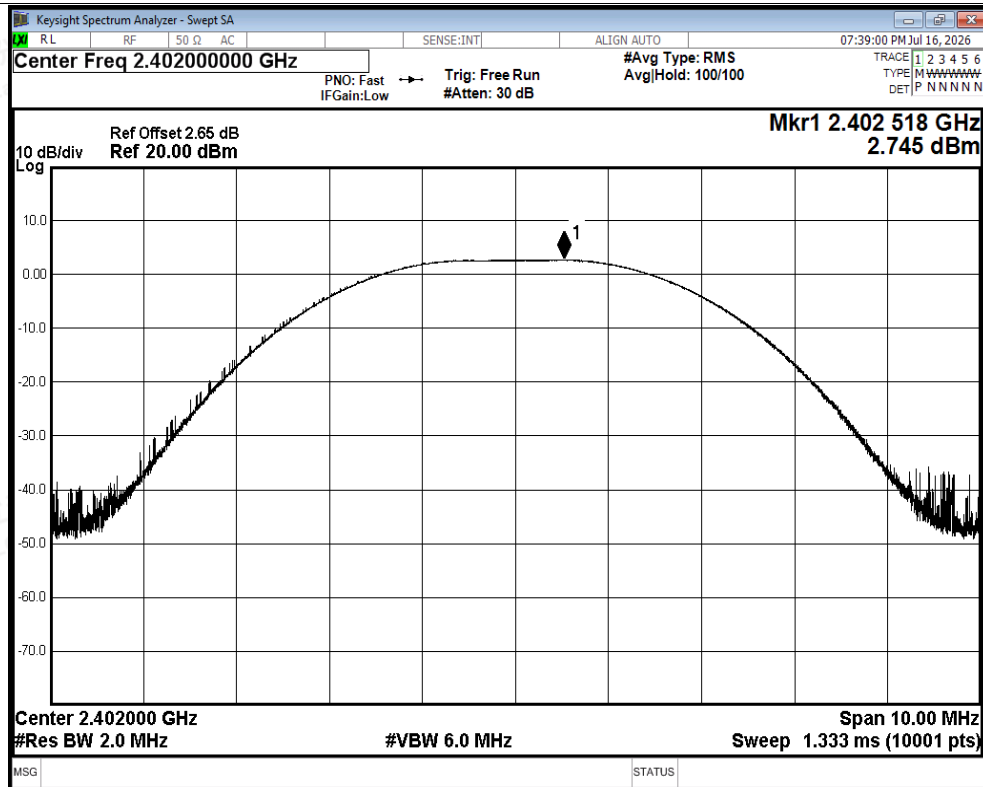
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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Peak Power NVNT BLE 1M 2480MHz Ant1

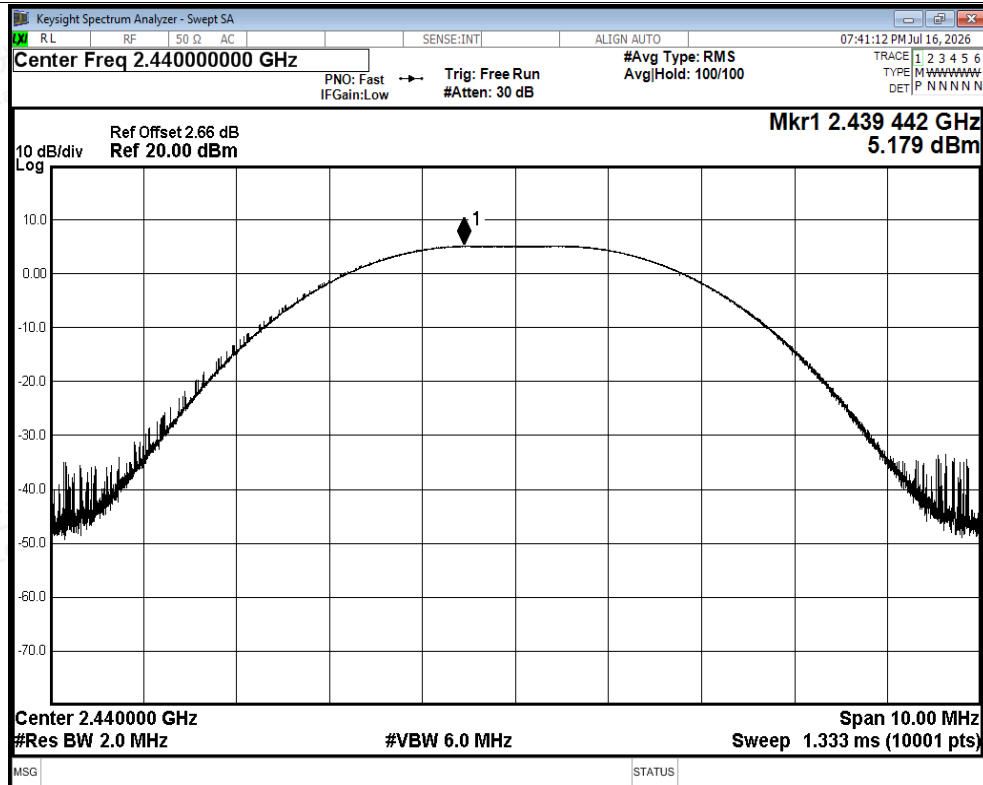


Peak Power NVNT BLE 2M 2402MHz Ant1

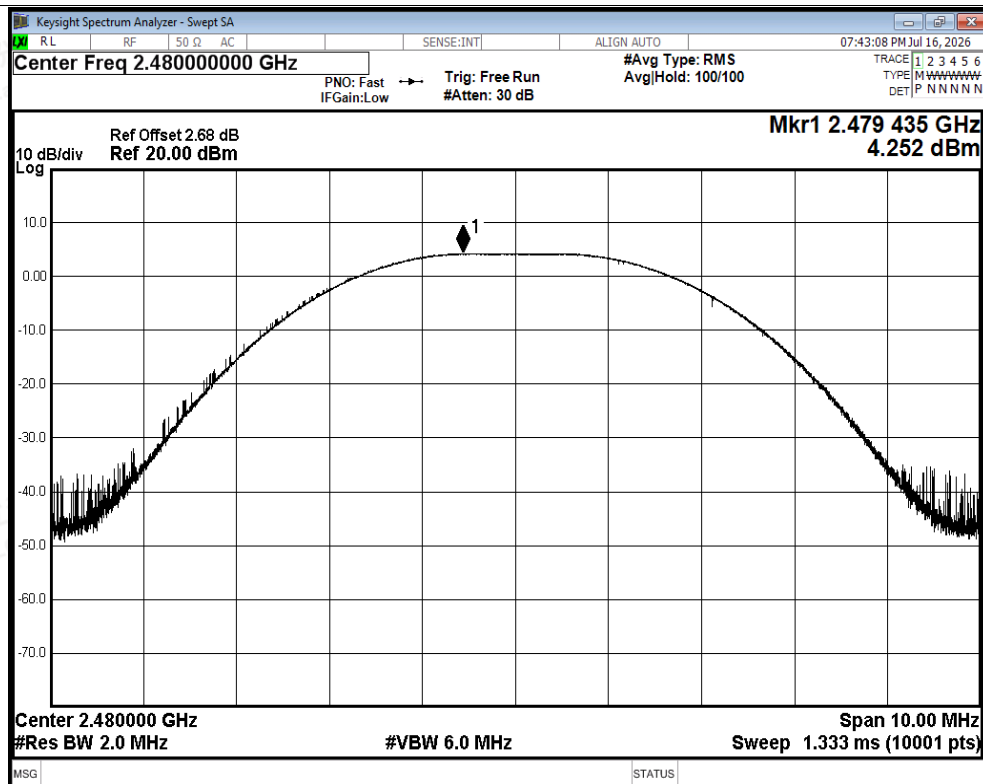
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Peak Power NVNT BLE 2M 2440MHz Ant1



Peak Power NVNT BLE 2M 2480MHz Ant1

Shenzhen LCS Compliance Testing Laboratory Ltd.

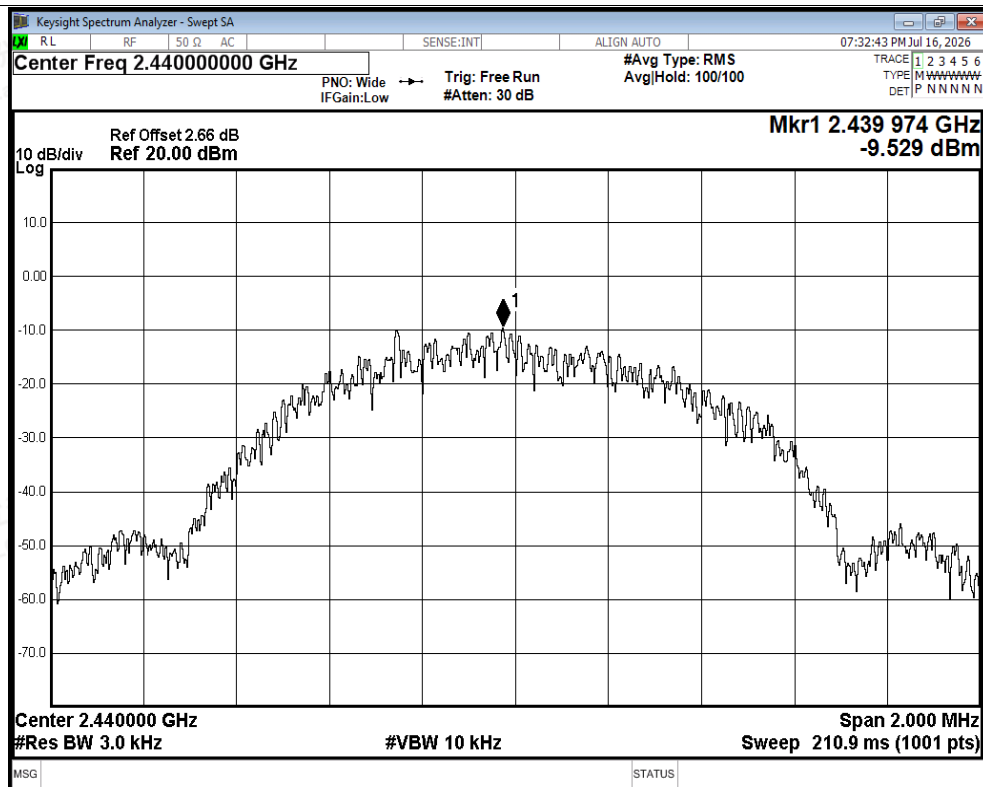
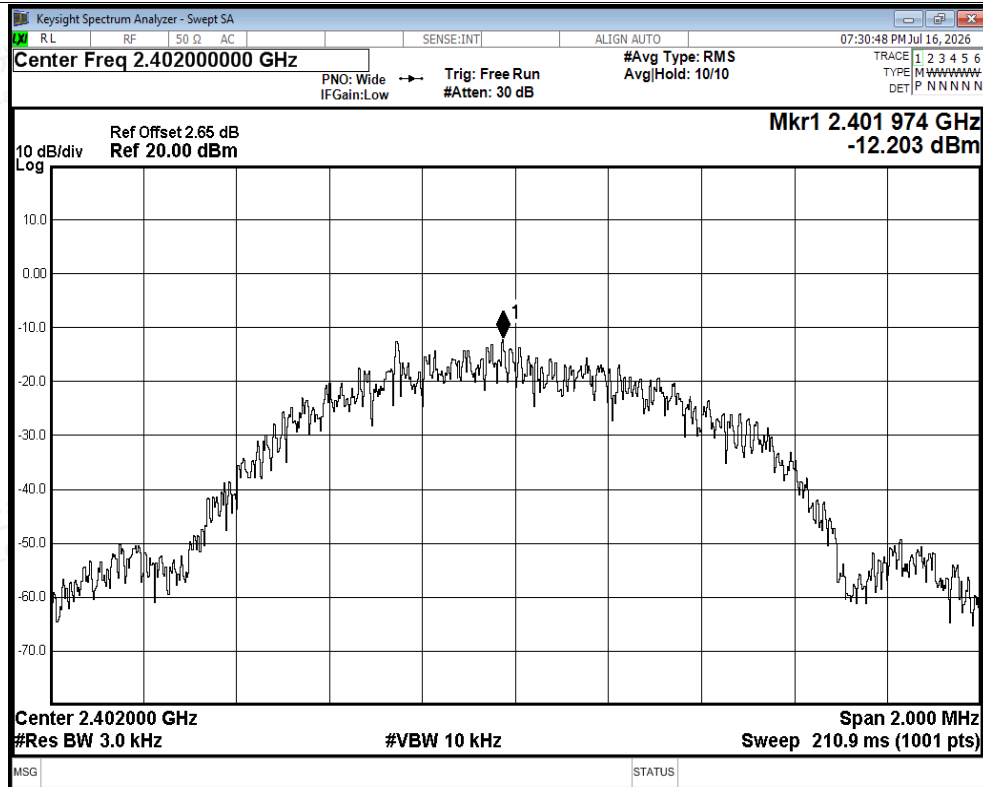
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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B.3 Maximum Power Spectral Density Level

