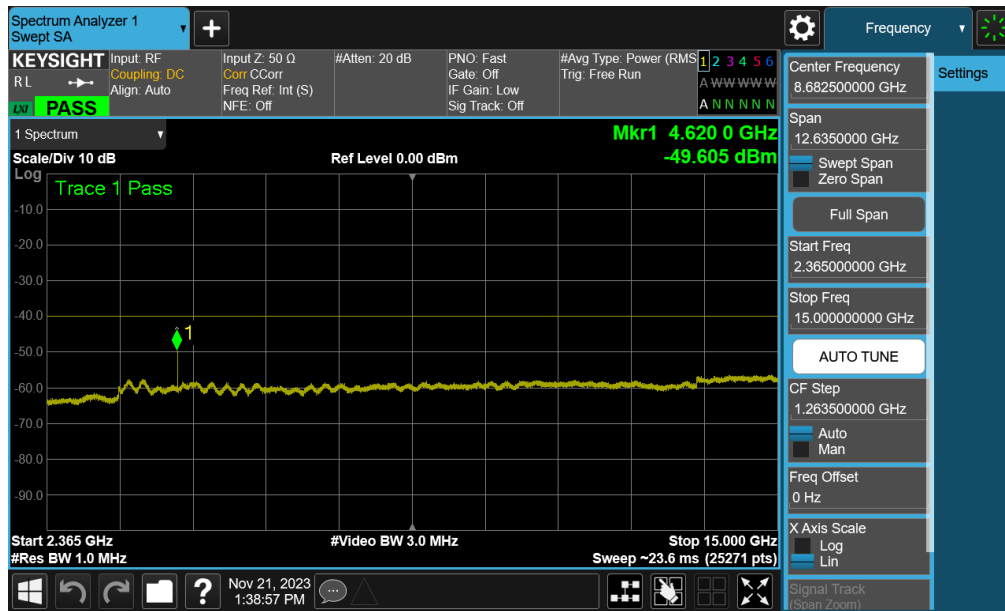
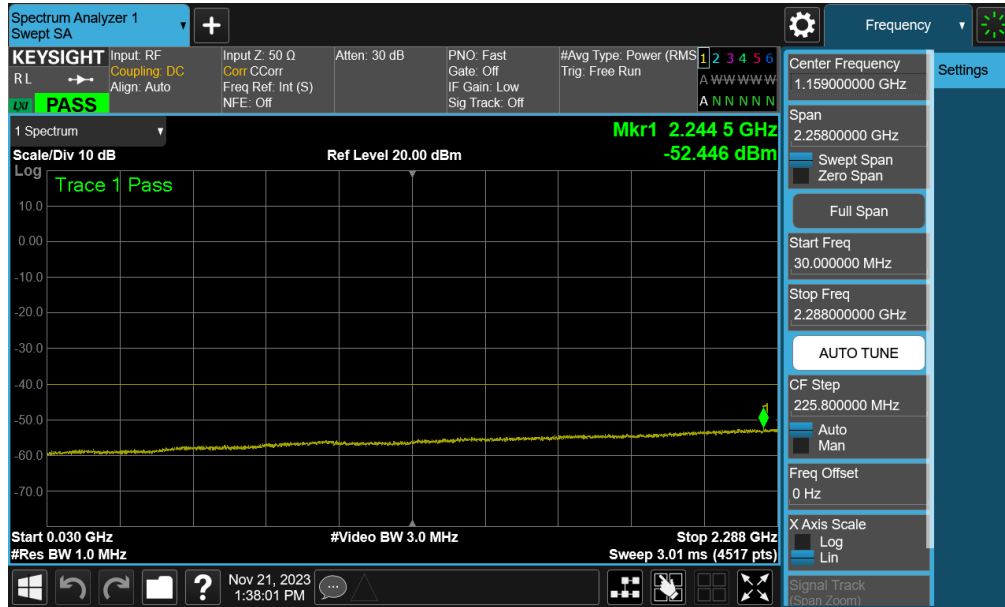
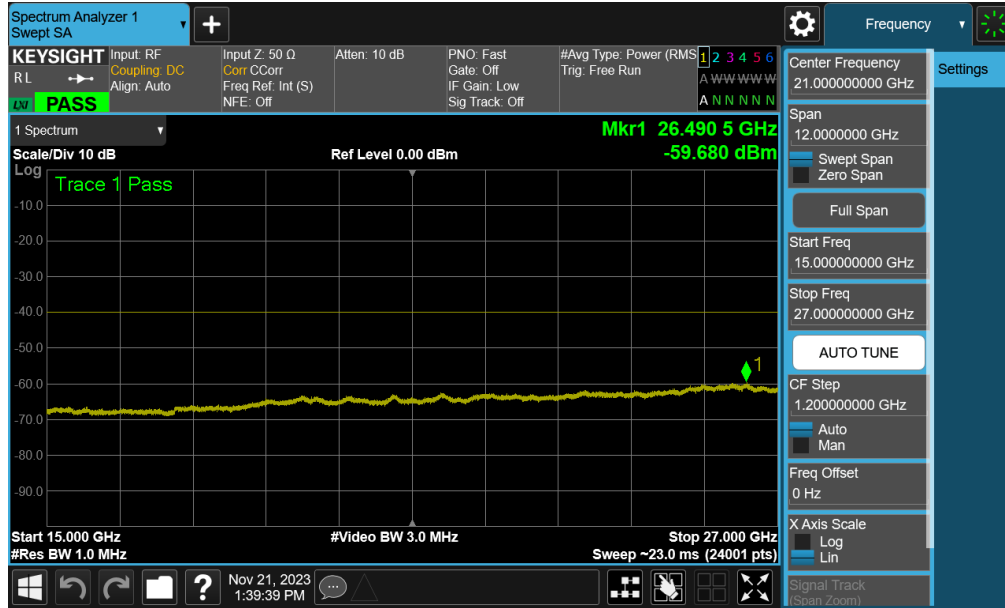


## NR Band n30 – Ant2



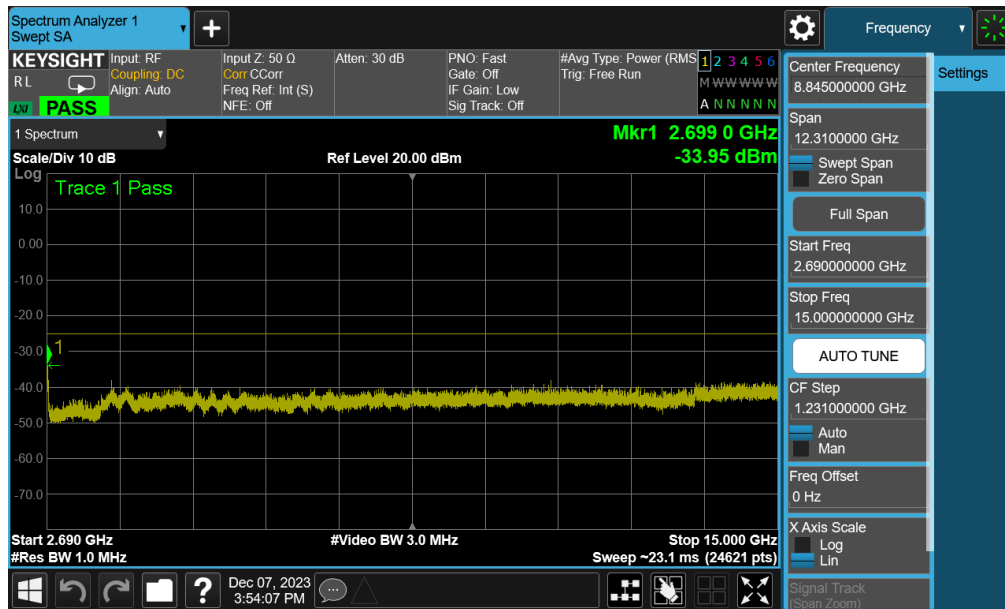
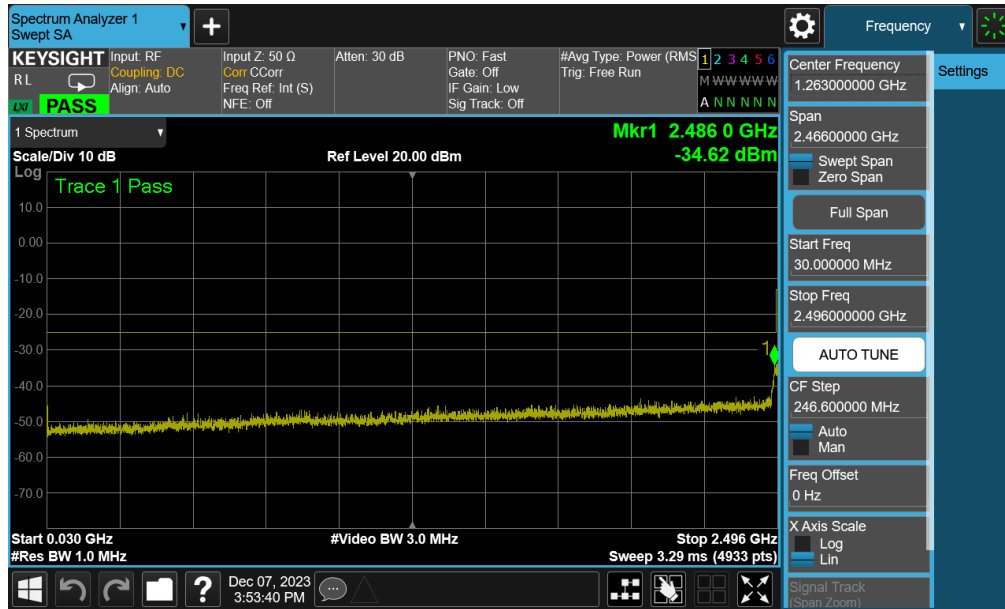
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 118 of 193



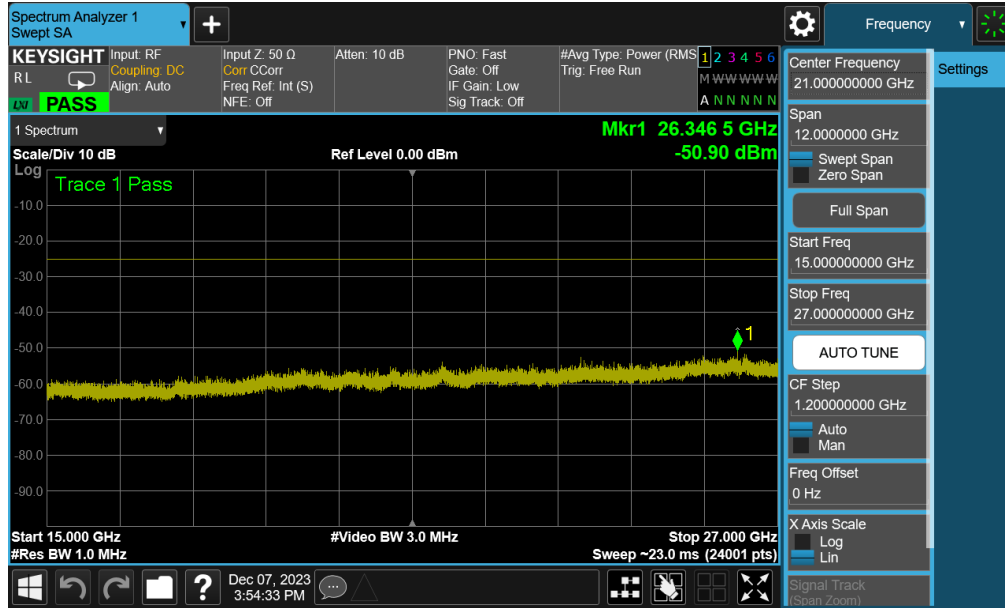
Plot 7-168. Conducted Spurious Plot (NR Band n30 - 10MHz QPSK - RB Size 1, RB Offset 0 – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 119 of 193

## NR Band n41 – Ant2



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Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 120 of 193



Plot 7-171. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 121 of 193

## 7.5 Band Edge Emissions at Antenna Terminal

### Test Overview

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 maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

***The minimum permissible attenuation level for Band 30 is  $> 43 + 10 \log_{10}(P[\text{Watts}]$  at 2300-2305MHz & 2345-2360MHz,  $> 55 + 10 \log_{10}(P[\text{Watts}]$  at 2320-2324MHz & 2341-2345MHz,  $> 61 + 10 \log_{10}(P[\text{Watts}]$  at 2324-2328MHz & 2337-2341MHz,  $> 67 + 10 \log_{10}(P[\text{Watts}]$  at 2288-2292MHz & 2328-2337MHz, and  $> 70 + 10 \log_{10}(P[\text{Watts}]$  at frequencies  $< 2288\text{MHz}$  &  $> 2365\text{MHz}$ .***

***The minimum permissible attenuation level for Band 7 and 41 is as noted in the Test Notes on the following page.***

### Test Procedure Used

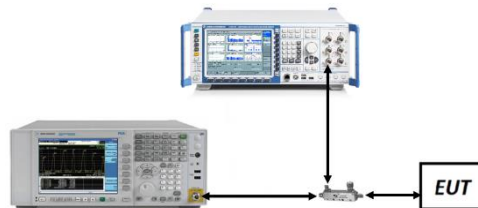
ANSI C63.26-2015 – Section 5.7.3

### 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  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
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**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Test Notes**

1. Per 27.53(a)(5) in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
2. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz.
3. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

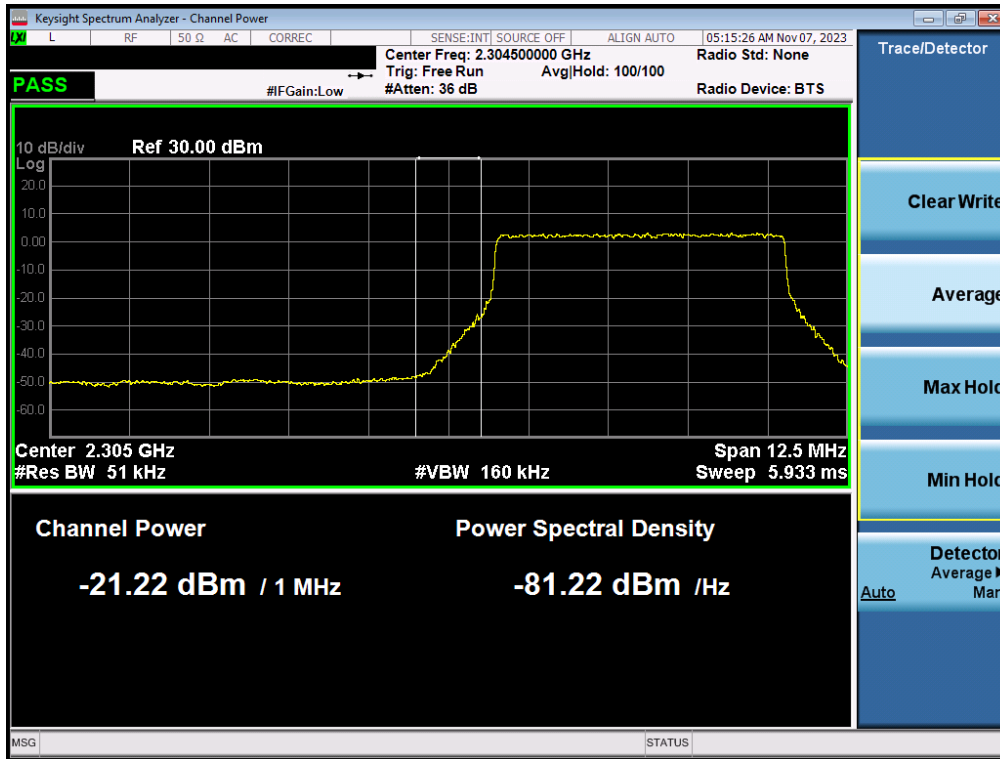
FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 123 of 193

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE B30	10 MHz	Low	Band Edge	-35.24	-13	-22.24
		Low	Extended	-41.76	-37	-4.76
		High	Band Edge	-25.84	-13	-12.84
		High	Extended	-45.80	-37	-8.80
	5 MHz	Low	Band Edge	-21.22	-13	-8.22
		Low	Extended	-14.78	-13	-1.78
		High	Band Edge	-20.96	-13	-7.96
		High	Extended	-45.99	-37	-8.99
LTE B7	20 MHz	Low	Band Edge	-39.54	-25	-14.54
		High	Band Edge	-47.31	-25	-22.31
	15 MHz	Low	Band Edge	-42.33	-25	-17.33
		High	Band Edge	-46.22	-25	-21.22
	10 MHz	Low	Band Edge	-24.68	-10	-14.68
		High	Band Edge	-25.59	-10	-15.59
	5 MHz	Low	Band Edge	-41.40	-25	-16.40
		High	Band Edge	-41.05	-25	-16.05
LTE B41 PC2	20 MHz	Low	Band Edge	-36.66	-25	-11.66
		High	Band Edge	-42.94	-25	-17.94
	15 MHz	Low	Band Edge	-36.97	-25	-11.97
		High	Band Edge	-41.02	-25	-16.02
	10 MHz	Low	Band Edge	-35.57	-25	-10.57
		High	Band Edge	-39.39	-25	-14.39
	5 MHz	Low	Band Edge	-35.01	-25	-10.01
		High	Band Edge	-34.43	-25	-9.43
LTE B38	20 MHz	Low	Band Edge	-39.97	-25	-14.97
		High	Band Edge	-46.26	-25	-21.26
	15 MHz	Low	Band Edge	-39.61	-25	-14.61
		High	Band Edge	-44.46	-25	-19.46
	10 MHz	Low	Band Edge	-38.14	-25	-13.14
		High	Band Edge	-42.72	-25	-17.72
	5 MHz	Low	Band Edge	-39.84	-25	-14.84
		High	Band Edge	-38.85	-25	-13.85
LTE-B41 PC2 ULCA	20+20MHz	Low	Band Edge	-39.86	-25	-14.86
		High	Band Edge	-29.34	-25	-4.34

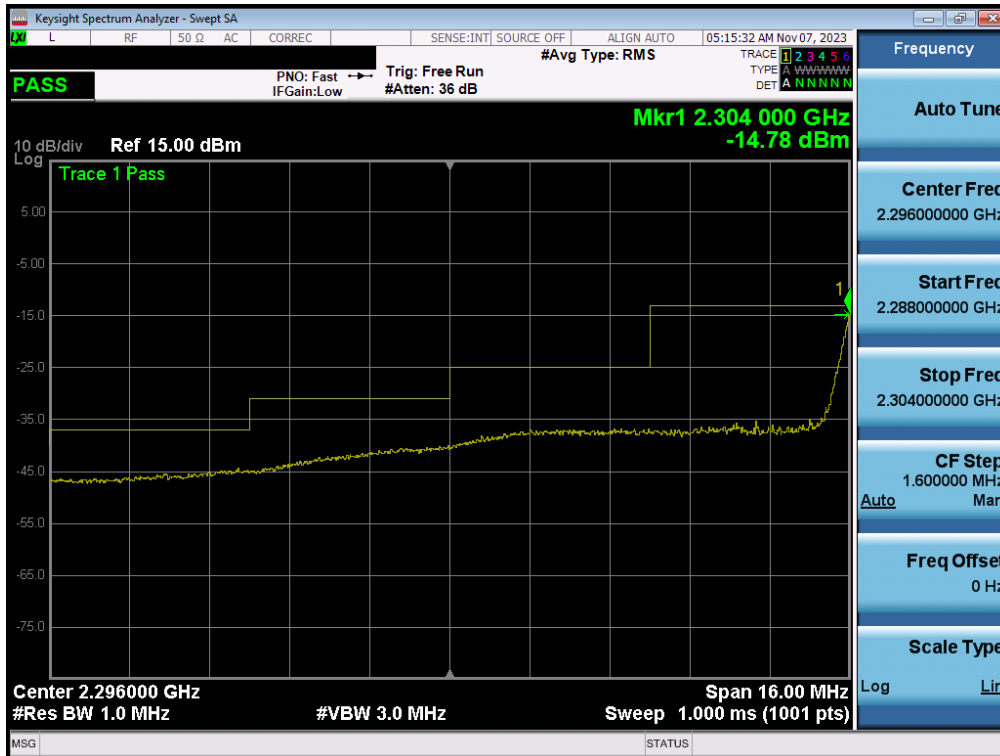
**Table 7-17. Conducted Band Edge Test Results – LTE – Ant1**

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# LTE Band 30 – Ant1



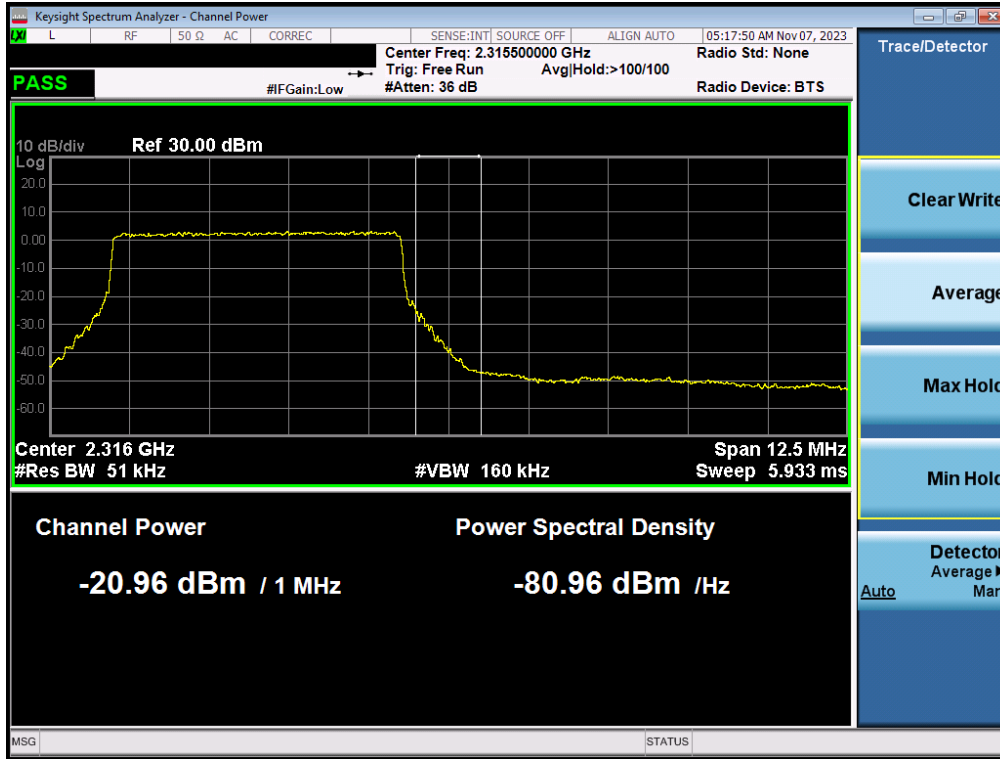
Plot 7-172. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant1)



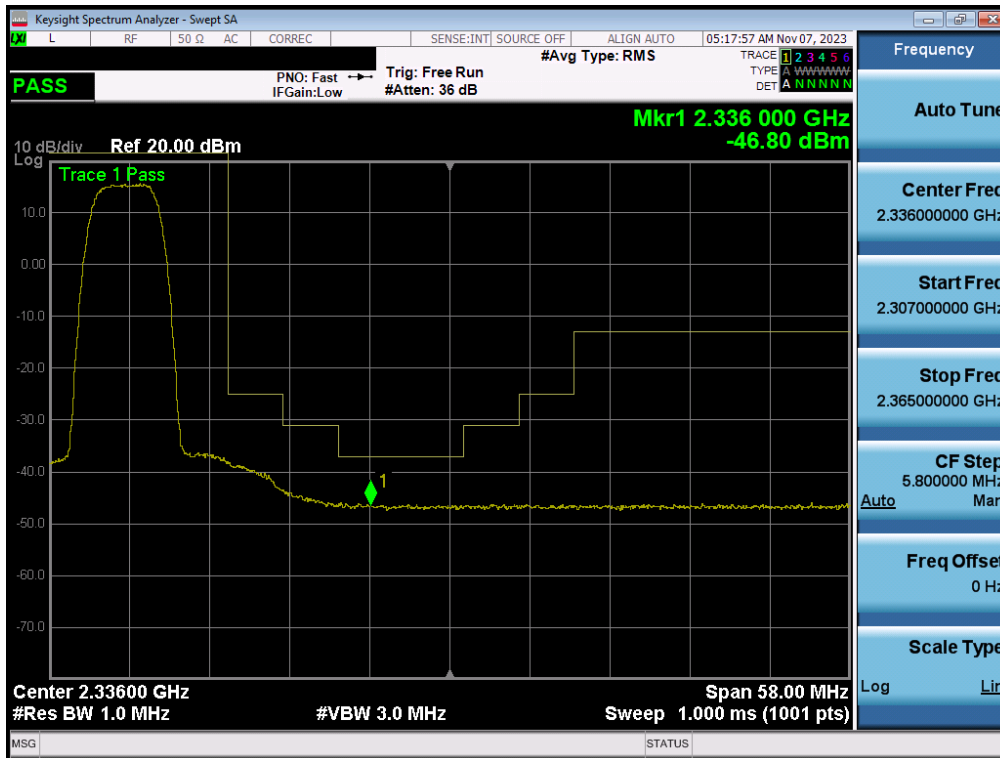
Plot 7-173. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 125 of 193





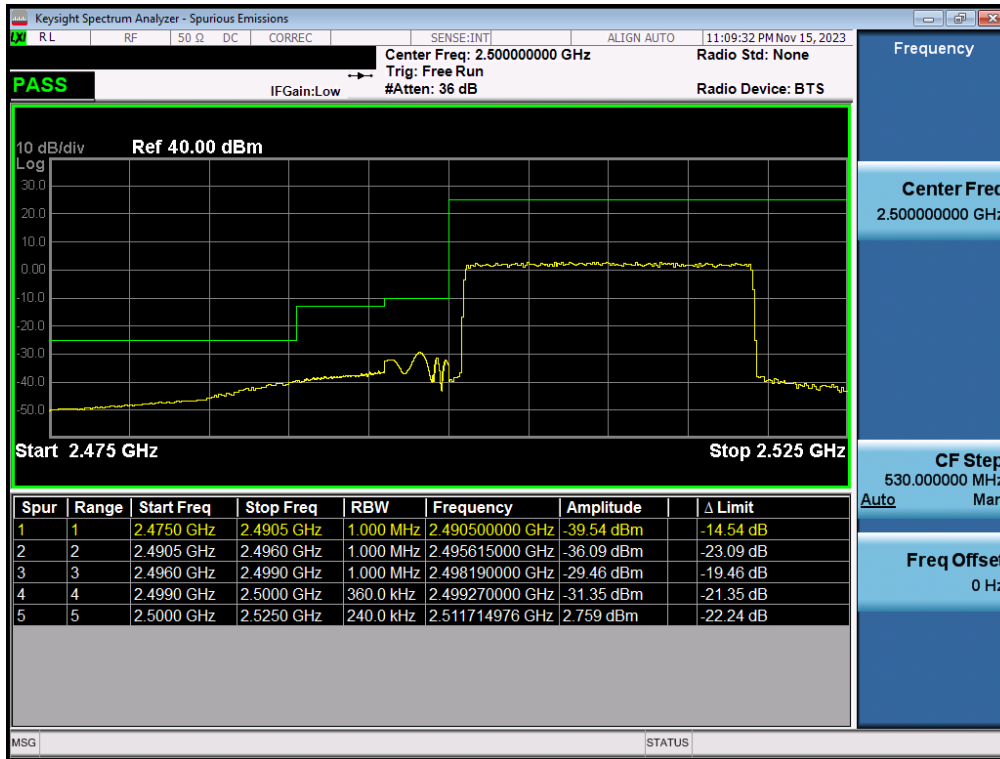
Plot 7-174. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK - Full RB - Ant1)



