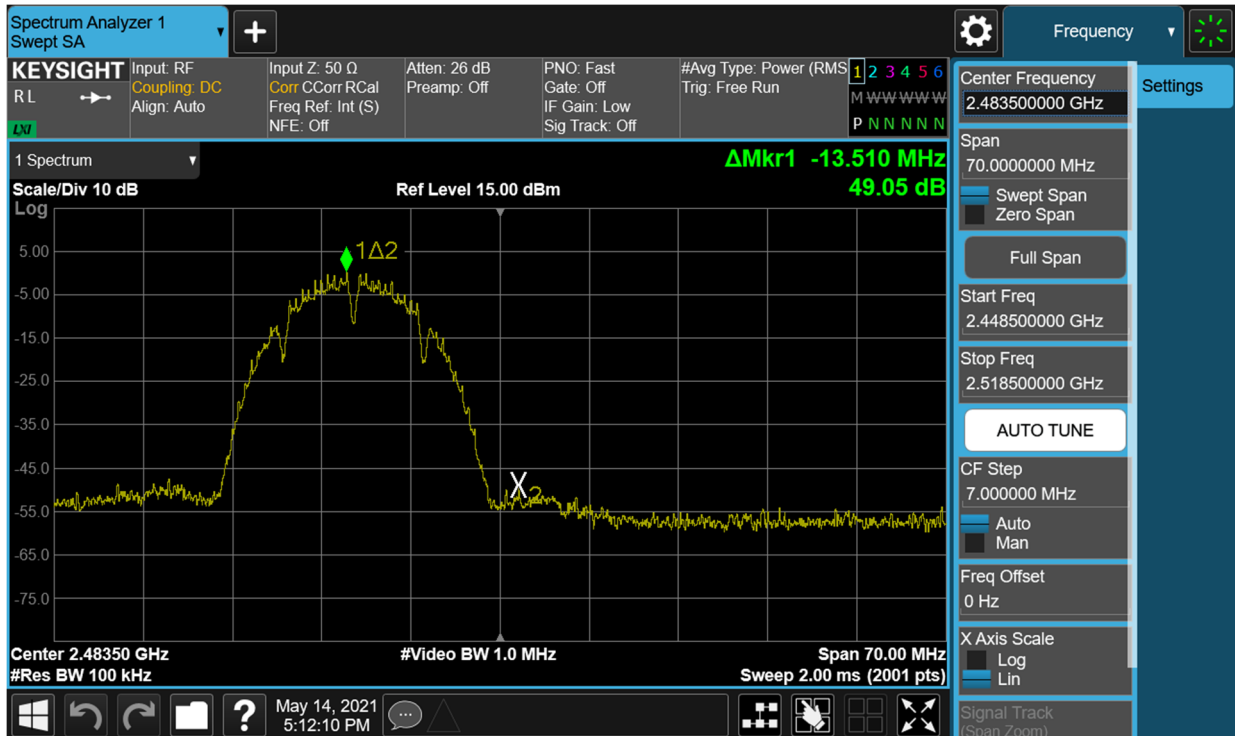
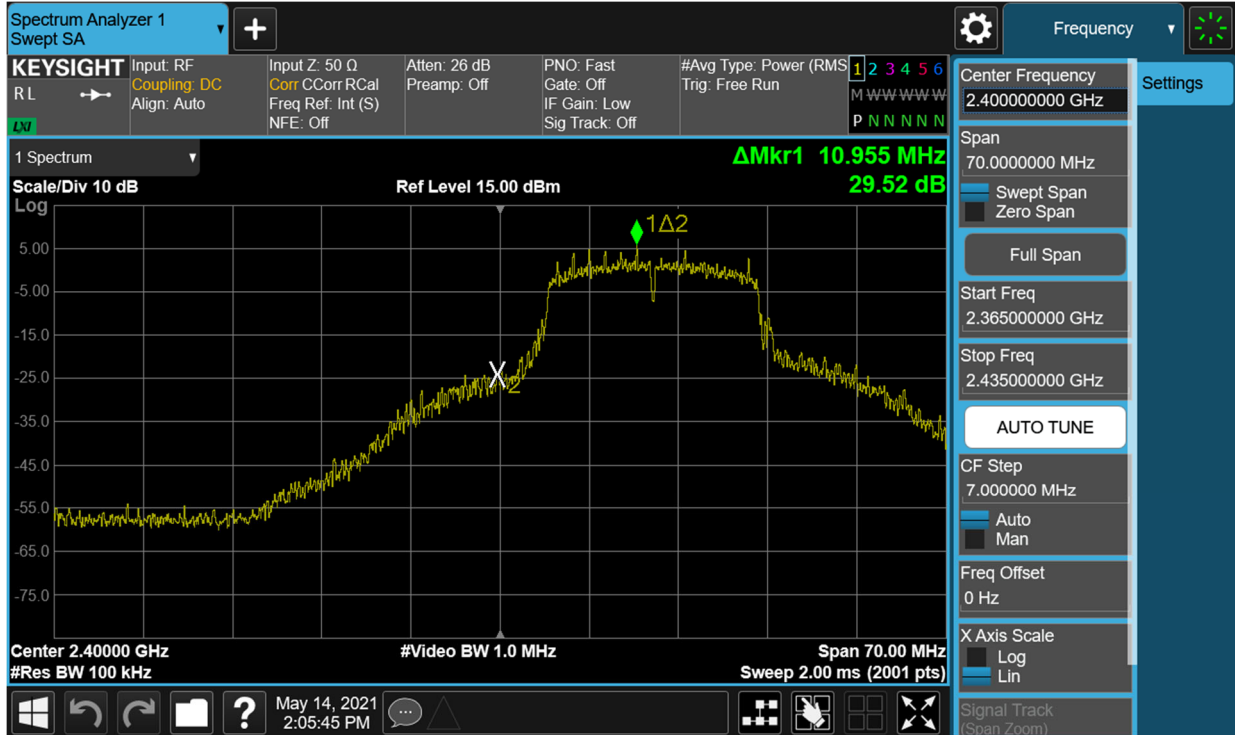


