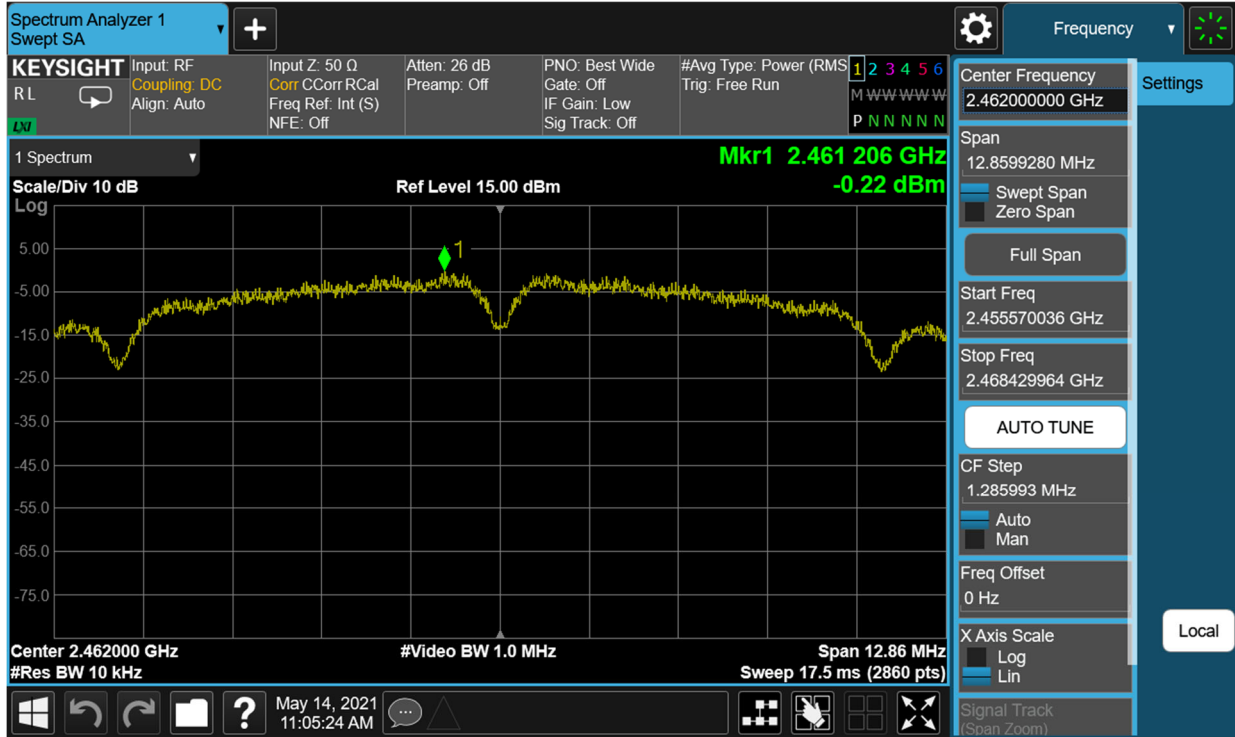
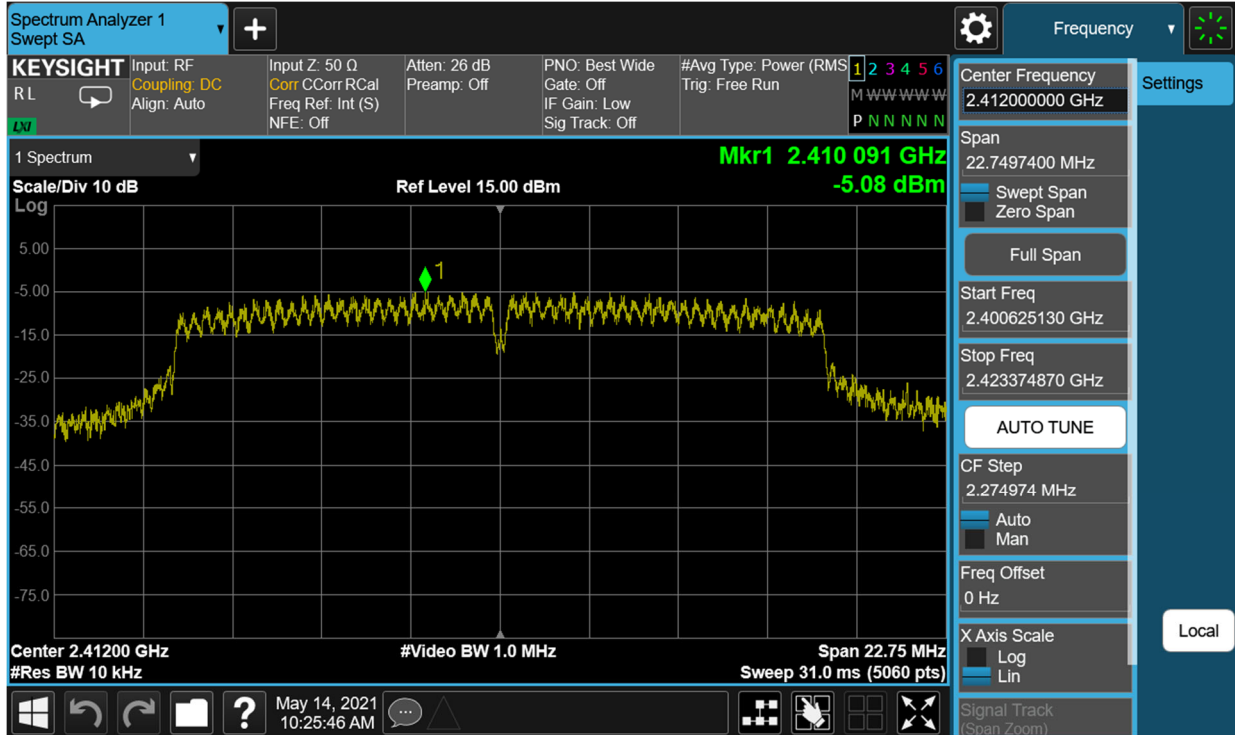


