

Plot 7-373. PAR Plot (NR Band n77 C-Band- 100MHz CP-OFDM 256-QAM - Full RB – UL MIMO Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 256 of 287

7.6 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

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Test Setup

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

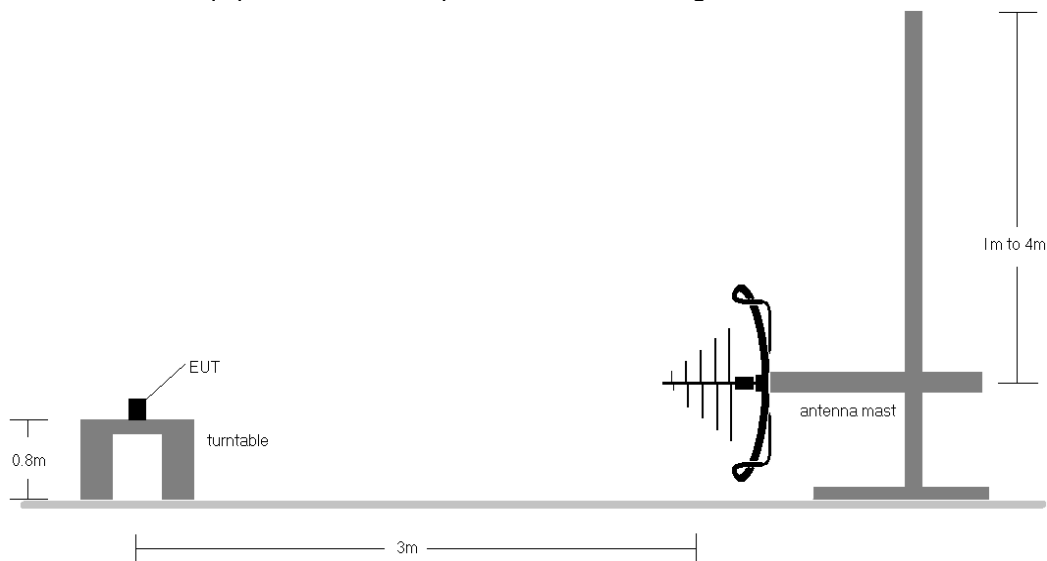


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

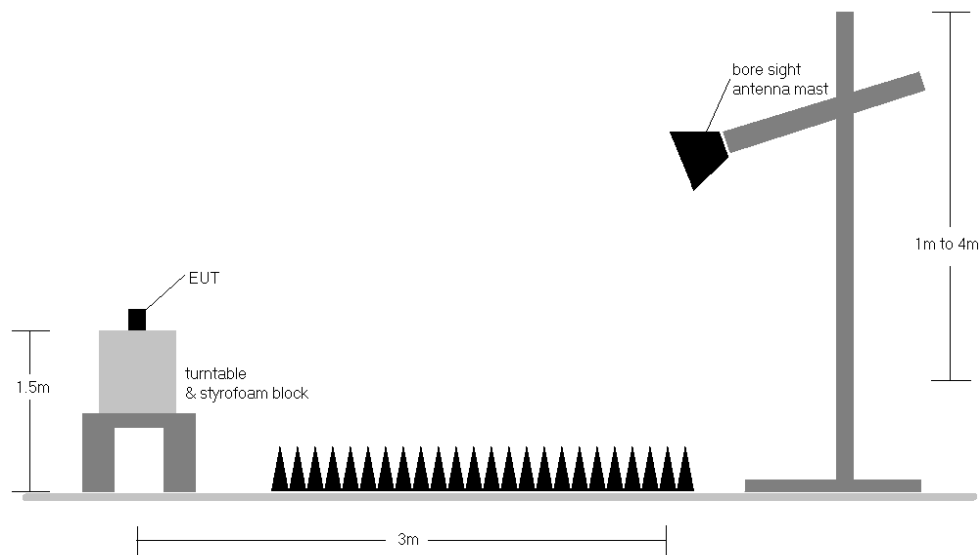


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

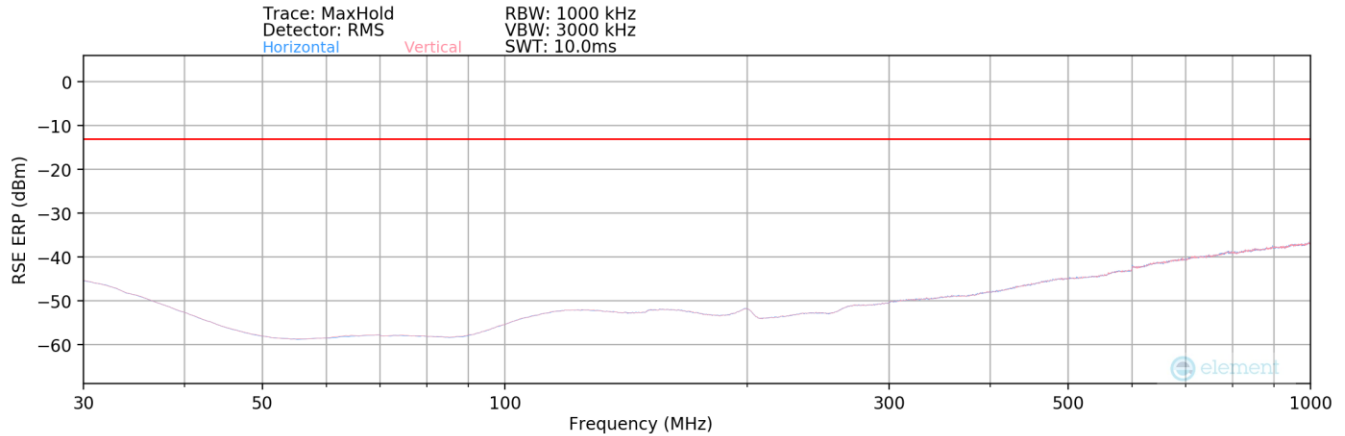
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

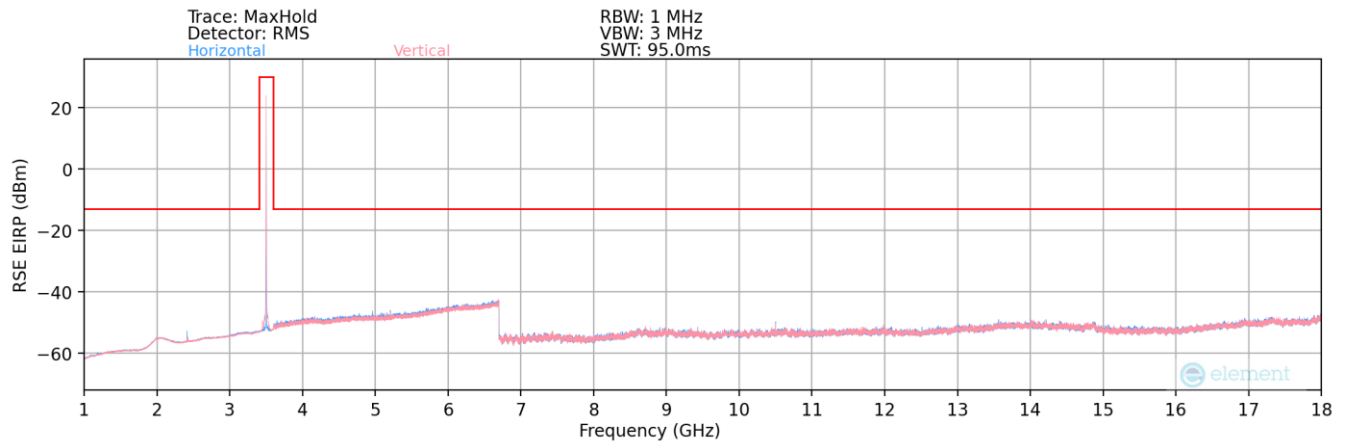
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; 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 using a power supply.
- 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) 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.
- 8) 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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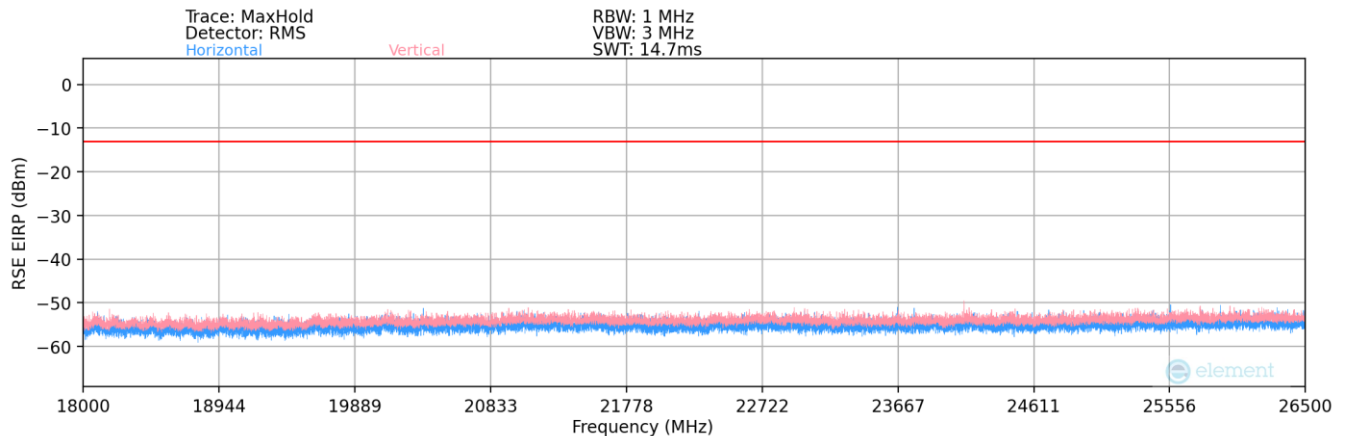
NR Band n77 (DoD Band) – Ant6



Plot 7-374. Radiated Spurious Plot Below 1GHz (NR Band n77 (DoD) – Ant6)

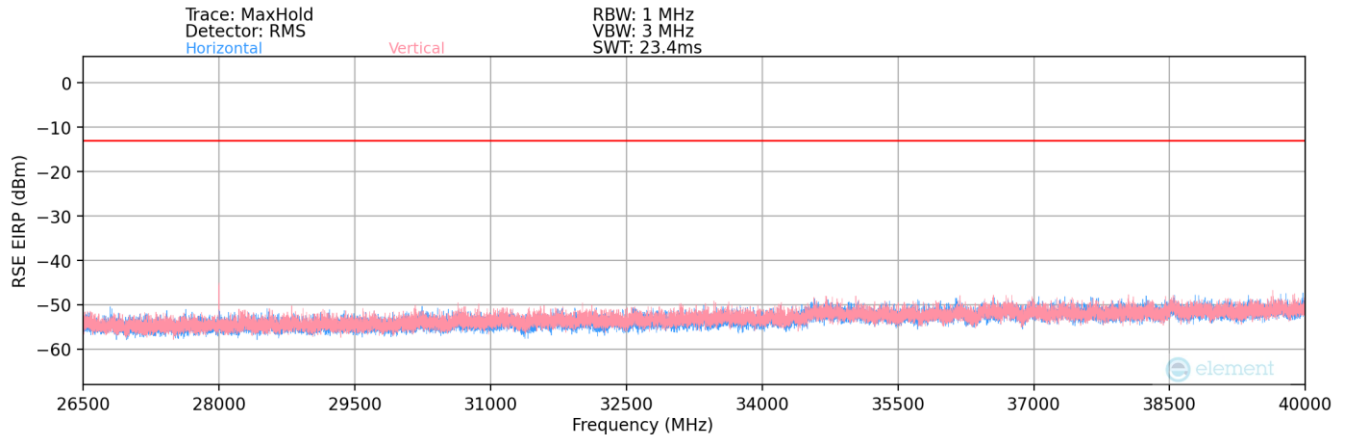


Plot 7-375. Radiated Spurious Plot 1-18GHz (NR Band n77 (DoD) – Ant6)



Plot 7-376. Radiated Spurious Plot 18-26.5GHz (NR Band n77 (DoD) – Ant6)

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Plot 7-377. Radiated Spurious Plot 26.5-40GHz (NR Band n77 (DoD) – Ant6)

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

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]
298.00	H	-	-	-85.83	21.11	42.28	-55.13	-13.00	-42.13

Table 7-42. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant6)

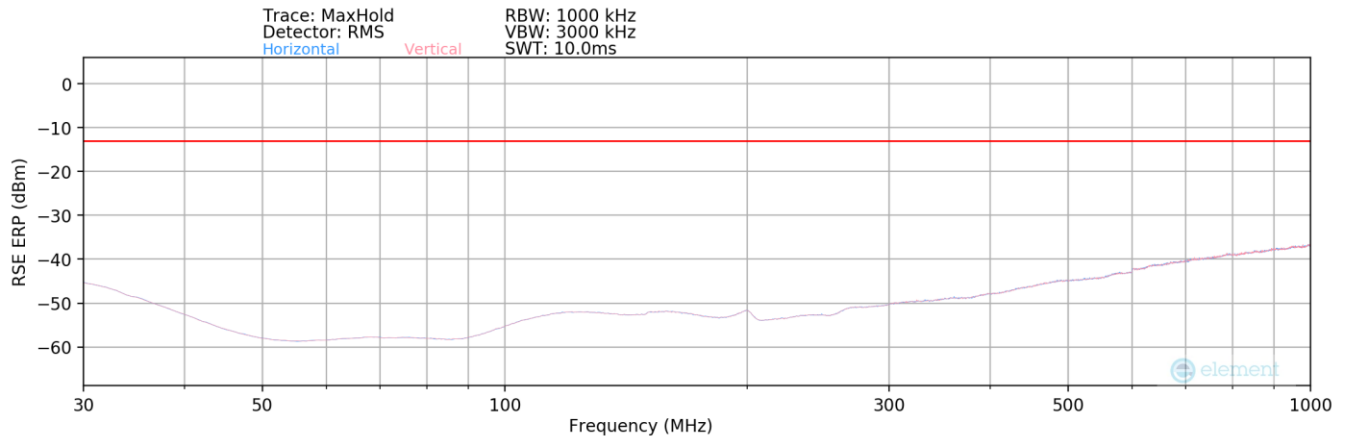
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone

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	280	286	-72.64	8.93	43.29	-51.97	-13.00	-38.97
10500.03	H	360	244	-66.85	12.76	52.91	-42.35	-13.00	-29.35
14000.04	H	-	-	-79.95	15.88	42.93	-52.33	-13.00	-39.33
17500.05	H	-	-	-80.28	17.05	43.77	-51.49	-13.00	-38.49
21000.06	H	-	-	-54.23	3.25	56.02	-48.78	-13.00	-35.78

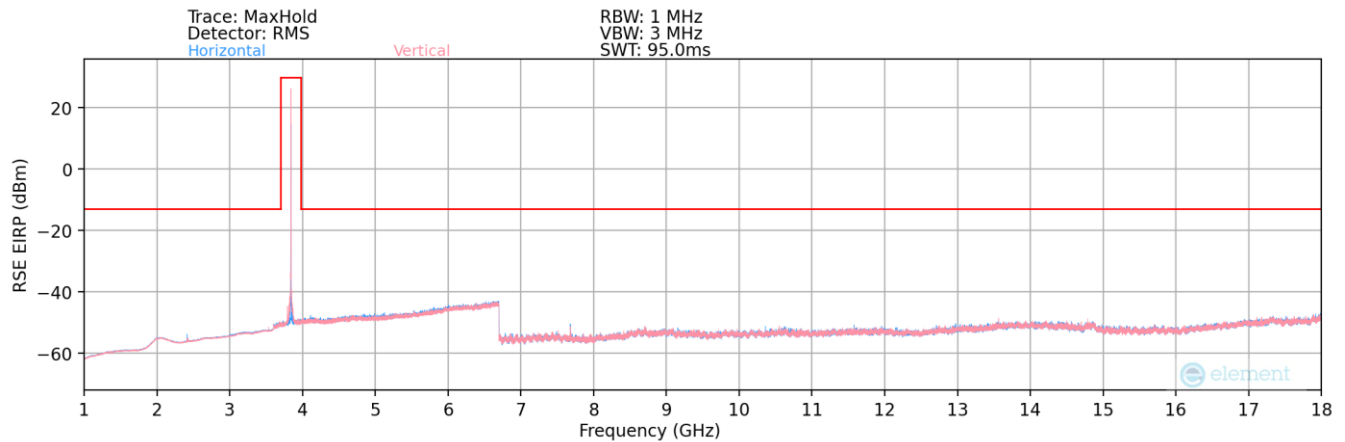
Table 7-43. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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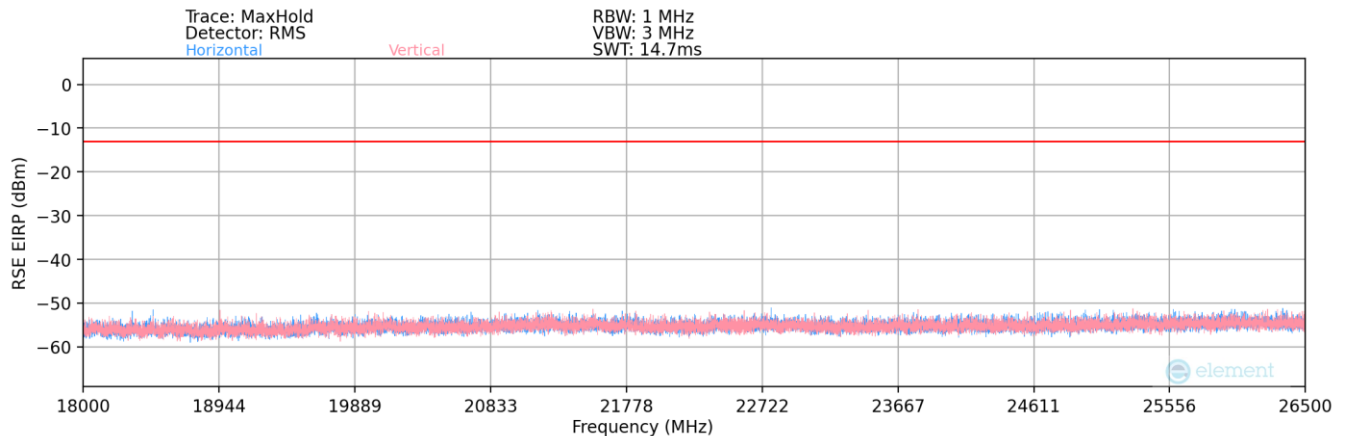
NR Band n77 C-Band – Ant6



Plot 7-378. Radiated Spurious Plot Below 1GHz (NR Band n77 C-Band – Ant6)

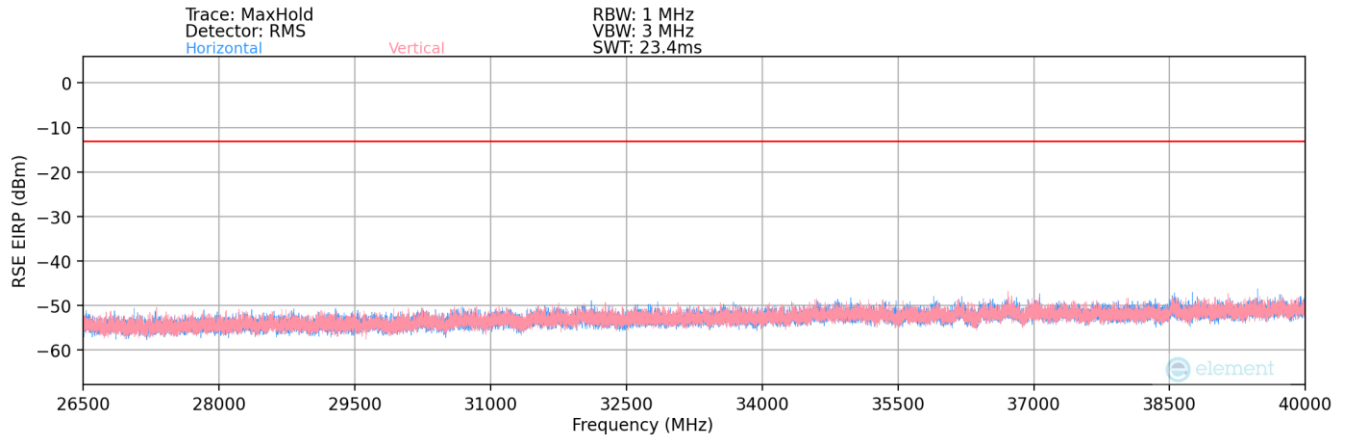


Plot 7-379. Radiated Spurious Plot 1-18GHz (NR Band n77 C-Band – Ant6)



Plot 7-380. Radiated Spurious Plot 18-26.5GHz (NR Band n77 C-Band – Ant6)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-381. Radiated Spurious Plot 26.5-40GHz (NR Band n77 C-Band – Ant6)

Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1/136
Mode:	Stand Alone
Anchor Band:	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]
386.00	H	-	-	-85.90	23.08	44.18	-53.22	-13.00	-40.22

Table 7-44. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant6)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone

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	274	117	-64.84	9.84	52.00	-43.26	-13.00	-30.26
11250.00	H	-	-	-79.12	12.56	40.44	-54.82	-13.00	-41.82
15000.00	H	-	-	-80.22	14.31	41.09	-54.17	-13.00	-41.17
18750.00	H	-	-	-53.12	1.33	55.21	-49.59	-13.00	-36.59

Table 7-45. Radiated Spurious Data (NR Band n77 C-Band – Low Channel – Ant6)

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

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	242	131	-71.22	8.96	44.74	-50.52	-13.00	-37.52
11520.00	H	287	51	-76.69	13.06	43.37	-51.88	-13.00	-38.88
15360.00	H	-	-	-79.57	14.26	41.69	-53.57	-13.00	-40.57
19200.00	H	-	-	-53.51	1.65	55.14	-49.66	-13.00	-36.66
23040.00	H	-	-	-52.67	3.66	57.99	-46.81	-13.00	-33.81

Table 7-46. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant6)

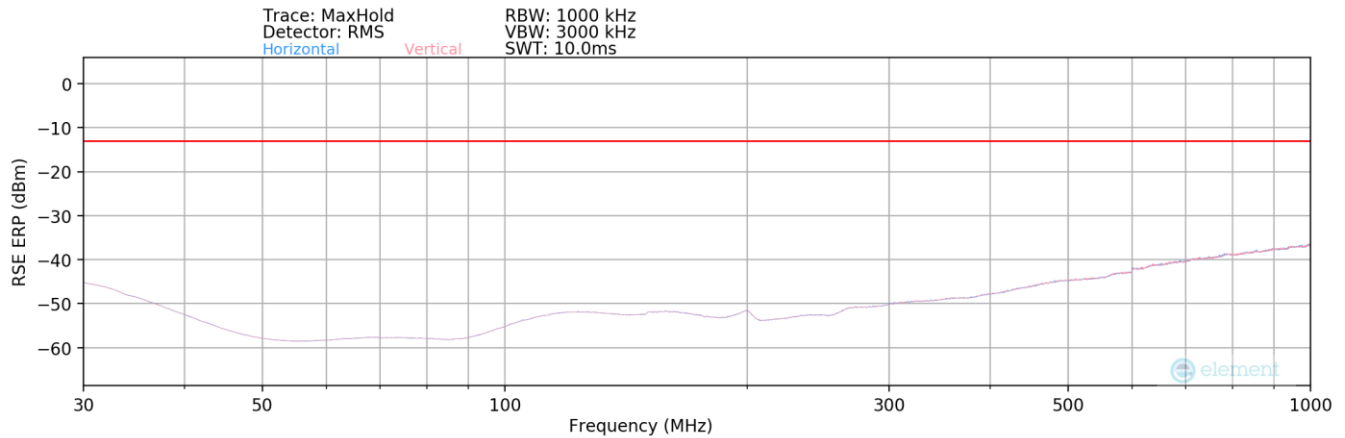
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone

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	273	128	-65.00	9.53	51.53	-43.73	-13.00	-30.73
11790.00	H	-	-	-79.37	13.28	40.91	-54.35	-13.00	-41.35
15720.00	H	-	-	-79.88	14.94	42.06	-53.20	-13.00	-40.20
19650.00	H	-	-	-52.90	2.11	56.21	-48.59	-13.00	-35.59

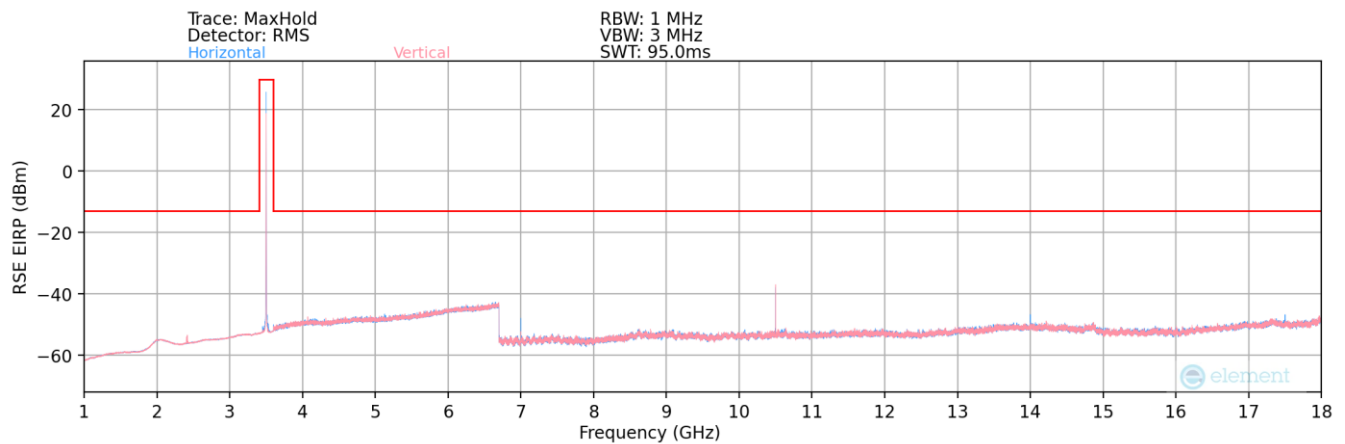
Table 7-47. Radiated Spurious Data (NR Band n77 C-Band – High Channel – Ant6)