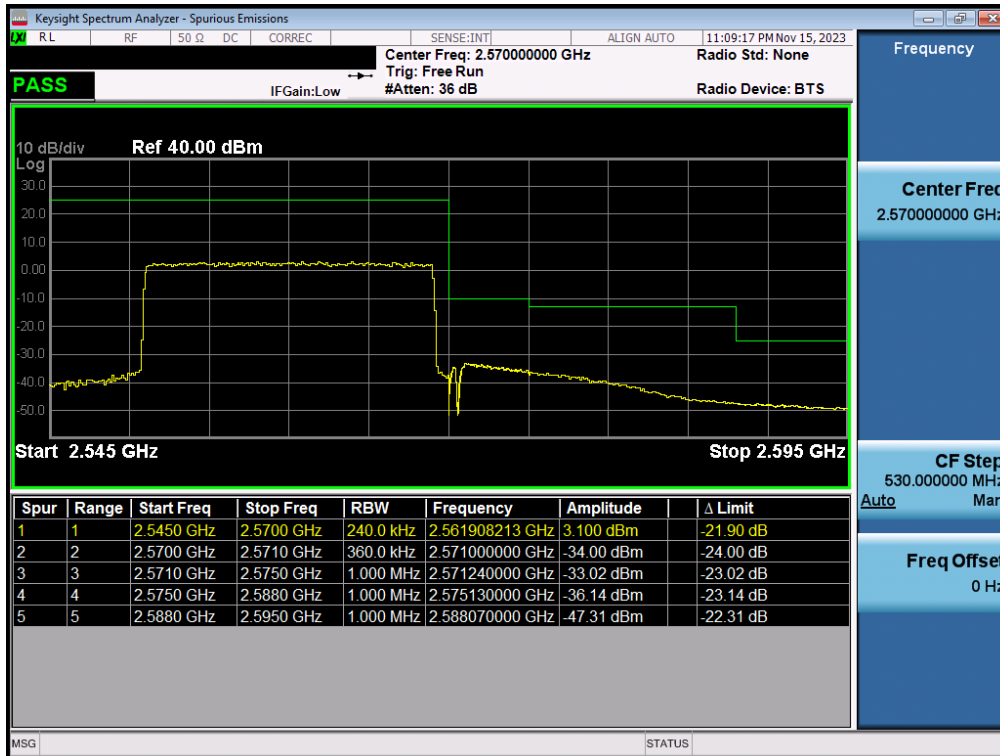
Plot 7-175. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK - Full RB - Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 126 of 193

# LTE Band 7 – Ant1



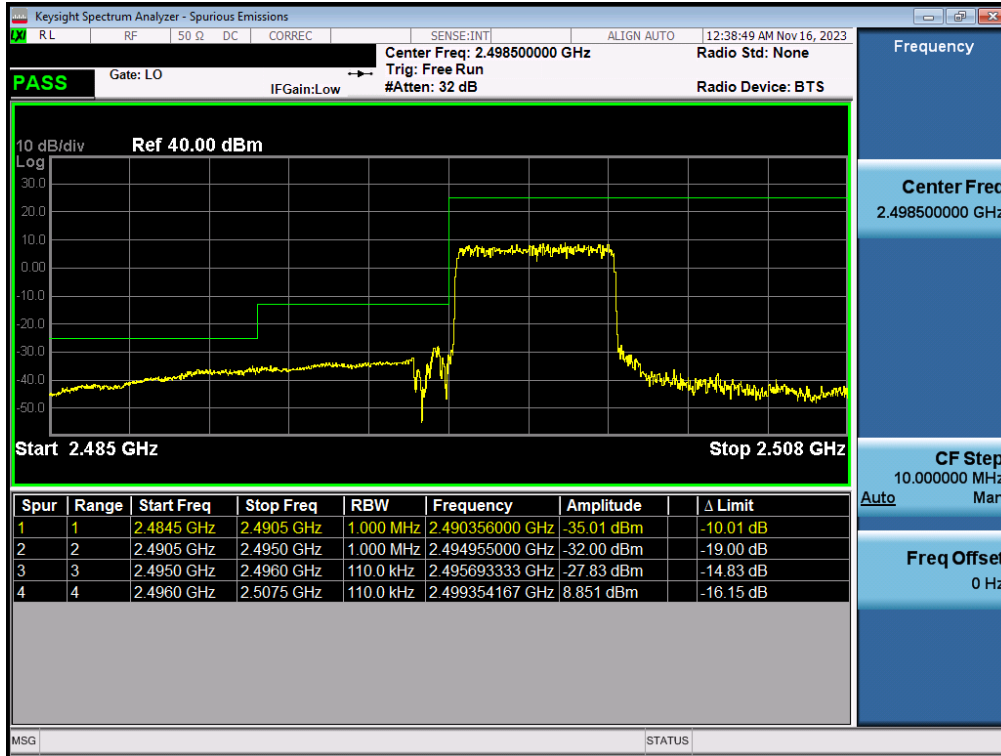
Plot 7-176. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant1)



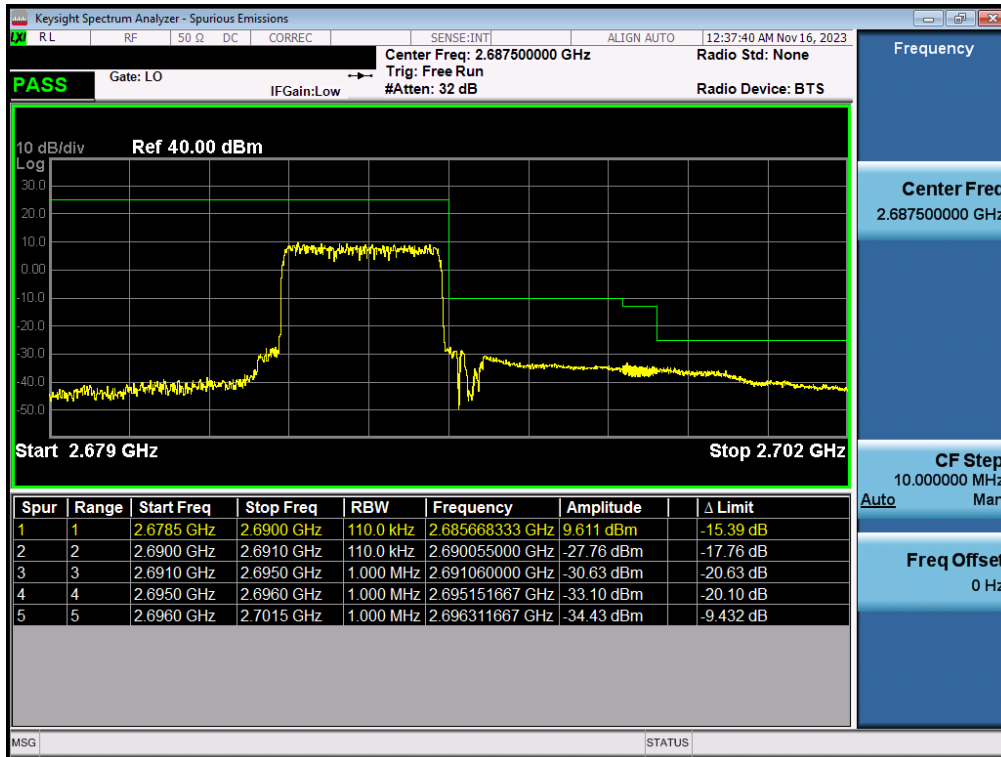
Plot 7-177. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 127 of 193

# LTE Band 41(PC2) – Ant1



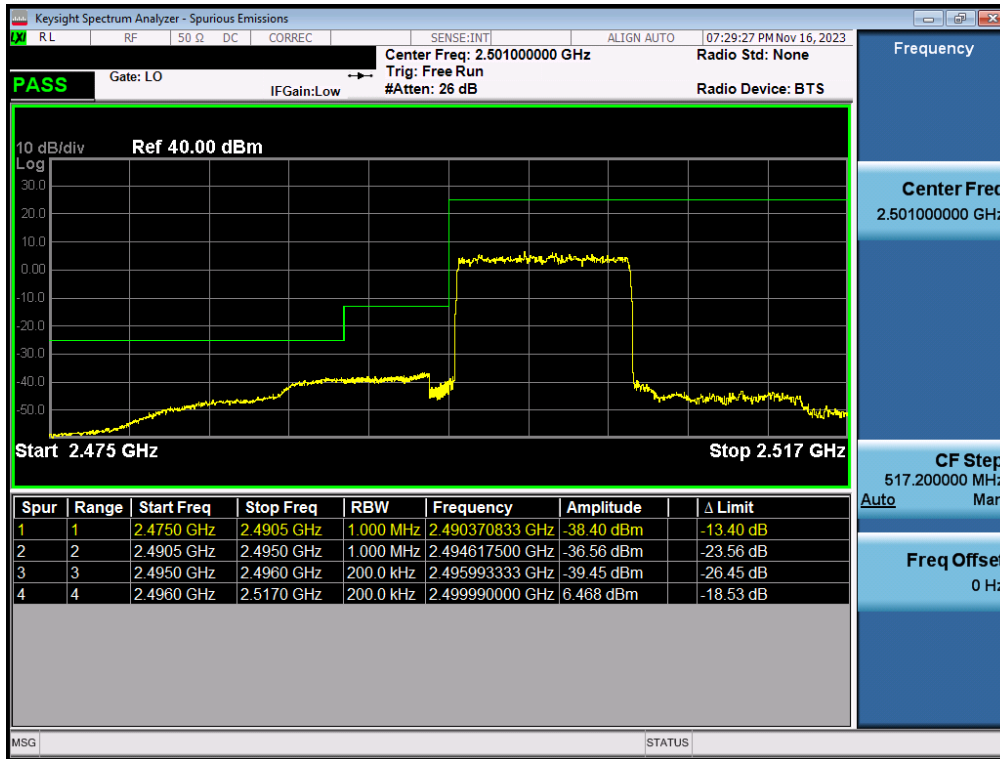
Plot 7-178. Lower ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB - Ant1)



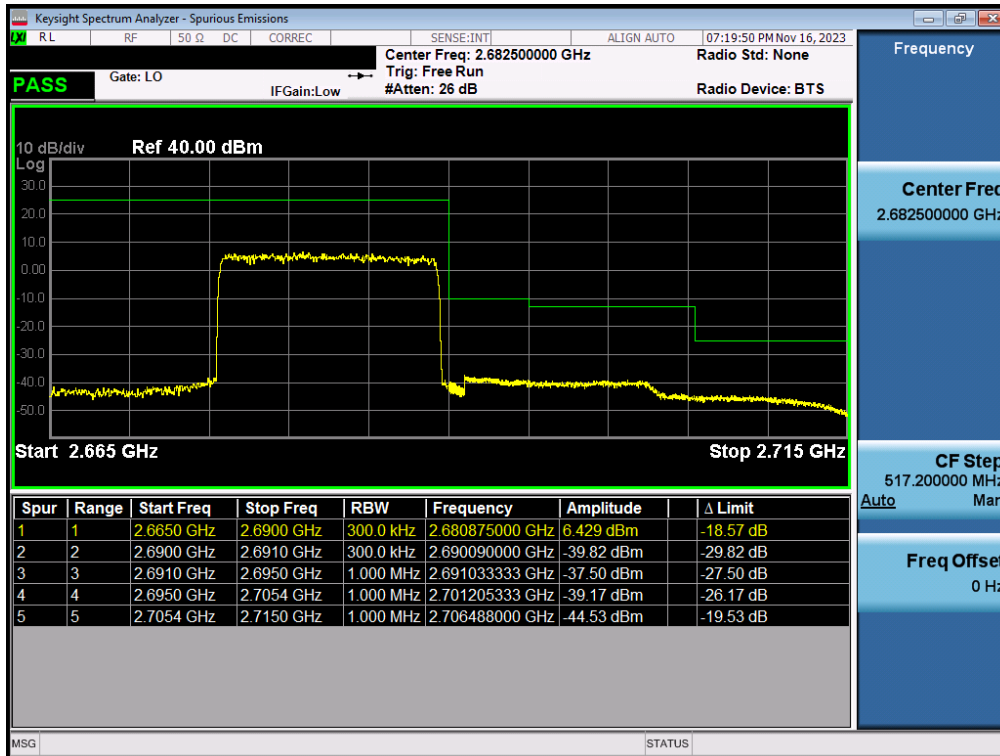
Plot 7-179. Upper ACP Plot (LTE Band 41(PC2) - 5MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# LTE Band 38 – Ant1



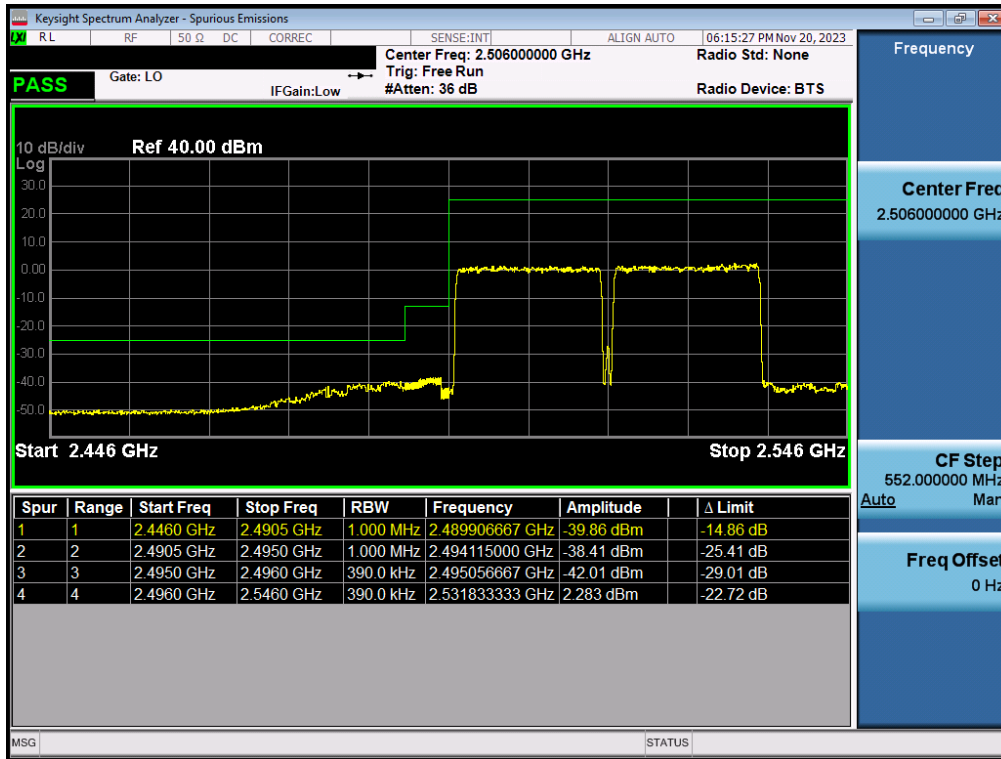
Plot 7-180. Lower ACP Plot (LTE Band 38 - 10MHz QPSK – Full RB - Ant1)



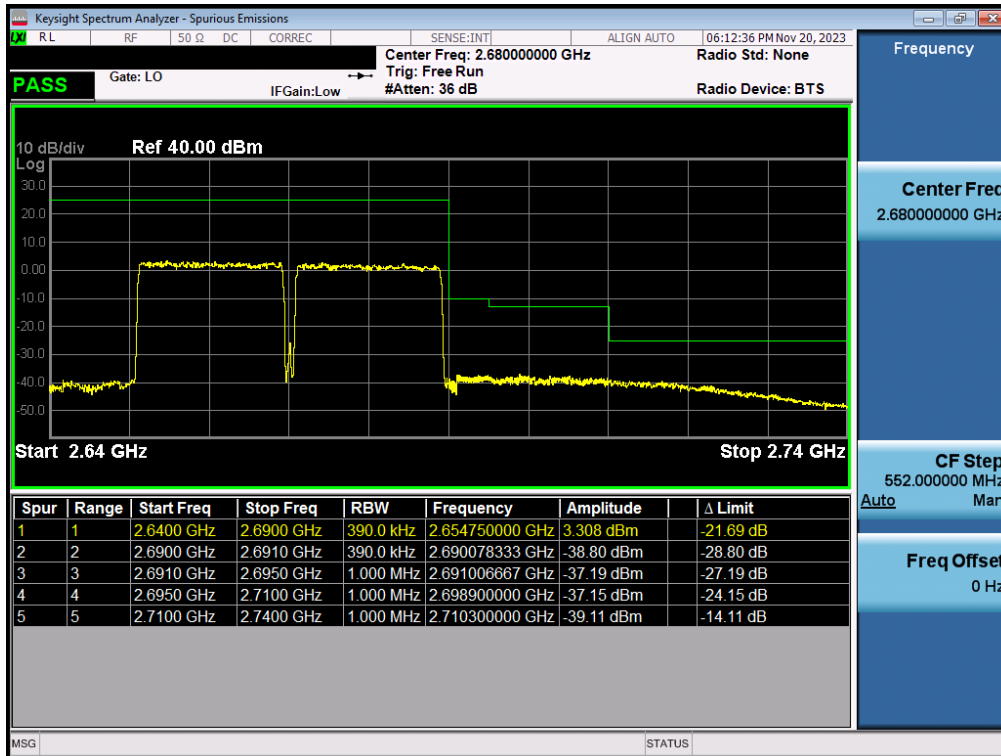
Plot 7-181. Upper ACP Plot (LTE Band 38 - 10MHz QPSK – Full RB - Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 129 of 193

# ULCA - LTE Band 41(PC2) – Ant1



Plot 7-182. Lower ACP Plot-A-MPR (ULCA LTE B41(PC2) - 20MHz QPSK – 1 RB - Ant1)



Plot 7-183. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – 1 RB - Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 130 of 193

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR n30	10 MHz	Low	Band Edge	-26.66	-13	-13.66
		Low	Extended	-42.60	-35	-7.60
		High	Band Edge	-26.53	-13	-13.53
		High	Extended	-53.17	-35	-18.17
	5 MHz	Low	Band Edge	-21.69	-13	-8.69
		Low	Extended	-14.06	-13	-1.06
		High	Band Edge	-20.92	-13	-7.92
		High	Extended	-51.69	-35	-16.69
NR n41	100 MHz	Low	Band Edge	-26.41	-13	-13.41
		High	Band Edge	-27.84	-10	-17.84
	90 MHz	Low	Band Edge	-27.09	-13	-14.09
		High	Band Edge	-29.30	-10	-19.30
	80 MHz	Low	Band Edge	-41.03	-25	-16.03
		High	Band Edge	-31.23	-10	-21.23
	70 MHz	Low	Band Edge	-39.78	-25	-14.78
		High	Band Edge	-33.84	-10	-23.84
	60 MHz	Low	Band Edge	-41.65	-25	-16.65
		High	Band Edge	-22.72	-10	-12.72
	50 MHz	Low	Band Edge	-40.75	-25	-15.75
		High	Band Edge	-47.63	-25	-22.63
	40 MHz	Low	Band Edge	-39.36	-25	-14.36
		High	Band Edge	-46.92	-25	-21.92
	30 MHz	Low	Band Edge	-39.17	-25	-14.17
		High	Band Edge	-42.76	-25	-17.76
	20 MHz	Low	Band Edge	-37.75	-25	-12.75
		High	Band Edge	-43.96	-25	-18.96
	15 MHz	Low	Band Edge	-37.24	-25	-12.24
		High	Band Edge	-43.88	-25	-18.88
	10 MHz	Low	Band Edge	-36.92	-25	-11.92
		High	Band Edge	-33.43	-10	-23.43

Table 7-18. Conducted Band Edge Results – NR – Ant1

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 131 of 193

## NR Band n30 – Ant1



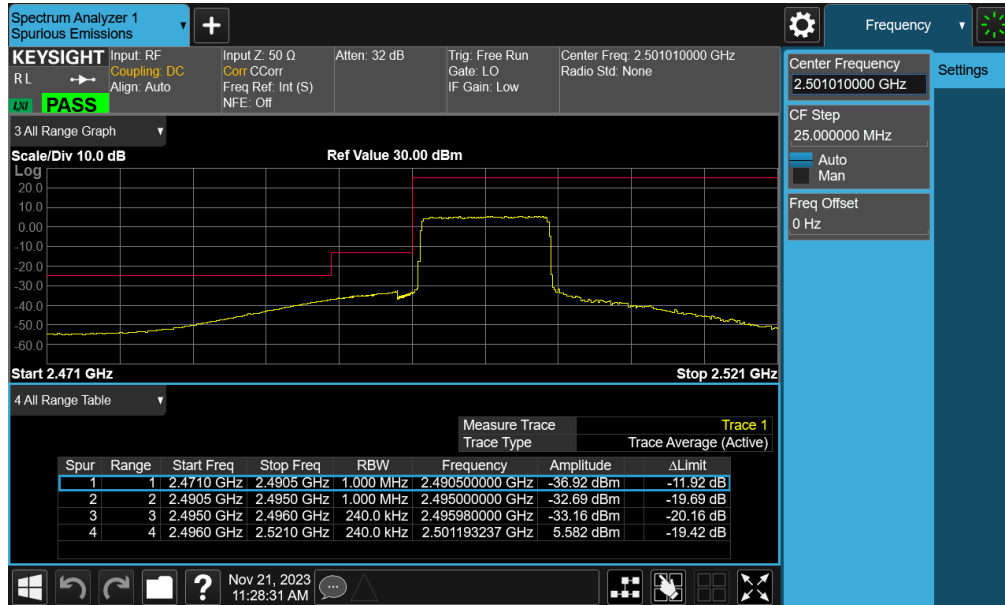
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 132 of 193



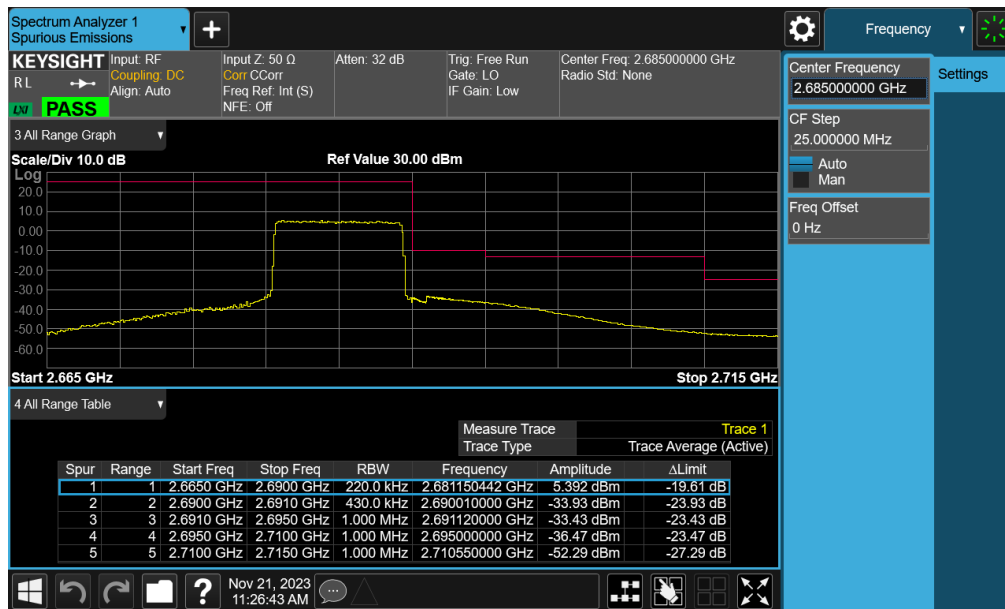
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 133 of 193



# NR Band n41 – ANT 1



Plot 7-188. Lower ACP Plot (NR Band n41 - 10MHz DFT-s-QPSK – Full RB Configuration)



Plot 7-189. Upper ACP Plot (NR Band n41 - 10MHz DFT-s-QPSK – Full RB Configuration)

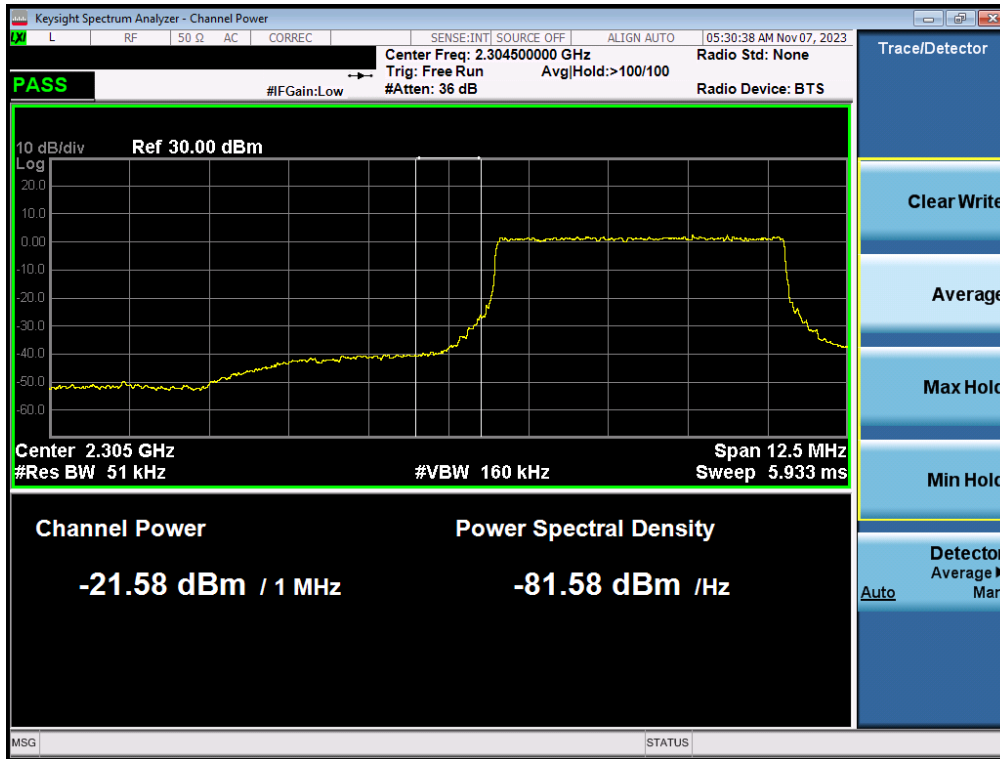
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 134 of 193

Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE B30	10 MHz	Low	Band Edge	-24.81	-13	-11.81
		Low	Extended	-42.30	-37	-5.30
		High	Band Edge	-24.48	-13	-11.48
		High	Extended	-31.92	-25	-6.92
	5 MHz	Low	Band Edge	-21.58	-13	-8.58
		Low	Extended	-15.89	-13	-2.89
		High	Band Edge	-20.29	-13	-7.29
		High	Extended	-45.94	-37	-8.93
LTE B7	20 MHz	Low	Band Edge	-36.62	-25	-11.62
		High	Band Edge	-32.45	-10	-22.45
	15 MHz	Low	Band Edge	-38.65	-25	-13.65
		High	Band Edge	-42.38	-25	-17.38
	10 MHz	Low	Band Edge	-24.27	-10	-14.27
		High	Band Edge	-40.05	-25	-15.05
	5 MHz	Low	Band Edge	-40.03	-25	-15.03
		High	Band Edge	-37.35	-25	-12.35
LTE B41 PC2	20 MHz	Low	Band Edge	-26.75	-25	-1.75
		High	Band Edge	-39.67	-25	-14.67
	15 MHz	Low	Band Edge	-28.01	-25	-3.01
		High	Band Edge	-36.24	-25	-11.24
	10 MHz	Low	Band Edge	-27.35	-25	-2.35
		High	Band Edge	-33.49	-25	-8.49
	5 MHz	Low	Band Edge	-19.05	-13	-6.05
		High	Band Edge	-30.96	-25	-5.96
LTE B38	20 MHz	Low	Band Edge	-41.04	-25	-16.04
		High	Band Edge	-29.70	-13	-16.70
	15 MHz	Low	Band Edge	-40.45	-25	-15.45
		High	Band Edge	-40.23	-25	-15.23
	10 MHz	Low	Band Edge	-39.23	-25	-14.23
		High	Band Edge	-36.70	-25	-11.70
	5 MHz	Low	Band Edge	-40.14	-25	-15.14
		High	Band Edge	-33.56	-25	-8.56