Plot 7-11. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 6)

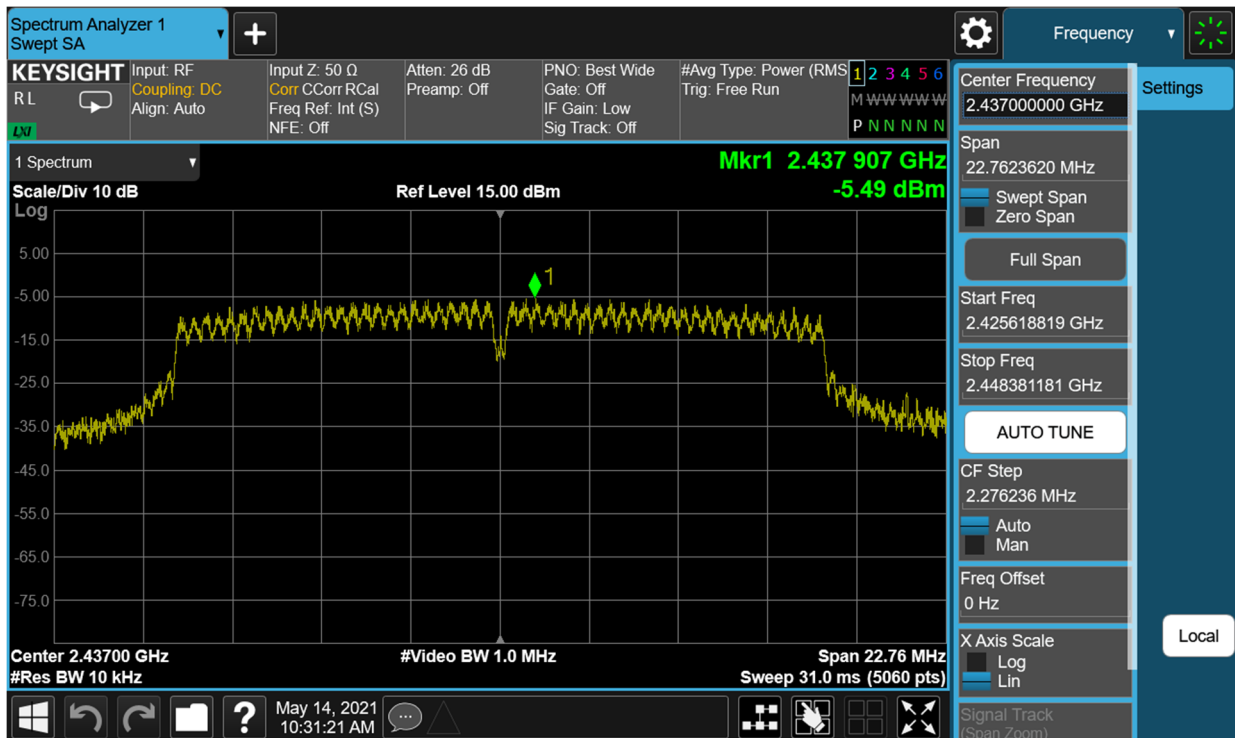


Plot 7-12. Power Spectral Density Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMA127FN	PCTEST Proud to be part of element	MEASUREMENT REPORT (Certification)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1K2105110019-06.A3L	Test Dates: 5/13 ~ 6/1/2021	EUT Type: Portable handset		Page 25 of 56