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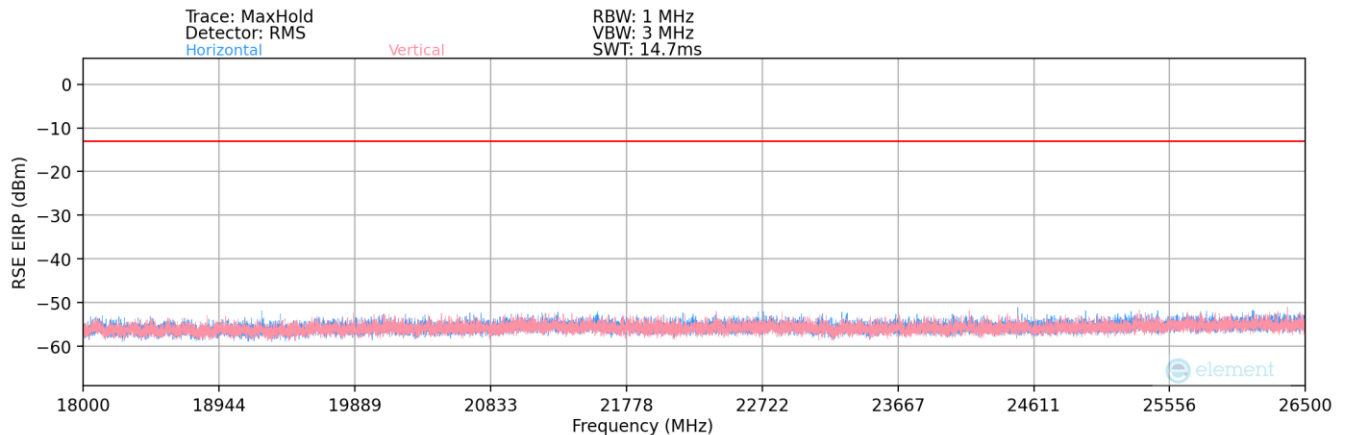
NR Band n77 (DoD Band) – Ant1



Plot 7-382. Radiated Spurious Plot Below 1GHz (NR Band n77 (DoD) – Ant1)

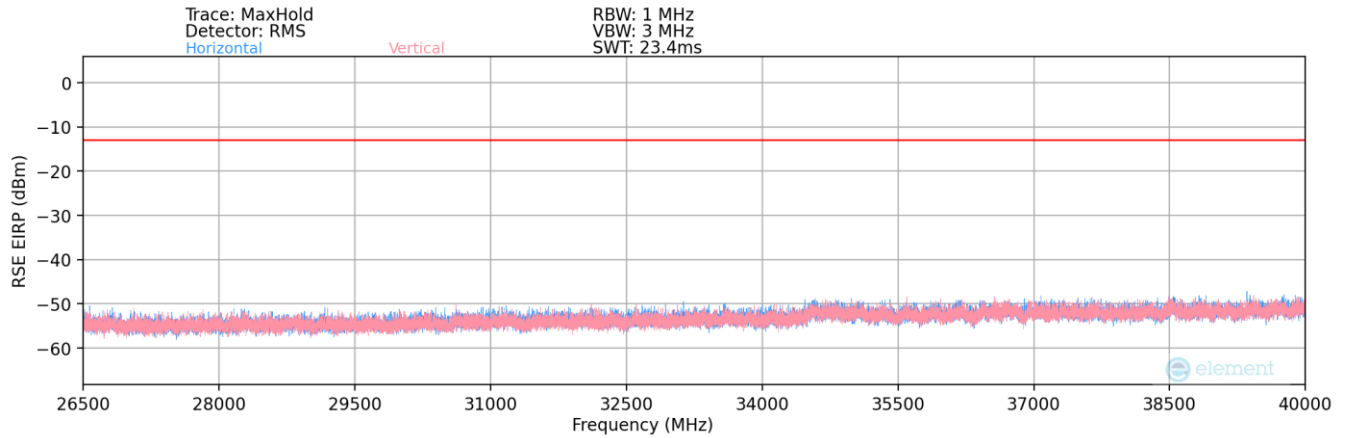


Plot 7-383. Radiated Spurious Plot 1-18GHz (NR Band n77 (DoD) – Ant1)



Plot 7-384. Radiated Spurious Plot 18-26.5GHz (NR Band n77 (DoD) – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-385. Radiated Spurious Plot 26.5-40GHz (NR Band n77 (DoD) – Ant1)

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

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]
612.00	H	-	-	-86.74	27.12	47.38	-50.03	-13.00	-37.03

Table 7-48. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant1)

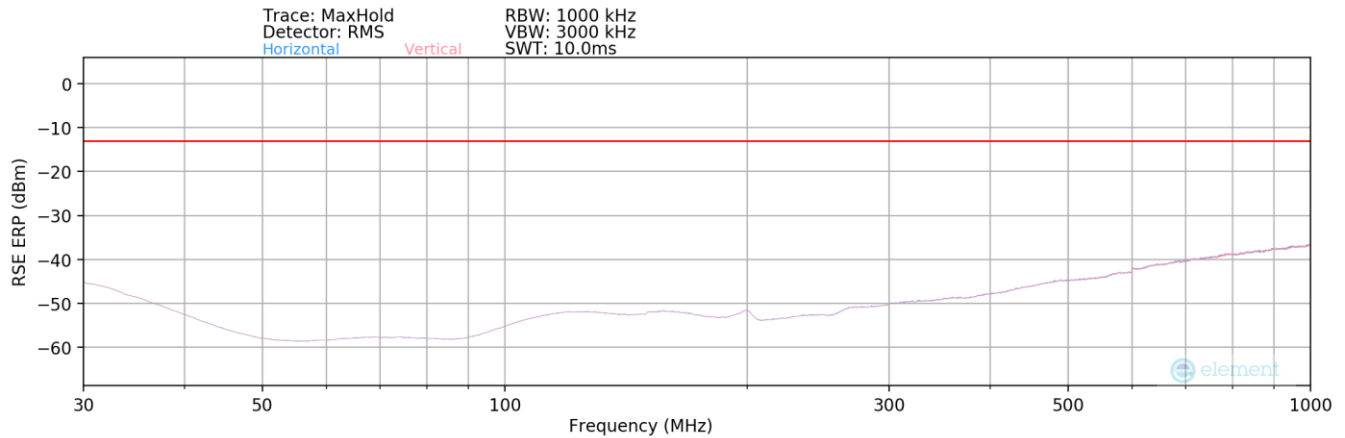
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone

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	260	206	-68.17	8.93	47.76	-47.50	-13.00	-34.50
10500.03	V	200	208	-60.22	12.76	59.54	-35.72	-13.00	-22.72
14000.04	H	228	230	-71.86	15.88	51.02	-44.24	-13.00	-31.24
17500.05	H	301	216	-73.31	17.05	50.74	-44.52	-13.00	-31.52
21000.06	H	-	-	-54.28	3.25	55.97	-48.83	-13.00	-35.83
24500.07	H	150	173	-50.61	3.71	60.10	-44.70	-13.00	-31.70
28000.08	H	-	-	-53.23	4.52	58.29	-46.51	-13.00	-33.51
31500.09	H	-	-	-54.05	6.56	59.51	-45.29	-13.00	-32.29
35000.10	H	-	-	-54.42	7.98	60.56	-44.24	-13.00	-31.24

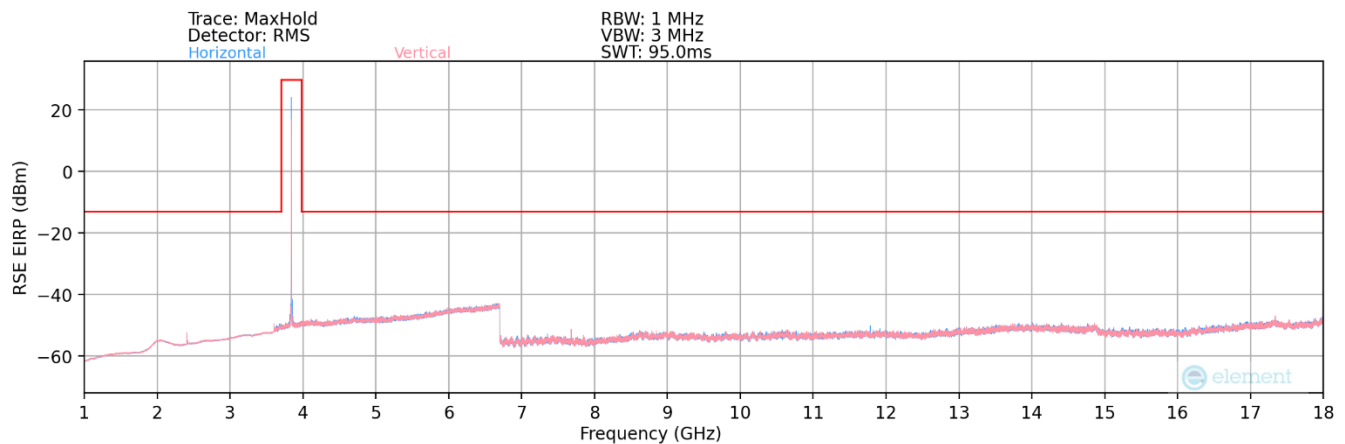
Table 7-49. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant1)

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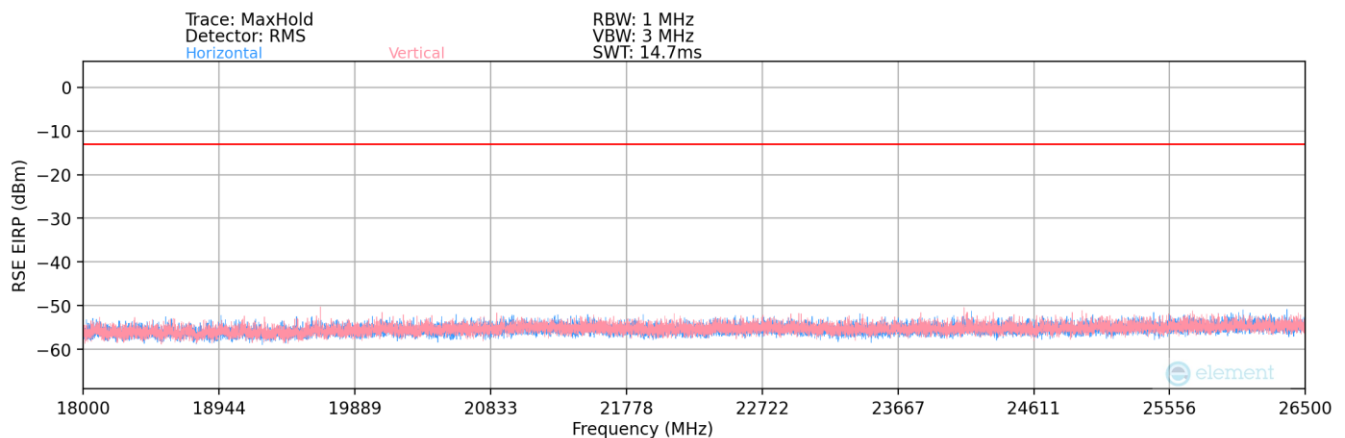
NR Band n77 C-Band – Ant1



Plot 7-386. Radiated Spurious Plot Below 1GHz (NR Band n77 C-Band – Ant1)

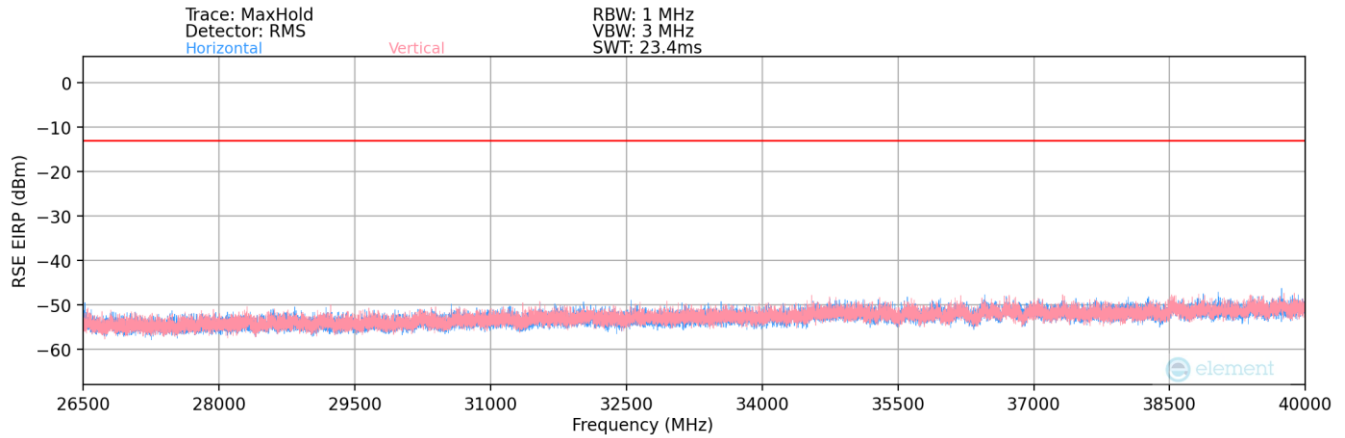


Plot 7-387. Radiated Spurious Plot 1-18GHz (NR Band n77 C-Band – Ant1)



Plot 7-388. Radiated Spurious Plot 18-26.5GHz (NR Band n77 C-Band – Ant1)

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Plot 7-389. Radiated Spurious Plot 26.5-40GHz (NR Band n77 C-Band – Ant1)

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

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]
492.00	V	-	-	-85.09	25.75	47.66	-49.75	-13.00	-36.75