Table 7-19. Conducted Band Edge Test Results – LTE – Ant2

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# LTE Band 30 – Ant2

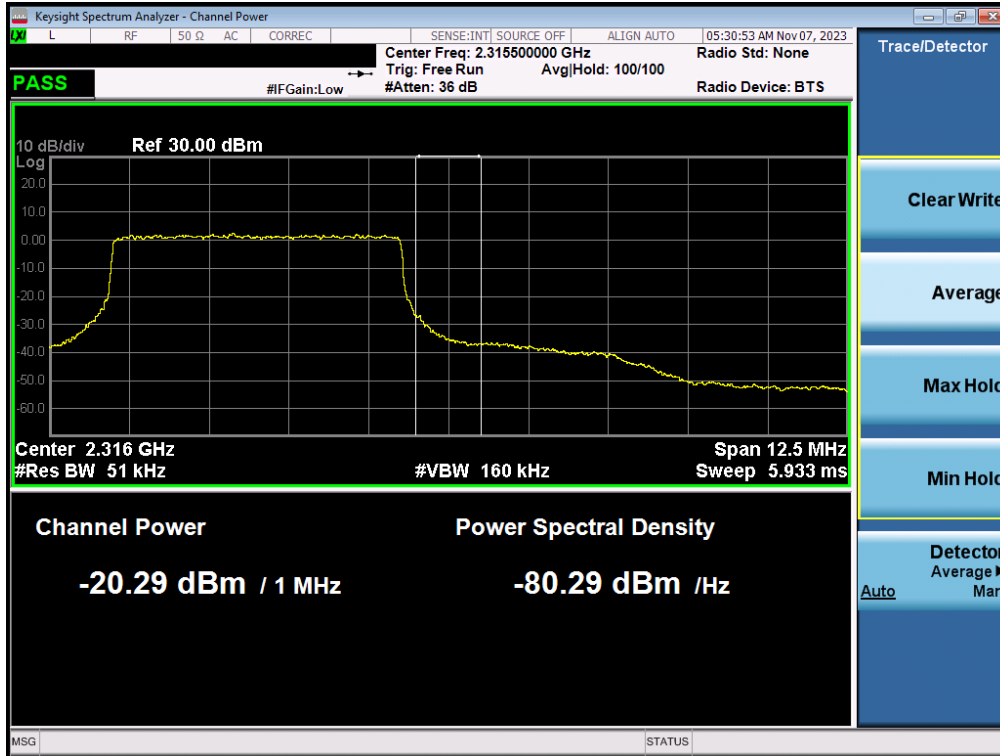


Plot 7-190. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)

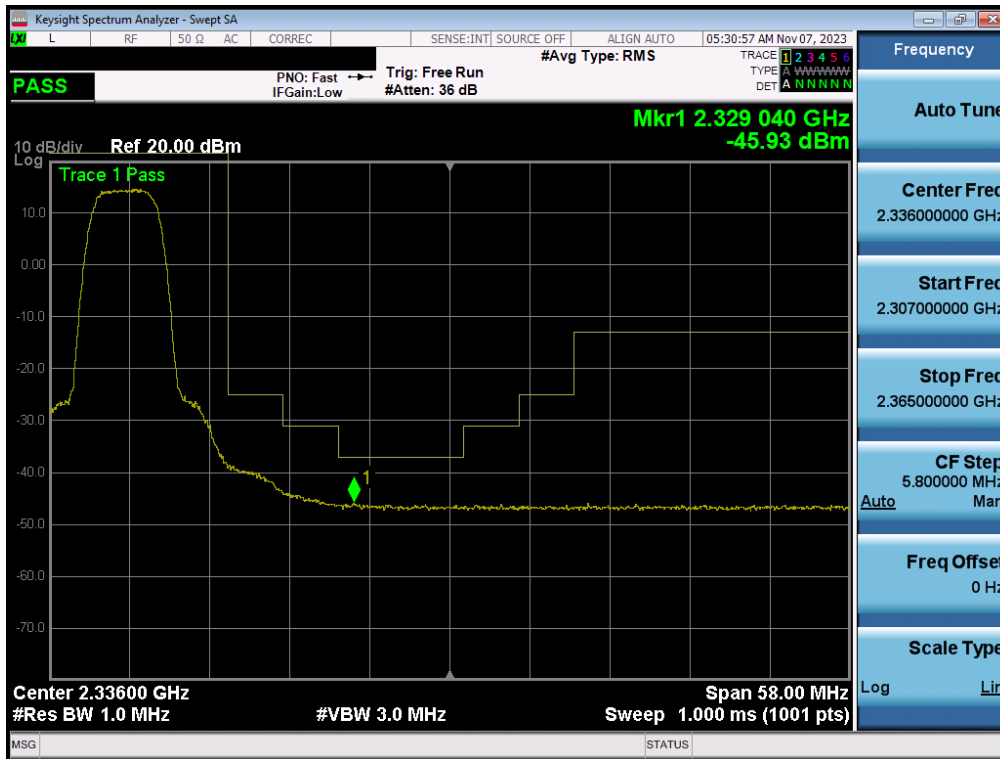


Plot 7-191. Extended Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 136 of 193



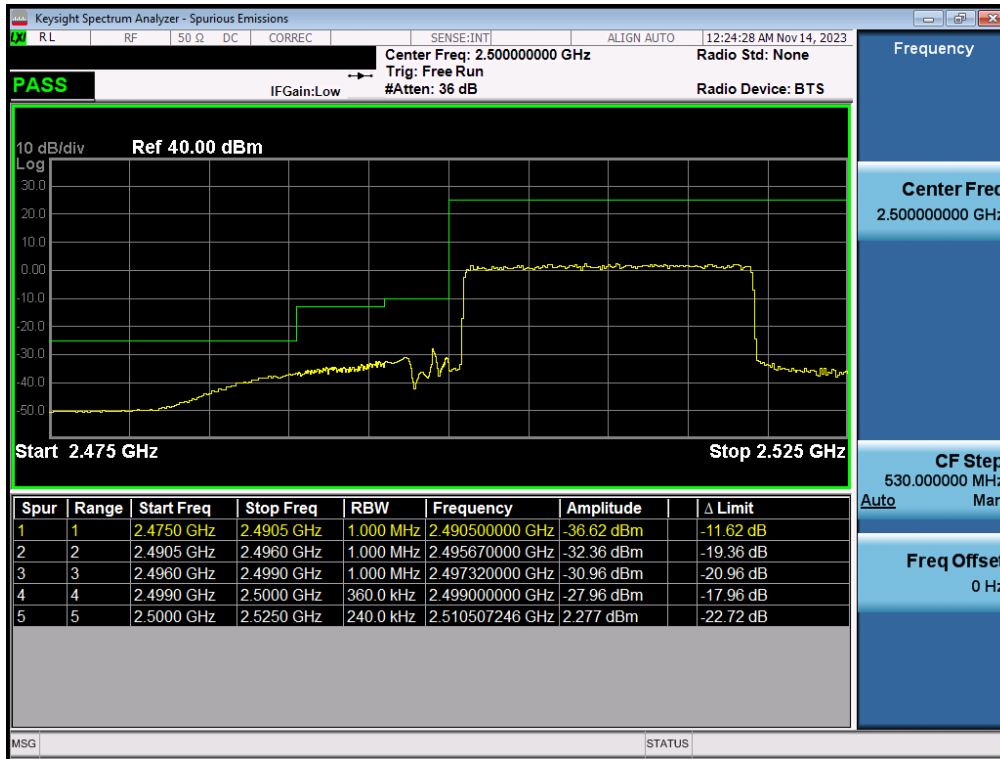
Plot 7-192. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)



Plot 7-193. Extended Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## LTE Band 7 – Ant2



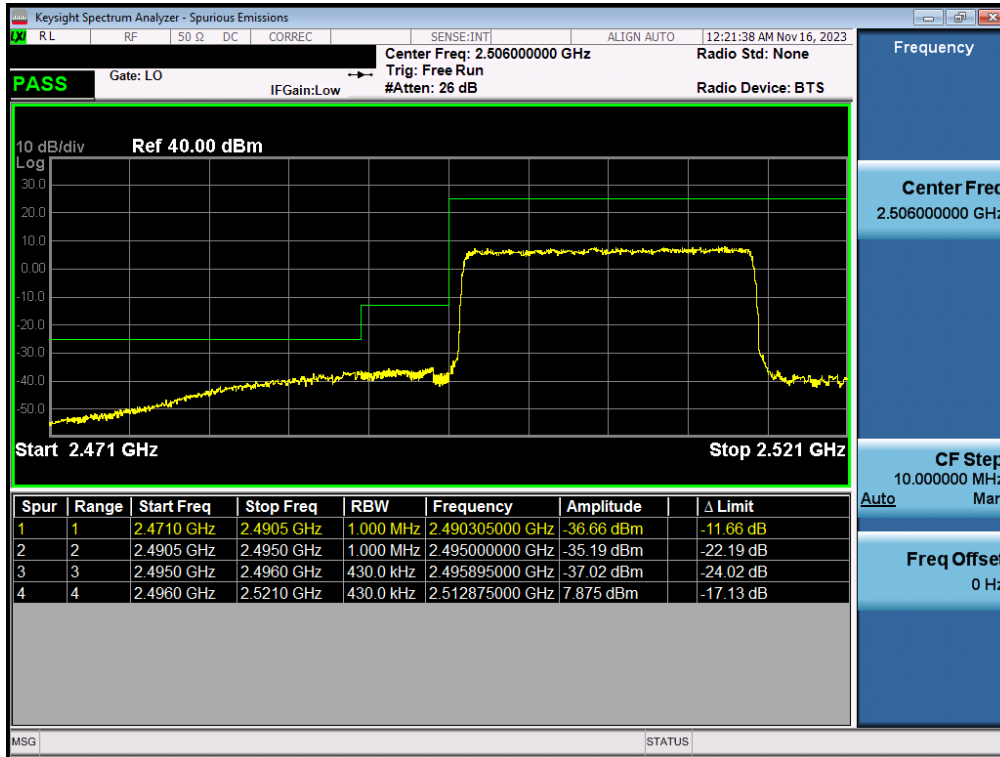
Plot 7-194. Lower ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant2)



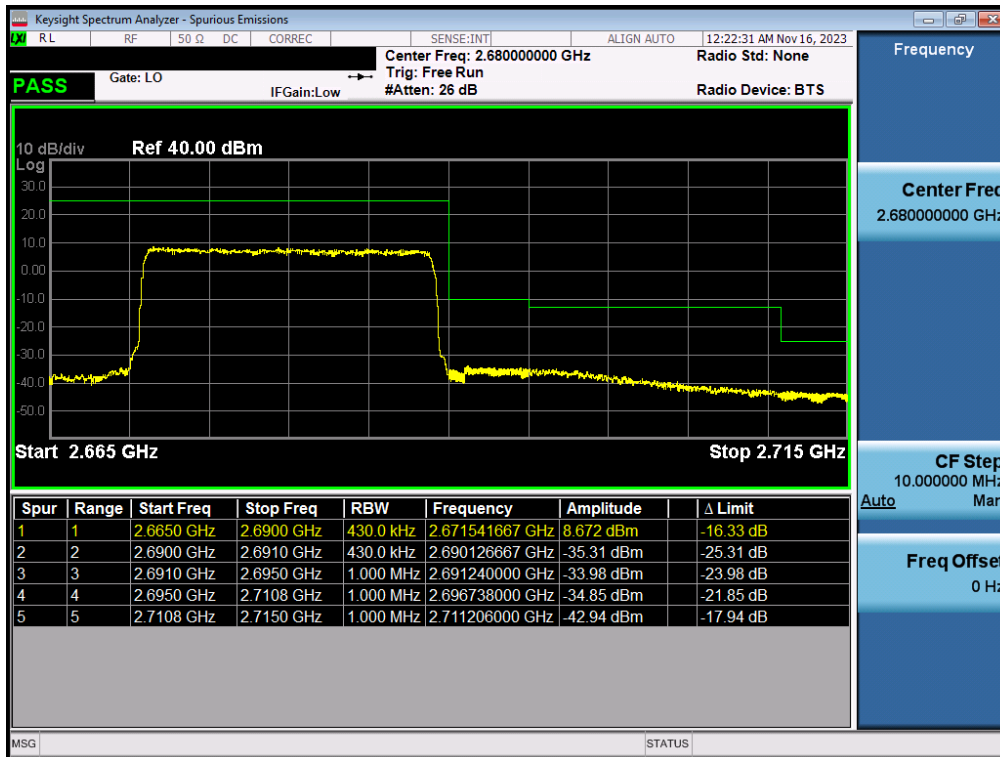
Plot 7-195. Upper ACP Plot (LTE Band 7 - 20MHz QPSK – Full RB - Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# LTE Band 41(PC2) – Ant2



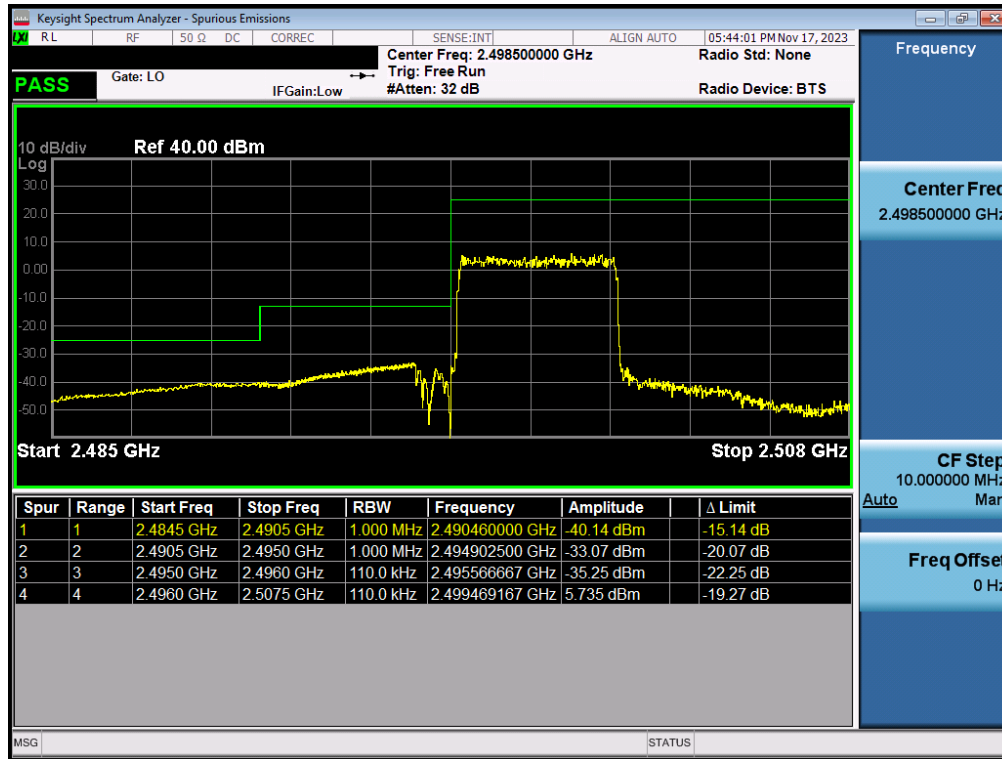
Plot 7-196. Lower ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant2)



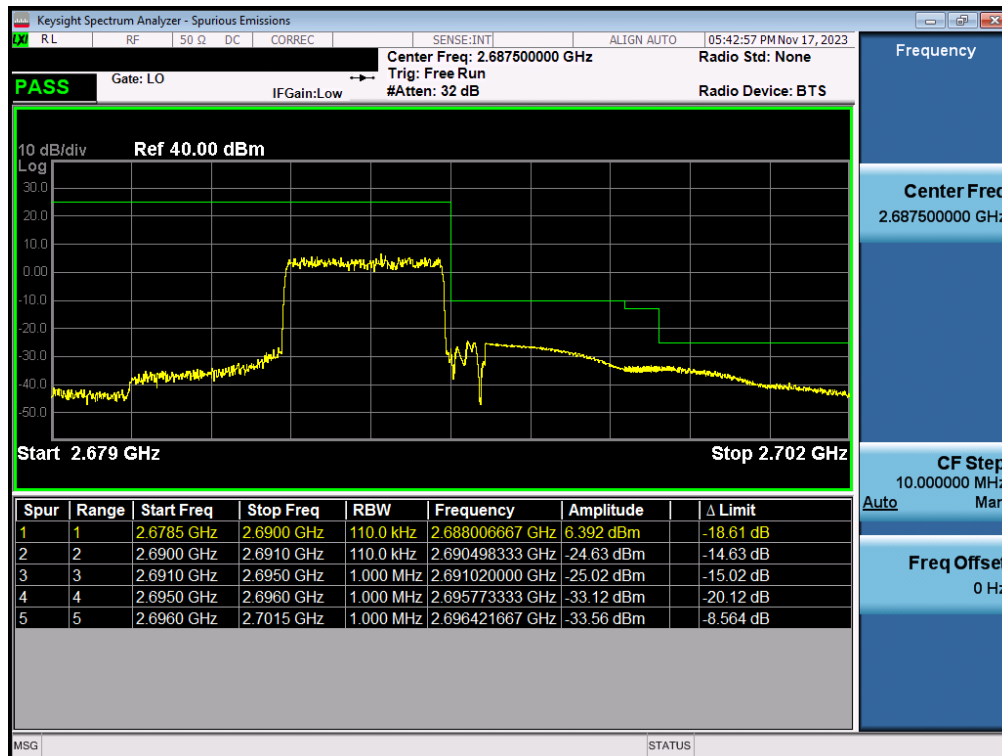
Plot 7-197. Upper ACP Plot (LTE Band 41(PC2) - 20MHz QPSK – Full RB - Ant2)

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## LTE Band 38 – Ant2



Plot 7-198. Lower ACP Plot (LTE Band 38 - 5MHz QPSK – Full RB - Ant2)



Plot 7-199. Upper ACP Plot (LTE Band 38 - 5MHz QPSK – Full RB - Ant2)

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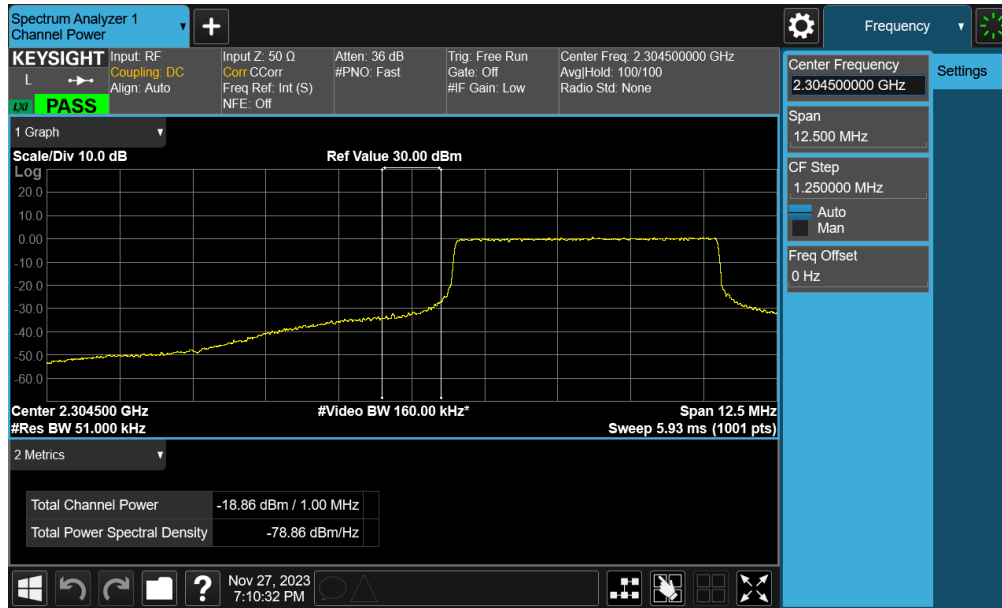
Mode	Bandwidth	Channel	Level [dBm]	Limit [dBm]	Margin [dB]
NR n30	10 MHz	Low	-21.50	-13	-8.50
		Low	-26.73	-25	-1.73
		High	-19.97	-13	-6.97
		High	-27.03	-25	-2.03
	5 MHz	Low	-18.86	-13	-5.86
		Low	-14.11	-13	-1.11
		High	-16.13	-13	-3.13
		High	-37.06	-25	-12.06
NR n41	100 MHz	Low	-27.29	-13	-14.29
		High	-29.19	-10	-19.19
	90 MHz	Low	-29.04	-13	-16.04
		High	-31.63	-10	-21.63
	80 MHz	Low	-42.84	-25	-17.84
		High	-35.82	-13	-22.82
	70 MHz	Low	-40.61	-25	-15.61
		High	-35.01	-13	-22.01
	60 MHz	Low	-40.77	-25	-15.77
		High	-26.12	-10	-16.12
	50 MHz	Low	-38.59	-25	-13.59
		High	-33.64	-13	-20.64
	40 MHz	Low	-37.45	-25	-12.45
		High	-31.44	-13	-18.44
	30 MHz	Low	-36.89	-25	-11.89
		High	-29.86	-13	-16.86
	20 MHz	Low	-35.45	-25	-10.45
		High	-37.72	-25	-12.72
	15 MHz	Low	-34.77	-25	-9.77
		High	-37.72	-25	-12.72
	10 MHz	Low	-34.27	-25	-9.27
		High	-24.78	-10	-14.78

Table 7-20. Conducted Band Edge Results - NR - Ant2

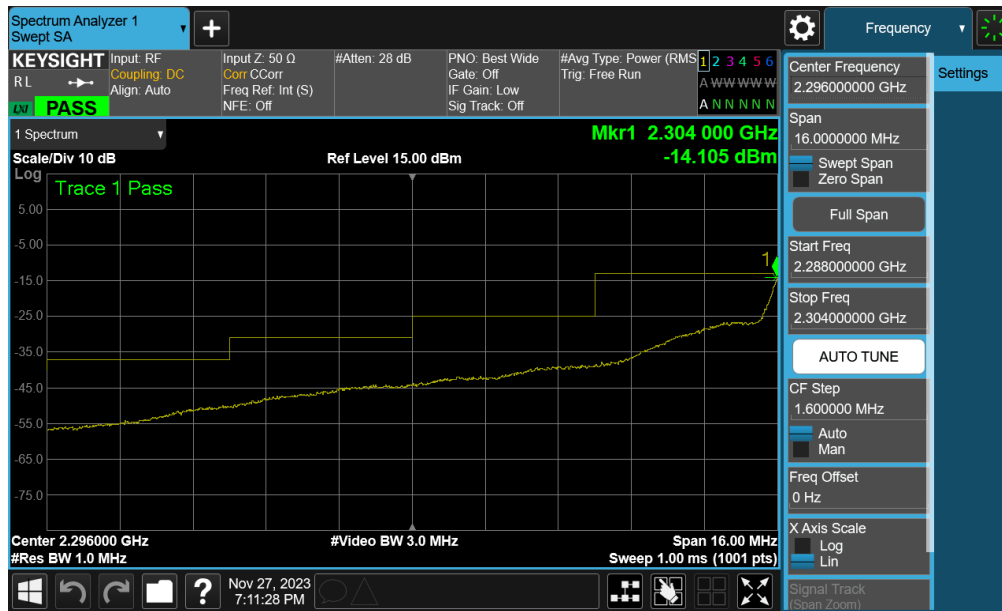
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n30 – Ant2

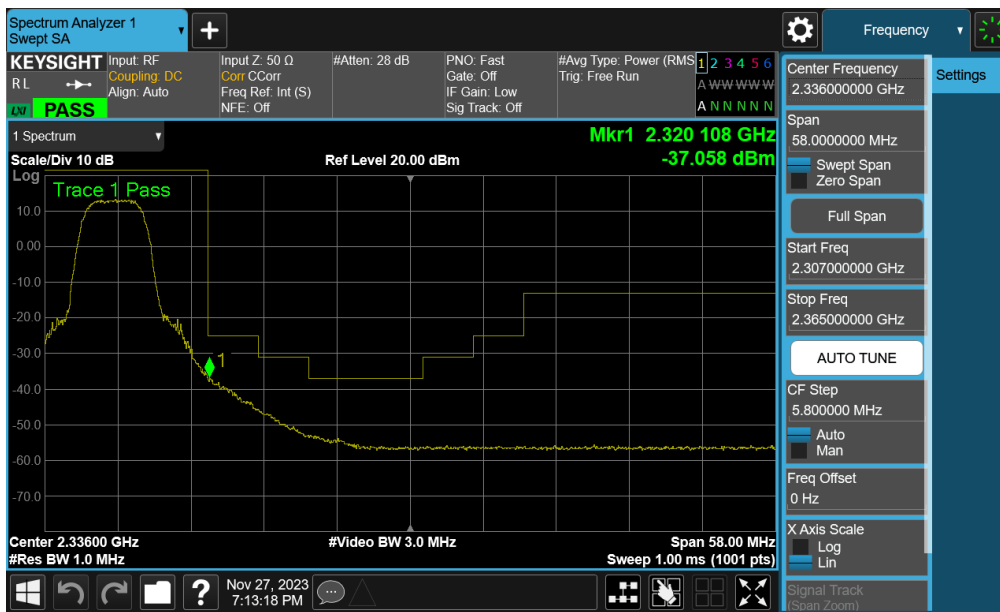
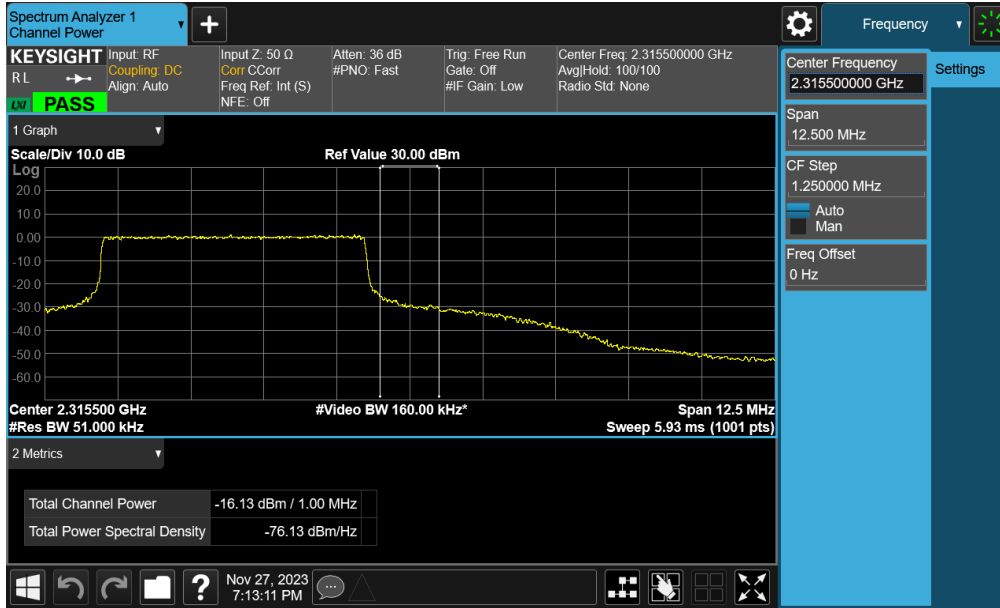


