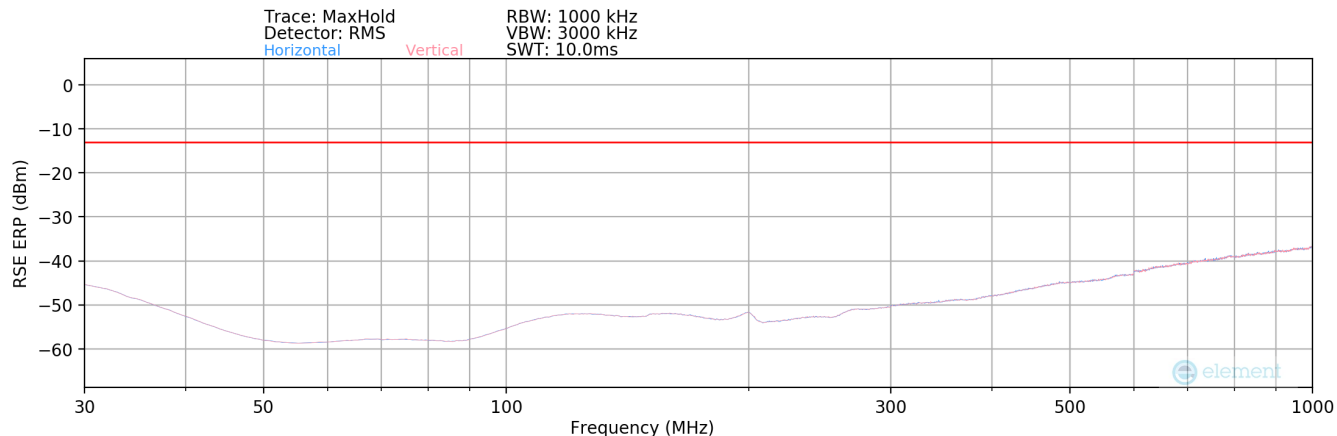
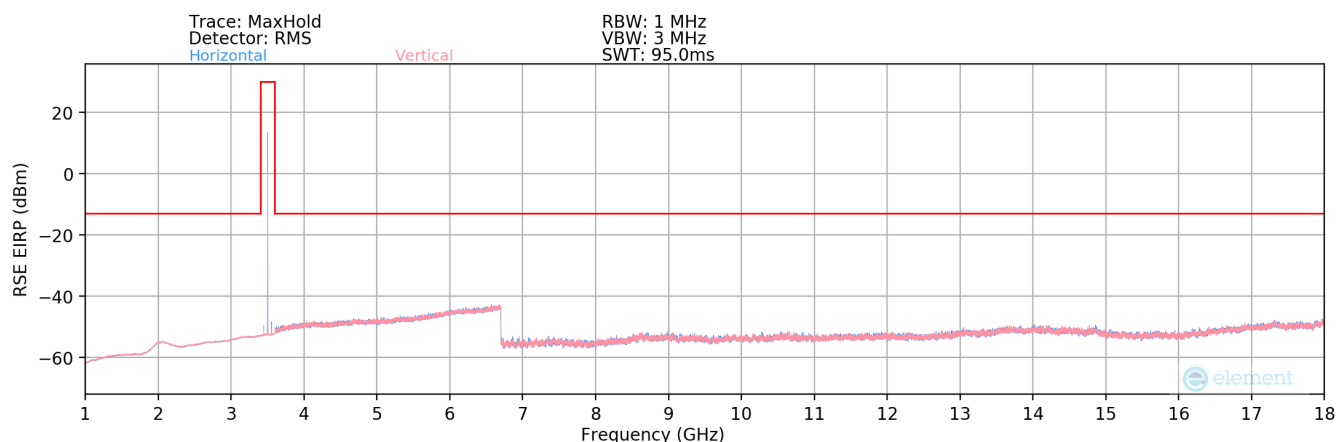


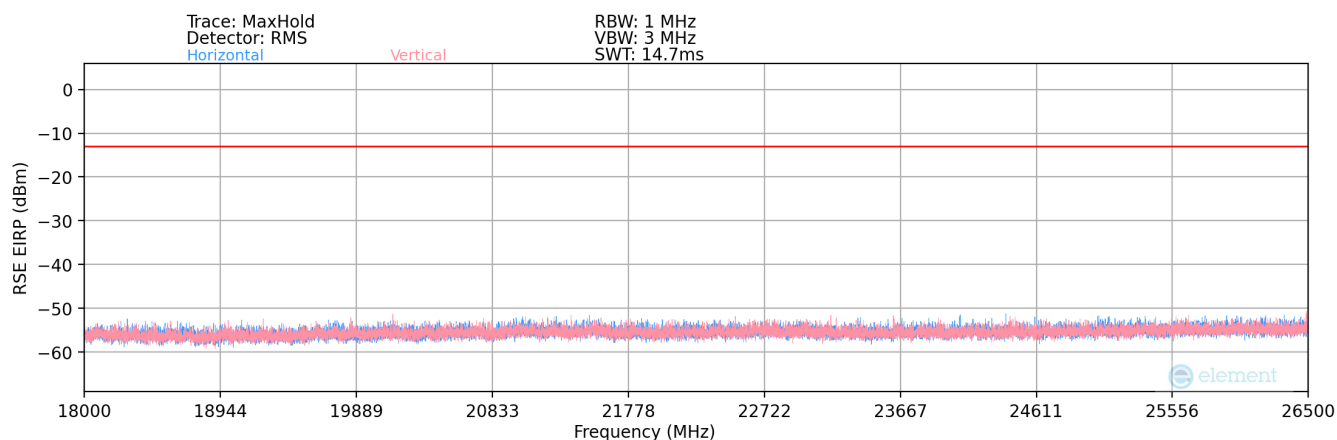
NR Band n77 – Ant2 – DoD Band – Main



Plot 7-183. Radiated Spurious Plot (NR Band n77) – Ant2 – DoD Band – Main



Plot 7-184. Radiated Spurious Plot (NR Band n77) – Ant2 – DoD Band – Main



Plot 7-185. Radiated Spurious Plot (NR Band n77) – Ant2 – DoD Band – Main

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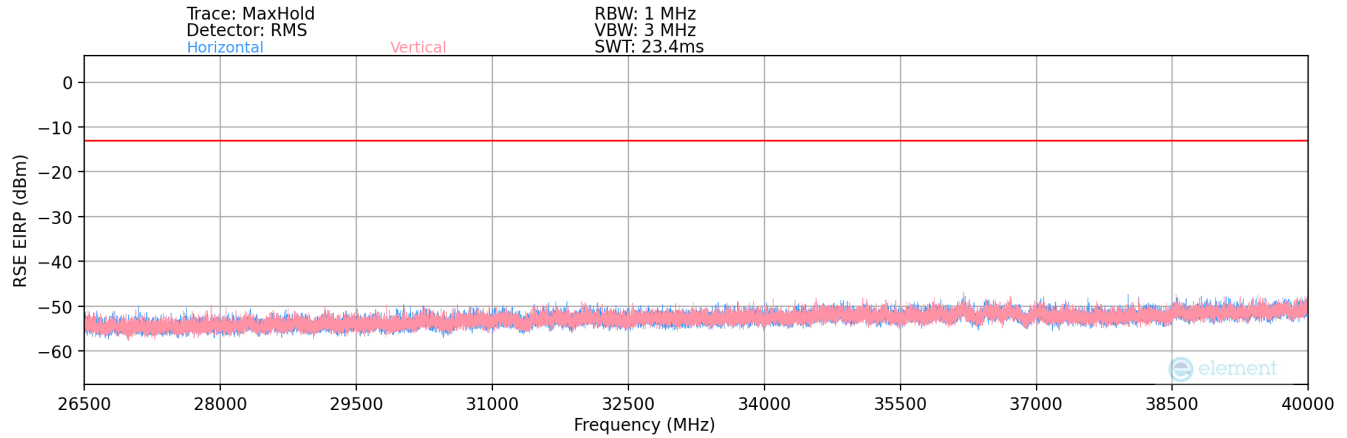


Table 7-44. Radiated Spurious Data (NR Band n77) – Ant2 – DoD Band – Main

Frequency (MHz):	3500.01
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
562.00	H	-	-	-86.97	26.72	46.75	-50.66	-13.00	-37.66

Table 7-45. Radiated Spurious Data (NR Band n77) – Ant2 – DoD Band – Main

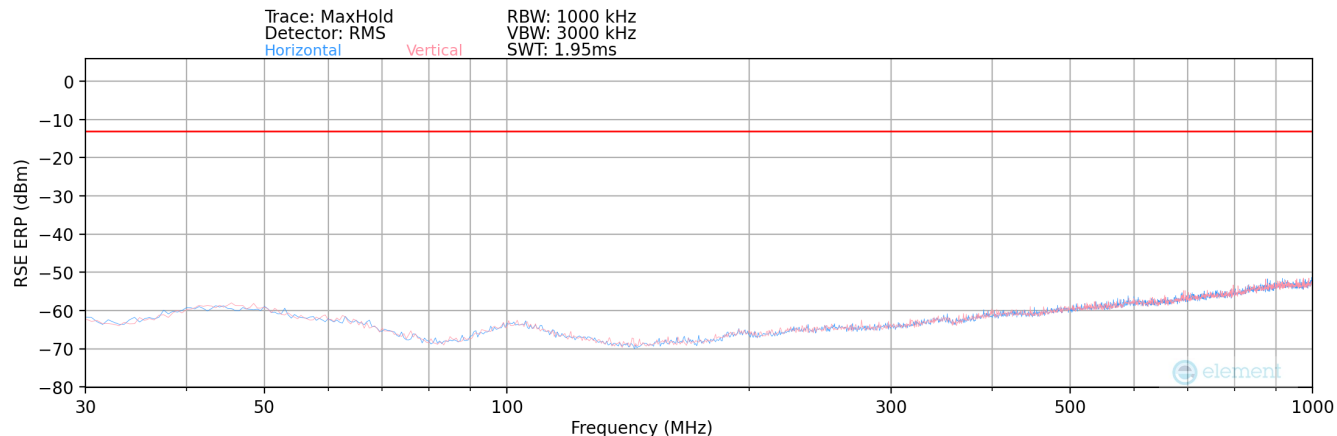
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136

