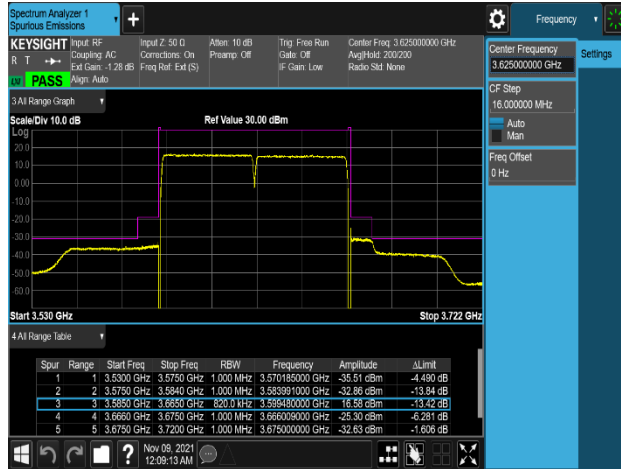
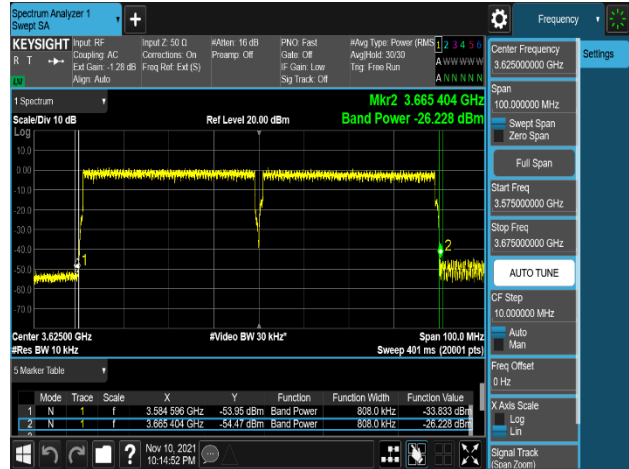
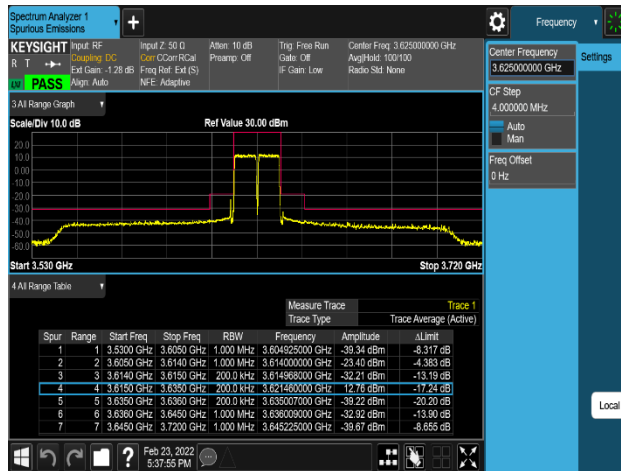




Plot 8-236. Channel Edge Emission Plot
(NR_n48_2C_40M+40M_QPSK - Middle Channel, Port 0)



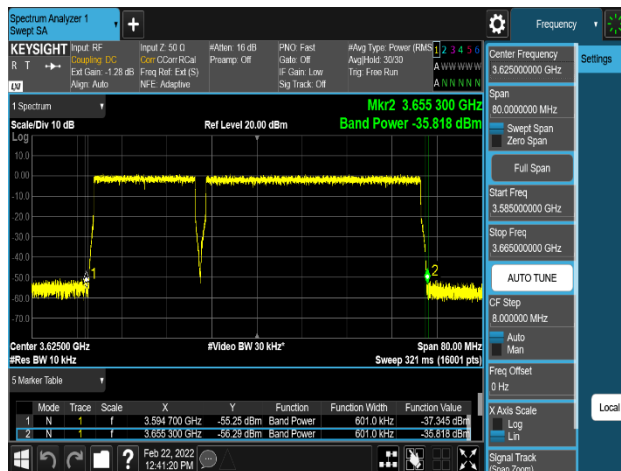
Plot 8-237. Channel Edge Emission Band Power integration method Plot
(NR_n48_2C_40M+40M_QPSK - Mid Channel, Port 0)



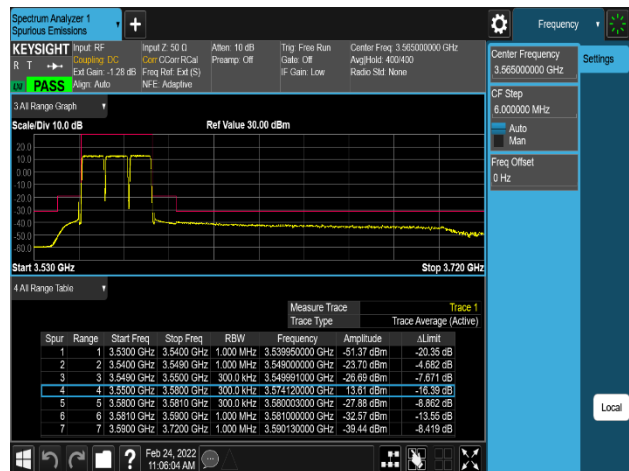
Plot 8-238. Channel Edge Emission Plot
(LTE_1C+NR_1C_10M+10M_QPSK - Mid Channel, Port 0)



Plot 8-239. Channel Edge Emission Plot
(LTE_1C+NR_1C_20M+40M_QPSK - Mid Channel, Port 0)

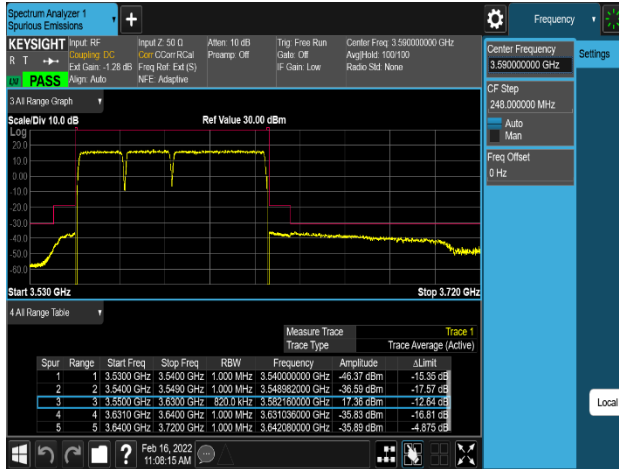


Plot 8-240. Channel Edge Emission Band Power integration method Plot
(NR_n48_2C_20M+40M_QPSK - Mid Channel, Port 0)