Plot 7-200. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant2)



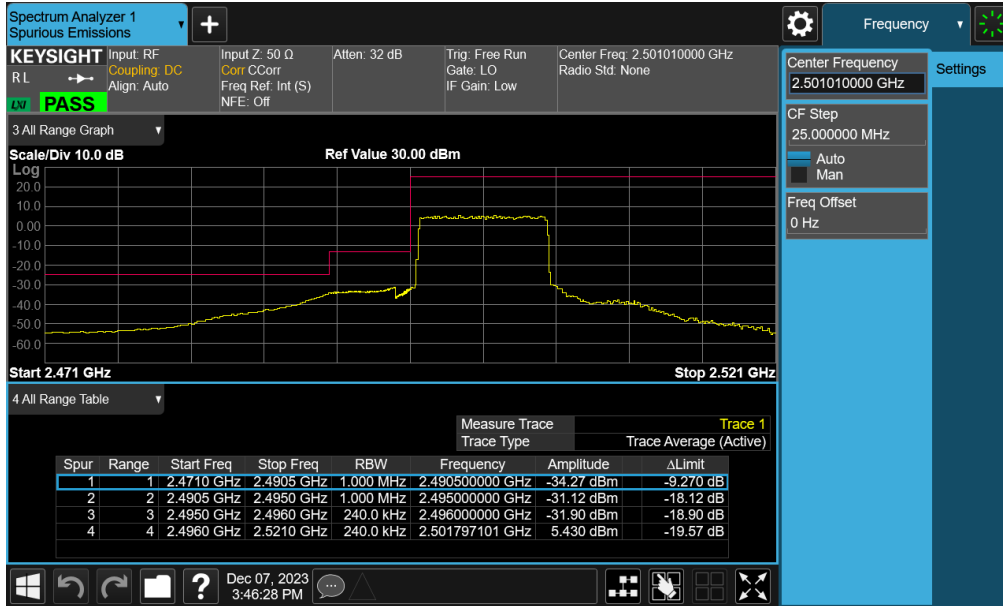
Plot 7-201. Extended Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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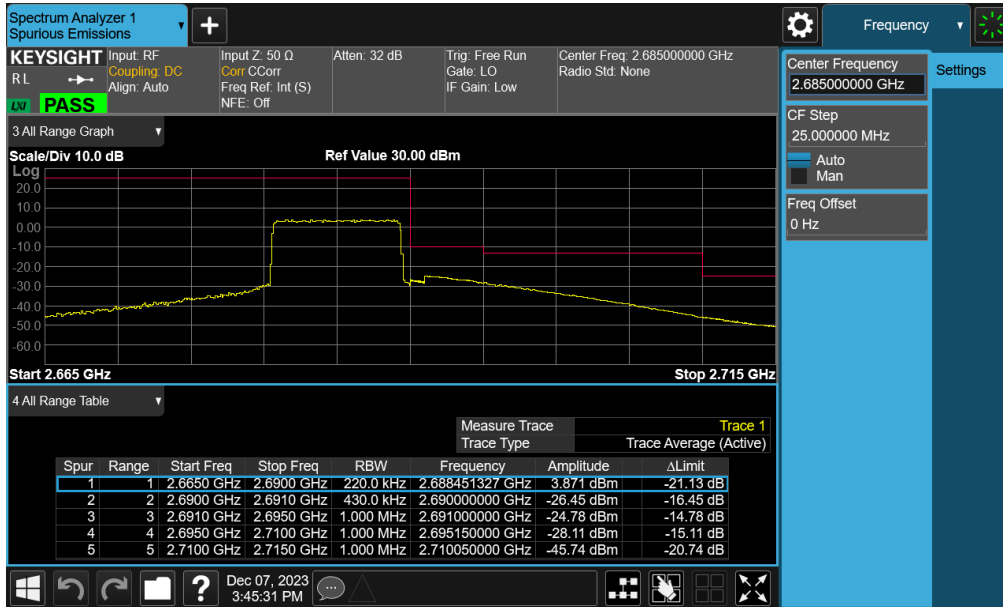


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# NR Band n41 – Ant2



Plot 7-204. Lower ACP Plot (NR Band n41 - 10MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)



Plot 7-205. Upper ACP Plot (NR Band n41 - 10MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)

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## 7.6 Radiated Power (EIRP)

### Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

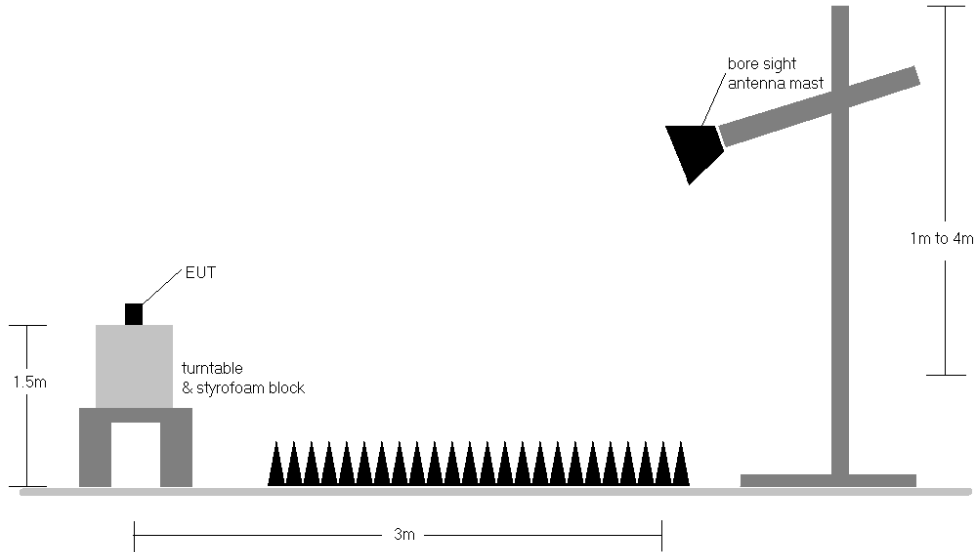
### Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $\geq$  2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”. Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

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**Test Setup**

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



**Figure 7-5. Radiated Test Setup >1GHz**

**Test Notes**

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	V	142	60	3.57	1 / 0	17.44	<b>21.01</b>	0.126	23.98	-2.97
	16-QAM	2310.0	V	142	60	3.57	1 / 0	16.81	20.38	0.109	23.98	-3.60
5 MHz	QPSK	2307.5	V	142	60	3.57	1 / 12	17.75	<b>21.32</b>	0.135	23.98	-2.66
	QPSK	2310.0	V	142	60	3.57	1 / 12	17.33	20.90	0.123	23.98	-3.08
	QPSK	2312.5	V	142	60	3.58	1 / 12	17.46	21.04	0.127	23.98	-2.94
	16-QAM	2312.5	V	142	60	3.58	1 / 0	17.00	20.58	0.114	23.98	-3.40
10 MHz	Opposite Pol.	2310.0	H	152	343	3.66	1 / 0	16.66	20.32	0.108	23.98	-3.66

Table 7-21. EIRP Data (LTE Band 30) – Ant 1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	H	108	225	4.18	1 / 50	17.59	21.77	0.150	33.01	-11.24
	QPSK	2535.0	H	101	218	4.19	1 / 0	17.90	<b>22.09</b>	0.162	33.01	-10.92
	QPSK	2560.0	H	100	233	4.15	1 / 0	16.95	21.10	0.129	33.01	-11.91
	16-QAM	2535.0	H	101	218	4.19	1 / 0	17.27	21.46	0.140	33.01	-11.55
15 MHz	QPSK	2507.5	H	108	225	4.17	1 / 74	17.71	21.88	0.154	33.01	-11.13
	QPSK	2535.0	H	101	218	4.19	1 / 37	18.11	<b>22.30</b>	0.170	33.01	-10.71
	QPSK	2562.5	H	100	233	4.14	1 / 0	17.12	21.25	0.133	33.01	-11.76
10 MHz	16-QAM	2535.0	H	101	218	4.19	1 / 37	17.11	21.30	0.135	33.01	-11.71
	QPSK	2505.0	H	108	225	4.17	1 / 25	17.78	<b>21.95</b>	0.157	33.01	-11.06
	QPSK	2535.0	H	101	218	4.19	1 / 49	17.76	21.95	0.157	33.01	-11.06
5 MHz	QPSK	2565.0	H	100	233	4.13	1 / 49	16.91	21.04	0.127	33.01	-11.97
	16-QAM	2535.0	H	101	218	4.19	1 / 49	17.07	21.26	0.134	33.01	-11.75
	QPSK	2502.5	H	108	225	4.17	1 / 12	17.67	21.85	0.153	33.01	-11.16
	QPSK	2535.0	H	101	218	4.19	1 / 0	17.96	<b>22.15</b>	0.164	33.01	-10.86
20 MHz	QPSK	2567.5	H	100	233	4.11	1 / 24	17.10	21.22	0.132	33.01	-11.79
	16-QAM	2502.5	H	108	225	4.17	1 / 0	17.31	21.48	0.141	33.01	-11.53
20 MHz	Opposite Pol.	2535.0	V	143	275	4.14	1 / 0	17.23	21.37	0.137	33.01	-11.64

Table 7-22. EIRP Data (LTE Band 7) -Ant 1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	115	224	4.17	1 / 50	21.04	<b>25.21</b>	0.332	33.01	-7.80
	QPSK	2593.0	H	106	223	4.00	1 / 99	20.75	24.75	0.298	33.01	-8.26
	QPSK	2680.0	H	100	228	4.50	1 / 50	19.96	24.46	0.279	33.01	-8.55
	16-QAM	2506.0	H	115	224	4.17	1 / 50	20.43	24.60	0.289	33.01	-8.41
15 MHz	QPSK	2503.5	H	115	224	4.17	1 / 37	21.27	25.44	0.350	33.01	-7.57
	QPSK	2593.0	H	106	223	4.00	1 / 0	20.68	24.68	0.294	33.01	-8.33
	QPSK	2682.5	H	100	228	4.51	1 / 37	20.05	24.56	0.286	33.01	-8.45
	16-QAM	2503.5	H	115	224	4.17	1 / 74	21.39	<b>25.56</b>	0.360	33.01	-7.45
10 MHz	QPSK	2501.0	H	115	224	4.17	1 / 0	21.06	<b>25.23</b>	0.334	33.01	-7.78
	QPSK	2593.0	H	106	223	4.00	1 / 0	20.76	24.76	0.299	33.01	-8.25
	QPSK	2685.0	H	100	228	4.52	1 / 0	19.91	24.43	0.277	33.01	-8.58
	16-QAM	2501.0	H	115	224	4.17	1 / 0	20.48	24.65	0.292	33.01	-8.36
5 MHz	QPSK	2498.5	H	115	224	4.16	1 / 12	21.36	<b>25.52</b>	0.357	33.01	-7.49
	QPSK	2593.0	H	106	223	4.00	1 / 12	21.07	25.07	0.321	33.01	-7.94
	QPSK	2687.5	H	100	228	4.53	1 / 12	20.13	24.66	0.293	33.01	-8.35
	16-QAM	2498.5	H	115	224	4.16	1 / 12	20.84	25.00	0.317	33.01	-8.01
20 MHz	Opposite Pol.	2506.0	V	100	73	4.15	1 / 50	18.59	22.74	0.188	33.01	-10.27

Table 7-23. EIRP Data (LTE Band 41(PC2)) -Ant 1

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	114	224	4.17	1 / 50	19.54	<b>23.71</b>	0.235	33.01	-9.30
	QPSK	2593.0	H	106	225	4.00	100 / 0	19.17	23.17	0.207	33.01	-9.84
	QPSK	2680.0	H	100	231	4.50	1 / 50	18.05	22.55	0.180	33.01	-10.46
	16-QAM	2506.0	H	114	224	4.17	1 / 50	18.63	<b>22.80</b>	0.191	33.01	-10.21
15 MHz	QPSK	2503.5	H	114	224	4.17	1 / 37	19.63	<b>23.80</b>	0.240	33.01	-9.21
	QPSK	2593.0	H	106	225	4.00	1 / 37	19.23	23.23	0.210	33.01	-9.78
	QPSK	2682.5	H	100	231	4.51	1 / 37	18.07	22.58	0.181	33.01	-10.43
	16-QAM	2503.5	H	114	224	4.17	1 / 37	18.56	<b>22.73</b>	0.188	33.01	-10.28
10 MHz	QPSK	2501.0	H	114	224	4.17	1 / 0	19.54	<b>23.71</b>	0.235	33.01	-9.30
	QPSK	2593.0	H	106	225	4.00	1 / 0	19.09	23.09	0.204	33.01	-9.92
	QPSK	2685.0	H	100	231	4.52	1 / 0	17.94	22.46	0.176	33.01	-10.55
	16-QAM	2501.0	H	114	224	4.17	1 / 0	18.52	<b>22.69</b>	0.186	33.01	-10.32
5 MHz	QPSK	2498.5	H	114	224	4.16	1 / 12	19.64	<b>23.80</b>	0.240	33.01	-9.21
	QPSK	2593.0	H	106	225	4.00	1 / 12	19.23	23.23	0.210	33.01	-9.78
	QPSK	2687.5	H	100	231	4.53	1 / 12	18.04	22.57	0.181	33.01	-10.44
	16-QAM	2498.5	H	114	224	4.16	1 / 12	18.58	<b>22.74</b>	0.188	33.01	-10.27

Table 7-24. EIRP Data (LTE Band 38) – Ant 1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turtable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	2310.0	V	148	305	3.57	1 / 26	17.29	20.86	0.122	23.98	-3.12
	QPSK	2310.0	V	148	305	3.57	1 / 26	17.41	<b>20.98</b>	0.125	23.98	-3.00
	16-QAM	2310.0	V	148	305	3.57	1 / 26	16.20	19.77	0.095	23.98	-4.21
5 MHz	$\pi/2$ BPSK	2307.5	V	148	305	3.57	1 / 23	16.90	20.46	0.111	23.98	-3.51
	$\pi/2$ BPSK	2310.0	V	148	305	3.57	1 / 12	16.90	20.47	0.111	23.98	-3.51
	$\pi/2$ BPSK	2312.5	V	148	305	3.58	1 / 1	17.43	21.01	0.126	23.98	-2.97
	QPSK	2307.5	V	148	305	3.57	1 / 23	17.05	20.62	0.115	23.98	-3.36
	QPSK	2310.0	V	148	305	3.57	1 / 12	17.33	20.91	0.123	23.98	-3.07
	QPSK	2312.5	V	148	305	3.58	1 / 1	17.51	<b>21.08</b>	0.128	23.98	-2.90
	16-QAM	2312.5	V	148	305	3.58	1 / 1	16.50	20.08	0.102	23.98	-3.90
10 MHz	QPSK (CP-OFDM)	2310.0	V	148	305	3.57	1 / 26	15.76	19.33	0.086	23.98	-4.65

Table 7-25. EIRP Data (NR Band n30) – Ant 1

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	2546.01	H	114	207	4.19	1 / 1	19.71	23.90	0.246	33.01	-9.11
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 1	18.98	22.98	0.199	33.01	-10.03
	π/2 BPSK	2640.00	H	129	203	4.31	1 / 136	17.51	21.82	0.152	33.01	-11.19
	QPSK	2546.01	H	114	207	4.19	1 / 1	19.79	<b>23.98</b>	0.250	33.01	-9.03
	QPSK	2592.99	H	114	207	4.00	1 / 1	18.96	22.96	0.198	33.01	-10.05
	QPSK	2640.00	H	129	203	4.31	1 / 136	17.25	21.56	0.143	33.01	-11.45
90 MHz	16-QAM	2546.01	H	114	207	4.19	1 / 1	19.05	23.24	0.211	33.01	-9.77
	π/2 BPSK	2541.00	H	114	207	4.19	1 / 243	19.71	23.90	0.246	33.01	-9.11
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 122	18.99	22.99	0.199	33.01	-10.02
	π/2 BPSK	2644.98	H	129	203	4.36	1 / 122	17.46	21.81	0.152	33.01	-11.20
	QPSK	2541.00	H	114	207	4.19	1 / 243	19.80	<b>23.99</b>	0.251	33.01	-9.02
	QPSK	2592.99	H	114	207	4.00	1 / 122	18.84	22.84	0.192	33.01	-10.17
80 MHz	QPSK	2644.98	H	129	203	4.36	1 / 122	17.36	21.71	0.148	33.01	-11.30
	16-QAM	2541.00	H	114	207	4.19	1 / 243	18.97	23.16	0.207	33.01	-9.85
	π/2 BPSK	2536.02	H	114	207	4.19	1 / 215	19.56	23.75	0.237	33.01	-9.26
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 108	19.00	23.00	0.199	33.01	-10.01
	π/2 BPSK	2649.99	H	129	203	4.40	1 / 108	17.34	21.74	0.149	33.01	-11.27
	QPSK	2536.02	H	114	207	4.19	1 / 215	19.58	23.77	0.238	33.01	-9.24
70 MHz	QPSK	2592.99	H	114	207	4.00	1 / 108	18.86	22.86	0.193	33.01	-10.15
	QPSK	2649.99	H	129	203	4.40	1 / 108	17.24	21.64	0.146	33.01	-11.37
	16-QAM	2536.02	H	114	207	4.19	1 / 215	18.80	22.99	0.199	33.01	-10.02
	π/2 BPSK	2531.01	H	114	207	4.18	1 / 187	19.49	23.67	0.233	33.01	-9.34
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 94	18.97	22.97	0.198	33.01	-10.04
	π/2 BPSK	2655.00	H	129	203	4.42	1 / 94	17.42	21.83	0.153	33.01	-11.18
60 MHz	QPSK	2531.01	H	114	207	4.18	1 / 187	19.70	<b>23.88</b>	0.244	33.01	-9.13
	QPSK	2592.99	H	114	207	4.00	1 / 94	18.87	22.87	0.194	33.01	-10.14
	QPSK	2655.00	H	129	203	4.42	1 / 94	17.13	21.54	0.143	33.01	-11.47
	16-QAM	2531.01	H	114	207	4.18	1 / 187	18.86	23.04	0.201	33.01	-9.97
	π/2 BPSK	2526.00	H	114	207	4.18	1 / 160	19.32	23.50	0.224	33.01	-9.51
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 81	19.01	23.01	0.200	33.01	-10.00
50 MHz	π/2 BPSK	2659.98	H	129	203	4.43	1 / 81	17.40	21.83	0.153	33.01	-11.18
	QPSK	2526.00	H	114	207	4.18	1 / 160	19.47	<b>23.65</b>	0.232	33.01	-9.36
	QPSK	2592.99	H	114	207	4.00	1 / 81	18.95	22.95	0.197	33.01	-10.06
	QPSK	2659.98	H	129	203	4.43	1 / 81	17.18	21.61	0.145	33.01	-11.40
	16-QAM	2526.00	H	114	207	4.18	1 / 160	18.63	22.81	0.191	33.01	-10.20
	π/2 BPSK	2521.02	H	114	207	4.18	1 / 66	19.47	23.65	0.232	33.01	-9.36
40 MHz	π/2 BPSK	2592.99	H	114	207	4.00	1 / 66	18.95	22.95	0.197	33.01	-10.06
	π/2 BPSK	2664.99	H	129	203	4.45	1 / 66	17.24	21.69	0.148	33.01	-11.32
	QPSK	2521.02	H	114	207	4.18	1 / 66	19.50	<b>23.68</b>	0.233	33.01	-9.33
	QPSK	2592.99	H	114	207	4.00	1 / 66	18.82	22.82	0.191	33.01	-10.19
	QPSK	2664.99	H	129	203	4.45	1 / 66	17.11	21.56	0.143	33.01	-11.45
	16-QAM	2521.02	H	114	207	4.18	1 / 66	18.62	22.80	0.191	33.01	-10.21
30 MHz	π/2 BPSK	2516.01	H	114	207	4.18	1 / 53	19.37	23.55	0.227	33.01	-9.46
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 53	19.00	23.00	0.199	33.01	-10.01
	π/2 BPSK	2670.00	H	129	203	4.47	1 / 1	17.28	21.74	0.149	33.01	-11.27
	QPSK	2516.01	H	114	207	4.18	1 / 53	19.49	<b>23.67</b>	0.233	33.01	-9.34
	QPSK	2592.99	H	114	207	4.00	1 / 53	18.90	22.90	0.195	33.01	-10.11
	QPSK	2670.00	H	129	203	4.47	1 / 1	17.13	21.59	0.144	33.01	-11.42
20 MHz	16-QAM	2516.01	H	114	207	4.18	1 / 53	18.73	22.91	0.195	33.01	-10.10
	π/2 BPSK	2511.00	H	114	207	4.18	1 / 39	19.40	23.57	0.228	33.01	-9.44
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 39	19.00	23.00	0.199	33.01	-10.01
	π/2 BPSK	2674.98	H	129	203	4.48	1 / 1	17.22	21.70	0.148	33.01	-11.31
	QPSK	2511.00	H	114	207	4.18	1 / 39	19.57	<b>23.74</b>	0.237	33.01	-9.27
	QPSK	2592.99	H	114	207	4.00	1 / 39	18.92	22.92	0.196	33.01	-10.09
15 MHz	QPSK	2674.98	H	129	203	4.48	1 / 1	17.05	21.53	0.142	33.01	-11.48
	16-QAM	2511.00	H	114	207	4.18	1 / 39	18.76	22.93	0.196	33.01	-10.08
	π/2 BPSK	2506.02	H	114	207	4.17	1 / 25	19.38	23.55	0.227	33.01	-9.46
	π/2 BPSK	2592.99	H	114	207	4.00	1 / 25	19.00	23.00	0.199	33.01	-10.01
	π/2 BPSK	2679.99	H	129	203	4.50	1 / 1	17.24	21.74	0.149	33.01	-11.27
	QPSK	2506.02	H	114	207	4.17	1 / 25	19.50	<b>23.67</b>	0.233	33.01	-9.34
10 MHz	QPSK	2592.99	H	114	207	4.00	1 / 25	18.90	22.90	0.195	33.01	-10.11
	QPSK	2679.99	H	129	203	4.50	1 / 1	17.09	21.59	0.144	33.01	-11.42
	16-QAM	2506.02	H	114	207	4.17	1 / 25	18.74	22.91	0.195	33.01	-10.10
	π/2 BPSK	2506.02	H	114	207	4.17	1/36	19.40	23.57	0.228	33.01	-9.44
	π/2 BPSK	2592.99	H	114	207	4.00	1/19	18.97	22.97	0.198	33.01	-10.04
	π/2 BPSK	2679.99	H	129	203	4.50	1/19	16.98	21.48	0.141	33.01	-11.53
100 MHz	QPSK	2506.02	H	114	207	4.17	1/36	19.50	<b>23.67</b>	0.233	33.01	-9.34
	QPSK	2592.99	H	114	207	4.00	1/19	18.92	22.92	0.196	33.01	-10.09
	QPSK	2679.99	H	129	203	4.50	1/19	16.89	21.39	0.138	33.01	-11.62
	16-QAM	2506.02	H	114	207	4.17	1/36	18.63	22.80	0.191	33.01	-10.21
	π/2 BPSK	2506.02	H	114	207	4.17	1/1	19.38	23.55	0.227	33.01	-9.46
	π/2 BPSK	2592.99	H	114	207	4.00	1/12	18.98	22.98	0.199	33.01	-10.03
100 MHz	π/2 BPSK	2679.99	H	129	203	4.50	1/12	16.94	21.44	0.139	33.01	-11.57
	QPSK	2506.02	H	114	207	4.17	1/1	19.49	23.66	0.232	33.01	-9.35
	QPSK	2592.99	H	114	207	4.00	1/12	18.90	22.90	0.195	33.01	-10.11
	QPSK	2679.99	H	129	203	4.50	1/12	16.77	21.27	0.134	33.01	-11.74
100 MHz	16-QAM	2506.02	H	114	207	4.17	1/1	18.77	22.94	0.197	33.01	-10.07
100 MHz	QPSK (CP-OFDM)	2546.01	H	114	207	4.19	1 / 1	17.90	22.09	0.162	33.01	-10.92

Table 7-26. EIRP Data (NR Band n41) – Ant 1

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 149 of 193





Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	QPSK	2310.0	H	X	112	341	3.66	1 / 0	15.28	<b>18.94</b>	0.078	23.98	-5.04
	16-QAM	2310.0	H	X	112	341	3.66	1 / 0	14.54	18.20	0.066	23.98	-5.78
5 MHz	QPSK	2307.5	H	X	112	341	3.66	1 / 12	15.64	<b>19.30</b>	0.085	23.98	-4.68
	QPSK	2310.0	H	X	112	341	3.66	1 / 12	15.44	19.10	0.081	23.98	-4.88
	QPSK	2312.5	H	X	112	341	3.67	1 / 24	15.29	18.96	0.079	23.98	-5.02
	16-QAM	2307.5	H	X	112	341	3.66	1 / 12	14.77	18.42	0.070	23.98	-5.56
	16-QAM	2310.0	H	X	112	341	3.66	1 / 24	14.65	18.31	0.068	23.98	-5.66
	16-QAM	2312.5	H	X	112	341	3.67	1 / 24	14.62	18.29	0.067	23.98	-5.69
10 MHz	Opposite Pol.	2310.0	V	Y	114	70	3.66	1 / 49	14.07	17.73	0.059	23.98	-6.25

Table 7-27. EIRP Data (LTE Band 30) – Ant 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2510.0	H	X	105	329	4.18	1 / 50	14.08	18.26	0.067	33.01	-14.75
	QPSK	2535.0	H	X	100	328	4.19	1 / 0	14.60	<b>18.79</b>	0.076	33.01	-14.22
	QPSK	2560.0	H	X	116	325	4.15	1 / 50	14.44	18.59	0.072	33.01	-14.42
	16-QAM	2535.0	H	X	100	328	4.19	1 / 0	13.86	18.05	0.064	33.01	-14.96
15 MHz	QPSK	2507.5	H	X	105	329	4.17	1 / 0	14.11	18.29	0.067	33.01	-14.72
	QPSK	2535.0	H	X	100	328	4.19	1 / 74	14.62	<b>18.81</b>	0.076	33.01	-14.20
	QPSK	2562.5	H	X	116	325	4.14	1 / 0	14.56	18.69	0.074	33.01	-14.32
	16-QAM	2535.0	H	X	100	328	4.19	1 / 74	14.11	18.30	0.068	33.01	-14.71
10 MHz	QPSK	2505.0	H	X	105	329	4.17	1 / 49	14.06	18.23	0.067	33.01	-14.78
	QPSK	2535.0	H	X	100	328	4.19	1 / 49	14.67	<b>18.86</b>	0.077	33.01	-14.15
	QPSK	2565.0	H	X	116	325	4.13	1 / 49	14.70	18.82	0.076	33.01	-14.19
	16-QAM	2535.0	H	X	100	328	4.19	1 / 25	13.92	18.10	0.065	33.01	-14.91
5 MHz	QPSK	2502.5	H	X	105	329	4.17	1 / 24	14.03	18.20	0.066	33.01	-14.81
	QPSK	2535.0	H	X	100	328	4.19	1 / 12	14.78	<b>18.96</b>	0.079	33.01	-14.05
	QPSK	2567.5	H	X	116	325	4.11	1 / 12	14.73	18.85	0.077	33.01	-14.16
	16-QAM	2535.0	H	X	100	328	4.19	1 / 0	13.90	18.09	0.064	33.01	-14.92