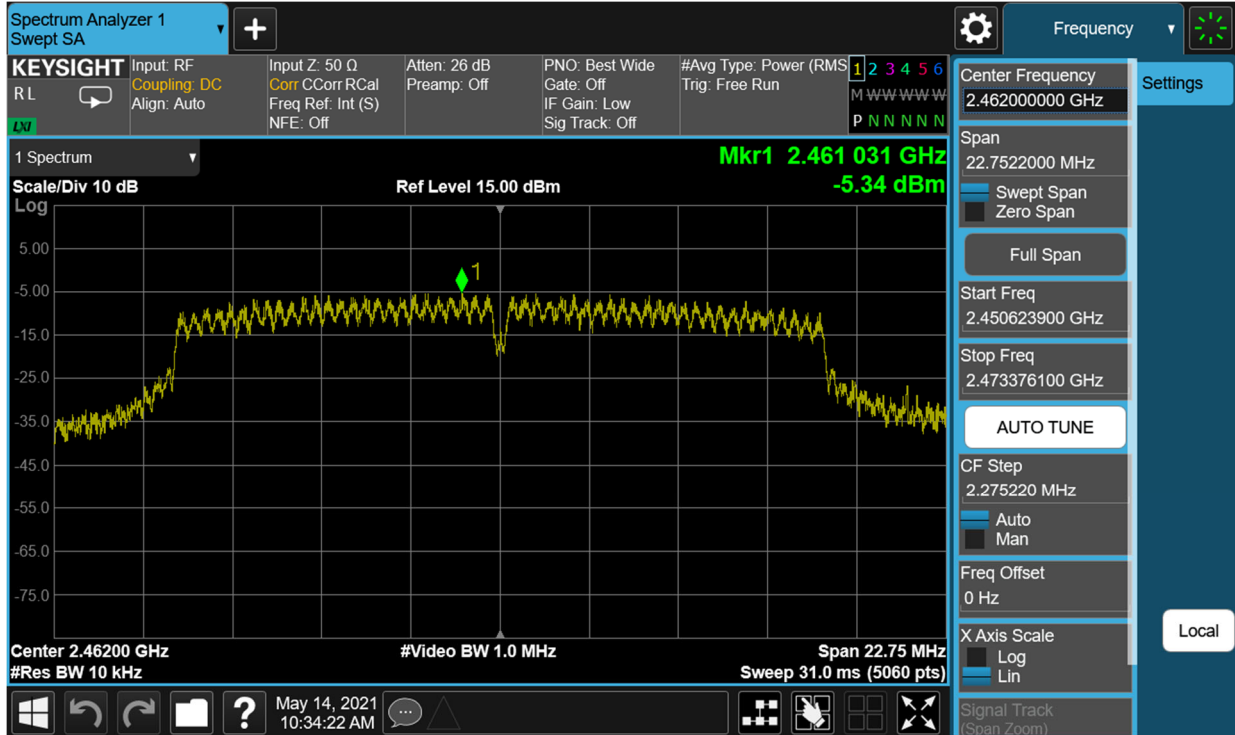


Plot 7-13. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 1)

