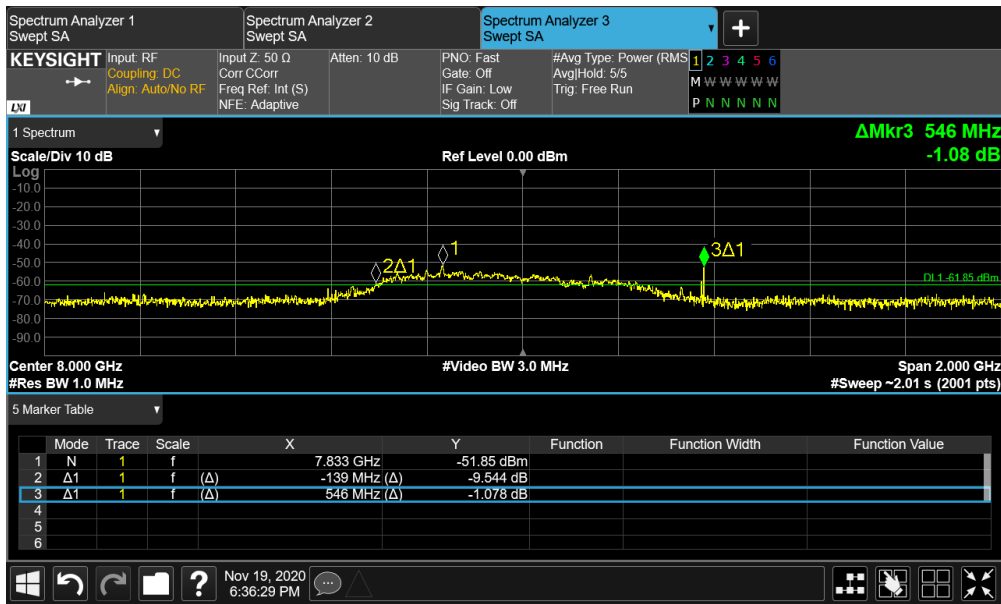
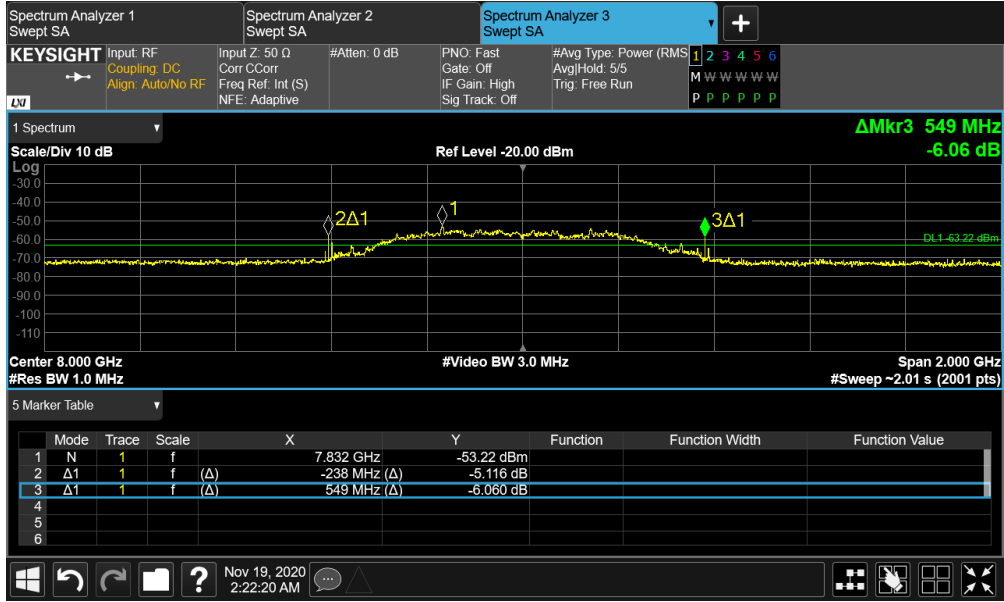


Plot 7-75. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 9

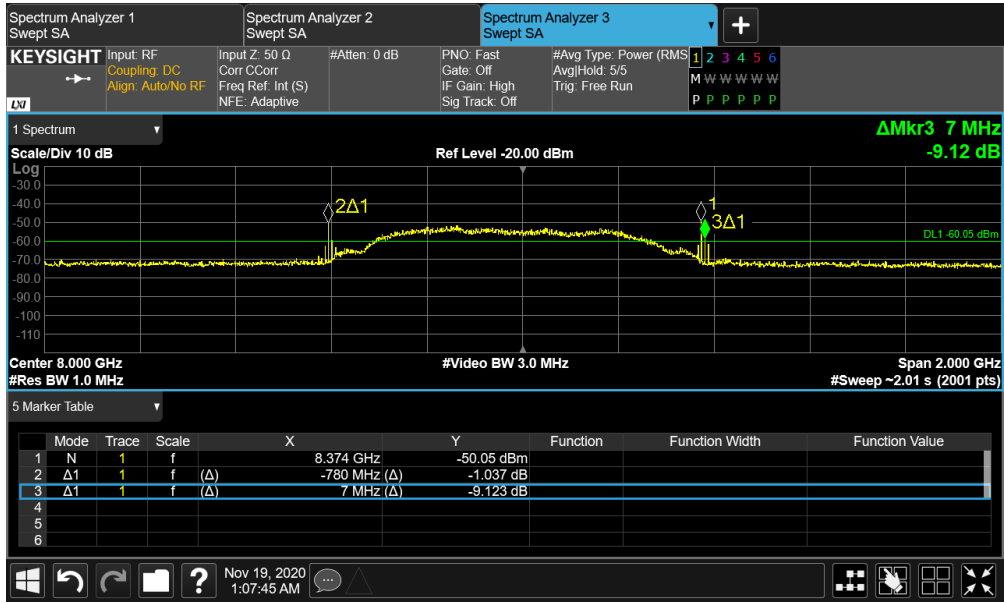


Plot 7-76. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 9

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 51 of 120

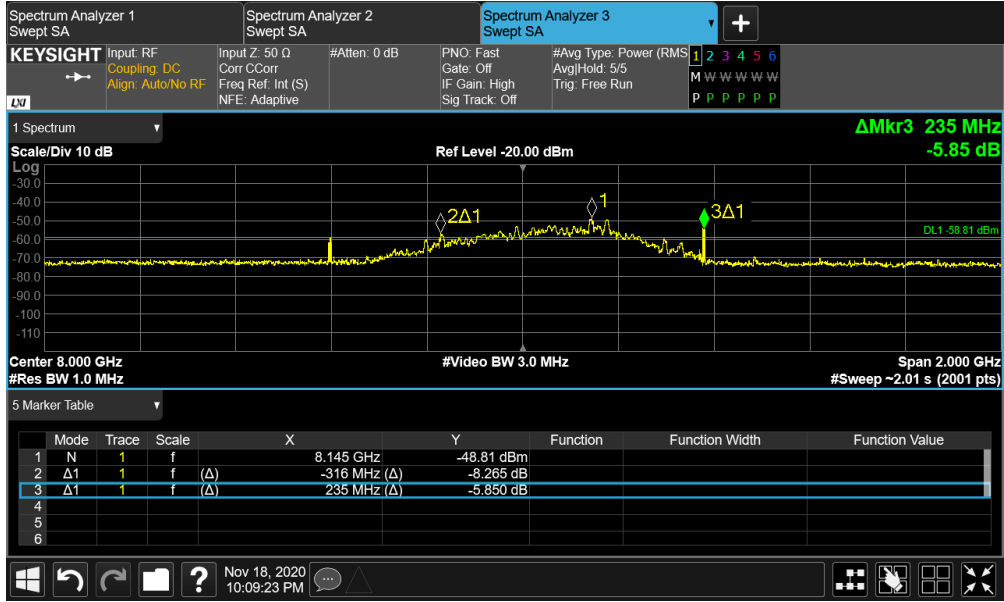


Plot 7-77. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 9

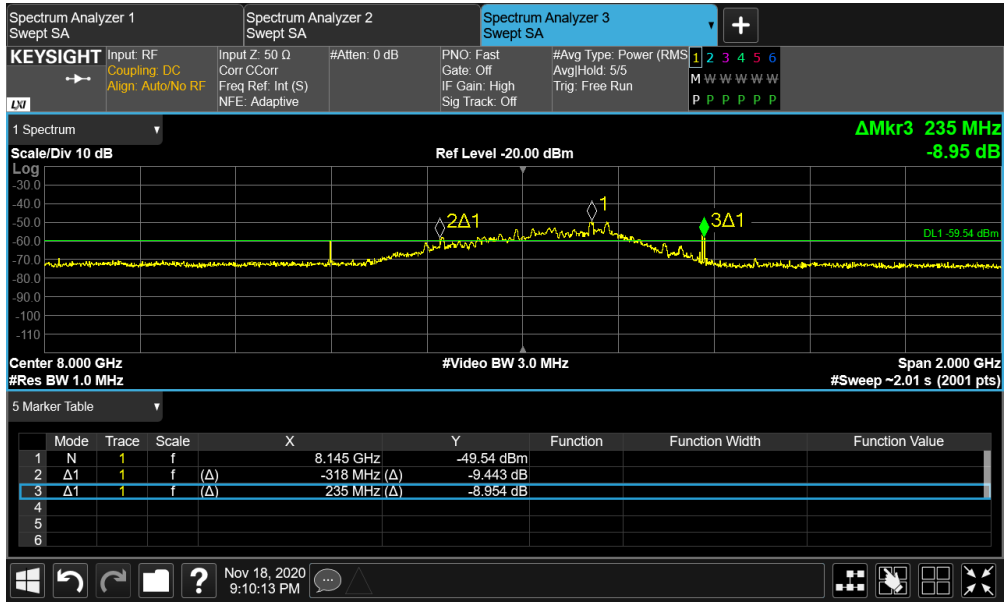


Plot 7-78. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 9

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 52 of 120

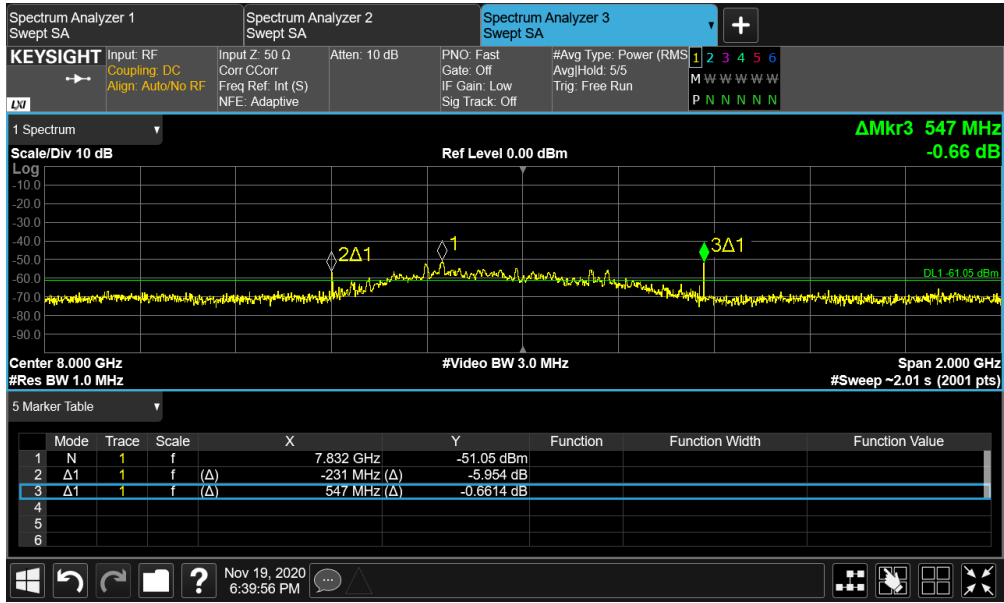
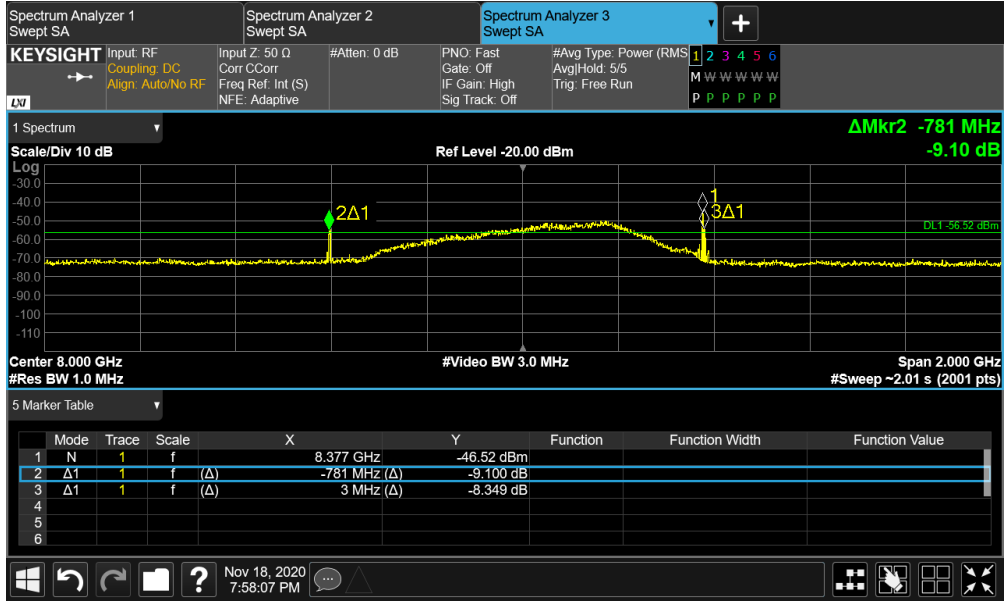


**Plot 7-79. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 10**

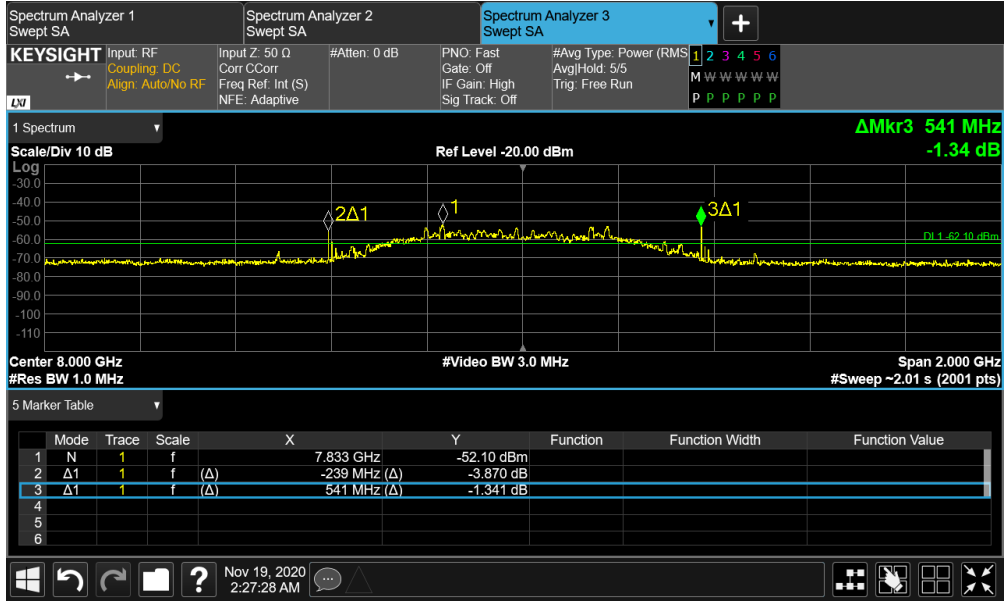


**Plot 7-80. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 10**

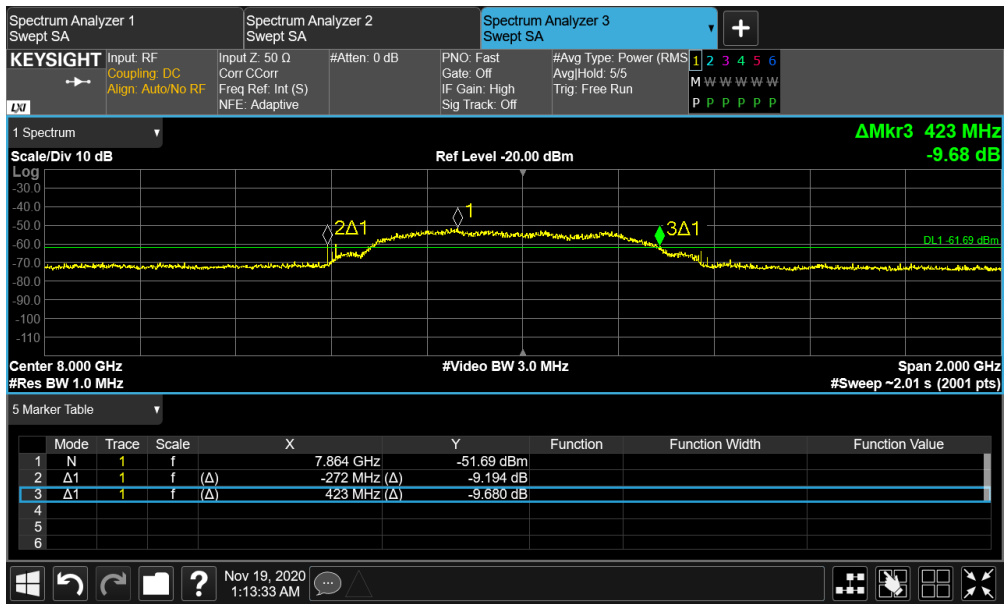
FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 53 of 120



FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 54 of 120

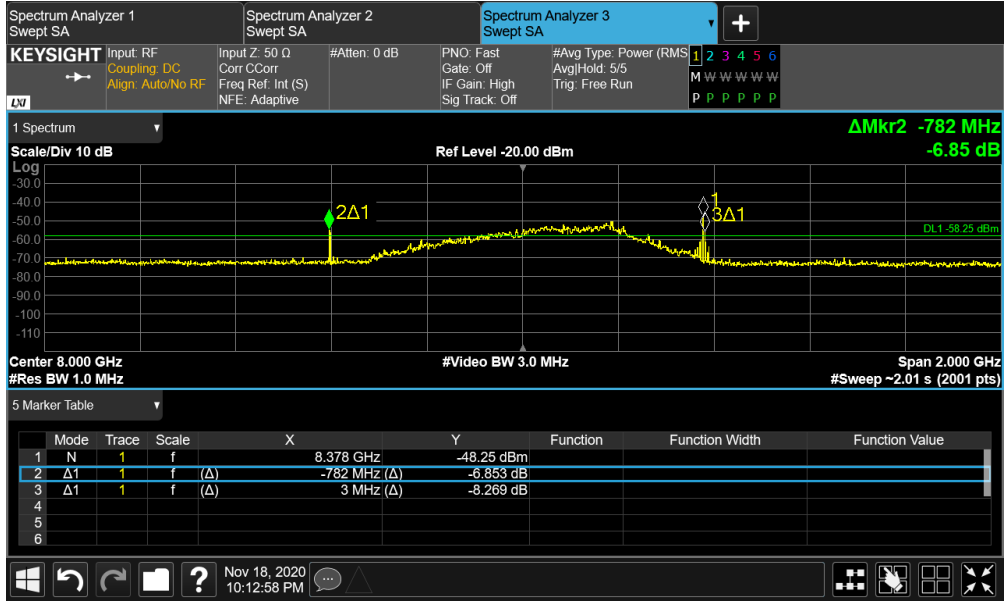


**Plot 7-83. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 10**

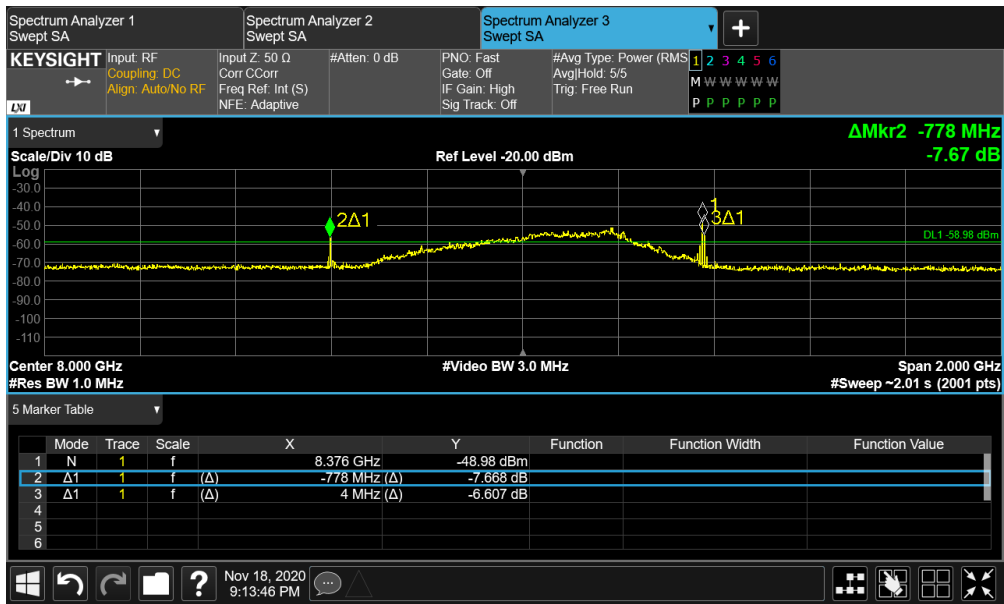


**Plot 7-84. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 10**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 55 of 120

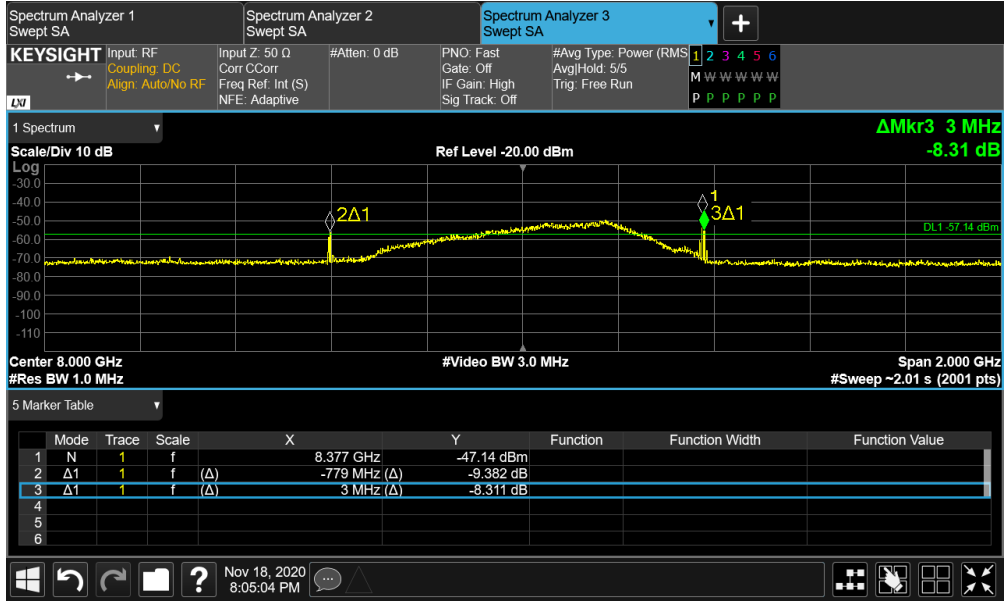


Plot 7-85. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 11

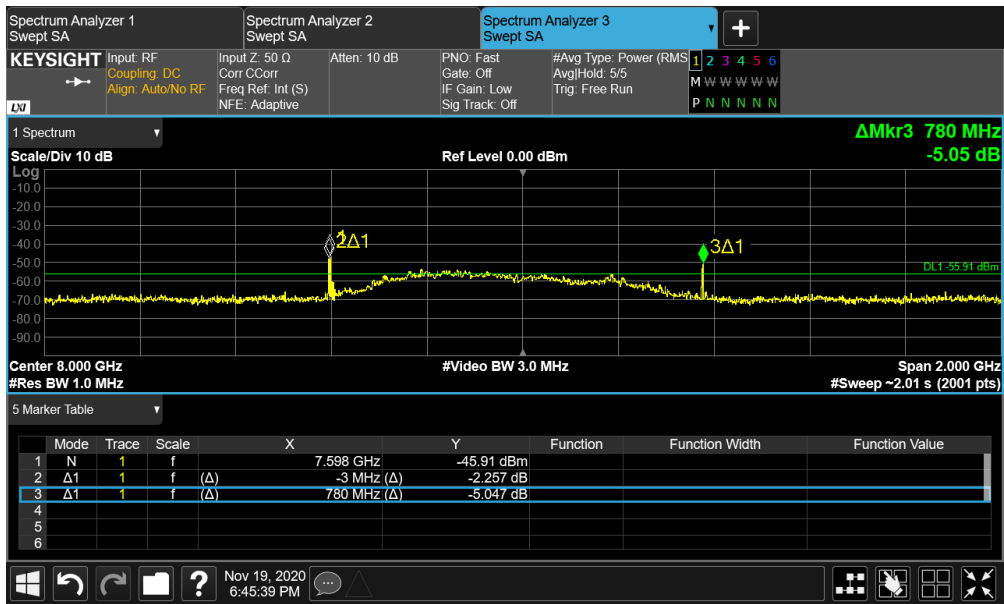


Plot 7-86. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 11

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 56 of 120

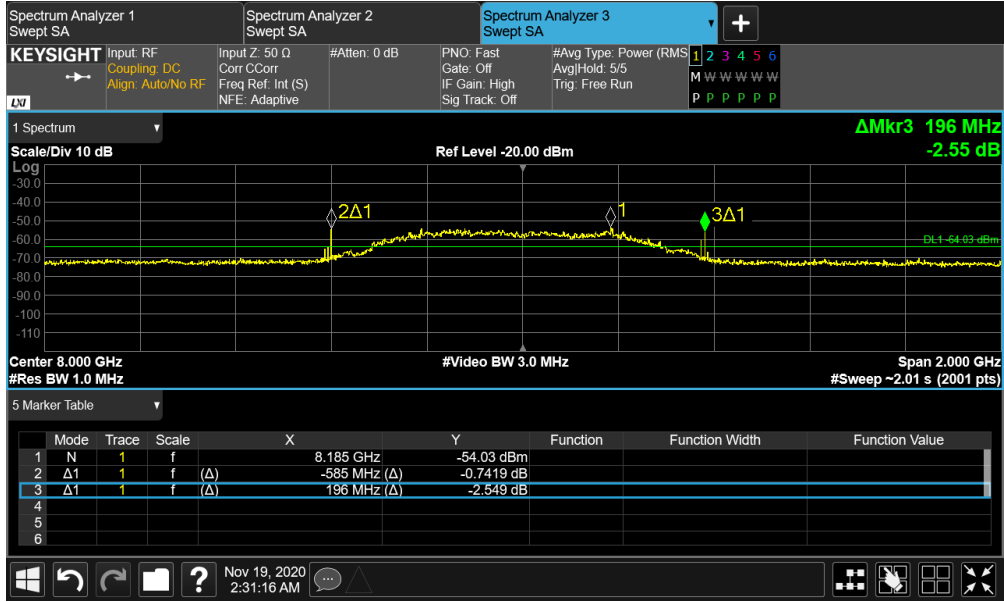


Plot 7-87. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 11

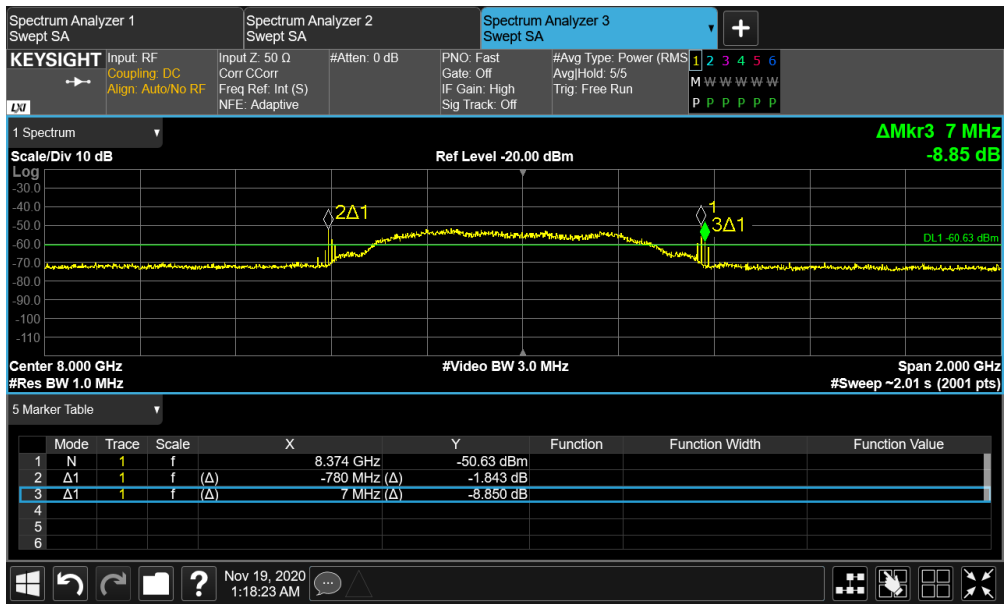


Plot 7-88. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 11

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 57 of 120



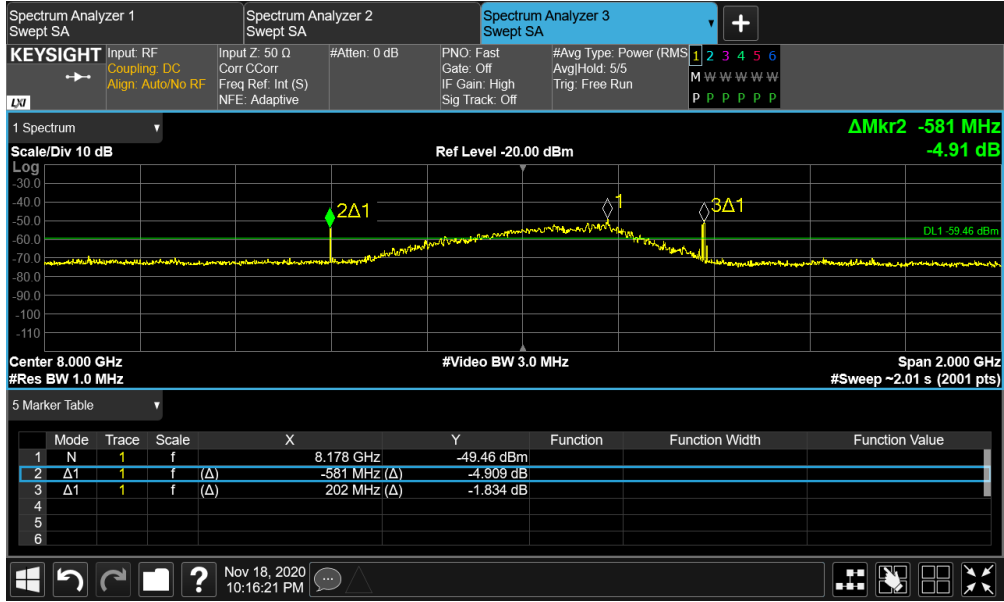
Plot 7-89. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 11



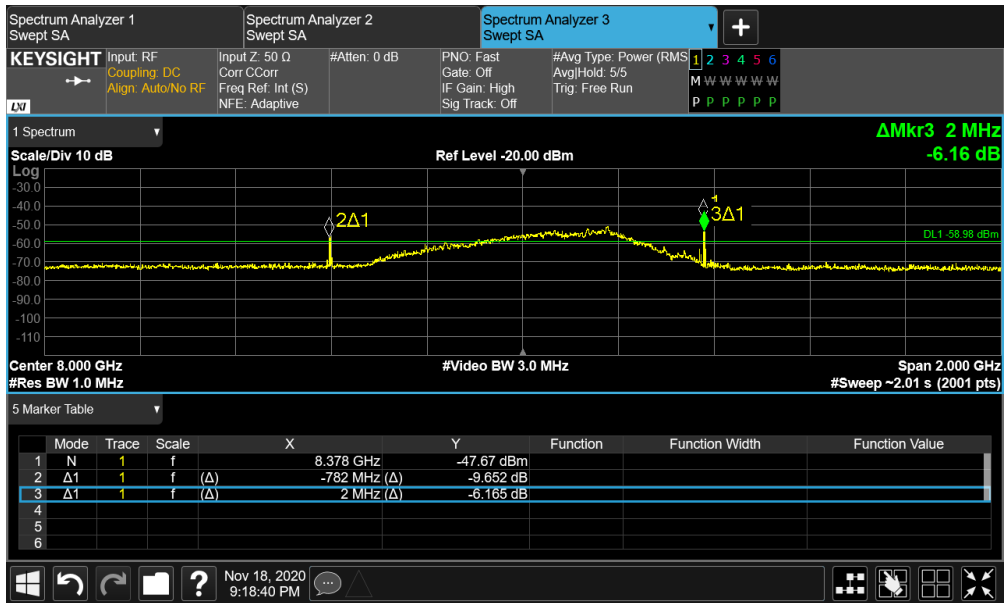
Plot 7-90. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 11

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 58 of 120



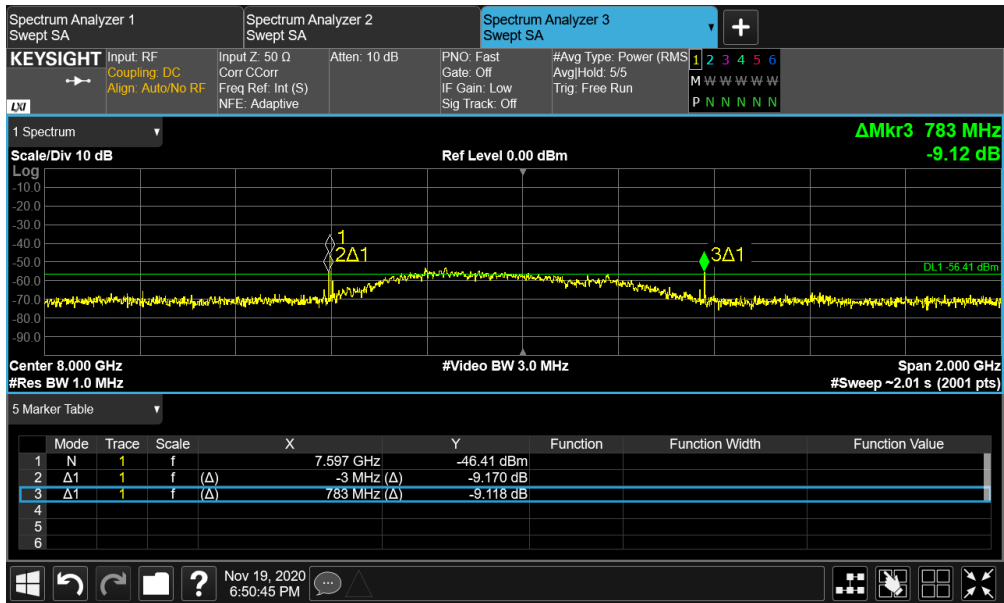
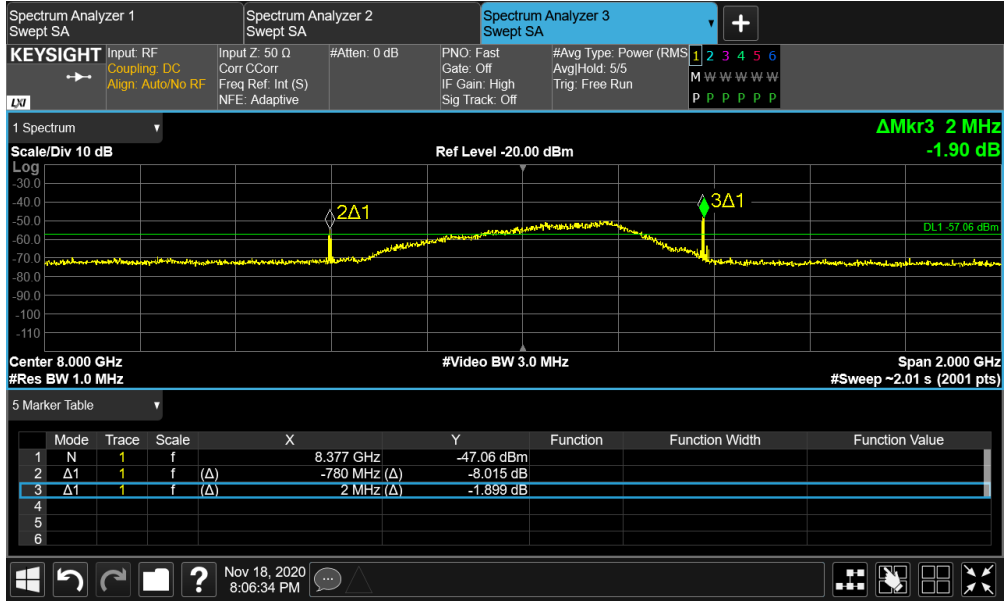