Plot 7-21. Band Edge Plot SISO ANT1 (802.11b – Ch. 12)

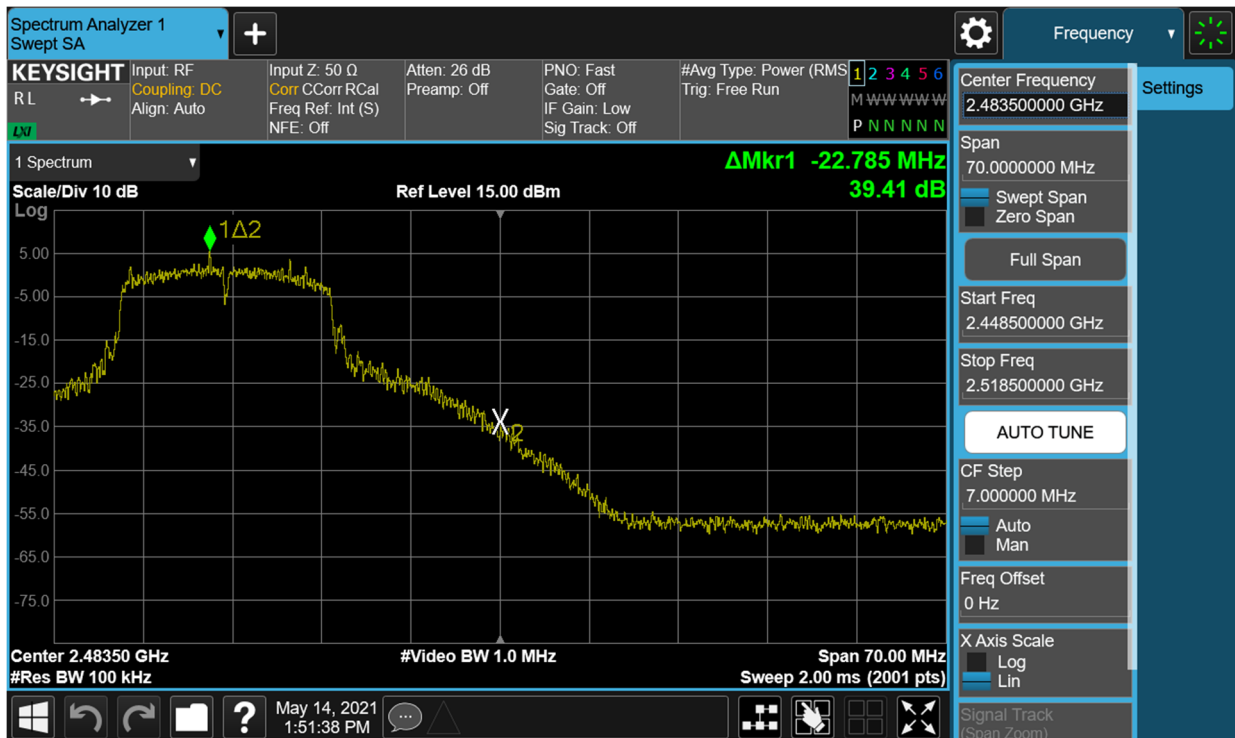


Plot 7-22. Band Edge Plot SISO ANT1 (802.11b – Ch. 13)