Table 7-50. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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	169	273	-69.92	9.84	46.92	-48.34	-13.00	-35.34
11250.00	V	292	196	-71.74	12.56	47.82	-47.44	-13.00	-34.44
15000.00	V	-	-	-79.76	14.31	41.55	-53.71	-13.00	-40.71
18750.00	V	150	100	-48.89	1.33	59.44	-45.36	-13.00	-32.36
22500.00	V	-	-	-54.06	3.69	56.63	-48.17	-13.00	-35.17
26250.00	V	-	-	-53.80	3.94	57.14	-47.66	-13.00	-34.66
30000.00	V	-	-	-54.77	5.78	58.01	-46.79	-13.00	-33.79

Table 7-51. Radiated Spurious Data (NR Band n77 C-Band – Low Channel – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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	173	171	-69.44	8.96	46.52	-48.74	-13.00	-35.74
11520.00	V	-	-	-79.42	13.06	40.64	-54.61	-13.00	-41.61
15360.00	V	-	-	-79.73	14.26	41.53	-53.73	-13.00	-40.73
19200.00	V	150	88	-51.49	1.65	57.15	-47.65	-13.00	-34.65
23040.00	V	-	-	-52.38	3.66	58.28	-46.52	-13.00	-33.52
26880.00	V	-	-	-54.18	4.14	56.96	-47.84	-13.00	-34.84
30720.00	V	-	-	-53.57	5.99	59.42	-45.38	-13.00	-32.38

Table 7-52. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant1)

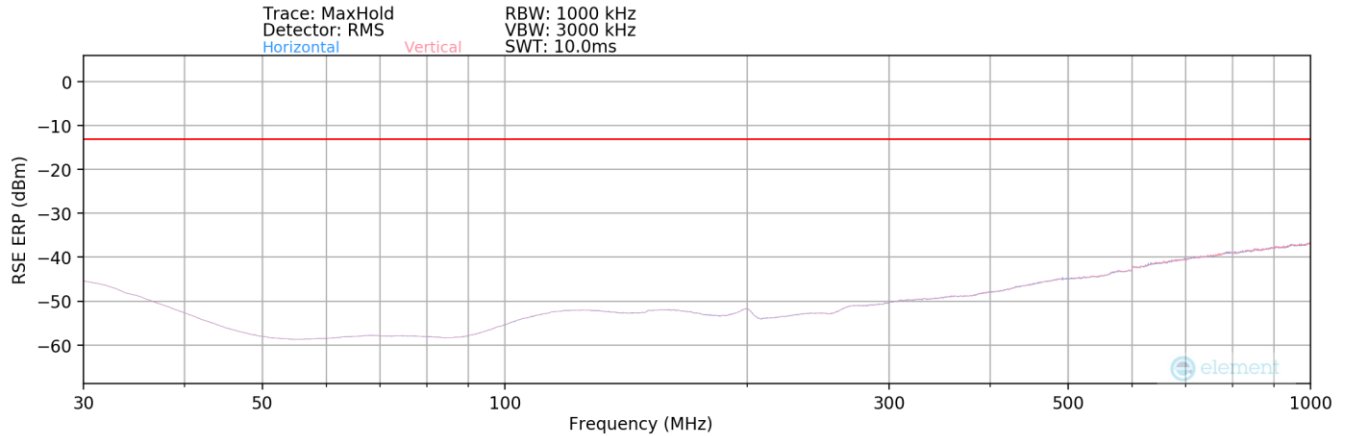
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1 / 136
Mode:	Stand Alone

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	145	209	-71.19	9.53	45.34	-49.92	-13.00	-36.92
11790.00	V	191	121	-77.57	13.28	42.71	-52.55	-13.00	-39.55
15720.00	V	146	200	-78.39	14.94	43.55	-51.71	-13.00	-38.71
19650.00	V	150	208	-50.41	2.11	58.70	-46.10	-13.00	-33.10
23580.00	V	-	-	-53.23	3.57	57.34	-47.46	-13.00	-34.46
27510.00	V	-	-	-53.22	3.91	57.69	-47.11	-13.00	-34.11
31440.00	V	-	-	-53.04	6.40	60.36	-44.44	-13.00	-31.44

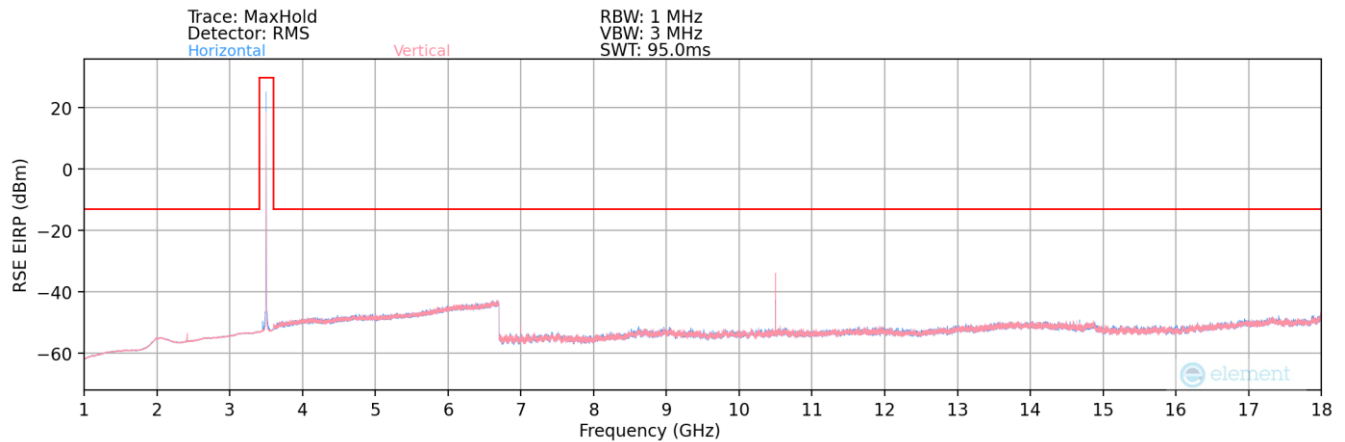
Table 7-53. Radiated Spurious Data (NR Band n77 C-Band – High Channel – Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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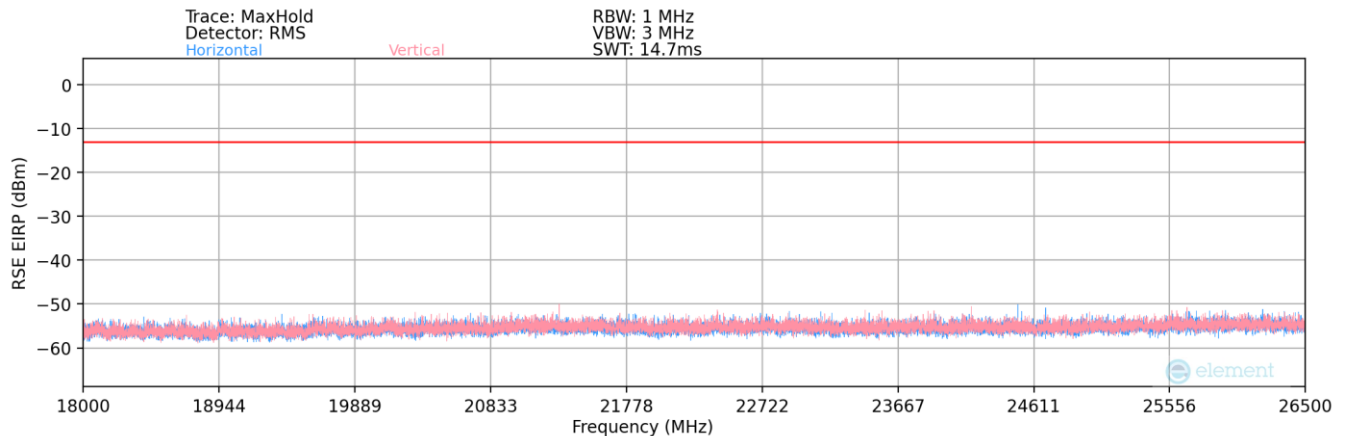
NR Band n77 (DoD Band) – SRS Ant3



Plot 7-390. Radiated Spurious Plot Below 1GHz (NR Band n77 (DoD) – Ant3)

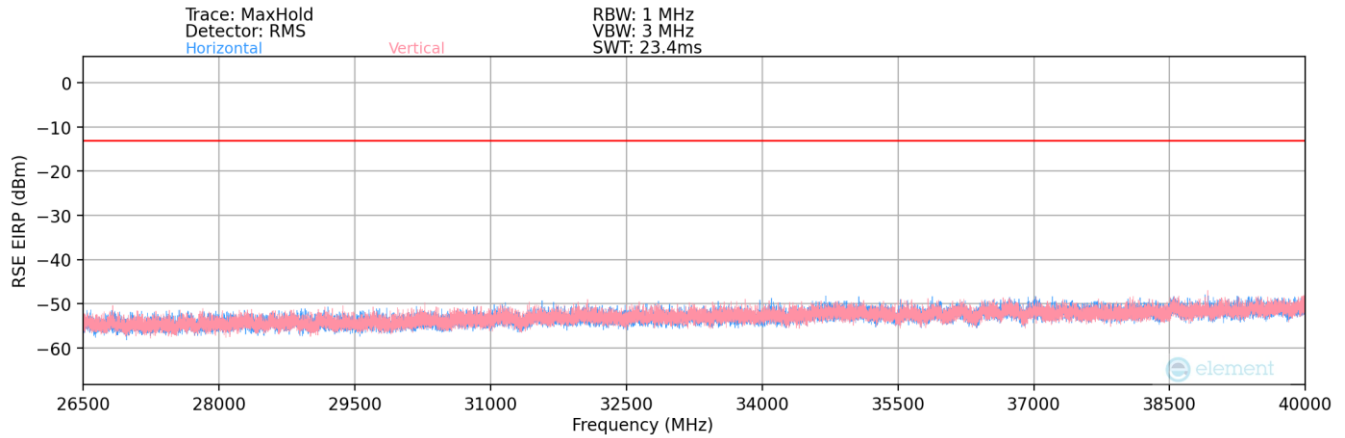


Plot 7-391. Radiated Spurious Plot 1-18GHz (NR Band n77 (DoD) – Ant3)



Plot 7-392. Radiated Spurious Plot 18-26.5GHz (NR Band n77 (DoD) – Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 270 of 287



Plot 7-393. Radiated Spurious Plot 26.5-40GHz (NR Band n77 (DoD) – Ant3)

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

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]
212.00	V	-	-	-86.41	17.75	38.34	-59.07	-13.00	-46.07

Table 7-54. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant3)

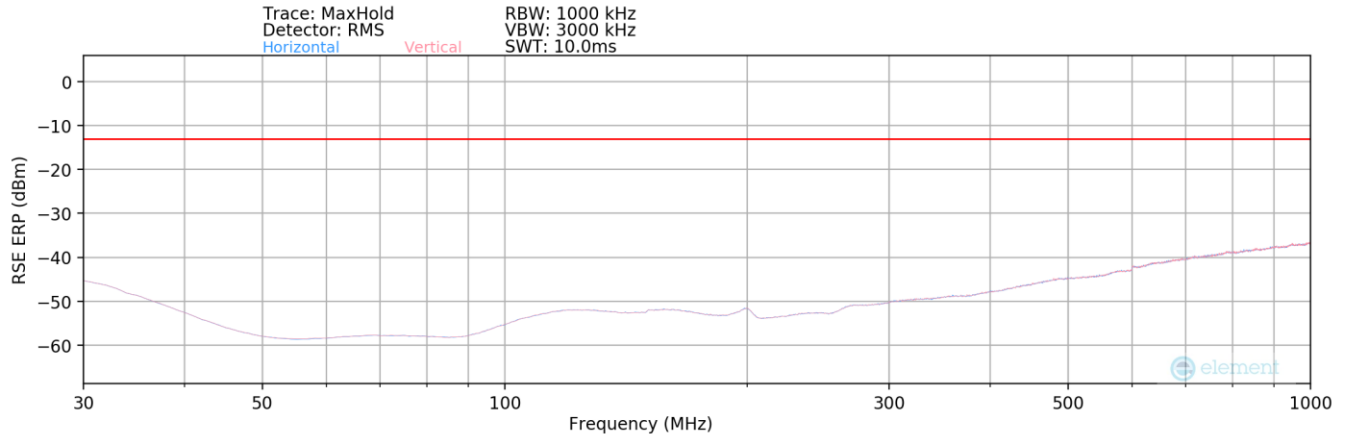
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136
Mode:	Stand Alone

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	179	164	-66.28	8.93	49.65	-45.61	-13.00	-32.61
10500.03	V	185	168	-59.57	12.76	60.19	-35.07	-13.00	-22.07
14000.04	V	-	-	-82.83	15.88	40.05	-55.21	-13.00	-42.21
17500.05	V	127	200	-79.47	17.05	44.58	-50.68	-13.00	-37.68
21000.06	V	-	-	-52.95	3.25	57.30	-47.50	-13.00	-34.50
24500.07	V	150	137	-50.05	3.71	60.65	-44.15	-13.00	-31.15
28000.08	V	150	156	-52.30	4.52	59.22	-45.58	-13.00	-32.58
31500.09	V	-	-	-54.15	6.56	59.41	-45.39	-13.00	-32.39
35000.10	V	-	-	-54.27	7.98	60.71	-44.09	-13.00	-31.09

