



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Display screen

Test Model: eFlat

Environmental Conditions

Temperature:	24.2°C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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B.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.079	0.5	Pass
NVNT	b	2437	Ant1	9.099	0.5	Pass
NVNT	b	2462	Ant1	9.101	0.5	Pass
NVNT	g	2412	Ant1	16.26	0.5	Pass
NVNT	g	2437	Ant1	16.37	0.5	Pass
NVNT	g	2462	Ant1	16.35	0.5	Pass

Note :offset=System attenuation +cabal loss

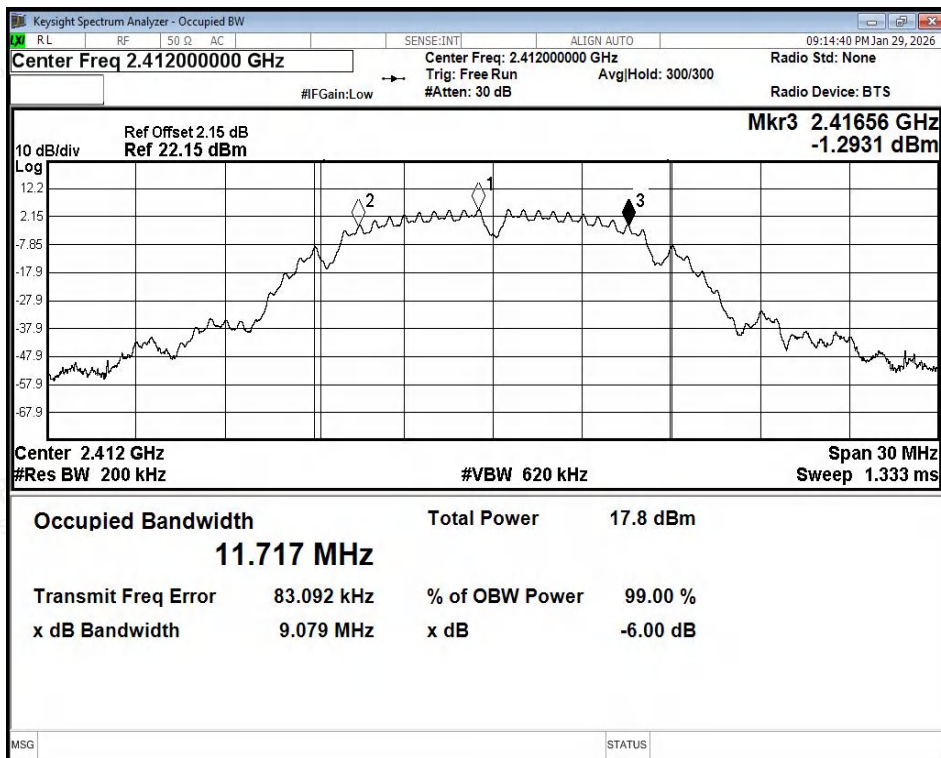


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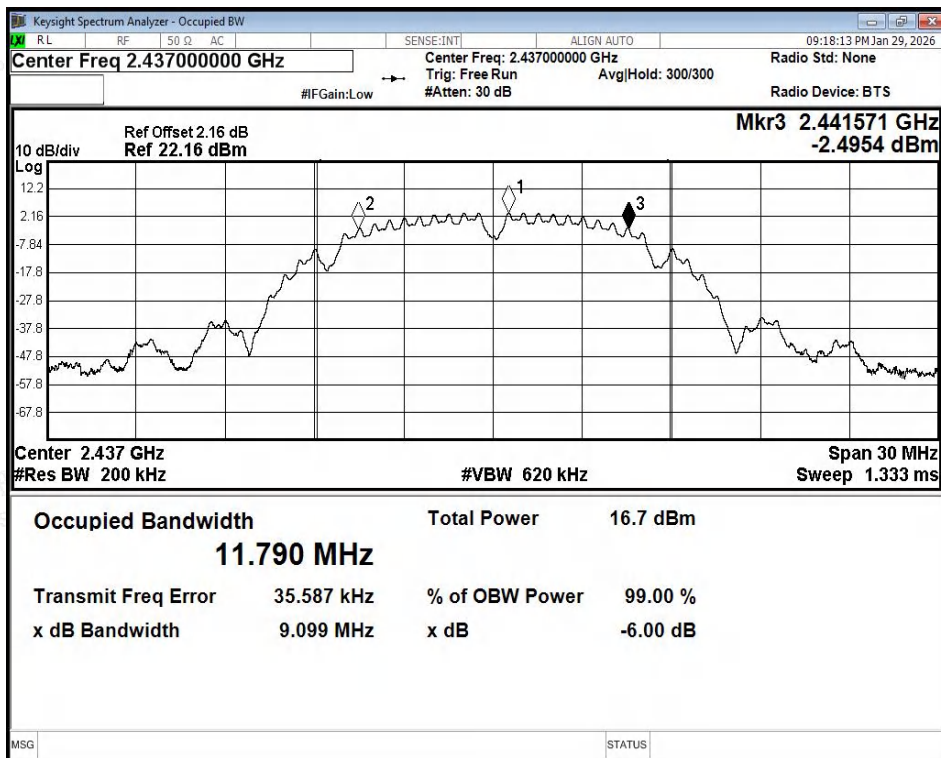
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-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1

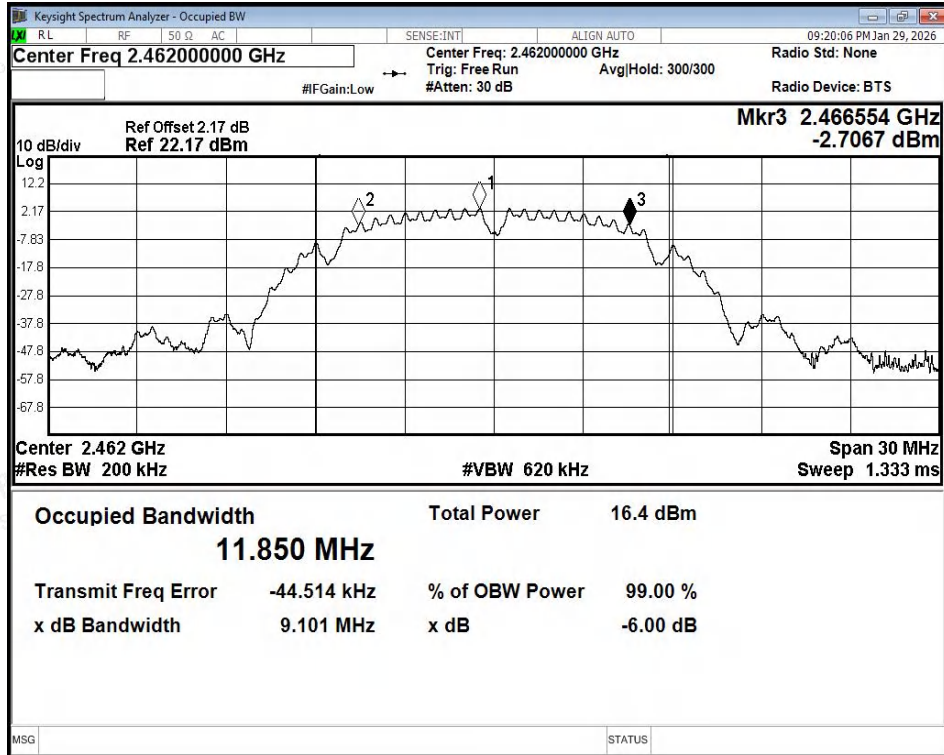


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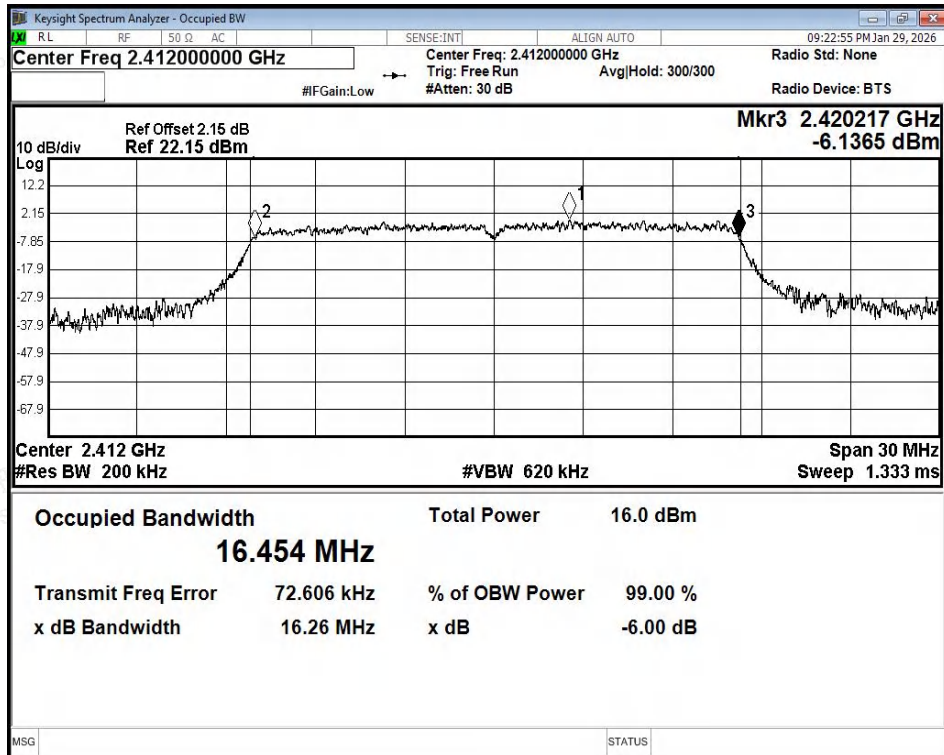
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

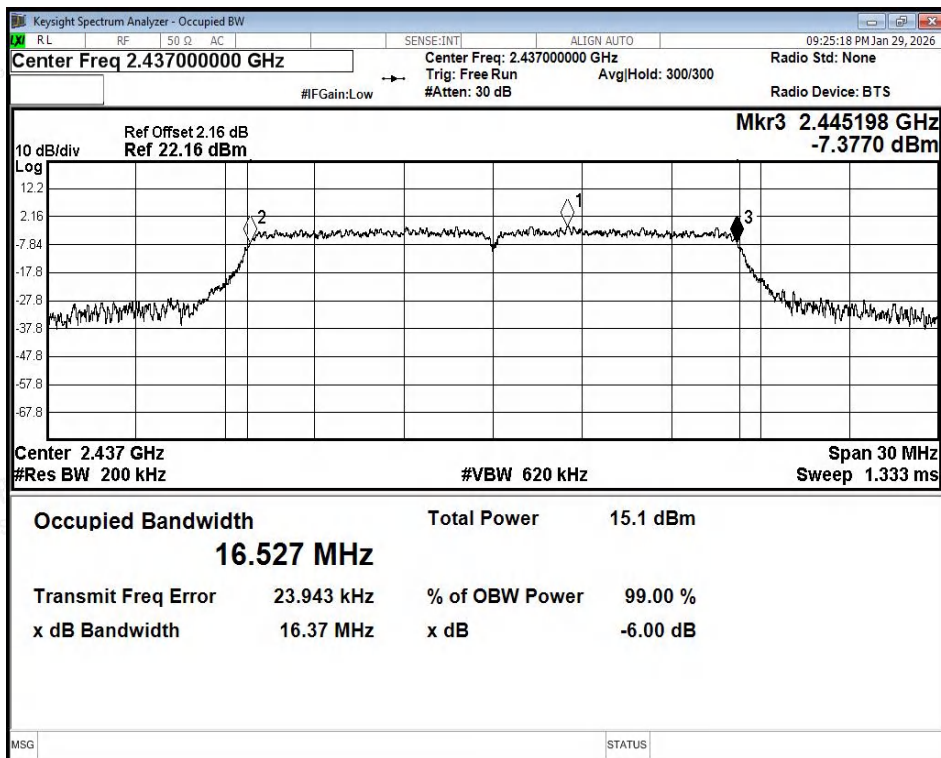


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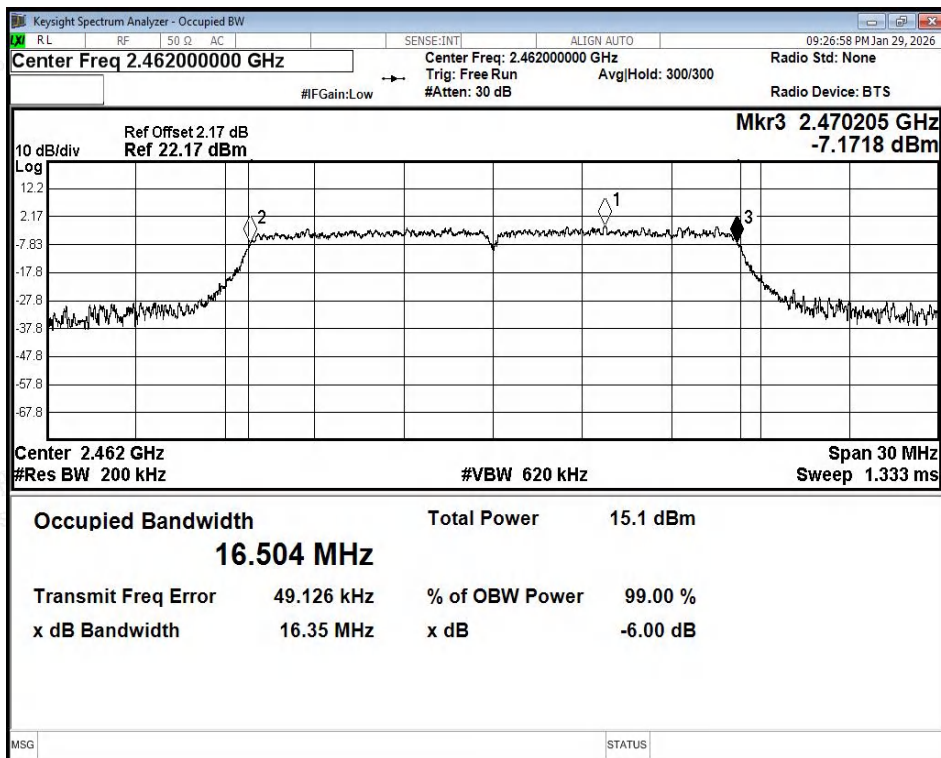
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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B.2 Maximum Average Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Maximum Average	Limit Conducted(dBm)	Verdict
NVNT	b	2412	Ant1	12.85	0.05	12.90	30	Pass
NVNT	b	2437	Ant1	11.77	0.04	11.81	30	Pass
NVNT	b	2462	Ant1	11.49	0.04	11.53	30	Pass
NVNT	g	2412	Ant1	9.80	0.1	9.90	30	Pass
NVNT	g	2437	Ant1	8.88	0.1	8.98	30	Pass
NVNT	g	2462	Ant1	8.90	0.1	9.00	30	Pass