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 31 of 56

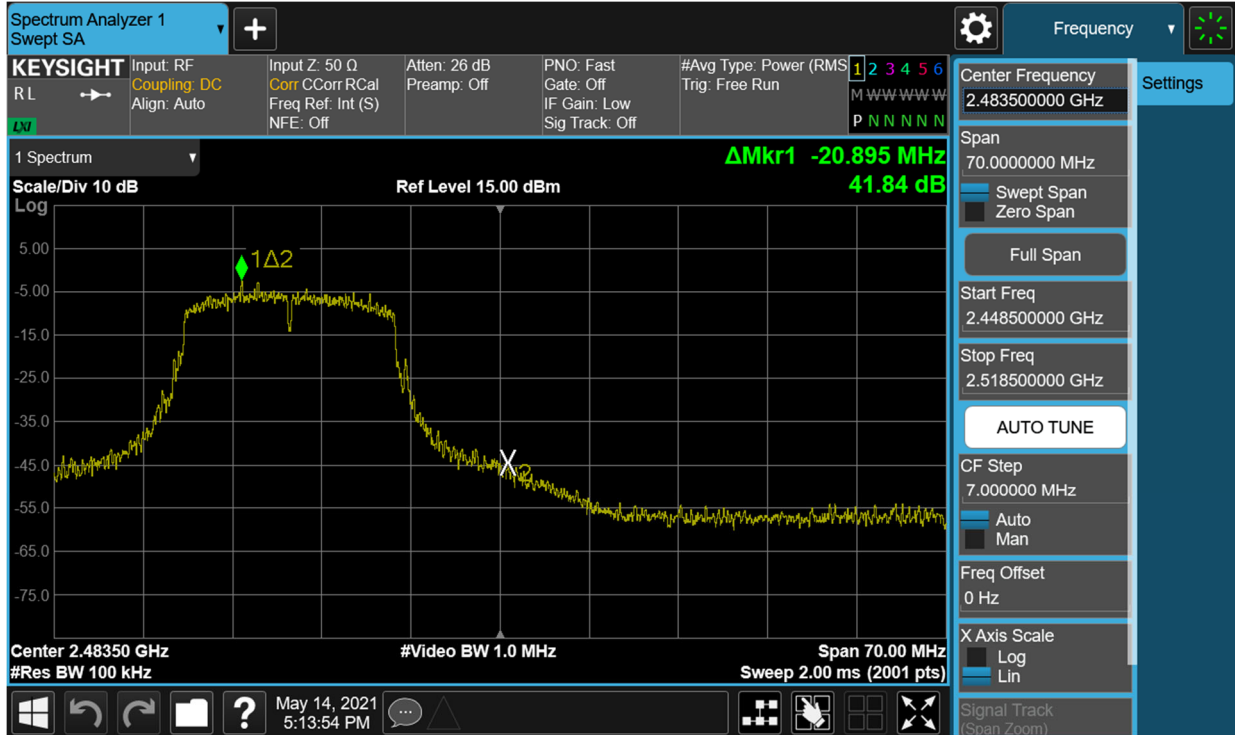


Plot 7-23. Band Edge Plot SISO ANT1 (802.11g- Ch. 1)



Plot 7-24. Band Edge Plot SISO ANT1 (802.11g - 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 32 of 56