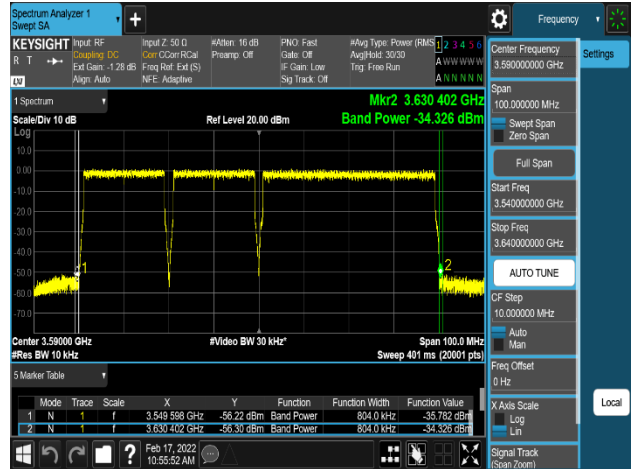


Plot 8-241. Channel Edge Emission Plot
(LTE_2C+NR_1C_10M+10M+10M_QPSK - Low Channel, Port 0)

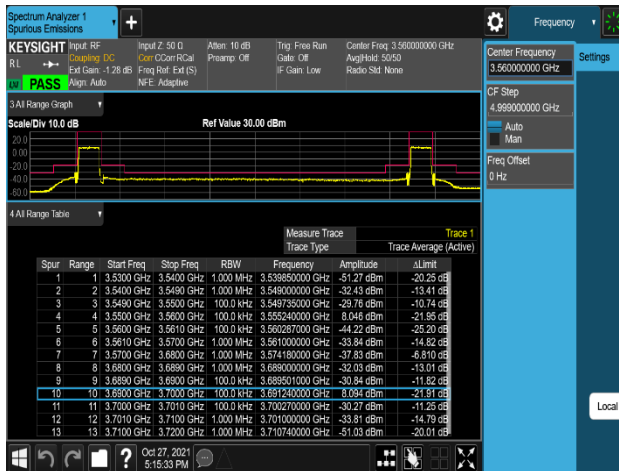
FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
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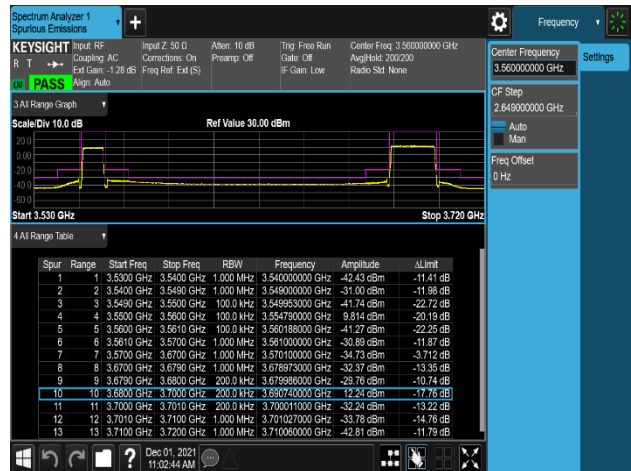
Plot 8-242. Channel Edge Emission Plot
(LTE_2C+NR_1C_20M+20M+40M_QPSK - Low Channel, Port 0)



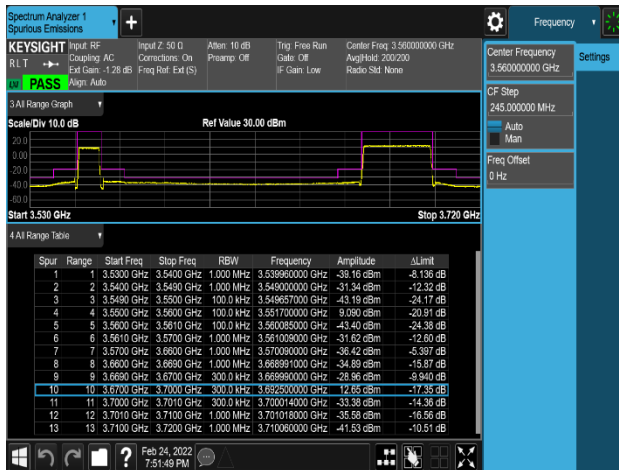
Plot 8-243. Channel Edge Emission Band Power integration method Plot
(LTE_2C+NR_1C_20M+20M+40M_QPSK - Low Channel, Port 0)



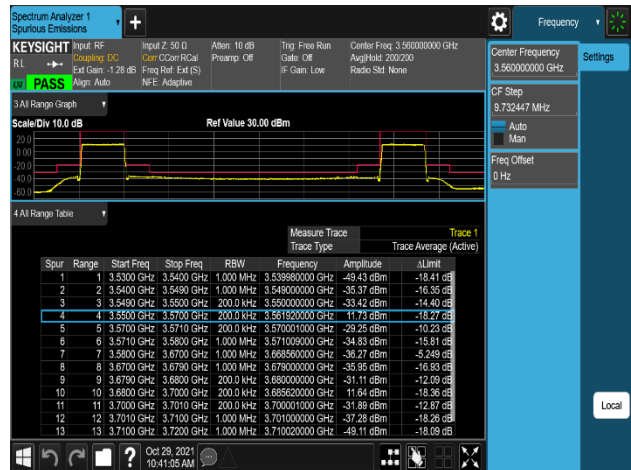
Plot 8-244. Channel Edge Emission Plot
(NR_n48_2C_10M+10M_QPSK - Non-Contiguous, Port 0)



Plot 8-245. Channel Edge Emission Plot
(NR_n48_2C_10M+20M_QPSK - Non-Contiguous, Port 0)

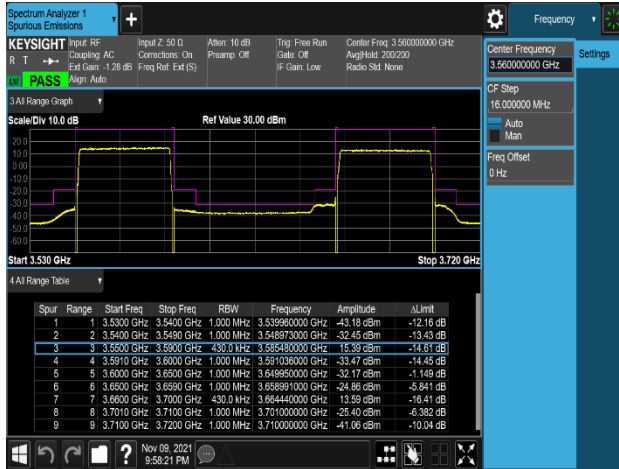


Plot 8-246. Channel Edge Emission Plot
(NR_n48_2C_10M+30M_QPSK - Non-Contiguous, Port 0)