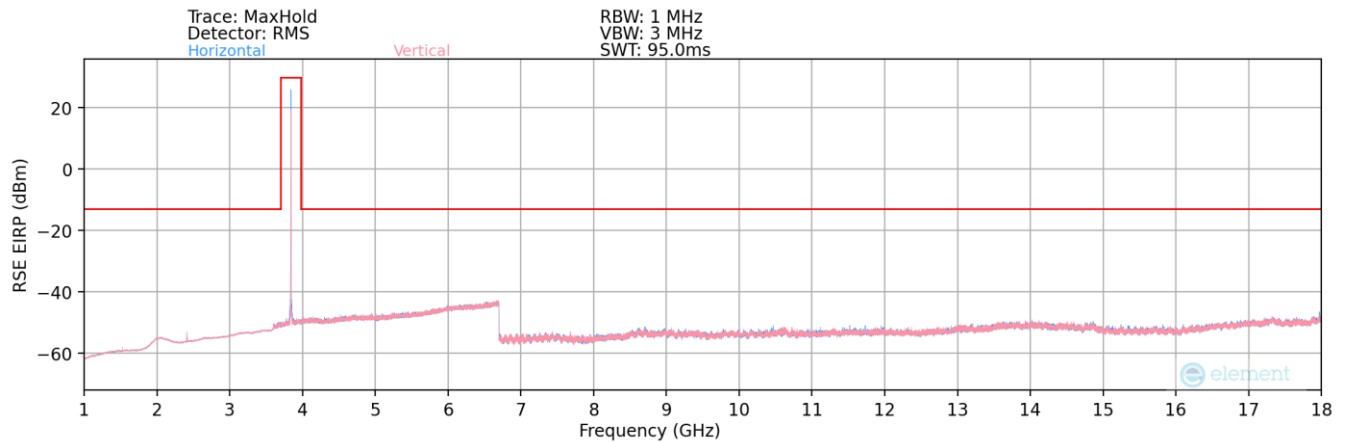
Table 7-55. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 271 of 287

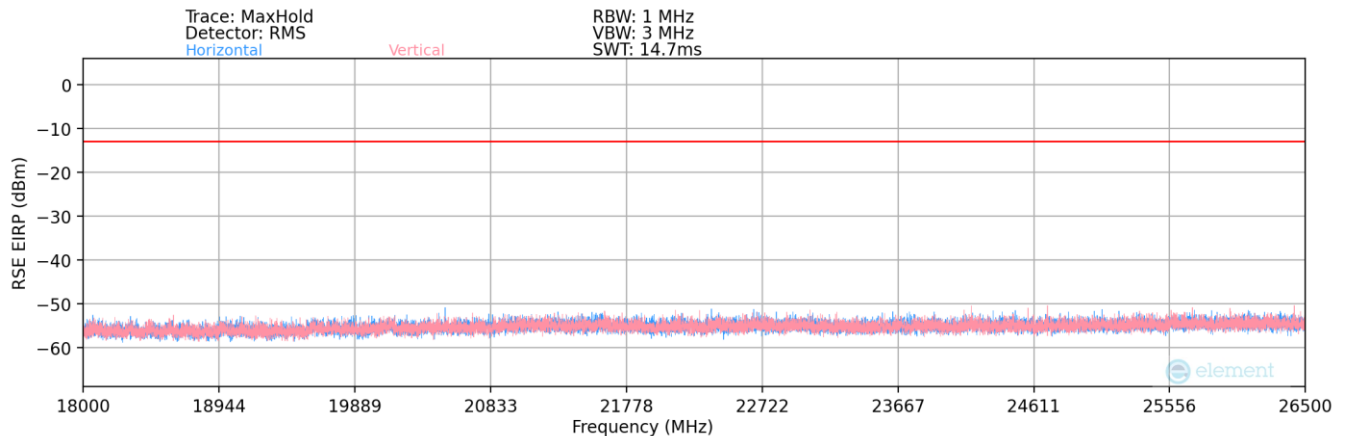
NR Band n77 C-Band – SRS Ant3



Plot 7-394. Radiated Spurious Plot Below 1GHz (NR Band n77 C-Band – Ant3)

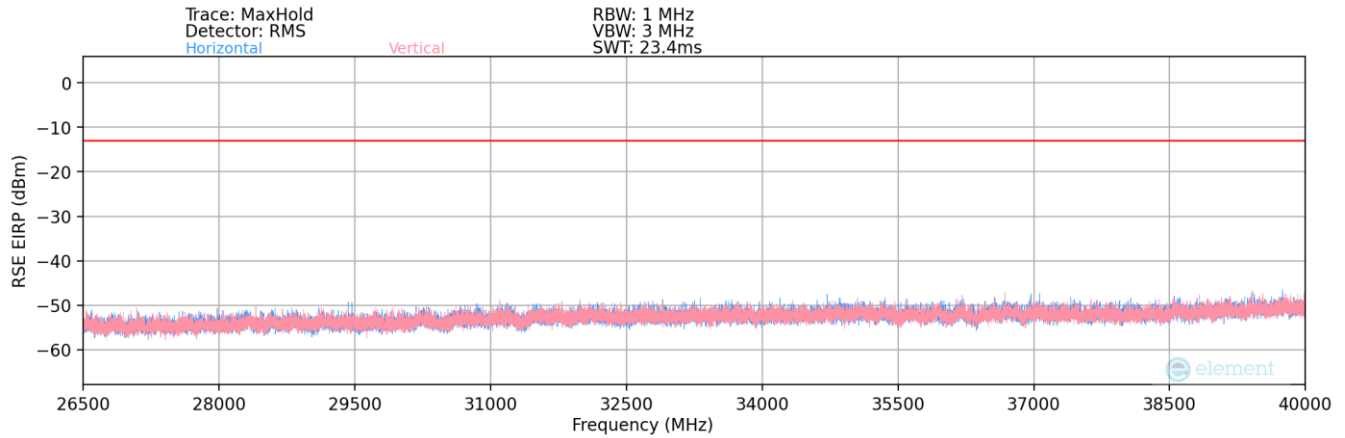


Plot 7-395. Radiated Spurious Plot 1-18GHz (NR Band n77 C-Band – Ant3)



Plot 7-396. Radiated Spurious Plot 18-26.5GHz (NR Band n77 C-Band – Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 272 of 287



Plot 7-397. Radiated Spurious Plot 26.5-40GHz (NR Band n77 C-Band – Ant3)

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

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]
124.00	H	-	-	-85.70	20.52	41.82	-55.59	-13.00	-42.59

Table 7-56. Radiated Spurious Data (NR Band n77 C-Band – Low Channel – Ant3)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone

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	256	168	-64.94	9.84	51.90	-43.36	-13.00	-30.36
11250.00	V	146	209	-73.61	12.56	45.95	-49.31	-13.00	-36.31
15000.00	V	-	-	-79.54	14.31	41.77	-53.49	-13.00	-40.49
18750.00	V	150	50	-51.17	1.33	57.16	-47.64	-13.00	-34.64
22500.00	V	150	221	-44.91	3.69	65.78	-39.02	-13.00	-26.02
26250.00	V	150	146	-50.13	3.94	60.81	-43.99	-13.00	-30.99
30000.00	V	-	-	-53.80	5.78	58.98	-45.82	-13.00	-32.82
33750.00	V	-	-	-53.28	5.78	59.50	-45.30	-13.00	-32.30
37500.00	V	-	-	-55.21	7.57	59.36	-45.44	-13.00	-32.44

Table 7-57. Radiated Spurious Data (NR Band n77 C-Band – Low Channel – Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 273 of 287

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

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	170	260	-73.30	8.96	42.66	-52.60	-13.00	-39.60
11520.00	H	155	148	-76.40	13.06	43.66	-51.59	-13.00	-38.59
15360.00	H	155	46	-78.41	14.26	42.85	-52.41	-13.00	-39.41
19200.00	H	-	-	-51.21	1.65	57.43	-47.37	-13.00	-34.37
23040.00	H	150	224	-52.46	3.66	58.20	-46.60	-13.00	-33.60
26880.00	H	-	-	-53.72	4.14	57.42	-47.38	-13.00	-34.38
30720.00	H	-	-	-54.17	5.99	58.82	-45.98	-13.00	-32.98
34560.00	H	-	-	-53.10	7.49	61.40	-43.40	-13.00	-30.40

Table 7-58. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant3)

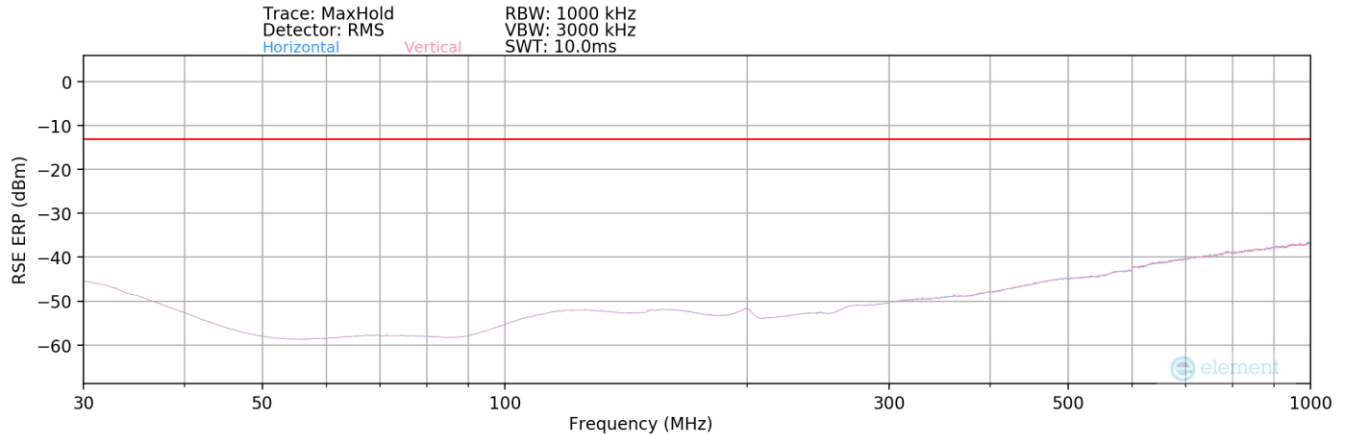
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone

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	158	176	-62.89	9.53	53.64	-41.62	-13.00	-28.62
11790.00	V	314	195	-75.81	13.28	44.47	-50.79	-13.00	-37.79
15720.00	V	-	-	-80.24	14.94	41.70	-53.56	-13.00	-40.56
19650.00	V	-	-	-52.04	2.11	57.07	-47.73	-13.00	-34.73
23580.00	V	150	201	-51.48	3.57	59.09	-45.71	-13.00	-32.71
27510.00	V	-	-	-52.72	3.91	58.19	-46.61	-13.00	-33.61
31440.00	V	-	-	-52.76	6.40	60.64	-44.16	-13.00	-31.16
35370.00	V	-	-	-54.72	8.39	60.67	-44.13	-13.00	-31.13

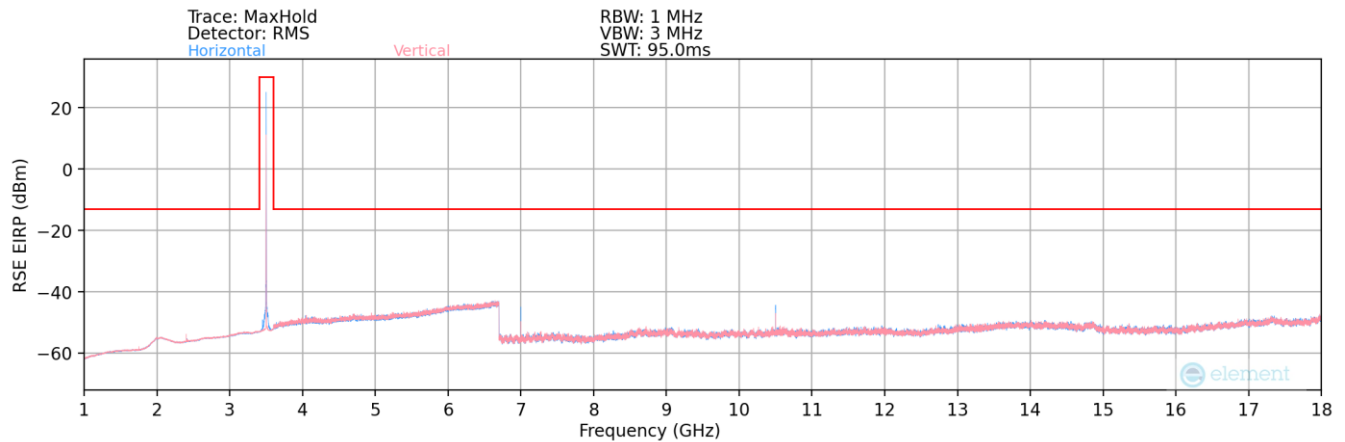
Table 7-59. Radiated Spurious Data (NR Band n77 C-Band – High Channel – Ant3)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 274 of 287