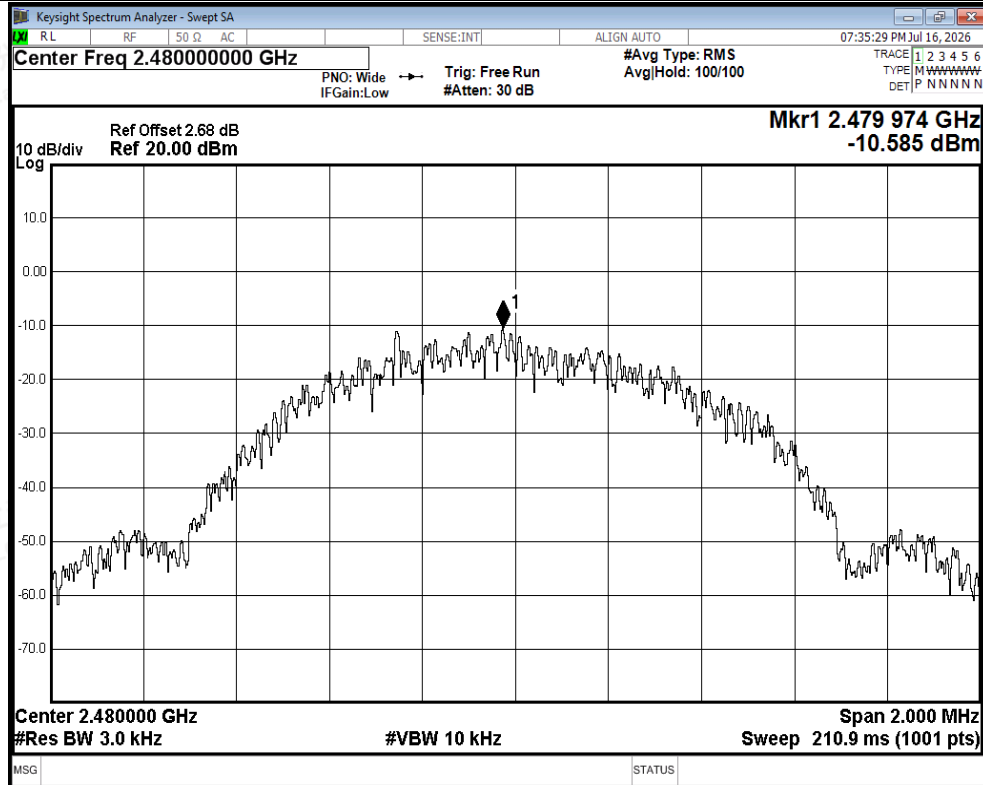
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-12.2	8	Pass
NVNT	BLE 1M	2440	Ant1	-9.53	8	Pass
NVNT	BLE 1M	2480	Ant1	-10.59	8	Pass
NVNT	BLE 2M	2402	Ant1	-14.83	8	Pass
NVNT	BLE 2M	2440	Ant1	-12.05	8	Pass
NVNT	BLE 2M	2480	Ant1	-13.37	8	Pass



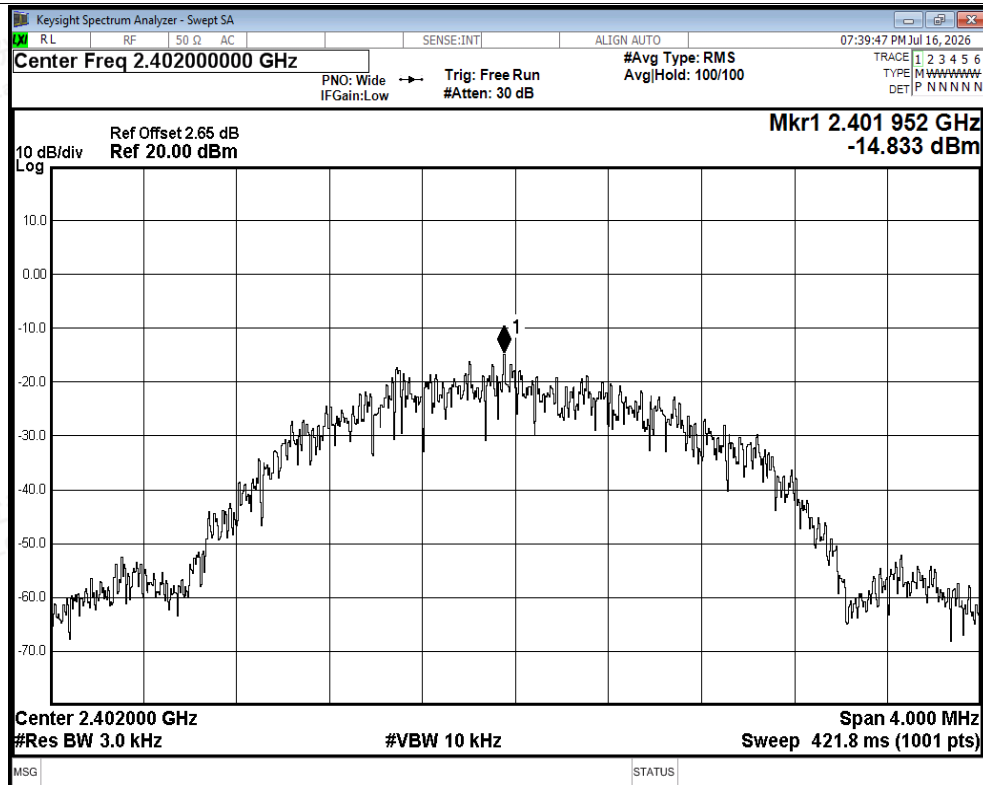
Shenzhen LCS Compliance Testing Laboratory Ltd.

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PSD NVNT BLE 1M 2480MHz Ant1

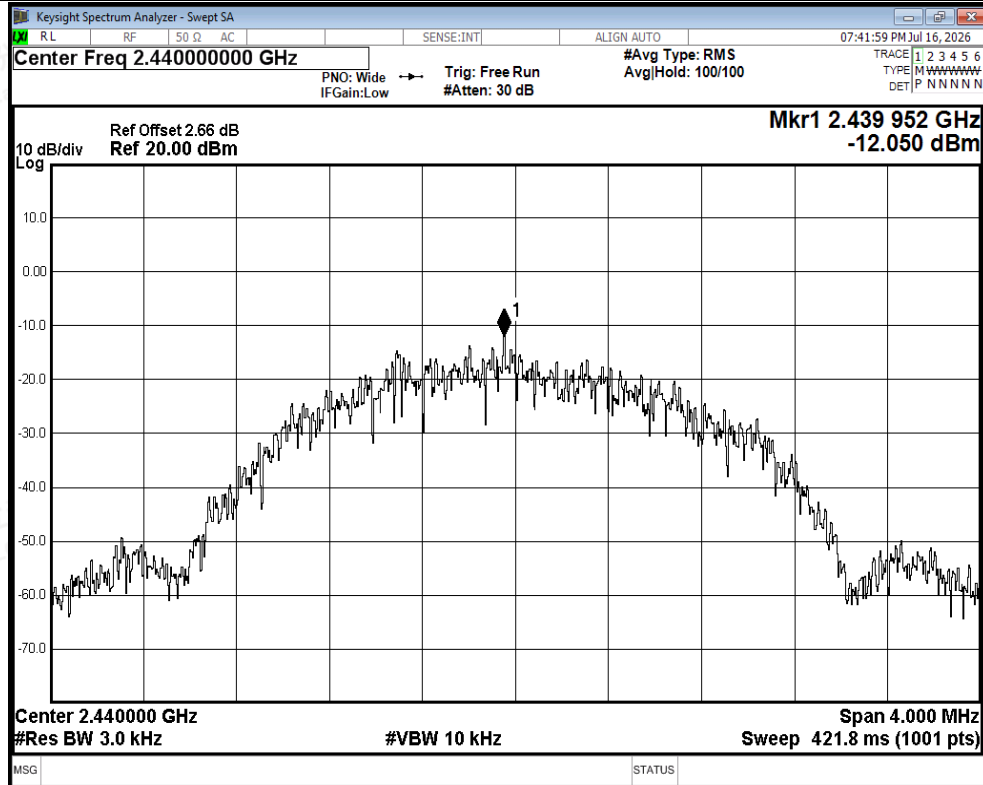


PSD NVNT BLE 2M 2402MHz Ant1

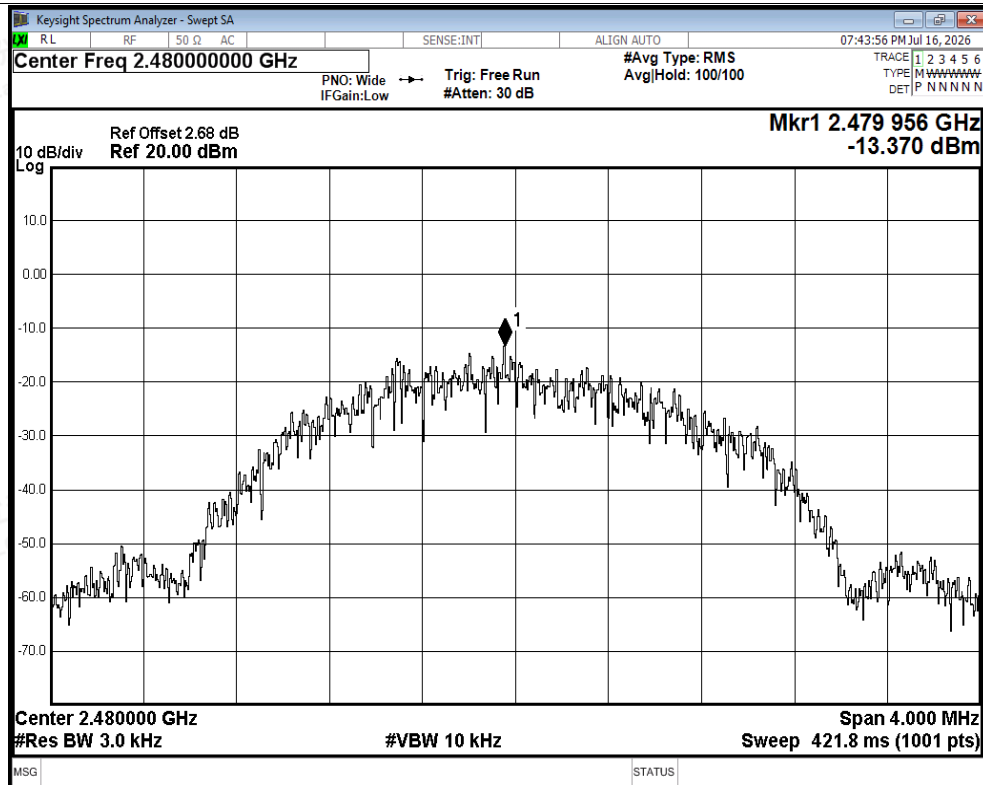
Shenzhen LCS Compliance Testing Laboratory Ltd.

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PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1

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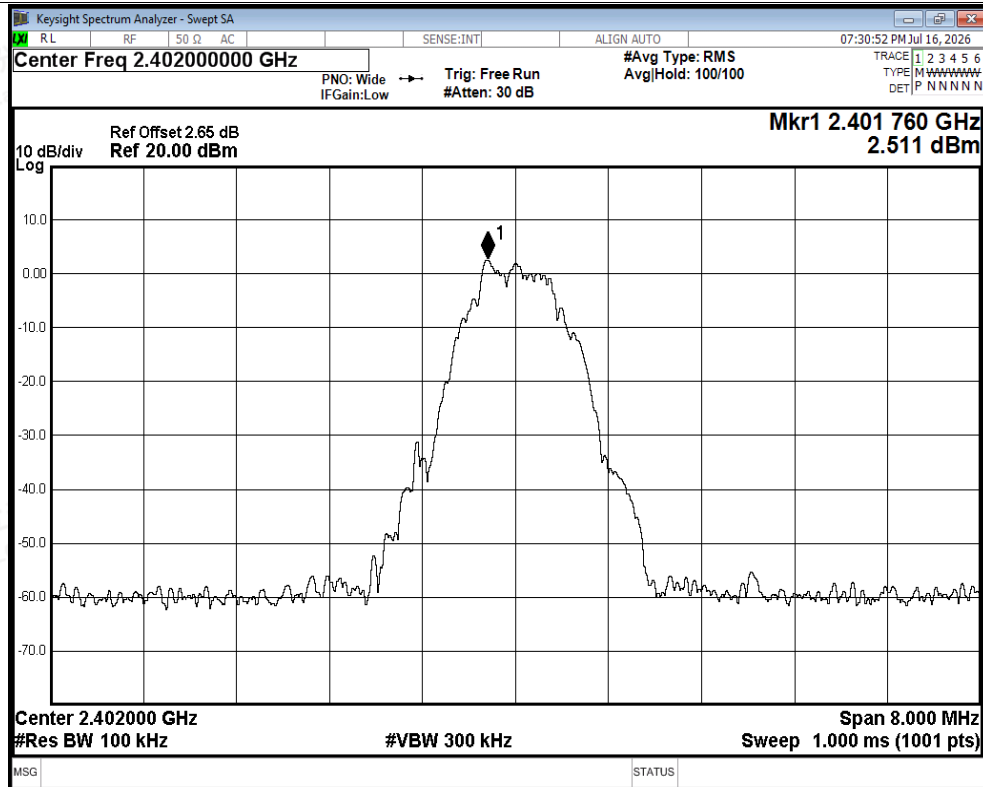
B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-58.73	-20	Pass
NVNT	BLE 1M	2480	Ant1	-59.96	-20	Pass
NVNT	BLE 2M	2402	Ant1	-44.77	-20	Pass
NVNT	BLE 2M	2480	Ant1	-58.65	-20	Pass

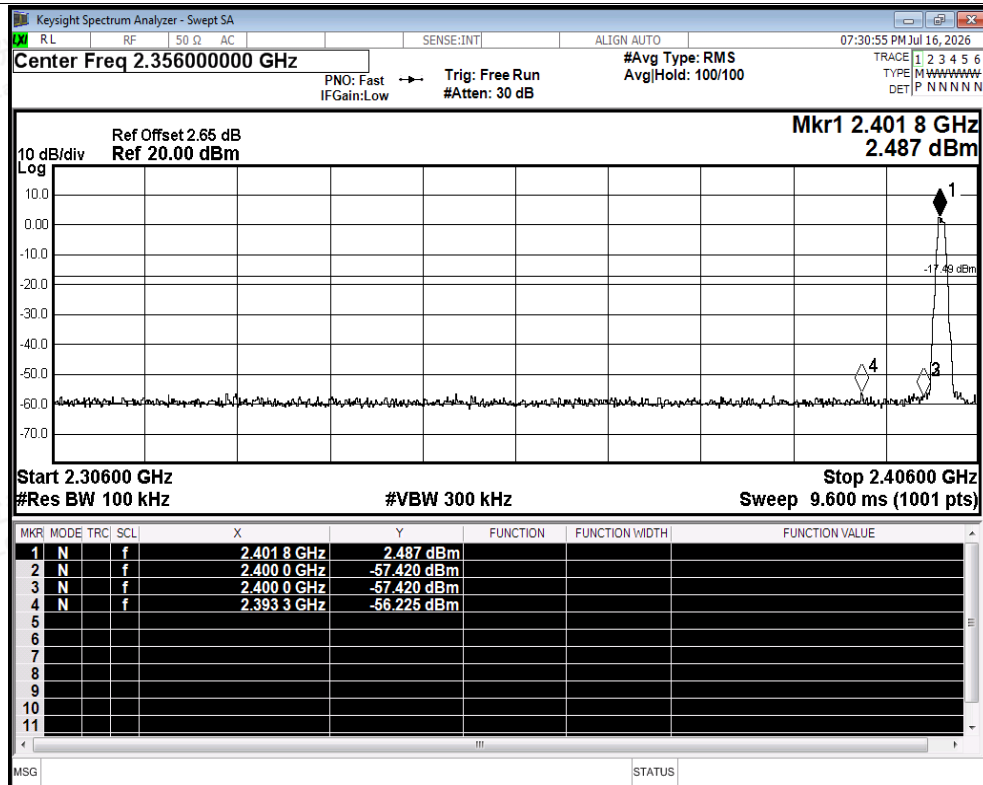
Shenzhen LCS Compliance Testing Laboratory Ltd.