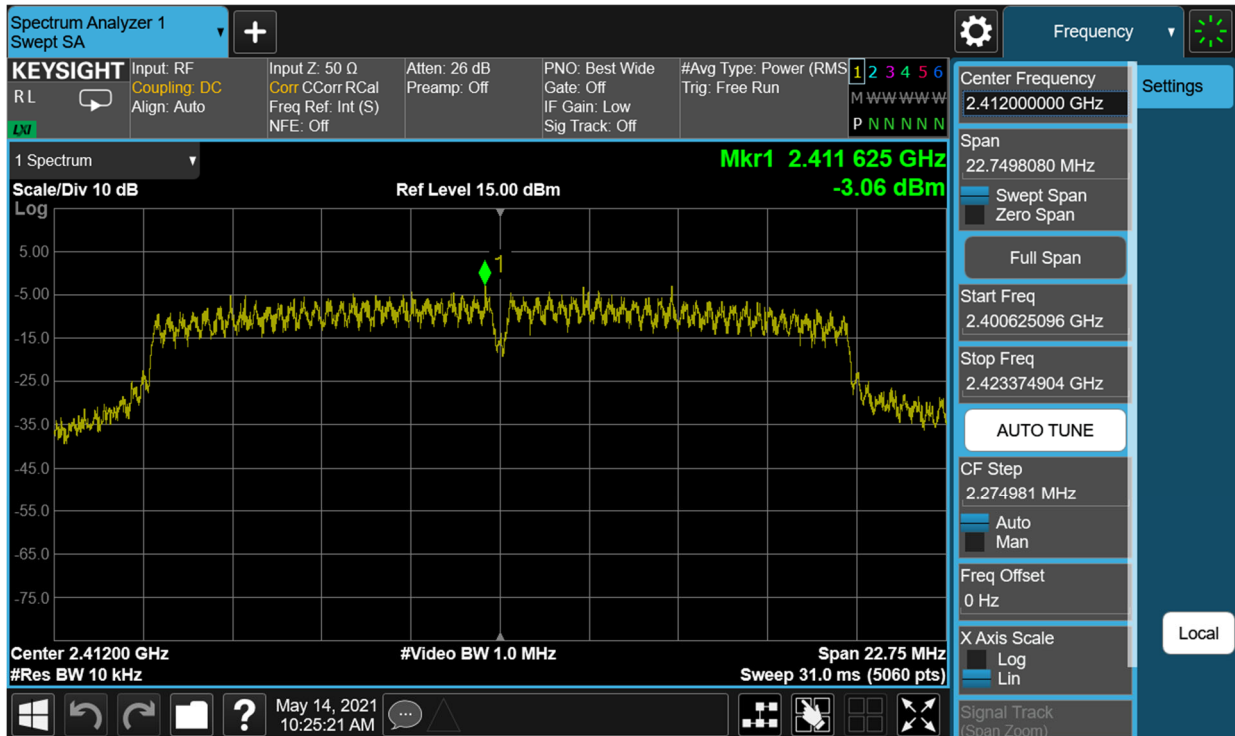


Plot 7-14. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 6)