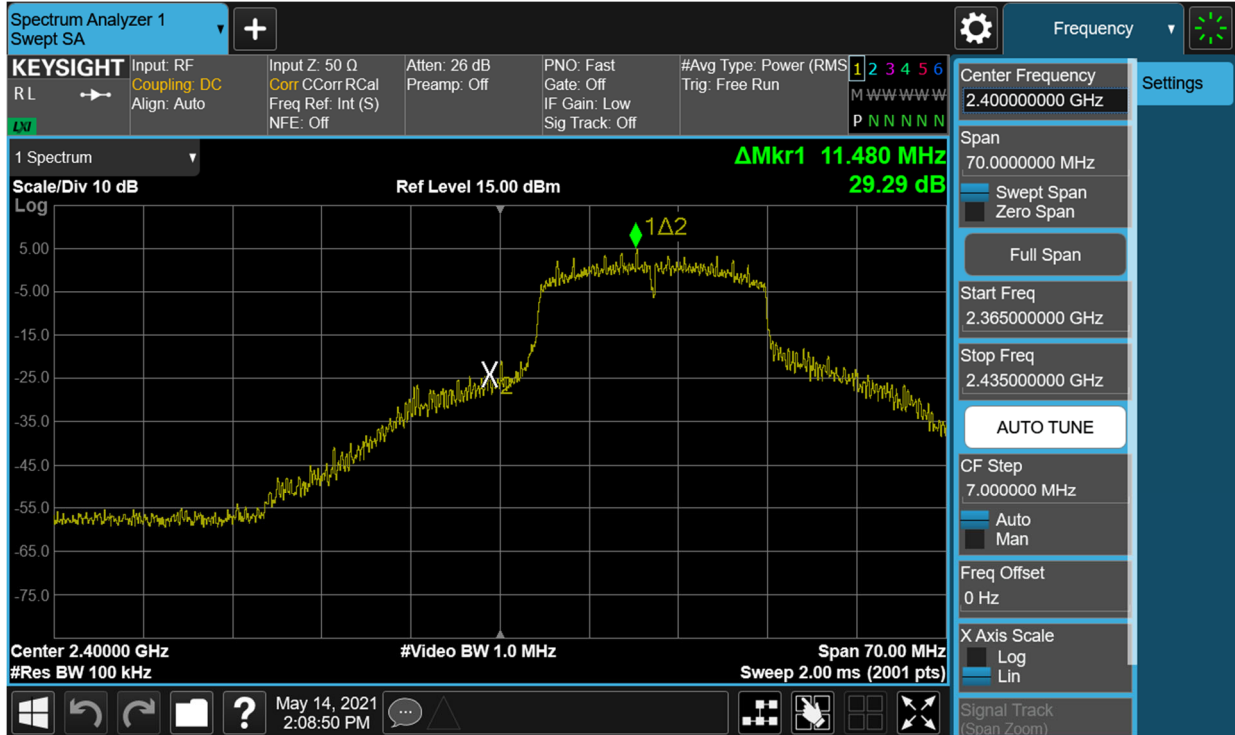


Plot 7-25. Band Edge Plot SISO ANT1 (802.11g – Ch. 12)



Plot 7-26. Band Edge Plot SISO ANT1 (802.11g – Ch. 13)

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 33 of 56

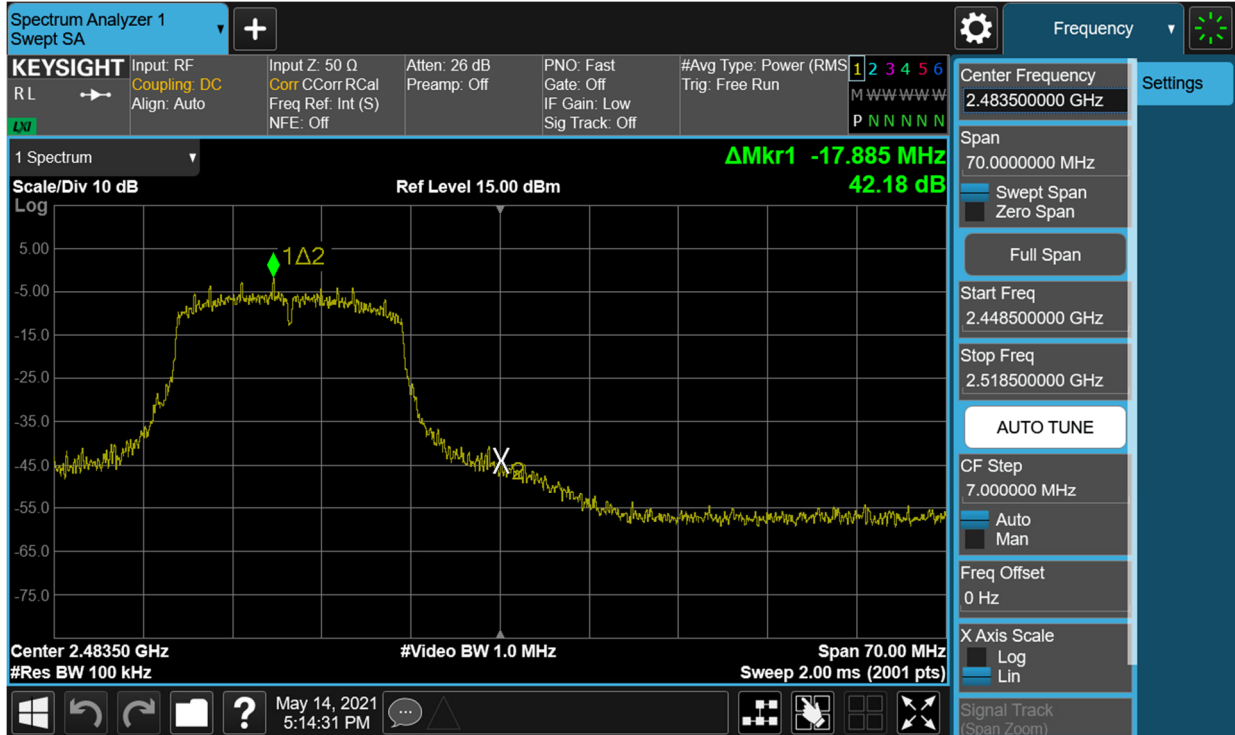


Plot 7-27. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 1)