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]
7000.02	H	-	-	-77.55	8.93	38.38	-56.88	-13.00	-43.88
10500.03	H	-	-	-79.08	12.76	40.68	-54.58	-13.00	-41.58
14000.04	H	-	-	-80.22	15.88	42.66	-52.60	-13.00	-39.60
17500.05	H	-	-	-80.09	17.05	43.96	-51.30	-13.00	-38.30

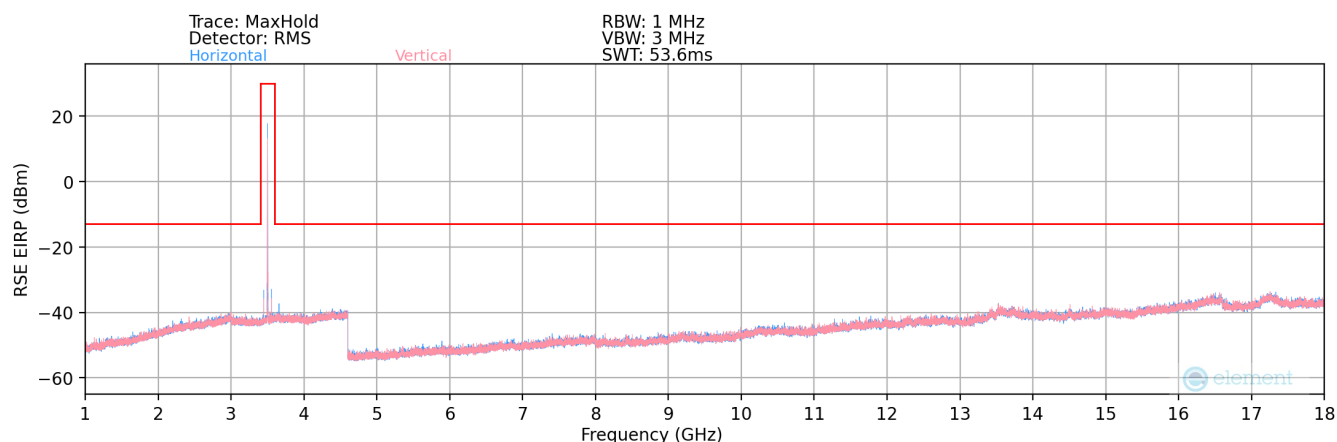
Table 7-46. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant2 – DoD Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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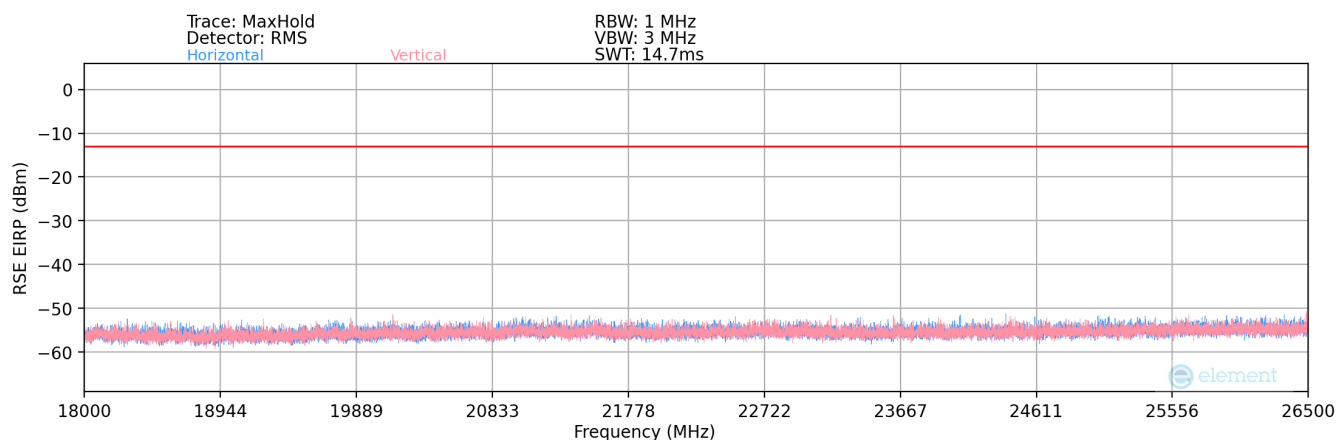
NR Band n77 – Ant3 – DoD Band – Main



Plot 7-186. Radiated Spurious Plot (NR Band n77) – Ant3 – DoD Band – Main



Plot 7-187. Radiated Spurious Plot (NR Band n77) – Ant3 – DoD Band – Main



Plot 7-188. Radiated Spurious Plot (NR Band n77) – Ant3 – DoD Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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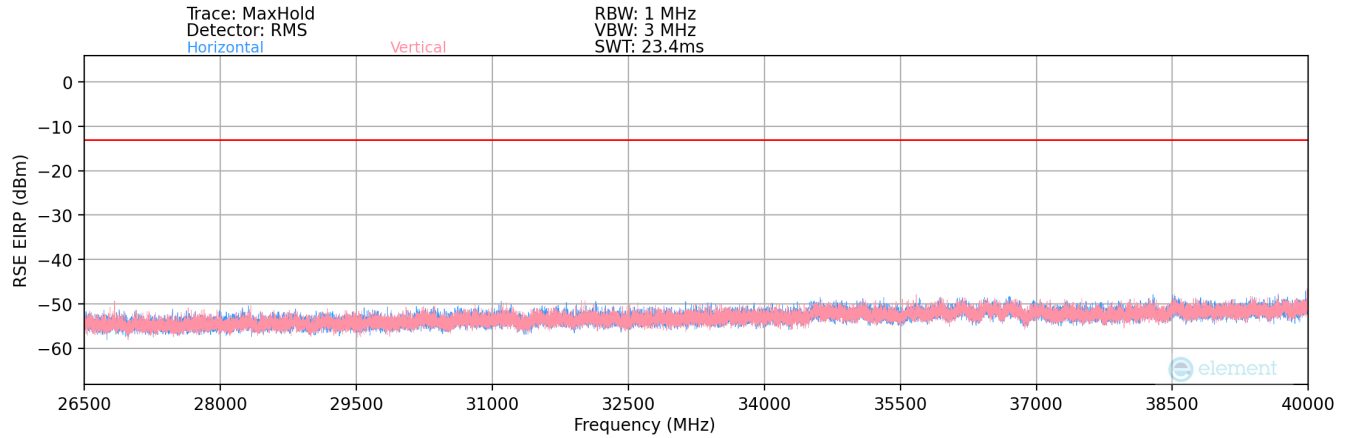


Table 7-47. Radiated Spurious Data (NR Band n77) – Ant3 – DoD Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
300.00	V	-	-	-75.37	-11.28	20.35	-77.06	-13.00	-64.06

Table 7-48. Radiated Spurious Data (NR Band n77) – Ant3 – DoD Band – Main

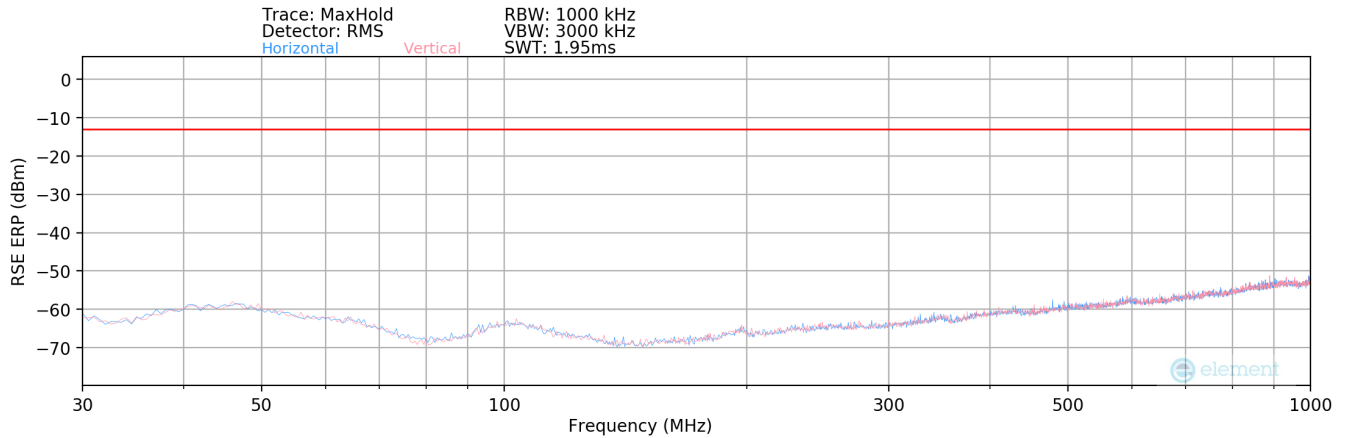
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136