Table 7-28. EIRP Data (LTE Band 7) -Ant 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	X	100	320	4.17	1 / 0	16.01	20.18	0.104	33.01	-12.83
	QPSK	2593.0	H	X	103	318	4.00	1 / 99	17.04	21.04	0.127	33.01	-11.97
	QPSK	2680.0	H	X	100	323	4.50	1 / 99	17.16	<b>21.66</b>	0.147	33.01	-11.35
	16-QAM	2680.0	H	X	100	323	4.50	1 / 99	16.68	21.18	0.131	33.01	-11.83
15 MHz	QPSK	2503.5	H	X	100	320	4.17	1 / 0	16.05	20.22	0.105	33.01	-12.79
	QPSK	2593.0	H	X	103	318	4.00	1 / 0	17.10	21.10	0.129	33.01	-11.91
	QPSK	2682.5	H	X	100	323	4.51	1 / 0	17.08	<b>21.59</b>	0.144	33.01	-11.42
	16-QAM	2682.5	H	X	100	323	4.51	1 / 0	16.46	20.97	0.125	33.01	-12.04
10 MHz	QPSK	2501.0	H	X	100	320	4.17	1 / 25	16.04	20.21	0.105	33.01	-12.80
	QPSK	2593.0	H	X	103	318	4.00	1 / 0	17.05	21.05	0.127	33.01	-11.96
	QPSK	2685.0	H	X	100	323	4.52	1 / 0	17.10	<b>21.62</b>	0.145	33.01	-11.39
	16-QAM	2685.0	H	X	100	323	4.52	1 / 25	16.73	21.25	0.133	33.01	-11.76
5 MHz	QPSK	2498.5	H	X	100	320	4.16	1 / 24	16.09	20.25	0.106	33.01	-12.76
	QPSK	2593.0	H	X	103	318	4.00	1 / 24	17.00	21.00	0.126	33.01	-12.01
	QPSK	2687.5	H	X	100	323	4.53	1 / 24	17.04	<b>21.57</b>	0.144	33.01	-11.44
	16-QAM	2687.5	H	X	100	323	4.53	1 / 24	16.63	21.16	0.131	33.01	-11.85

Table 7-29. EIRP Data (LTE Band 41(PC2)) -Ant 2

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 150 of 193

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	2506.0	H	X	100	324	4.17	1 / 0	14.01	18.18	0.066	33.01	-14.83
	QPSK	2593.0	H	X	100	326	4.00	1 / 99	14.36	18.36	0.069	33.01	-14.65
	QPSK	2680.0	H	X	100	316	4.50	1 / 99	13.96	<b>18.46</b>	0.070	33.01	-14.55
	16-QAM	2680.0	H	X	100	316	4.50	1 / 99	13.50	18.00	0.063	33.01	-15.01
15 MHz	QPSK	2503.5	H	X	100	324	4.17	1 / 0	13.99	18.16	0.066	33.01	-14.85
	QPSK	2593.0	H	X	100	326	4.00	1 / 0	14.35	18.35	0.068	33.01	-14.66
	QPSK	2682.5	H	X	100	316	4.51	1 / 0	13.89	<b>18.40</b>	0.069	33.01	-14.61
	16-QAM	2503.5	H	X	100	324	4.17	1 / 0	13.81	17.98	0.063	33.01	-15.03
10 MHz	QPSK	2501.0	H	X	100	324	4.17	1 / 0	14.04	18.21	0.066	33.01	-14.80
	QPSK	2593.0	H	X	100	326	4.00	1 / 0	14.22	18.22	0.066	33.01	-14.79
	QPSK	2685.0	H	X	100	316	4.52	1 / 0	13.93	<b>18.45</b>	0.070	33.01	-14.56
	16-QAM	2685.0	H	X	100	316	4.52	1 / 0	13.44	17.96	0.063	33.01	-15.05
5 MHz	QPSK	2498.5	H	X	100	324	4.16	1 / 12	14.07	18.23	0.067	33.01	-14.78
	QPSK	2593.0	H	X	100	326	4.00	1 / 12	14.35	18.35	0.068	33.01	-14.66
	QPSK	2687.5	H	X	100	316	4.53	1 / 0	13.89	<b>18.42</b>	0.070	33.01	-14.59
	16-QAM	2498.5	H	X	100	324	4.16	1 / 0	13.88	18.04	0.064	33.01	-14.97

Table 7-30. EIRP Data (LTE Band 38) – Ant 2

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
10 MHz	$\pi/2$ BPSK	2310.0	V	Y	118	34	3.57	1 / 1	15.05	<b>18.62</b>	0.073	23.98	-5.36
	QPSK	2310.0	V	Y	118	34	3.57	1 / 1	15.03	18.60	0.072	23.98	-5.38
	16-QAM	2310.0	V	Y	118	34	3.57	1 / 1	12.91	16.48	0.044	23.98	-7.50
5 MHz	$\pi/2$ BPSK	2307.5	V	Y	118	34	3.57	1 / 1	15.08	18.65	0.073	23.98	-5.33
	$\pi/2$ BPSK	2310.0	V	Y	118	34	3.57	1 / 23	15.05	18.62	0.073	23.98	-5.36
	$\pi/2$ BPSK	2312.5	V	Y	118	34	3.58	1 / 12	15.05	18.62	0.073	23.98	-5.36
	QPSK	2307.5	V	Y	118	34	3.57	1 / 1	15.04	18.61	0.073	23.98	-5.37
	QPSK	2310.0	V	Y	118	34	3.57	1 / 23	15.09	<b>18.66</b>	0.074	23.98	-5.32
	QPSK	2312.5	V	Y	118	34	3.58	1 / 12	15.08	18.66	0.073	23.98	-5.32
	16-QAM	2307.5	V	Y	118	34	3.57	1 / 1	13.15	16.72	0.047	23.98	-7.26
	16-QAM	2310.0	V	Y	118	34	3.57	1 / 23	13.02	16.59	0.046	23.98	-7.39
10 MHz	16-QAM	2312.5	V	Y	118	34	3.58	1 / 12	12.87	16.45	0.044	23.98	-7.53
10 MHz	QPSK (CP-OFDM)	2310.0	V	Y	118	34	3.57	1 / 1	13.33	16.90	0.049	23.98	-7.08

Table 7-31. EIRP Data (NR Band n30) – Ant 2

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 151 of 193

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	2546.01	H	X	100	319	4.19	1 / 136	17.00	21.19	0.132	33.01	-11.82
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 271	17.44	21.44	0.139	33.01	-11.57
	π/2 BPSK	2640.00	H	X	106	323	4.31	1 / 136	17.77	22.08	0.162	33.01	-10.93
	QPSK	2546.01	H	X	100	319	4.19	1 / 136	17.13	21.32	0.136	33.01	-11.69
	QPSK	2592.99	H	X	100	324	4.00	1 / 271	17.40	21.40	0.138	33.01	-11.61
	QPSK	2640.00	H	X	106	323	4.31	1 / 136	17.72	22.03	0.160	33.01	-10.98
90 MHz	16-QAM	2640.00	H	X	106	323	4.31	1 / 136	16.70	21.01	0.126	33.01	-12.00
	π/2 BPSK	2541.00	H	X	100	319	4.19	1 / 1	16.88	21.07	0.128	33.01	-11.94
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 243	17.40	21.40	0.138	33.01	-11.61
	π/2 BPSK	2644.98	H	X	106	323	4.36	1 / 122	17.75	22.10	0.162	33.01	-10.91
	QPSK	2541.00	H	X	100	319	4.19	1 / 1	17.07	21.26	0.134	33.01	-11.75
	QPSK	2592.99	H	X	100	324	4.00	1 / 243	17.31	21.31	0.135	33.01	-11.70
80 MHz	QPSK	2644.98	H	X	106	323	4.36	1 / 122	17.71	22.06	0.161	33.01	-10.95
	QPSK	2644.98	H	X	106	323	4.36	1 / 122	16.71	21.06	0.128	33.01	-11.95
	π/2 BPSK	2536.02	H	X	100	319	4.19	1 / 1	16.93	21.12	0.129	33.01	-11.89
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 215	17.32	21.32	0.135	33.01	-11.69
	π/2 BPSK	2649.99	H	X	106	323	4.40	1 / 108	17.71	22.11	0.163	33.01	-10.90
	QPSK	2536.02	H	X	100	319	4.19	1 / 1	17.17	21.36	0.137	33.01	-11.65
70 MHz	QPSK	2592.99	H	X	100	324	4.00	1 / 215	17.30	21.30	0.135	33.01	-11.71
	QPSK	2649.99	H	X	106	323	4.40	1 / 108	17.66	22.06	0.161	33.01	-10.95
	16-QAM	2649.99	H	X	106	323	4.40	1 / 108	16.83	21.23	0.133	33.01	-11.78
	π/2 BPSK	2531.01	H	X	100	319	4.18	1 / 1	16.94	21.12	0.129	33.01	-11.89
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 187	17.30	21.30	0.135	33.01	-11.71
	π/2 BPSK	2655.00	H	X	106	323	4.42	1 / 94	17.82	22.23	0.167	33.01	-10.78
60 MHz	QPSK	2531.01	H	X	100	319	4.18	1 / 1	17.06	21.24	0.133	33.01	-11.77
	QPSK	2592.99	H	X	100	324	4.00	1 / 187	17.26	21.26	0.134	33.01	-11.75
	QPSK	2655.00	H	X	106	323	4.42	1 / 94	17.66	22.07	0.161	33.01	-10.94
	16-QAM	2655.00	H	X	106	323	4.42	1 / 94	16.83	21.24	0.133	33.01	-11.77
	π/2 BPSK	2526.00	H	X	100	319	4.18	1 / 1	16.98	21.16	0.131	33.01	-11.85
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 81	17.40	21.40	0.138	33.01	-11.61
50 MHz	π/2 BPSK	2659.98	H	X	106	323	4.43	1 / 81	17.84	22.27	0.169	33.01	-10.74
	QPSK	2526.00	H	X	100	319	4.18	1 / 1	17.11	21.29	0.135	33.01	-11.72
	QPSK	2592.99	H	X	100	324	4.00	1 / 81	17.27	21.27	0.134	33.01	-11.74
	QPSK	2659.98	H	X	106	323	4.43	1 / 81	17.67	22.10	0.162	33.01	-10.91
	16-QAM	2659.98	H	X	106	323	4.43	1 / 81	16.85	21.28	0.134	33.01	-11.73
	π/2 BPSK	2521.02	H	X	100	319	4.18	1 / 1	17.02	21.20	0.132	33.01	-11.81
40 MHz	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 131	17.29	21.29	0.135	33.01	-11.72
	π/2 BPSK	2664.99	H	X	106	323	4.45	1 / 66	17.74	22.19	0.166	33.01	-10.82
	QPSK	2521.02	H	X	100	319	4.18	1 / 1	17.19	21.37	0.137	33.01	-11.64
	QPSK	2592.99	H	X	100	324	4.00	1 / 131	17.25	21.25	0.133	33.01	-11.76
	QPSK	2664.99	H	X	106	323	4.45	1 / 66	17.66	22.11	0.163	33.01	-10.90
	16-QAM	2664.99	H	X	106	323	4.45	1 / 66	16.81	21.26	0.134	33.01	-11.75
30 MHz	π/2 BPSK	2516.01	H	X	100	319	4.18	1 / 1	17.03	21.21	0.132	33.01	-11.80
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 53	17.38	21.38	0.137	33.01	-11.63
	π/2 BPSK	2670.00	H	X	106	323	4.47	1 / 53	17.69	22.15	0.164	33.01	-10.86
	QPSK	2516.01	H	X	100	319	4.18	1 / 1	17.13	21.31	0.135	33.01	-11.70
	QPSK	2592.99	H	X	100	324	4.00	1 / 53	17.34	21.34	0.136	33.01	-11.67
	QPSK	2670.00	H	X	106	323	4.47	1 / 53	17.62	22.08	0.162	33.01	-10.93
20 MHz	16-QAM	2670.00	H	X	106	323	4.47	1 / 53	16.70	21.16	0.131	33.01	-11.85
	π/2 BPSK	2511.00	H	X	100	319	4.18	1 / 1	17.06	21.23	0.133	33.01	-11.78
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 39	17.38	21.38	0.137	33.01	-11.63
	π/2 BPSK	2674.98	H	X	106	323	4.48	1 / 39	17.75	22.23	0.167	33.01	-10.78
	QPSK	2511.00	H	X	100	319	4.18	1 / 1	17.23	21.40	0.138	33.01	-11.61
	QPSK	2592.99	H	X	100	324	4.00	1 / 39	17.34	21.34	0.136	33.01	-11.67
15 MHz	QPSK	2674.98	H	X	106	323	4.48	1 / 39	17.59	22.07	0.161	33.01	-10.94
	16-QAM	2674.98	H	X	106	323	4.48	1 / 39	16.60	21.08	0.128	33.01	-11.93
	π/2 BPSK	2506.02	H	X	100	319	4.17	1 / 1	17.05	21.22	0.132	33.01	-11.79
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 49	17.31	21.31	0.135	33.01	-11.70
	π/2 BPSK	2679.99	H	X	106	323	4.50	1 / 1	17.65	22.15	0.164	33.01	-10.86
	QPSK	2506.02	H	X	100	319	4.17	1 / 1	17.25	21.42	0.139	33.01	-11.59
10 MHz	QPSK	2592.99	H	X	100	324	4.00	1 / 49	17.29	21.29	0.135	33.01	-11.72
	QPSK	2679.99	H	X	106	323	4.50	1 / 1	17.55	22.05	0.160	33.01	-10.96
	16-QAM	2679.99	H	X	106	323	4.50	1 / 1	16.65	21.15	0.130	33.01	-11.86
	π/2 BPSK	2503.50	H	X	100	319	4.17	1 / 19	17.08	21.25	0.133	33.01	-11.76
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 36	17.32	21.32	0.135	33.01	-11.69
	π/2 BPSK	2682.48	H	X	106	323	4.50	1 / 1	17.60	22.10	0.162	33.01	-10.91
100 MHz	QPSK	2503.50	H	X	100	319	4.17	1 / 19	17.21	21.38	0.137	33.01	-11.63
	QPSK	2592.99	H	X	100	324	4.00	1 / 36	17.26	21.26	0.134	33.01	-11.75
	QPSK	2682.48	H	X	106	323	4.50	1 / 1	17.48	21.98	0.158	33.01	-11.03
	16-QAM	2682.48	H	X	106	323	4.50	1 / 11	16.61	21.11	0.129	33.01	-11.90
	π/2 BPSK	2501.01	H	X	100	319	4.17	1 / 1	17.07	21.24	0.133	33.01	-11.77
	π/2 BPSK	2592.99	H	X	100	324	4.00	1 / 22	17.30	21.30	0.135	33.01	-11.71
10 MHz	π/2 BPSK	2685.00	H	X	106	323	4.50	1 / 12	17.52	22.02	0.159	33.01	-10.99
	QPSK	2501.01	H	X	100	319	4.17	1 / 1	17.24	21.41	0.138	33.01	-11.60
	QPSK	2592.99	H	X	100	324	4.00	1 / 22	17.25	21.25	0.133	33.01	-11.76
	QPSK	2685.00	H	X	106	323	4.50	1 / 12	17.43	21.93	0.156	33.01	-11.08
	16-QAM	2685.00	H	X	106	323	4.50	1 / 12	16.64	21.14	0.130	33.01	-11.87
	100 MHz	QPSK (CP-OFDM)	2640.0	H	X	106	323	4.31	1 / 136	17.66	21.97	0.157	33.01

Table 7-32. EIRP Data (NR Band n41) – Ant 2

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## 7.7 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

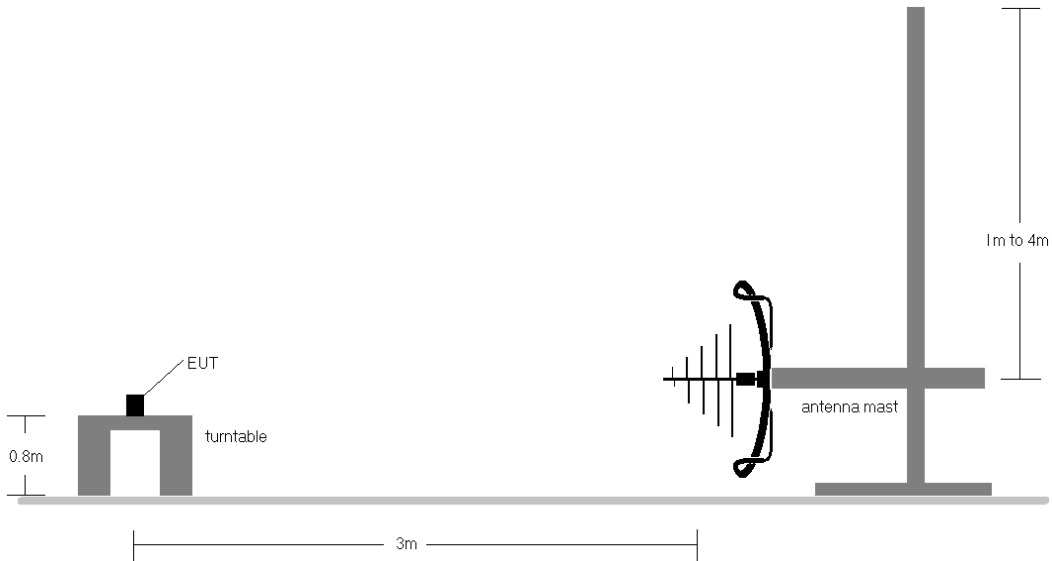
### Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

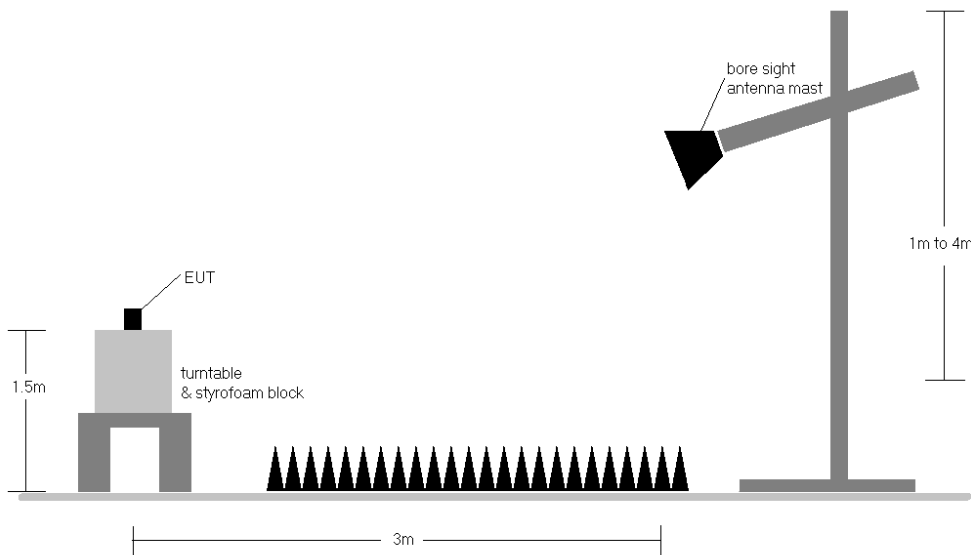
FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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**Test Setup**

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



**Figure 7-6. Test Instrument & Measurement Setup < 1GHz**



**Figure 7-7. Test Instrument & Measurement Setup >1 GHz**

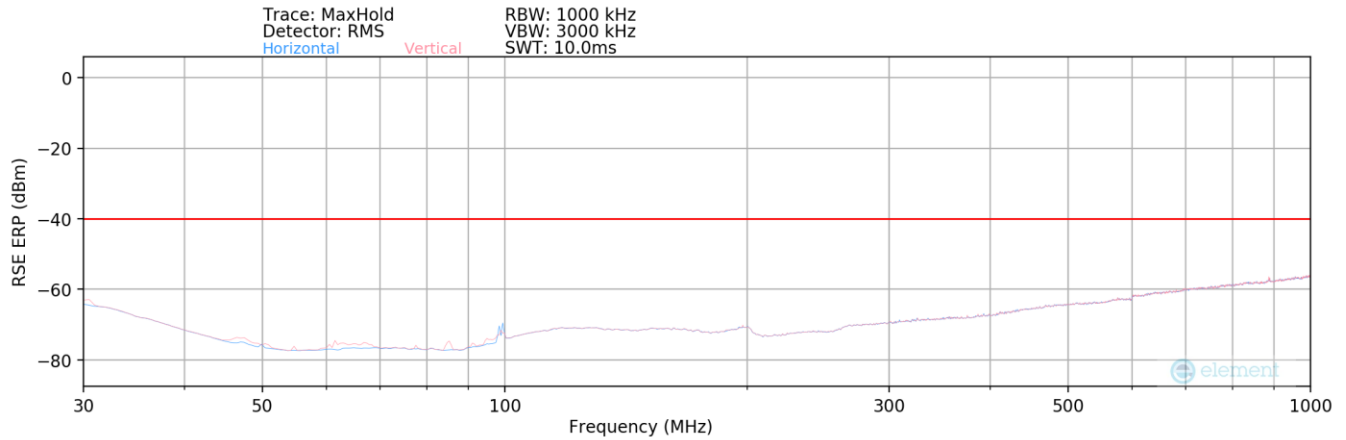
FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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**Test Notes**

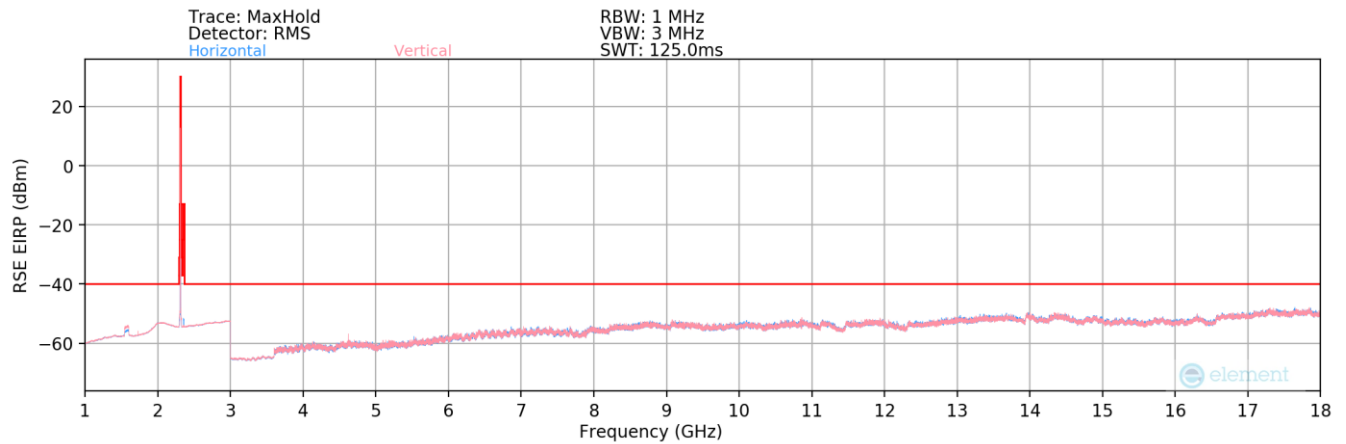
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 9) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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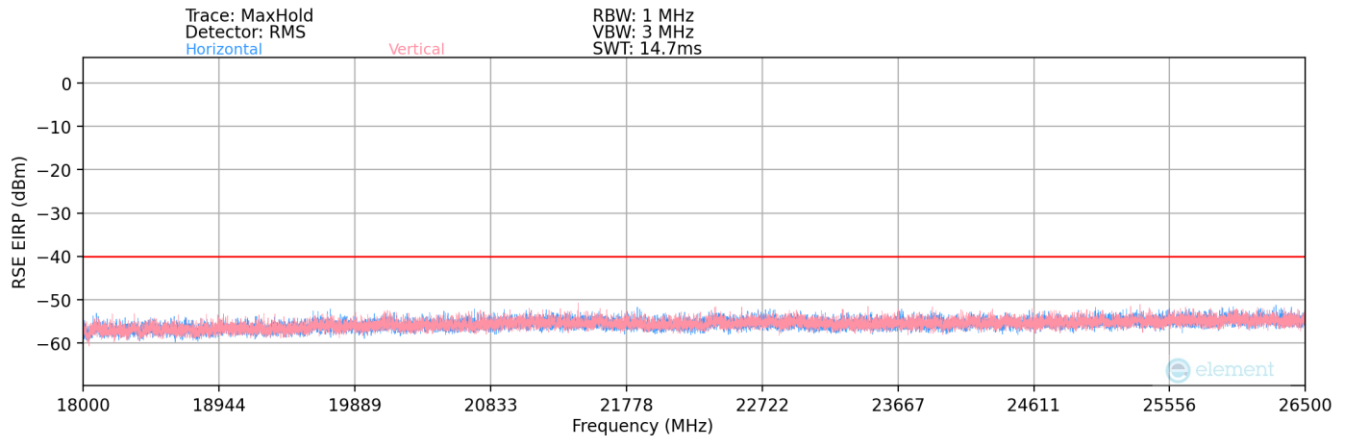
## LTE Band 30



Plot 7-206. Radiated Spurious Plot (LTE Band 30 – Below 1GHz)



Plot 7-207. Radiated Spurious Plot (LTE Band 30)



Plot 7-208. Radiated Spurious Plot (LTE Band 30 – Above 18GHz)

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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
54.00	H	125	255	-98.00	13.91	22.91	-74.50	-40.00	-34.50
96.00	H	126	262	-94.25	15.97	28.72	-68.69	-40.00	-28.69

Table 7-33. Radiated Spurious Data (LTE Band 30 – Below 1GHz)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

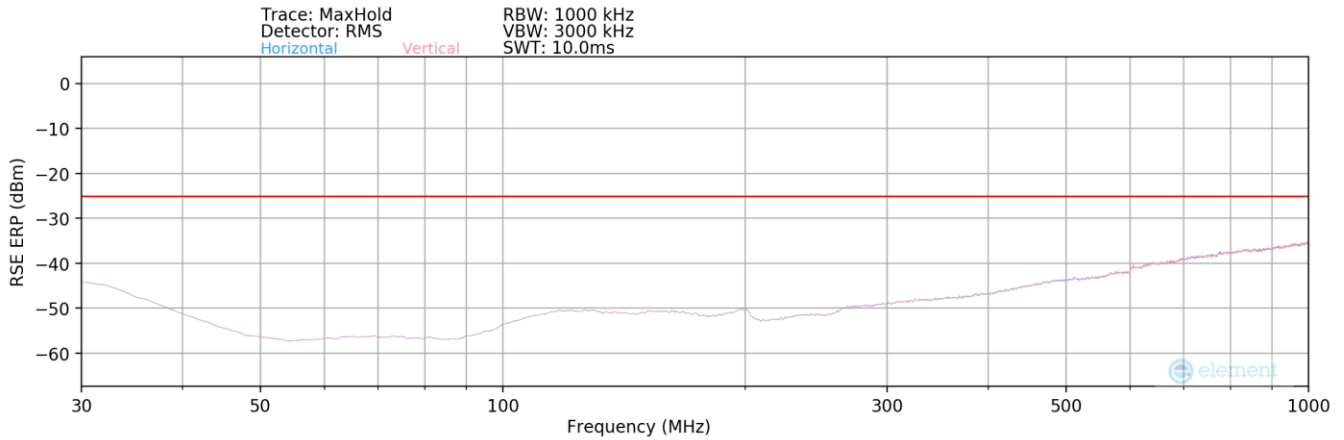
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	H	333	43	-69.11	3.08	40.97	-54.29	-40.00	-14.29
6930.00	H	-	-	-75.87	8.39	39.52	-55.74	-40.00	-15.74
9240.00	H	-	-	-76.28	10.92	41.64	-53.62	-40.00	-13.62
11550.00	H	-	-	-76.55	13.28	43.73	-51.52	-40.00	-11.52