FCC ID: A3LSMA127FN	PCTEST Proud to be part of element	MEASUREMENT REPORT (Certification)	Approved by: Technical Manager
Test Report S/N: 1K2105110019-06.A3L	Test Dates: 5/13 ~ 6/1/2021	EUT Type: Portable handset	Page 26 of 56

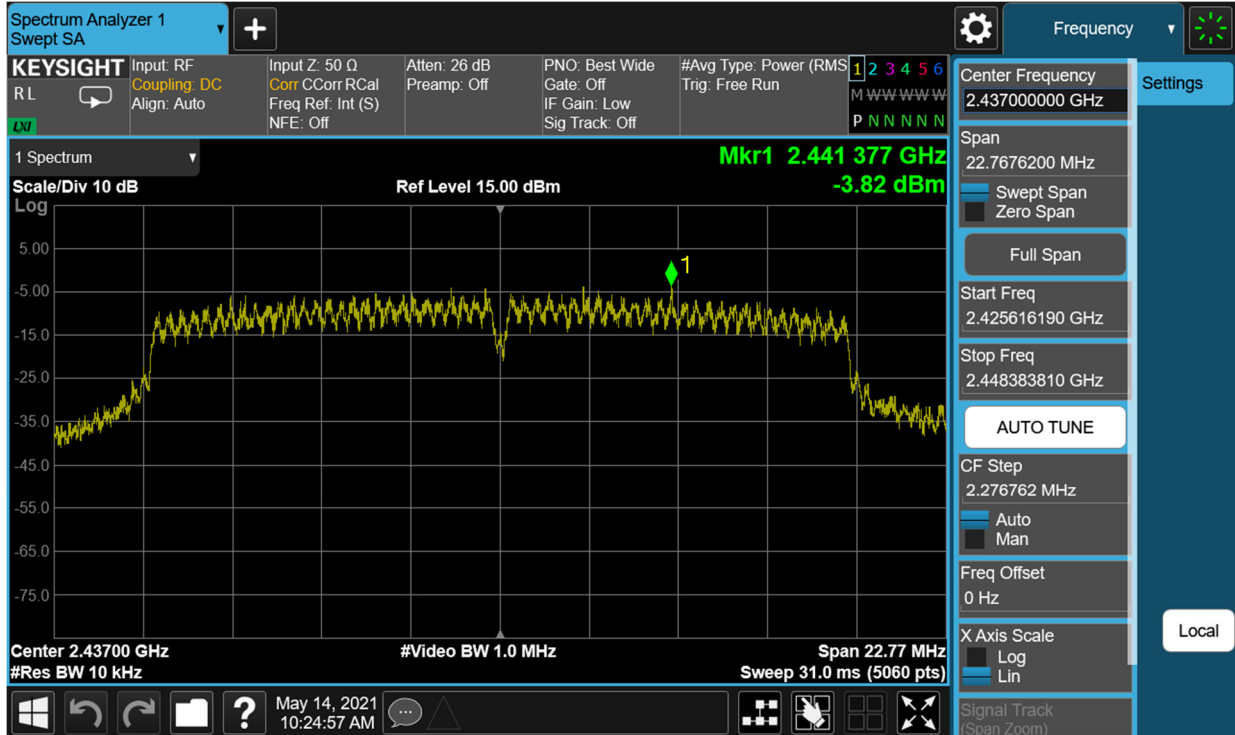


Plot 7-15. Power Spectral Density Plot SISO ANT1 (802.11g – Ch. 11)