Note :offset=System attenuation +cabal loss



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B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/30kHz)	Duty Factor (dB)	Total PSD (dBm/30kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-18.77	0.05	-18.72	8	Pass
NVNT	b	2437	Ant1	-19.97	0.04	-19.93	8	Pass
NVNT	b	2462	Ant1	-20.43	0.04	-20.39	8	Pass
NVNT	g	2412	Ant1	-24.24	0.1	-24.14	8	Pass
NVNT	g	2437	Ant1	-25.33	0.1	-25.23	8	Pass
NVNT	g	2462	Ant1	-25.5	0.1	-25.4	8	Pass

Note :offset=System attenuation +cabel loss

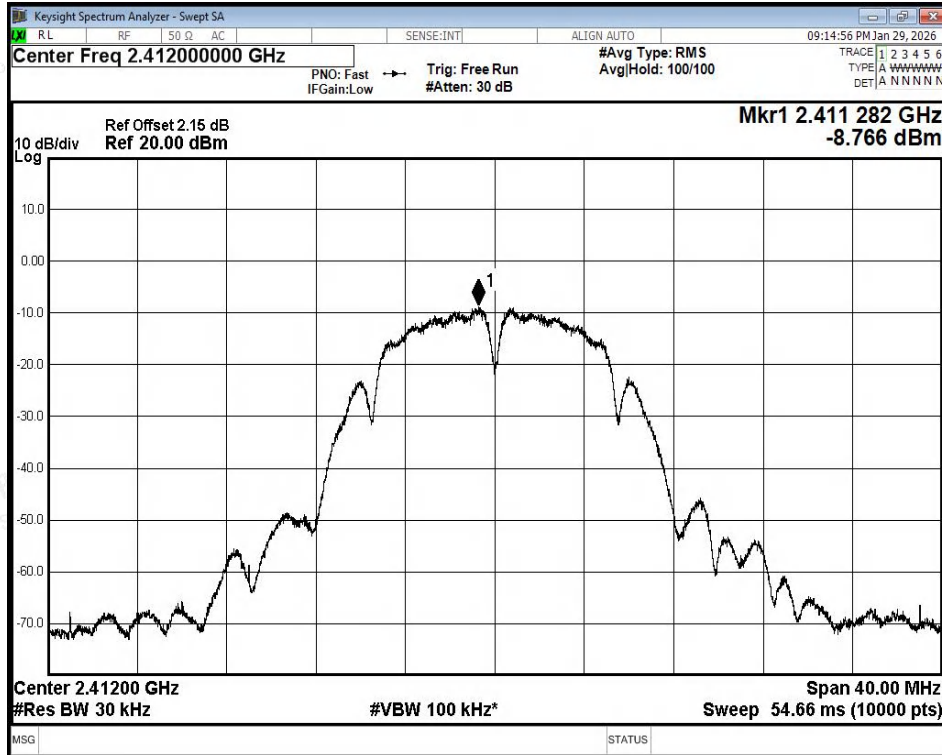


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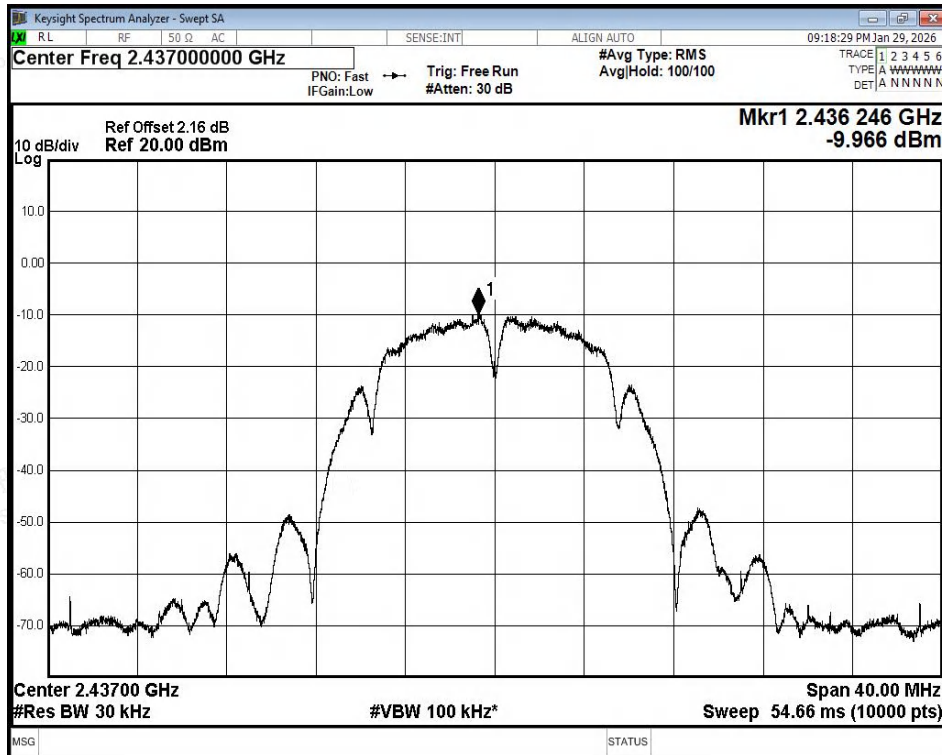
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PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1

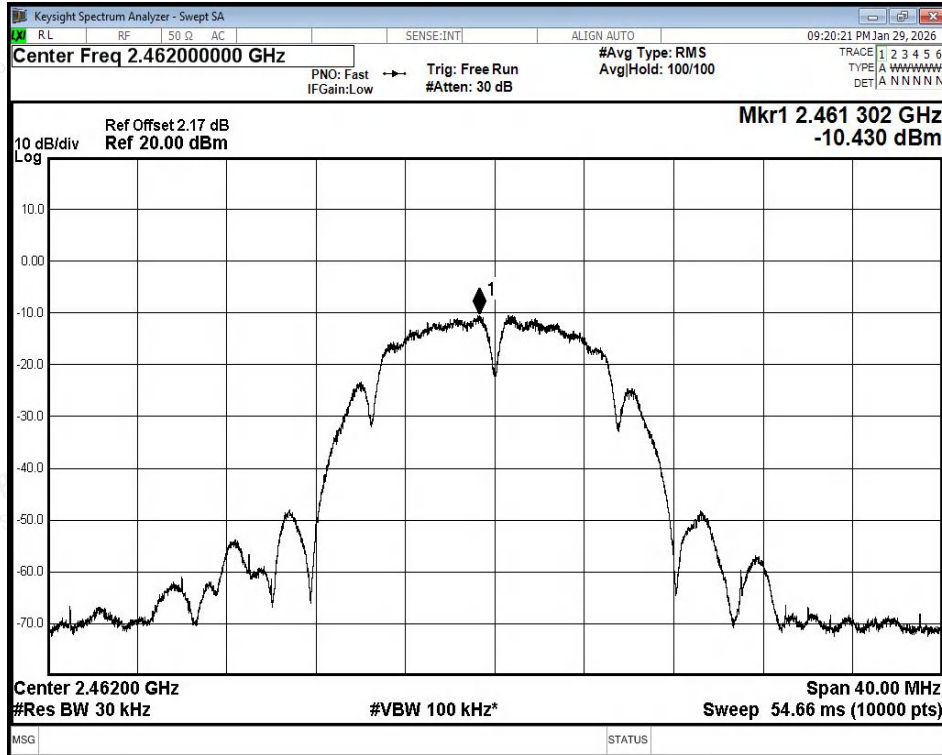


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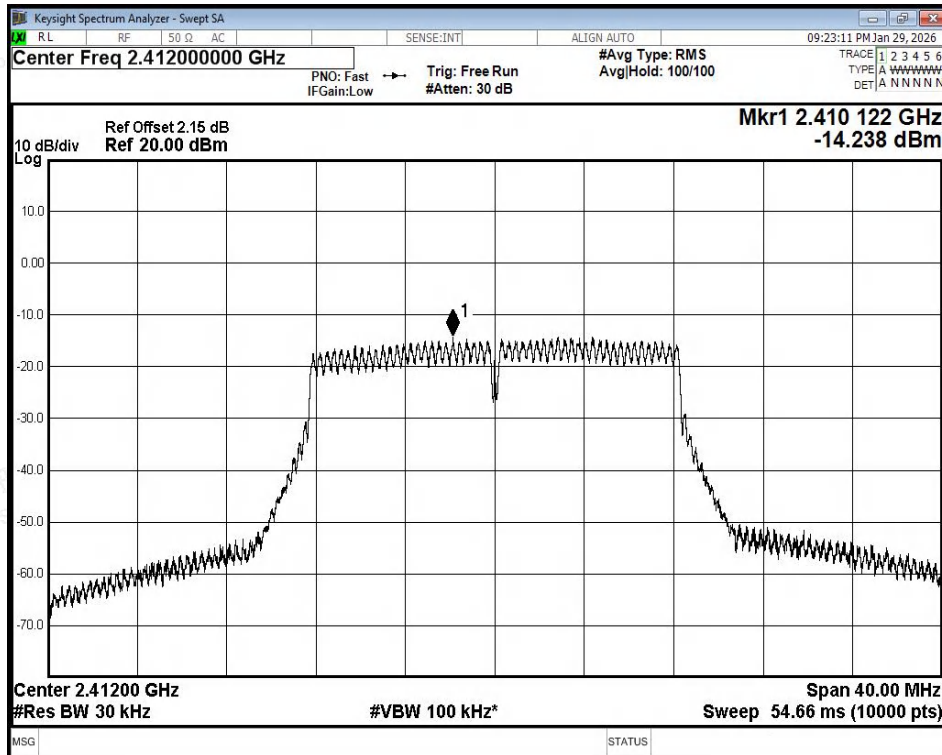
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1

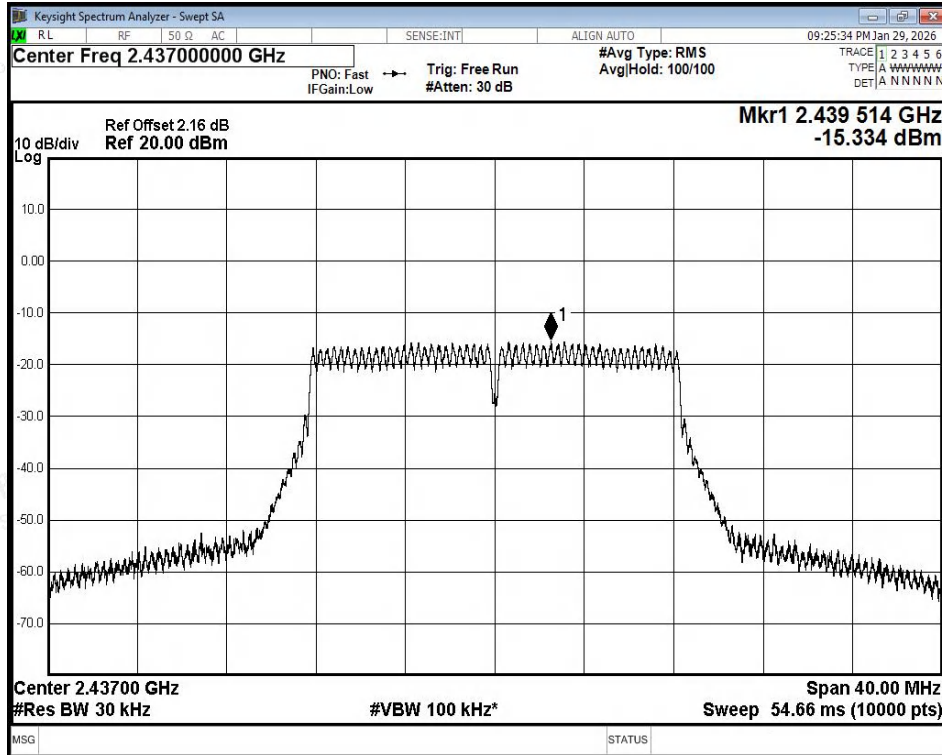


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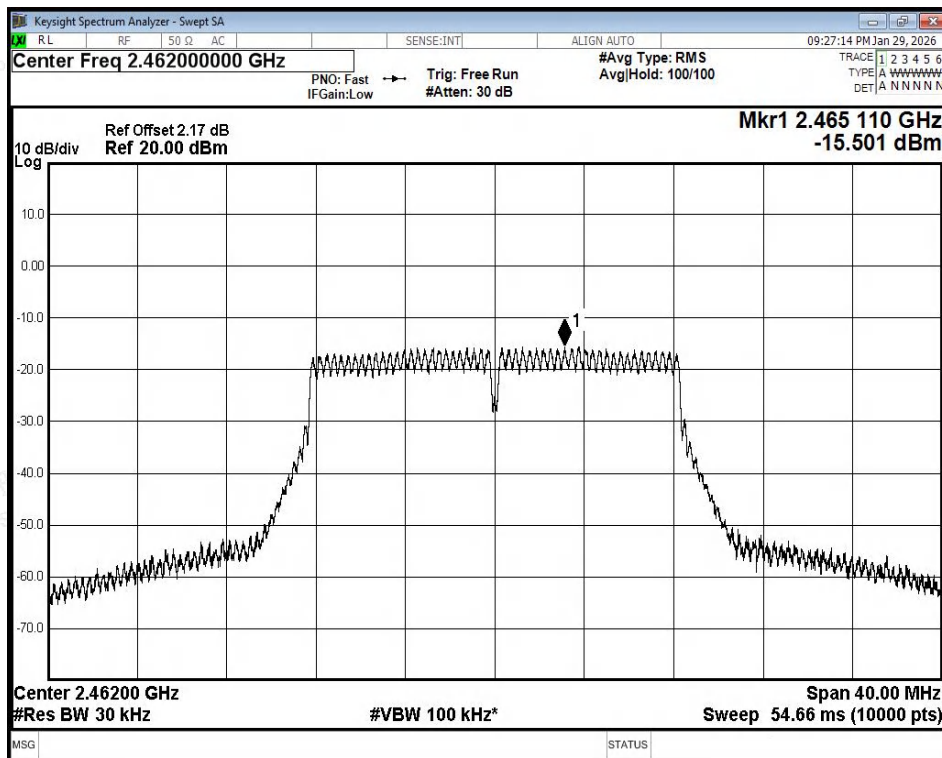
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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B.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.88	-30	Pass
NVNT	b	2462	Ant1	-58.48	-30	Pass
NVNT	g	2412	Ant1	-30.13	-30	Pass
NVNT	g	2462	Ant1	-42.26	-30	Pass