Table 7-34. Radiated Spurious Data (LTE Band 30 – Mid Channel)

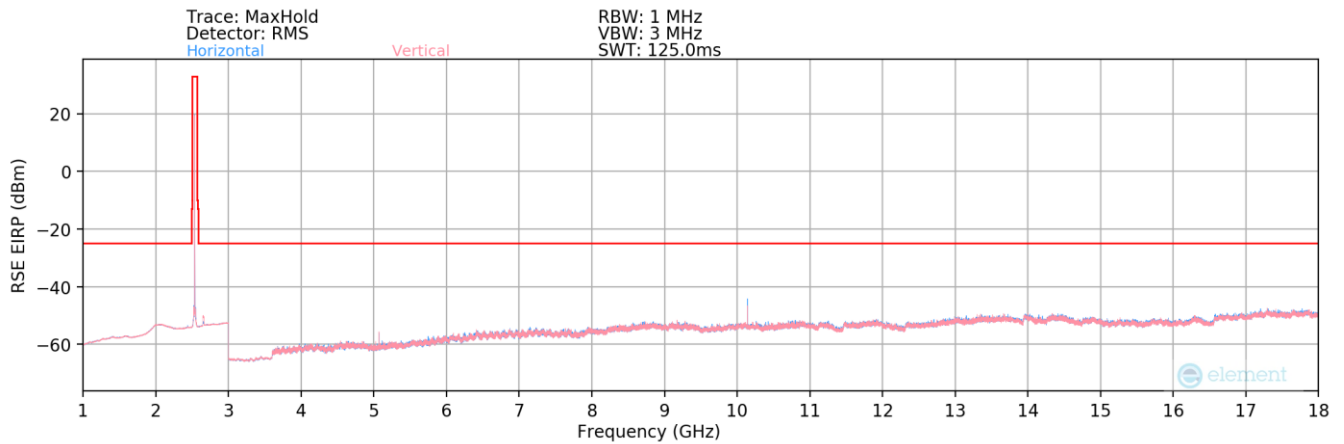
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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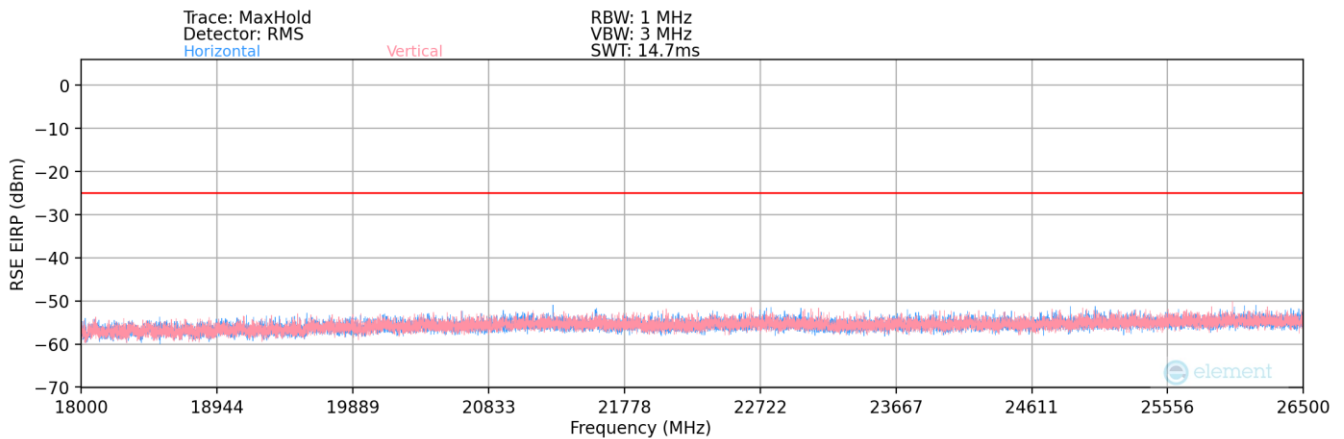
## LTE Band 7



Plot 7-209. Radiated Spurious Plot (LTE Band 7 – Below 1GHz)



Plot 7-210. Radiated Spurious Plot (LTE Band 7)



Plot 7-211. Radiated Spurious Plot (LTE Band 7 – Above 18GHz)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
343.00	V	-	-	-89.71	22.07	39.36	-58.05	-25.00	-33.05

Table 7-35. Radiated Spurious Data (LTE Band 7 – Below 1GHz)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	V	332	321	-70.49	3.31	39.82	-55.44	-25.00	-30.44
7530.00	V	-	-	-79.63	9.20	36.57	-58.69	-25.00	-33.69
10040.00	V	116	7	-70.89	11.78	47.89	-47.37	-25.00	-22.37
12550.00	V	-	-	-81.70	13.13	38.43	-56.82	-25.00	-31.82
15060.00	V	-	-	-81.82	14.06	39.24	-56.02	-25.00	-31.02
17570.00	V	-	-	-81.06	16.70	42.64	-52.62	-25.00	-27.62

Table 7-36. Radiated Spurious Data (LTE Band 7 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.00	V	109	309	-65.91	3.31	44.40	-50.86	-25.00	-25.86
7605.00	V	112	265	-77.36	9.62	39.26	-56.00	-25.00	-31.00
10140.00	V	121	6	-69.50	11.97	49.47	-45.79	-25.00	-20.79
12675.00	V	-	-	-81.61	13.55	38.94	-56.32	-25.00	-31.32
15210.00	V	-	-	-81.90	14.11	39.21	-56.04	-25.00	-31.04
17745.00	V	-	-	-82.15	17.54	42.39	-52.87	-25.00	-27.87

Table 7-37. Radiated Spurious Data (LTE Band 7 – Mid Channel)

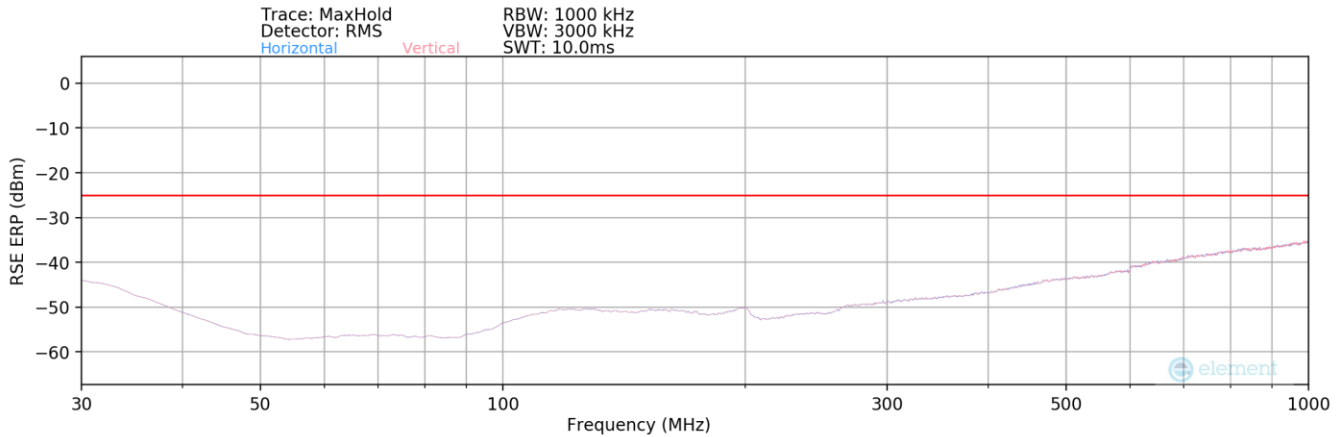
Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	V	111	320	-62.32	3.56	48.24	-47.02	-25.00	-22.02
7680.00	V	110	269	-76.64	8.71	39.07	-56.19	-25.00	-31.19
10240.00	V	118	5	-68.22	12.13	50.91	-44.35	-25.00	-19.35
12800.00	V	-	-	-82.14	13.88	38.74	-56.52	-25.00	-31.52
15360.00	V	-	-	-81.67	13.82	39.15	-56.11	-25.00	-31.11
17920.00	V	-	-	-81.64	16.98	42.34	-52.92	-25.00	-27.92

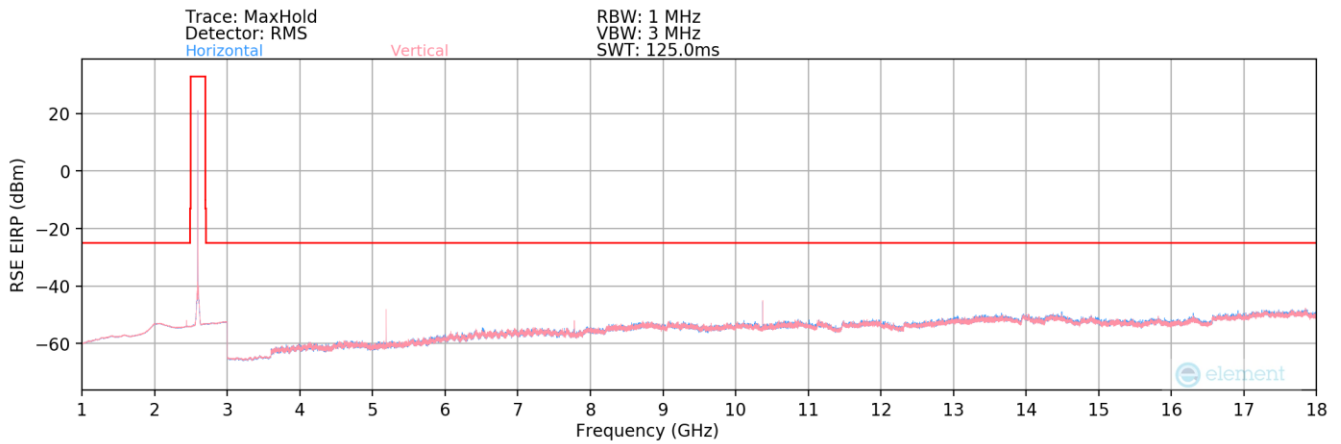
Table 7-38. Radiated Spurious Data (LTE Band 7 – High Channel)

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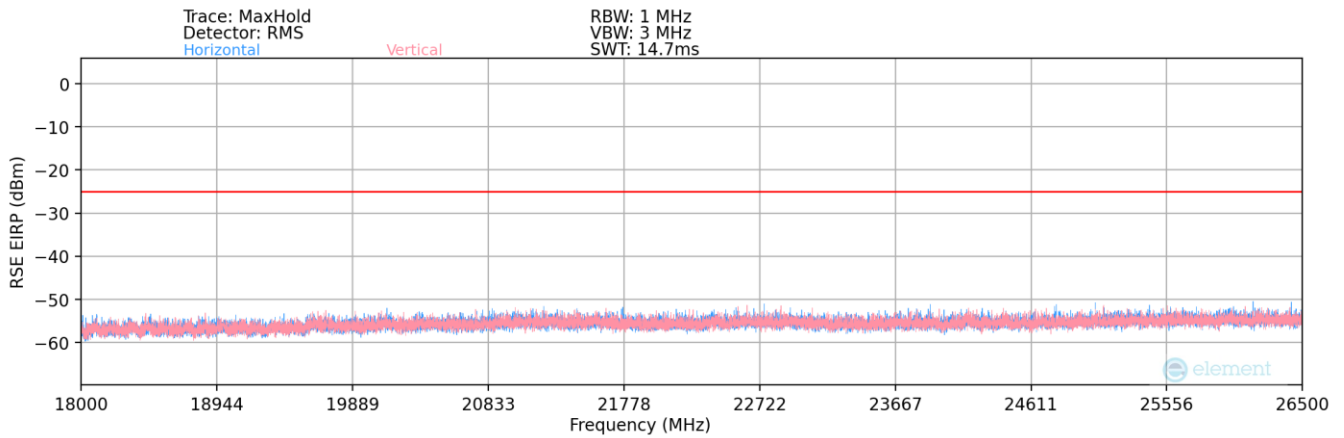
### LTE Band 41(PC2) – Ant1



Plot 7-212. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)



Plot 7-213. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)



Plot 7-214. Radiated Spurious Plot (LTE Band 41(PC2) – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	120	324	-61.59	3.22	48.63	-46.62	-25.00	-21.62
7518.00	V	114	282	-71.64	9.20	44.56	-50.69	-25.00	-25.69
10024.00	V	323	337	-68.14	11.56	50.42	-44.84	-25.00	-19.84
12530.00	V	-	-	-79.24	13.01	40.77	-54.49	-25.00	-29.49
15036.00	V	-	-	-80.19	13.85	40.66	-54.60	-25.00	-29.60
17542.00	V	-	-	-79.19	16.72	44.53	-50.73	-25.00	-25.73

Table 7-39. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	109	310	-51.68	3.51	58.83	-36.43	-25.00	-11.43
7779.00	V	110	30	-69.86	8.55	45.69	-49.57	-25.00	-24.57
10372.00	V	109	9	-63.52	12.14	55.62	-39.64	-25.00	-14.64
12965.00	V	-	-	-79.34	14.30	41.96	-53.30	-25.00	-28.30
15558.00	V	-	-	-78.94	13.58	41.64	-53.62	-25.00	-28.62
18151.00	V	-	-	-57.30	1.20	50.91	-53.89	-25.00	-28.89

Table 7-40. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	120	320	-55.76	3.59	54.83	-40.42	-25.00	-15.42
8040.00	V	115	266	-69.43	9.23	46.80	-48.45	-25.00	-23.45
10720.00	V	115	7	-58.23	12.79	61.56	-33.70	-25.00	-8.70
13400.00	V	-	-	-79.37	14.97	42.60	-52.66	-25.00	-27.66
16080.00	V	-	-	-79.63	14.58	41.95	-53.31	-25.00	-28.31
18760.00	V	-	-	-57.81	1.49	50.68	-54.12	-25.00	-29.12

Table 7-41. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 161 of 193



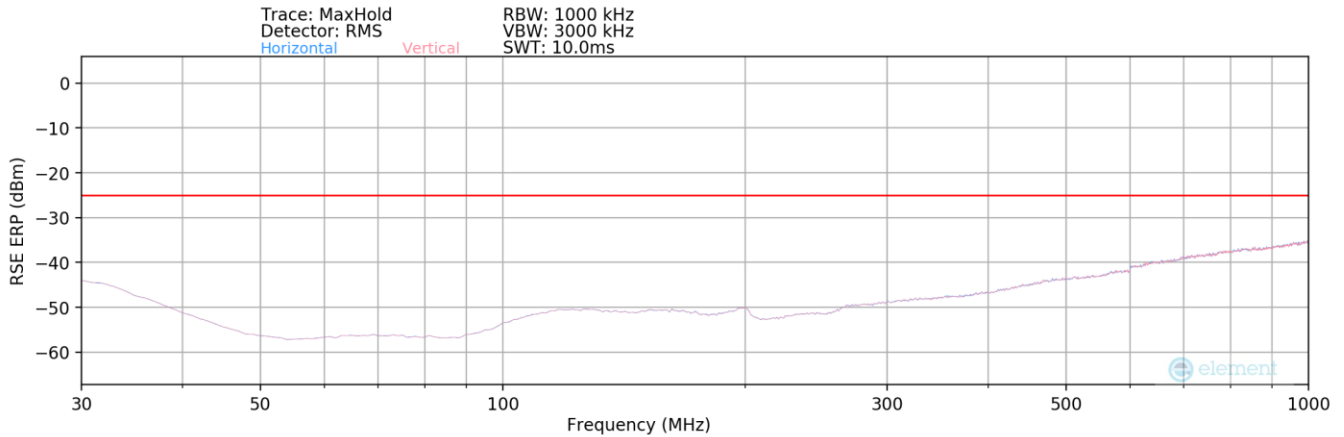
Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
73.00	V	-	-	-84.57	15.06	37.49	-59.92	-25.00	-34.92

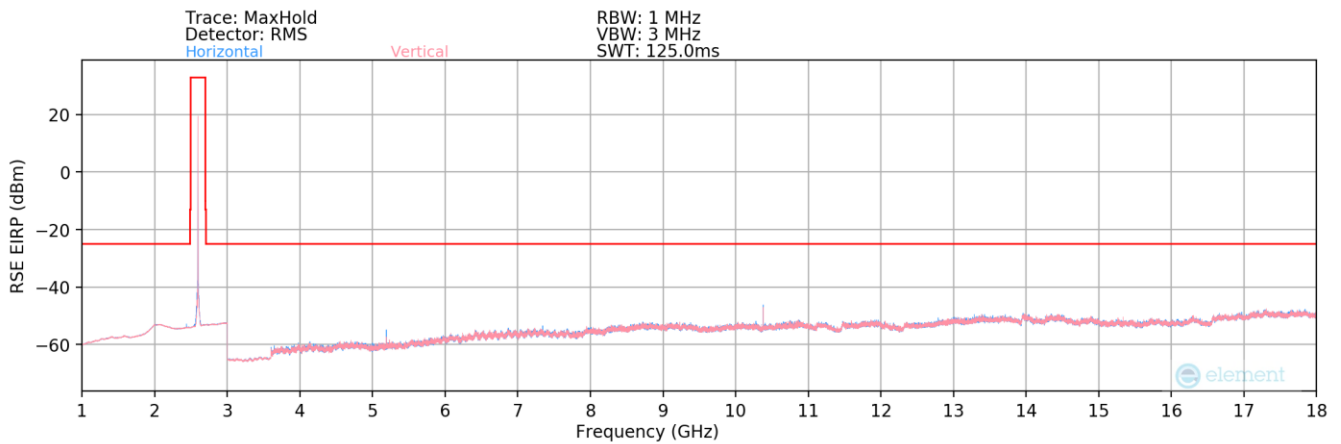
Table 7-42. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 162 of 193

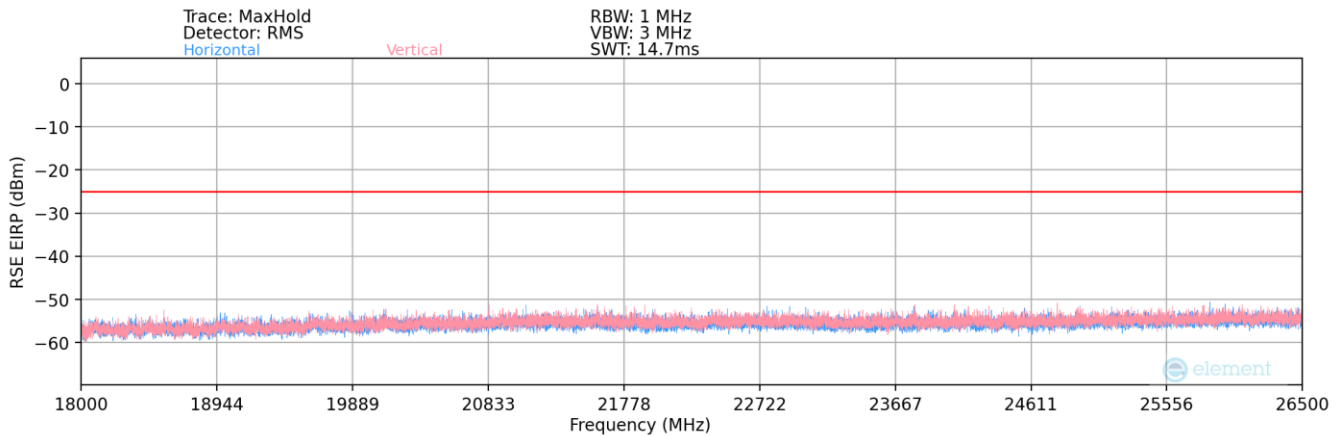
### LTE Band 38 – Ant1



Plot 7-215. Radiated Spurious Plot (LTE Band 38 – Ant1)



Plot 7-216. Radiated Spurious Plot (LTE Band 38 – Ant1)



Plot 7-217. Radiated Spurious Plot (LTE Band 38 – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 163 of 193

Bandwidth (MHz):	20
Frequency (MHz):	2580.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5160.00	H	124	325	-61.74	3.42	48.68	-46.57	-25.00	-21.57
7740.00	H	261	43	-73.08	8.28	42.20	-53.06	-25.00	-28.06
10320.00	H	267	2	-68.05	11.81	50.76	-44.50	-25.00	-19.50
12900.00	H	-	-	-78.96	13.86	41.90	-53.35	-25.00	-28.35
15480.00	H	-	-	-79.48	13.84	41.36	-53.90	-25.00	-28.90
18060.00	H	-	-	-57.62	1.41	50.79	-54.01	-25.00	-29.01

Table 7-43. Radiated Spurious Data (LTE Band 38 – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2595.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5190.00	H	112	313	-62.75	3.53	47.78	-47.48	-25.00	-22.48
7785.00	H	-	-	-77.03	8.52	38.49	-56.77	-25.00	-31.77
10380.00	H	266	1	-66.43	12.26	52.83	-42.43	-25.00	-17.43
12975.00	H	-	-	-79.05	14.34	42.29	-52.96	-25.00	-27.96
15570.00	H	-	-	-78.89	13.45	41.56	-53.70	-25.00	-28.70
18165.00	H	-	-	-58.02	1.24	50.22	-54.58	-25.00	-29.58

Table 7-44. Radiated Spurious Data (LTE Band 38 – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2610.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5220.00	H	290	339	-62.49	3.72	48.23	-47.03	-25.00	-22.03
7830.00	H	-	-	-77.52	8.88	38.36	-56.90	-25.00	-31.90
10440.00	H	269	358	-65.51	12.88	54.37	-40.89	-25.00	-15.89
13050.00	H	-	-	-79.12	14.40	42.28	-52.98	-25.00	-27.98
15660.00	H	-	-	-79.03	13.98	41.95	-53.31	-25.00	-28.31
18270.00	H	-	-	-57.37	1.17	50.80	-54.00	-25.00	-29.00

Table 7-45. Radiated Spurious Data (LTE Band 38 – High Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 164 of 193



Bandwidth (MHz):	20
Frequency (MHz):	2595.0
RB / Offset:	1 / 50

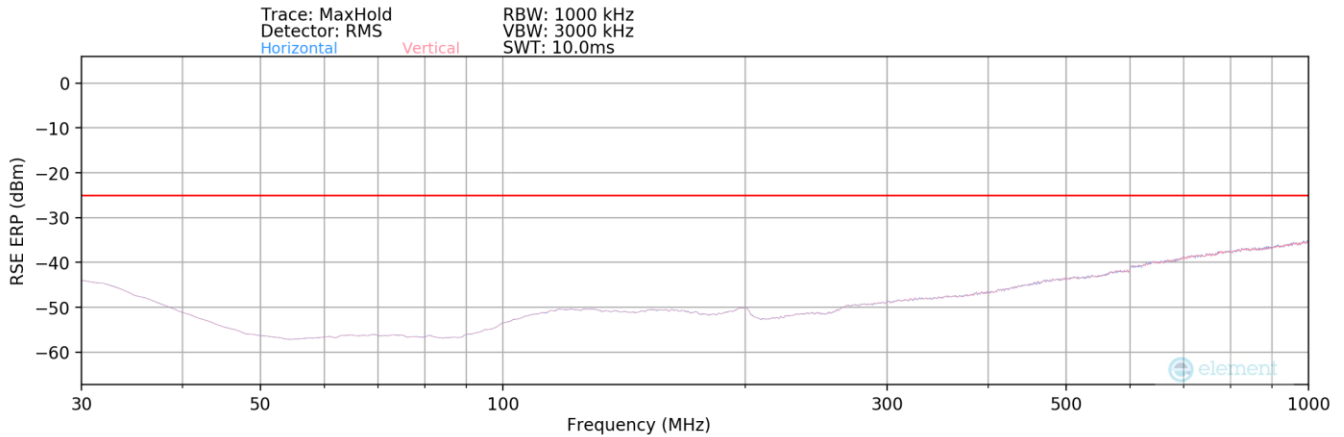
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
428.00	H	-	-	-83.31	24.36	48.05	-49.36	-25.00	-24.36

Table 7-46. Radiated Spurious Data (LTE Band 38 – Mid Channel – Ant1)

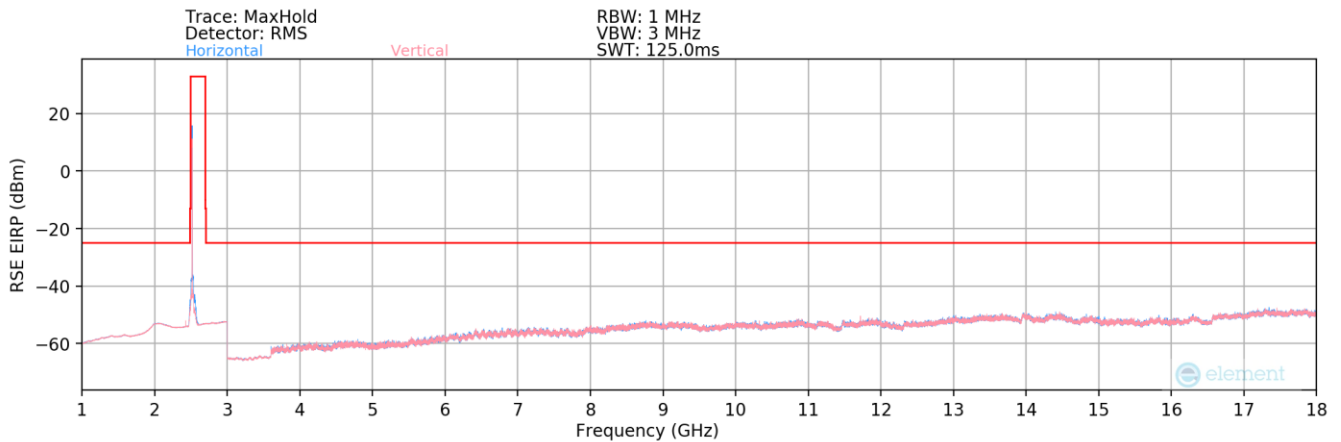
FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 165 of 193