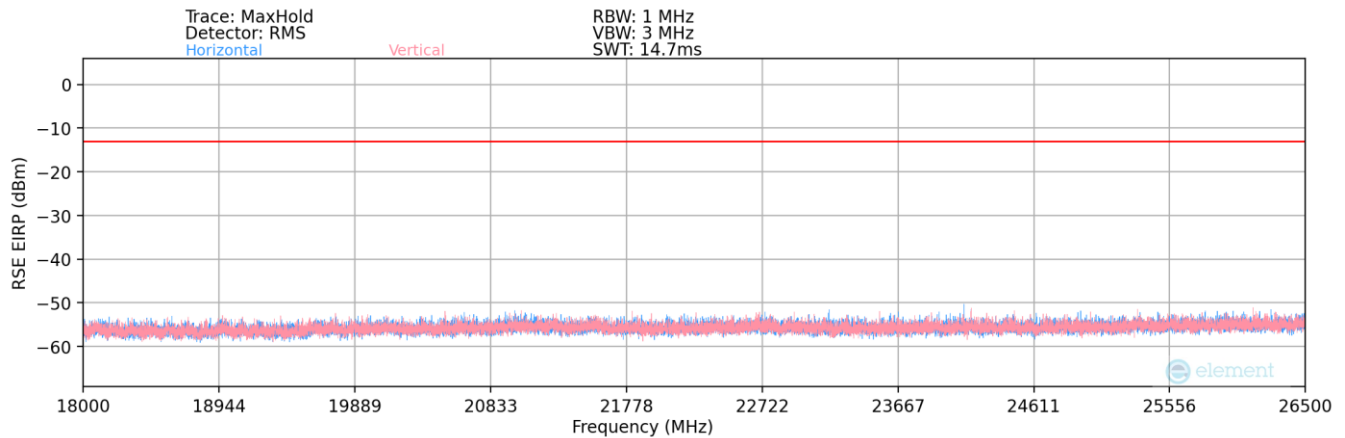
NR Band n77 (DoD Band) – SRS Ant4



Plot 7-398. Radiated Spurious Plot Below 1GHz (NR Band n77 (DoD) – Ant4)

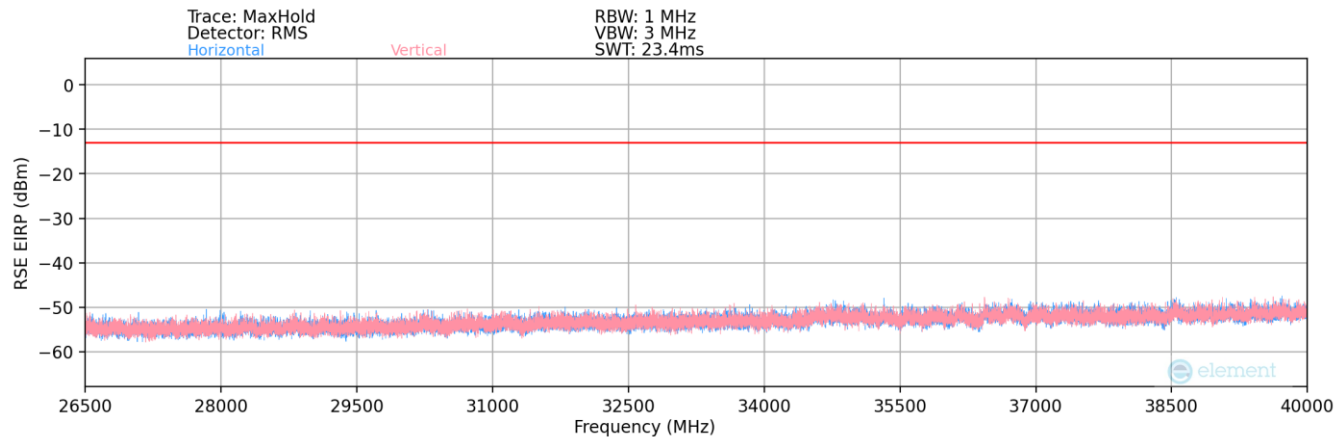


Plot 7-399. Radiated Spurious Plot 1-18GHz (NR Band n77 (DoD) – Ant4)



Plot 7-400. Radiated Spurious Plot 18-26.5GHz (NR Band n77 (DoD) – Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 275 of 287



Plot 7-401. Radiated Spurious Plot 26.5-40GHz (NR Band n77 (DoD) – Ant4)

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

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]
716.00	H	-	-	-86.65	29.18	49.53	-47.88	-13.00	-34.88

Table 7-60. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant4)

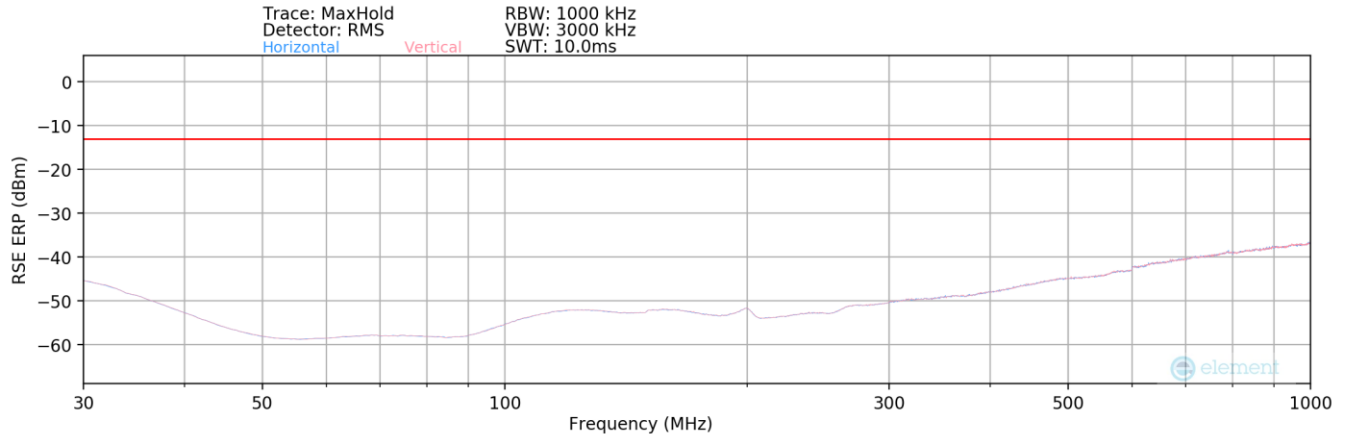
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1 / 136
Mode:	Stand Alone

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	185	148	-68.34	8.93	47.59	-47.67	-13.00	-34.67
10500.03	H	286	46	-59.11	12.76	60.65	-34.61	-13.00	-21.61
14000.04	H	374	60	-79.03	15.88	43.85	-51.41	-13.00	-38.41
17500.05	H	-	-	-80.22	17.05	43.83	-51.43	-13.00	-38.43
21000.06	H	-	-	-53.52	3.25	56.73	-48.07	-13.00	-35.07
24500.07	H	-	-	-52.94	3.71	57.77	-47.03	-13.00	-34.03

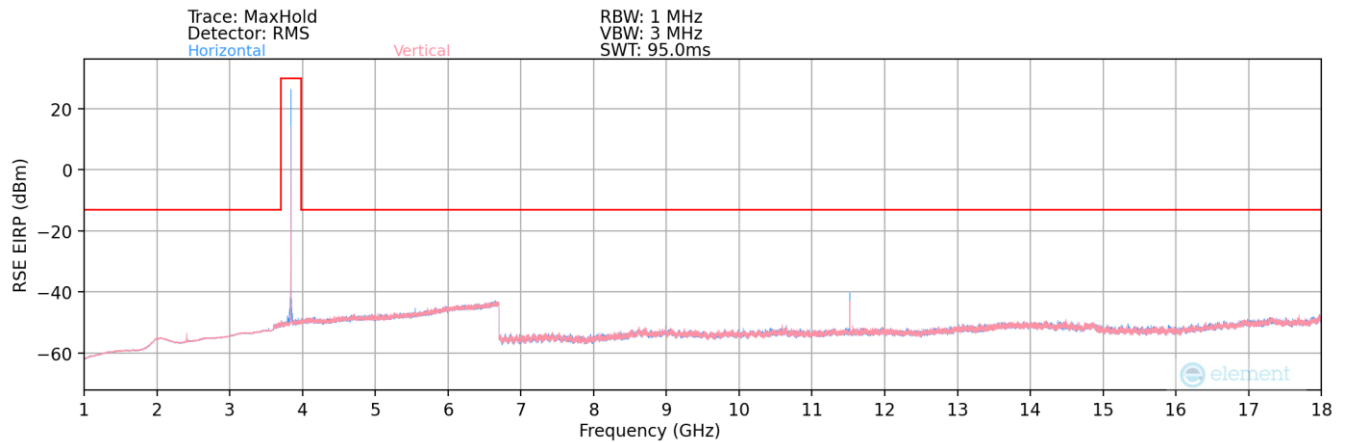
Table 7-61. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 276 of 287

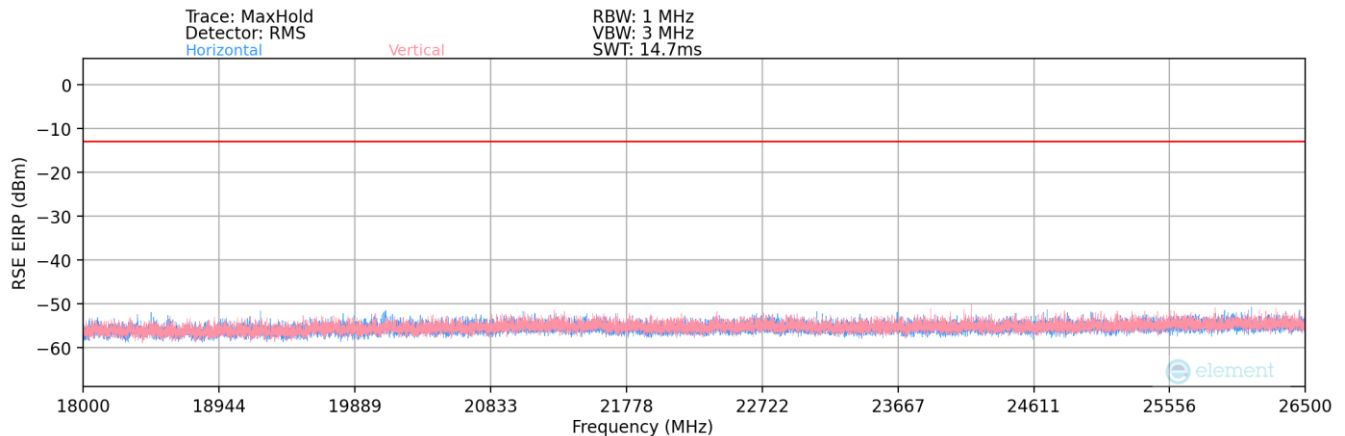
NR Band n77 C-Band – SRS Ant4



Plot 7-402. Radiated Spurious Plot Below 1GHz (NR Band n77 C-Band – Ant4)

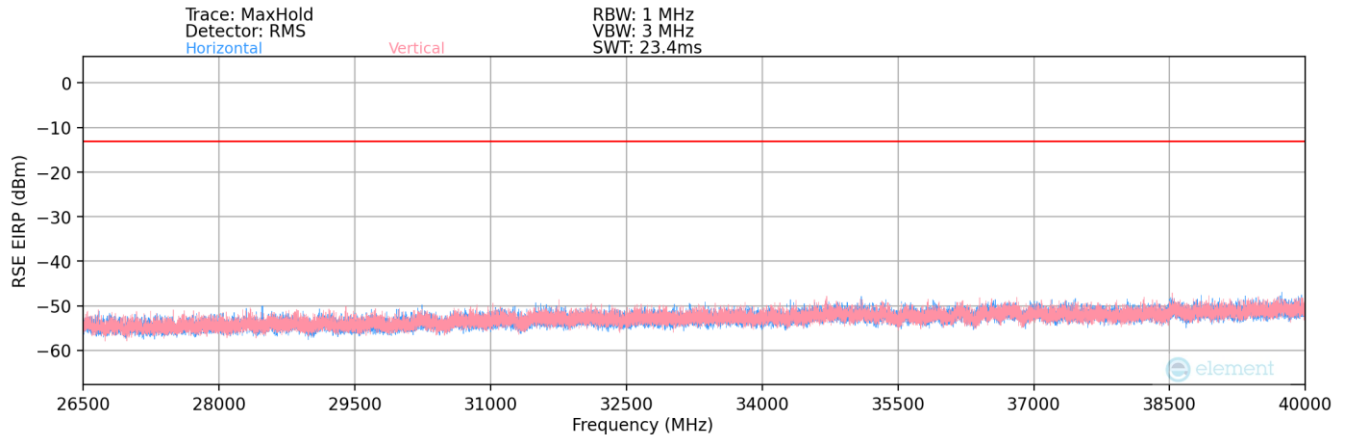


Plot 7-403. Radiated Spurious Plot 1-18GHz (NR Band n77 C-Band – Ant4)



Plot 7-404. Radiated Spurious Plot 18-26.5GHz (NR Band n77 C-Band – Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 277 of 287



Plot 7-405. Radiated Spurious Plot 26.5-40GHz (NR Band n77 C-Band – Ant4)

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

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]
668.00	H	-	-	-86.58	28.36	48.78	-48.63	-13.00	-35.63