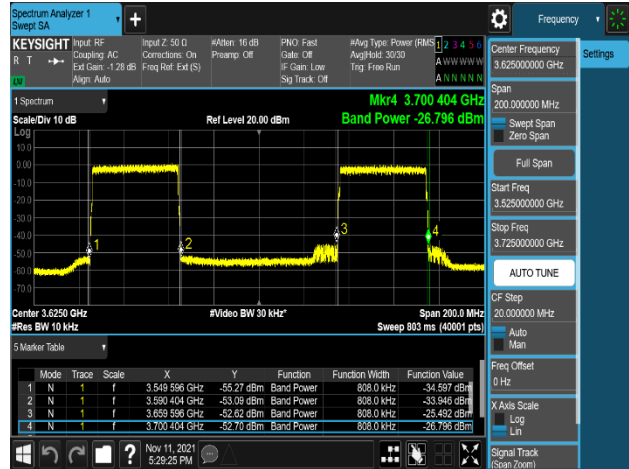


Plot 8-247. Channel Edge Emission Plot
(NR_n48_2C_20M+20M_QPSK - Non-Contiguous, Port 0)

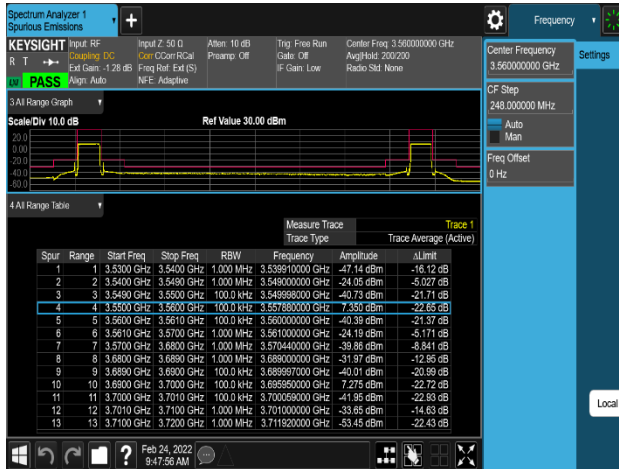
FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: BK21101307-R3.A3L	Test Dates: 10/15/2021 - 03/04/2022	EUT Type: RRU(RT4401)		Page 122 of 175



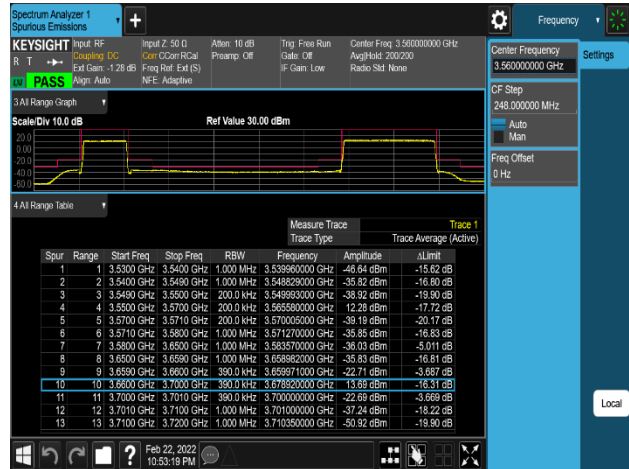
Plot 8-248. Channel Edge Emission Plot
(NR_n48_2C_40M+40M_QPSK - Non-Contiguous, Port 0)



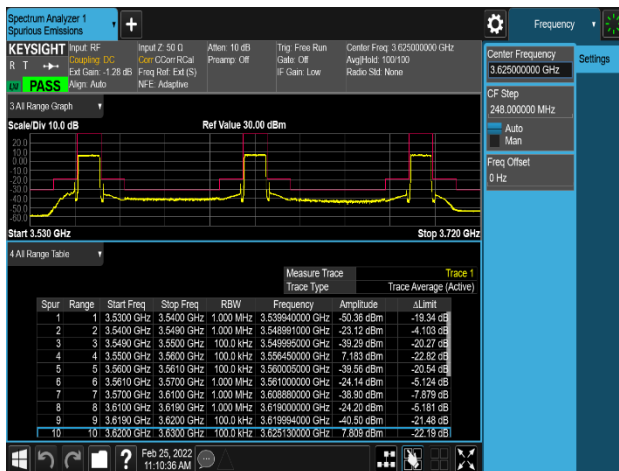
Plot 8-249. Channel Edge Emission Band Power integration method Plot
(NR_n48_2C_40M+40M_QPSK - Non-Contiguous, Port 0)



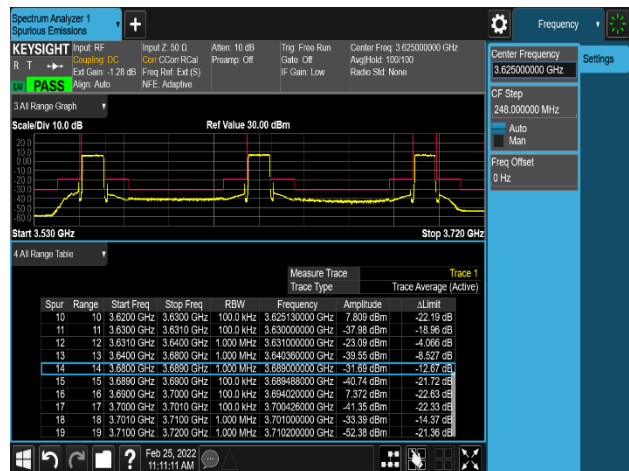
Plot 8-250. Channel Edge Emission Plot
(LTE_1C+NR_1C_10M+10M_QPSK - Non-Contiguous, Port 0)



Plot 8-251. Channel Edge Emission Plot
(LTE_1C+NR_1C_20M+40M_QPSK - Non-Contiguous, Port 0)

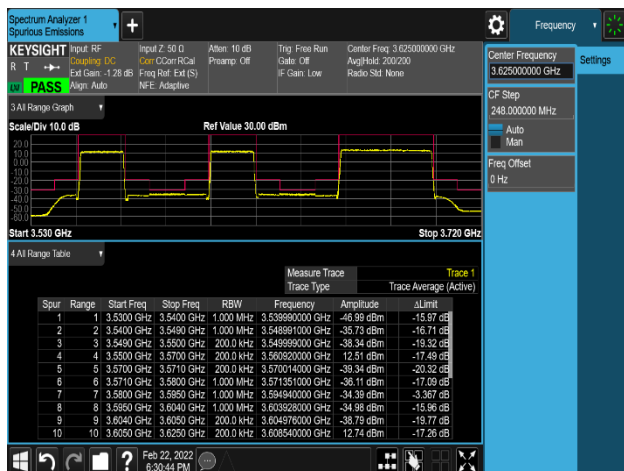


Plot 8-252. Channel Edge Emission Plot
(LTE_2C+NR_1C_10M+10M+10M_QPSK - Low Channel, Port 0)