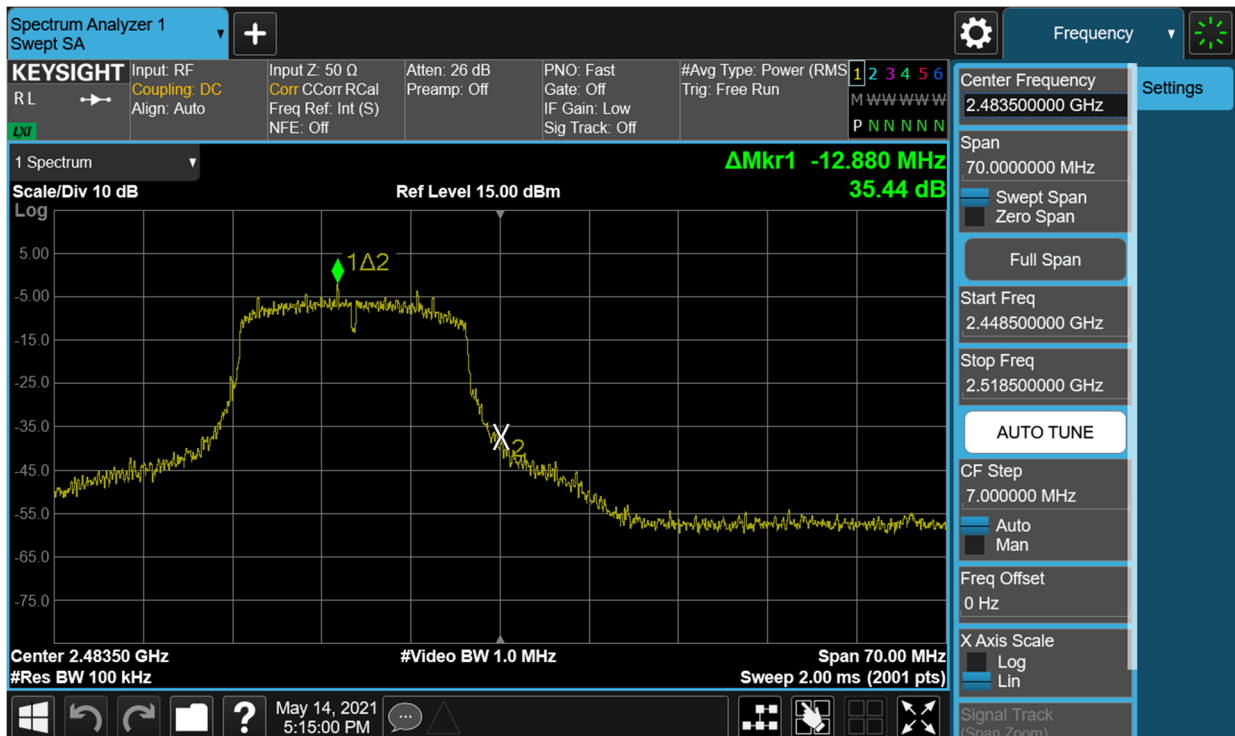


Plot 7-28. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 11)

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 34 of 56



Plot 7-29. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 12)



Plot 7-30. Band Edge Plot SISO ANT1 (802.11n (2.4GHz) – Ch. 13)

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 35 of 56

7.6 Conducted Spurious Emissions

§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, the EUT was investigated in all available data rates for “b”, “g”, “n”, “ax” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below.

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 procedure in Section 11.1 of ANSI C63.10-2013 and KDB 558074 D01 v05.

Test Procedure Used

ANSI C63.10-2013 – Section 11.11.3
KDB 558074 D01 v05 – Section 8.5
ANSI C63.10-2013 – Section 14.3.3
KDB 662911 D01 v02r01 – Section E)3)b)

Test Settings



1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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





Figure 7-5. Test Instrument & Measurement Setup

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 36 of 56

Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits. Therefore, in accordance with ANSI C63.10-2013 and KDB 662911 D01 v02r01 Section E)3)b), it was unnecessary to show compliance through the summation of test results of the individual outputs.

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 37 of 56