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Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

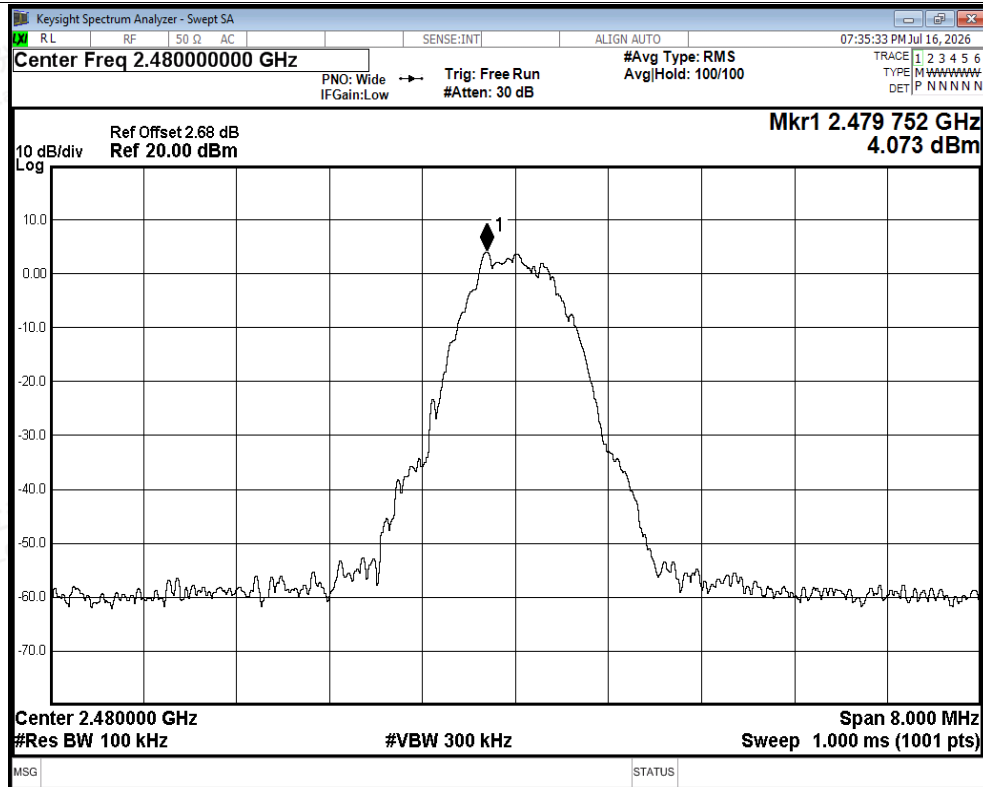


Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

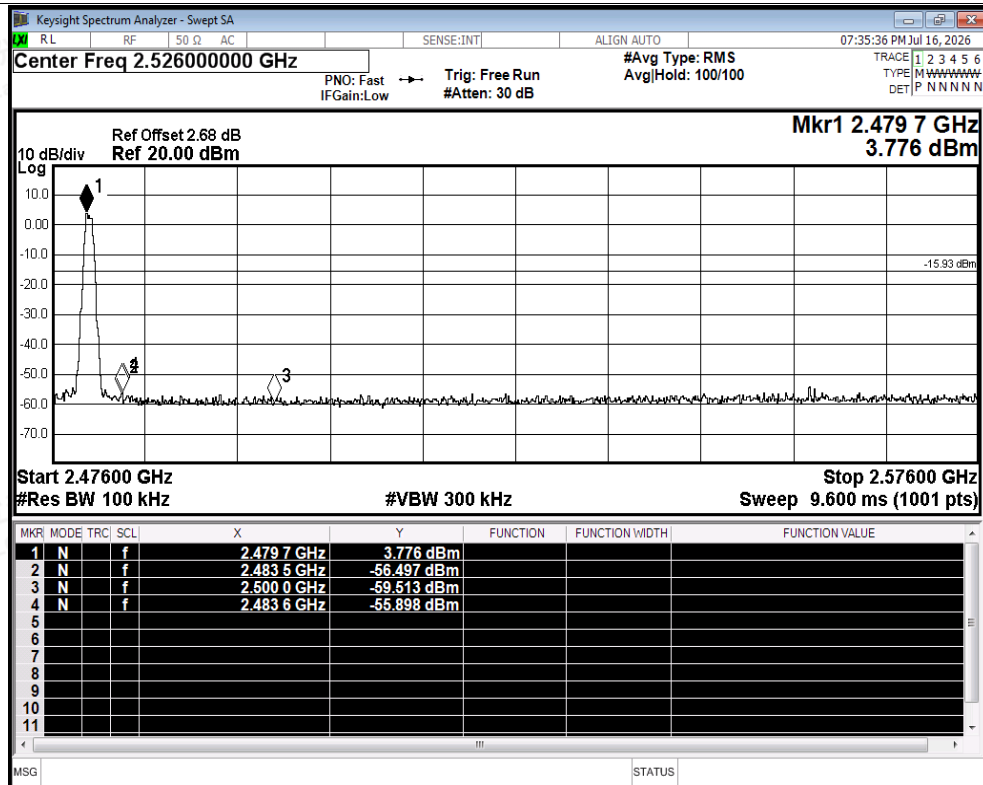
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

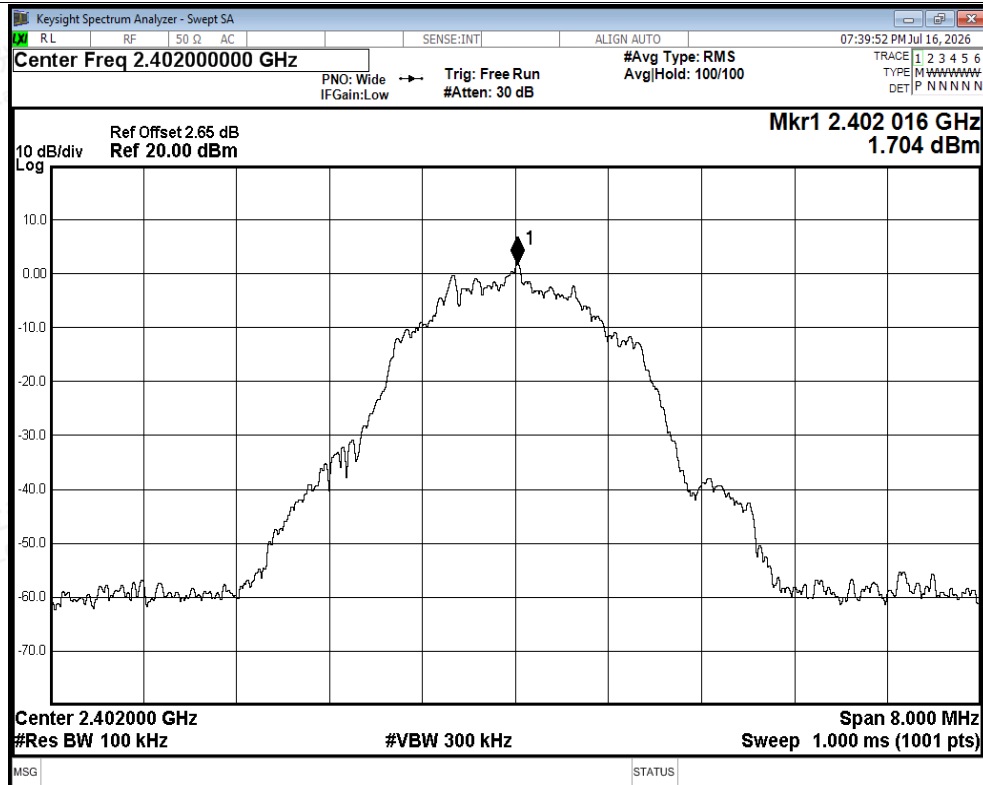
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com



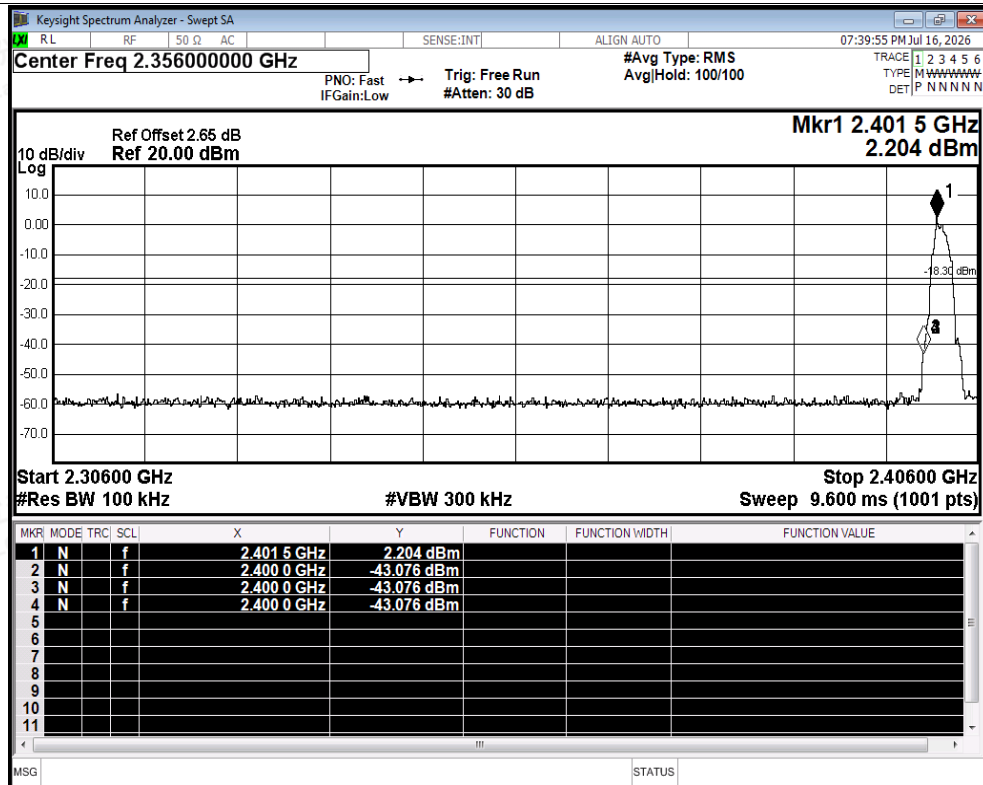
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



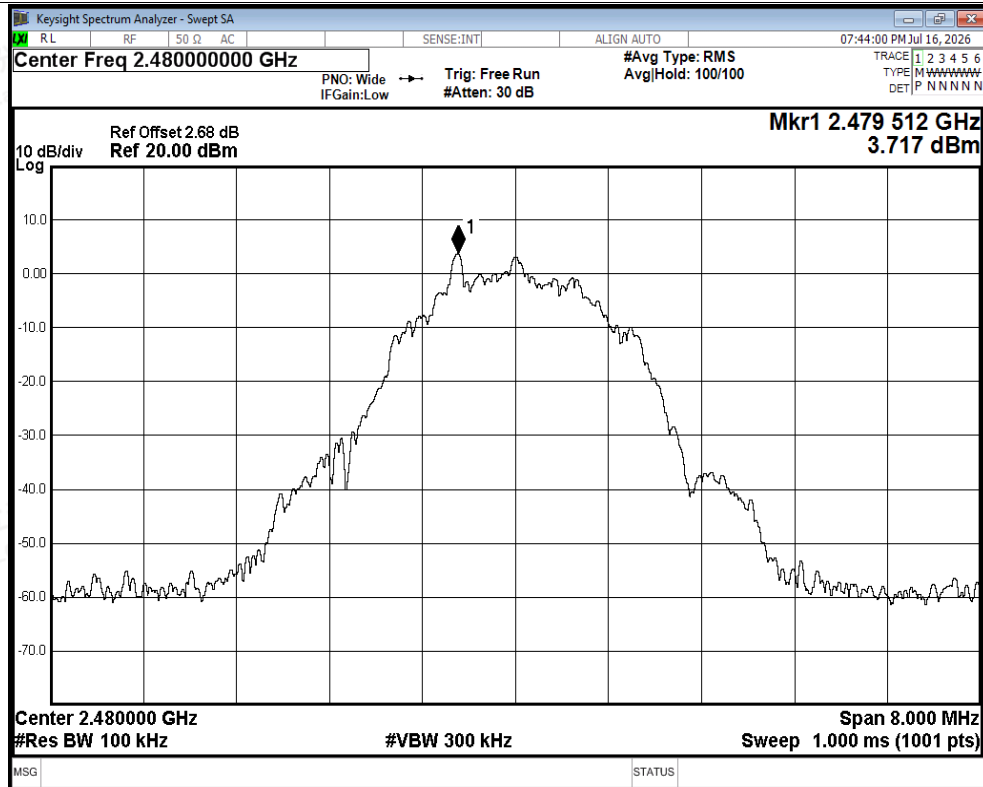
Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