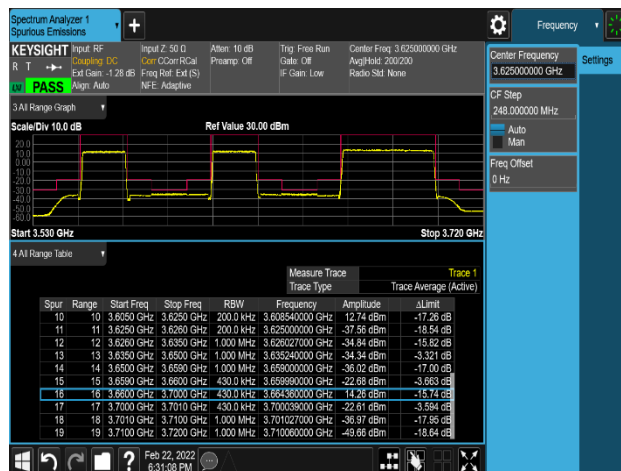


Plot 8-253. Channel Edge Emission Plot
(LTE_2C+NR_1C_10M+10M+10M_QPSK - Low Channel, Port 0)

FCC: A3LRT4401-48A			MEASUREMENT REPORT (Class II Permissive Change)	 Approved by: Technical Manager
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Plot 8-254. Channel Edge Emission Plot
(LTE_2C+NR_1C_20M+20M+40M_QPSK – Non-Contiguous, Port 0)



Plot 8-255. Channel Edge Emission Plot
(LTE_2C+NR_1C_20M+20M+40M_QPSK – Non-Contiguous, Port 0)

FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 124 of 175

8.8 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26 - Section 5.2.3.4.
KDB 971168 D01 v03r01 - Section 6
KDB 662911 D01 v02r01 - Section E)3)

Test Setting

1. Start frequency was set to 30 MHz and stop frequency was set to at least 10 * the fundamental frequency excluding the frequency range of the Channel Edge measurement.
2. RBW: 1 MHz
3. VBW $\geq 3 \times$ RBW
4. Detector = RMS
5. Number of sweep points $\geq 2 \times$ Span/RBW
6. Trace mode = trace average
7. Sweep time = auto couple
8. The trace was allowed to stabilize

Limit

- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz

Test Setup

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

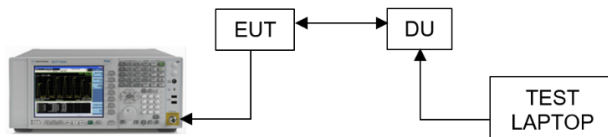


Figure 8-7. Test Instrument & Measurement Setup

FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
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Test Notes

1. All the measurement has been tested but test table result, and test plots are referred from the worst of value of each of modulation of each antenna ports.
2. When detected Emission, this value has been applied as reference offset in the spectrum analyzer.
 Duty cycle correction factor was added to spectrum analyzer.
 Duty cycle = transmit on-time / transmitter period = 3.72 ms / 5.00 ms = 0.74
 Duty cycle correction factor = $10 \cdot \log(1/\text{duty cycle}) = 10 \cdot \log(1/0.74) = 1.28 \text{ dB}$
3. The limits were adjusted by a factor of $[-10 \cdot \log(4)] \text{ dB}$ to account for the device operation as a 4 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:
 MIMO Factor = $10 \cdot \log(4) = 6.02 \text{ dB}$

Frequency range	Basic Limit (dBm/MHz)	MIMO Factor (dB)	Adjusted limit (dBm)
below 3530 MHz and above 3720 MHz	-40	6.02	- 46.02
Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor			

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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-56.51	-56.59	-56.24	-56.51	-46.02	-10.2
		3.72 GHz to 6.2 GHz	-53.10	-53.28	-53.12	-53.85	-46.02	-7.1
		6.2 GHz to 18 GHz	-54.78	-55.63	-54.74	-55.74	-46.02	-8.7
		18 GHz to 40 GHz	-52.36	-51.75	-52.22	-52.44	-46.02	-5.7
	1	30 MHz to 3530 MHz	-55.55	-56.29	-55.62	-55.39	-46.02	-9.4
		3.72 GHz to 6.2 GHz	-54.52	-53.25	-53.38	-53.64	-46.02	-7.2
		6.2 GHz to 18 GHz	-54.07	-54.05	-54.10	-53.87	-46.02	-7.9
		18 GHz to 40 GHz	-52.57	-52.61	-52.63	-53.31	-46.02	-6.6
	2	30 MHz to 3530 MHz	-56.04	-55.93	-57.05	-56.19	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-54.39	-52.65	-54.65	-53.59	-46.02	-6.6
		6.2 GHz to 18 GHz	-55.34	-55.46	-55.05	-55.19	-46.02	-9.0
		18 GHz to 40 GHz	-52.29	-52.33	-52.69	-52.61	-46.02	-6.3
	3	30 MHz to 3530 MHz	-57.41	-57.34	-56.54	-56.96	-46.02	-10.5
		3.72 GHz to 6.2 GHz	-55.04	-54.94	-54.28	-55.12	-46.02	-8.3
		6.2 GHz to 18 GHz	-54.11	-53.99	-53.97	-53.75	-46.02	-7.7
		18 GHz to 40 GHz	-52.83	-53.08	-52.97	-52.78	-46.02	-6.8
Middle	0	30 MHz to 3530 MHz	-54.99	-56.69	-55.93	-55.87	-46.02	-9.0
		3.72 GHz to 6.2 GHz	-54.22	-53.56	-53.54	-53.87	-46.02	-7.5
		6.2 GHz to 18 GHz	-55.03	-55.19	-55.09	-55.27	-46.02	-9.0
		18 GHz to 40 GHz	-52.21	-52.37	-52.12	-52.68	-46.02	-6.1
	1	30 MHz to 3530 MHz	-55.82	-56.58	-56.47	-56.58	-46.02	-9.8
		3.72 GHz to 6.2 GHz	-53.98	-53.97	-53.99	-53.34	-46.02	-7.3
		6.2 GHz to 18 GHz	-53.26	-53.76	-53.94	-54.24	-46.02	-7.2
		18 GHz to 40 GHz	-52.95	-52.75	-52.89	-52.96	-46.02	-6.7
	2	30 MHz to 3530 MHz	-56.54	-56.00	-56.44	-56.19	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-53.69	-52.77	-54.33	-53.35	-46.02	-6.7
		6.2 GHz to 18 GHz	-54.23	-55.30	-55.28	-54.46	-46.02	-8.2
		18 GHz to 40 GHz	-52.13	-52.51	-52.33	-52.63	-46.02	-6.1
	3	30 MHz to 3530 MHz	-57.74	-56.13	-57.52	-56.82	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-55.02	-55.59	-54.47	-54.92	-46.02	-8.4
		6.2 GHz to 18 GHz	-52.61	-54.34	-53.75	-53.82	-46.02	-6.6
		18 GHz to 40 GHz	-52.35	-52.97	-52.84	-53.03	-46.02	-6.3
High	0	30 MHz to 3530 MHz	-56.08	-54.86	-56.62	-56.08	-46.02	-8.8
		3.72 GHz to 6.2 GHz	-53.91	-54.07	-52.61	-53.50	-46.02	-6.6
		6.2 GHz to 18 GHz	-54.44	-54.81	-55.00	-55.15	-46.02	-8.4
		18 GHz to 40 GHz	-52.40	-52.43	-51.91	-52.55	-46.02	-5.9
	1	30 MHz to 3530 MHz	-55.32	-55.17	-55.82	-56.43	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-53.43	-52.74	-54.04	-53.56	-46.02	-6.7
		6.2 GHz to 18 GHz	-53.76	-54.23	-54.16	-53.77	-46.02	-7.7
		18 GHz to 40 GHz	-52.69	-52.52	-53.23	-52.46	-46.02	-6.4
	2	30 MHz to 3530 MHz	-56.18	-56.21	-56.96	-56.01	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-54.36	-53.78	-53.98	-54.20	-46.02	-7.8
		6.2 GHz to 18 GHz	-53.85	-55.78	-55.55	-55.04	-46.02	-7.8
		18 GHz to 40 GHz	-52.78	-52.10	-52.40	-52.62	-46.02	-6.1
	3	30 MHz to 3530 MHz	-57.54	-57.42	-57.13	-58.01	-46.02	-11.1
		3.72 GHz to 6.2 GHz	-54.38	-54.93	-54.20	-54.15	-46.02	-8.1
		6.2 GHz to 18 GHz	-54.37	-53.71	-53.66	-53.89	-46.02	-7.6
		18 GHz to 40 GHz	-52.88	-53.07	-53.20	-52.62	-46.02	-6.6