Plot 7-91. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 12

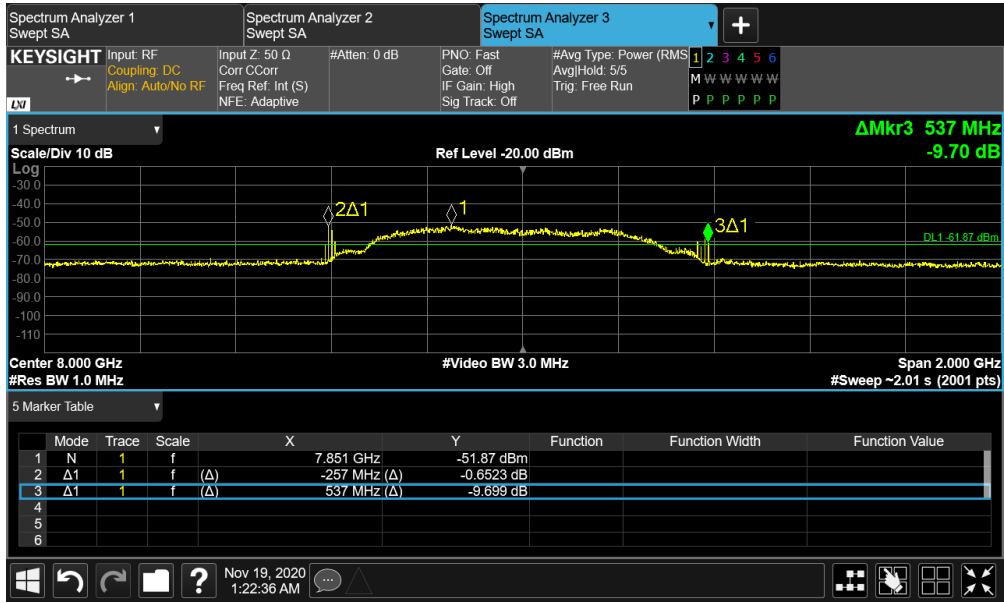
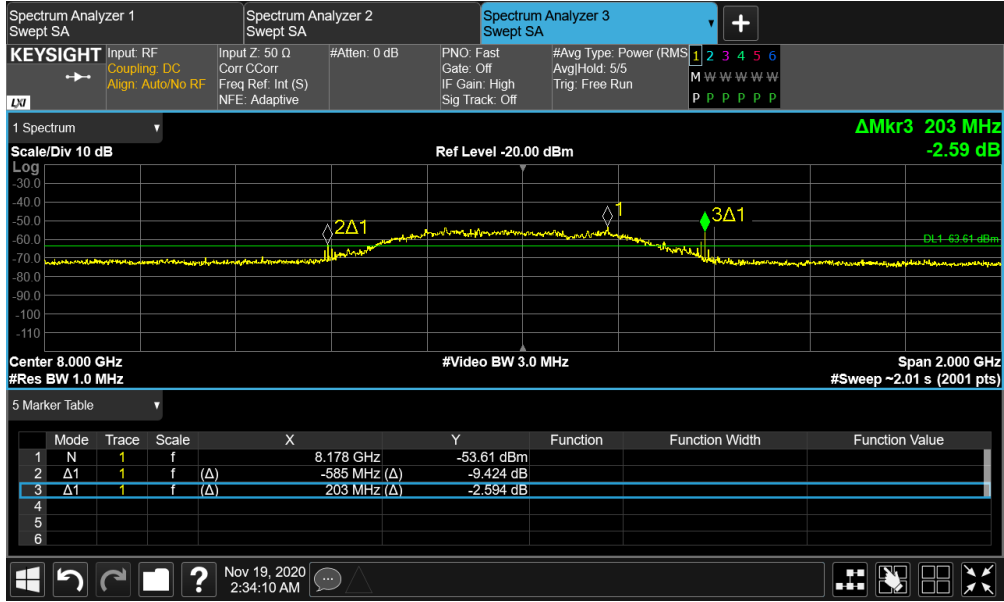


Plot 7-92. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 12

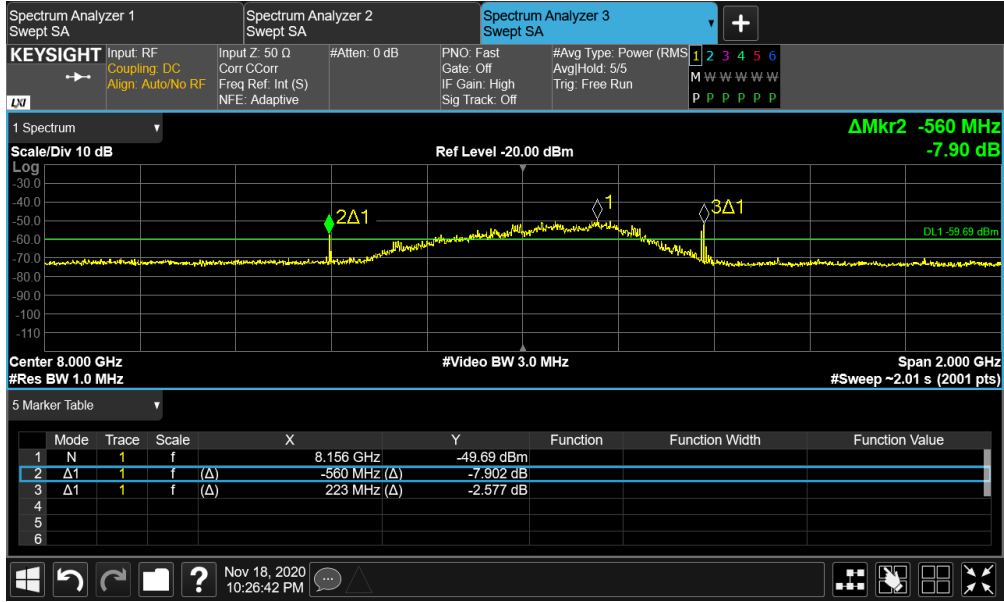
FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 59 of 120



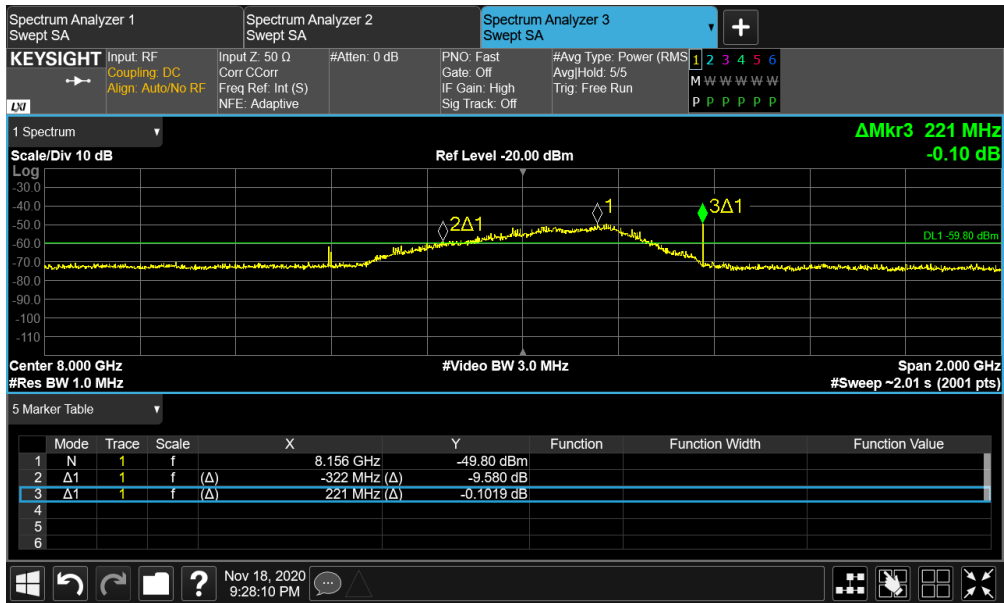
FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 60 of 120



FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 61 of 120

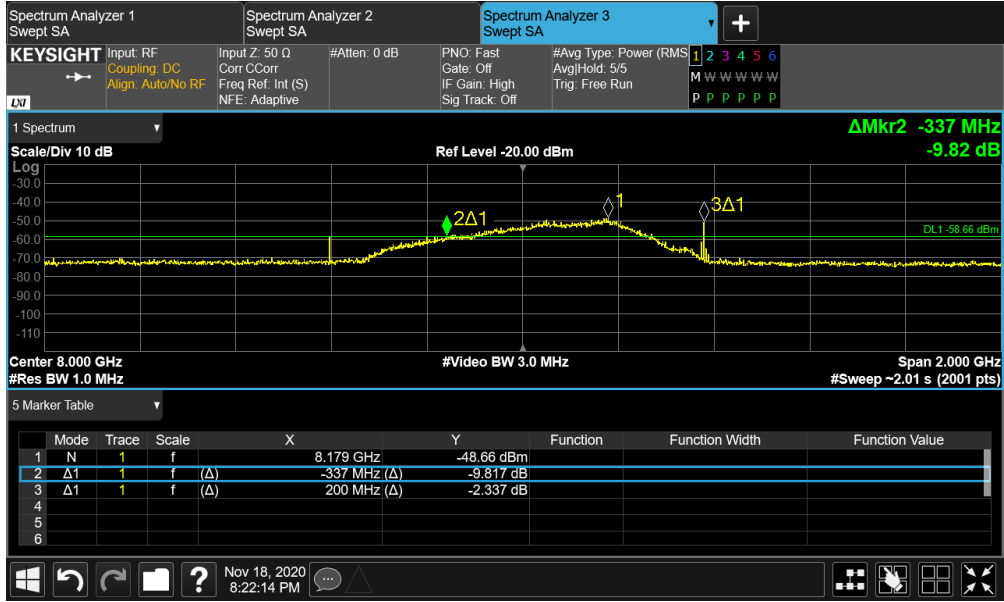


Plot 7-97. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 25

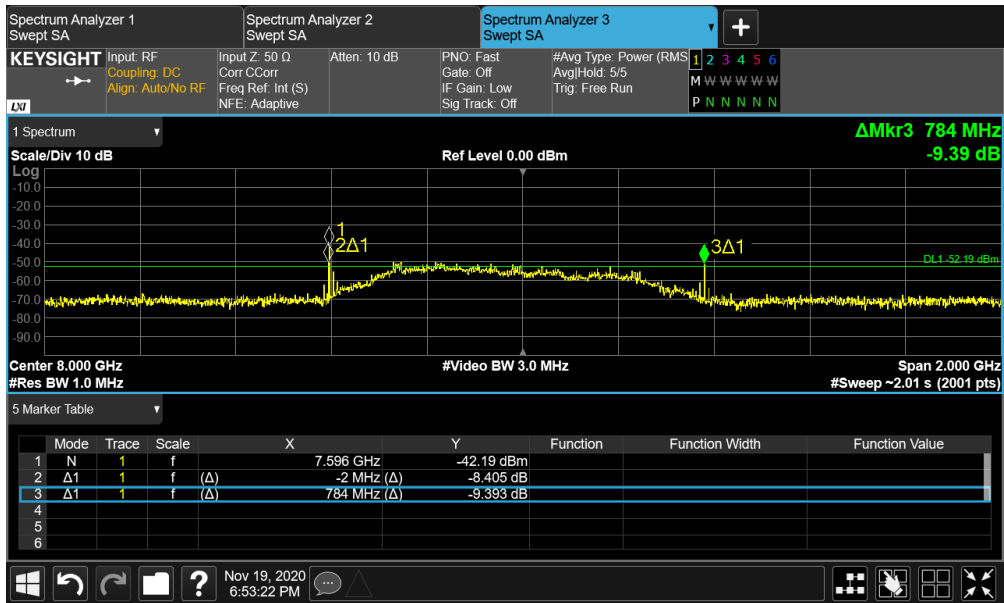


Plot 7-98. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 25

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 62 of 120

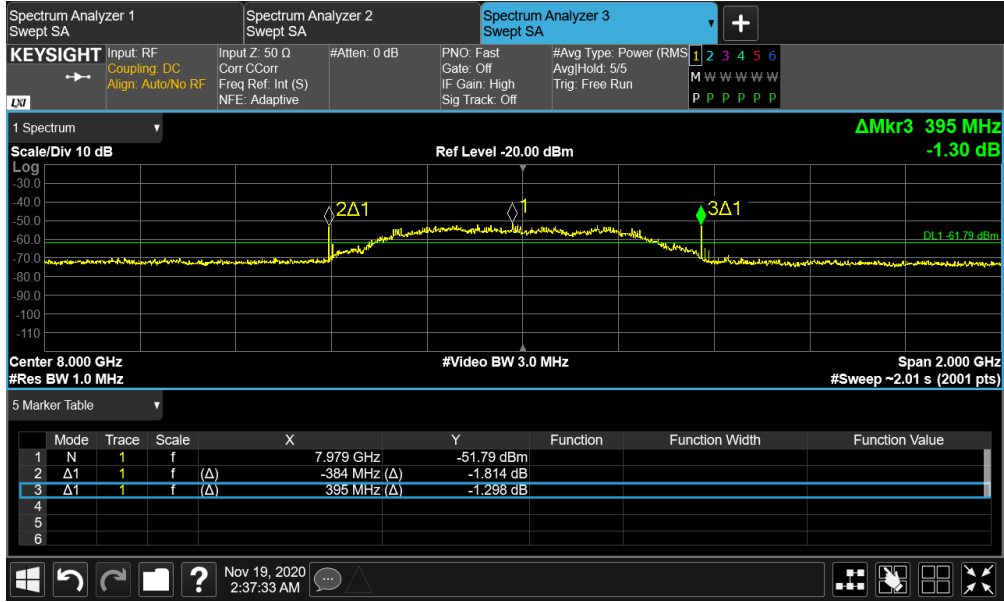


Plot 7-99. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 25

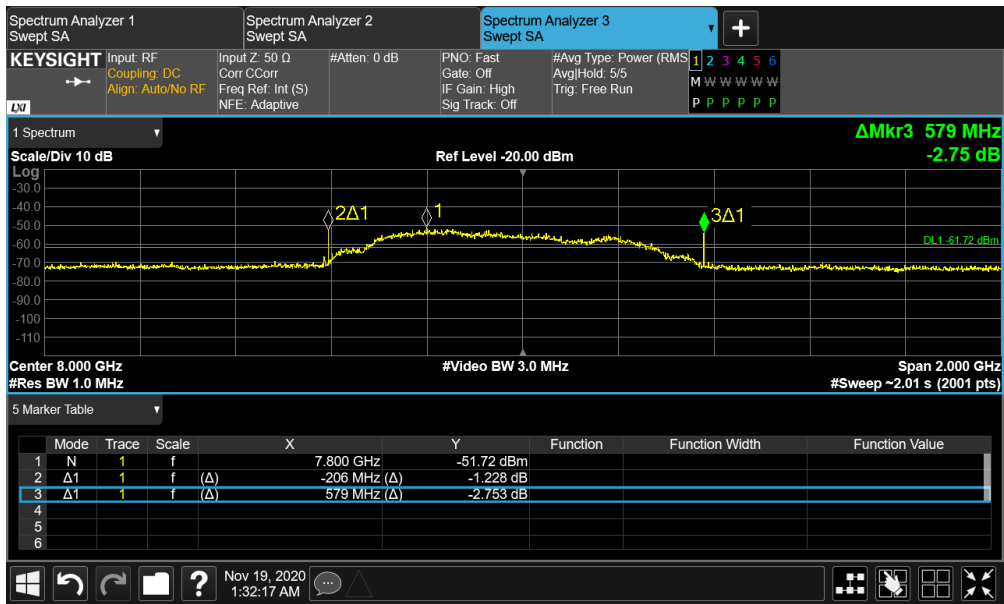


Plot 7-100. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 25

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 63 of 120

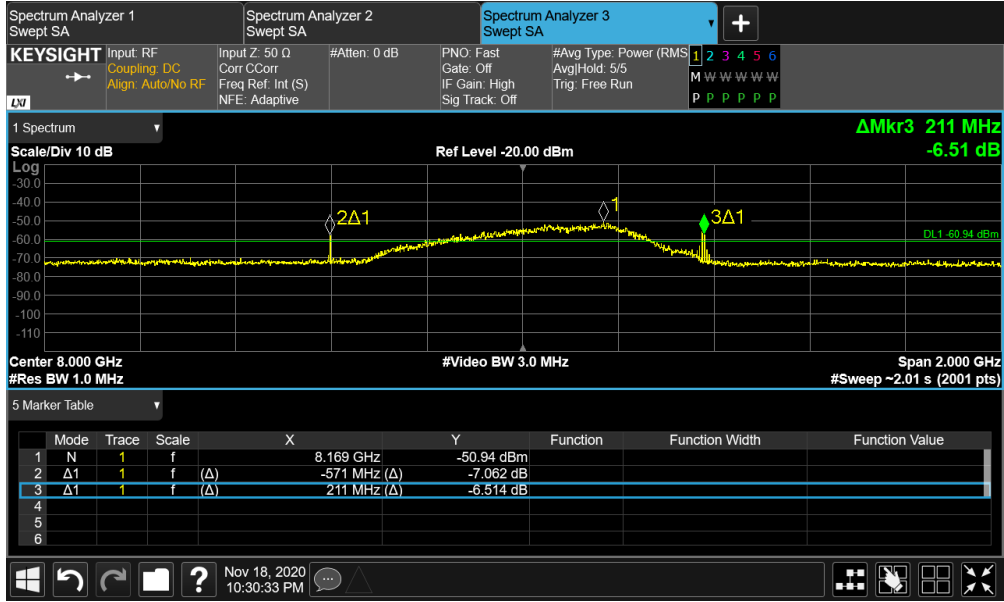


**Plot 7-101. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 25**

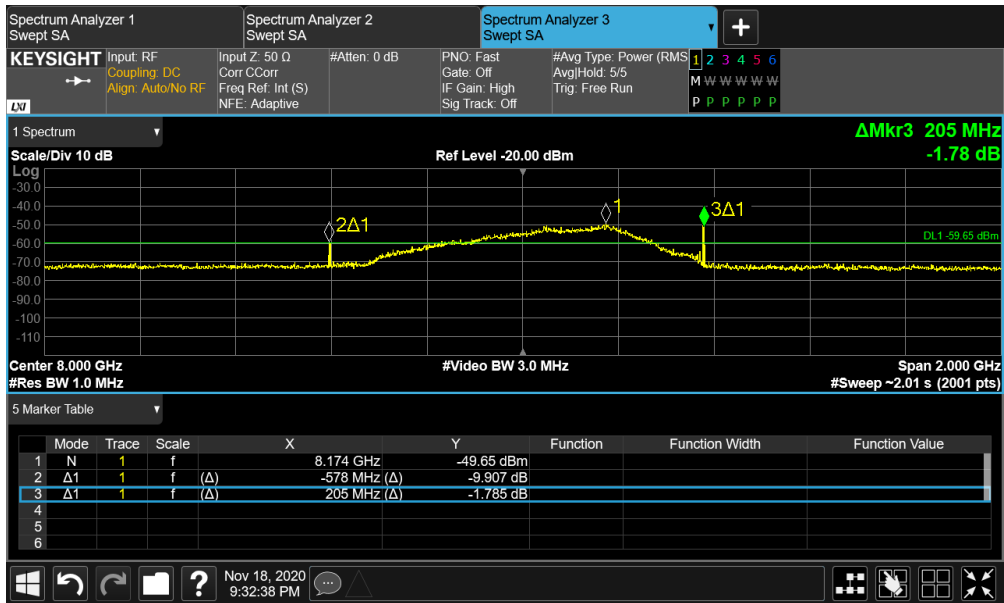


**Plot 7-102. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 25**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 64 of 120

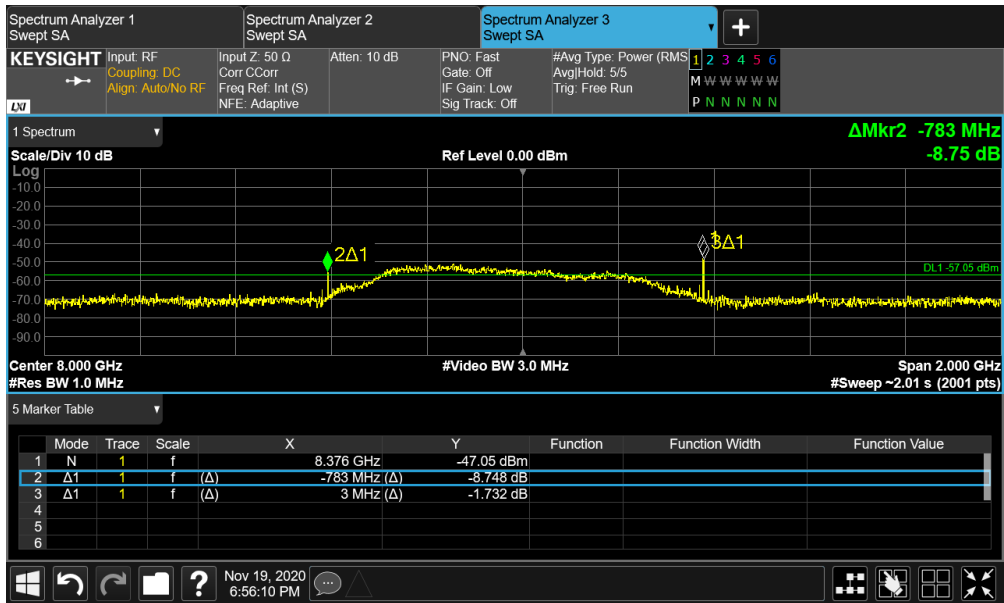
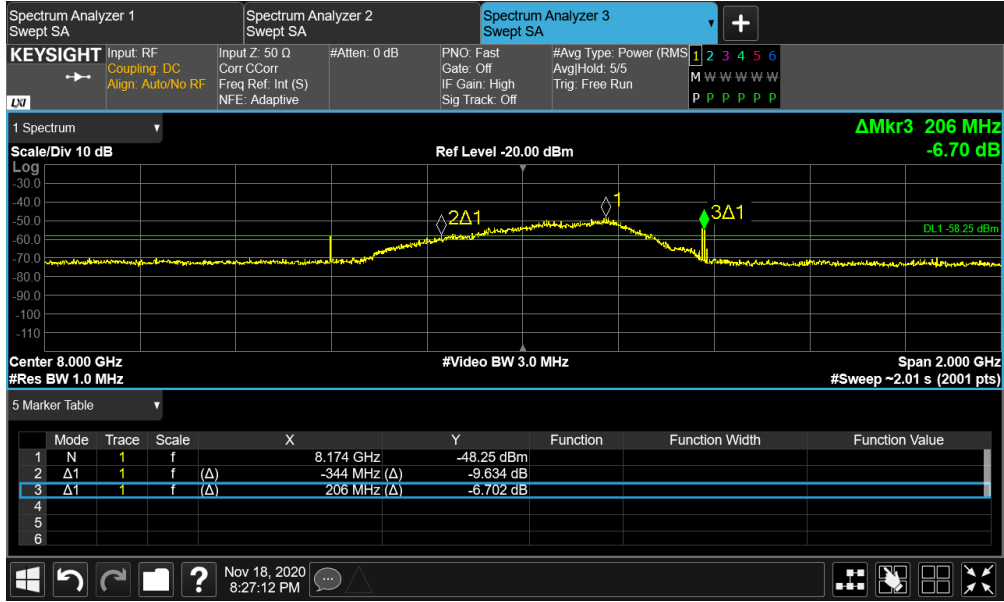


Plot 7-103. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 26



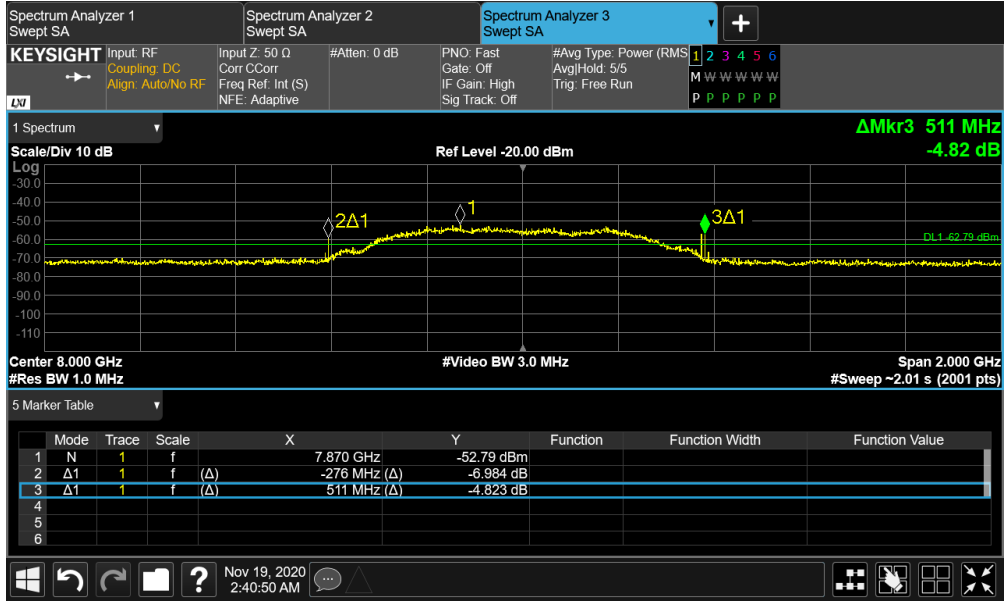
Plot 7-104. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 26

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 65 of 120

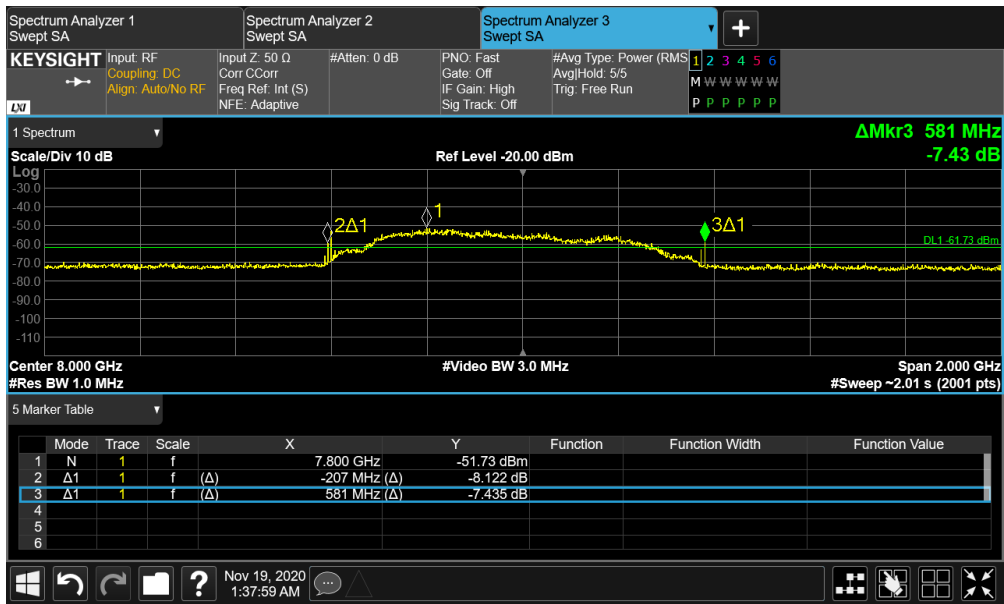


FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 66 of 120



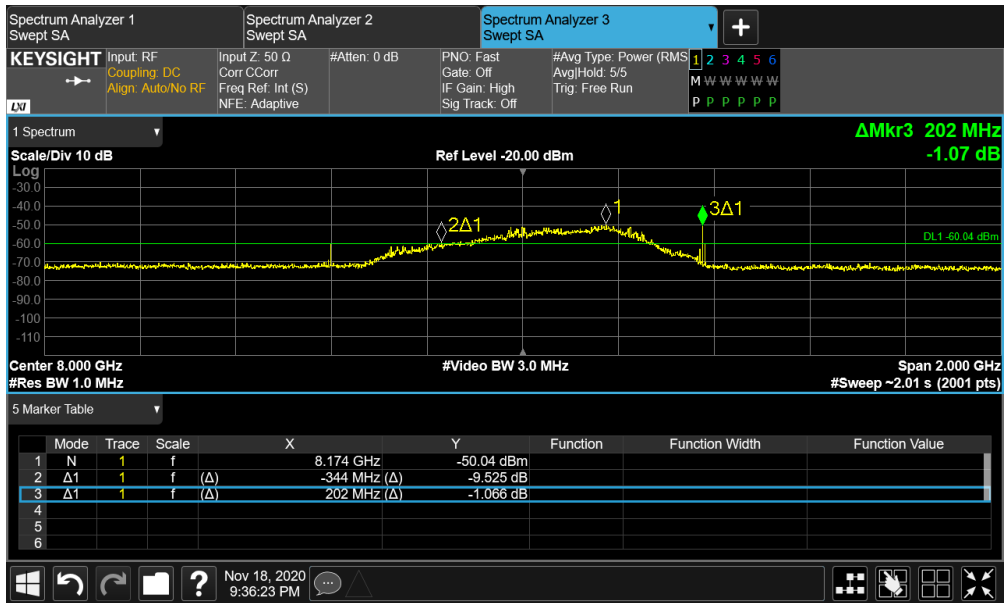
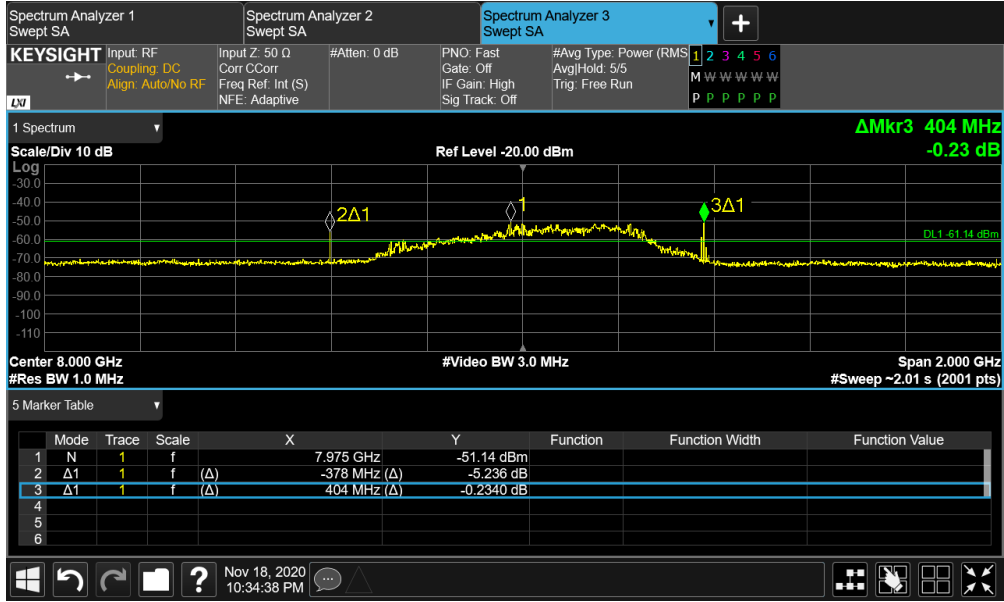


Plot 7-107. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 26

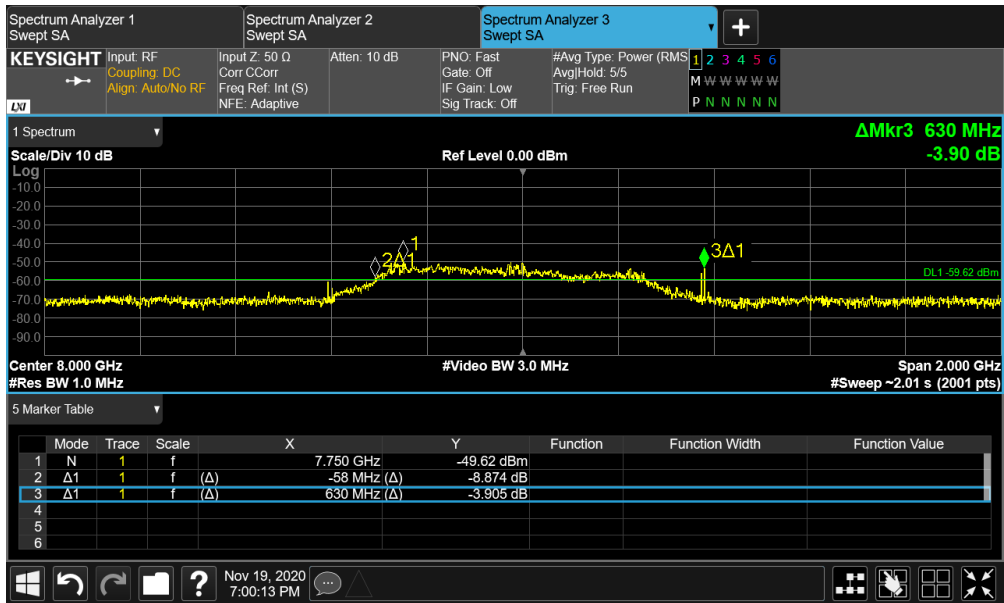
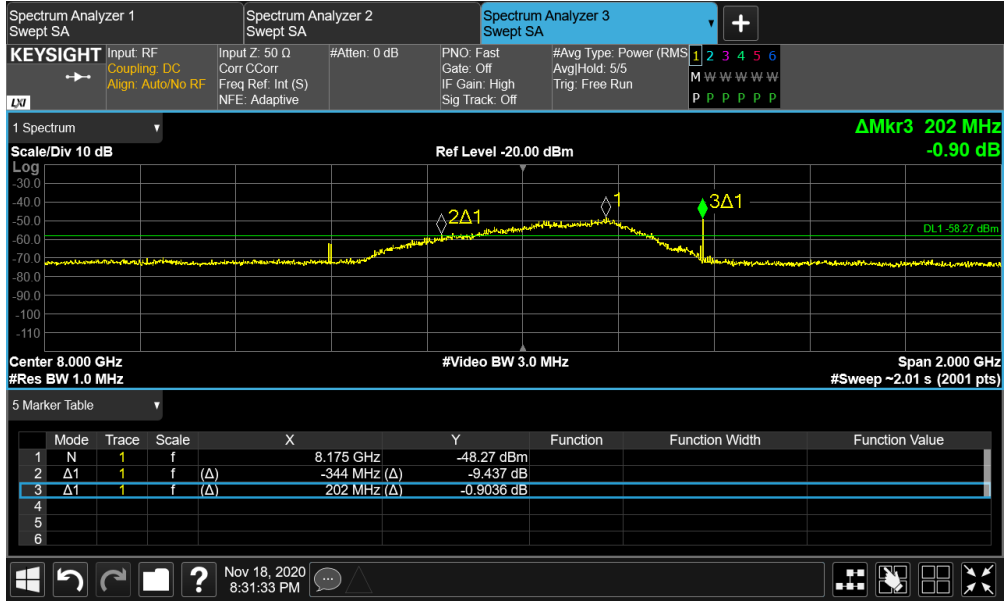