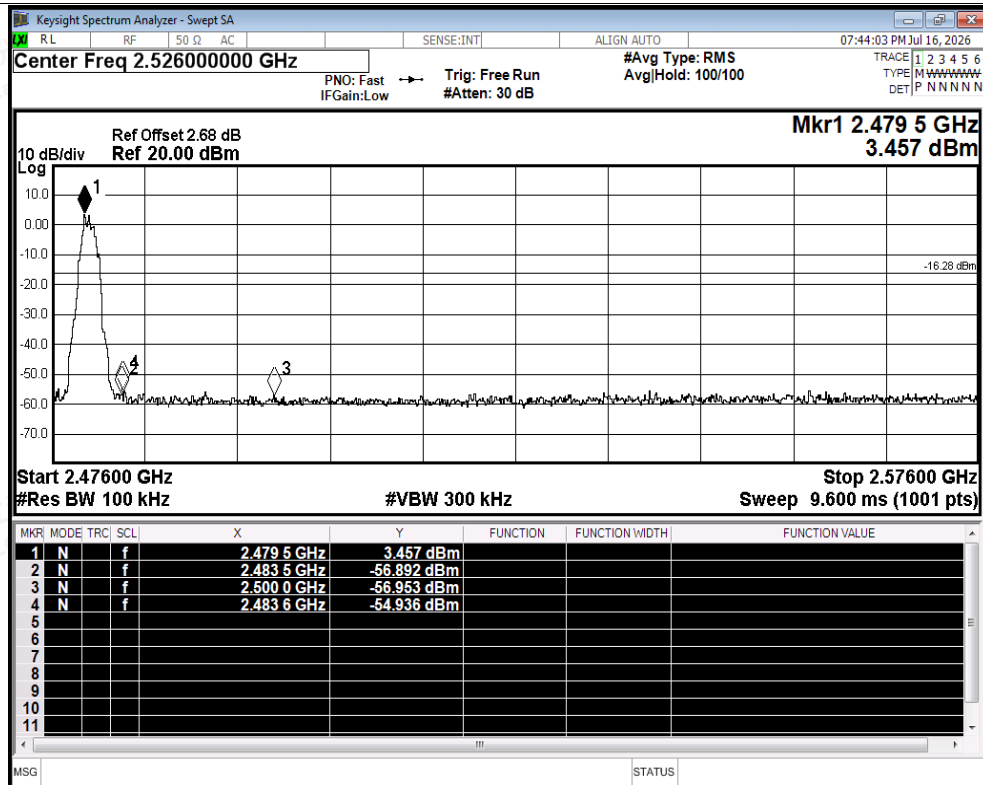
Band Edge NVNT BLE 2M 2402MHz Ant1 Ref



Band Edge NVNT BLE 2M 2402MHz Ant1 Emission



Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission



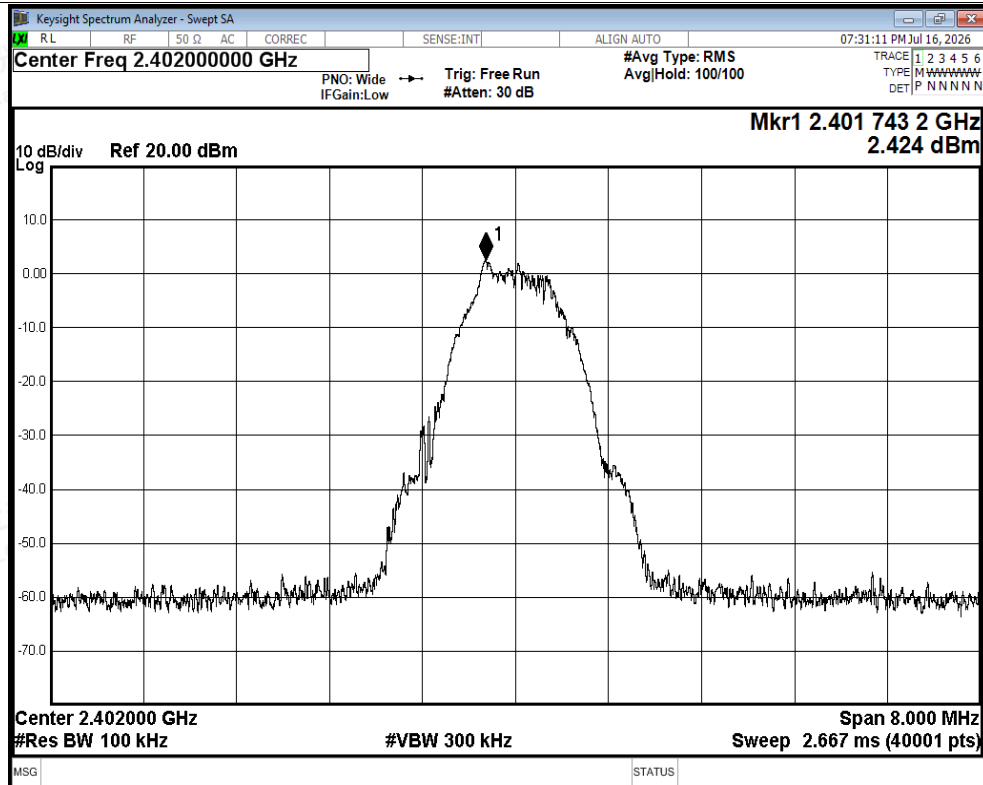
B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-39.95	-20	Pass
NVNT	BLE 1M	2440	Ant1	-42.43	-20	Pass
NVNT	BLE 1M	2480	Ant1	-41.93	-20	Pass
NVNT	BLE 2M	2402	Ant1	-47.47	-20	Pass
NVNT	BLE 2M	2440	Ant1	-50.79	-20	Pass
NVNT	BLE 2M	2480	Ant1	-48.34	-20	Pass

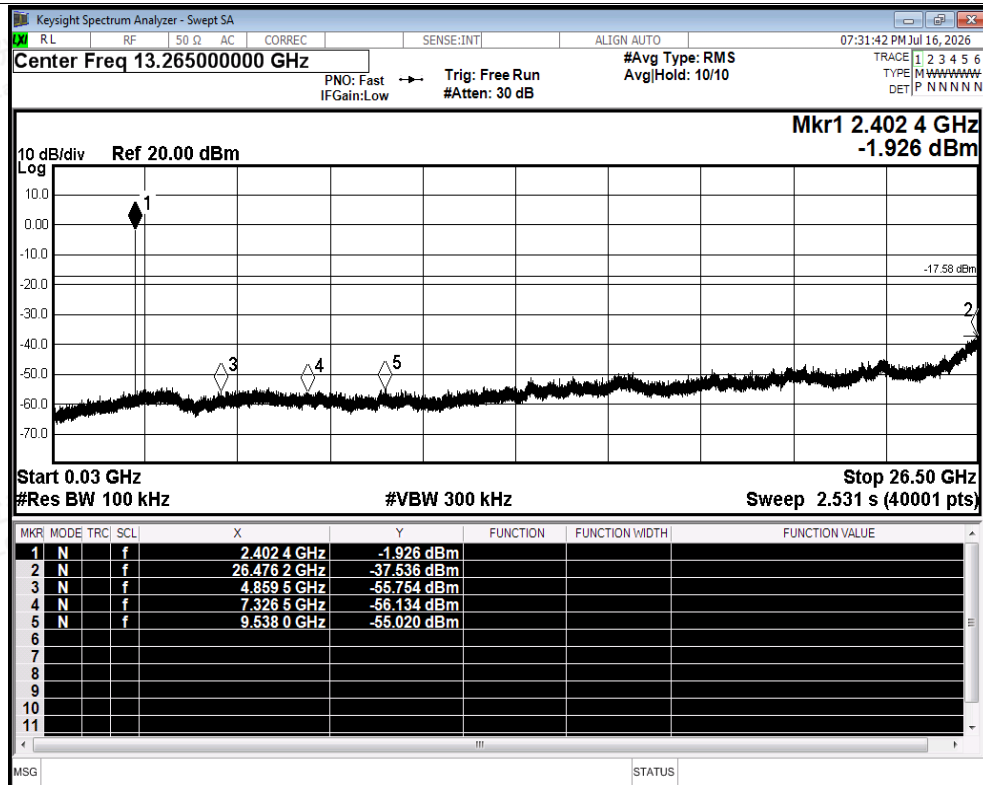
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

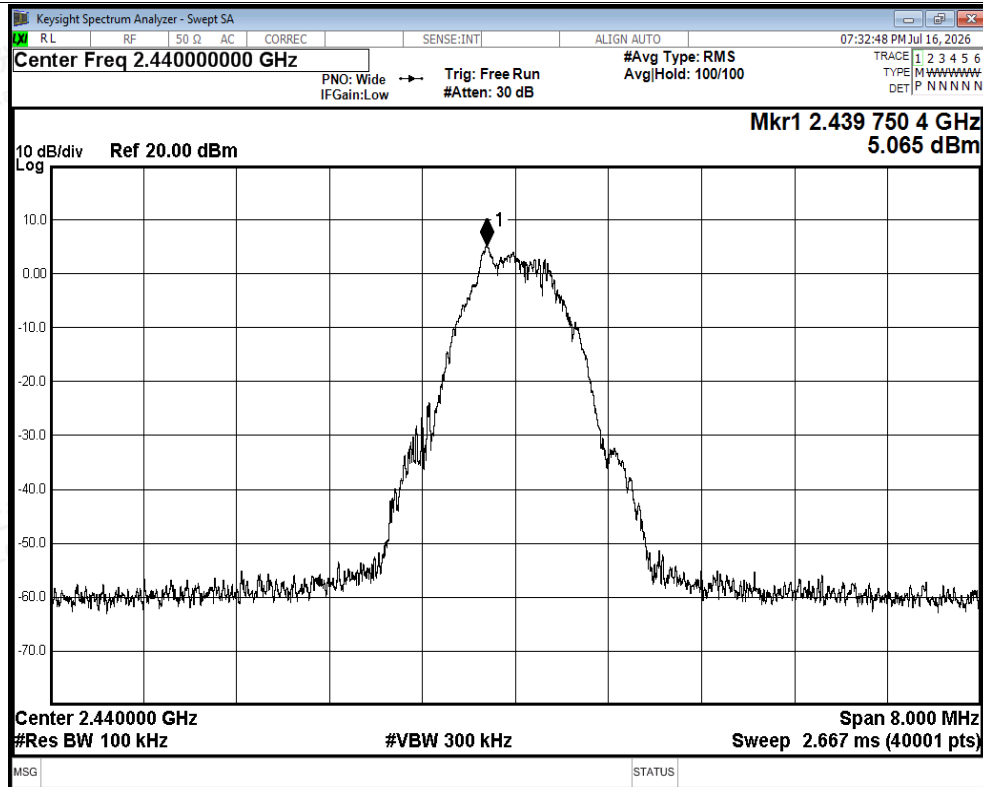


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

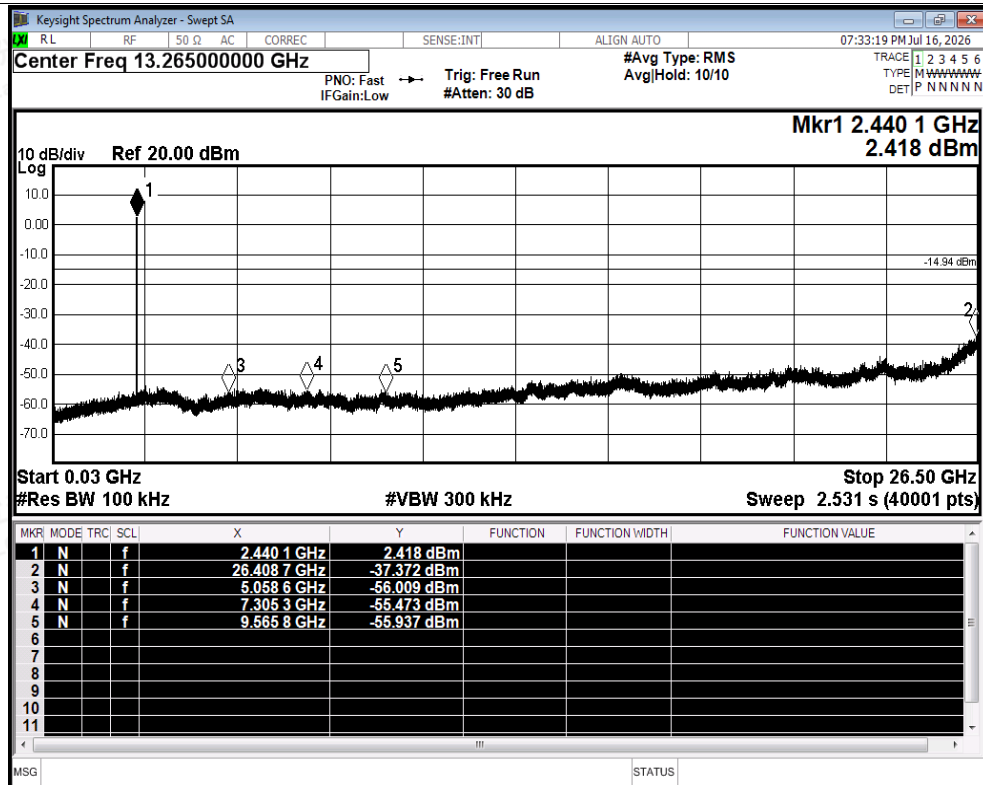
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