Table 8-59. Conducted Spurious Emission Summary Data (NR_n48_1C_10M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 127 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-56.69	-56.59	-56.49	-56.47	-46.02	-10.5
		3.72 GHz to 6.2 GHz	-53.82	-54.17	-54.13	-53.79	-46.02	-7.8
		6.2 GHz to 18 GHz	-55.57	-54.78	-55.29	-54.86	-46.02	-8.8
		18 GHz to 40 GHz	-52.42	-52.76	-52.77	-52.53	-46.02	-6.4
	1	30 MHz to 3530 MHz	-56.68	-55.57	-56.28	-55.86	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-52.95	-53.04	-53.75	-52.51	-46.02	-6.5
		6.2 GHz to 18 GHz	-54.07	-54.56	-54.26	-54.12	-46.02	-8.1
		18 GHz to 40 GHz	-52.99	-52.60	-52.74	-53.00	-46.02	-6.6
	2	30 MHz to 3530 MHz	-55.83	-56.11	-56.16	-56.00	-46.02	-9.8
		3.72 GHz to 6.2 GHz	-53.68	-52.70	-53.24	-53.57	-46.02	-6.7
		6.2 GHz to 18 GHz	-54.34	-55.20	-55.12	-54.81	-46.02	-8.3
		18 GHz to 40 GHz	-52.35	-52.69	-52.74	-52.30	-46.02	-6.3
	3	30 MHz to 3530 MHz	-56.50	-57.52	-56.34	-58.04	-46.02	-10.3
		3.72 GHz to 6.2 GHz	-54.17	-55.24	-54.15	-54.86	-46.02	-8.1
		6.2 GHz to 18 GHz	-54.13	-54.06	-54.18	-54.54	-46.02	-8.0
		18 GHz to 40 GHz	-53.05	-51.81	-52.99	-52.89	-46.02	-5.8
Middle	0	30 MHz to 3530 MHz	-56.80	-56.83	-56.04	-56.79	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-53.07	-54.32	-53.75	-53.56	-46.02	-7.1
		6.2 GHz to 18 GHz	-54.68	-55.35	-53.79	-55.29	-46.02	-7.8
		18 GHz to 40 GHz	-52.84	-52.57	-52.87	-52.36	-46.02	-6.3
	1	30 MHz to 3530 MHz	-56.13	-56.33	-56.73	-57.05	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-53.49	-54.22	-53.59	-53.74	-46.02	-7.5
		6.2 GHz to 18 GHz	-54.02	-54.32	-54.71	-54.31	-46.02	-8.0
		18 GHz to 40 GHz	-53.16	-52.70	-52.77	-52.77	-46.02	-6.7
	2	30 MHz to 3530 MHz	-56.09	-56.25	-57.05	-56.63	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-53.64	-53.05	-54.12	-54.15	-46.02	-7.0
		6.2 GHz to 18 GHz	-55.25	-54.93	-54.93	-54.68	-46.02	-8.7
		18 GHz to 40 GHz	-52.85	-52.69	-51.61	-52.14	-46.02	-5.6
	3	30 MHz to 3530 MHz	-57.13	-57.10	-57.23	-57.81	-46.02	-11.1
		3.72 GHz to 6.2 GHz	-54.72	-54.94	-55.48	-55.18	-46.02	-8.7
		6.2 GHz to 18 GHz	-54.18	-54.11	-54.03	-54.04	-46.02	-8.0
		18 GHz to 40 GHz	-52.86	-53.25	-52.53	-52.67	-46.02	-6.5
High	0	30 MHz to 3530 MHz	-56.64	-55.83	-55.40	-56.66	-46.02	-9.4
		3.72 GHz to 6.2 GHz	-53.82	-54.02	-54.26	-54.20	-46.02	-7.8
		6.2 GHz to 18 GHz	-55.28	-54.87	-54.27	-55.14	-46.02	-8.3
		18 GHz to 40 GHz	-52.23	-52.55	-51.83	-52.61	-46.02	-5.8
	1	30 MHz to 3530 MHz	-56.71	-55.89	-55.92	-56.93	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.55	-54.10	-53.96	-53.65	-46.02	-7.5
		6.2 GHz to 18 GHz	-53.95	-54.17	-54.19	-54.00	-46.02	-7.9
		18 GHz to 40 GHz	-52.70	-52.97	-52.58	-52.31	-46.02	-6.3
	2	30 MHz to 3530 MHz	-56.35	-56.45	-56.53	-56.72	-46.02	-10.3
		3.72 GHz to 6.2 GHz	-53.74	-54.26	-53.66	-53.31	-46.02	-7.3
		6.2 GHz to 18 GHz	-55.27	-54.17	-55.33	-55.66	-46.02	-8.2
		18 GHz to 40 GHz	-52.40	-52.68	-52.40	-52.46	-46.02	-6.4
	3	30 MHz to 3530 MHz	-57.86	-57.24	-56.73	-57.57	-46.02	-10.7
		3.72 GHz to 6.2 GHz	-55.04	-54.84	-54.79	-54.82	-46.02	-8.8
		6.2 GHz to 18 GHz	-54.35	-53.97	-54.66	-53.63	-46.02	-7.6
		18 GHz to 40 GHz	-52.23	-52.67	-52.71	-52.69	-46.02	-6.2