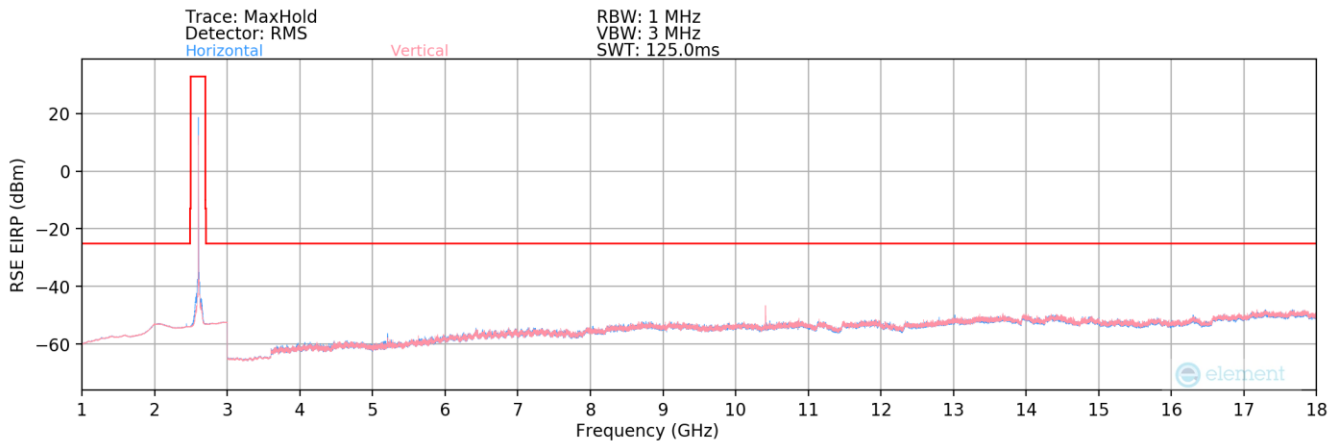
# ULCA - LTE B41(PC2) – Ant1



**Plot 7-218. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – Below 1GHz**

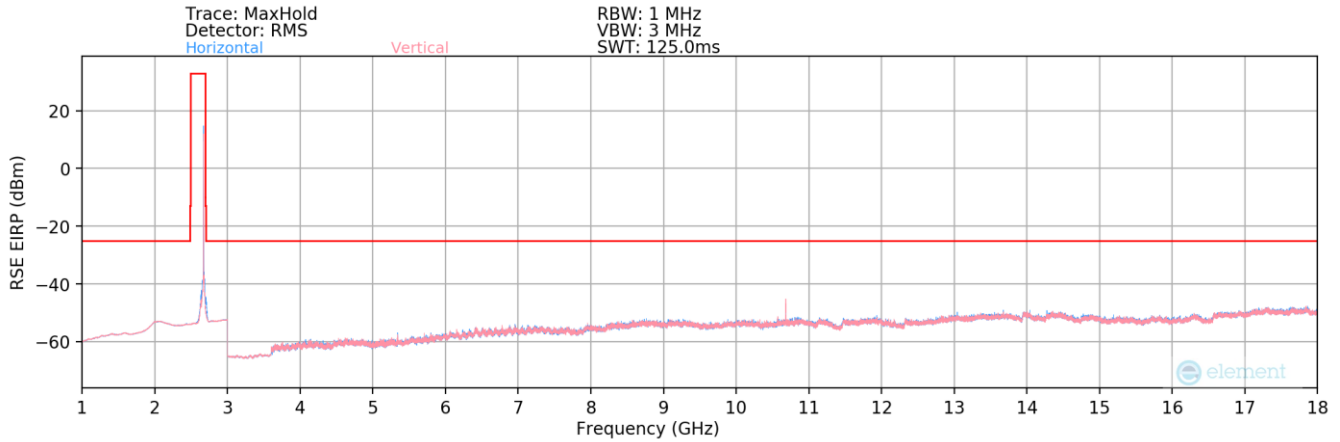


**Plot 7-219. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1)– Low Channel**

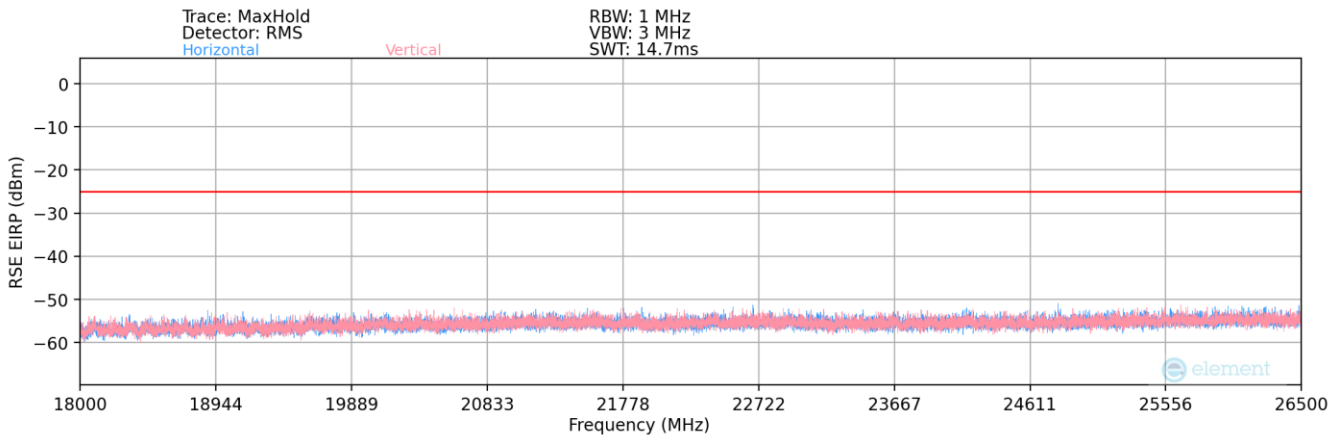


**Plot 7-220. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – Mid Channel**

FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Plot 7-221. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – High Channel



Plot 7-222. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant1) – Mid Channel

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	112	321	-70.28	3.22	39.94	-55.31	-25.00	-30.31
7518.00	V	-	-	-77.80	9.20	38.40	-56.85	-25.00	-31.85
10024.00	V	114	13	-74.96	11.56	43.60	-51.66	-25.00	-26.66
12530.00	V	-	-	-79.69	13.01	40.32	-54.94	-25.00	-29.94
15036.00	V	-	-	-79.43	13.85	41.42	-53.84	-25.00	-28.84
17542.00	V	-	-	-79.25	16.72	44.47	-50.79	-25.00	-25.79

Table 7-47. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 167 of 193

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	119	315	-62.35	3.51	48.16	-47.10	-25.00	-22.10
7779.00	V	-	-	-77.67	8.55	37.88	-57.38	-25.00	-32.38
10372.00	V	114	4	-67.62	12.14	51.52	-43.74	-25.00	-18.74
12965.00	V	-	-	-79.25	14.30	42.05	-53.21	-25.00	-28.21
15558.00	V	-	-	-78.97	13.58	41.61	-53.65	-25.00	-28.65
18151.00	V	-	-	-56.86	1.20	51.35	-53.45	-25.00	-28.45

Table 7-48. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	342	315	-61.72	3.59	48.87	-46.38	-25.00	-21.38
8040.00	V	-	-	-77.11	9.23	39.12	-56.13	-25.00	-31.13
10720.00	V	140	2	-67.80	12.79	51.99	-43.27	-25.00	-18.27
13400.00	V	-	-	-79.55	14.97	42.42	-52.84	-25.00	-27.84
16080.00	V	-	-	-79.36	14.58	42.22	-53.04	-25.00	-28.04
18760.00	V	-	-	-57.94	1.49	50.56	-54.24	-25.00	-29.24

Table 7-49. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – Ant1)

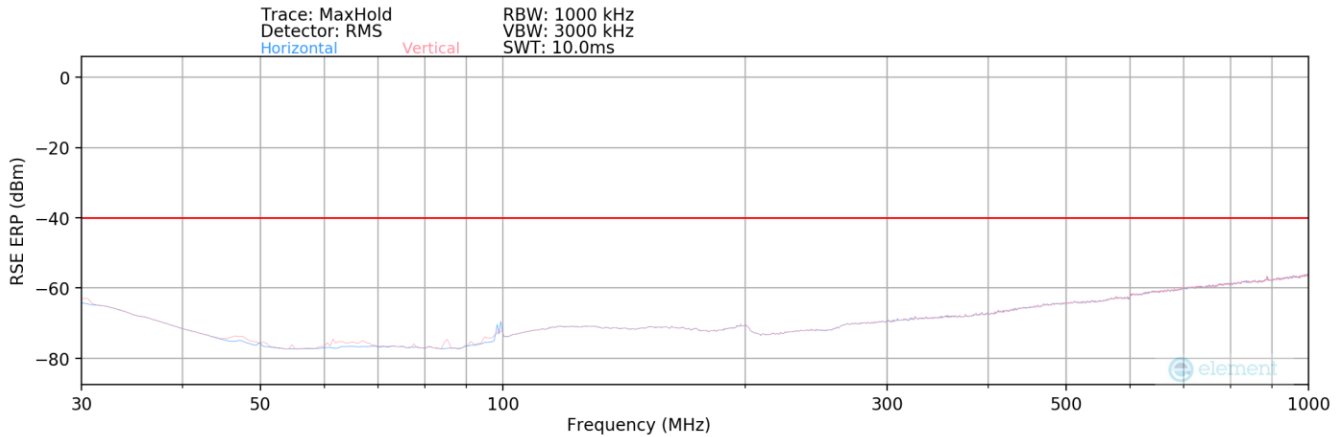
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
528.00	V	-	-	-84.11	26.23	49.12	-48.29	-25.00	-23.29

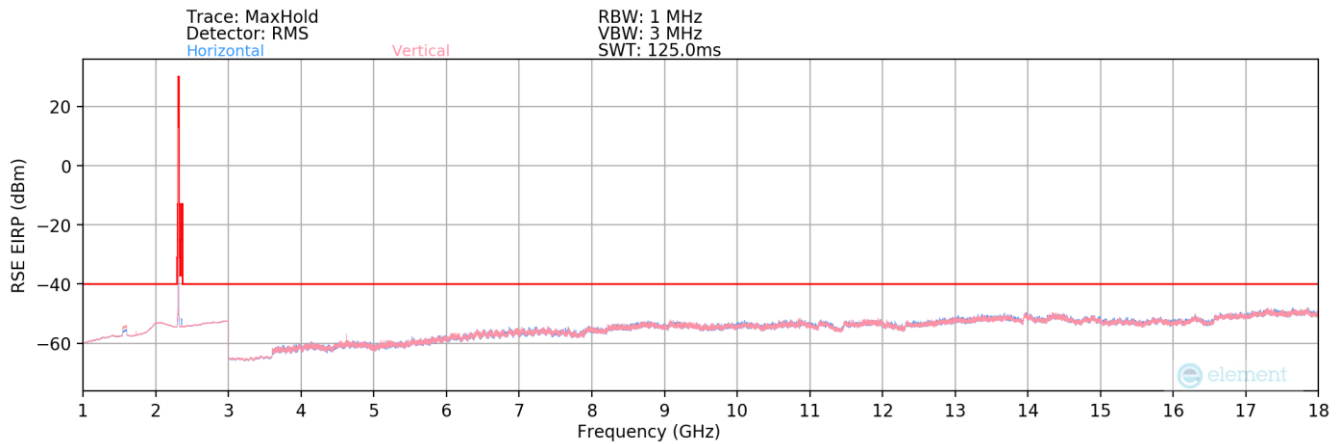
Table 7-50. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 168 of 193

## NR Band n30 – Ant1



Plot 7-223. Radiated Spurious Plot (NR Band n30 – Ant1)



Plot 7-224. Radiated Spurious Plot (NR Band n30 – Ant1)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	H	136	7	-76.71	3.08	33.37	-61.89	-40.00	-21.89
6930.00	H	137	61	-73.57	8.39	41.82	-53.44	-40.00	-13.44
9240.00	H	-	-	-80.43	10.92	37.49	-57.77	-40.00	-17.77
11550.00	H	-	-	-81.68	13.28	38.60	-56.65	-40.00	-16.65
13860.00	H	-	-	-82.34	16.62	41.28	-53.98	-40.00	-13.98

Table 7-51. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 169 of 193



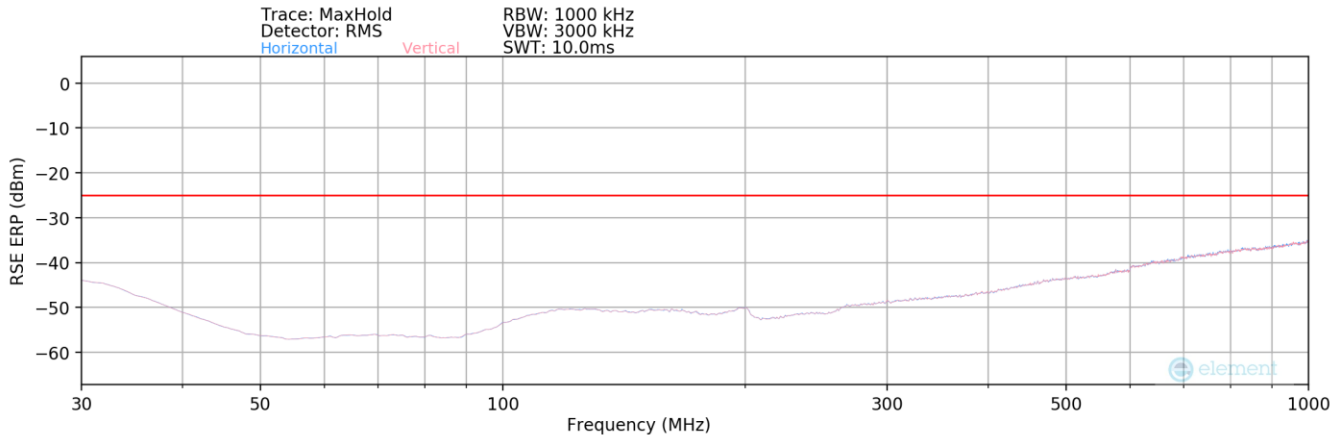
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
63.62	H	-	-	-90.58	14.69	31.11	-66.29	-40.00	-26.29
73.12	H	-	-	-90.62	15.04	31.42	-65.99	-40.00	-25.99

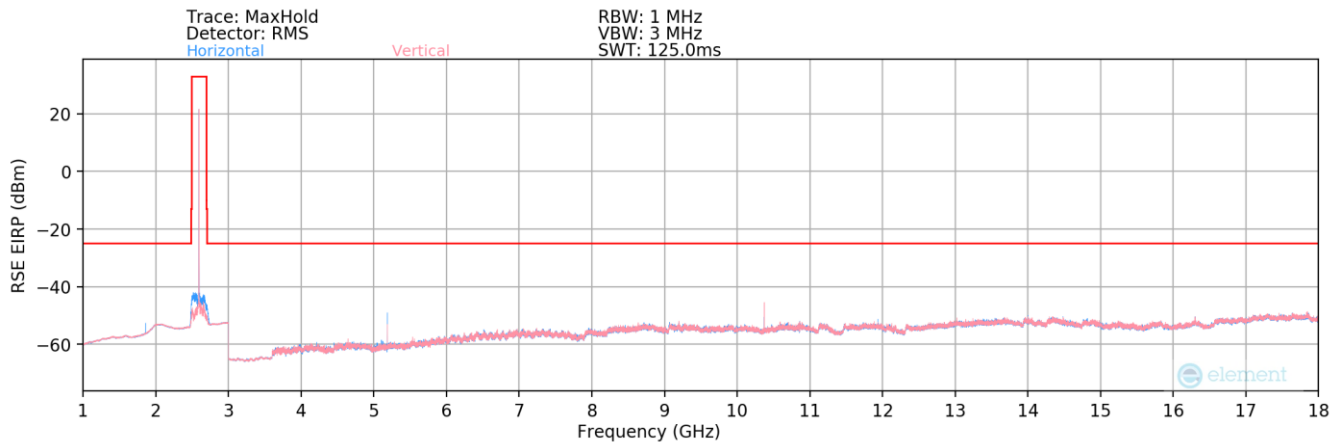
Table 7-52. Radiated Spurious Data (NR Band n30 – Mid Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 170 of 193

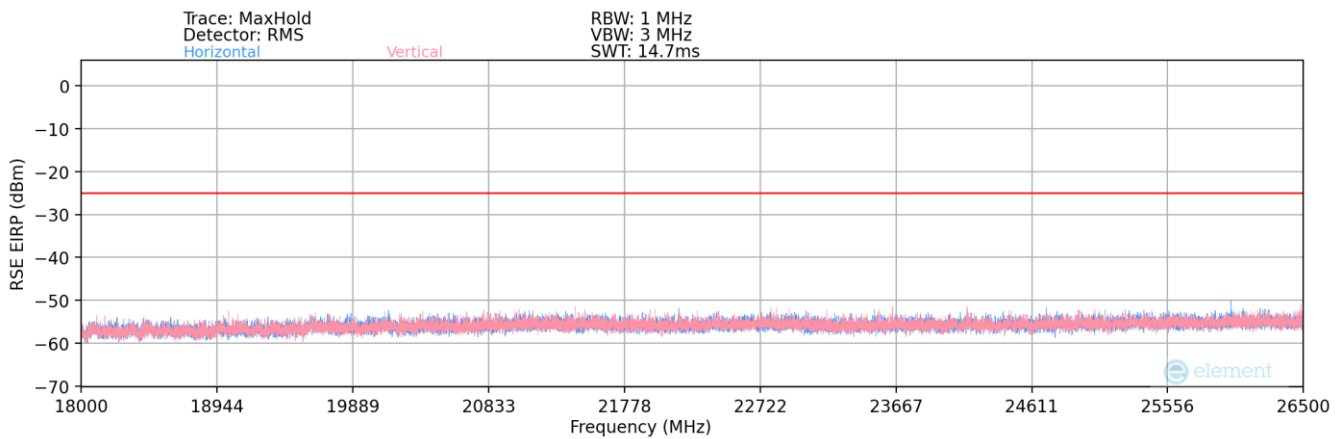
## NR Band n41 – Ant1



Plot 7-225. Radiated Spurious Plot (NR Band n41 – Ant1)



Plot 7-226. Radiated Spurious Plot (NR Band n41 – Ant1)



Plot 7-227. Radiated Spurious Plot (NR Band n41 – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2311010111-05.A3L	Test Dates: 11/08/2023 - 12/29/2023	EUT Type: Portable Handset	Page 171 of 193

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	V	121	322	-56.98	3.31	53.33	-41.93	-25.00	-16.93
7638.03	V	-	-	-77.81	9.21	38.40	-56.86	-25.00	-31.86
10184.04	V	133	10	-68.29	12.07	50.78	-44.48	-25.00	-19.48
12730.05	V	-	-	-80.04	13.52	40.48	-54.77	-25.00	-29.77
15276.06	V	-	-	-80.09	14.17	41.08	-54.18	-25.00	-29.18
17822.07	V	-	-	-81.05	17.98	43.93	-51.33	-25.00	-26.33

Table 7-53. Radiated Spurious Data (NR Band n41 – Low Channel – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	V	127	325	-53.72	3.51	56.79	-38.47	-25.00	-13.47
7778.97	V	123	27	-74.98	8.55	40.57	-54.69	-25.00	-29.69
10371.96	V	309	332	-67.28	12.14	51.86	-43.40	-25.00	-18.40
12964.95	V	-	-	-79.40	14.30	41.90	-53.36	-25.00	-28.36
15557.94	V	-	-	-79.54	13.58	41.04	-54.22	-25.00	-29.22
18150.93	V	-	-	-58.06	1.20	50.15	-54.65	-25.00	-29.65

Table 7-54. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	V	136	327	-53.87	3.43	56.56	-38.70	-25.00	-13.70
7920.00	V	134	275	-75.37	9.25	40.88	-54.38	-25.00	-29.38
10560.00	V	139	10	-63.60	12.61	56.01	-39.25	-25.00	-14.25
13200.00	V	-	-	-79.67	14.68	42.01	-53.25	-25.00	-28.25
15840.00	V	-	-	-80.60	14.77	41.17	-54.09	-25.00	-29.09
18480.00	V	-	-	-57.26	1.65	51.39	-53.41	-25.00	-28.41

Table 7-55. Radiated Spurious Data (NR Band n41 – High Channel – Ant1)

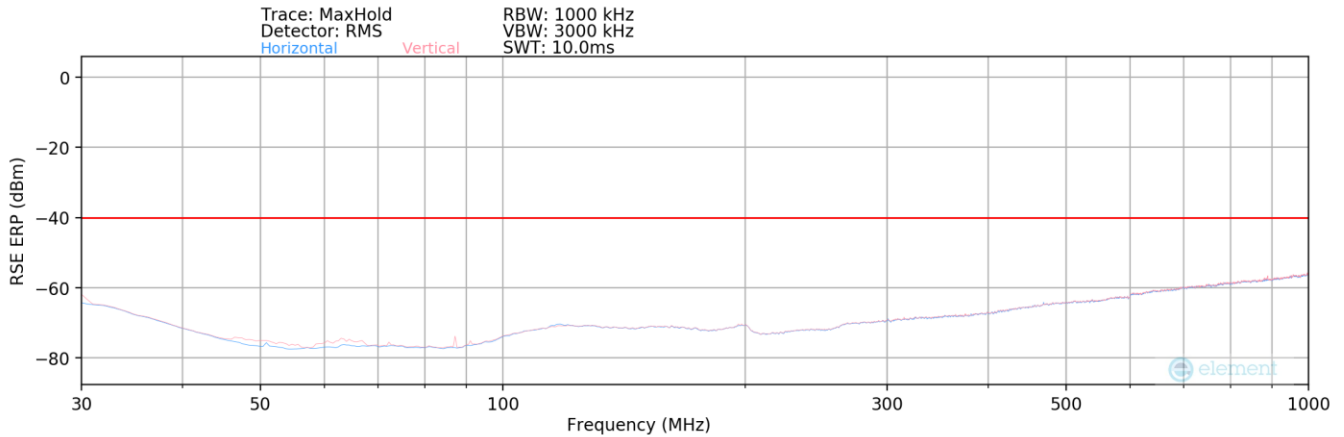
Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
731.80	V	-	-	-89.63	29.28	46.65	-50.75	-25.00	-25.75

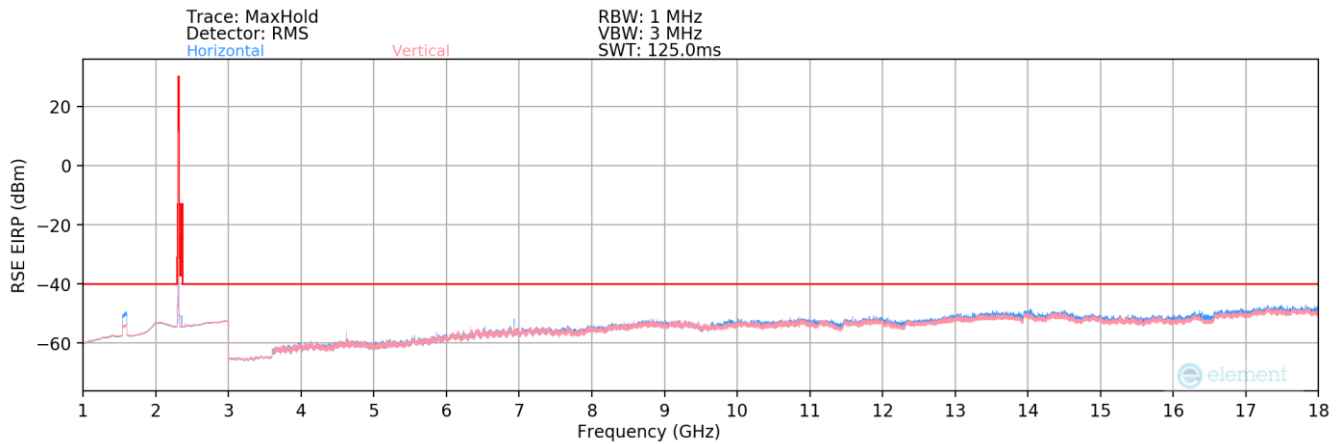
Table 7-56. Radiated Spurious Data (NR Band n41 – Low Channel – Ant1)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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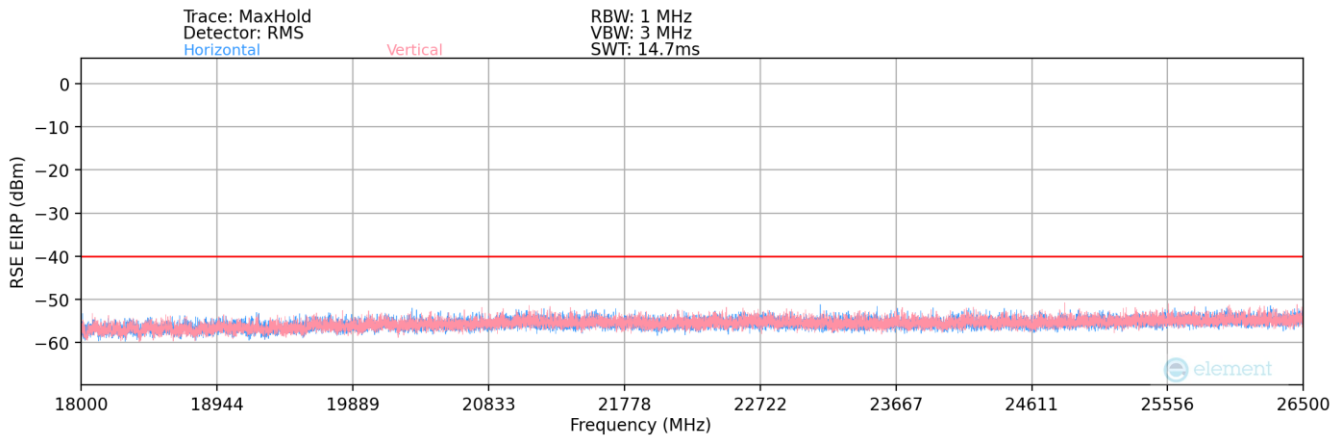
## LTE Band 30 – Ant2



**Plot 7-228. Radiated Spurious Plot (LTE Band 30 – Ant2)**



**Plot 7-229. Radiated Spurious Plot (LTE Band 30 – Ant2)**



**Plot 7-230. Radiated Spurious Plot (LTE Band 30 – Ant2)**

FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	V	130	13	-73.21	3.08	36.87	-58.39	-40.00	-18.39
6930.00	V	281	349	-72.25	8.39	43.14	-52.12	-40.00	-12.12
9240.00	V	-	-	-80.68	10.92	37.24	-58.02	-40.00	-18.02
11550.00	V	-	-	-81.67	13.28	38.61	-56.64	-40.00	-16.64
13860.00	V	-	-	-82.77	16.62	40.85	-54.41	-40.00	-14.41

Table 7-57. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant2)

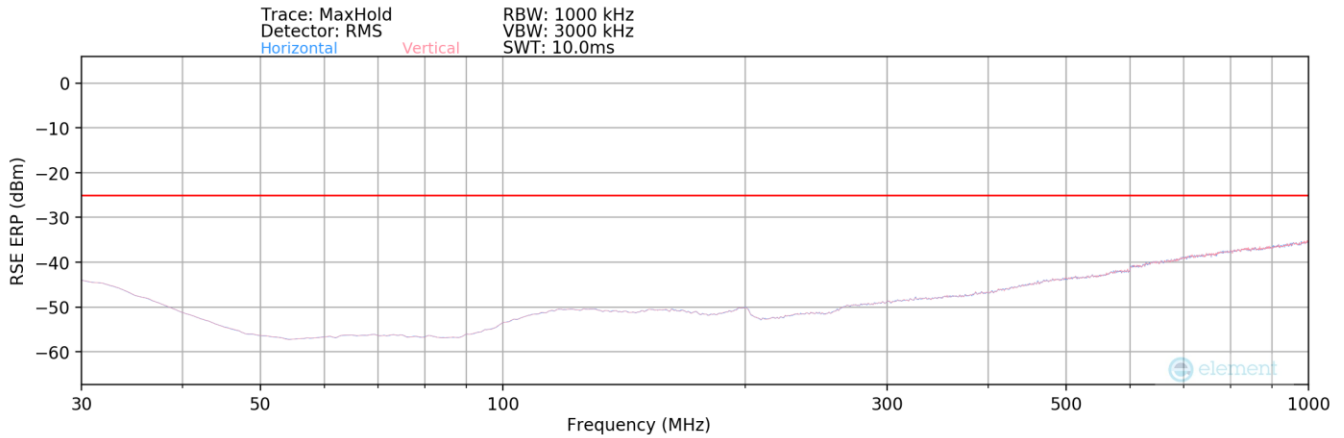
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
52.00	V	400	241	-107.65	14.49	13.84	-83.57	-40.00	-43.57
67.00	V	378	192	-104.45	14.68	17.23	-80.18	-40.00	-40.18
88.00	V	-	-	-107.76	14.24	13.48	-83.93	-40.00	-43.93
91.00	V	-	-	-108.16	14.96	13.80	-83.60	-40.00	-43.60