Note :offset=System attenuation +cabal loss

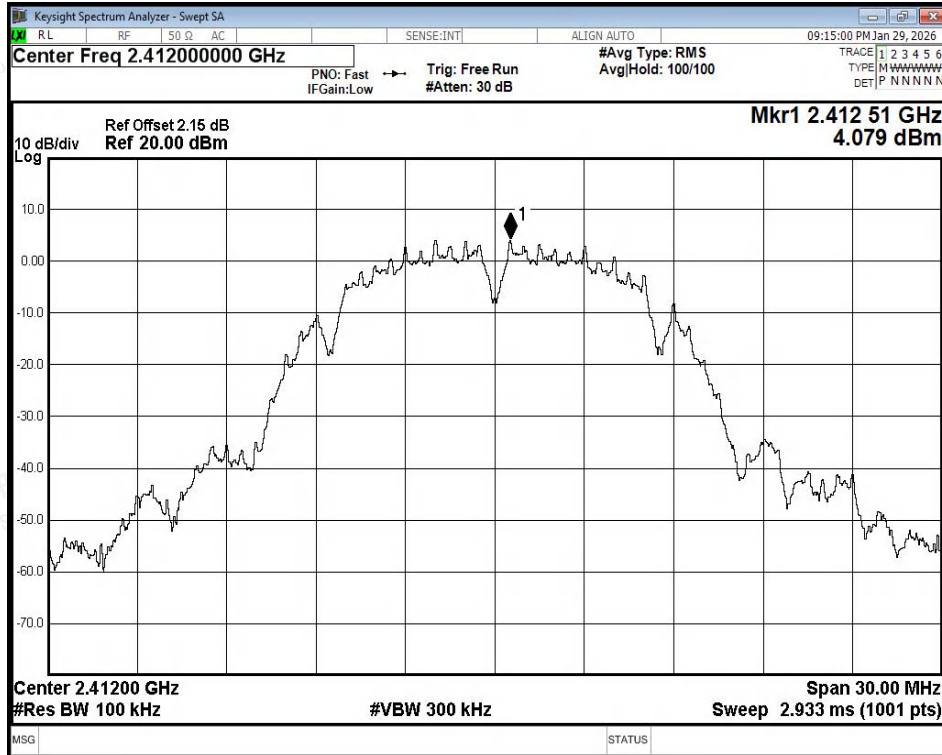


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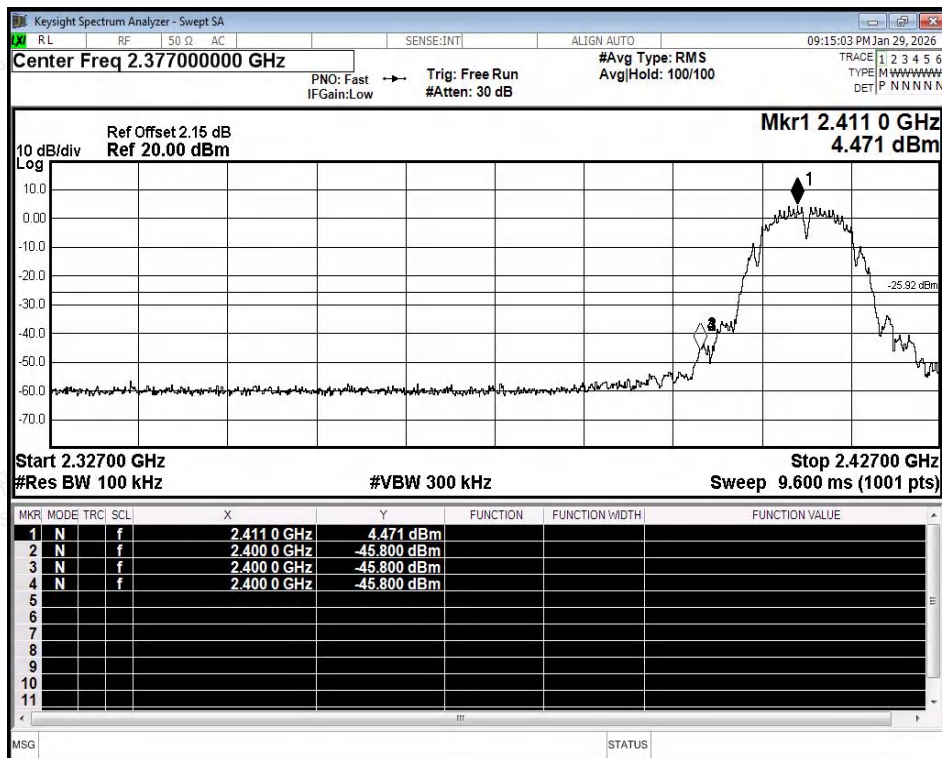
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Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

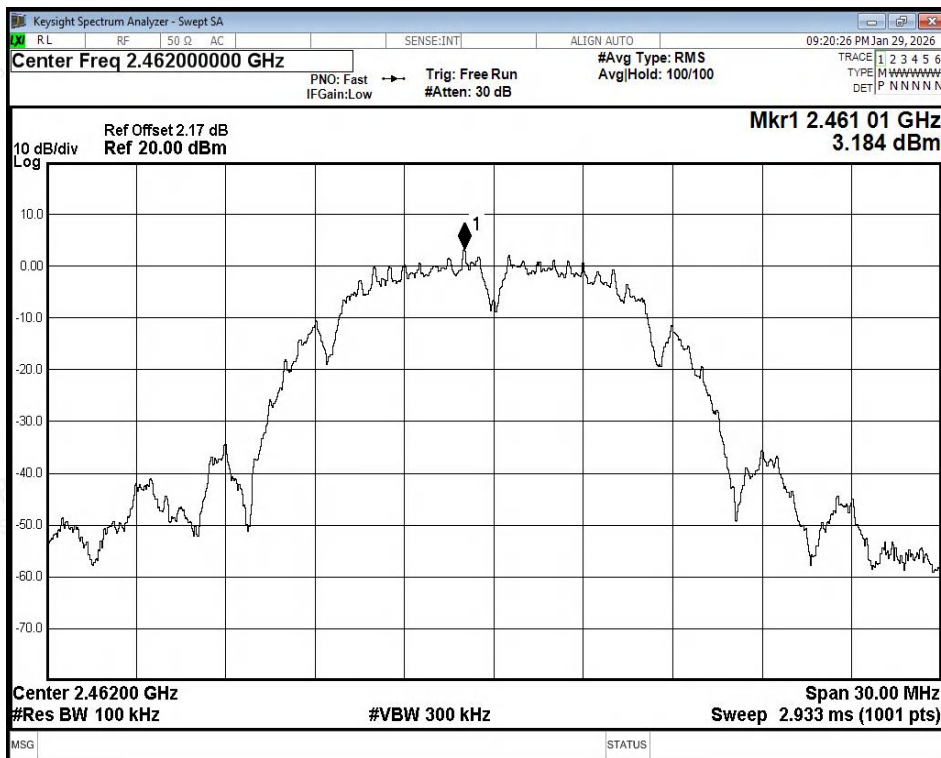


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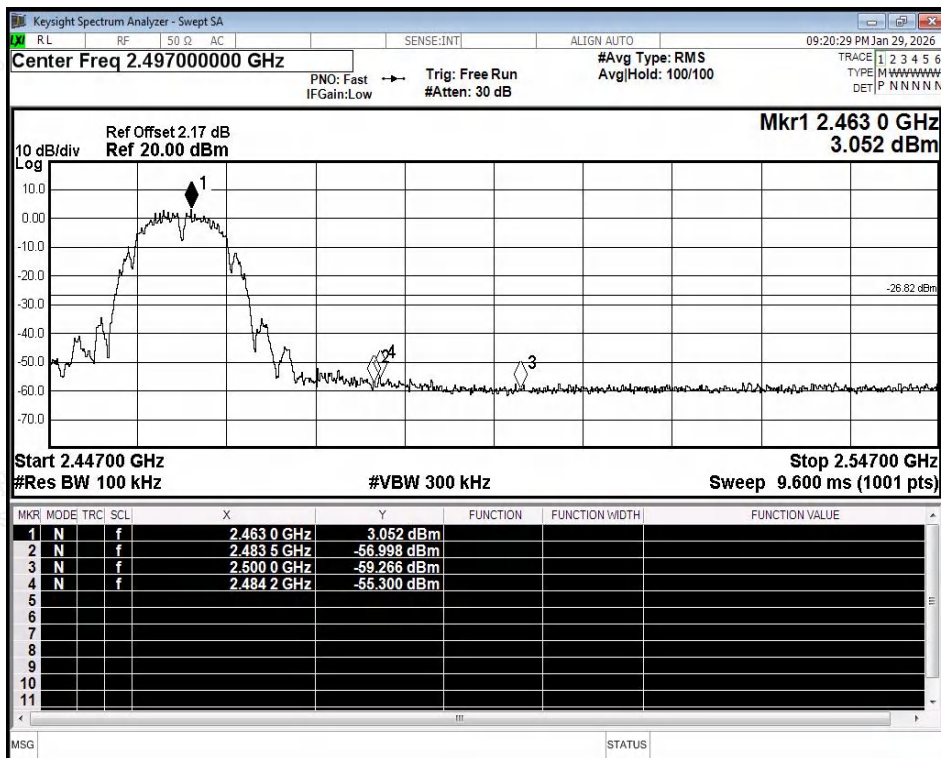
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Band Edge NVNT b 2462MHz Ant1 Ref



Band Edge NVNT b 2462MHz Ant1 Emission

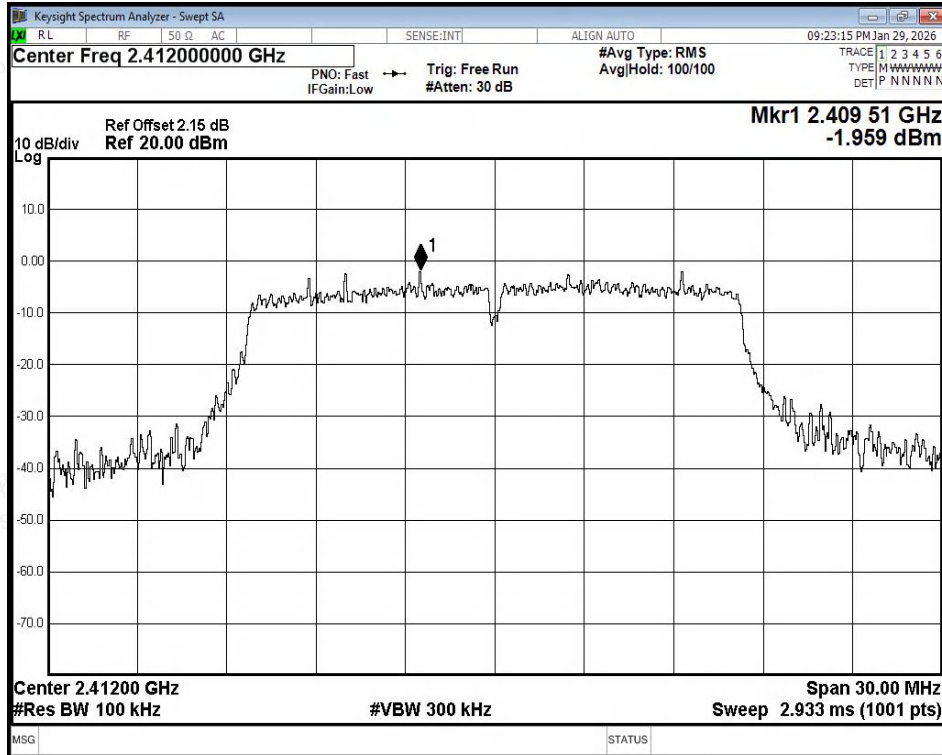


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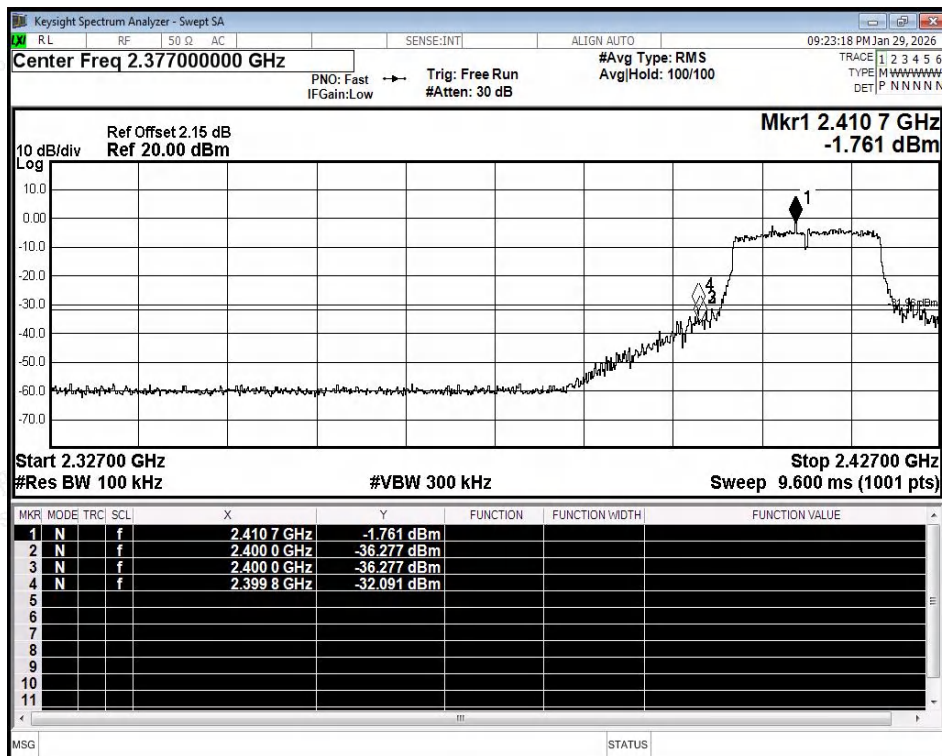
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Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission

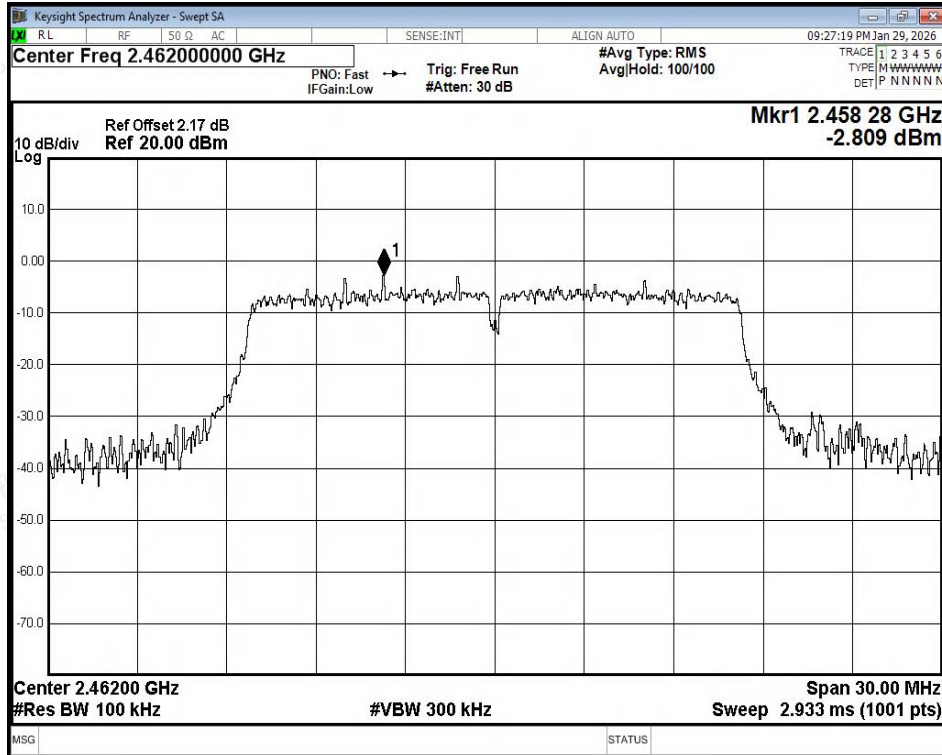


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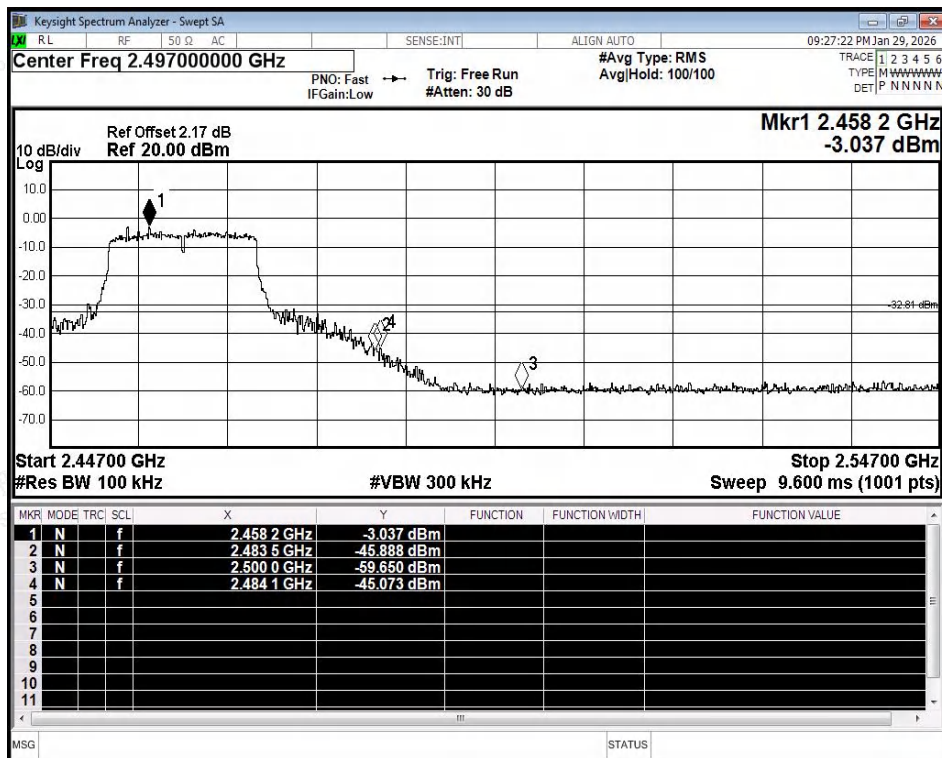
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Band Edge NVNT g 2462MHz Ant1 Ref



Band Edge NVNT g 2462MHz Ant1 Emission



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B.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-42.61	-30	Pass
NVNT	b	2437	Ant1	-41.66	-30	Pass
NVNT	b	2462	Ant1	-40.68	-30	Pass
NVNT	g	2412	Ant1	-37.13	-30	Pass
NVNT	g	2437	Ant1	-35.29	-30	Pass
NVNT	g	2462	Ant1	-36.02	-30	Pass

Note :Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum

Analyzer during the test.

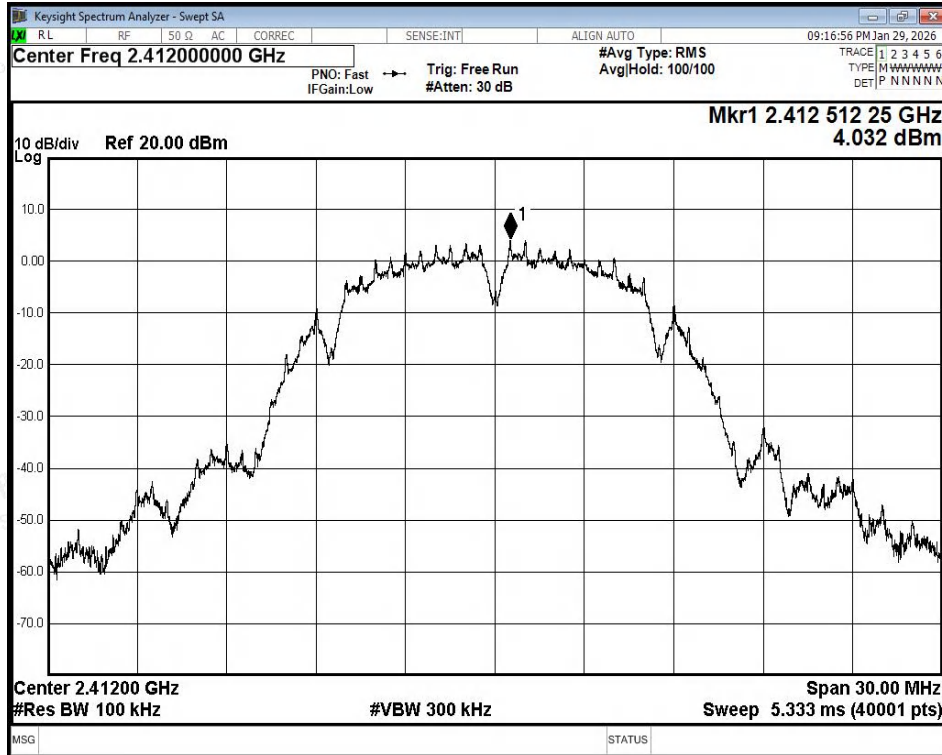


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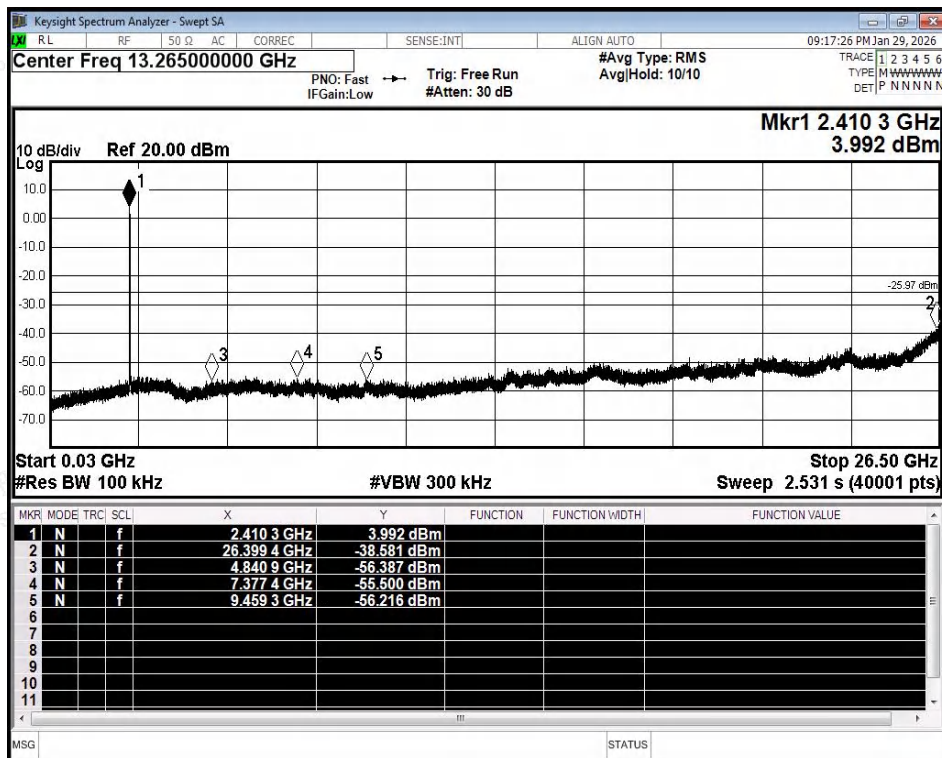
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Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission

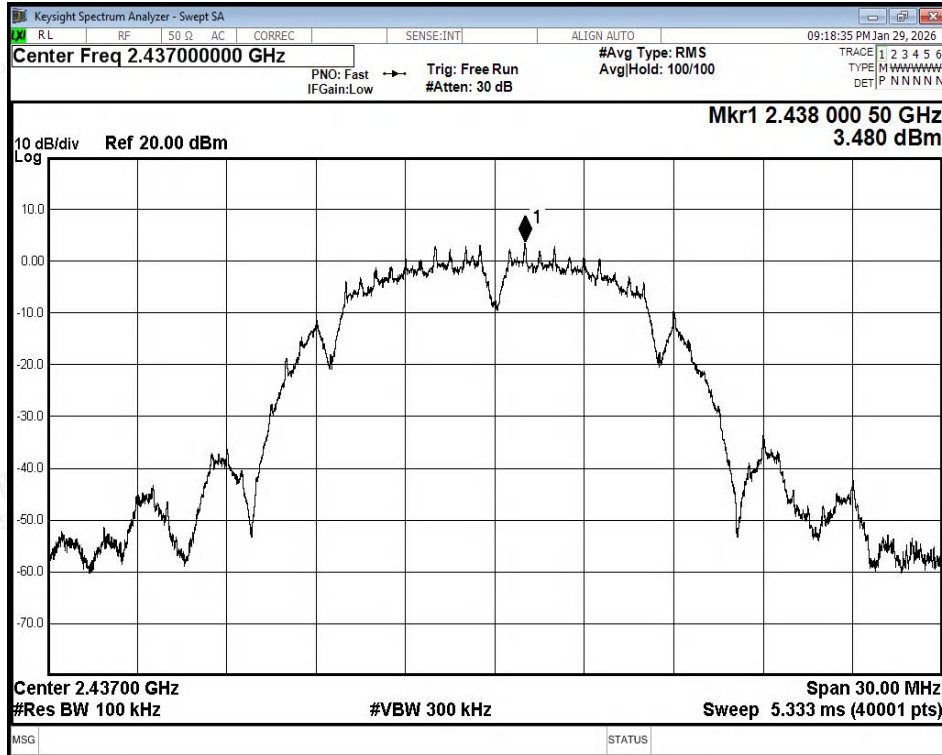


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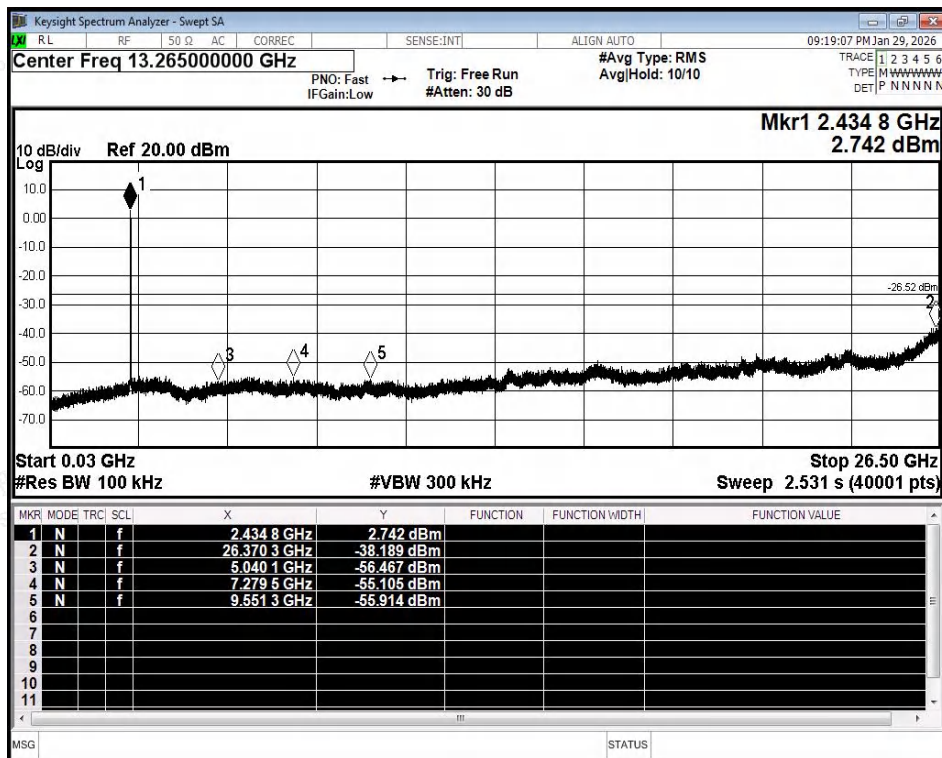
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Tx. Spurious NVNT b 2437MHz Ant1 Ref



Tx. Spurious NVNT b 2437MHz Ant1 Emission

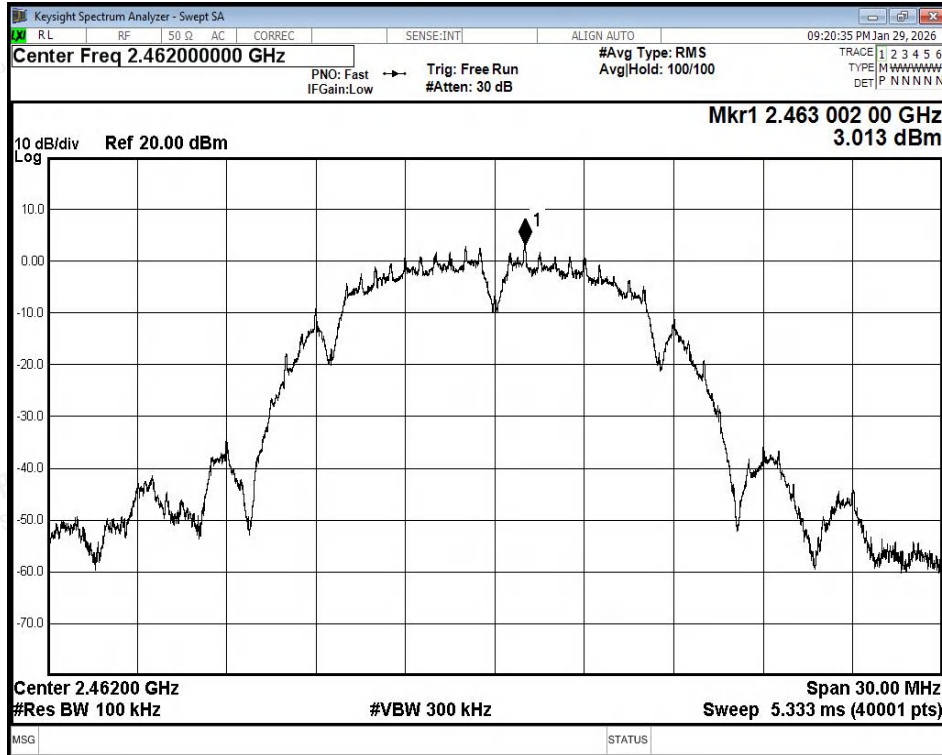


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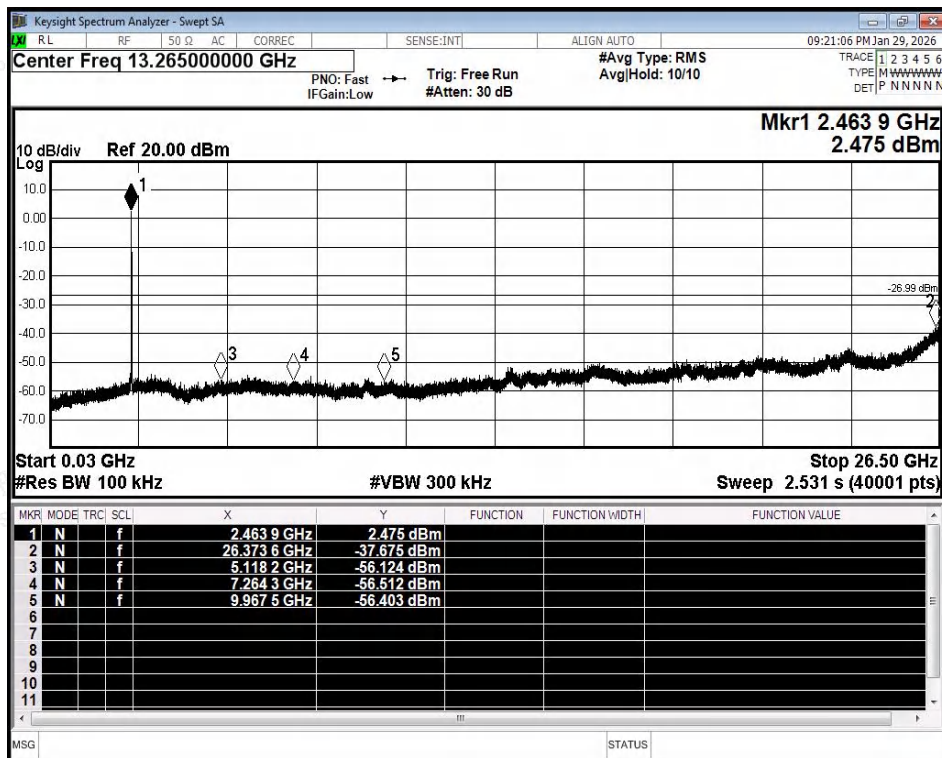
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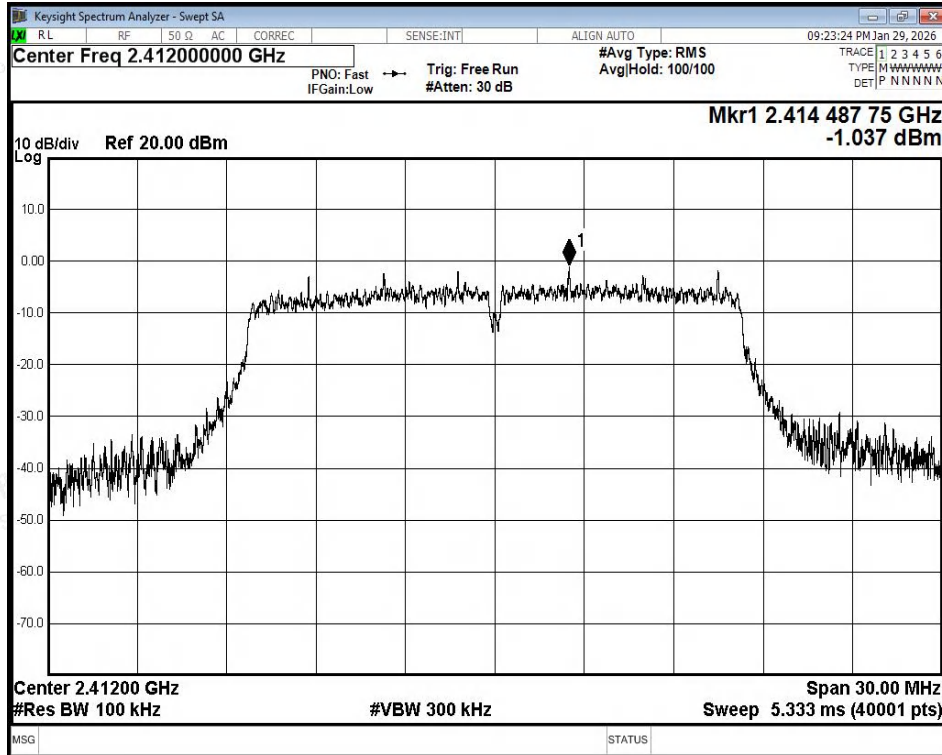


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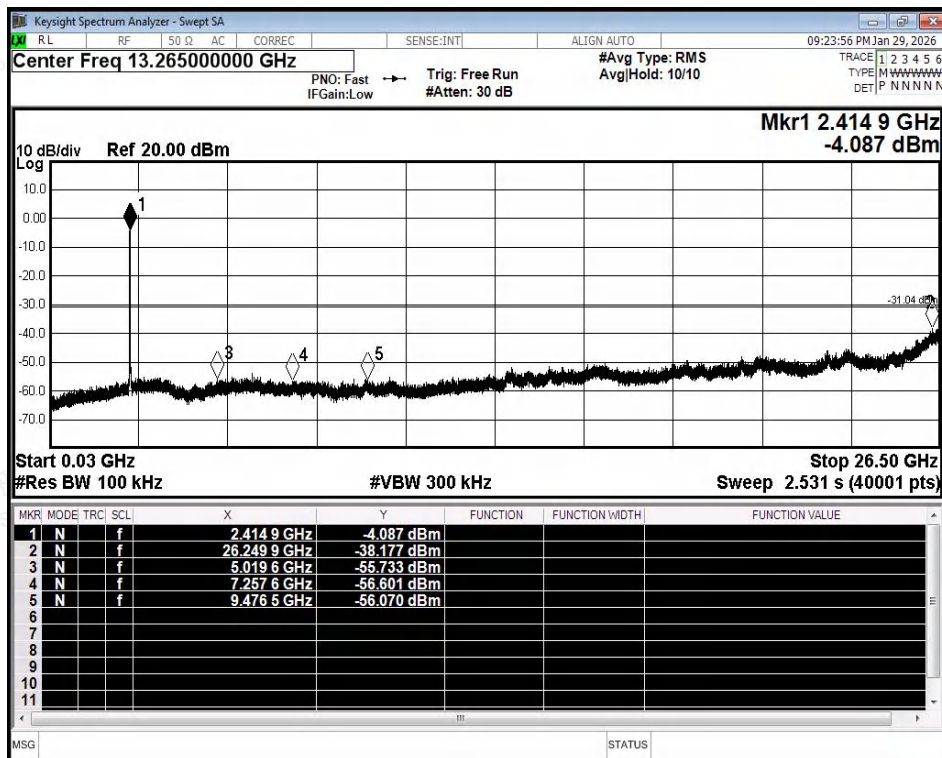
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Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