Table 8-60. Conducted Spurious Emission Summary Data (NR_n48_1C_20M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 128 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 2700 MHz	-51.91	-51.88	-51.61	-51.89	-46.02	-5.6
		2700 MHz to 3000 MHz	-48.36	-48.13	-48.23	-48.07	-46.02	-2.0
		3000 MHz to 3500 MHz	-51.30	-51.16	-51.42	-51.22	-46.02	-5.1
		3500 MHz to 3530 MHz	-52.14	-51.85	-52.12	-51.99	-46.02	-5.8
		3720 MHz to 3750 MHz	-51.94	-51.98	-52.00	-51.98	-46.02	-5.9
		3750 MHz to 6200 MHz	-49.92	-50.00	-49.90	-49.76	-46.02	-3.7
		6200 MHz to 18 GHz	-52.68	-52.67	-52.45	-51.89	-46.02	-5.9
		18 GHz to 40 GHz	-51.02	-51.15	-50.56	-51.12	-46.02	-4.5
	1	30 MHz to 2700 MHz	-51.91	-51.79	-51.78	-51.82	-46.02	-5.8
		2700 MHz to 3000 MHz	-48.36	-48.20	-48.21	-48.05	-46.02	-2.0
		3000 MHz to 3500 MHz	-51.36	-51.19	-51.31	-51.20	-46.02	-5.2
		3500 MHz to 3530 MHz	-52.02	-51.77	-51.98	-51.79	-46.02	-5.7
		3720 MHz to 3750 MHz	-51.86	-51.78	-51.62	-51.77	-46.02	-5.6
		3750 MHz to 6200 MHz	-50.34	-50.14	-50.21	-49.85	-46.02	-3.8
		6200 MHz to 18 GHz	-51.04	-51.81	-51.31	-51.51	-46.02	-5.0
		18 GHz to 40 GHz	-50.06	-50.29	-50.69	-49.76	-46.02	-3.7
	2	30 MHz to 2700 MHz	-51.61	-51.55	-51.65	-51.60	-46.02	-5.5
		2700 MHz to 3000 MHz	-48.00	-47.89	-47.83	-47.88	-46.02	-1.8
		3000 MHz to 3500 MHz	-51.07	-51.02	-51.20	-50.80	-46.02	-4.8
		3500 MHz to 3530 MHz	-51.83	-51.60	-51.80	-51.59	-46.02	-5.6
		3720 MHz to 3750 MHz	-51.58	-51.66	-51.56	-51.05	-46.02	-5.0
		3750 MHz to 6200 MHz	-49.59	-49.57	-49.65	-49.74	-46.02	-3.6
		6200 MHz to 18 GHz	-51.30	-51.89	-51.88	-52.08	-46.02	-5.3
		18 GHz to 40 GHz	-50.28	-50.80	-50.58	-50.55	-46.02	-4.3
	3	30 MHz to 2700 MHz	-52.30	-52.49	-52.53	-52.41	-46.02	-6.3
		2700 MHz to 3000 MHz	-48.87	-48.69	-48.79	-48.76	-46.02	-2.7
		3000 MHz to 3500 MHz	-51.84	-51.76	-51.85	-51.64	-46.02	-5.6
		3500 MHz to 3530 MHz	-52.79	-52.49	-52.57	-52.49	-46.02	-6.5
		3720 MHz to 3750 MHz	-52.44	-52.45	-52.50	-52.31	-46.02	-6.3
		3750 MHz to 6200 MHz	-50.19	-49.91	-50.06	-49.86	-46.02	-3.8
		6200 MHz to 18 GHz	-51.99	-54.96	-51.83	-51.09	-46.02	-5.1
		18 GHz to 40 GHz	-50.93	-49.68	-50.42	-50.15	-46.02	-3.7
Middle	0	30 MHz to 2700 MHz	-51.69	-51.84	-51.88	-51.85	-46.02	-5.7
		2700 MHz to 3000 MHz	-48.15	-48.16	-48.21	-48.21	-46.02	-2.1
		3000 MHz to 3500 MHz	-51.31	-51.24	-51.30	-51.34	-46.02	-5.2
		3500 MHz to 3530 MHz	-52.04	-51.91	-52.03	-51.95	-46.02	-5.9
		3720 MHz to 3750 MHz	-51.75	-51.48	-52.02	-51.74	-46.02	-5.5
		3750 MHz to 6200 MHz	-49.83	-49.91	-49.82	-49.68	-46.02	-3.7
		6200 MHz to 18 GHz	-51.99	-53.50	-52.66	-52.85	-46.02	-6.0
		18 GHz to 40 GHz	-50.70	-50.65	-50.81	-50.53	-46.02	-4.5
	1	30 MHz to 2700 MHz	-51.91	-51.87	-52.00	-51.95	-46.02	-5.9
		2700 MHz to 3000 MHz	-48.13	-48.15	-48.15	-48.10	-46.02	-2.1
		3000 MHz to 3500 MHz	-51.26	-51.19	-51.25	-51.23	-46.02	-5.2
		3500 MHz to 3530 MHz	-51.93	-51.79	-51.80	-51.98	-46.02	-5.8
		3720 MHz to 3750 MHz	-51.73	-51.86	-51.79	-51.80	-46.02	-5.7
		3750 MHz to 6200 MHz	-49.92	-50.30	-50.20	-50.15	-46.02	-3.9
		6200 MHz to 18 GHz	-50.95	-50.85	-50.92	-51.21	-46.02	-4.8
		18 GHz to 40 GHz	-49.48	-50.62	-49.47	-50.03	-46.02	-3.5
	2	30 MHz to 2700 MHz	-51.67	-51.64	-51.72	-51.60	-46.02	-5.6
		2700 MHz to 3000 MHz	-47.96	-47.77	-47.87	-47.63	-46.02	-1.6

FCC: A3LRT4401-48A		MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 129 of 175	