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]
7000.02	V	-	-	-75.49	14.81	46.32	-48.94	-13.00	-35.94
10500.03	V	-	-	-77.03	20.12	50.09	-45.17	-13.00	-32.17
14000.04	V	-	-	-79.77	25.85	53.08	-42.18	-13.00	-29.18

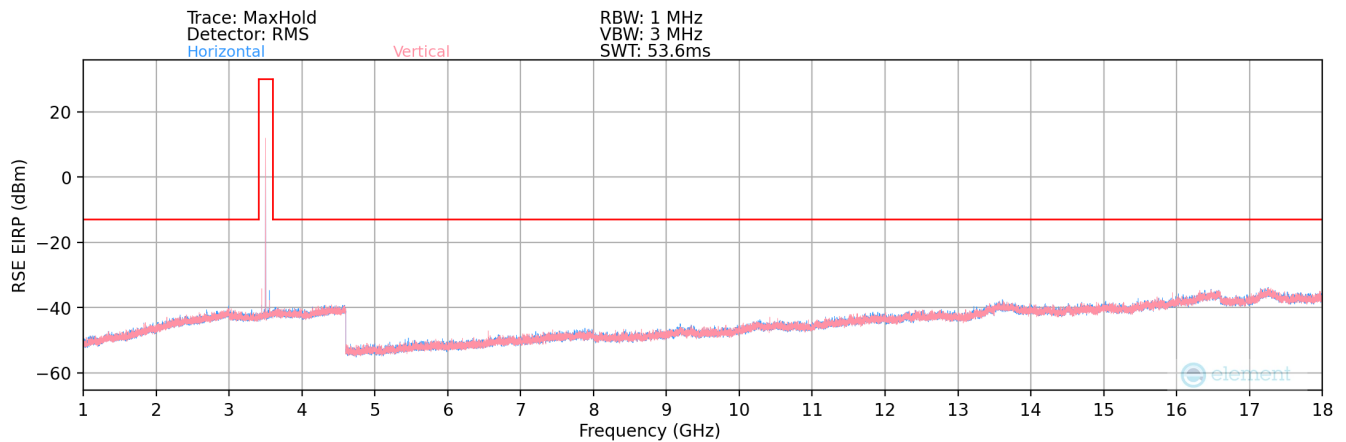
Table 7-49. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant3 – DoD Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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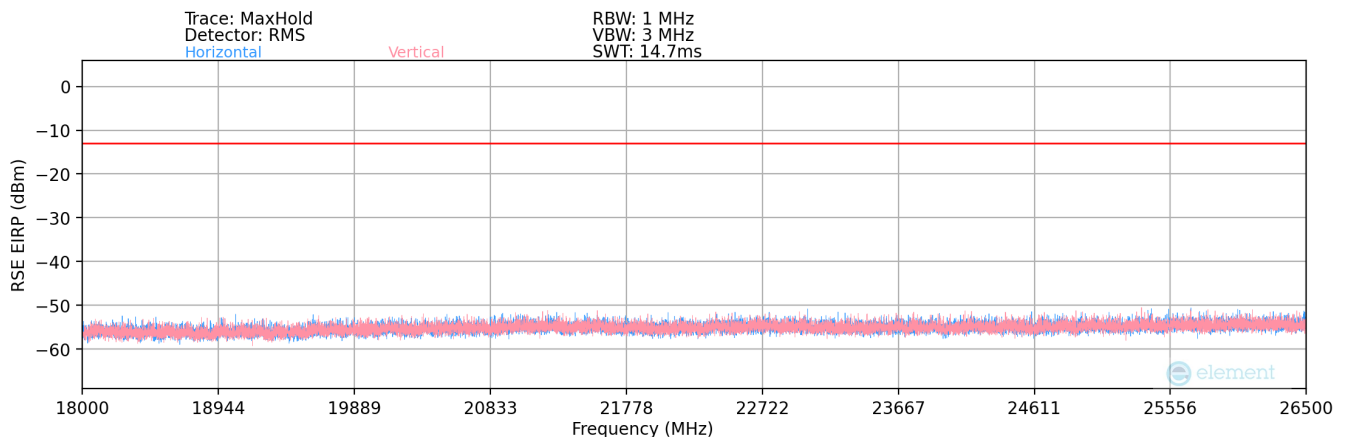
NR Band n77 – Ant4 – DoD Band – Main



Plot 7-189. Radiated Spurious Plot (NR Band n77) – Ant4 – DoD Band – Main



Plot 7-190. Radiated Spurious Plot (NR Band n77) – Ant4 – DoD Band – Main



Plot 7-191. Radiated Spurious Plot (NR Band n77) – Ant4 – DoD Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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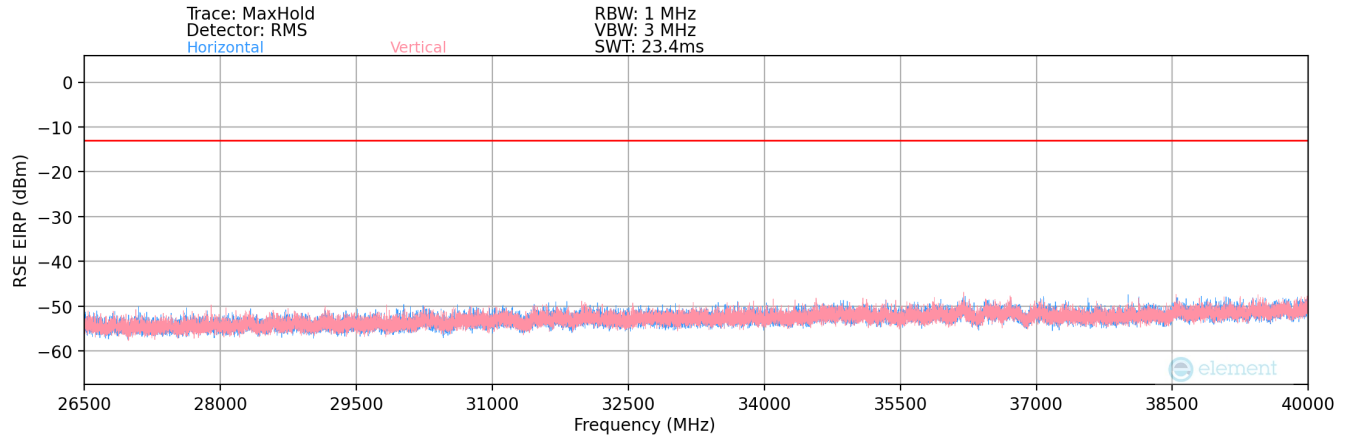


Table 7-50. Radiated Spurious Data (NR Band n77) – Ant4 – DoD Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
200.00	H	-	-	-74.91	-13.65	18.44	-78.97	-13.00	-65.97

Table 7-51. Radiated Spurious Data (NR Band n77) – Ant4 – DoD Band – Main

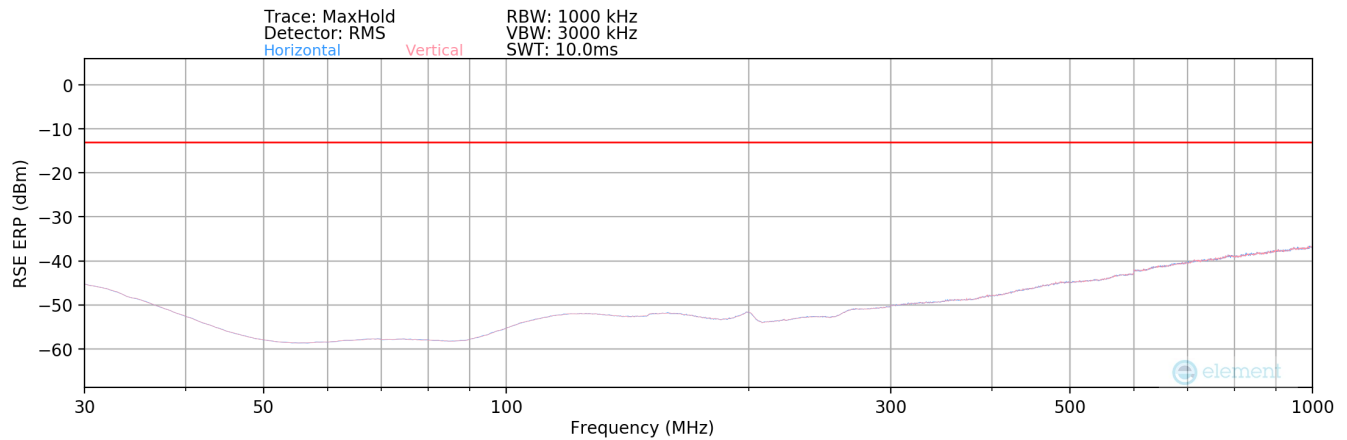
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136

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]
7000.02	H	-	-	-75.23	14.81	46.58	-48.68	-13.00	-35.68
10500.03	H	-	-	-77.49	20.12	49.63	-45.63	-13.00	-32.63
14000.04	H	-	-	-79.52	25.85	53.33	-41.93	-13.00	-28.93