Plot 7-108. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 26

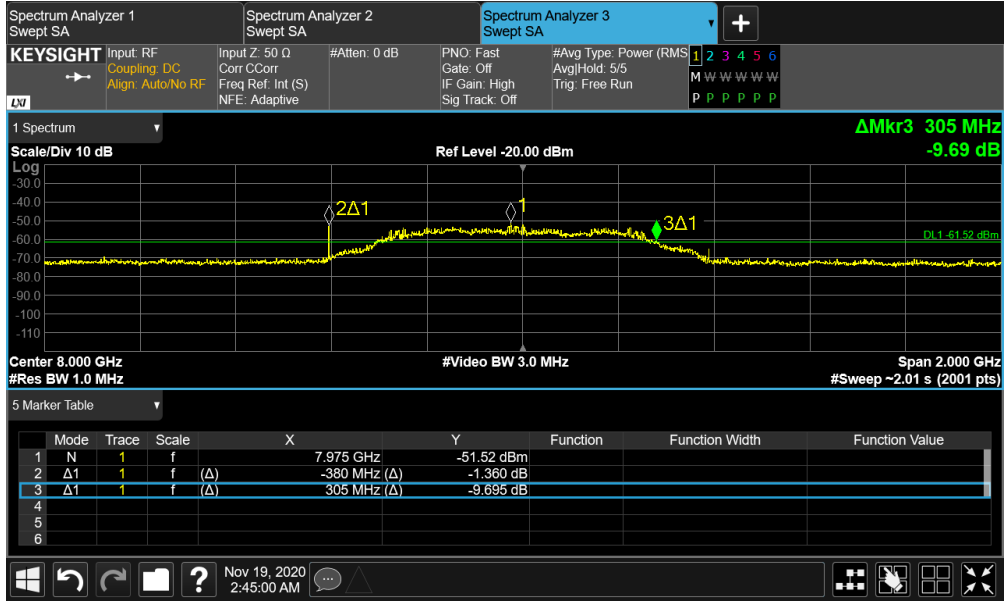
FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 67 of 120



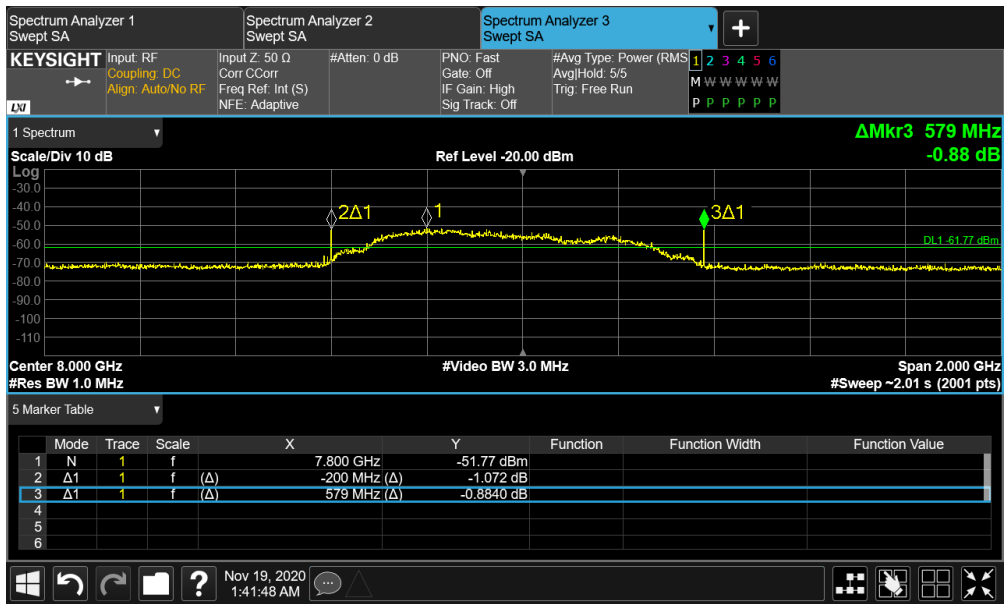
FCC ID: A3LSMG998B	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 68 of 120



FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 69 of 120

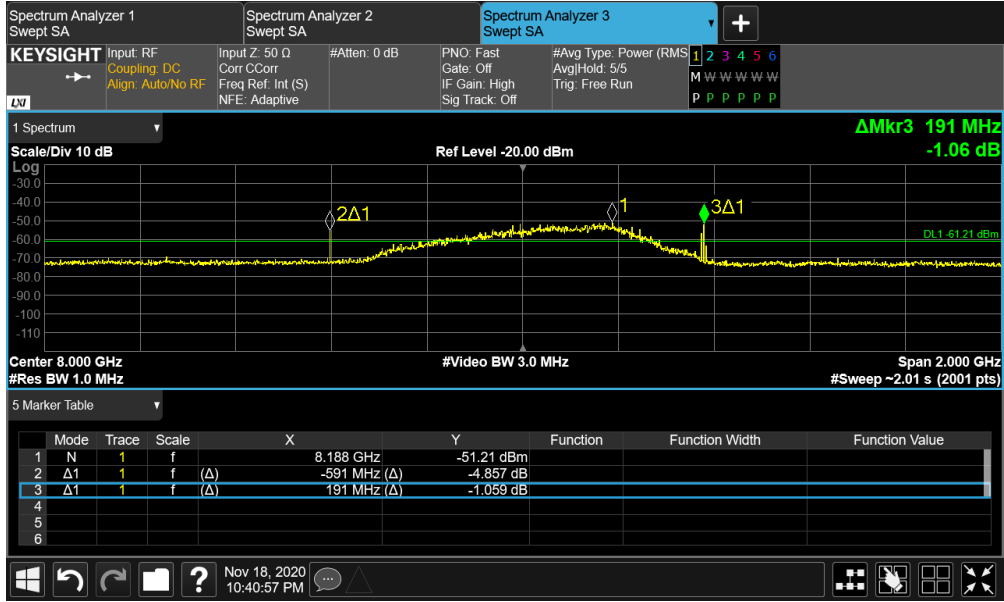


Plot 7-113. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 27

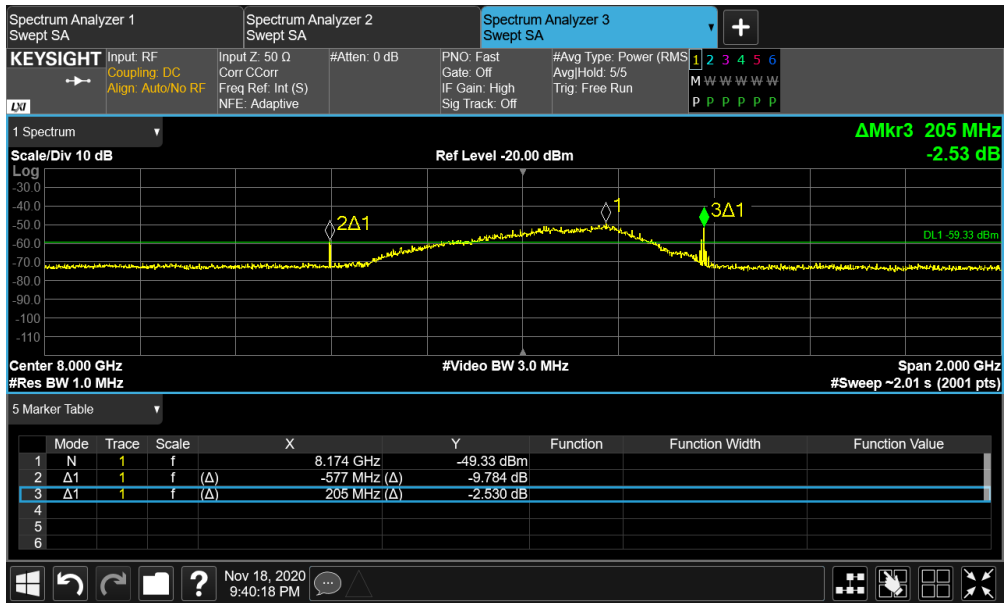


Plot 7-114. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 27

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 70 of 120

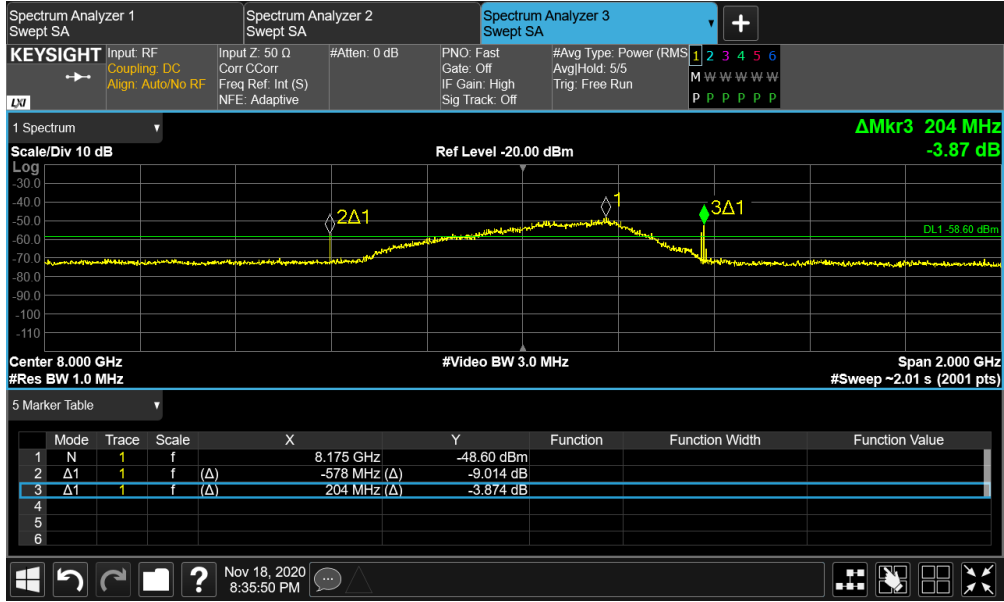


**Plot 7-115. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 28**

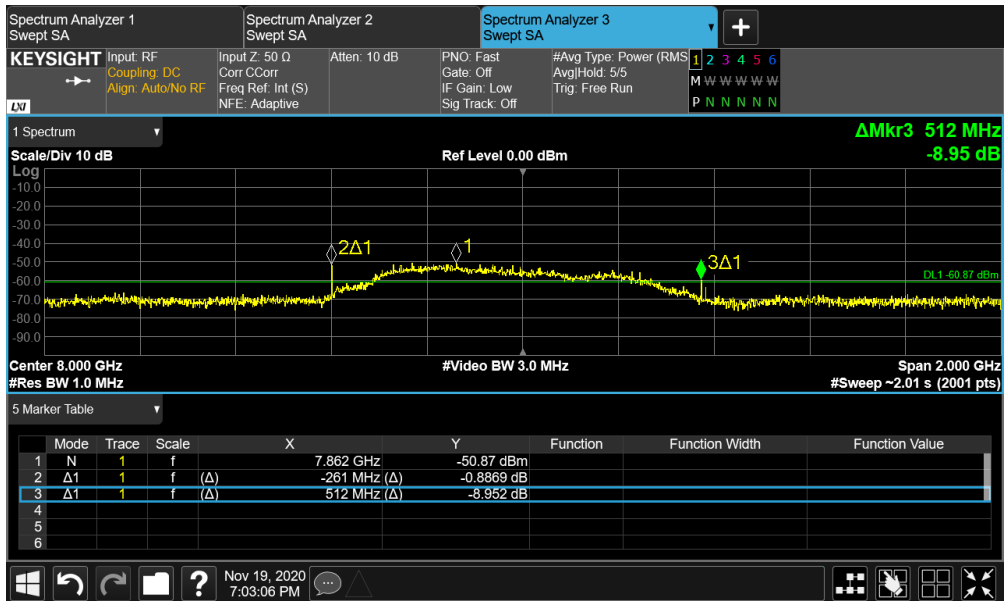


**Plot 7-116. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 28**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 71 of 120