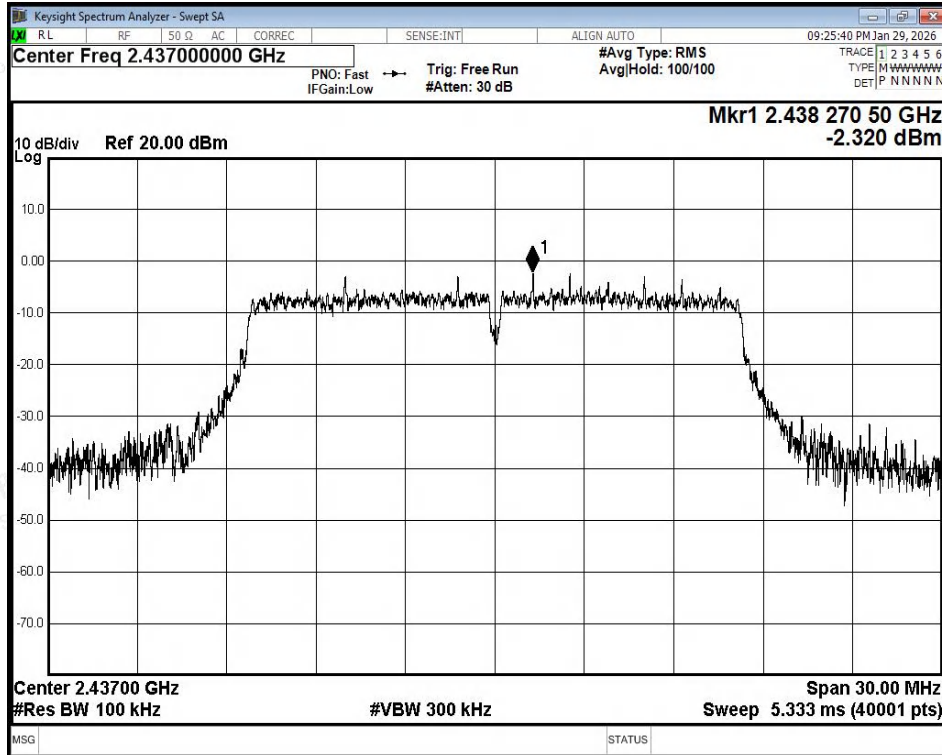


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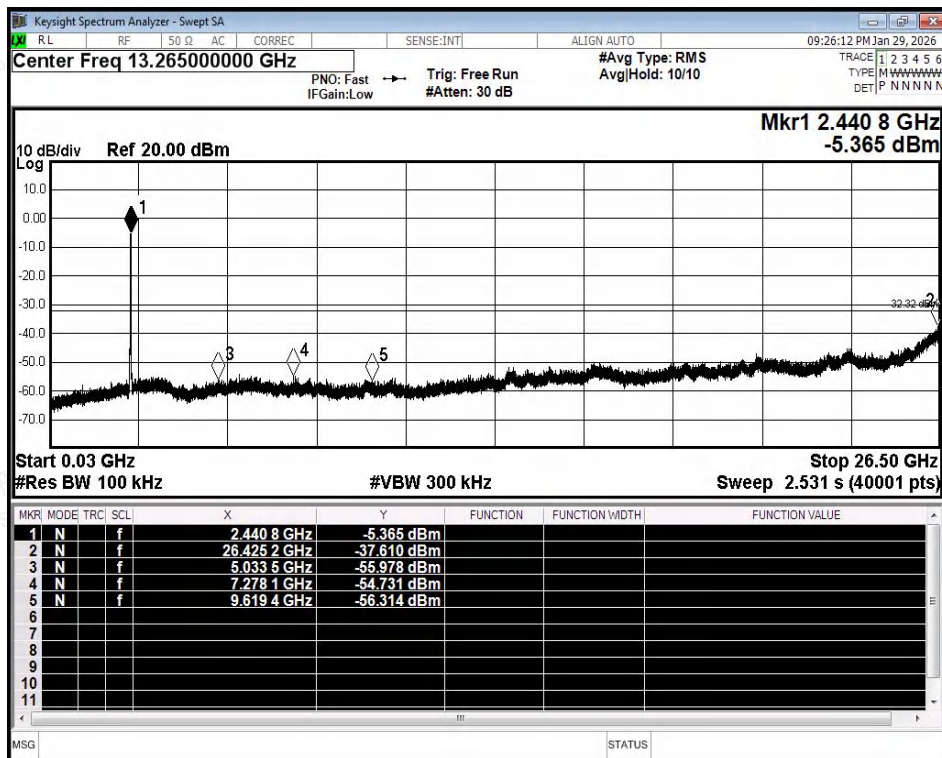
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Tx. Spurious NVNT g 2437MHz Ant1 Ref



Tx. Spurious NVNT g 2437MHz Ant1 Emission

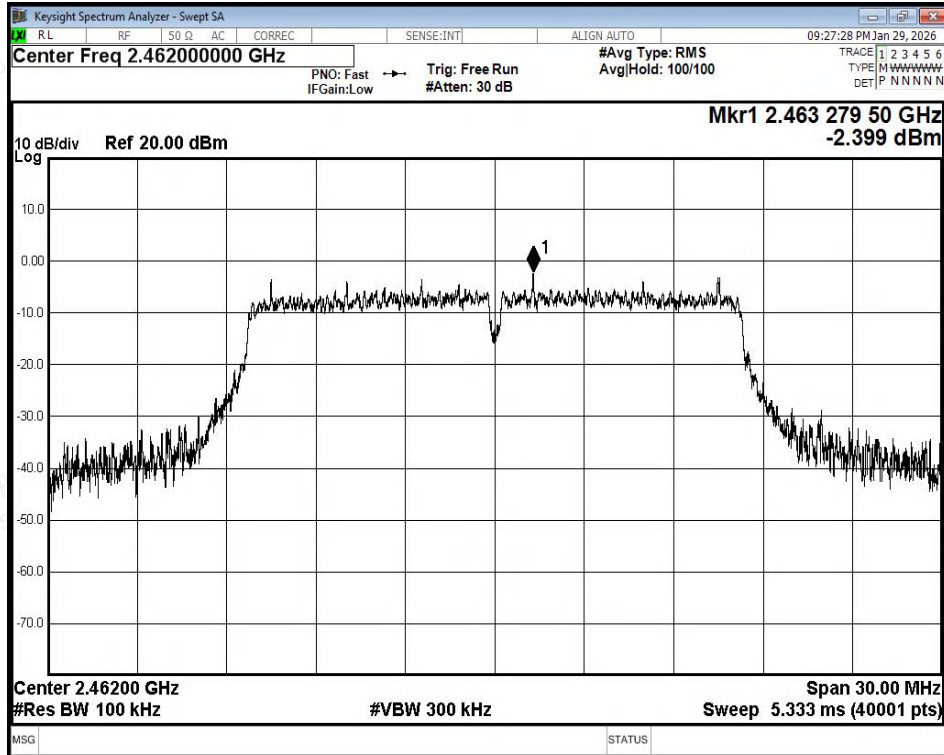


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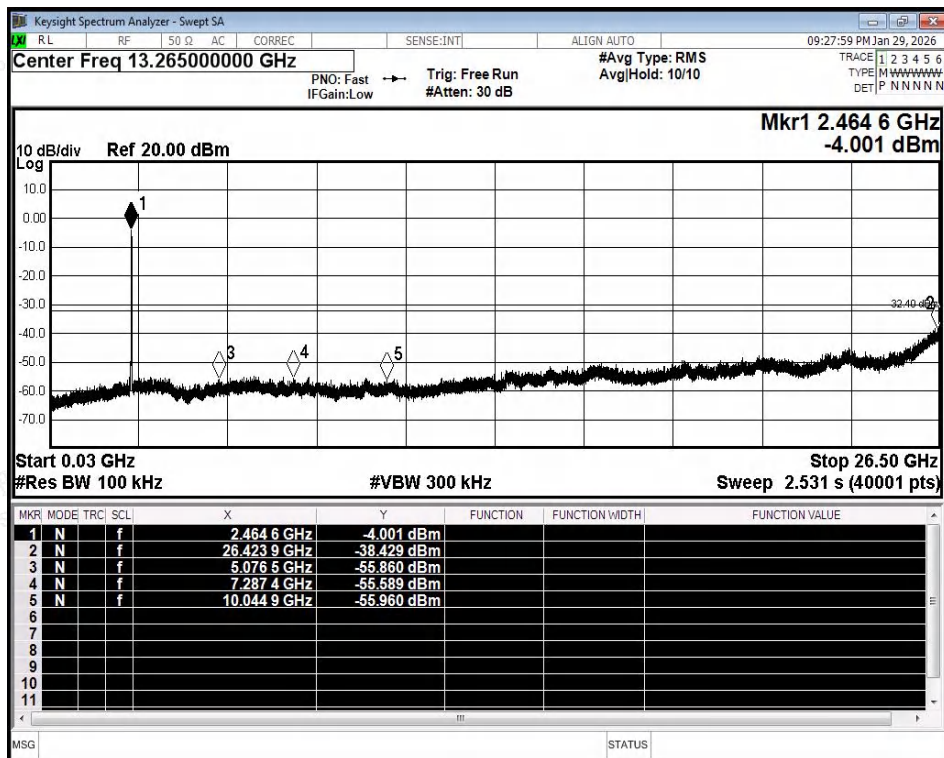
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B.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.87	0.05	0.15
NVNT	b	2437	Ant1	99.16	0.04	0.15
NVNT	b	2462	Ant1	99.16	0.04	0.15
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37

Note :offset=System attenuation +cabal loss

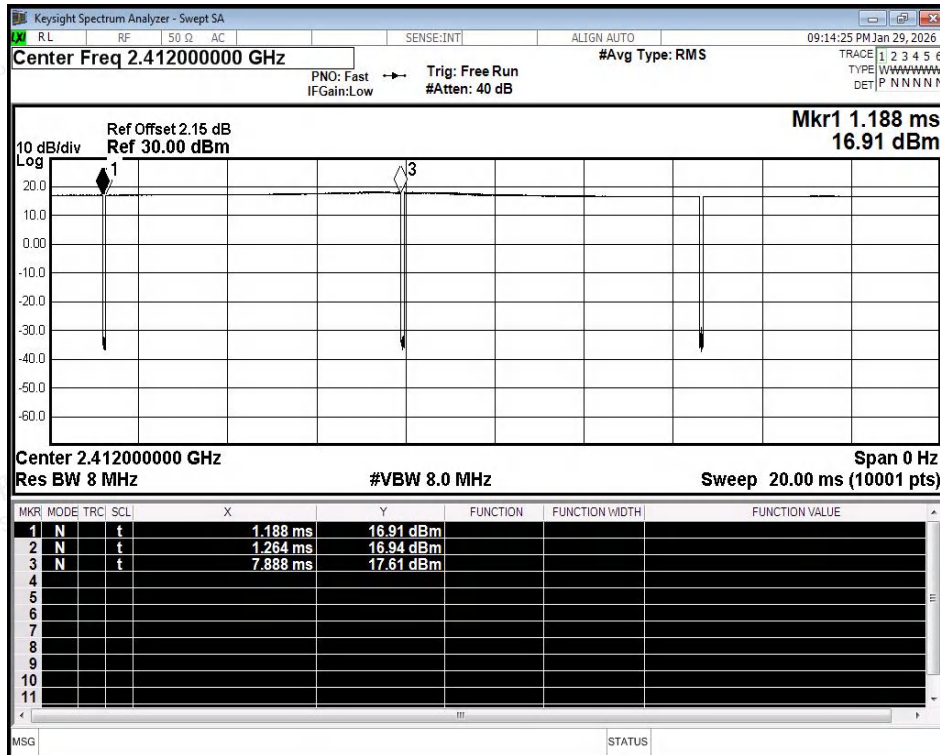


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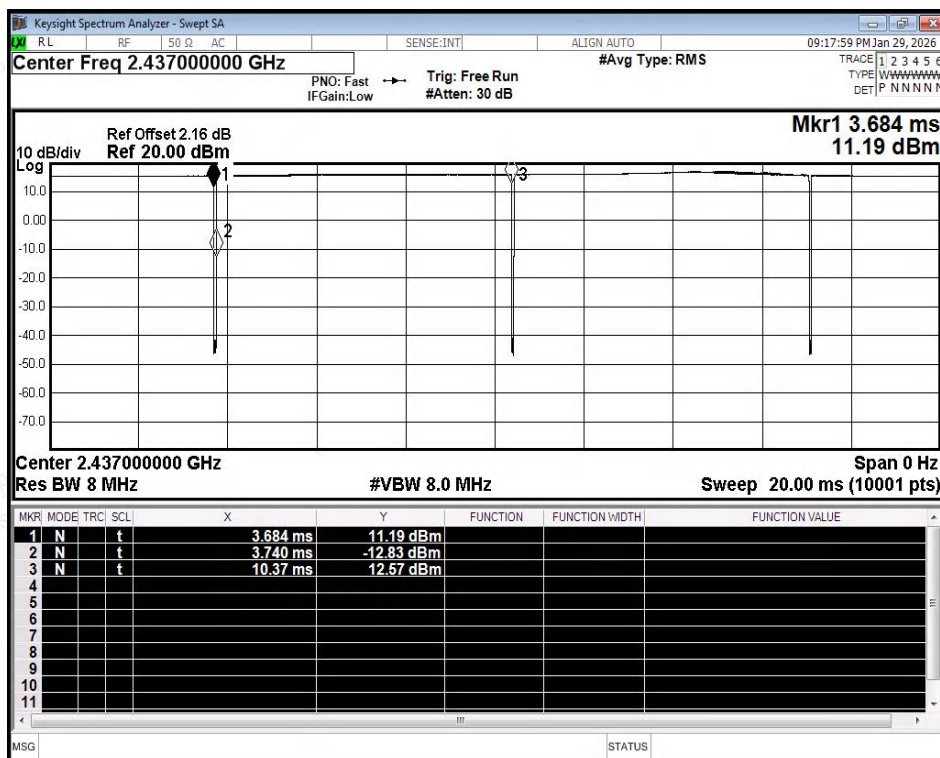
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Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1