High		3000 MHz to 3500 MHz	-50.92	-50.97	-50.95	-50.84	-46.02	-4.8
		3500 MHz to 3530 MHz	-51.62	-51.65	-51.69	-51.51	-46.02	-5.5
		3720 MHz to 3750 MHz	-51.69	-51.55	-51.34	-51.49	-46.02	-5.3
		3750 MHz to 6200 MHz	-49.70	-49.80	-49.60	-49.72	-46.02	-3.6
		6200 MHz to 18 GHz	-51.92	-52.09	-50.90	-52.24	-46.02	-4.9
		18 GHz to 40 GHz	-51.00	-50.46	-50.84	-50.81	-46.02	-4.4
	3	30 MHz to 2700 MHz	-52.49	-52.41	-52.45	-52.48	-46.02	-6.4
		2700 MHz to 3000 MHz	-48.49	-48.57	-48.75	-48.67	-46.02	-2.5
		3000 MHz to 3500 MHz	-51.72	-51.79	-51.87	-51.74	-46.02	-5.7
		3500 MHz to 3530 MHz	-52.45	-52.52	-52.56	-52.33	-46.02	-6.3
		3720 MHz to 3750 MHz	-52.37	-51.85	-52.23	-52.28	-46.02	-5.8
		3750 MHz to 6200 MHz	-49.77	-50.11	-49.78	-49.39	-46.02	-3.4
		6200 MHz to 18 GHz	-50.87	-52.58	-51.69	-51.67	-46.02	-4.9
		18 GHz to 40 GHz	-52.49	-52.41	-52.45	-52.48	-46.02	-4.0
High	0	30 MHz to 2700 MHz	-51.99	-51.88	-51.90	-51.76	-46.02	-5.7
		2700 MHz to 3000 MHz	-48.18	-48.12	-48.18	-48.20	-46.02	-2.1
		3000 MHz to 3500 MHz	-51.26	-51.33	-51.37	-51.37	-46.02	-5.2
		3500 MHz to 3530 MHz	-51.97	-52.05	-52.06	-52.03	-46.02	-5.9
		3720 MHz to 3750 MHz	-51.71	-51.75	-51.68	-51.85	-46.02	-5.7
		3750 MHz to 6200 MHz	-49.72	-49.85	-49.93	-50.01	-46.02	-3.7
		6200 MHz to 18 GHz	-52.05	-52.64	-53.00	-52.74	-46.02	-6.0
		18 GHz to 40 GHz	-50.52	-49.94	-49.64	-51.00	-46.02	-3.6
	1	30 MHz to 2700 MHz	-51.85	-51.97	-51.89	-51.83	-46.02	-5.8
		2700 MHz to 3000 MHz	-48.15	-48.10	-48.18	-48.22	-46.02	-2.1
		3000 MHz to 3500 MHz	-51.30	-51.17	-51.23	-51.27	-46.02	-5.1
		3500 MHz to 3530 MHz	-51.95	-51.87	-52.03	-51.83	-46.02	-5.8
		3720 MHz to 3750 MHz	-51.84	-51.87	-51.81	-51.58	-46.02	-5.6
		3750 MHz to 6200 MHz	-50.07	-50.01	-50.15	-50.28	-46.02	-4.0
		6200 MHz to 18 GHz	-51.38	-51.69	-50.71	-51.19	-46.02	-4.7
		18 GHz to 40 GHz	-49.47	-50.24	-49.79	-49.84	-46.02	-3.5
	2	30 MHz to 2700 MHz	-51.55	-51.63	-51.71	-51.74	-46.02	-5.5
		2700 MHz to 3000 MHz	-47.93	-47.87	-47.89	-47.96	-46.02	-1.9
		3000 MHz to 3500 MHz	-51.02	-50.82	-50.82	-51.08	-46.02	-4.8
		3500 MHz to 3530 MHz	-51.67	-51.72	-51.72	-51.66	-46.02	-5.6
		3720 MHz to 3750 MHz	-51.65	-51.64	-51.37	-51.43	-46.02	-5.3
		3750 MHz to 6200 MHz	-49.59	-49.70	-49.61	-49.73	-46.02	-3.6
		6200 MHz to 18 GHz	-51.13	-51.88	-51.85	-51.69	-46.02	-5.1
		18 GHz to 40 GHz	-50.09	-50.26	-50.78	-50.57	-46.02	-4.1
	3	30 MHz to 2700 MHz	-52.40	-52.67	-52.55	-52.50	-46.02	-6.4
		2700 MHz to 3000 MHz	-48.72	-48.64	-48.72	-48.79	-46.02	-2.6
		3000 MHz to 3500 MHz	-51.88	-51.75	-51.74	-51.85	-46.02	-5.7
		3500 MHz to 3530 MHz	-52.51	-52.63	-52.57	-52.40	-46.02	-6.4
		3720 MHz to 3750 MHz	-52.38	-52.36	-52.36	-52.17	-46.02	-6.2
		3750 MHz to 6200 MHz	-49.91	-49.91	-49.98	-49.95	-46.02	-3.9
		6200 MHz to 18 GHz	-51.79	-51.36	-50.77	-52.29	-46.02	-4.8
		18 GHz to 40 GHz	-50.28	-50.59	-50.80	-50.59	-46.02	-4.3

Table 8-61. Conducted Spurious Emission Summary Data (NR_n48_1C_30M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 130 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-56.42	-55.12	-55.54	-55.99	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-54.03	-53.79	-52.90	-53.29	-46.02	-6.9
		6.2 GHz to 18 GHz	-54.56	-55.53	-54.69	-54.52	-46.02	-8.5
		18 GHz to 40 GHz	-52.38	-52.48	-52.59	-52.33	-46.02	-6.3
	1	30 MHz to 3530 MHz	-56.57	-56.12	-56.69	-55.94	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-52.77	-53.11	-53.99	-52.82	-46.02	-6.8
		6.2 GHz to 18 GHz	-54.20	-53.56	-54.45	-53.85	-46.02	-7.5
		18 GHz to 40 GHz	-52.69	-52.88	-52.58	-52.52	-46.02	-6.5
	2	30 MHz to 3530 MHz	-56.68	-55.90	-55.89	-56.59	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.89	-53.87	-54.34	-54.10	-46.02	-7.8
		6.2 GHz to 18 GHz	-55.71	-55.29	-55.52	-54.51	-46.02	-8.5
		18 GHz to 40 GHz	-52.12	-52.09	-52.66	-52.58	-46.02	-6.1
	3	30 MHz to 3530 MHz	-58.06	-57.30	-57.81	-56.48	-46.02	-10.5
		3.72 GHz to 6.2 GHz	-54.45	-55.26	-55.01	-55.06	-46.02	-8.4
		6.2 GHz to 18 GHz	-54.21	-54.16	-53.04	-54.25	-46.02	-7.0
		18 GHz to 40 GHz	-52.86	-52.60	-52.74	-52.60	-46.02	-6.6
Middle	0	30 MHz to 3530 MHz	-56.70	-56.07	-56.09	-55.89	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.97	-53.11	-54.24	-53.35	-46.02	-7.1
		6.2 GHz to 18 GHz	-55.14	-55.21	-54.76	-54.86	-46.02	-8.7
		18 GHz to 40 GHz	-52.55	-51.74	-52.19	-52.61	-46.02	-5.7
	1	30 MHz to 3530 MHz	-56.42	-57.15	-56.00	-56.61	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-52.97	-53.88	-53.06	-53.51	-46.02	-6.9
		6.2 GHz to 18 GHz	-54.17	-53.30	-54.06	-53.23	-46.02	-7.2
		18 GHz to 40 GHz	-52.85	-52.18	-51.70	-53.03	-46.02	-5.7
	2	30 MHz to 3530 MHz	-56.74	-56.76	-55.41	-56.11	-46.02	-9.4
		3.72 GHz to 6.2 GHz	-53.33	-53.57	-53.40	-54.45	-46.02	-7.3
		6.2 GHz to 18 GHz	-54.85	-54.46	-54.56	-55.03	-46.02	-8.4
		18 GHz to 40 GHz	-52.16	-52.20	-52.25	-52.52	-46.02	-6.1
	3	30 MHz to 3530 MHz	-57.42	-57.80	-57.25	-57.29	-46.02	-11.2
		3.72 GHz to 6.2 GHz	-54.65	-55.18	-54.81	-55.23	-46.02	-8.6
		6.2 GHz to 18 GHz	-53.56	-54.23	-53.50	-54.58	-46.02	-7.5
		18 GHz to 40 GHz	-52.95	-52.83	-52.75	-52.49	-46.02	-6.5
High	0	30 MHz to 3530 MHz	-56.38	-56.75	-55.88	-55.52	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-53.91	-53.81	-52.97	-54.08	-46.02	-7.0
		6.2 GHz to 18 GHz	-55.08	-55.33	-54.93	-54.57	-46.02	-8.5
		18 GHz to 40 GHz	-52.28	-52.05	-52.27	-52.38	-46.02	-6.0
	1	30 MHz to 3530 MHz	-56.22	-56.17	-55.96	-56.73	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.68	-52.97	-53.27	-53.46	-46.02	-7.0
		6.2 GHz to 18 GHz	-54.72	-54.18	-54.41	-54.80	-46.02	-8.2
		18 GHz to 40 GHz	-52.68	-52.65	-52.67	-52.60	-46.02	-6.6
	2	30 MHz to 3530 MHz	-56.06	-56.77	-56.25	-56.51	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-54.08	-53.18	-53.92	-53.64	-46.02	-7.2
		6.2 GHz to 18 GHz	-55.13	-54.26	-54.14	-55.18	-46.02	-8.1
		18 GHz to 40 GHz	-52.43	-51.91	-52.65	-52.19	-46.02	-5.9
	3	30 MHz to 3530 MHz	-56.70	-57.19	-56.53	-57.72	-46.02	-10.5
		3.72 GHz to 6.2 GHz	-55.39	-54.64	-54.03	-55.69	-46.02	-8.0
		6.2 GHz to 18 GHz	-54.18	-54.73	-54.14	-54.19	-46.02	-8.1
		18 GHz to 40 GHz	-52.96	-52.86	-52.49	-52.55	-46.02	-6.5