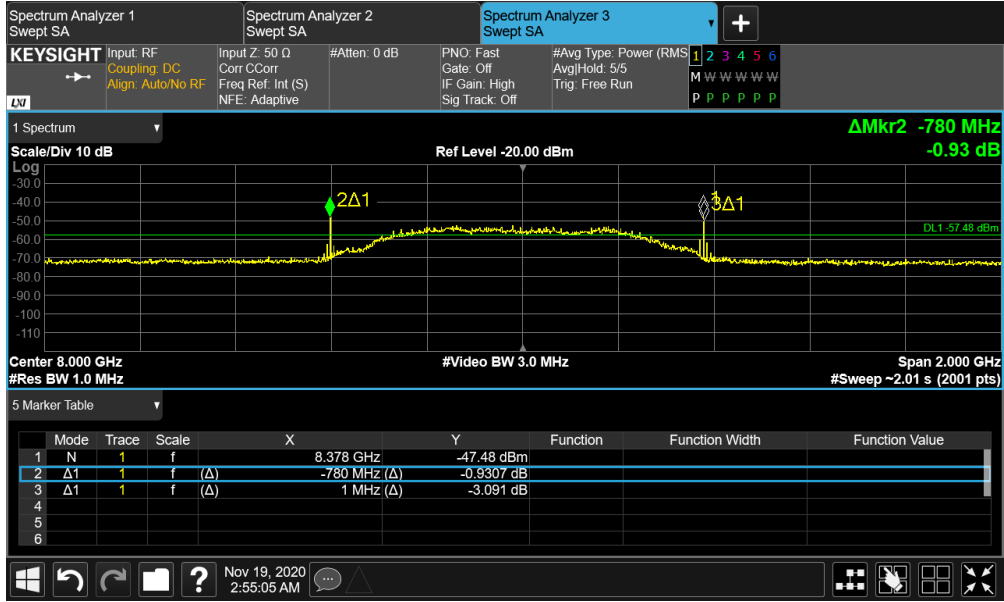


Plot 7-117. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 28

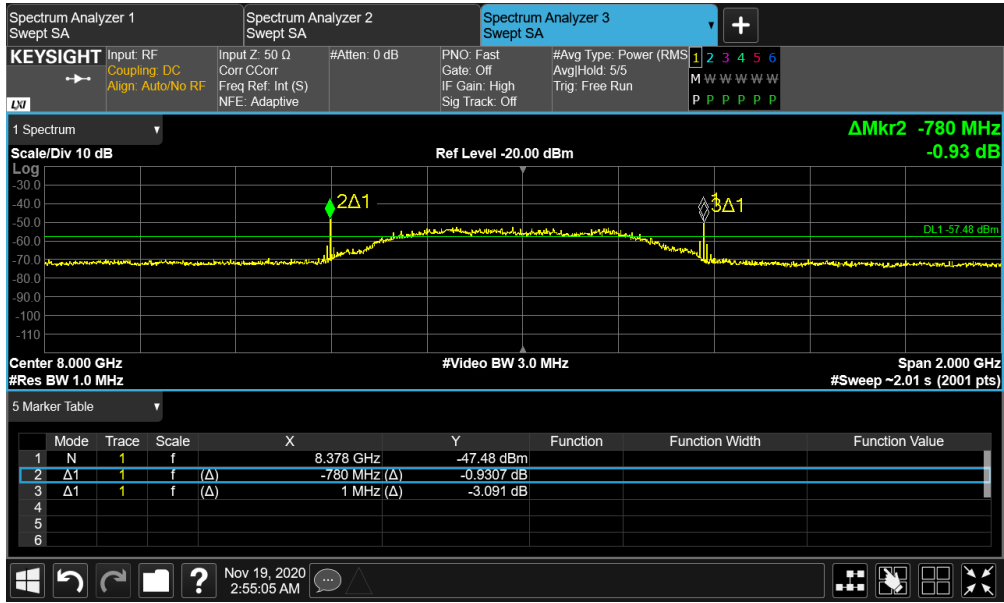


Plot 7-118. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 28

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 72 of 120

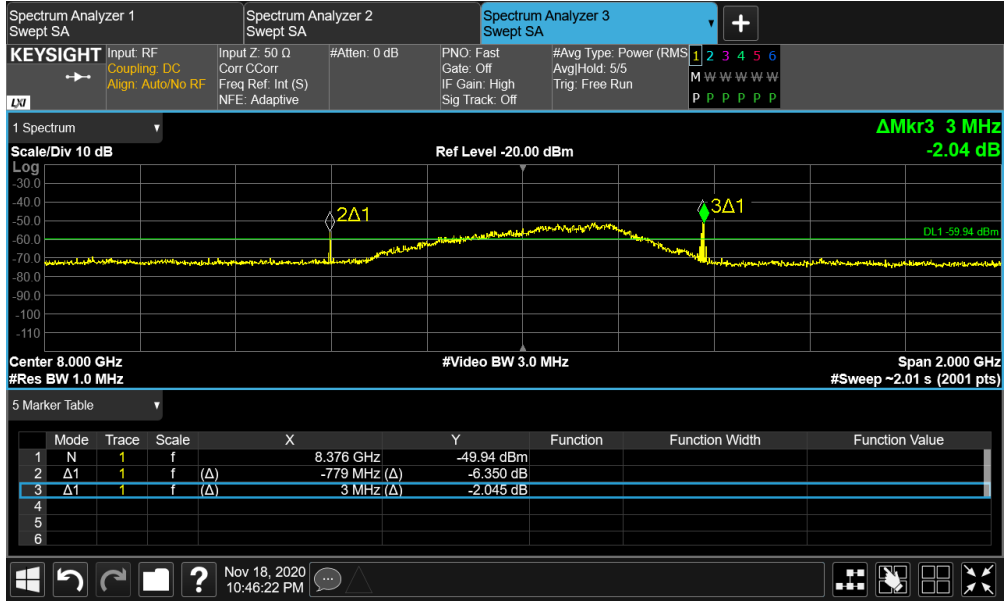


Plot 7-119. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 28

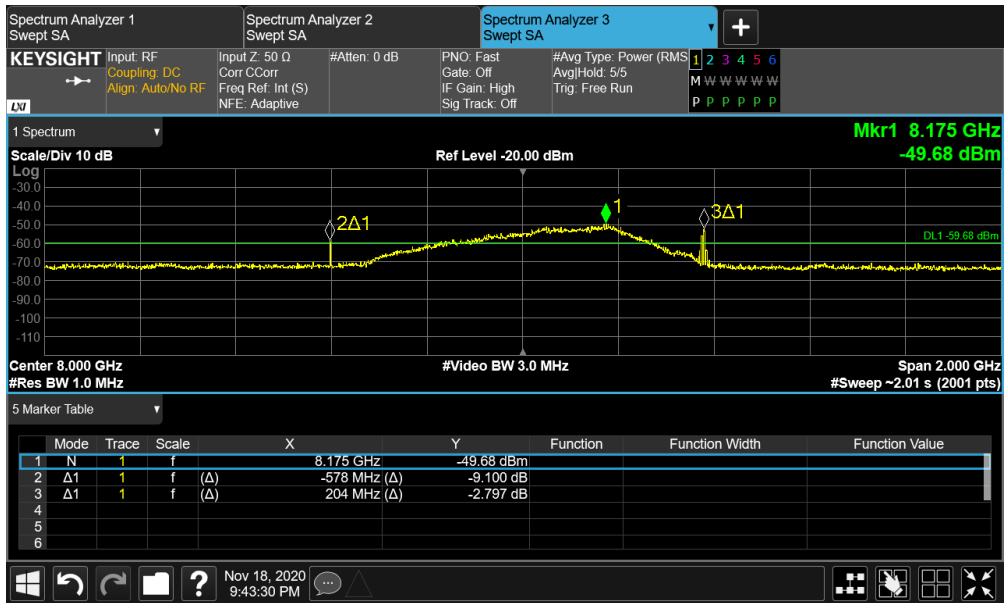


Plot 7-120. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 28

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 73 of 120



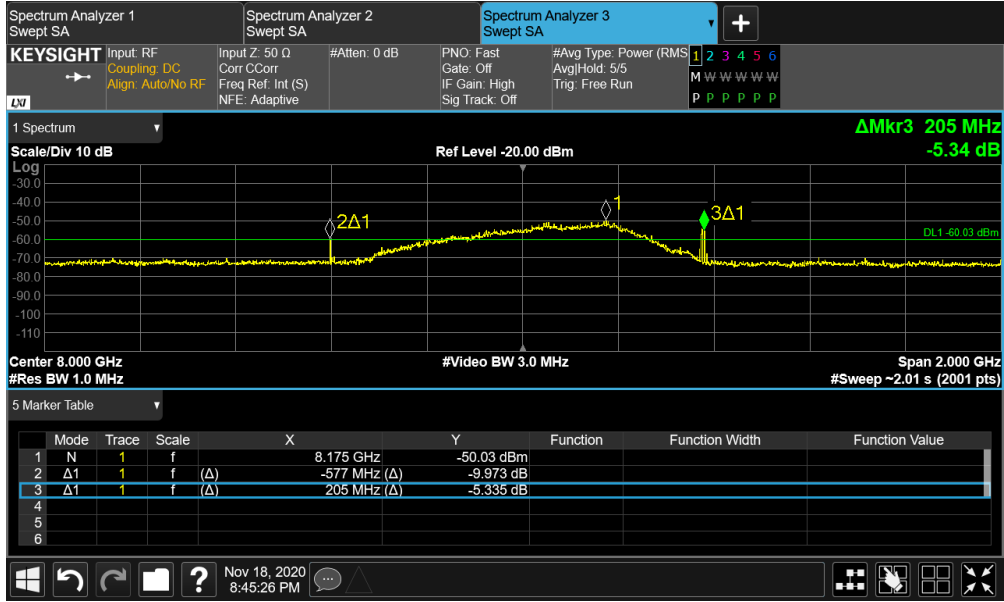
Plot 7-121. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 29



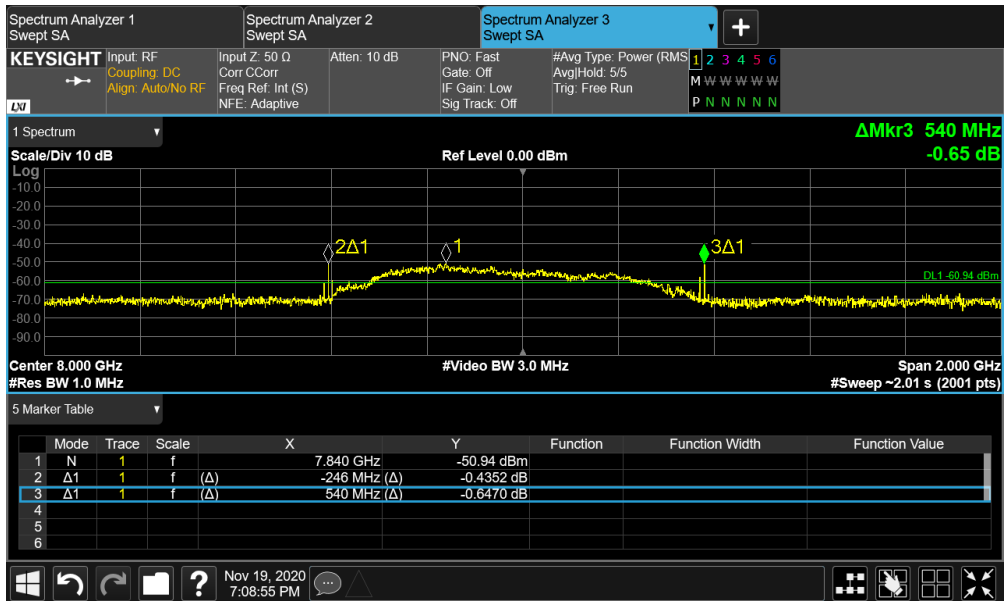
Plot 7-122. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 29

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 74 of 120



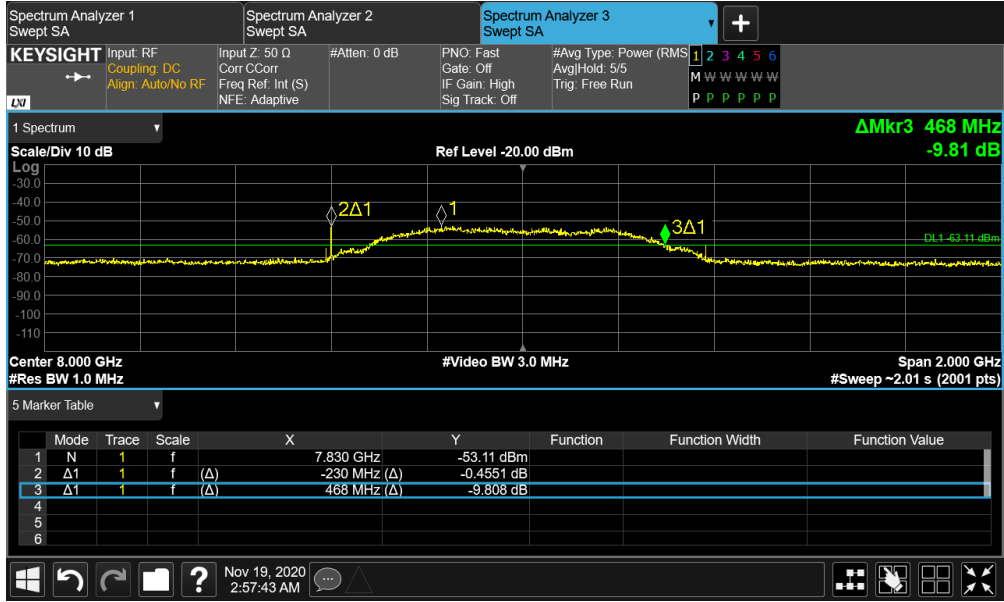


Plot 7-123. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 29

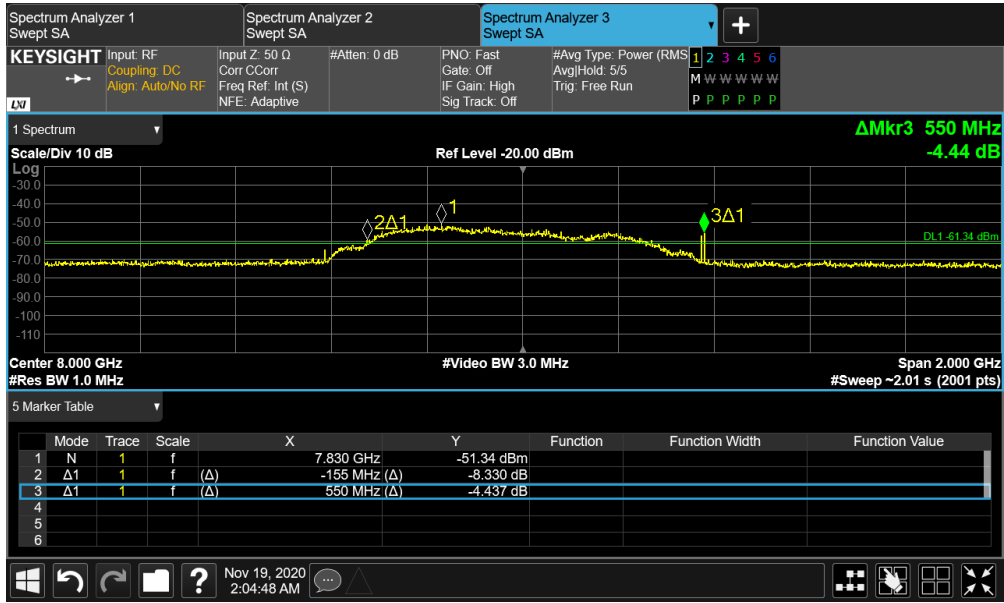


Plot 7-124. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 29

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 75 of 120

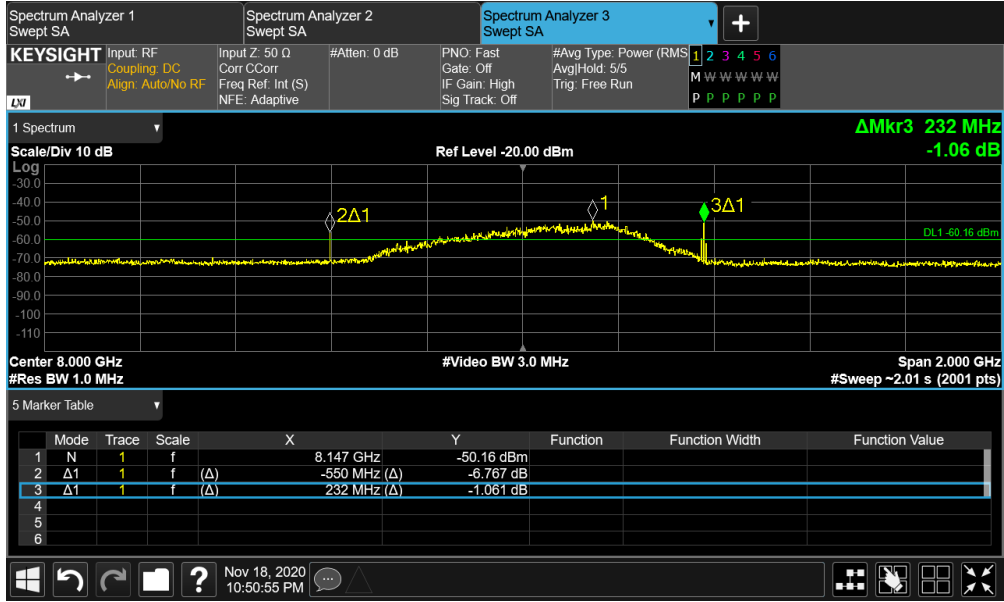


**Plot 7-125. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 29**

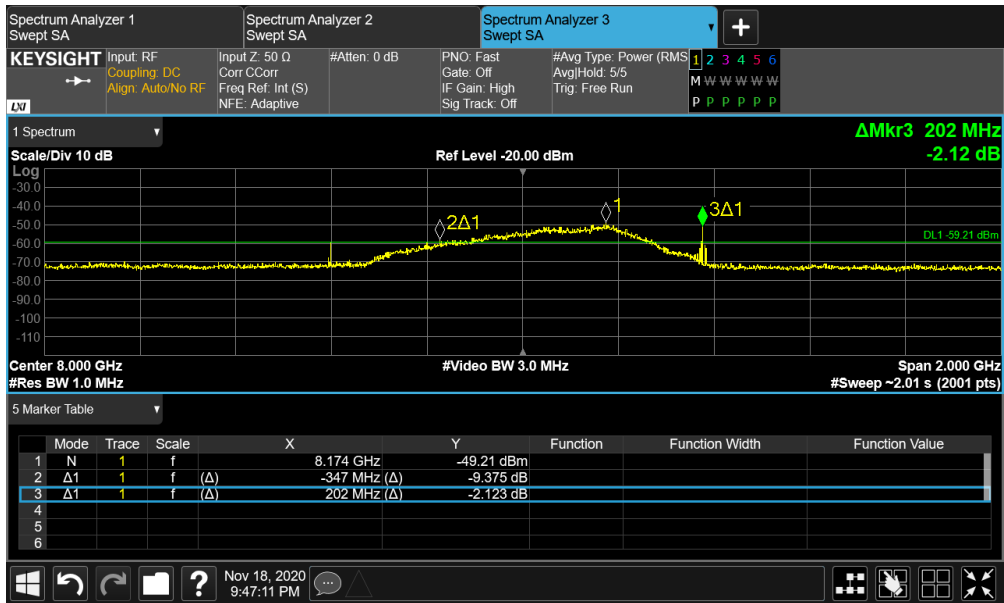


**Plot 7-126. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 29**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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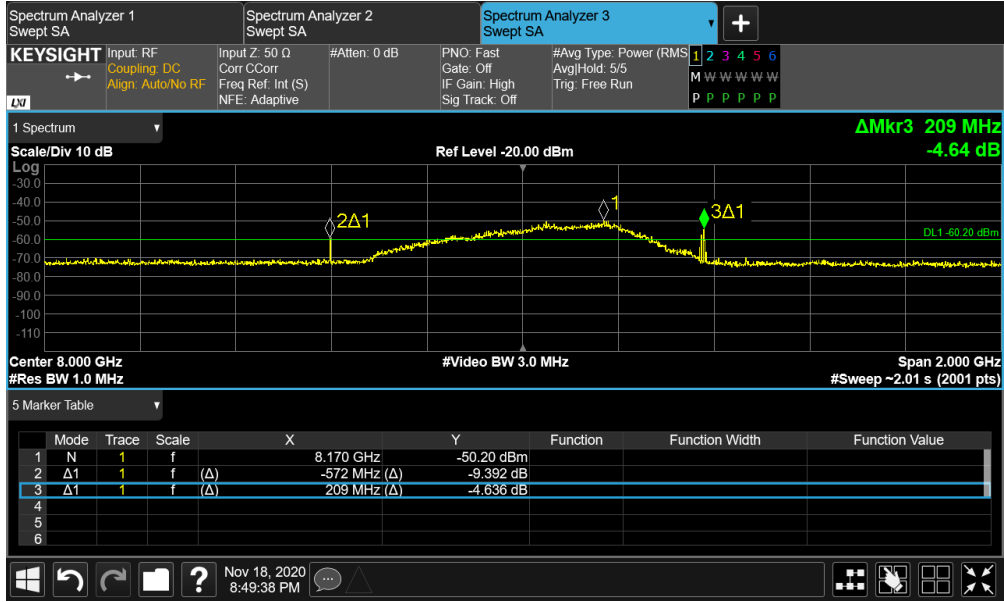