Table 7-62. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone

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	160	92	-71.92	9.84	44.92	-50.34	-13.00	-37.34
11250.00	H	135	31	-65.45	12.56	54.11	-41.15	-13.00	-28.15
15000.00	H	-	-	-80.08	14.31	41.23	-54.03	-13.00	-41.03
18750.00	H	-	-	-52.02	1.33	56.31	-48.49	-13.00	-35.49
22500.00	H	150	273	-49.72	3.69	60.97	-43.83	-13.00	-30.83
26250.00	H	150	267	-49.21	3.94	61.73	-43.07	-13.00	-30.07
30000.00	H	-	-	-53.12	5.78	59.66	-45.14	-13.00	-32.14
33750.00	H	-	-	-53.74	7.57	60.83	-43.97	-13.00	-30.97
37500.00	H	-	-	-54.93	7.51	59.58	-45.22	-13.00	-32.22

Table 7-63. Radiated Spurious Data (NR Band n77 C-Band – Low Channel – Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 278 of 287

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

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	338	335	-75.60	8.96	40.36	-54.90	-13.00	-41.90
11520.00	H	148	364	-62.90	13.06	57.16	-38.09	-13.00	-25.09
15360.00	H	-	-	-79.26	14.26	42.00	-53.26	-13.00	-40.26
19200.00	H	-	-	-52.12	1.65	56.53	-48.27	-13.00	-35.27
23040.00	H	150	275	-51.37	3.66	59.29	-45.51	-13.00	-32.51
26880.00	H	-	-	-52.83	4.14	58.31	-46.49	-13.00	-33.49
30720.00	H	-	-	-54.11	5.99	58.88	-45.92	-13.00	-32.92
34560.00	H	-	-	-53.25	7.49	61.24	-43.56	-13.00	-30.56

Table 7-64. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – Ant4)

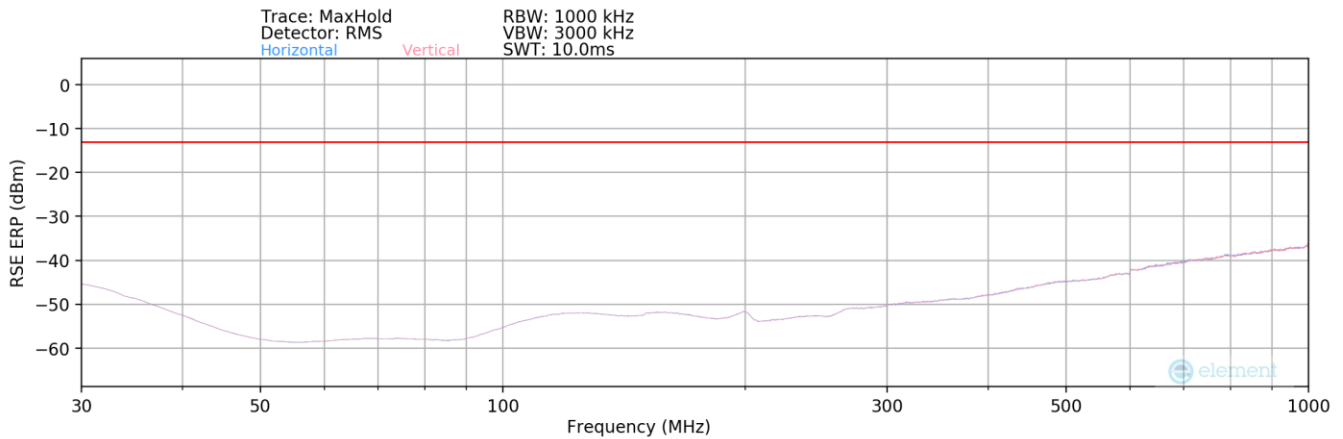
Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone

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	398	73	-72.87	9.53	43.66	-51.60	-13.00	-38.60
11790.00	H	160	14	-68.59	13.28	51.69	-43.57	-13.00	-30.57
15720.00	H	-	-	-80.26	14.94	41.68	-53.58	-13.00	-40.58
19650.00	H	-	-	-52.38	2.11	56.73	-48.07	-13.00	-35.07
23580.00	H	150	274	-50.64	3.57	59.93	-44.87	-13.00	-31.87
27510.00	H	150	292	-52.18	3.91	58.73	-46.07	-13.00	-33.07
31440.00	H	-	-	-53.32	6.40	60.08	-44.72	-13.00	-31.72
35370.00	H	-	-	-54.50	8.39	60.89	-43.91	-13.00	-30.91
39300.00	H	-	-	-56.28	9.97	60.69	-44.11	-13.00	-31.11

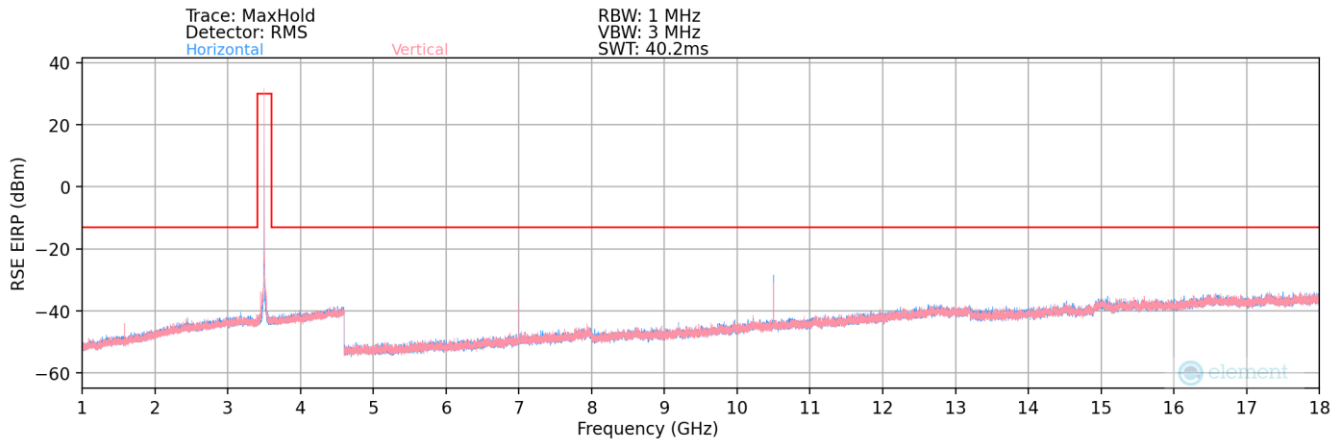
Table 7-65. Radiated Spurious Data (NR Band n77 C-Band – High Channel – Ant4)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 279 of 287

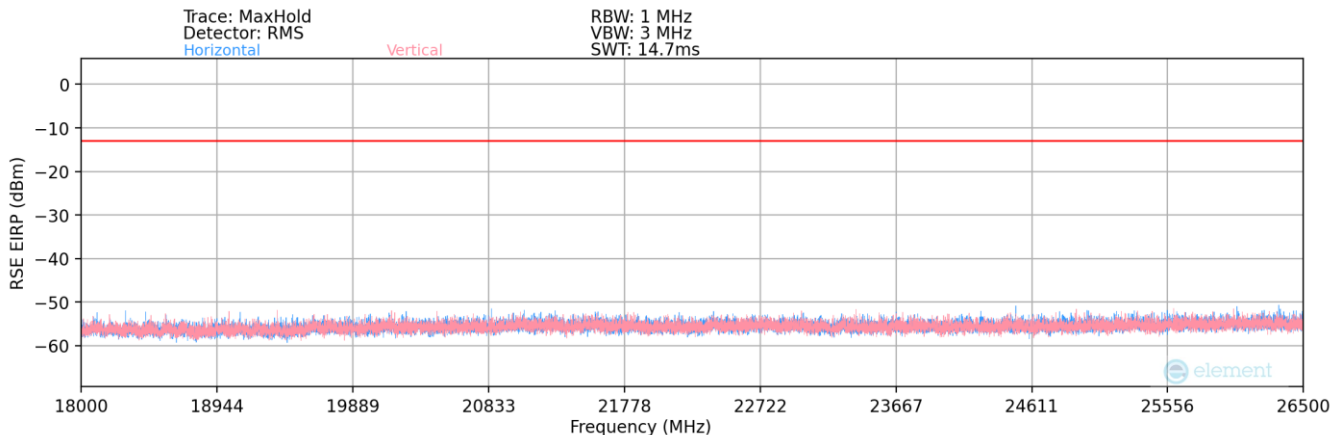
NR Band n77 DoD – UL MIMO Ant6 + Ant1



Plot 7-406. Radiated Spurious Plot Below 1GHz (NR Band n77 (DoD) – UL MIMO Ant6 + Ant1)

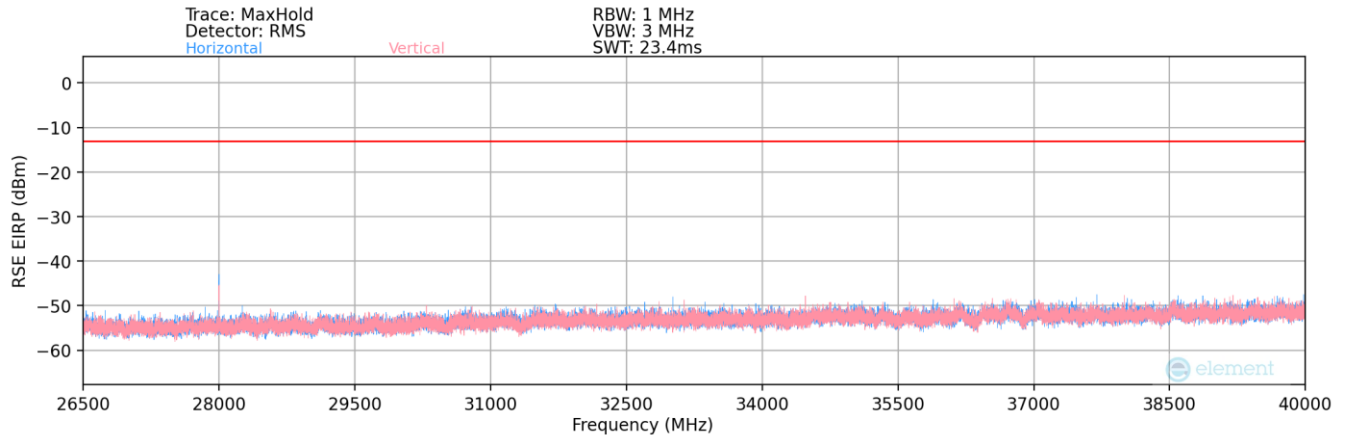


Plot 7-407. Radiated Spurious Plot 1-18GHz (NR Band n77 (DoD) – UL MIMO Ant6 + Ant1)



Plot 7-408. Radiated Spurious Plot 18-26.5GHz (NR Band n77 (DoD) – UL MIMO Ant6 + Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 280 of 287



Plot 7-409. Radiated Spurious Plot 26.5-40GHz (NR Band n77 (DoD) – UL MIMO Ant6 + Ant1)

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

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]
355.00	H	-	-	-85.54	22.28	43.74	-53.66	-13.00	-40.66

Table 7-66. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – UL MIMO Ant6 + Ant1)

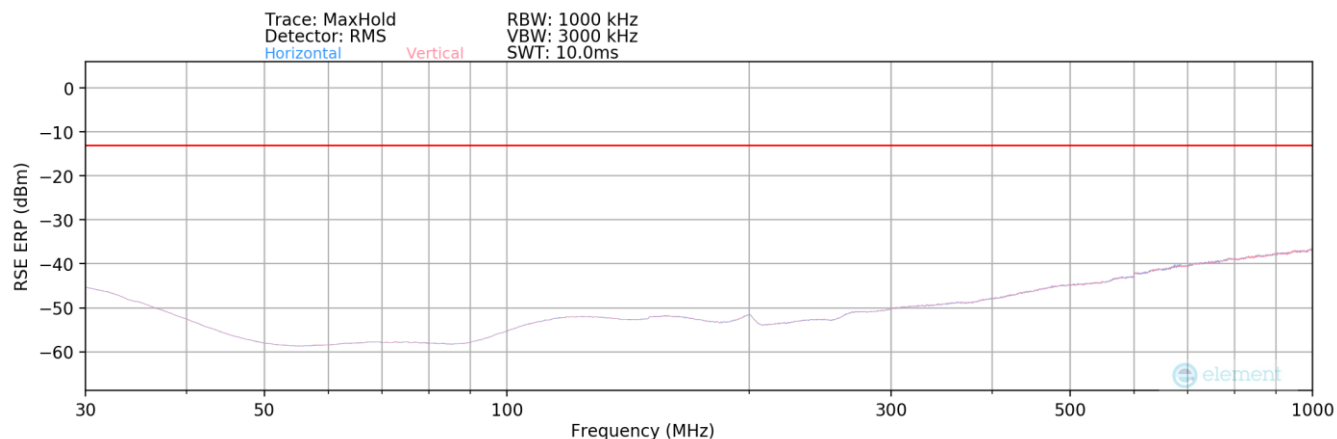
Bandwidth (MHz):	100
Frequency (MHz):	3500.01
RB / Offset:	1/136
Mode:	Stand Alone

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	318	200	-66.74	14.92	55.18	-40.08	-13.00	-27.08
10500.03	H	216	230	-54.14	20.02	72.88	-22.38	-13.00	-9.38
14000.04	V	-	-	-75.86	25.70	56.84	-38.42	-13.00	-25.42
17500.05	V	142	272	-80.77	29.40	55.63	-39.63	-13.00	-26.63
21000.06	V	-	-	-62.79	3.25	47.46	-57.34	-13.00	-44.34
24500.07	V	150	230	-58.42	3.71	52.29	-52.51	-13.00	-39.51
28000.08	V	150	99	-55.78	4.52	55.74	-49.06	-13.00	-36.06
31500.09	V	-	-	-63.61	6.56	49.94	-54.86	-13.00	-41.86
35000.10	V	-	-	-63.78	7.98	51.20	-53.60	-13.00	-40.60