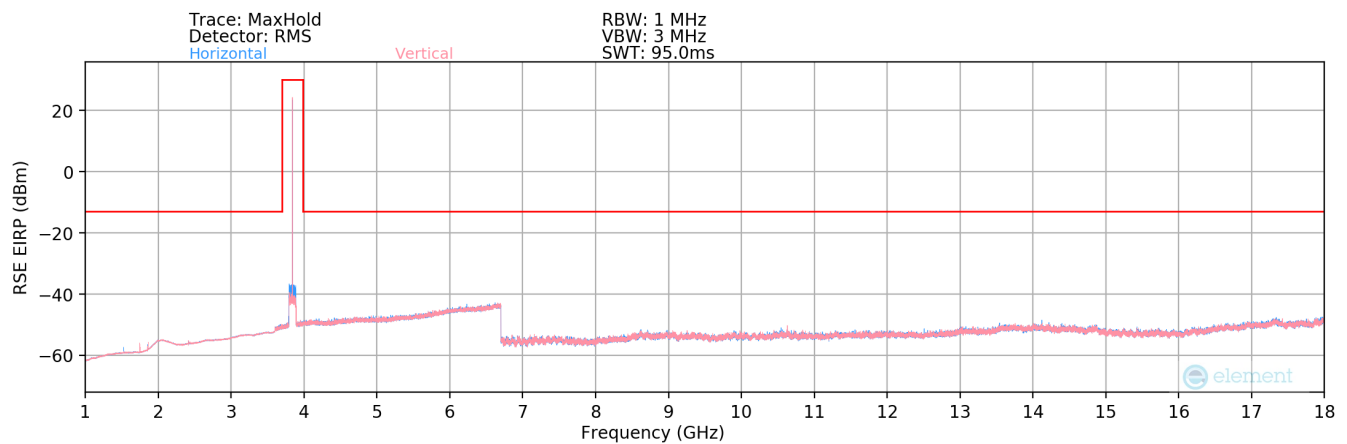
Table 7-52. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant4 – DoD Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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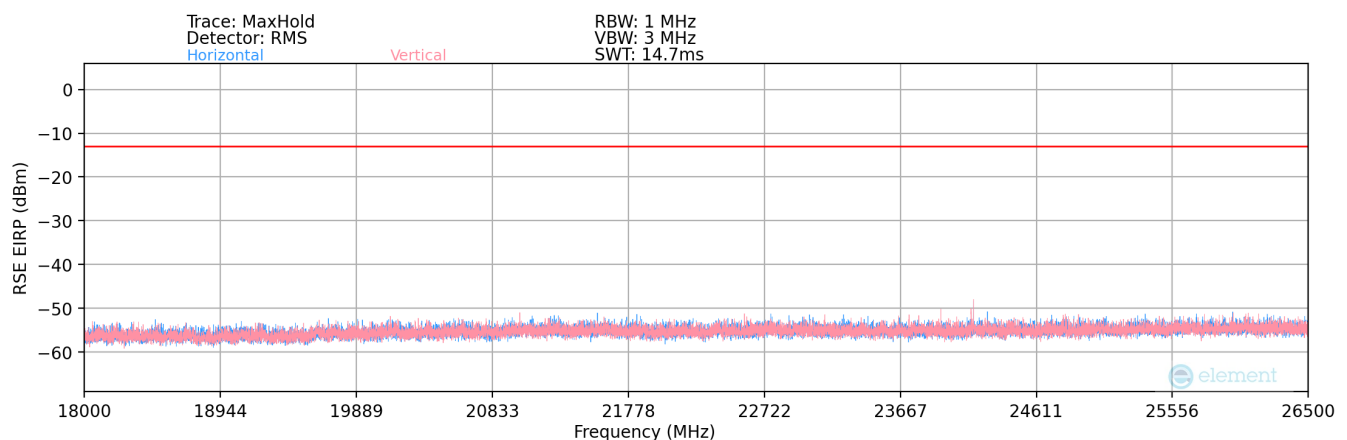
NR Band n77 – Ant1 – C-Band – Main



Plot 7-192. Radiated Spurious Plot (NR Band n77) – Ant1 – C-Band – Main



Plot 7-193. Radiated Spurious Plot (NR Band n77) – Ant1 – C-Band – Main



Plot 7-194. Radiated Spurious Plot (NR Band n77) – Ant1 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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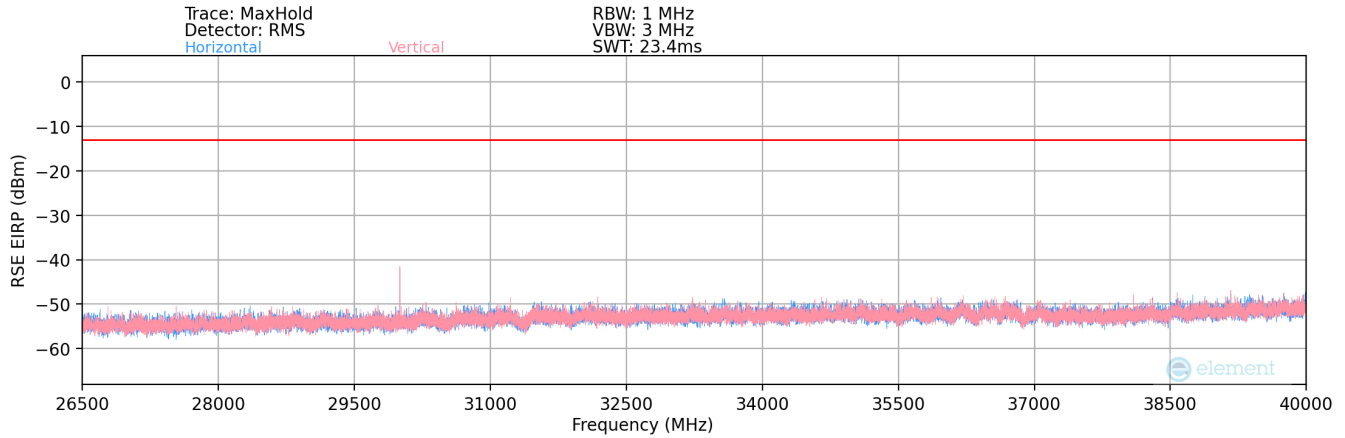


Table 7-53. Radiated Spurious Data (NR Band n77) – Ant1 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
766.72	H	-	-	-86.05	29.44	50.39	-47.02	-13.00	-34.02

Table 7-54. Radiated Spurious Data (NR Band n77) – Ant1 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	H	-	-	-77.74	9.84	39.10	-56.16	-13.00	-43.16
11250.00	H	-	-	-79.21	12.56	40.35	-54.91	-13.00	-41.91
15000.00	H	-	-	-79.88	14.31	41.43	-53.83	-13.00	-40.83

Table 7-55. Radiated Spurious Data (NR Band n77 – Low Channel) – Ant1 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	H	150	244	-73.89	8.96	42.07	-53.19	-13.00	-40.19
11520.00	H	-	-	-79.25	13.06	40.81	-54.44	-13.00	-41.44
15360.00	H	-	-	-79.61	14.26	41.65	-53.61	-13.00	-40.61
19200.00	H	-	-	-71.50	1.89	37.39	-67.41	-13.00	-54.41

Table 7-56. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant1 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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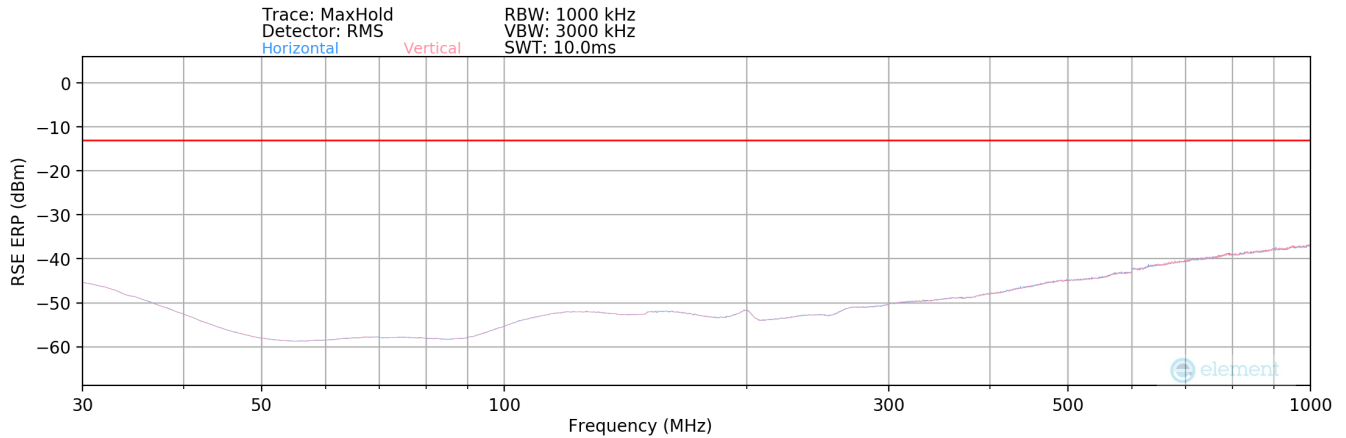
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136

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]
7860.00	H	159	240	-76.58	9.53	39.95	-55.31	-13.00	-42.31
11790.00	H	-	-	-79.59	13.28	40.69	-54.57	-13.00	-41.57
15720.00	H	-	-	-80.11	14.94	41.83	-53.43	-13.00	-40.43
19650.00	H	-	-	-71.12	2.27	38.15	-66.65	-13.00	-53.65