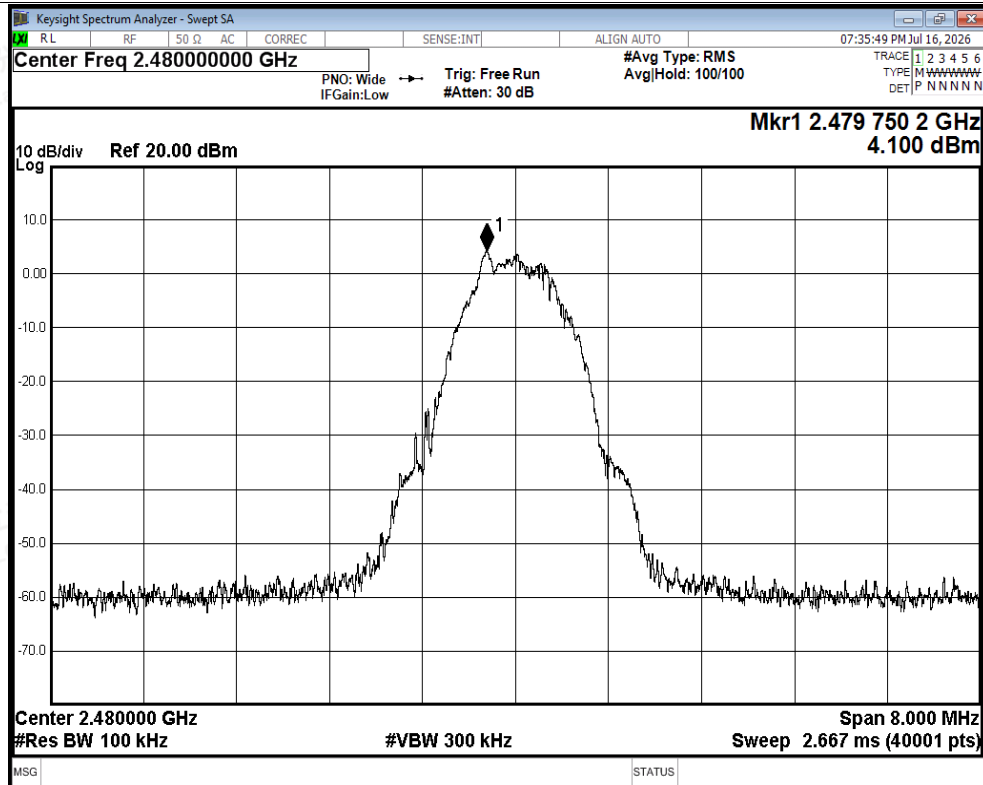
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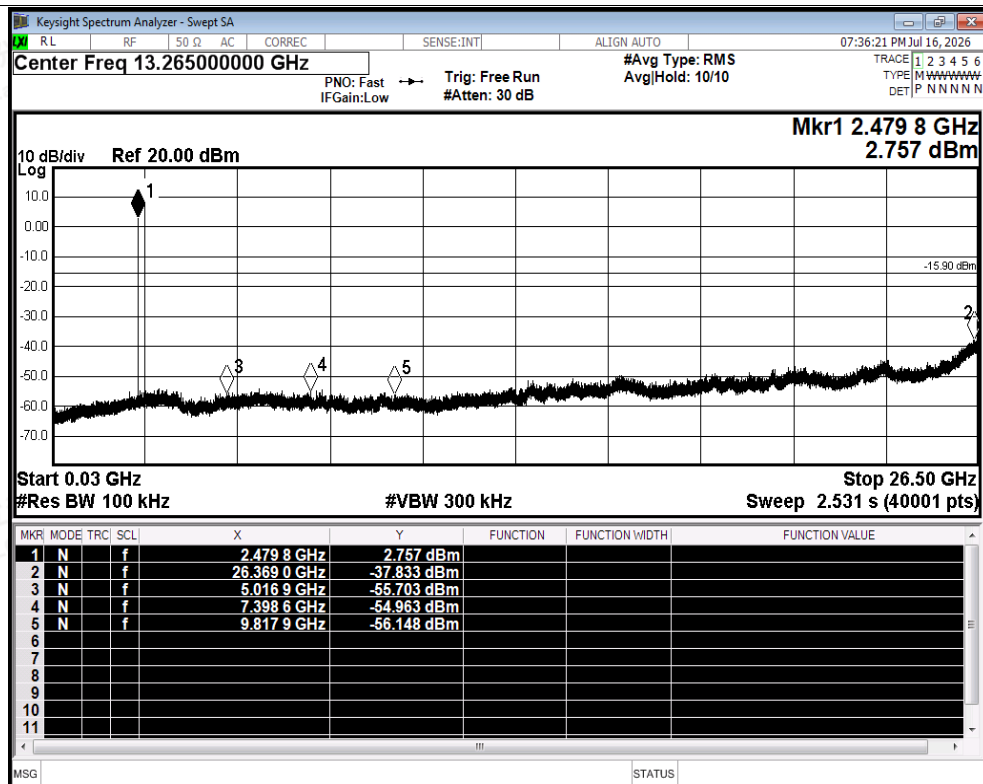
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



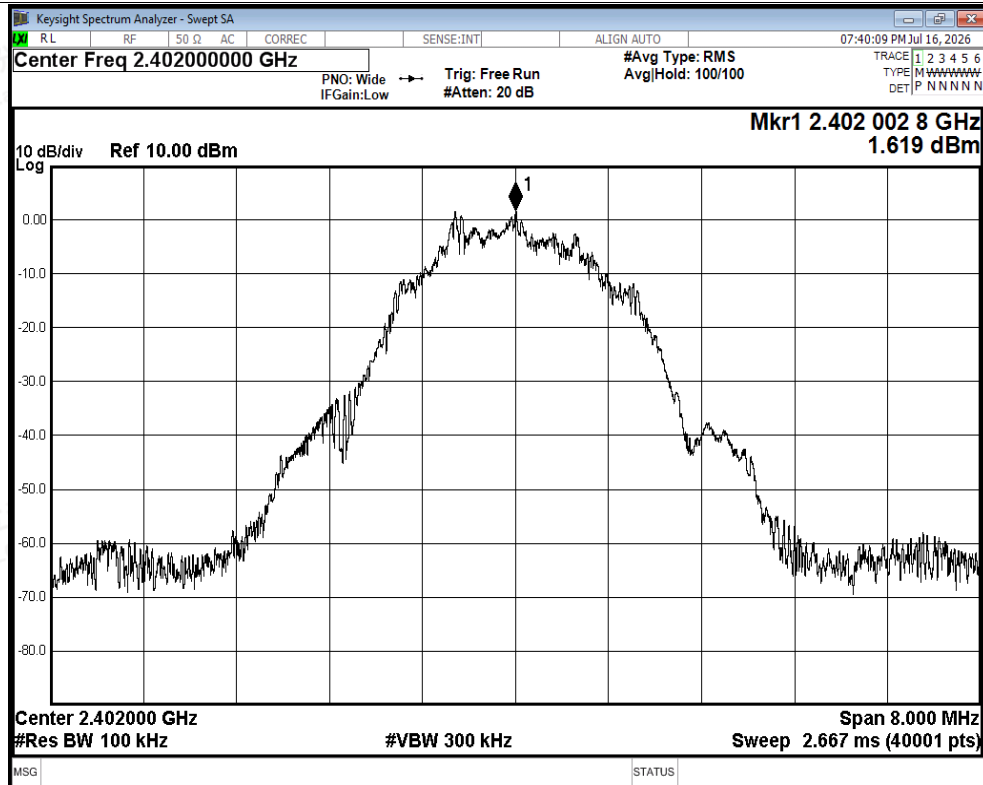
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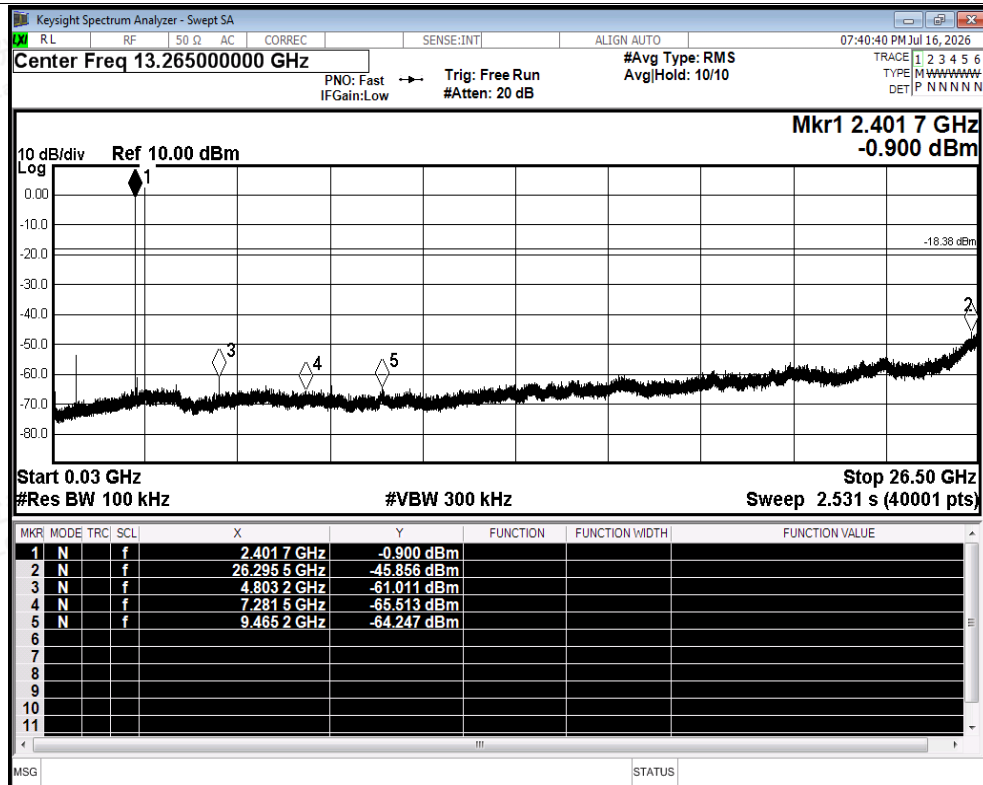
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref

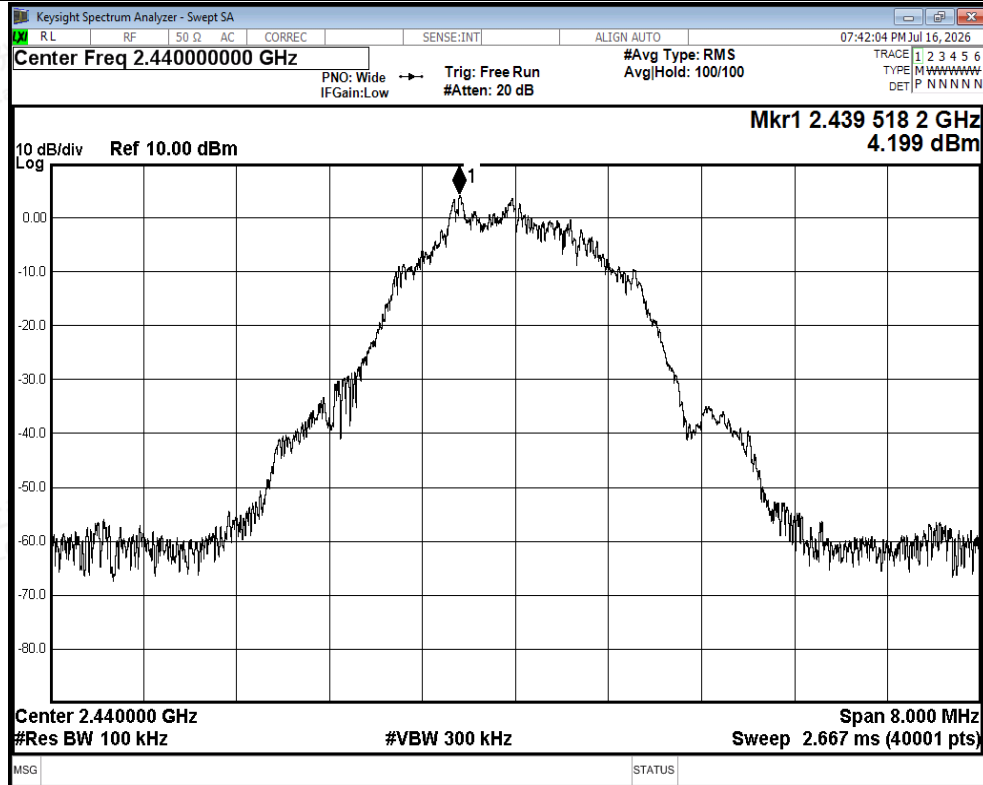


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission

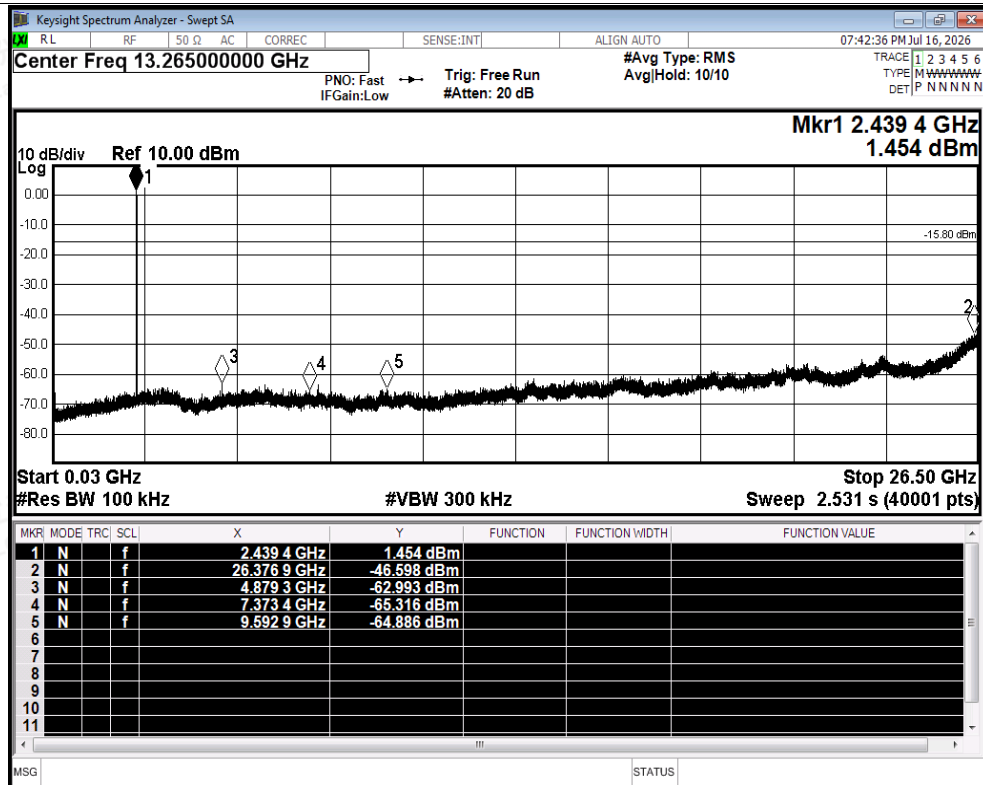
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Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