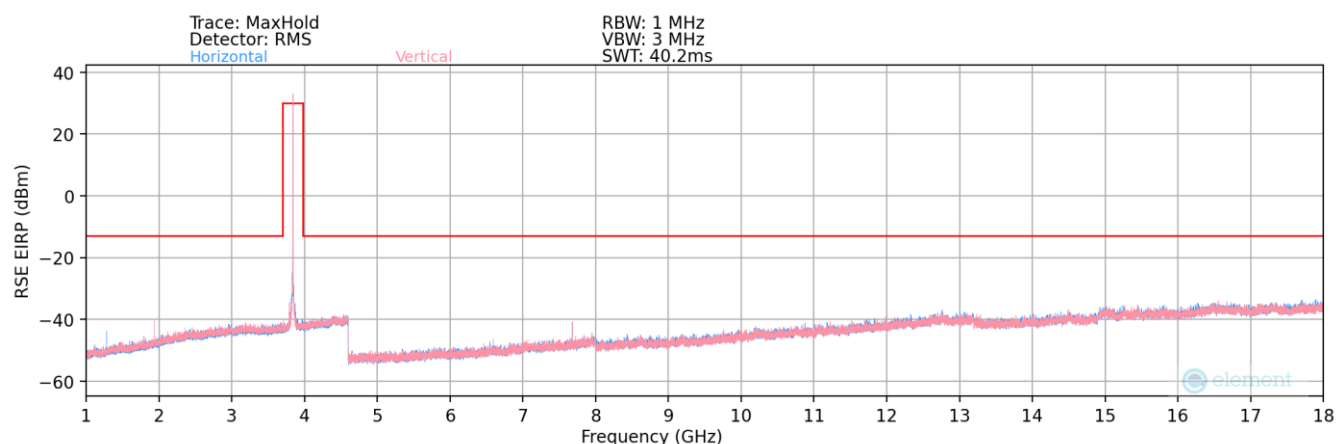
Table 7-67. Radiated Spurious Data (NR Band n77 (DoD) – Mid Channel – UL MIMO Ant6 + Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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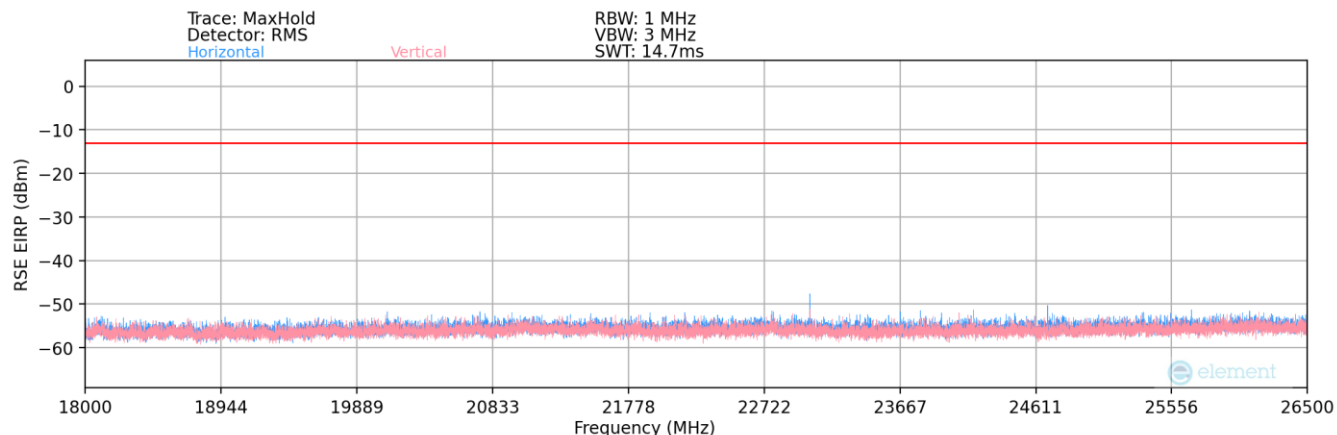
NR Band n77 C-Band – UL MIMO Ant6 + Ant1



Plot 7-410. Radiated Spurious Plot Below 1GHz (NR Band n77 C-Band – UL MIMO Ant6 + Ant1)

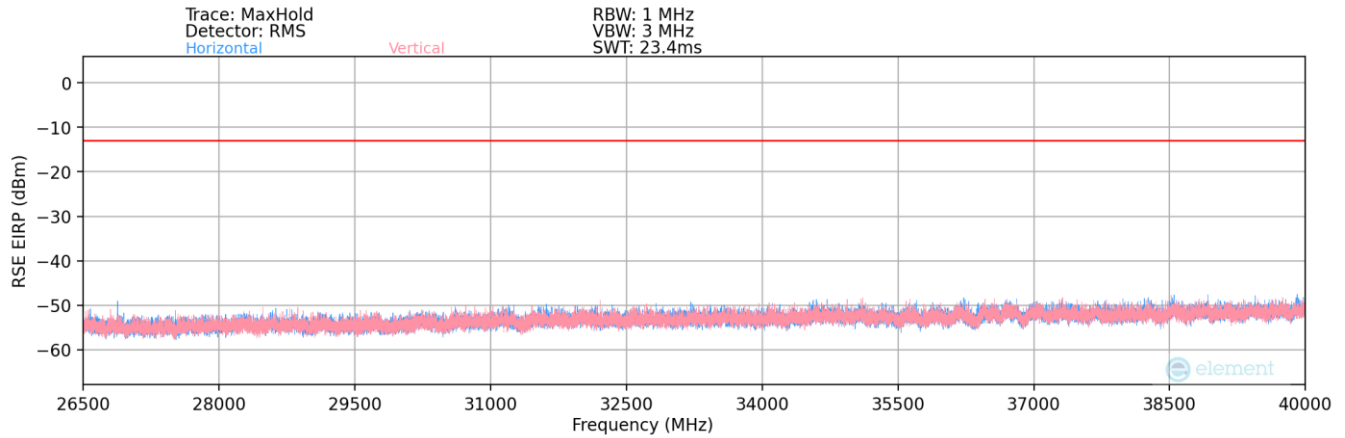


Plot 7-411. Radiated Spurious Plot 1-18GHz (NR Band n77 C-Band – UL MIMO Ant6 + Ant1)



Plot 7-412. Radiated Spurious Plot 18-26.5GHz (NR Band n77 C-Band – UL MIMO Ant6 + Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-413. Radiated Spurious Plot 26.5-40GHz (NR Band n77 C-Band – UL MIMO Ant6 + Ant1)

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

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]
541.00	V	-	-	-87.40	26.33	45.93	-51.47	-13.00	-38.47

Table 7-68. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – UL MIMO Ant6 + Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	3750.00
RB / Offset:	1/136
Mode:	Stand Alone

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	108	27	-72.65	16.06	50.41	-44.85	-13.00	-31.85
11250.00	V	104	130	-70.68	21.30	57.62	-37.64	-13.00	-24.64
15000.00	V	-	-	-74.20	26.18	58.98	-36.28	-13.00	-23.28
18750.00	V	150	14	-59.91	1.33	48.42	-56.38	-13.00	-43.38
22500.00	V	150	334	-57.26	3.69	53.43	-51.37	-13.00	-38.37
26250.00	V	150	90	-58.84	3.94	52.10	-52.70	-13.00	-39.70
30000.00	V	-	-	-63.54	5.78	49.23	-55.57	-13.00	-42.57
33750.00	V	-	-	-63.25	7.57	51.32	-53.48	-13.00	-40.48
37500.00	V	-	-	-64.13	7.51	50.38	-54.42	-13.00	-41.42

Table 7-69. Radiated Spurious Data (NR Band n77 C-Band – Low Channel – UL MIMO Ant6 + Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	3840.00
RB / Offset:	1/136
Mode:	Stand Alone

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	313	347	-70.20	16.04	52.84	-42.42	-13.00	-29.42
11520.00	V	116	251	-71.93	22.22	57.29	-37.97	-13.00	-24.97
15360.00	V	-	-	-75.47	27.26	58.79	-36.47	-13.00	-23.47
19200.00	V	150	292	-60.07	1.65	48.58	-56.22	-13.00	-43.22
23040.00	V	150	15	-60.69	3.66	49.97	-54.83	-13.00	-41.83
26880.00	V	150	274	-60.44	4.14	50.70	-54.10	-13.00	-41.10
30720.00	V	-	-	-63.36	5.99	49.63	-55.17	-13.00	-42.17
34560.00	V	-	-	-62.59	7.49	51.91	-52.89	-13.00	-39.89
38400.00	V	-	-	-65.19	8.45	50.26	-54.54	-13.00	-41.54

Table 7-70. Radiated Spurious Data (NR Band n77 C-Band – Mid Channel – UL MIMO Ant6 + Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	3930.00
RB / Offset:	1/136
Mode:	Stand Alone

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	134	190	-64.65	16.06	58.41	-36.85	-13.00	-23.85
11790.00	V	-	-	-73.94	21.29	54.35	-40.91	-13.00	-27.91
15720.00	V	-	-	-76.09	28.23	59.14	-36.12	-13.00	-23.12
19650.00	V	150	9	-54.47	2.11	54.64	-50.16	-13.00	-37.16
23580.00	V	150	288	-58.31	3.57	52.26	-52.54	-13.00	-39.54
27510.00	V	150	286	-55.31	3.91	55.59	-49.21	-13.00	-36.21
31440.00	V	-	-	-63.38	6.40	50.02	-54.78	-13.00	-41.78
35370.00	V	-	-	-64.50	8.39	50.89	-53.91	-13.00	-40.91
39300.00	V	-	-	-63.50	9.97	53.48	-51.32	-13.00	-38.32

Table 7-71. Radiated Spurious Data (NR Band n77 C-Band – High Channel – UL MIMO Ant6 + Ant1)

FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 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

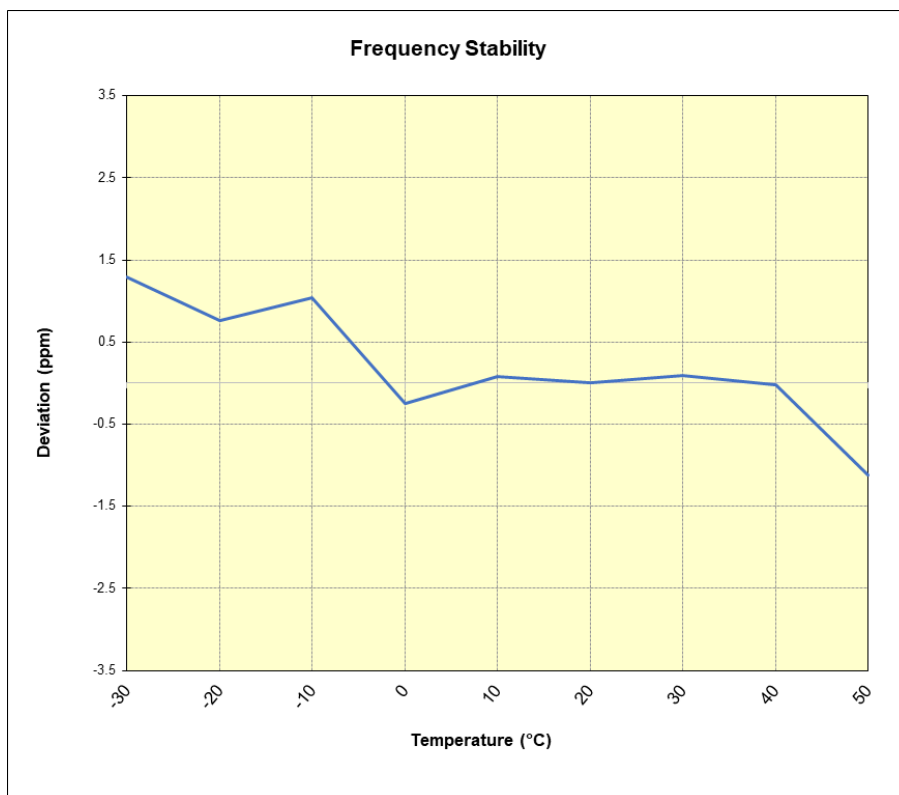
FCC ID: C3K2114	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n77

Operating Frequency (Hz):	3,840,000,000
Ref. Voltage (VDC):	3.85

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	- 30	3,840,167,430	4,956	0.0001291
		- 20	3,840,165,385	2,912	0.0000758
		- 10	3,840,166,461	3,988	0.0001038
		0	3,840,161,507	-966	-0.0000252
		+ 10	3,840,162,774	300	0.0000078
		+ 20 (Ref)	3,840,162,474	0	0.0000000
		+ 30	3,840,162,828	354	0.0000092
		+ 40	3,840,162,407	-67	-0.0000017
		+ 50	3,840,158,185	-4,289	-0.0001117
Battery Endpoint	2.80	+ 20	3,840,163,276	802	0.0000209

Table 7-72. NR Band n77 Frequency Stability Data



Plot 7-414. NR Band n77 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Microsoft Corporation Full Modular FCC ID: C3K2114** complies with all the requirements of Part 27 of the FCC rules.

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Test Report S/N: 1M2411190103-05-R2.C3K	Test Dates: 12/3/2024 – 3/12/2025	EUT Type: Full Modular	Page 287 of 287