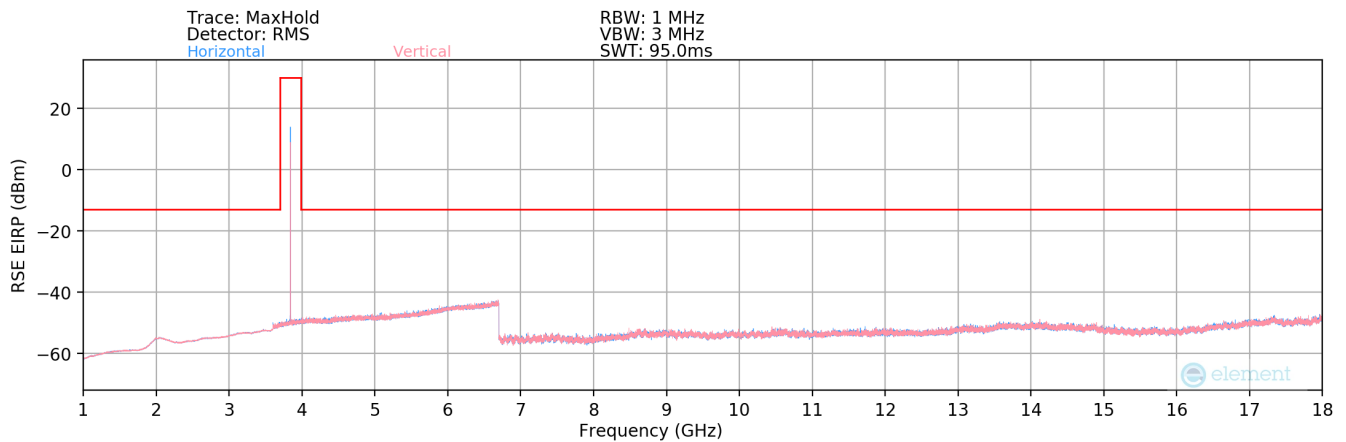
Table 7-57. Radiated Spurious Data (NR Band n77 – High Channel) – Ant1 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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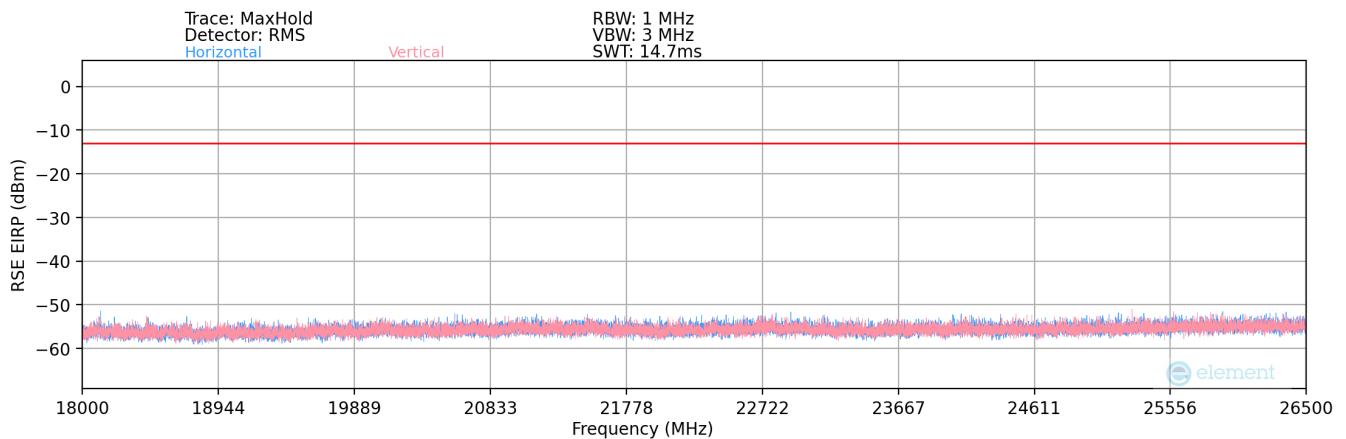
NR Band n77 – Ant2 – C-Band – Main



Plot 7-195. Radiated Spurious Plot (NR Band n77) – Ant2 – C-Band – Main

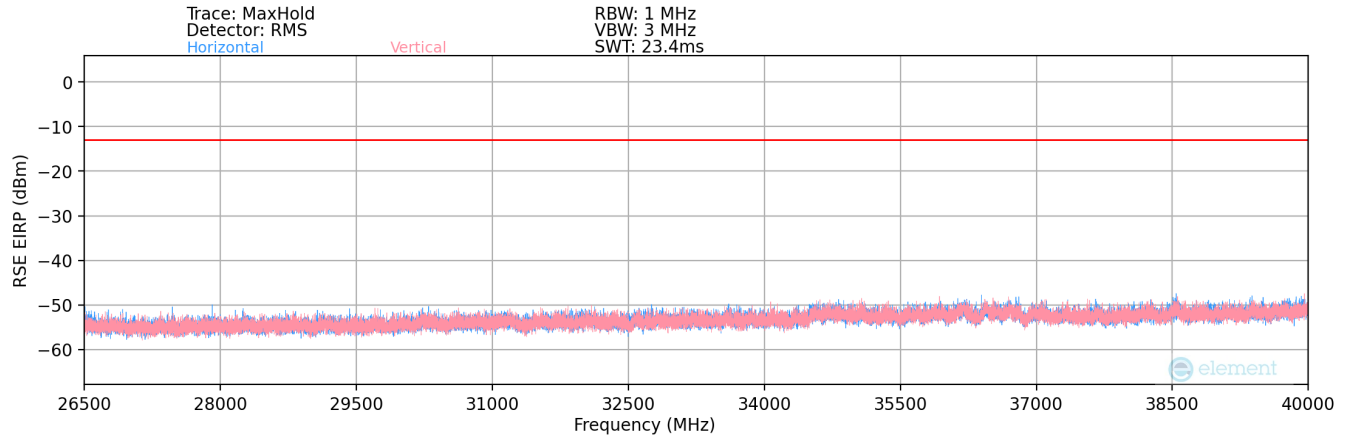


Plot 7-196. Radiated Spurious Plot (NR Band n77) – Ant2 – C-Band – Main



Plot 7-197. Radiated Spurious Plot (NR Band n77) – Ant2 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-198. Radiated Spurious Plot (NR Band n77) – Ant2 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
316.00	H	-	-	-86.33	21.58	42.25	-55.16	-13.00	-42.16

Table 7-58. Radiated Spurious Data (NR Band n77) – Ant2 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	H	-	-	-77.69	10.39	39.70	-55.56	-13.00	-42.56
11250.00	H	-	-	-79.08	10.39	38.31	-56.95	-13.00	-43.95
15000.00	H	-	-	-80.06	10.39	37.33	-57.93	-13.00	-44.93

Table 7-59. Radiated Spurious Data (NR Band n77 – Low Channel) – Ant2 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	H	-	-	-77.32	10.39	40.07	-55.19	-13.00	-42.19
11520.00	H	-	-	-79.61	10.39	37.78	-57.48	-13.00	-44.48
15360.00	H	-	-	-80.21	10.39	37.18	-58.08	-13.00	-45.08

Table 7-60. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant2 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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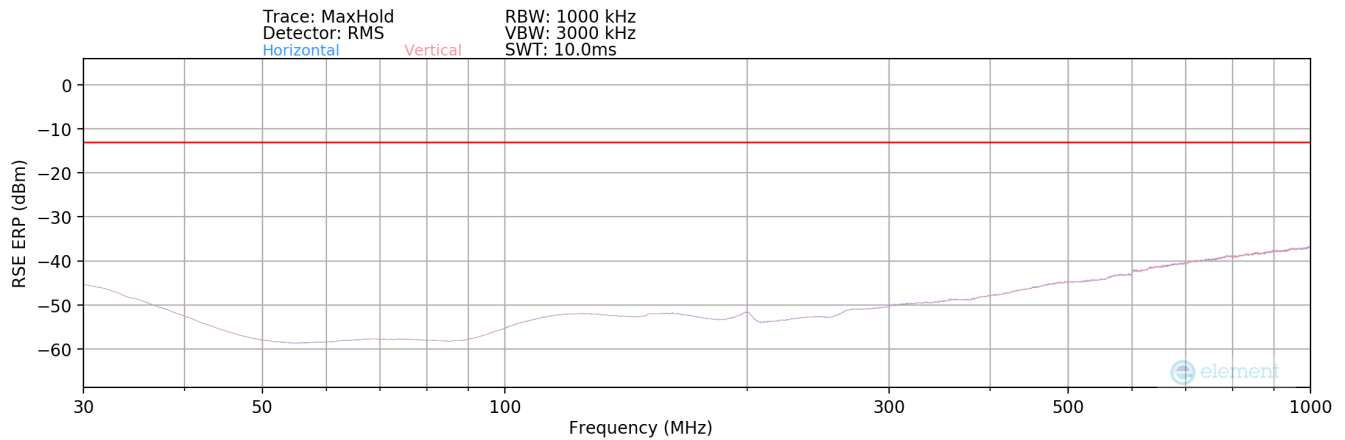
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136

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]
7860.00	H	-	-	-77.91	10.39	39.48	-55.78	-13.00	-42.78
11790.00	H	-	-	-80.16	10.39	37.23	-58.03	-13.00	-45.03
15720.00	H	-	-	-80.45	10.39	36.94	-58.32	-13.00	-45.32