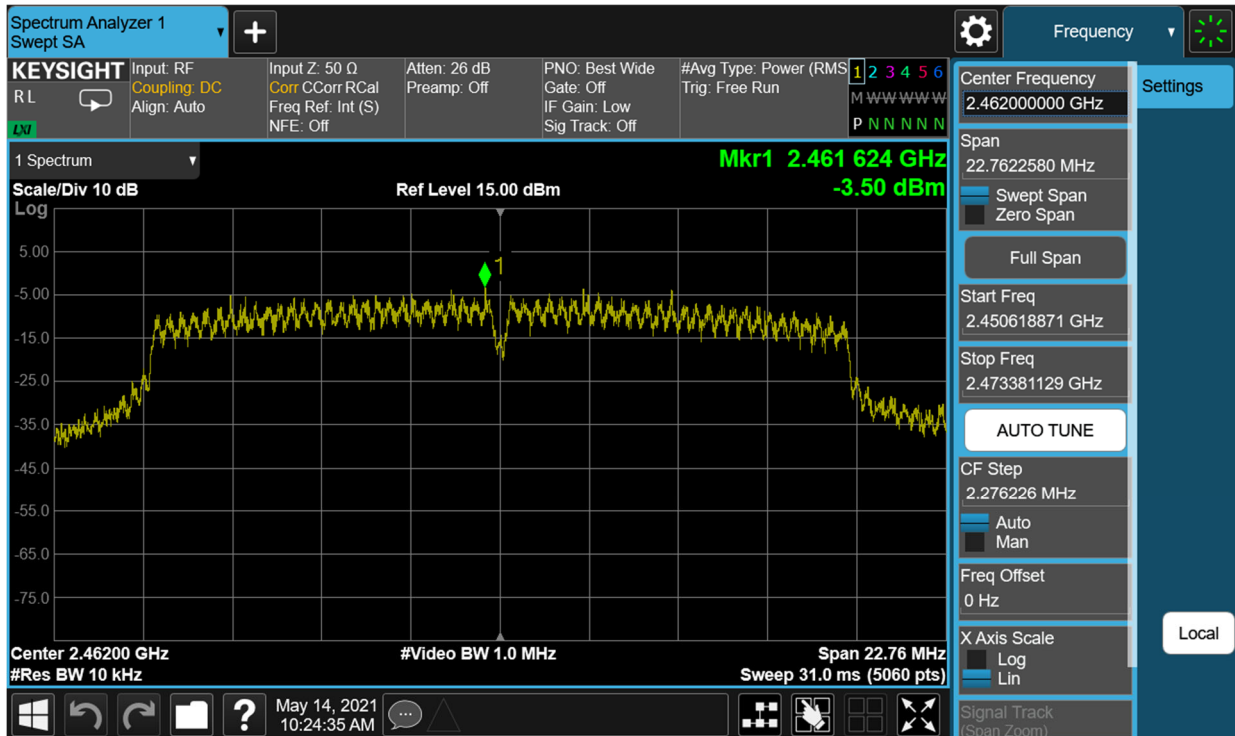


Plot 7-16. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)

FCC ID: A3LSMA127FN	PCTEST Proud to be part of element	MEASUREMENT REPORT (Certification)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1K2105110019-06.A3L	Test Dates: 5/13 ~ 6/1/2021	EUT Type: Portable handset		Page 27 of 56



Plot 7-17. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 6)



Plot 7-18. Power Spectral Density Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

FCC ID: A3LSMA127FN	PCTEST Proud to be part of element	MEASUREMENT REPORT (Certification)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1K2105110019-06.A3L	Test Dates: 5/13 ~ 6/1/2021	EUT Type: Portable handset		Page 28 of 56

7.5 Conducted Emissions at the Band Edge

§15.247(d); RSS-247 [5.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for “b” mode, 6 Mbps for “g” mode, 6.5/7.2Mbps for “n” mode, and 8.6Mbps for “ax” mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 7.4).