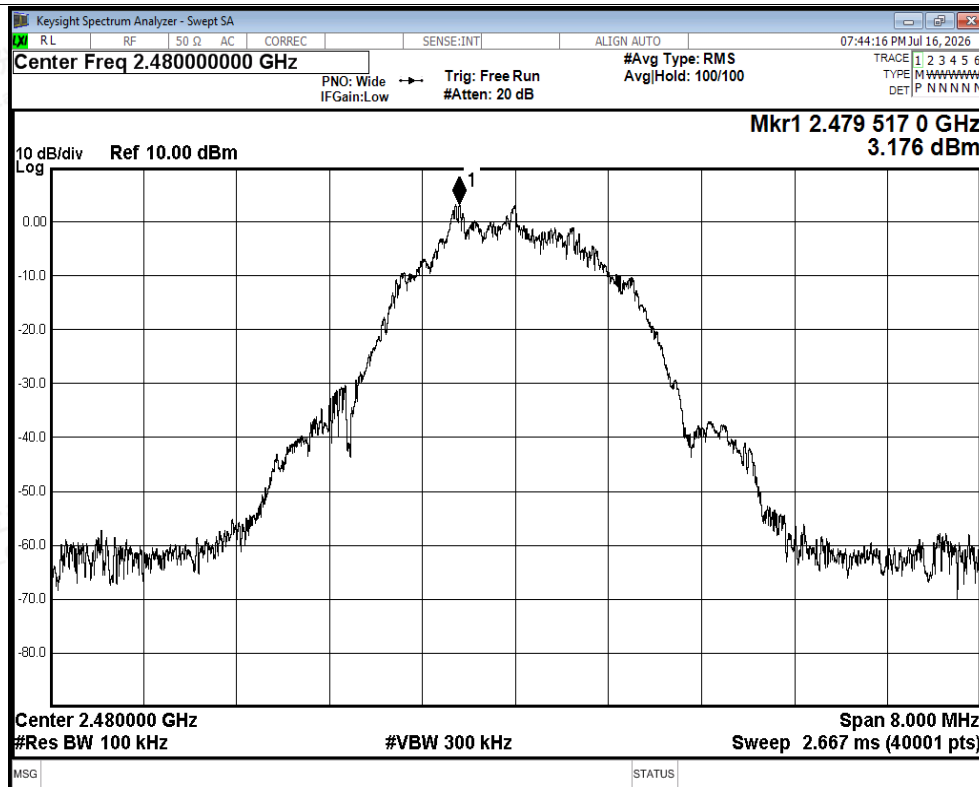
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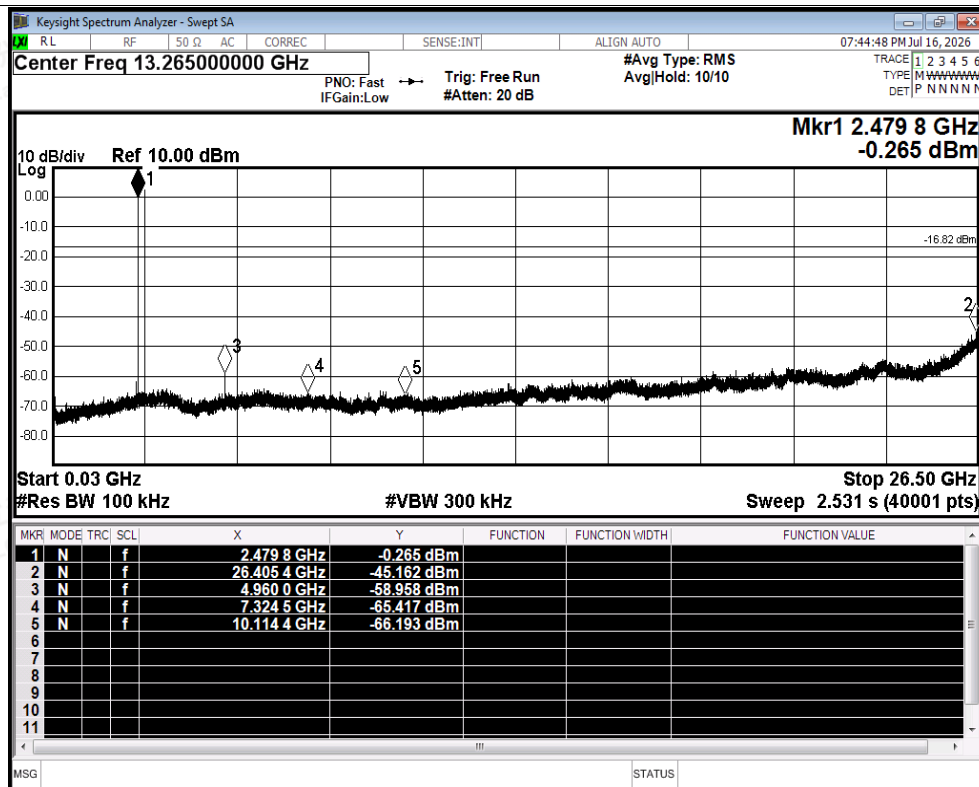
Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref

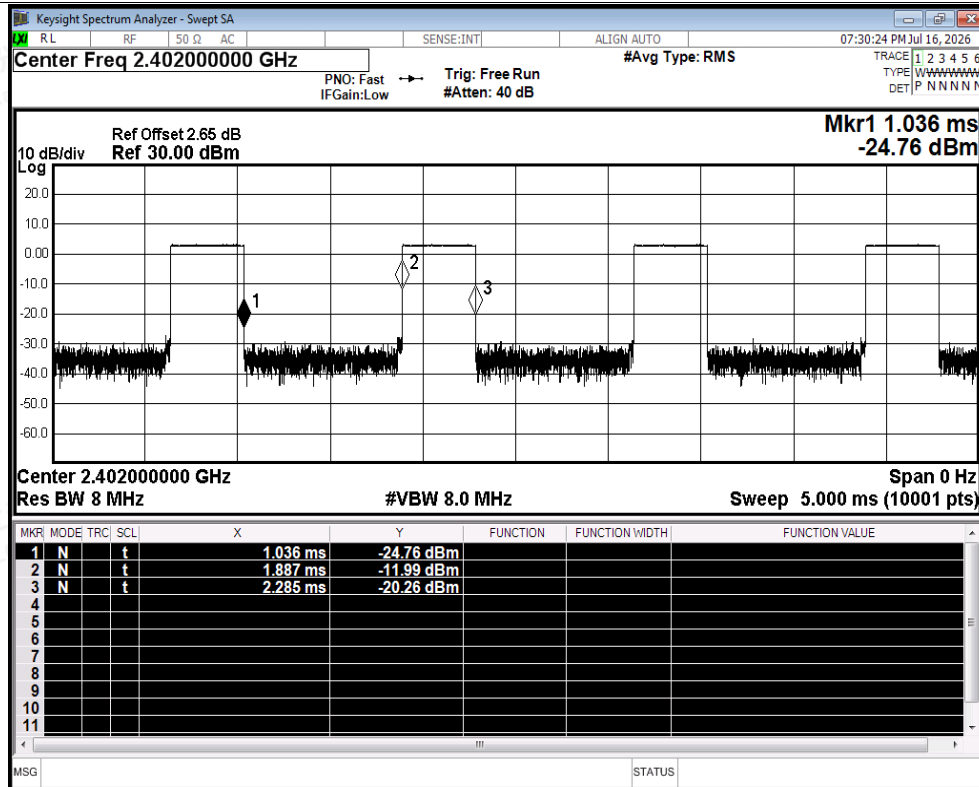


Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission

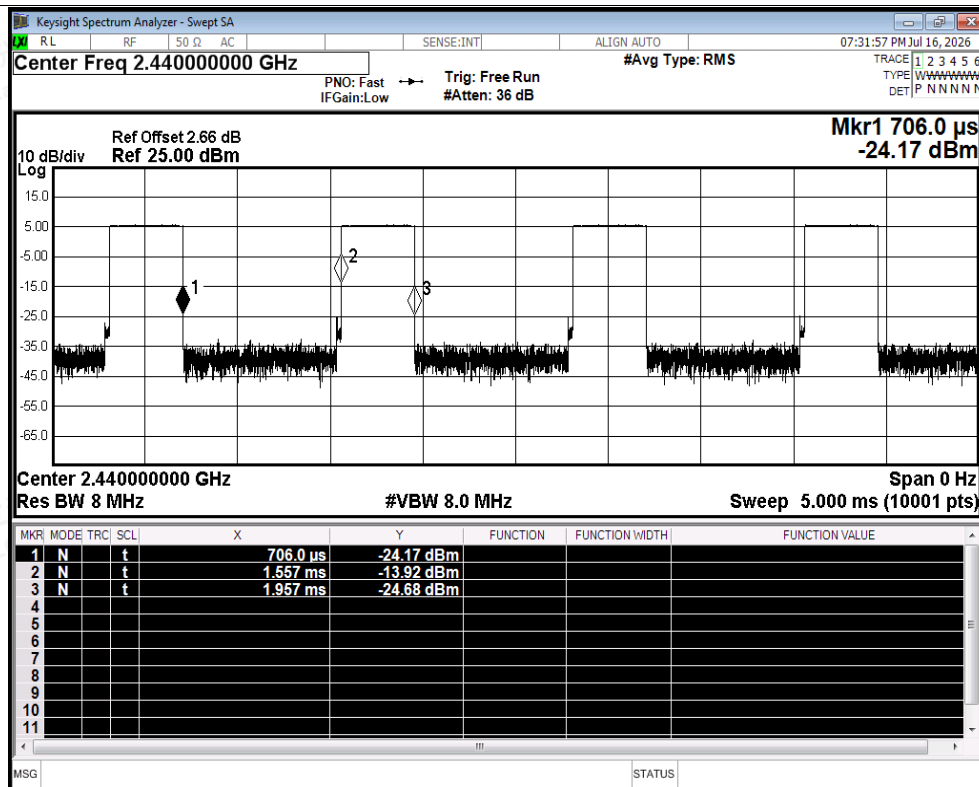


B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	31.89	4.96	2.51
NVNT	BLE 1M	2440	Ant1	31.95	4.96	2.5
NVNT	BLE 1M	2480	Ant1	31.92	4.96	2.51
NVNT	BLE 2M	2402	Ant1	32.61	4.87	4.9
NVNT	BLE 2M	2440	Ant1	32.64	4.86	4.9
NVNT	BLE 2M	2480	Ant1	32.56	4.87	4.91