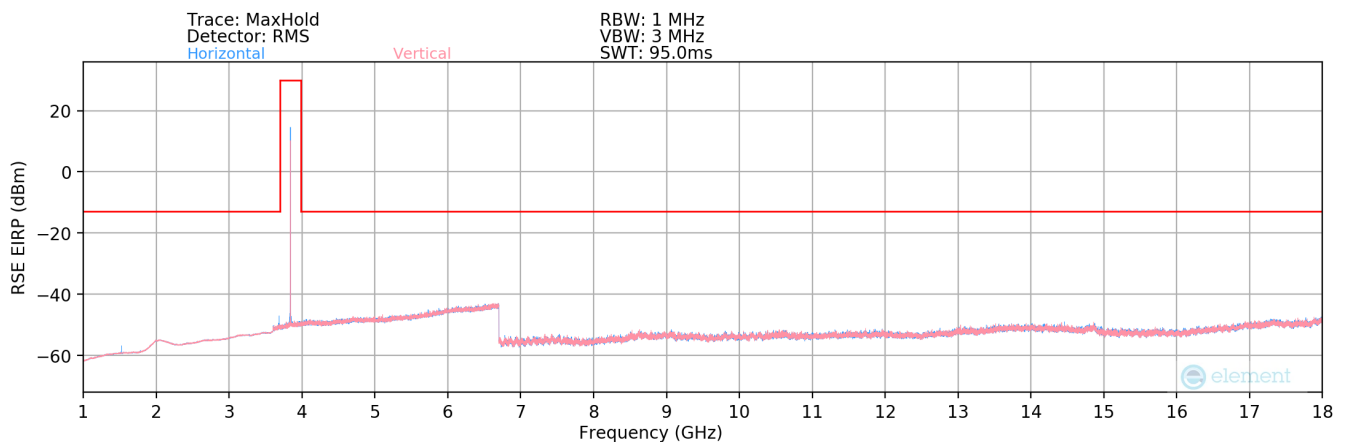
Table 7-61. Radiated Spurious Data (NR Band n77 – High Channel) – Ant2 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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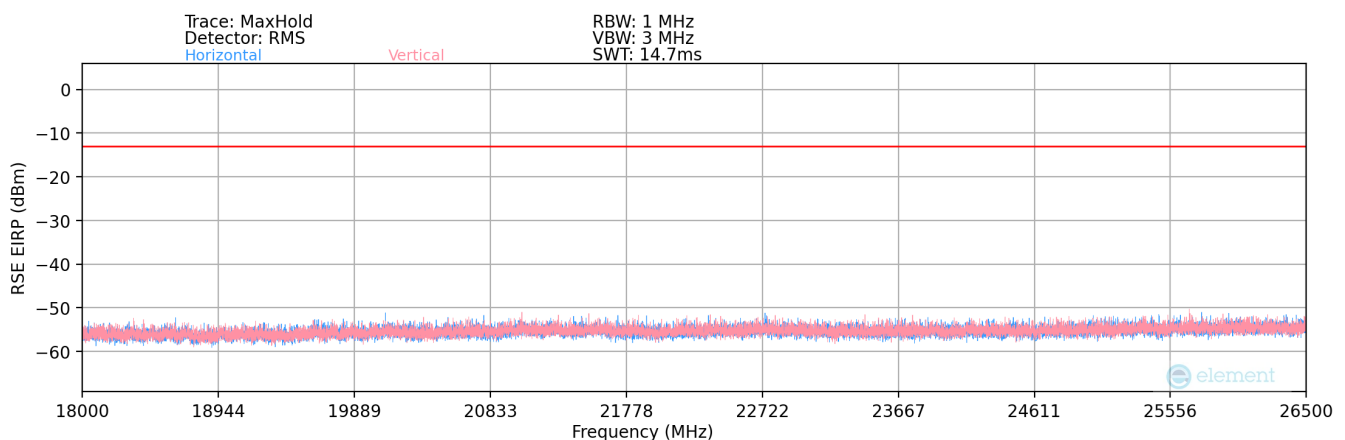
NR Band n77 – Ant3 – C-Band – Main



Plot 7-199. Radiated Spurious Plot (NR Band n77) – Ant3 – C-Band – Main



Plot 7-200. Radiated Spurious Plot (NR Band n77) – Ant3 – C-Band – Main



Plot 7-201. Radiated Spurious Plot (NR Band n77) – Ant3 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2502270019-05.A3L	Test Dates: 2/24/2025 - 4/30/2025	EUT Type: Portable Handset	Page 160 of 171

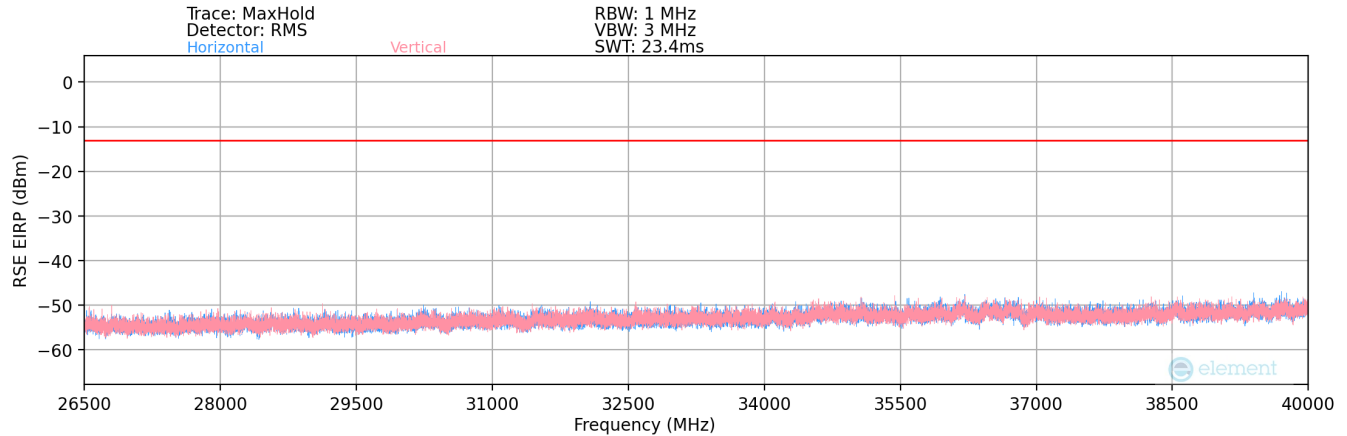


Table 7-62. Radiated Spurious Data (NR Band n77) – Ant3 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
589.00	V	-	-	-86.03	27.05	48.02	-49.38	-13.00	-36.38

Table 7-63. Radiated Spurious Data (NR Band n77) – Ant3 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	V	-	-	-77.94	9.84	38.90	-56.36	-13.00	-43.36
11250.00	V	-	-	-79.23	12.56	40.33	-54.93	-13.00	-41.93
15000.00	V	-	-	-79.83	14.31	41.48	-53.78	-13.00	-40.78

Table 7-64. Radiated Spurious Data (NR Band n77 – Low Channel) – Ant3 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	V	-	-	-77.49	8.96	38.47	-56.79	-13.00	-43.79
11520.00	V	-	-	-79.12	13.06	40.94	-54.31	-13.00	-41.31
15360.00	V	-	-	-79.82	14.26	41.44	-53.82	-13.00	-40.82

Table 7-65. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant3 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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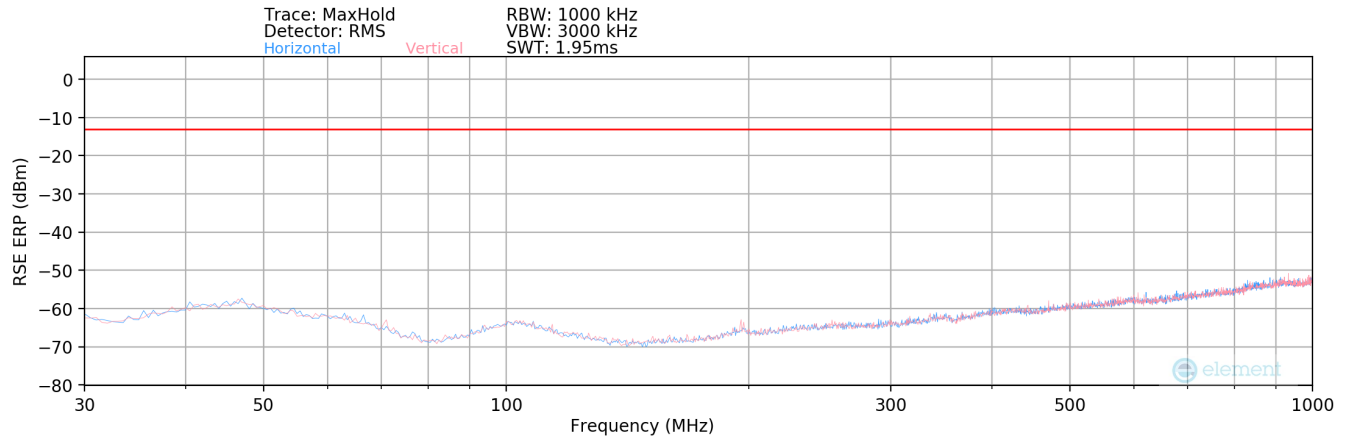
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136

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]
7860.00	V	-	-	-77.67	9.53	38.86	-56.40	-13.00	-43.40
11790.00	V	-	-	-80.00	13.28	40.28	-54.98	-13.00	-41.98
15720.00	V	-	-	-80.31	14.94	41.63	-53.63	-13.00	-40.63