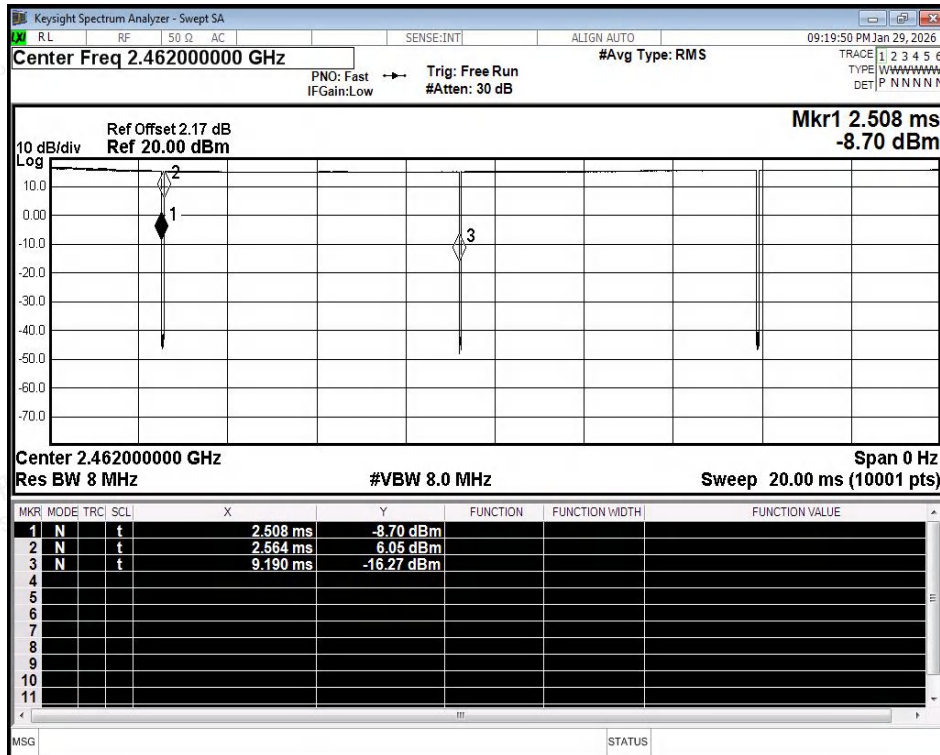


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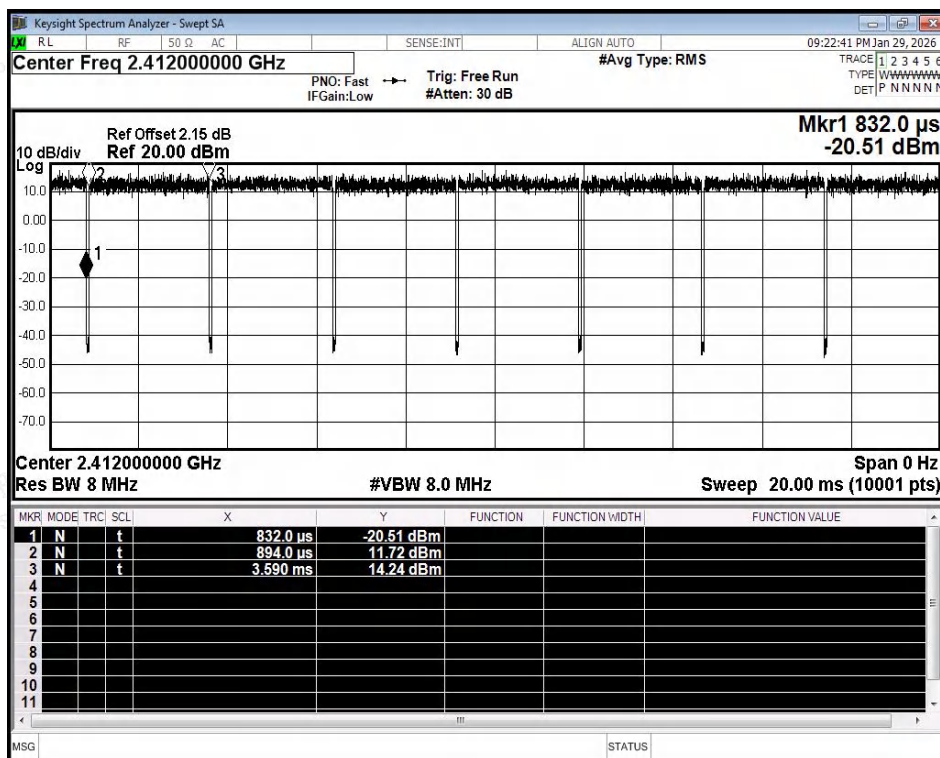
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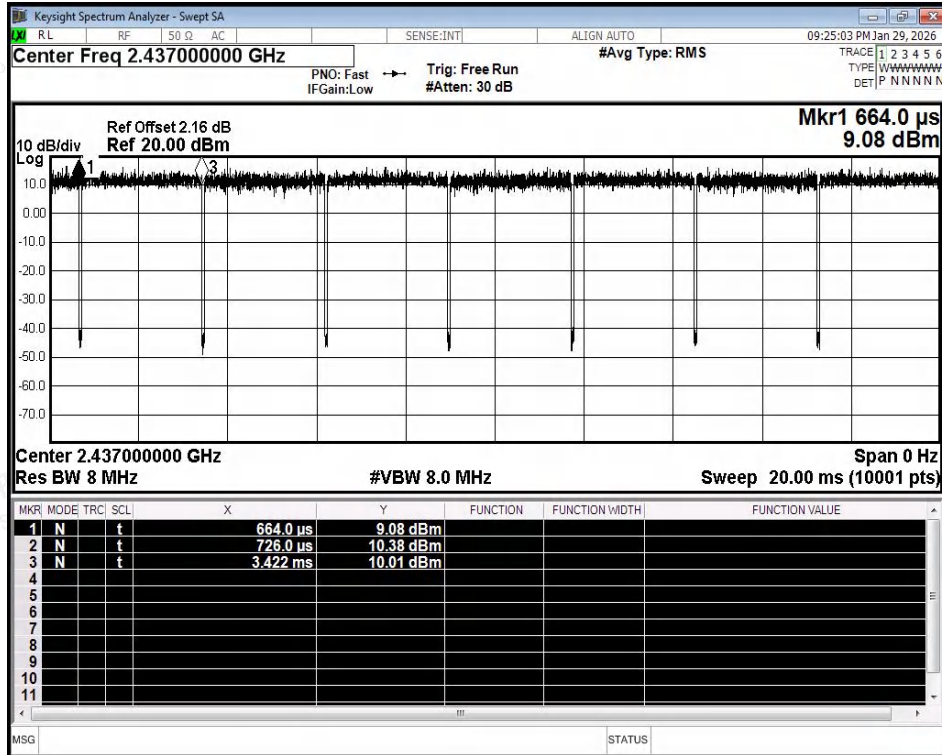


Duty Cycle NVNT b 2462MHz Ant1

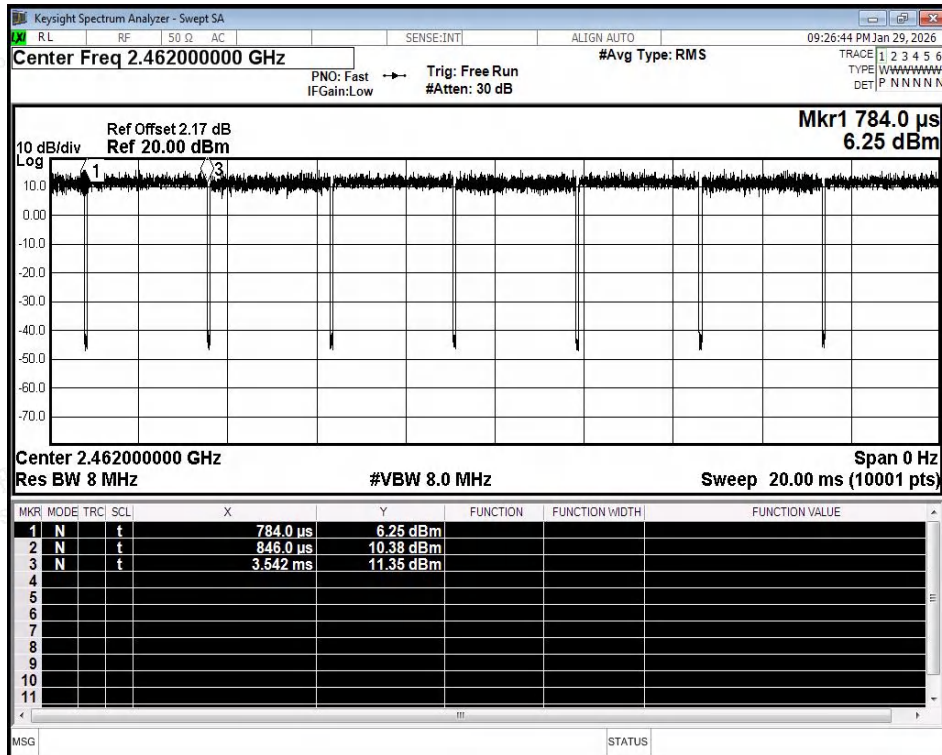


Duty Cycle NVNT g 2412MHz Ant1





Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1



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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	b	2412	Ant1	2310	-49.72	3.0	48.54	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-57.8	3.0	40.46	Average	54	Pass
NVNT	b	2412	Ant1	2389.794	-46.11	3.0	52.15	Peak	74	Pass
NVNT	b	2412	Ant1	2389.326	-55.87	3.0	42.39	Average	54	Pass
NVNT	b	2412	Ant1	2390	-48.29	3.0	49.97	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-56.12	3.0	42.14	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-49.03	3.0	49.23	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55.59	3.0	42.67	Average	54	Pass
NVNT	b	2462	Ant1	2486.432	-45.27	3.0	52.99	Peak	74	Pass
NVNT	b	2462	Ant1	2484.471	-55.21	3.0	43.05	Average	54	Pass
NVNT	b	2462	Ant1	2500	-51.16	3.0	47.10	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.67	3.0	40.59	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.88	3.0	47.38	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.48	3.0	40.78	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-46.34	3.0	51.92	Peak	74	Pass
NVNT	g	2412	Ant1	2389.794	-56.8	3.0	41.46	Average	54	Pass
NVNT	g	2412	Ant1	2390	-47.96	3.0	50.30	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-56.67	3.0	41.59	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-45.65	3.0	52.61	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-55.82	3.0	42.44	Average	54	Pass
NVNT	g	2462	Ant1	2483.994	-42.12	3.0	56.14	Peak	74	Pass
NVNT	g	2462	Ant1	2483.623	-55.76	3.0	42.50	Average	54	Pass
NVNT	g	2462	Ant1	2500	-49.69	3.0	48.57	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.41	3.0	40.85	Average	54	Pass

Note :offset=System attenuation +cabal loss

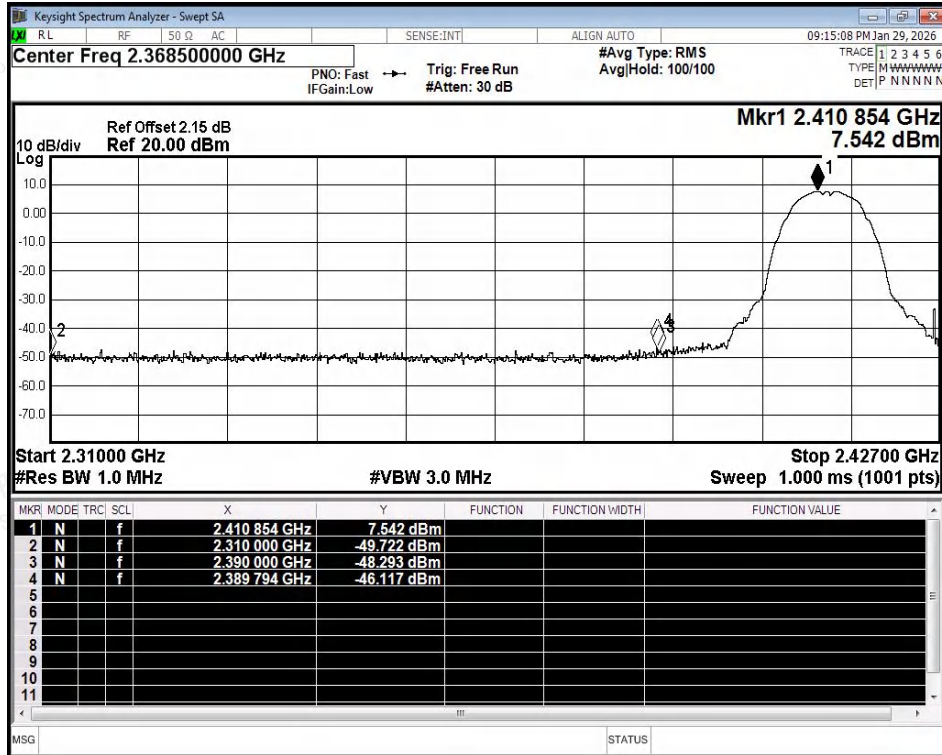


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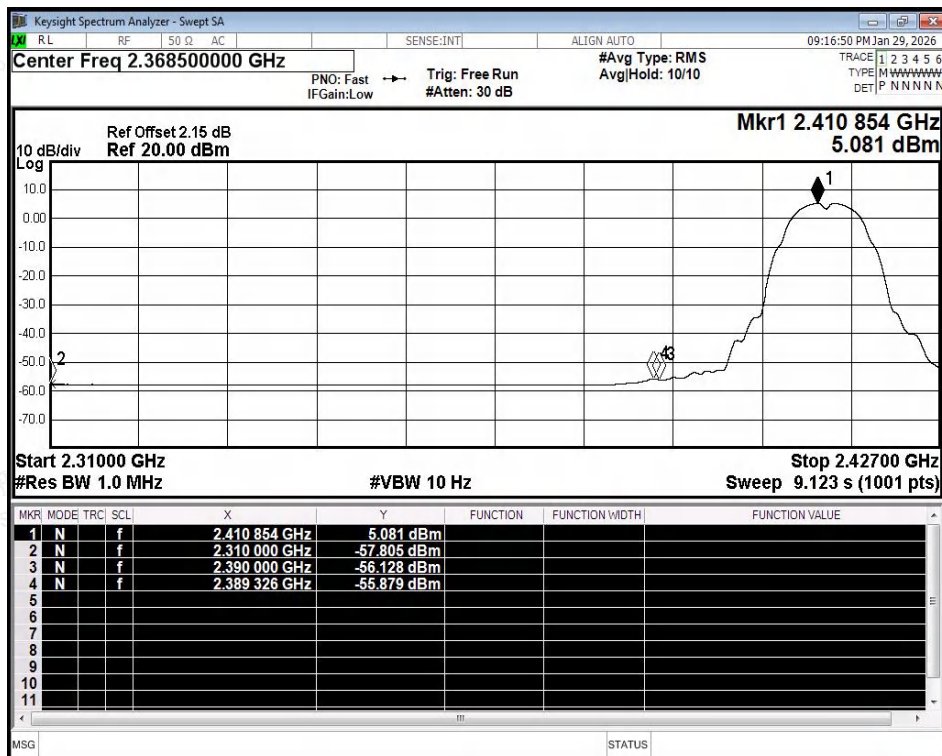
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Restrict Band NVNT b 2412MHz Ant1 Peak