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05 – Section 8.7.2

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW = 100kHz
4. VBW = 1MHz
5. Detector = Peak
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = max hold
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup



The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

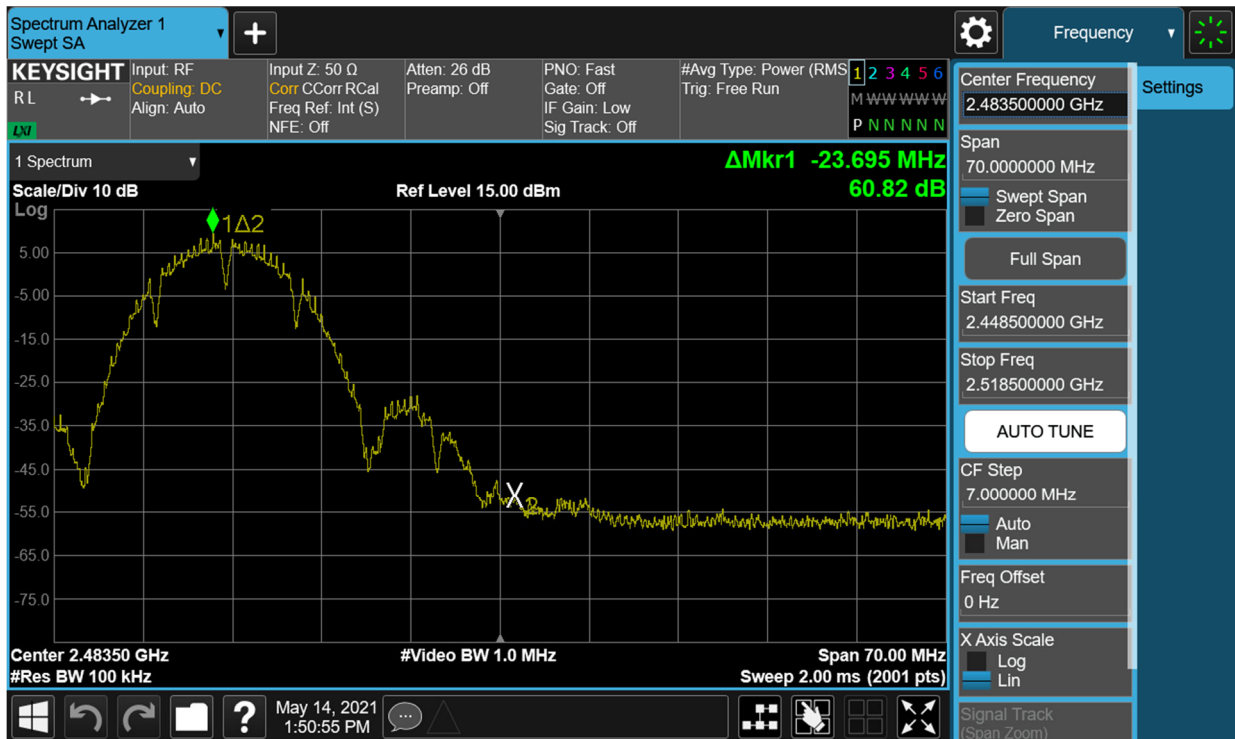
None

FCC ID: A3LSMA127FN		MEASUREMENT REPORT (Certification)		Approved by: Technical Manager
Test Report S/N: 1K2105110019-06.A3L	Test Dates: 5/13 ~ 6/1/2021	EUT Type: Portable handset		Page 29 of 56

SISO Antenna-1 Conducted Emissions at the Band Edge



Plot 7-19. Band Edge Plot SISO ANT1 (802.11b – Ch. 1)



Plot 7-20. Band Edge Plot SISO ANT1 (802.11b – Ch. 11)

FCC ID: A3LSMA127FN	PCTEST Proud to be part of element	MEASUREMENT REPORT (Certification)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1K2105110019-06.A3L	Test Dates: 5/13 ~ 6/1/2021	EUT Type: Portable handset		Page 30 of 56