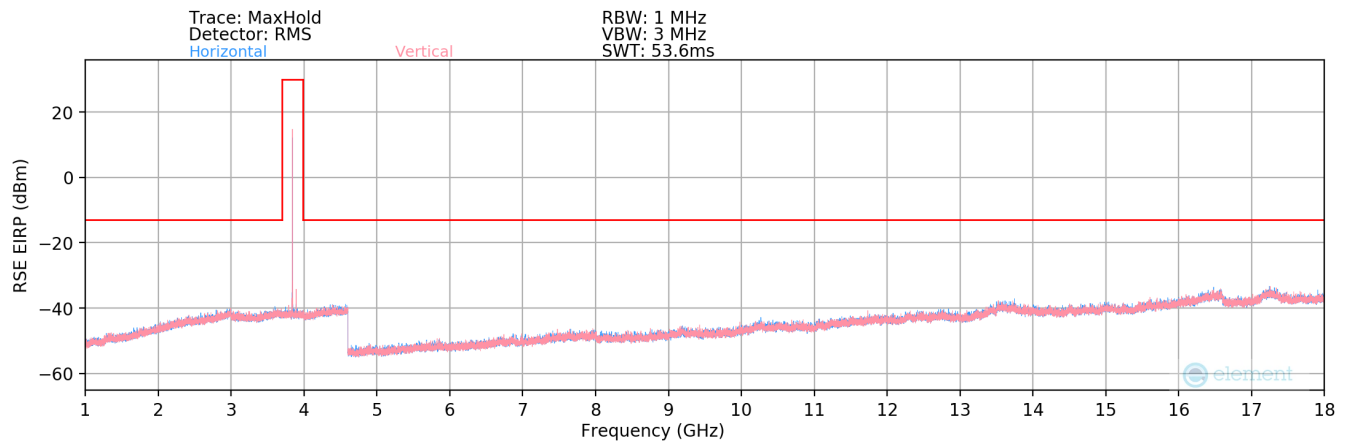
Table 7-66. Radiated Spurious Data (NR Band n77 – High Channel) – Ant3 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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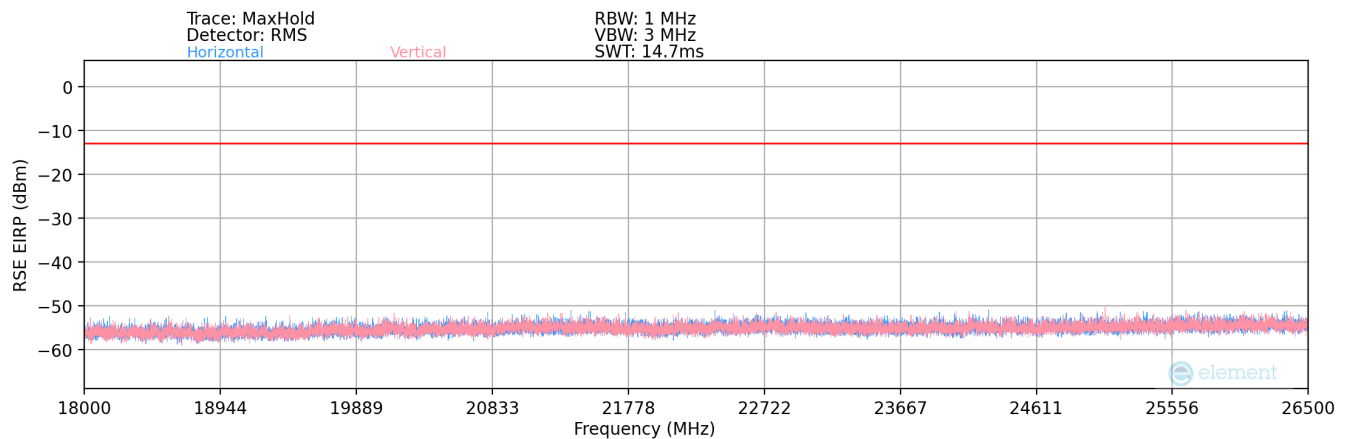
NR Band n77 – Ant4 – C-Band – Main



Plot 7-202. Radiated Spurious Plot (NR Band n77) – Ant4 – C-Band – Main

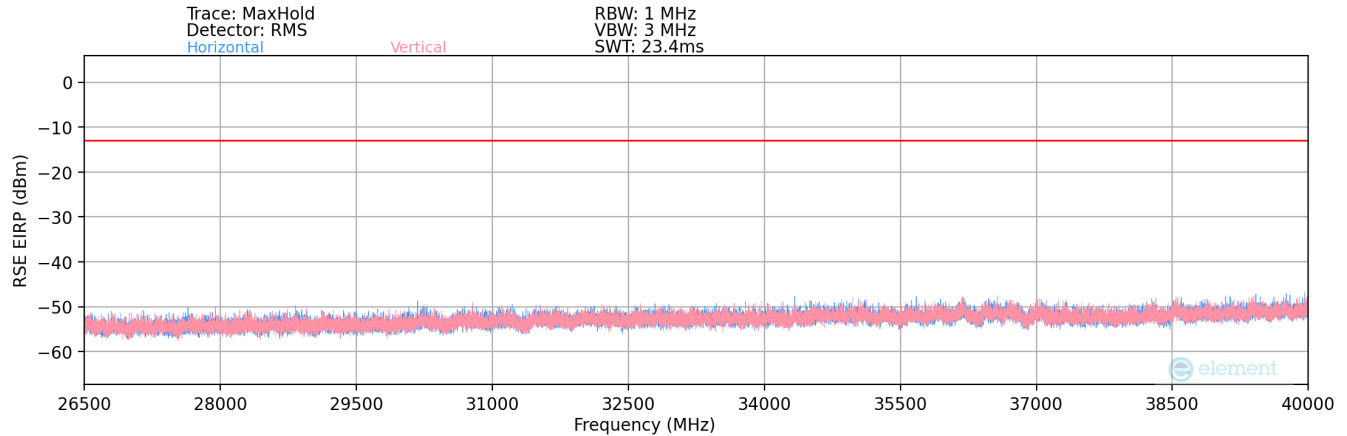


Plot 7-203. Radiated Spurious Plot (NR Band n77) – Ant4 – C-Band – Main



Plot 7-204. Radiated Spurious Plot (NR Band n77) – Ant4 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-205. Radiated Spurious Plot (NR Band n77) – Ant4 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
200.00	H	-	-	-83.05	-13.65	10.30	-87.11	-13.00	-74.11

Table 7-67. Radiated Spurious Data (NR Band n77) – Ant4 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
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]
7500.00	H	-	-	-75.75	15.93	47.18	-48.08	-13.00	-35.08
11250.00	H	-	-	-78.08	21.40	50.32	-44.94	-13.00	-31.94

Table 7-68. Radiated Spurious Data (NR Band n77 – Low Channel) – Ant4 – C-Band – Main

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
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]
7680.00	H	-	-	-75.57	15.87	47.30	-47.95	-13.00	-34.95
11520.00	H	-	-	-78.04	22.36	51.32	-43.94	-13.00	-30.94
15360.00	H	-	-	-80.41	27.56	54.15	-41.10	-13.00	-28.10

Table 7-69. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant4 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	3930.00
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]
7860.00	H	-	-	-74.73	16.02	48.29	-46.97	-13.00	-33.97
11790.00	H	-	-	-76.89	21.49	51.60	-43.65	-13.00	-30.65
15720.00	H	-	-	-79.80	28.48	55.68	-39.58	-13.00	-26.58

Table 7-70. Radiated Spurious Data (NR Band n77 – High Channel) – Ant4 – C-Band – Main

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

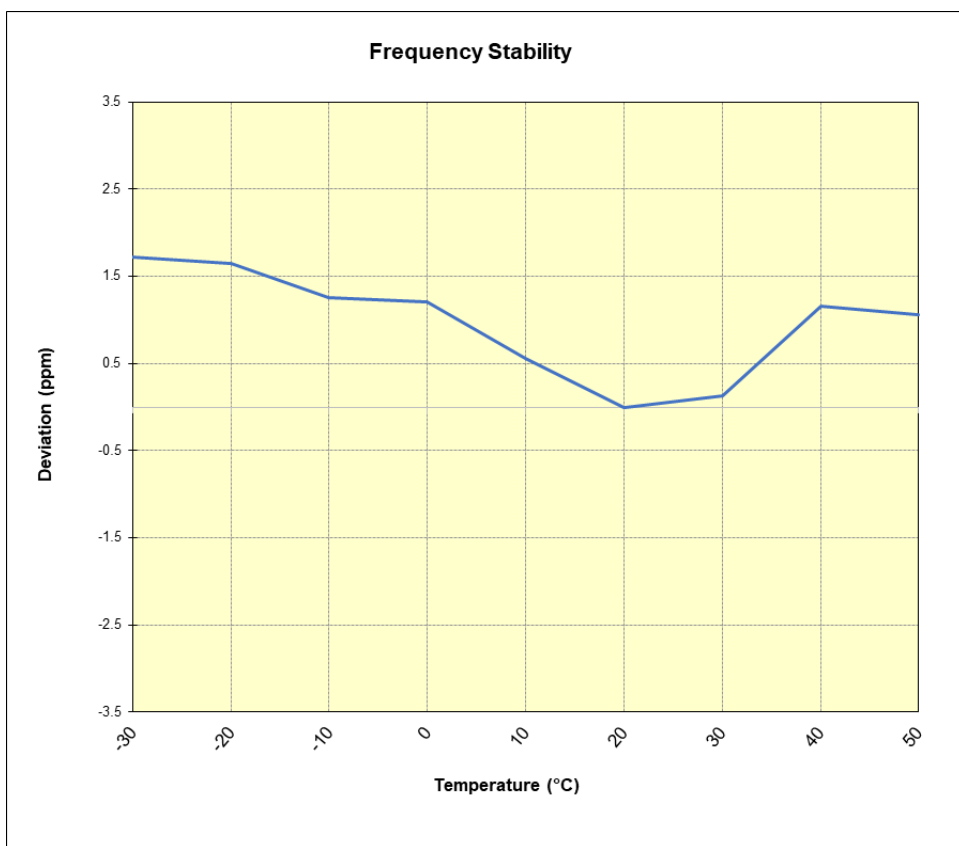
FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77