Restrict Band NVNT b 2412MHz Ant1 Average

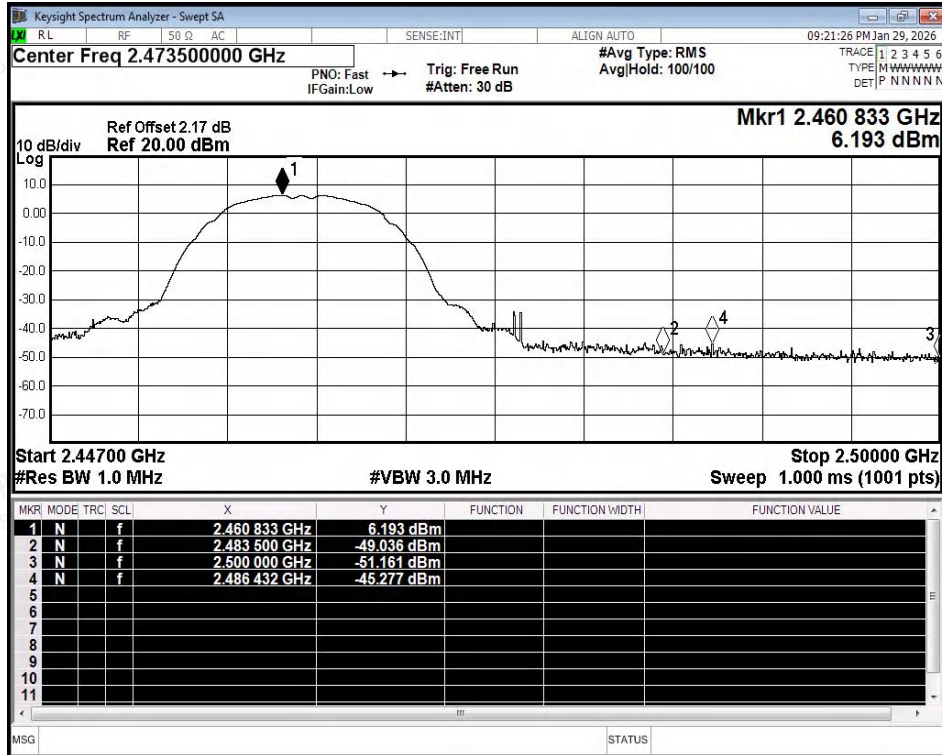


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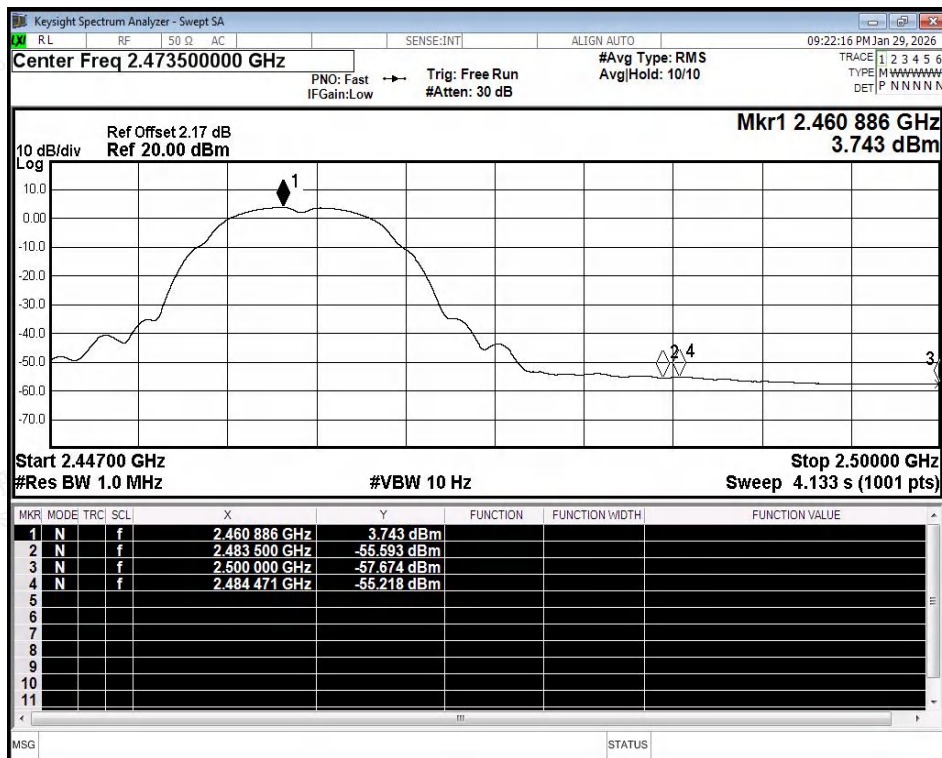
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Restrict Band NVNT b 2462MHz Ant1 Peak



Restrict Band NVNT b 2462MHz Ant1 Average

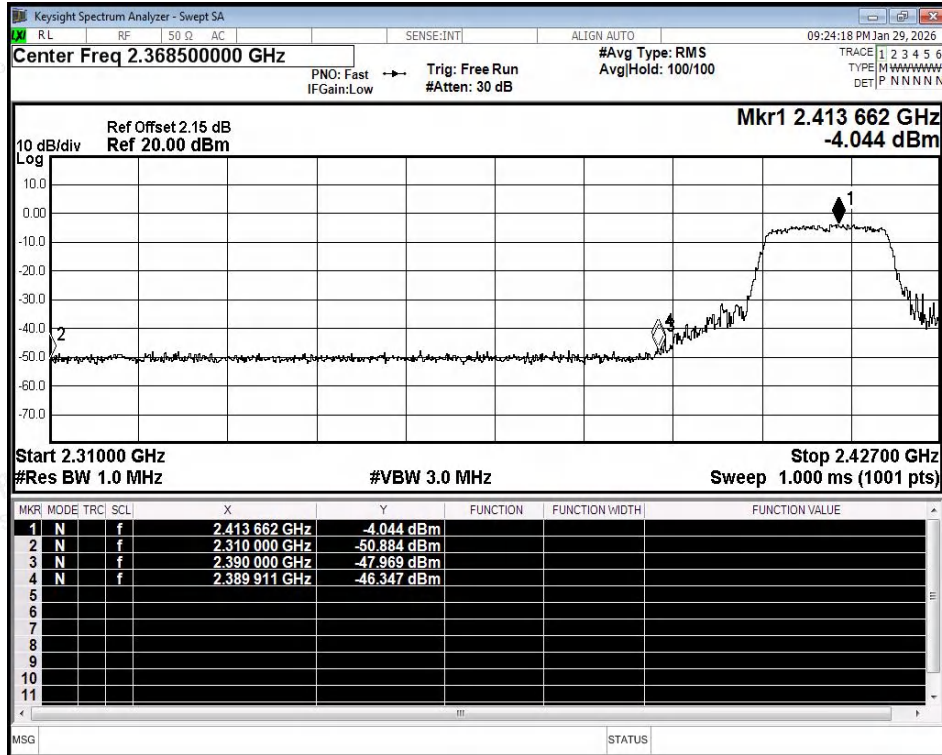


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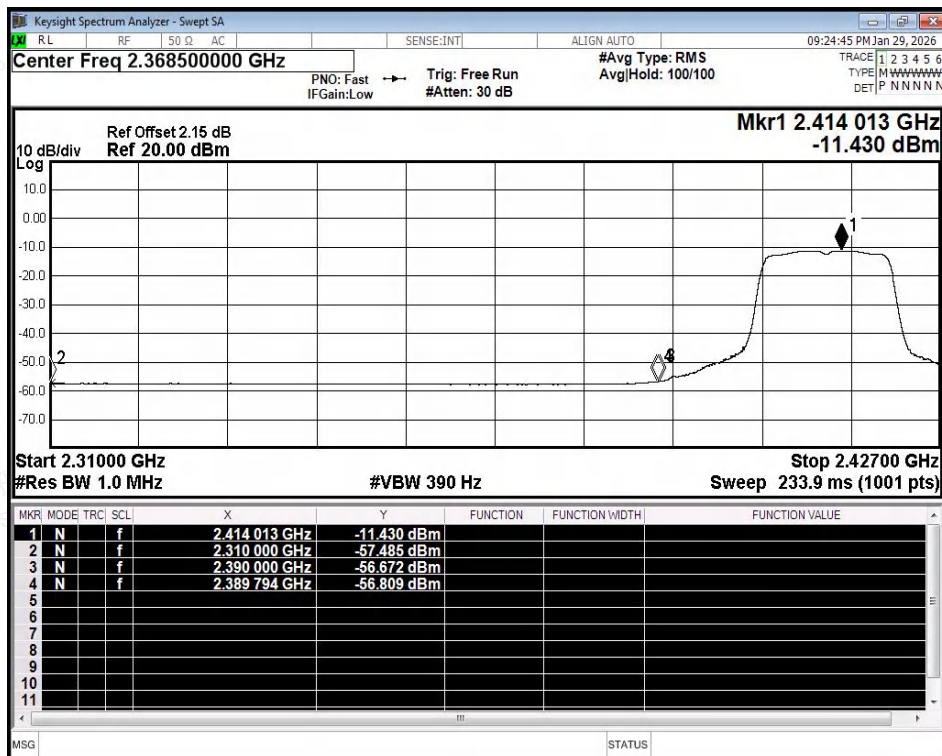
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Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

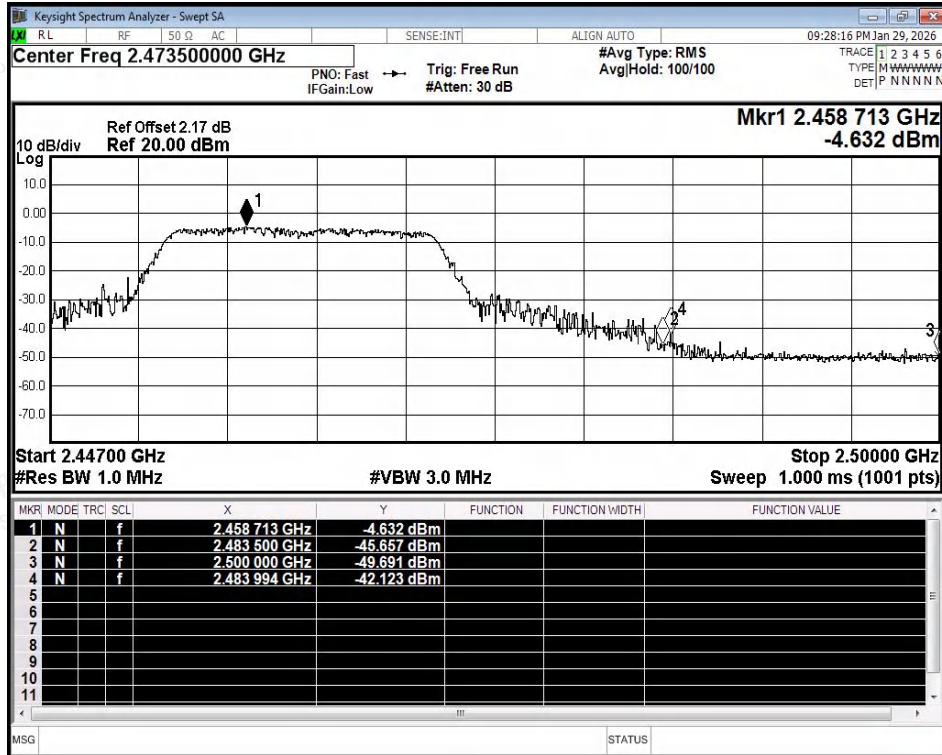


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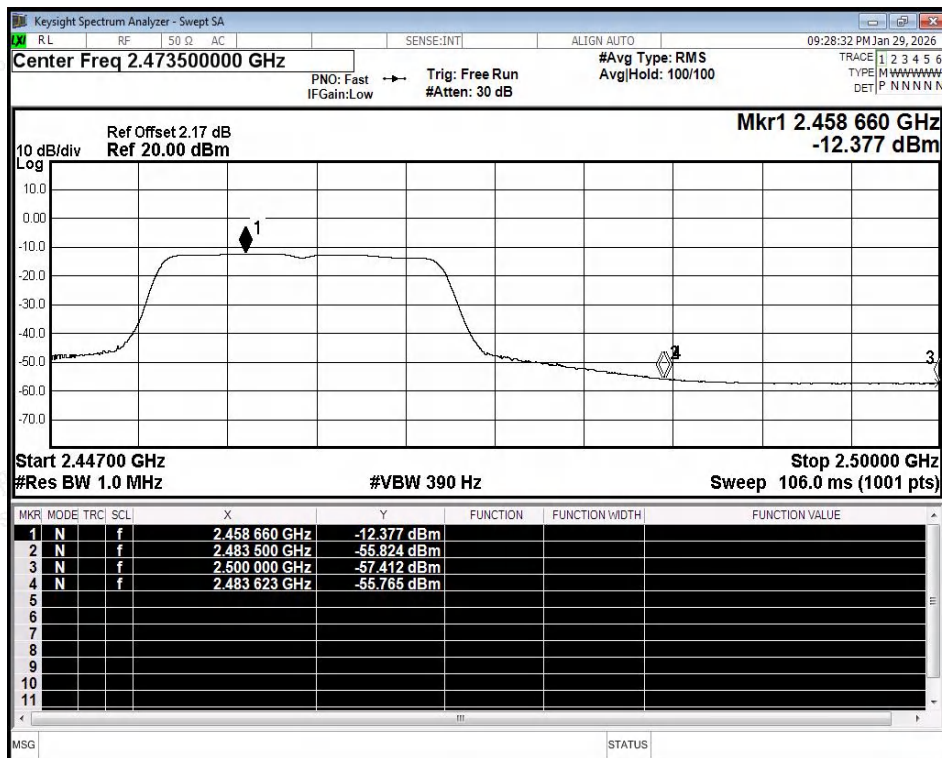
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Restrict Band NVNT g 2462MHz Ant1 Peak



Restrict Band NVNT g 2462MHz Ant1 Average



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