Duty Cycle NVNT BLE 1M 2402MHz Ant1

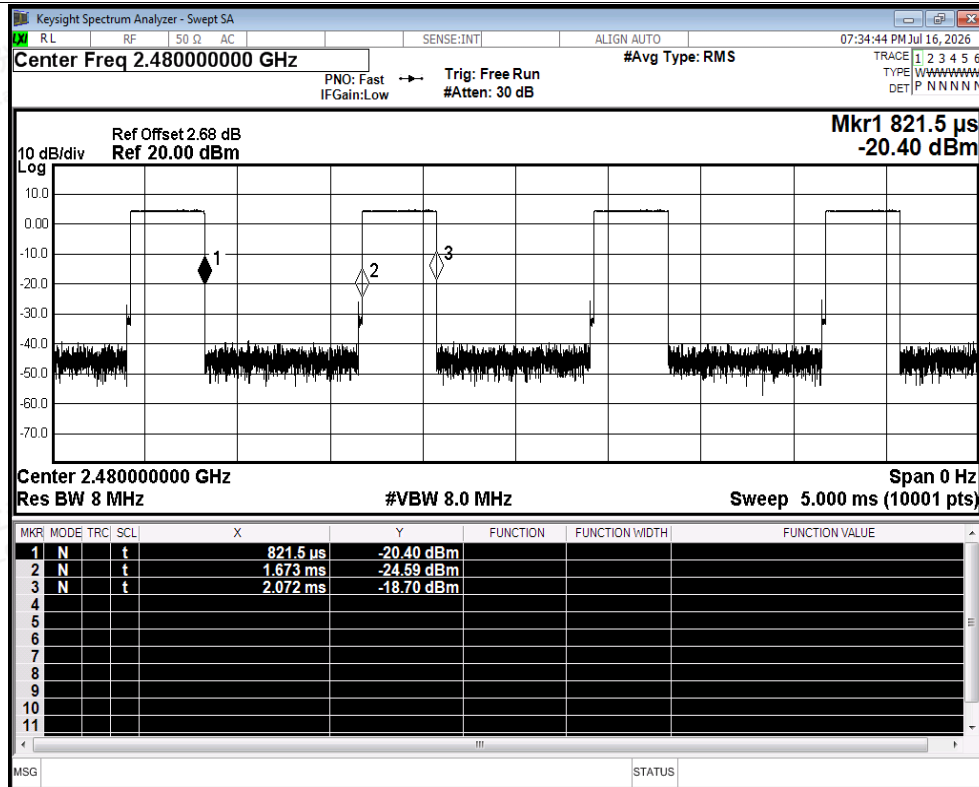


Duty Cycle NVNT BLE 1M 2440MHz Ant1

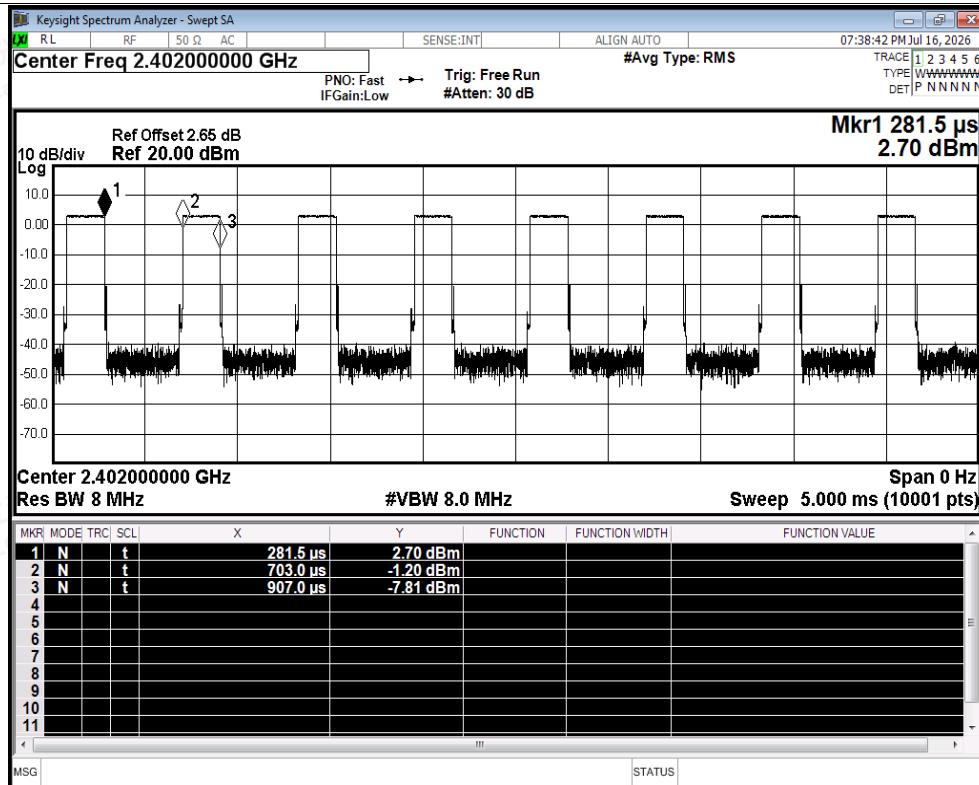
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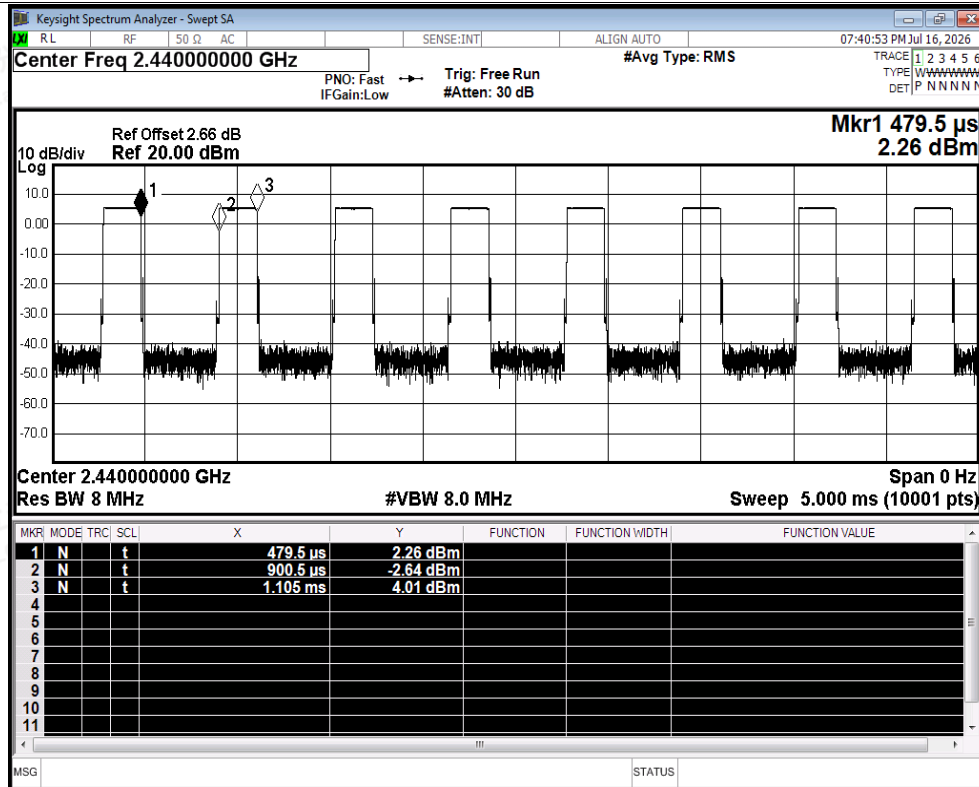
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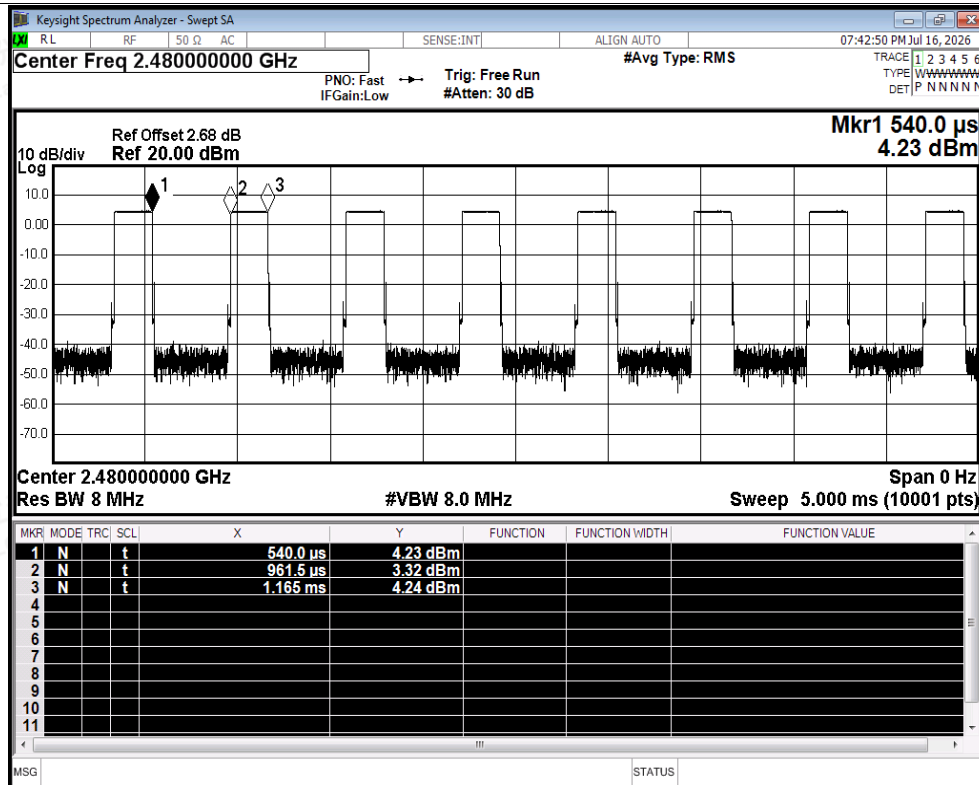
Duty Cycle NVNT BLE 1M 2480MHz Ant1



Duty Cycle NVNT BLE 2M 2402MHz Ant1



Duty Cycle NVNT BLE 2M 2440MHz Ant1



Duty Cycle NVNT BLE 2M 2480MHz Ant1

Shenzhen LCS Compliance Testing Laboratory Ltd.

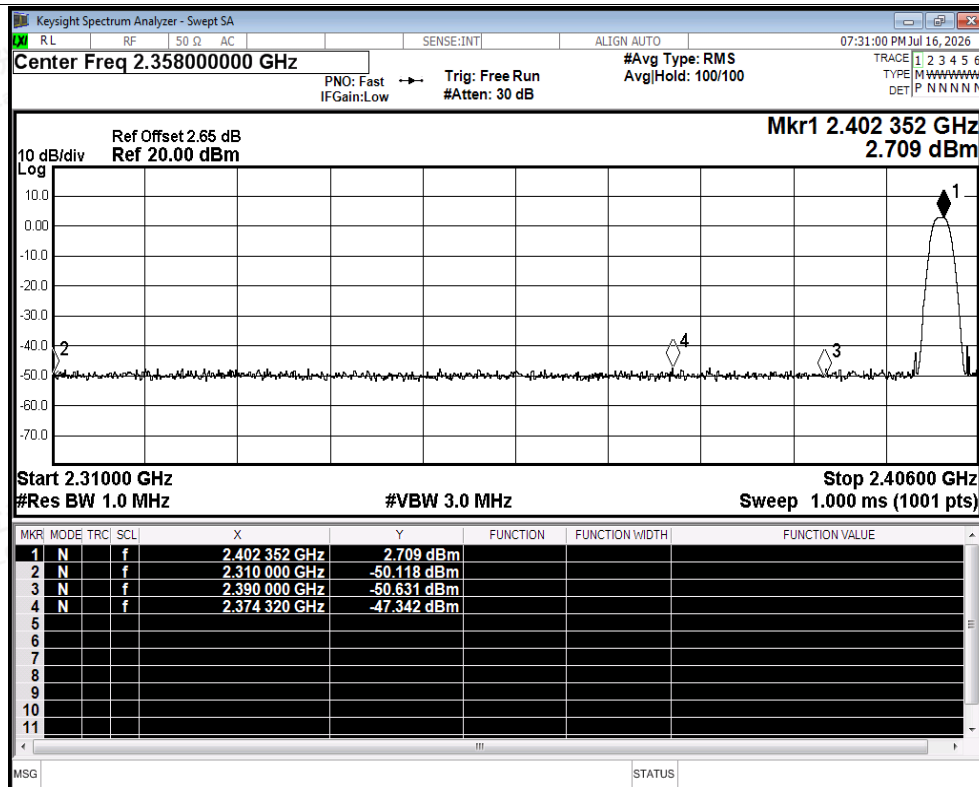
Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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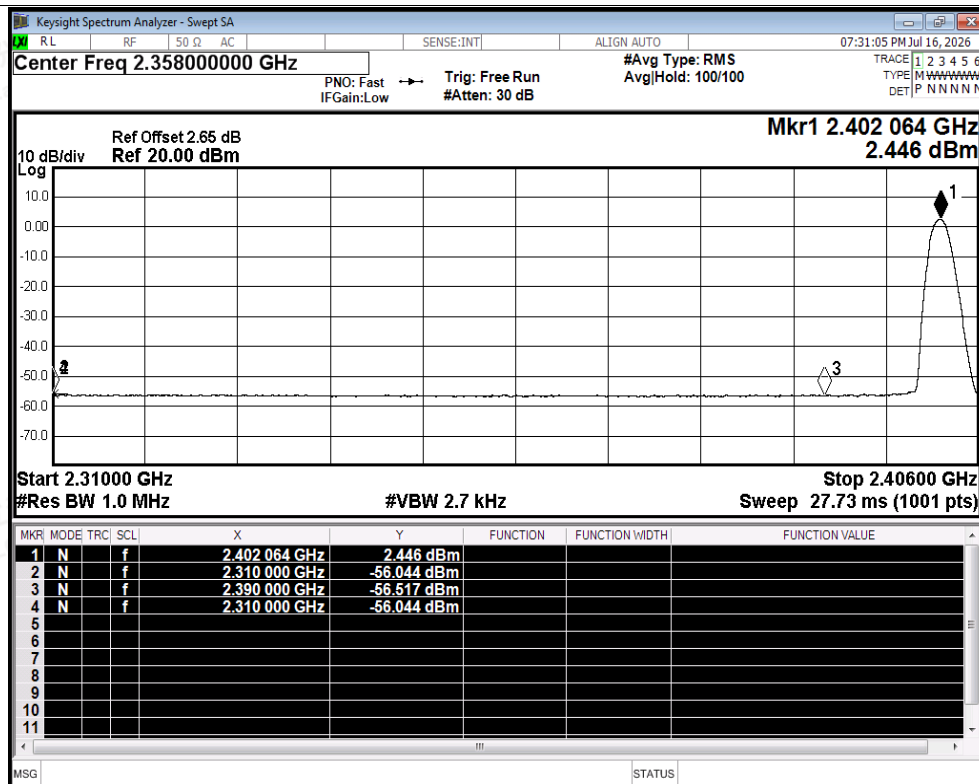


B.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-50.11	2.19	47.34	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-56.04	2.19	41.41	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2374.32	-47.34	2.19	50.11	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-56.04	2.19	41.41	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-49.35	2.19	48.10	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-56.61	2.19	40.84	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-50.22	2.19	47.23	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-52.71	2.19	44.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2485.576	-40.27	2.19	57.18	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-52.71	2.19	44.74	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-50.23	2.19	47.22	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-56.4	2.19	41.05	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-50.34	2.19	47.11	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-56.4	2.19	41.05	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2322.384	-47.1	2.19	50.35	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2319.696	-55.58	2.19	41.87	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-49.11	2.19	48.34	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-56.47	2.19	40.98	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.43	2.19	48.02	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-49.33	2.19	48.12	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2486.416	-40.42	2.19	57.03	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-49.33	2.19	48.12	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-49.12	2.19	48.33	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-56.3	2.19	41.15	Average	54	Pass



Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

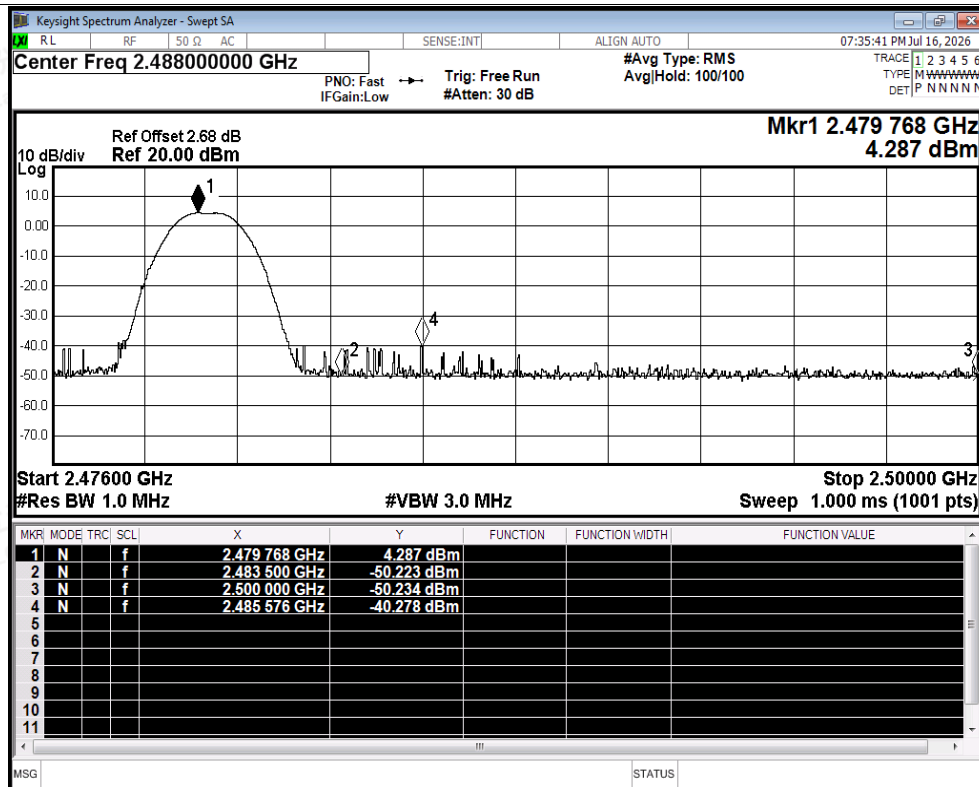


Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

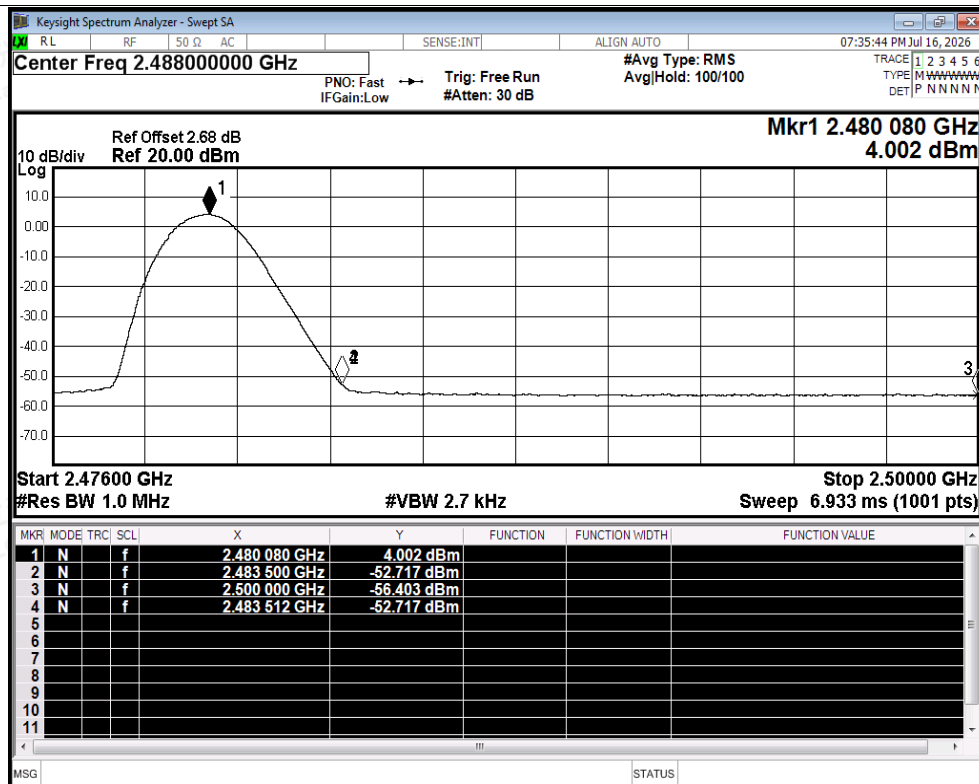
Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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



Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak

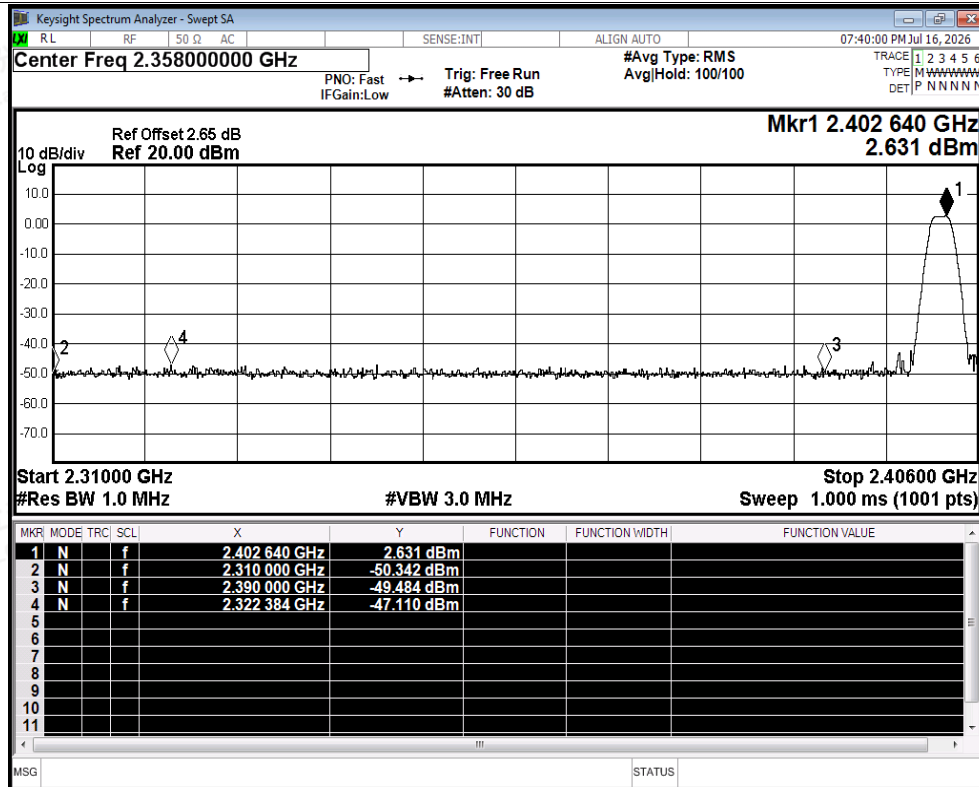


Restrict Band NVNT BLE 1M 2480MHz Ant1 Average

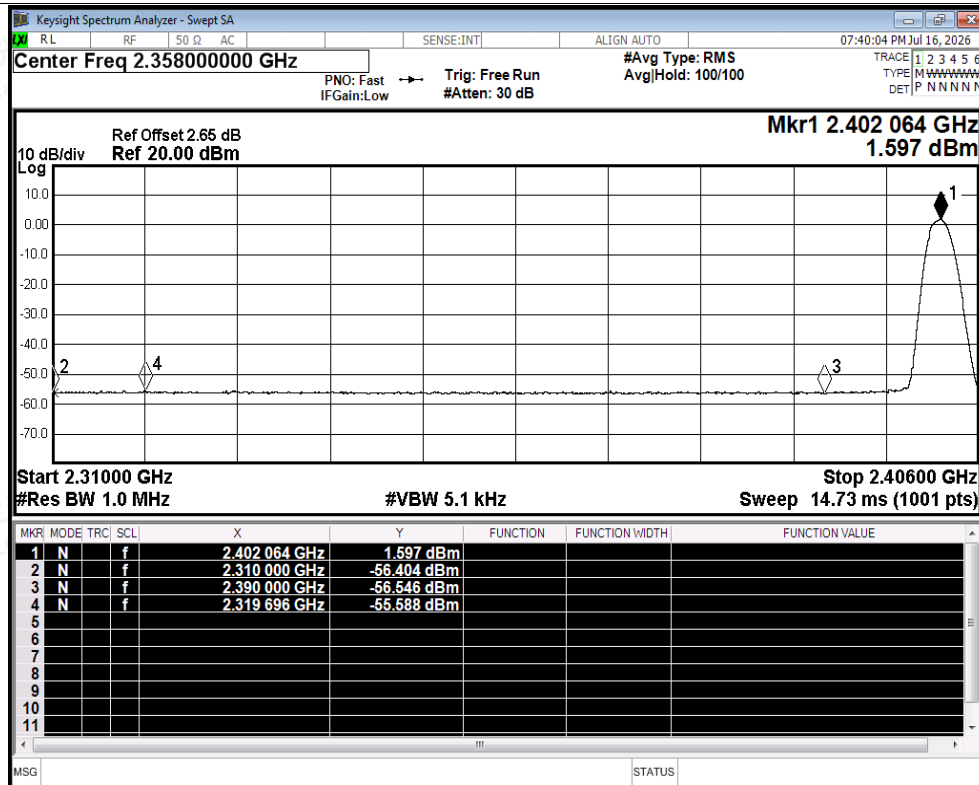
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Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

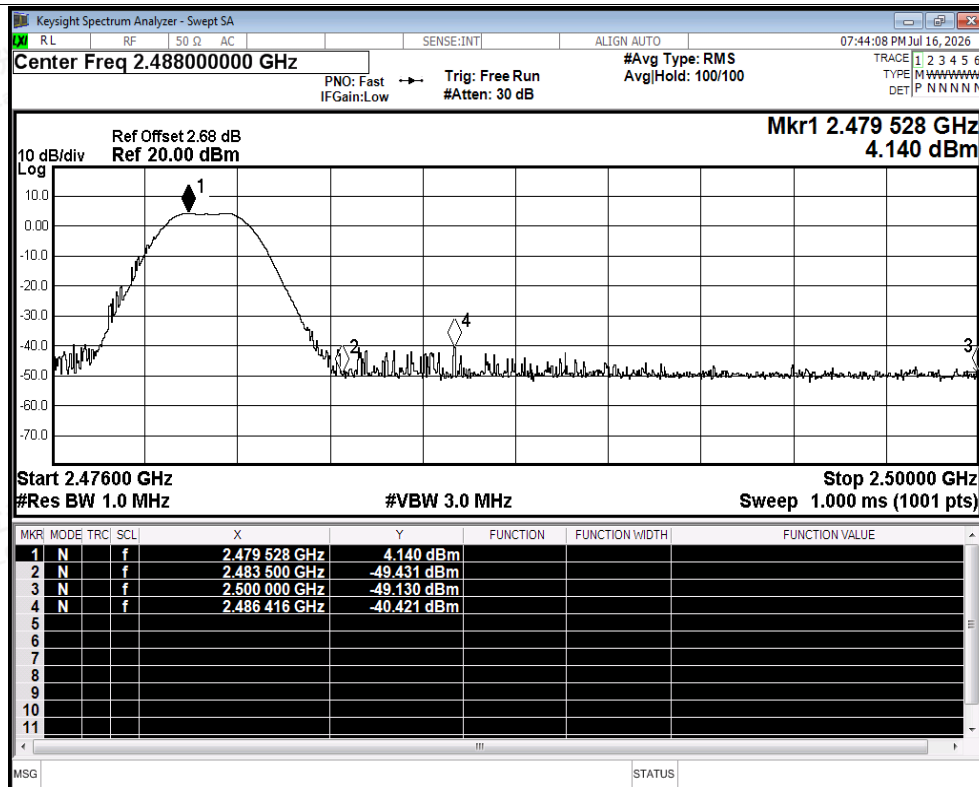


Restrict Band NVNT BLE 2M 2402MHz Ant1 Average

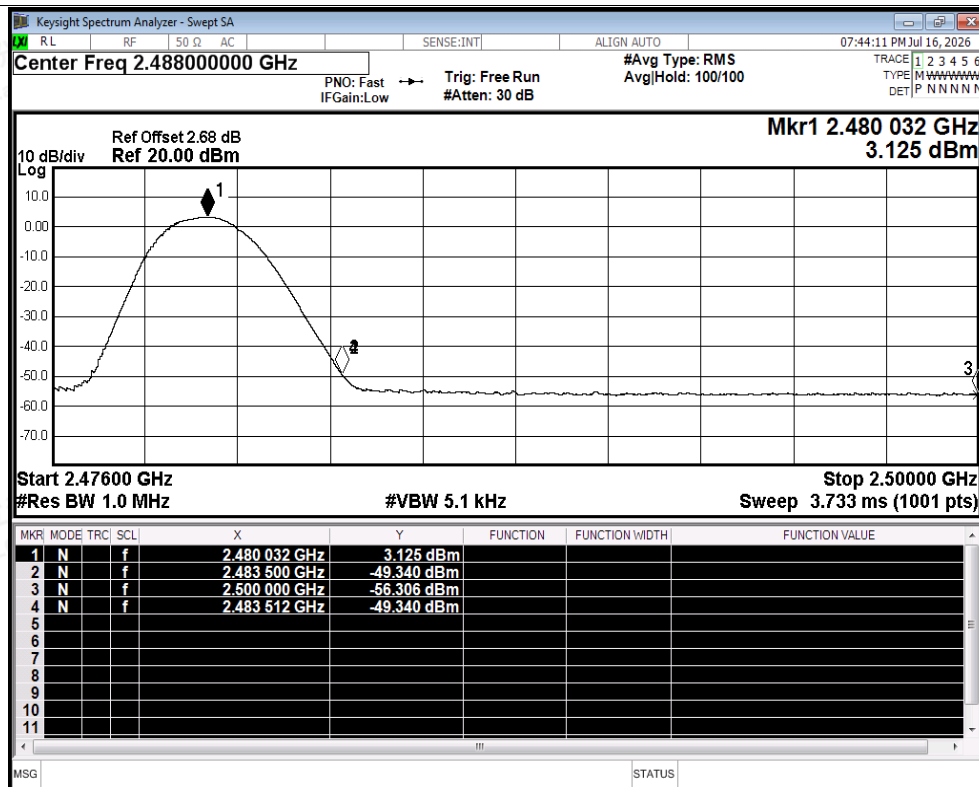
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Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

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