Plot 7-127. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 30

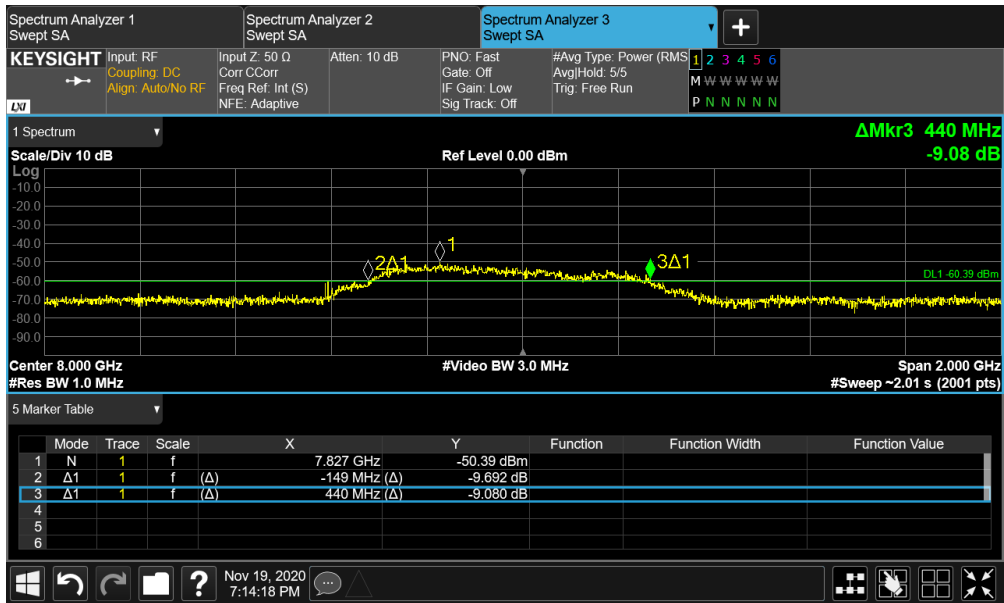


Plot 7-128. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 30

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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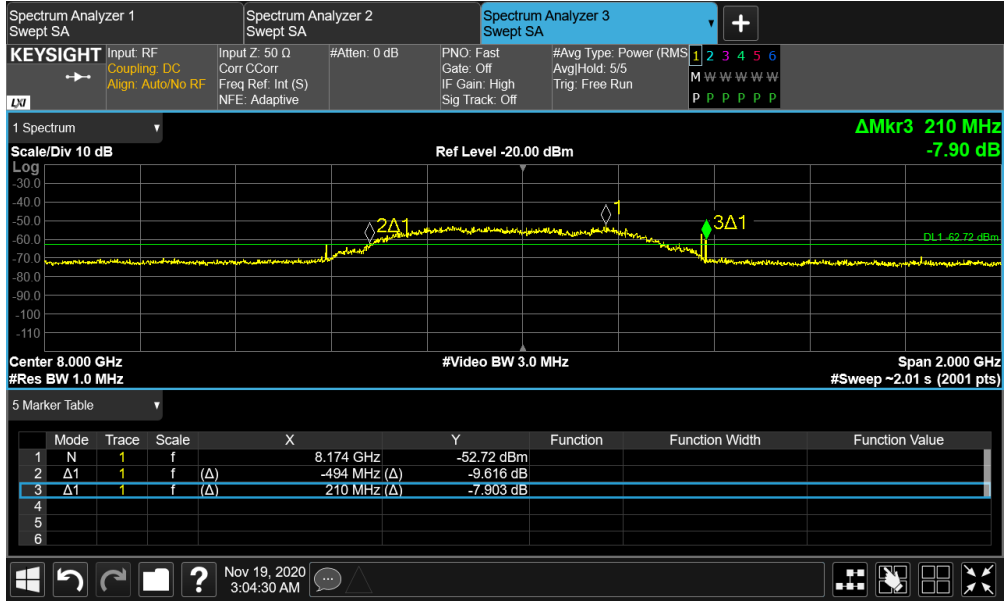


**Plot 7-129. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 30**

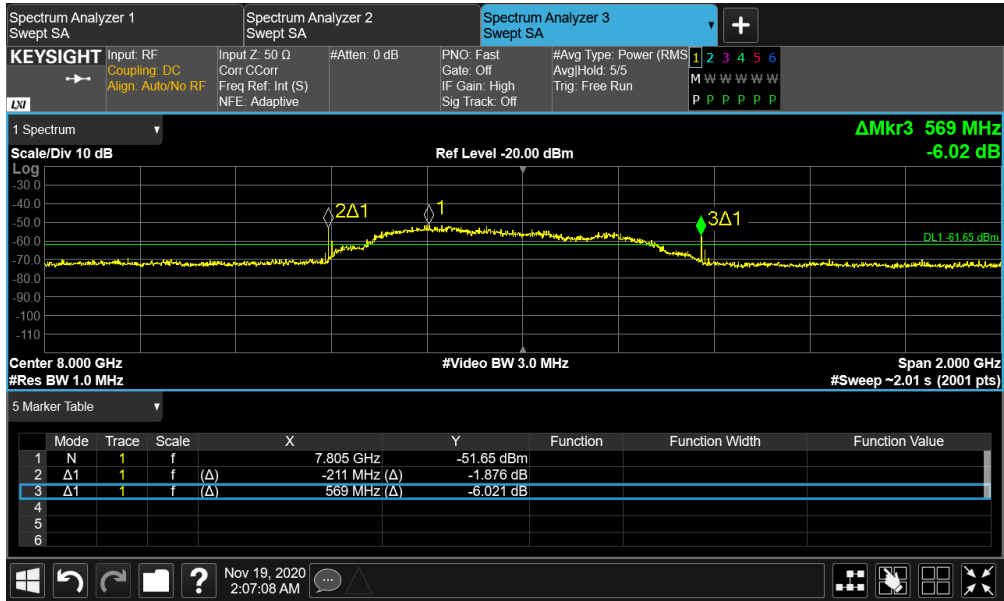


**Plot 7-130. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 30**

FCC ID: A3LSMG998B	<b>PCTEST</b> Proud to be part of  element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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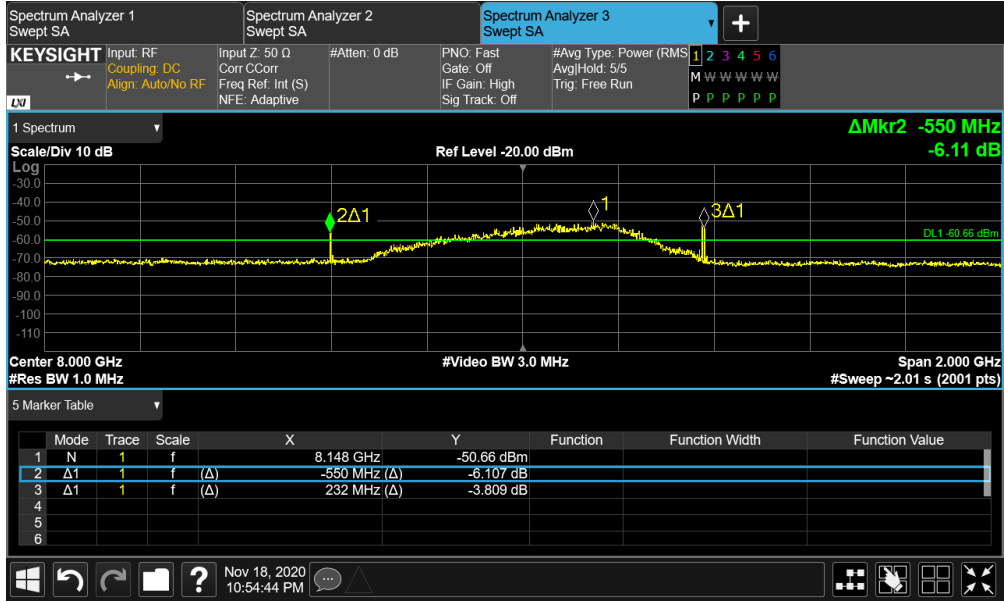


**Plot 7-131. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 30**

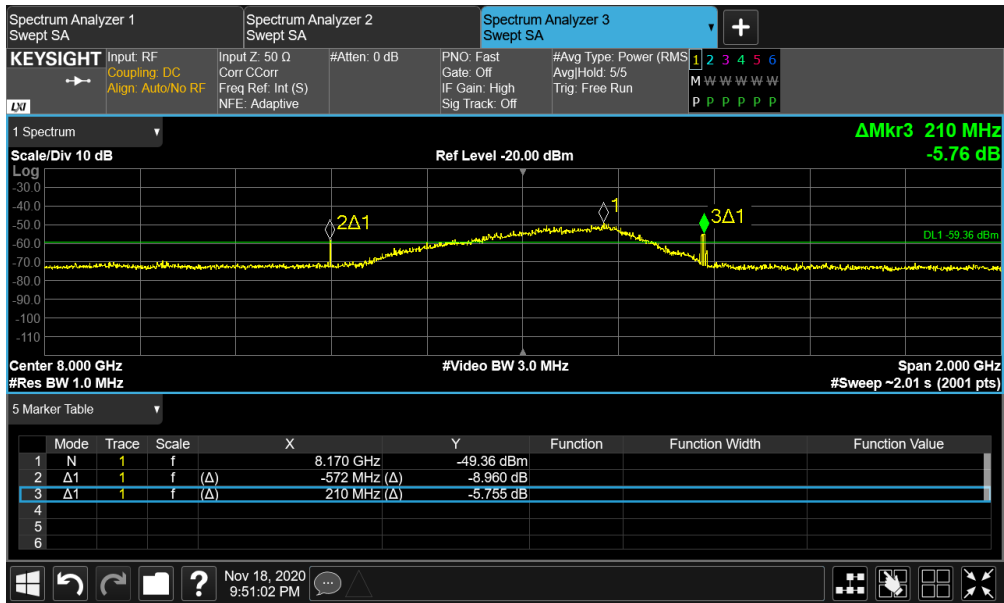


**Plot 7-132. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 30**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 79 of 120

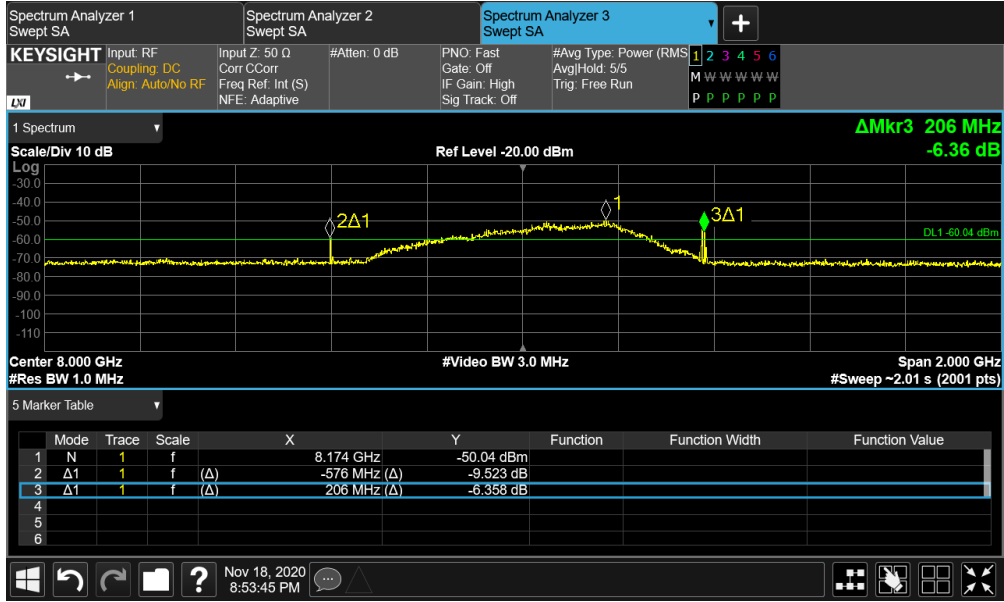


Plot 7-133. BANDWIDTH Plot – ANT1 - CH.9 - SP0 – Preamble 31

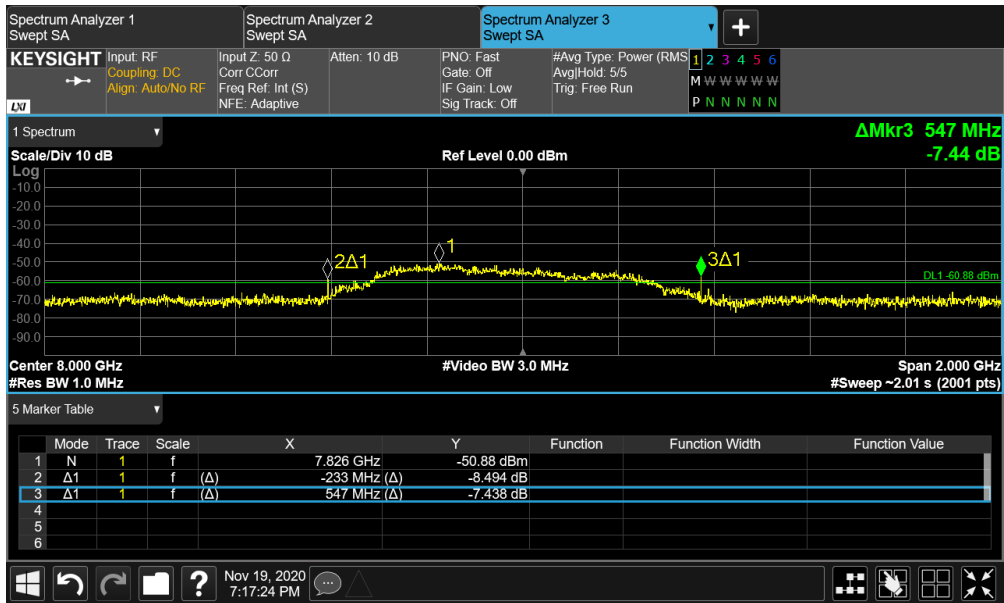


Plot 7-134. BANDWIDTH Plot – ANT1 - CH.9 – SP1 – Preamble 31

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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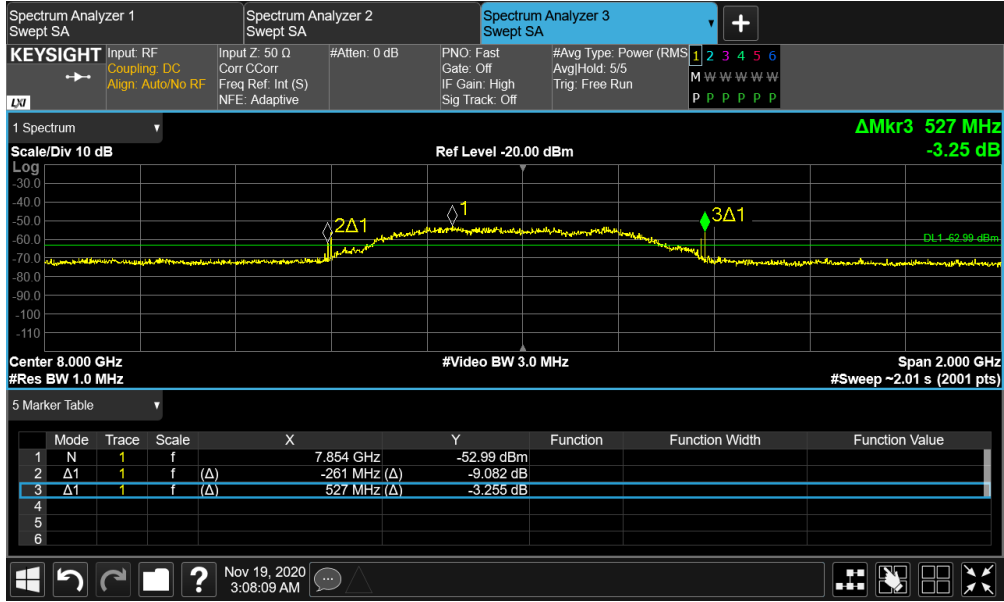


Plot 7-135. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 31

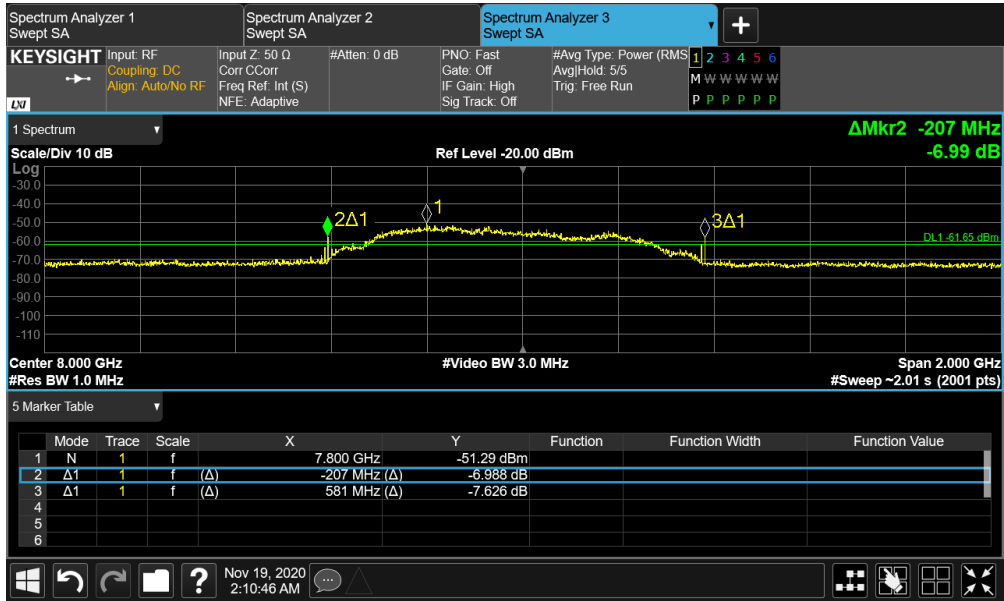


Plot 7-136. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 31

FCC ID: A3LSMG998B	 Proud to be part of 	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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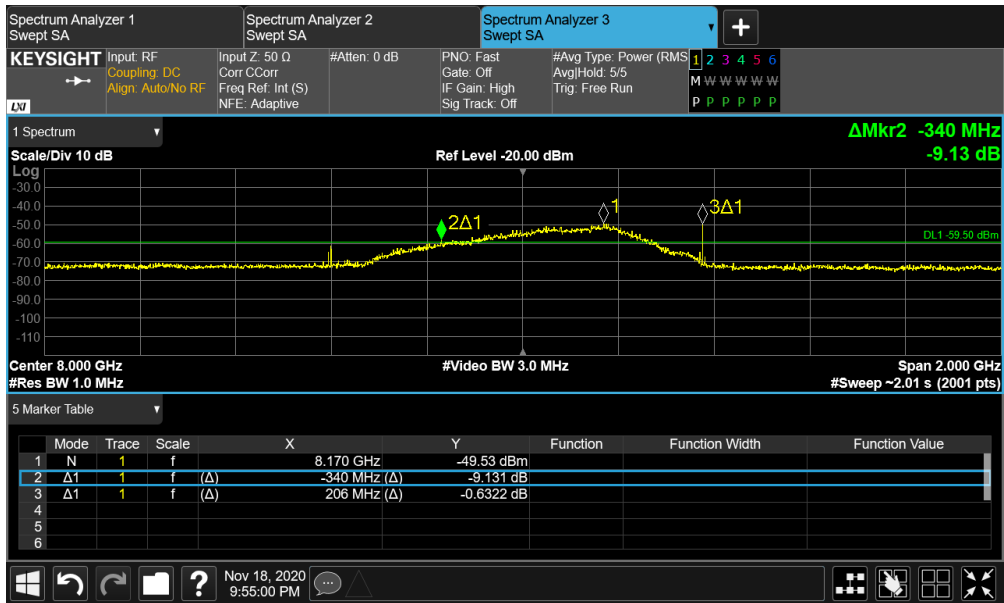
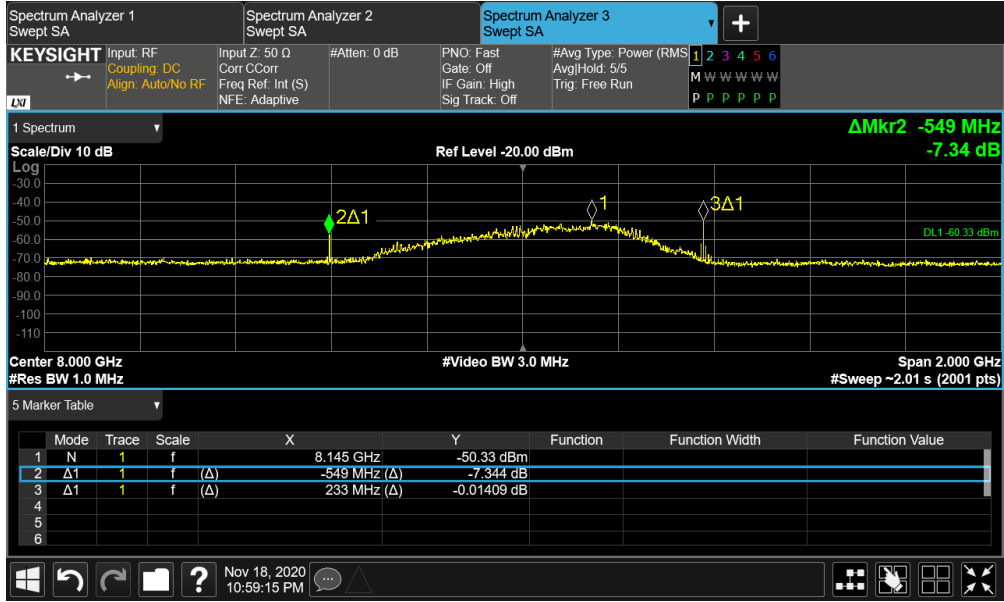
Plot 7-137. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 31