Operating Frequency (Hz):	3,840,000,000
Ref. Voltage (VDC):	4.44

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.44	- 30	3,839,987,985	6,626	0.0001726
		- 20	3,839,987,683	6,324	0.0001647
		- 10	3,839,986,160	4,801	0.0001250
		0	3,839,986,014	4,655	0.0001212
		+ 10	3,839,983,523	2,164	0.0000564
		+ 20 (Ref)	3,839,981,359	0	0.0000000
		+ 30	3,839,981,844	485	0.0000126
		+ 40	3,839,985,818	4,459	0.0001161
		+ 50	3,839,985,420	4,061	0.0001058
Battery Endpoint	3.67	+ 20	3,839,982,114	755	0.0000197

Table 7-71. NR Band n77 Frequency Stability Data



Plot 7-206. NR Band n77 Frequency Stability Chart

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMF966B** complies with all the requirements of Part 27 of the FCC rules. The data referenced from FCC ID: A3LSMF966U (Model SM-F966U) included in this report have been reviewed and are deemed acceptable to support the compliance of **FCC ID: A3LSMF966B**.

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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9.0 APPENDIX A – DATA REFERENCING SPOT-CHECKS

Overview

The spot-check data presented in this section was measured on the variant model following the guidance of the FCC's Data Referencing guidance in KDB 484596 v03. Each spot-check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device. For the worst-case RSE data, the measurement is determined by an actual emission and not by noise floor.

All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.10-2013.

Notes

1. Each spot check test on the EUT was performed using the same procedure and setting that were used to perform the test on the corresponding reference device.
2. All test cases were performed to verify the variant EUT is still in compliance with the spot-checked results to the reference device and was performed using the guidance of ANSI C63.26-2015.

Conducted Spot-Checks – SM-F966B/DS

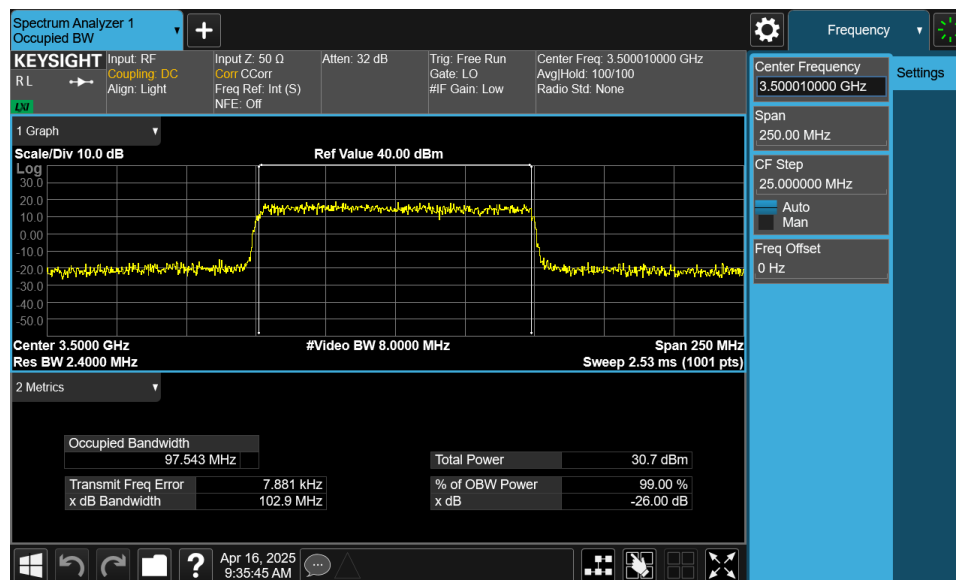
Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	633334	3500.01	273 / 0	26.78

Table 9-1. Conducted Output Power Measurements NR Band n77 DoD Band (Spot-check)

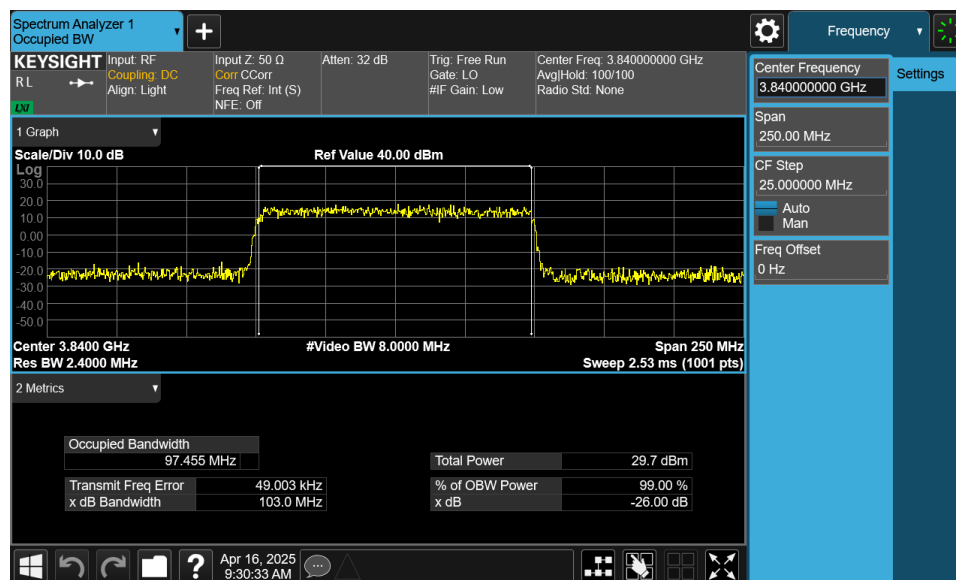
Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]
100 MHz	$\pi/2$ BPSK	656000	3840.00	273 / 0	26.28

Table 9-2. Conducted Output Power Measurements NR Band n77 C- Band (Spot-check)

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 9-1. Occupied Bandwidth (Spot-check) - NR Band n77 DoD Band (Spot-check)



Plot 9-2. Occupied Bandwidth (Spot-check) - NR Band n77 C- Band (Spot-check)

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Radiated Spot-Checks – SM-F966B/DS

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]
30 MHz	$\pi/2$ BPSK	3465.00	H	102	349	6.42	1 / 39	17.32	23.74	0.237	30.00	-6.26

Table 9-3. EIRP Measurements NR Band n77 DoD Band (Spot-check)

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	$\pi/2$ BPSK	3750.00	H	385	97	7.01	1 / 271	19.11	26.12	0.410	30.00	-3.88

Table 9-4. EIRP Measurements NR Band n77 C- Band (Spot-check)

Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7000.02	H	-	-	-77.01	8.93	38.92	-56.34	-13.00	-43.34

Table 9-5. Radiated Spurious Measurements NR Band n77 DoD Band (Spot-check)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1/136

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7680.00	H	149	213	-75.35	8.96	40.61	-54.65	-13.00	-41.65

Table 9-6. Radiated Spurious Measurements NR Band n77 C- Band (Spot-check)

Results

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-F966U	Variant Model: SM-F966B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
27	Conducted Output Power	Mid Ch. 633334, 100MHz, BPSK, AntF - Main	dBm	N/A	26.17	26.78	0.61	1	PASS
	Occupied Bandwidth	Mid Ch. 633334, 100MHz, CP-QPSK, AntF - Main	MHz	N/A	98.05	97.54	-	N/A	PASS
	EIRP	Low Ch. 630834, 25MHz, BPSK, AntF - Main	dBm	30	24.16	23.74	-0.42	3	PASS
	RSE	Mid Ch. 633334, 100MHz, BPSK, AntF - Main	dBm	-13	-56.49	-56.34	0.15	3	PASS

Table 9-7. Summary of Spot-checks NR Band n77 DoD Band

FCC Rules	Test Item	Test Case	Units	Limit	Reference Model: SM-F966U	Variant Model: SM-F966B	Deviation (dB)	Max Deviation (dB)	Pass/Fail
27	Conducted Output Power	Mid Ch. 656000, 100MHz, BPSK, AntF - Main	dBm	N/A	26.20	26.28	0.08	1	PASS
	Occupied Bandwidth	Mid Ch. 656000, 100MHz, CP-QPSK, AntF - Main	MHz	N/A	98.05	97.45	-	N/A	PASS
	EIRP	Low Ch. 650000, 100MHz, BPSK, AntF - Main	dBm	30	26.56	26.12	-0.44	3	PASS
	RSE	Mid Ch. 656000, 100MHz, BPSK, AntF - Main	dBm	-13	-53.19	-54.65	-1.46	3	PASS

Table 9-8. Summary of Spot-checks NR Band n77 C- Band

FCC ID: A3LSMF966B	PART 27 MEASUREMENT REPORT							Approved by: Technical Manager
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