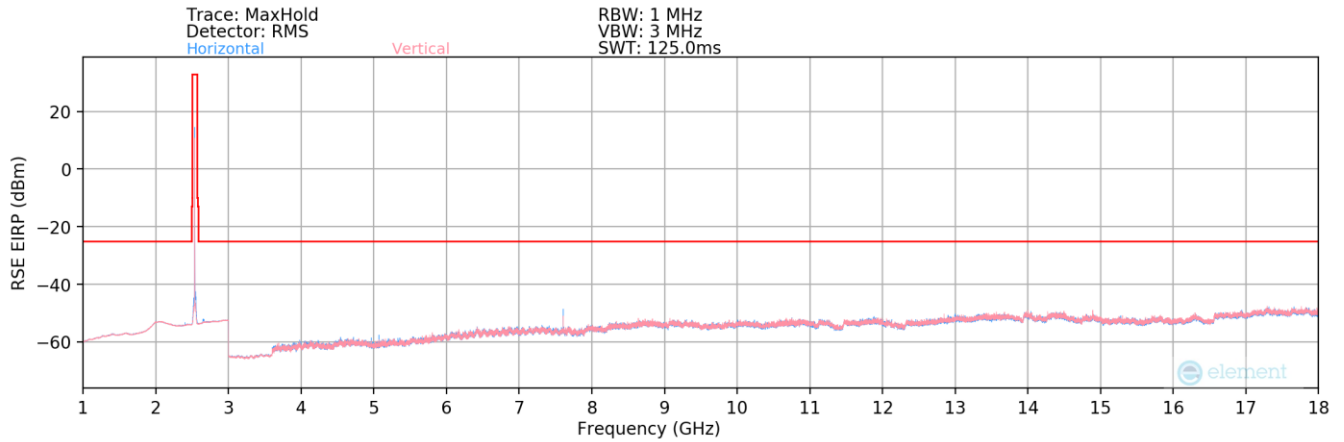
Table 7-58. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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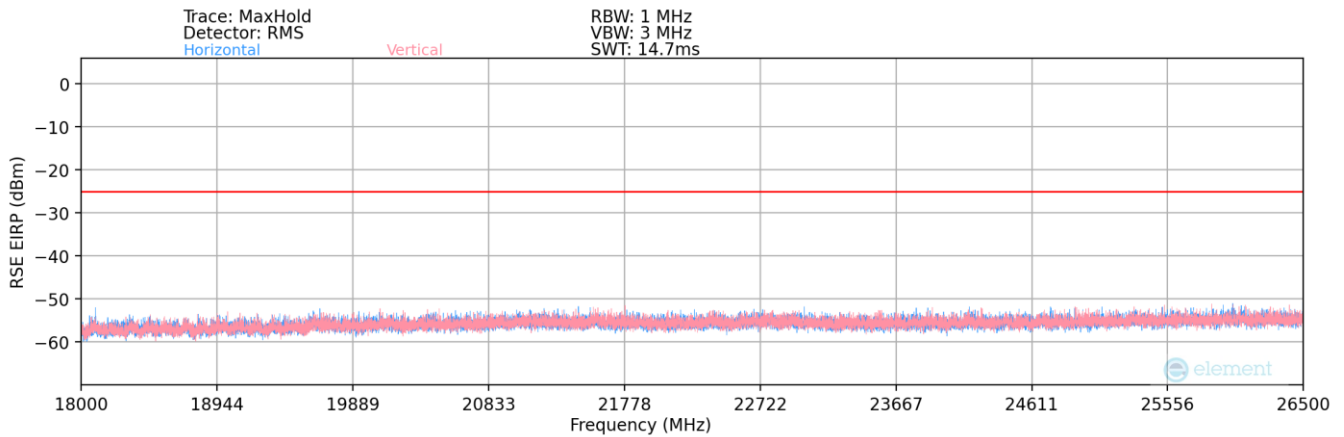
# LTE Band 7 – Ant2



**Plot 7-231. Radiated Spurious Plot (LTE Band 7 – Ant2)**



**Plot 7-232. Radiated Spurious Plot (LTE Band 7 – Ant2)**



**Plot 7-233. Radiated Spurious Plot (LTE Band 7 – Ant2)**

FCC ID: A3LSMA356U	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	H	177	25	-72.56	3.31	37.75	-57.51	-25.00	-32.51
7530.00	H	120	319	-70.11	9.20	46.09	-49.17	-25.00	-24.17
10040.00	H	-	-	-79.68	11.78	39.10	-56.16	-25.00	-31.16
12550.00	H	-	-	-81.64	13.13	38.49	-56.76	-25.00	-31.76
15060.00	H	-	-	-81.80	14.06	39.26	-56.00	-25.00	-31.00

Table 7-59. Radiated Spurious Data (LTE Band 7 – Low Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5070.00	H	321	9	-71.60	3.31	38.71	-56.55	-25.00	-31.55
7605.00	H	254	312	-69.69	9.62	46.93	-48.33	-25.00	-23.33
10140.00	H	-	-	-80.62	11.97	38.35	-56.91	-25.00	-31.91
12675.00	H	-	-	-81.56	13.55	38.99	-56.27	-25.00	-31.27
15210.00	H	-	-	-81.90	14.11	39.21	-56.04	-25.00	-31.04

Table 7-60. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5120.00	H	161	16	-74.50	3.56	36.06	-59.20	-25.00	-34.20
7680.00	H	169	312	-71.43	8.71	44.28	-50.98	-25.00	-25.98
10240.00	H	242	57	-79.48	12.13	39.65	-55.61	-25.00	-30.61
12800.00	H	-	-	-82.13	13.88	38.75	-56.51	-25.00	-31.51
15360.00	H	-	-	-81.68	13.82	39.14	-56.12	-25.00	-31.12
17920.00	H	-	-	-81.60	16.98	42.38	-52.88	-25.00	-27.88

Table 7-61. Radiated Spurious Data (LTE Band 7 – High Channel – Ant2)

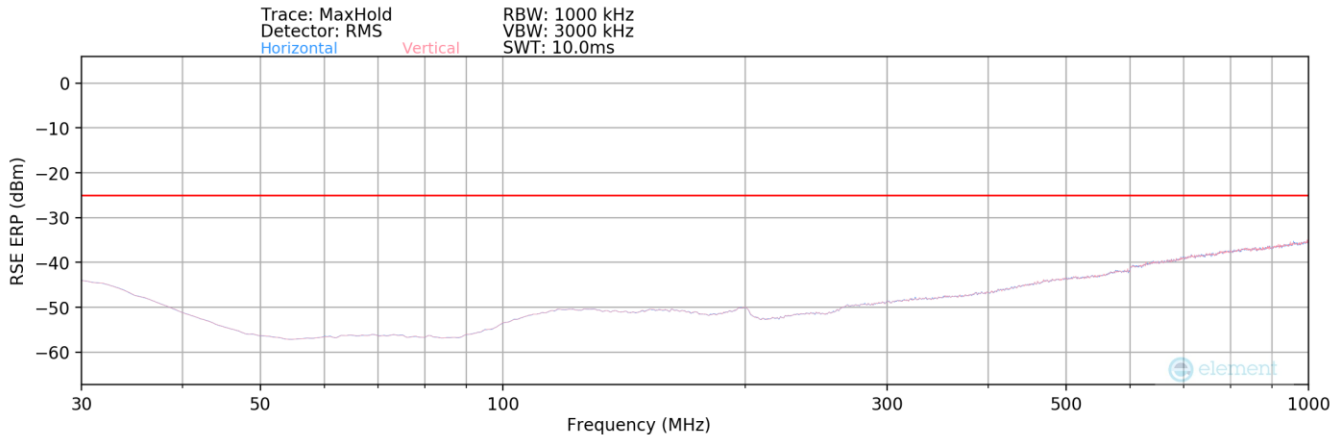
Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
322.00	H	-	-	-89.59	21.51	38.92	-58.49	-25.00	-33.49

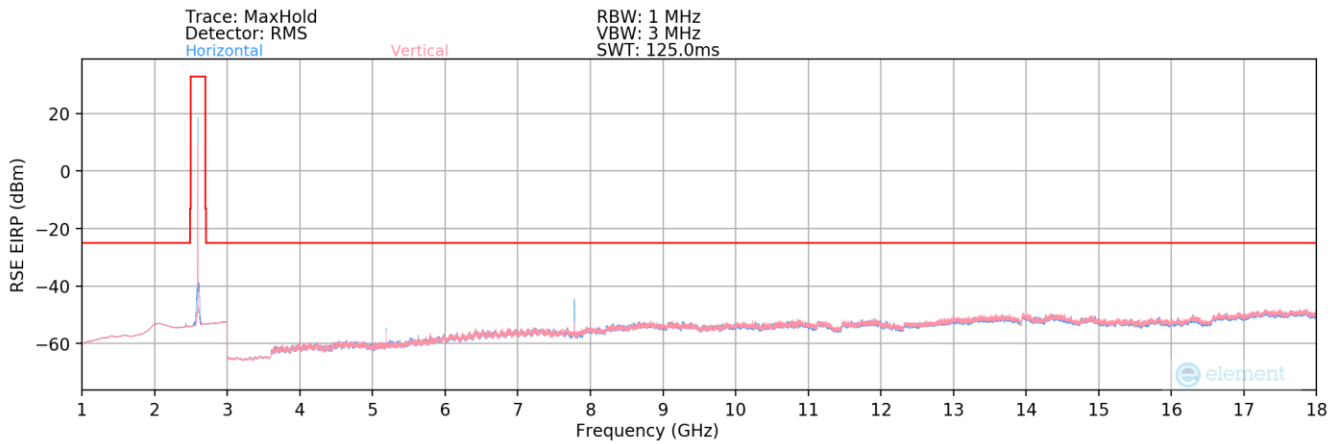
Table 7-62. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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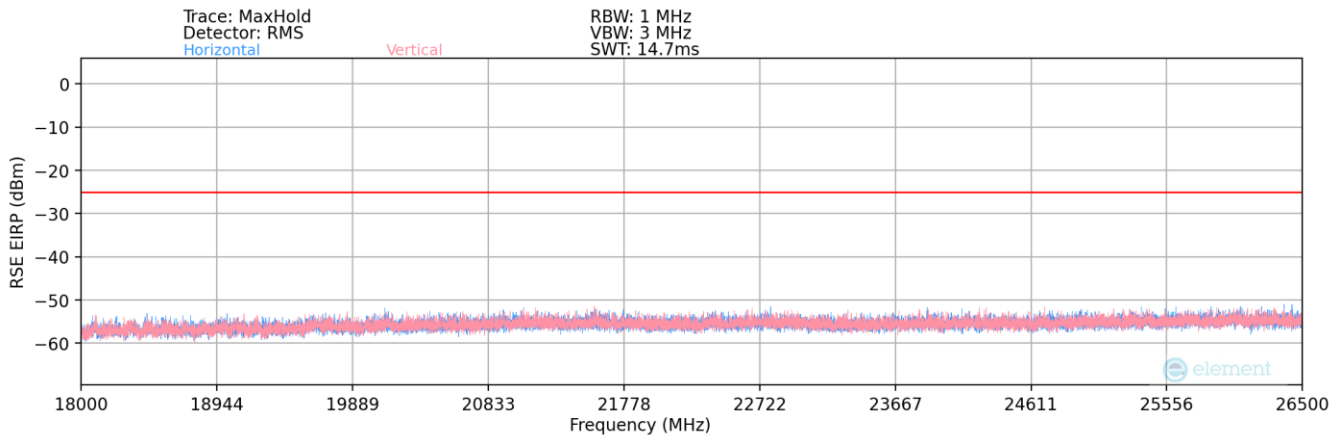
### LTE Band 41(PC2) – Ant2



Plot 7-234. Radiated Spurious Plot (LTE Band 41(PC2) – Ant2)



Plot 7-235. Radiated Spurious Plot (LTE Band 41(PC2) – Ant2)



Plot 7-236. Radiated Spurious Plot (LTE Band 41(PC2) – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5020.00	H	355	6	-68.19	3.31	42.12	-53.14	-25.00	-28.14
7530.00	H	167	323	-63.07	9.20	53.13	-42.13	-25.00	-17.13
10040.00	H	117	33	-69.59	11.78	49.19	-46.07	-25.00	-21.07
12550.00	H	-	-	-79.37	13.13	40.76	-54.49	-25.00	-29.49
15060.00	H	123	360	-77.94	14.06	43.12	-52.14	-25.00	-27.14
17570.00	H	169	9	-75.42	16.70	48.28	-46.98	-25.00	-21.98
20080.00	H	-	-	-57.72	2.79	52.07	-52.73	-25.00	-27.73
22590.00	H	-	-	-57.65	3.89	53.24	-51.56	-25.00	-26.56

Table 7-63. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	247	9	-68.73	3.51	41.78	-53.48	-25.00	-28.48
7779.00	H	142	313	-62.74	8.55	52.81	-42.45	-25.00	-17.45
10372.00	H	158	50	-73.74	12.14	45.40	-49.86	-25.00	-24.86
12965.00	H	125	67	-77.88	14.30	43.42	-51.84	-25.00	-26.84
15558.00	H	-	-	-78.89	13.58	41.69	-53.57	-25.00	-28.57
18151.00	H	-	-	-57.37	1.20	50.84	-44.42	-25.00	-19.42
20744.00	H	-	-	-57.94	3.31	52.37	-52.43	-25.00	-27.43

Table 7-64. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	H	269	9	-67.92	3.59	42.67	-52.58	-25.00	-27.58
8040.00	H	118	332	-65.59	9.23	50.64	-44.61	-25.00	-19.61
10720.00	H	113	10	-77.69	12.79	42.10	-53.16	-25.00	-28.16
13400.00	H	214	49	-78.57	14.97	43.40	-51.86	-25.00	-26.86
16080.00	H	-	-	-79.70	14.58	41.88	-53.38	-25.00	-28.38
18760.00	H	-	-	-57.30	1.49	51.19	-44.06	-25.00	-19.06
21440.00	H	-	-	-57.95	3.77	52.82	-51.98	-25.00	-26.98

Table 7-65. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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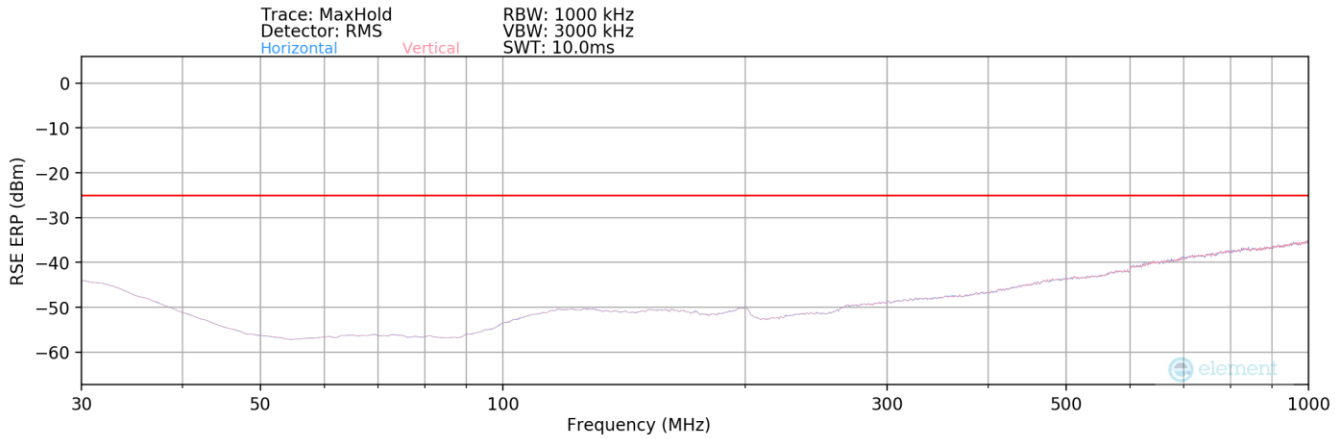
Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
785.00	H	-	-	-84.09	30.01	52.92	-44.48	-25.00	-19.48

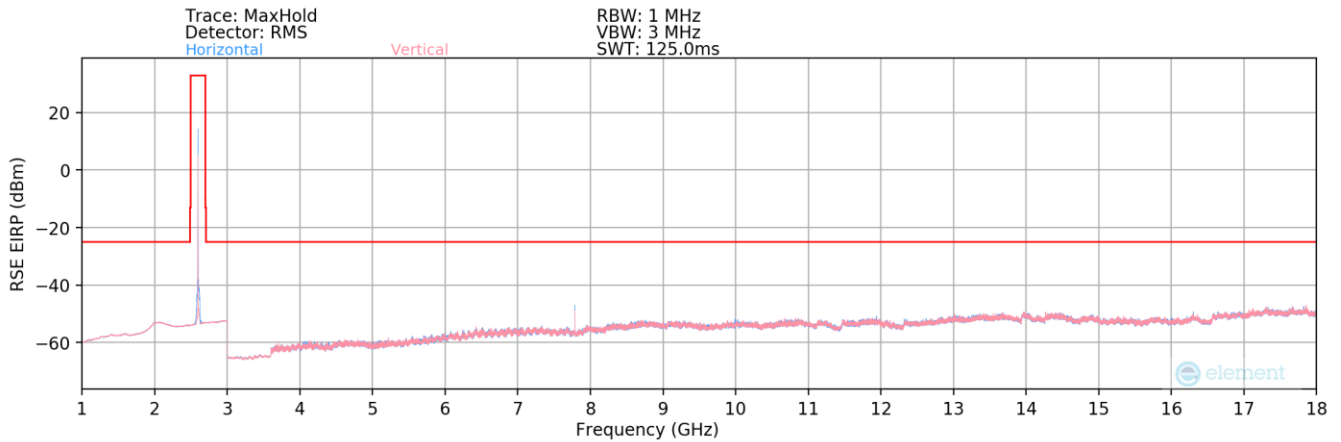
Table 7-66. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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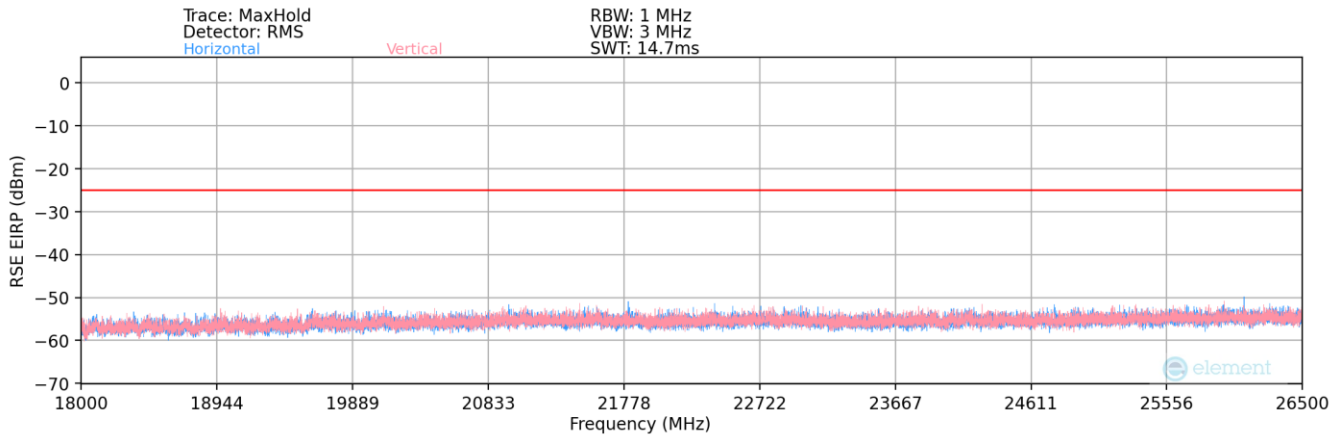
## LTE Band 38 – Ant2



Plot 7-237. Radiated Spurious Plot (LTE Band 38 – Ant2)



Plot 7-238. Radiated Spurious Plot (LTE Band 38 – Ant2)



Plot 7-239. Radiated Spurious Plot (LTE Band 38 – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2580.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5160.00	H	156	306	-76.80	3.42	33.62	-61.63	-25.00	-36.63
7740.00	H	167	310	-70.35	8.28	44.93	-50.33	-25.00	-25.33
10320.00	H	164	51	-75.91	11.81	42.90	-52.36	-25.00	-27.36
12900.00	H	-	-	-79.13	13.86	41.73	-53.52	-25.00	-28.52
15480.00	H	-	-	-79.30	13.84	41.54	-53.72	-25.00	-28.72

Table 7-67. Radiated Spurious Data (LTE Band 38 – Low Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2595.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5190.00	H	199	14	-75.91	3.53	34.62	-60.64	-25.00	-35.64
7785.00	H	146	317	-69.03	8.52	46.49	-48.77	-25.00	-23.77
10380.00	H	130	56	-77.00	12.26	42.26	-53.00	-25.00	-28.00
12975.00	H	-	-	-79.39	14.34	41.95	-53.30	-25.00	-28.30
15570.00	H	-	-	-78.93	13.45	41.52	-53.74	-25.00	-28.74

Table 7-68. Radiated Spurious Data (LTE Band 38 – Mid Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2610.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5220.00	H	147	10	-74.91	3.72	35.81	-59.45	-25.00	-34.45
7830.00	H	152	308	-72.10	8.88	43.78	-51.48	-25.00	-26.48
10440.00	H	148	60	-78.91	12.88	40.97	-54.29	-25.00	-29.29
13050.00	H	-	-	-79.05	14.40	42.35	-52.91	-25.00	-27.91
15660.00	H	-	-	-79.18	13.98	41.80	-53.46	-25.00	-28.46

Table 7-69. Radiated Spurious Data (LTE Band 38 – High Channel – Ant2)

Bandwidth (MHz):	20
Frequency (MHz):	2595.0
RB / Offset:	1 / 50

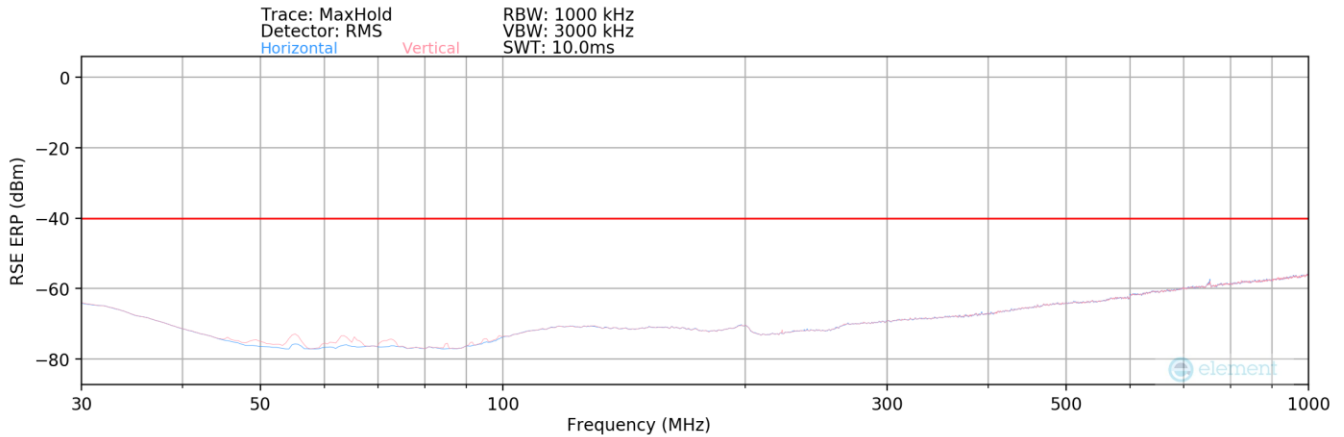
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
00	H	-	-	-84.16	27.37	50.21	-47.20	-25.00	-22.20

Table 7-70. Radiated Spurious Data (LTE Band 38 – Mid Channel – Ant2)

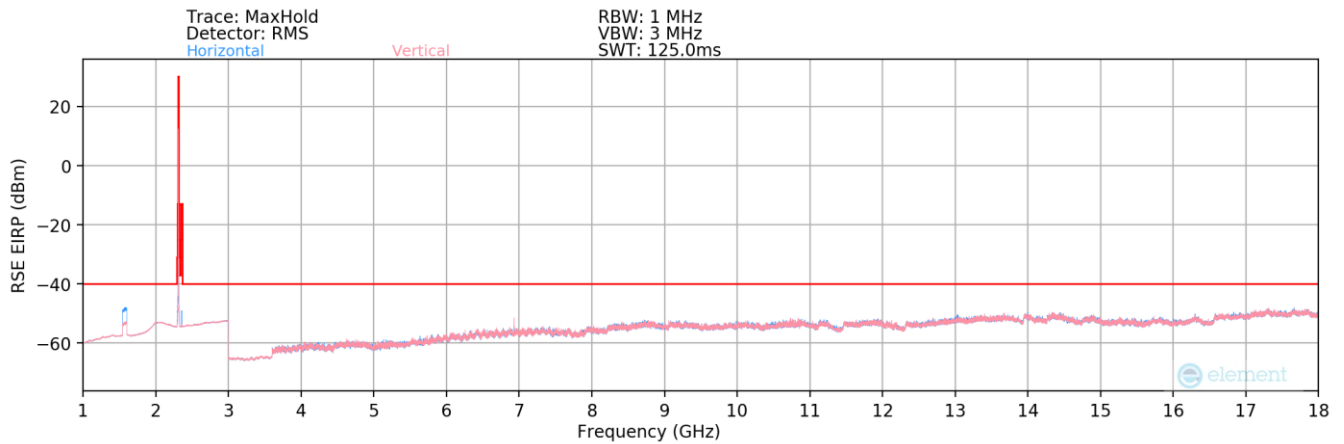
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## NR Band n30 – Ant2



Plot 7-240. Radiated Spurious Plot (NR Band n30 – Ant2)



Plot 7-241. Radiated Spurious Plot (NR Band n30 – Ant2)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	V	171	336	-74.96	3.08	35.12	-60.14	-40.00	-20.14
6930.00	V	251	347	-73.53	8.39	41.86	-53.40	-40.00	-13.40
9240.00	V	-	-	-80.55	10.92	37.37	-57.89	-40.00	-17.89
11550.00	V	-	-	-81.67	13.28	38.61	-56.64	-40.00	-16.64
13860.00	V	-	-	-82.77	16.62	40.85	-54.41	-40.00	-14.41

Table 7-71. Radiated Spurious Data (NR Band n30 – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
50.00	V	-	-	-95.82	14.80	25.98	-71.43	-40.00	-31.43
55.00	V	400	191	-95.22	13.97	25.75	-71.66	-40.00	-31.66
64.00	V	-	-	-95.72	14.69	25.97	-71.44	-40.00	-31.44
73.00	V	-	-	-95.79	15.06	26.27	-71.14	-40.00	-31.14
95.00	V	175	320	-95.64	15.98	27.34	-70.07	-40.00	-30.07
754.00	V	-	-	-93.19	29.59	43.40	-54.01	-40.00	-14.01

Table 7-72. Radiated Spurious Data (NR Band n30 – Ant2)

FCC ID: A3LSMA356U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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