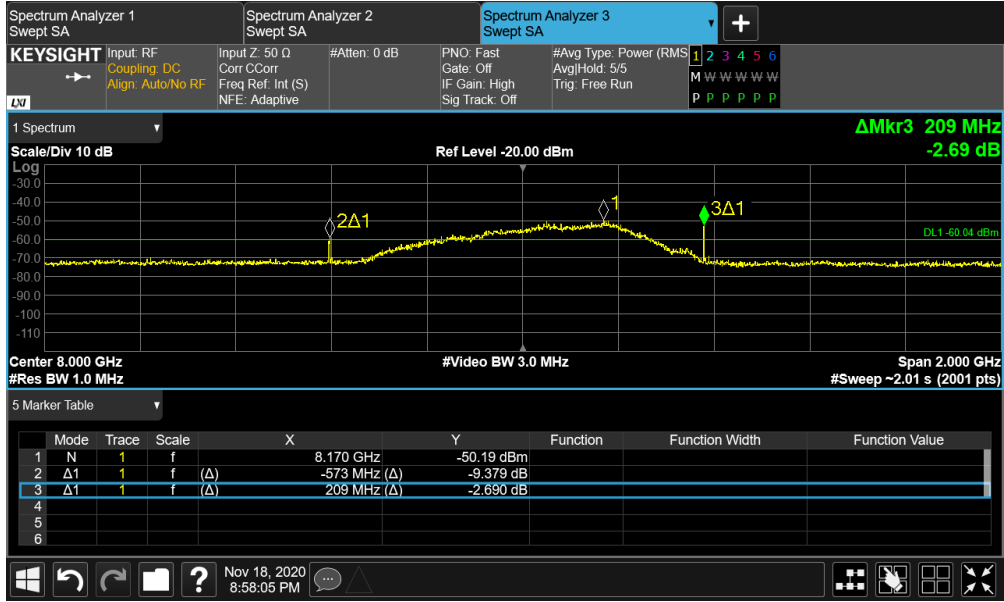
Plot 7-138. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 31

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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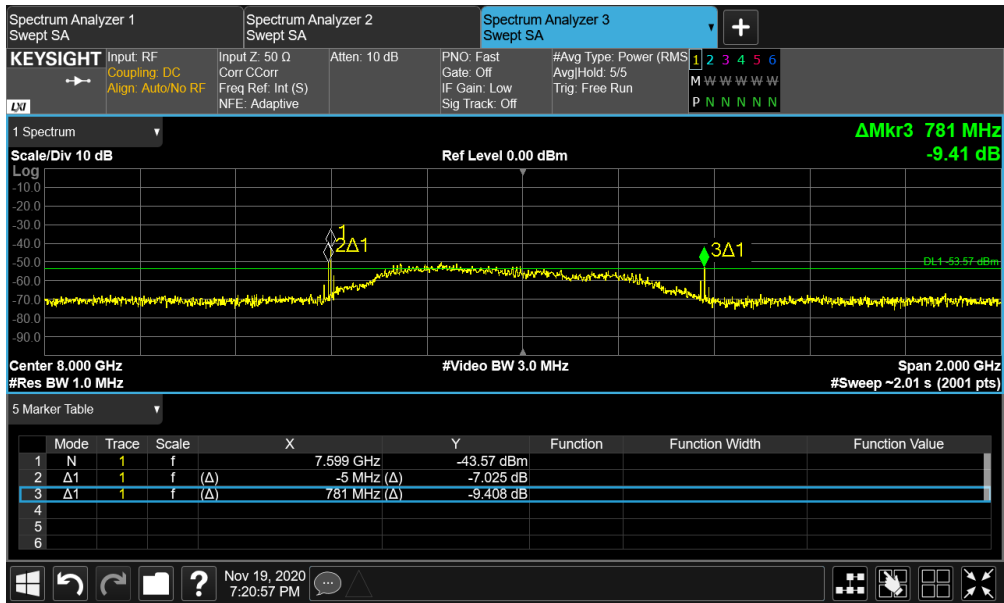




FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 83 of 120

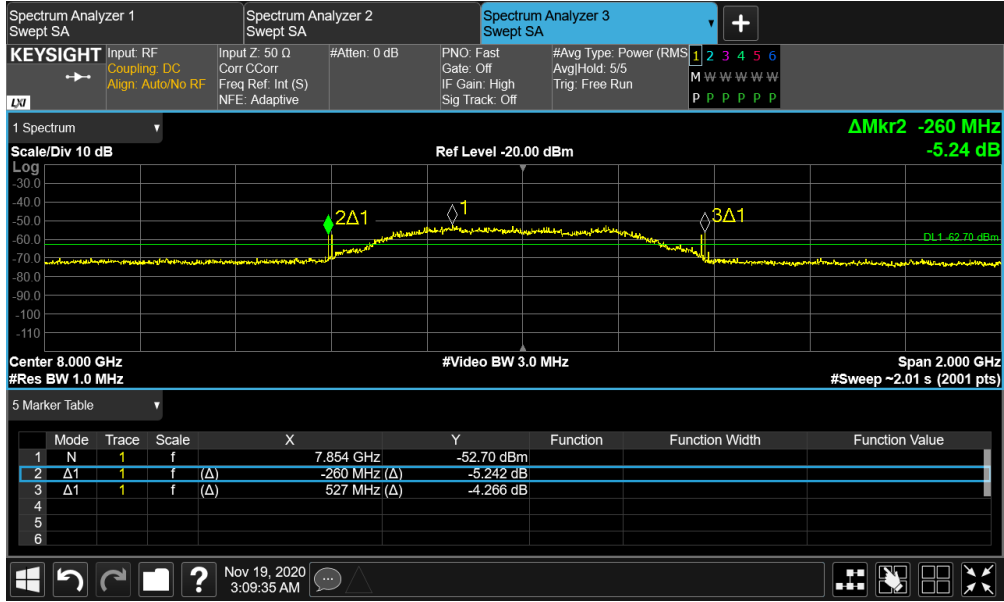


**Plot 7-141. BANDWIDTH Plot – ANT1 - CH.9 – SP3 – Preamble 32**

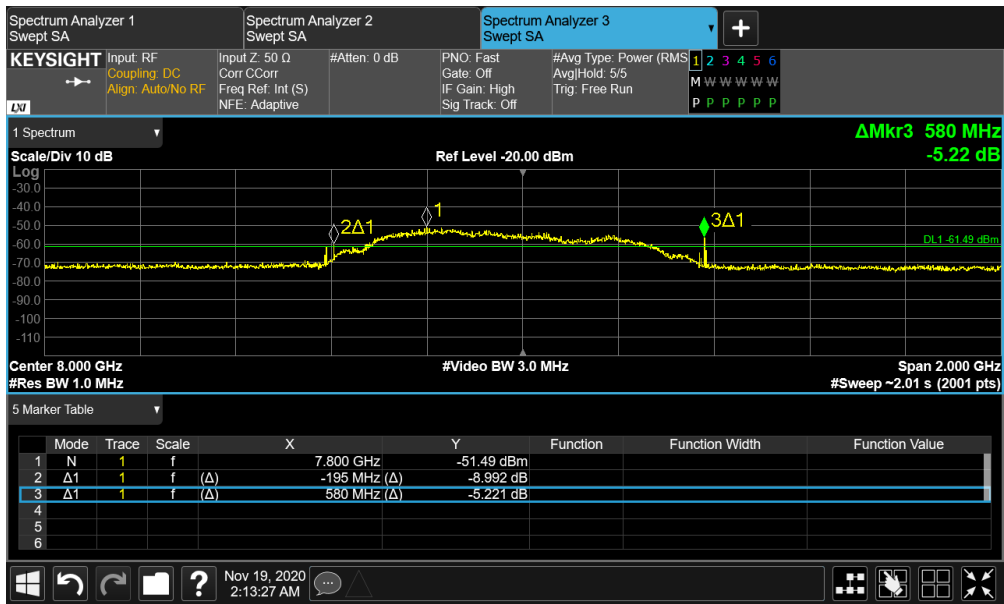


**Plot 7-142. BANDWIDTH Plot – ANT2 - CH.9 - SP0 – Preamble 32**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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**Plot 7-143. BANDWIDTH Plot – ANT2 - CH.9 – SP1 – Preamble 32**



**Plot 7-144. BANDWIDTH Plot – ANT2 - CH.9 – SP3 – Preamble 32**

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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### 7.3 Cessation Time §15.519(a)(1)

#### Test Overview and Limit

§15.519(a)(1) A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgment from the associated receiver that its transmission is being received an acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

#### Test Settings

1. RBW = 1MHz
2. VBW = 3MHz
3. Span = 0 Span Mode
4. Sweep time shall be sufficient to demonstrate EUTs compliance with the rule part.
5. Vertical Markers are placed to indicate the point in which the receiver ceases acknowledging the EUT and the point 10s after.

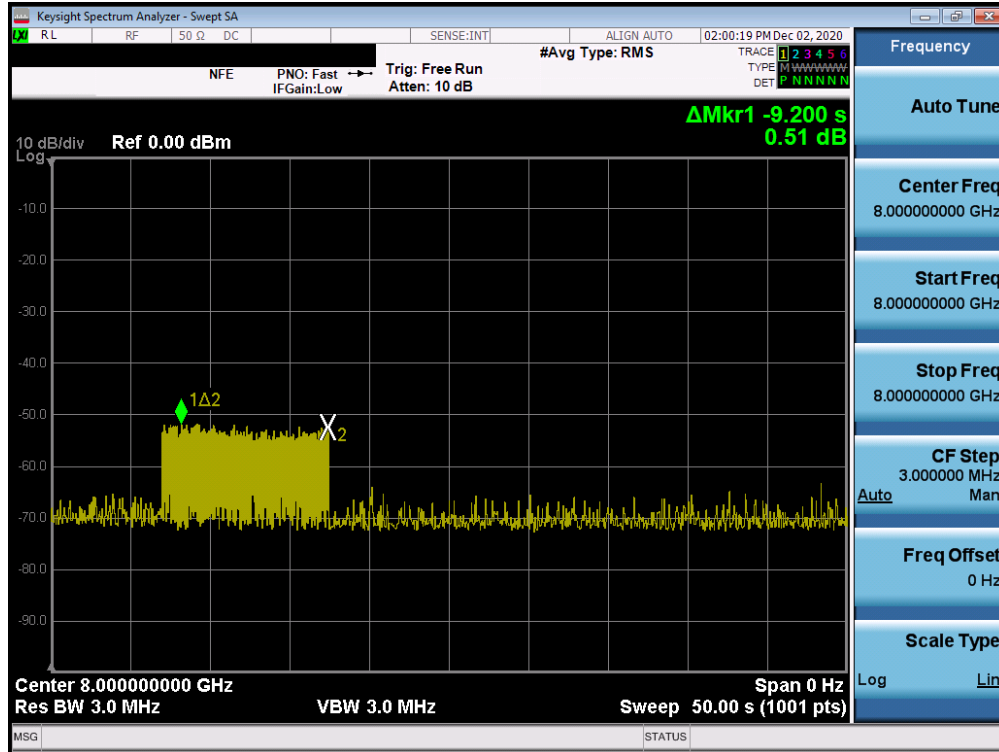
#### Test Setup

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



**Figure 7-2. Test Instrument and Measurement Setup**

<b>FCC ID:</b> A3LSMG998B		<b>MEASUREMENT REPORT (CERTIFICATION)</b>	 <b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2009280154-28.A3L	<b>Test Dates:</b> 9/28/2020-12/04/2020	<b>EUT Type:</b> Portable Handset	Page 86 of 120



Plot 7-145. Cessation Time Plot

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Test Report S/N: 1M2009280154-28.A3L	Test Dates: 9/28/2020-12/04/2020	EUT Type: Portable Handset		Page 87 of 120

## 7.4 Peak Power and Maximum Average Emissions

### §15.519(e), §15.519(c)

#### Test Overview and Limit

15.519 (3)(e) There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, fM. That limit is 0 dBm EIRP.

15.519 (3)(c) The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dBm
3100 - 10600	-41.3

#### Test Procedures Used

ANSI C63.10-2013

#### Test Settings

##### Peak:

1. Analyzer frequency set to the frequency of the radiated spurious emission of interest
2. RBW = 50MHz, VBW = 80MHz
3. Detector = Peak
4. Sweep time = 2s
5. Trace mode = max hold
6. Trace was allowed to stabilize

##### Average:

1. Analyzer frequency set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz, VBW = 3MHz
3. Detector = Average-RMS (for Average)
4. Sweep time = 2s
5. Sweep Points = 2001 (1ms integration period per measurement bin)
6. Trace mode = max hold
7. Trace was allowed to stabilize

FCC ID: A3LSMG998B		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## RESULTS – BPRF

ANT	CH	MODE	Preamble	Meas. Ant.	FM [GHz]	Peak Power (dBm/50MHz)	Peak Limit (dBm/50MHz)	Margin [dB]
1	5	SP0	12	H	6.349	-12.12	0	-12.12
2	5	SP1	12	H	6.678	-6.21	0	-6.21
1	9	SP0	9	V	8.178	-5.91	0	-5.91
2	9	SP1	9	H	7.868	-7.43	0	-7.43

Table 7-4. BPRF Highest Peak Power Results

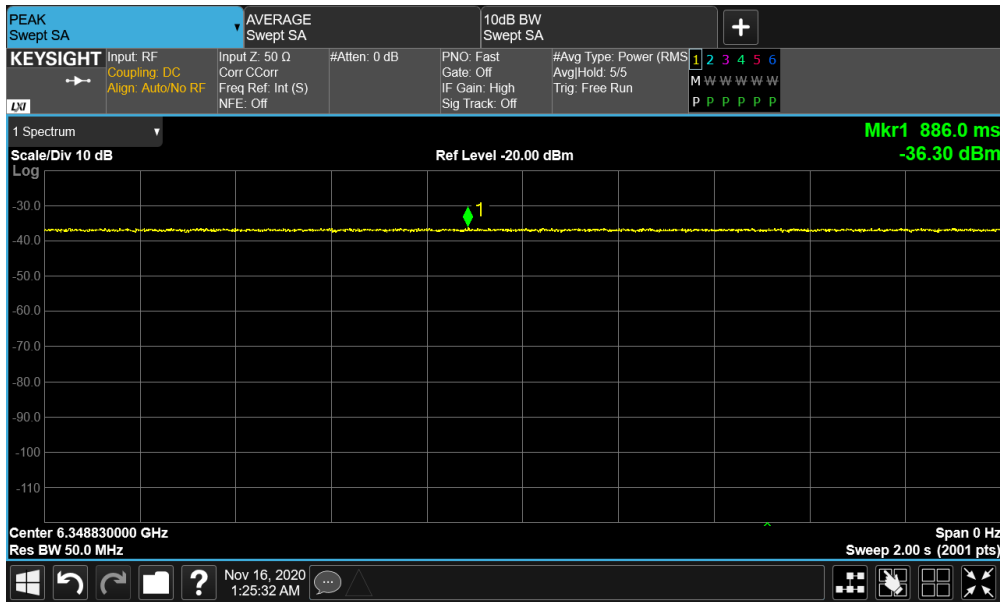
ANT	CH	MODE	Preamble	Meas. Ant.	FM [GHz]	Average Power (dBm)	Average Limit (dBm)	Margin [dB]
1	5	SP3	10	H	6.342	-44.82	-41.3	-3.52
2	5	SP3	11	H	6.342	-45.21	-41.3	-3.91
1	9	SP3	11	V	8.175	-44.32	-41.3	-3.02
2	9	SP3	12	H	7.854	-45.64	-41.3	-4.34

Table 7-5. BPRF Highest Average Power Results

### Sample Calculation:

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter

$$RSE \text{ EIRP (dBm)} = \text{Analyzer Level (dBm)} + 107 + AFCL \text{ (dB/m)} + 20\text{Log(Dm)} - 104.8$$



Plot 7-146. UWB Peak Power Measurement - ANT 1 - CH.5 – SP0 – BPRF

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