Table 8-62. Conducted Spurious Emission Summary Data (NR_n48_1C_40M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 131 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-56.55	-56.12	-56.25	-56.65	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-54.41	-53.98	-53.61	-54.00	-46.02	-7.6
		6.2 GHz to 18 GHz	-54.91	-54.92	-55.92	-54.54	-46.02	-8.5
		18 GHz to 40 GHz	-52.42	-52.65	-52.65	-52.68	-46.02	-6.4
	1	30 MHz to 3530 MHz	-56.34	-56.55	-56.19	-56.47	-46.02	-10.2
		3.72 GHz to 6.2 GHz	-54.45	-54.02	-54.01	-53.76	-46.02	-7.7
		6.2 GHz to 18 GHz	-54.68	-54.49	-54.40	-54.77	-46.02	-8.4
		18 GHz to 40 GHz	-52.93	-52.49	-52.74	-52.52	-46.02	-6.5
	2	30 MHz to 3530 MHz	-56.93	-56.01	-56.41	-55.92	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-54.50	-54.11	-53.70	-54.41	-46.02	-7.7
		6.2 GHz to 18 GHz	-55.79	-54.90	-55.14	-55.14	-46.02	-8.9
		18 GHz to 40 GHz	-52.23	-52.25	-51.81	-52.45	-46.02	-5.8
	3	30 MHz to 3530 MHz	-56.36	-57.72	-57.24	-56.06	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-54.27	-54.72	-55.43	-55.13	-46.02	-8.2
		6.2 GHz to 18 GHz	-53.79	-54.14	-54.32	-54.13	-46.02	-7.8
		18 GHz to 40 GHz	-52.74	-52.84	-52.51	-52.73	-46.02	-6.5
Middle	0	30 MHz to 3530 MHz	-56.04	-56.74	-56.03	-56.80	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-53.53	-54.59	-53.78	-54.39	-46.02	-7.5
		6.2 GHz to 18 GHz	-55.18	-55.75	-54.82	-54.01	-46.02	-8.0
		18 GHz to 40 GHz	-51.92	-51.67	-51.69	-52.54	-46.02	-5.7
	1	30 MHz to 3530 MHz	-56.45	-55.96	-55.95	-56.77	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.67	-53.78	-53.72	-53.05	-46.02	-7.0
		6.2 GHz to 18 GHz	-54.33	-53.51	-53.98	-55.53	-46.02	-7.5
		18 GHz to 40 GHz	-52.30	-52.06	-52.79	-52.94	-46.02	-6.0
	2	30 MHz to 3530 MHz	-55.26	-56.90	-56.06	-56.68	-46.02	-9.2
		3.72 GHz to 6.2 GHz	-54.50	-54.24	-54.10	-53.46	-46.02	-7.4
		6.2 GHz to 18 GHz	-55.45	-54.69	-55.36	-55.19	-46.02	-8.7
		18 GHz to 40 GHz	-52.55	-52.18	-52.58	-52.25	-46.02	-6.2
	3	30 MHz to 3530 MHz	-57.25	-57.25	-57.85	-57.38	-46.02	-11.2
		3.72 GHz to 6.2 GHz	-53.46	-54.07	-54.26	-54.30	-46.02	-7.4
		6.2 GHz to 18 GHz	-53.84	-54.12	-53.03	-54.00	-46.02	-7.0
		18 GHz to 40 GHz	-52.83	-52.65	-52.36	-52.89	-46.02	-6.3
High	0	30 MHz to 3530 MHz	-55.94	-56.02	-56.64	-56.11	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.31	-54.50	-54.02	-53.88	-46.02	-7.3
		6.2 GHz to 18 GHz	-54.62	-55.00	-55.50	-55.58	-46.02	-8.6
		18 GHz to 40 GHz	-51.67	-52.60	-52.27	-52.55	-46.02	-5.7
	1	30 MHz to 3530 MHz	-56.31	-56.38	-55.49	-56.33	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-53.89	-52.55	-54.64	-53.41	-46.02	-6.5
		6.2 GHz to 18 GHz	-54.36	-54.05	-54.36	-54.09	-46.02	-8.0
		18 GHz to 40 GHz	-52.27	-52.78	-52.46	-52.84	-46.02	-6.3
	2	30 MHz to 3530 MHz	-56.66	-54.96	-56.40	-56.44	-46.02	-8.9
		3.72 GHz to 6.2 GHz	-54.11	-52.80	-54.04	-54.43	-46.02	-6.8
		6.2 GHz to 18 GHz	-54.96	-55.46	-55.34	-55.06	-46.02	-8.9
		18 GHz to 40 GHz	-52.36	-51.69	-52.59	-52.54	-46.02	-5.7
	3	30 MHz to 3530 MHz	-57.28	-57.29	-56.91	-55.91	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-54.95	-54.35	-55.02	-54.40	-46.02	-8.3
		6.2 GHz to 18 GHz	-53.42	-54.12	-53.76	-54.29	-46.02	-7.4
		18 GHz to 40 GHz	-52.72	-52.97	-52.94	-52.27	-46.02	-6.3

Table 8-63. Conducted Spurious Emission Summary Data (NR_n48_2C_10M+10M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 132 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	30 MHz to 3530 MHz	-56.21	-56.40	-55.94	-56.70	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.88	-53.47	-52.88	-53.56	-46.02	-6.9
		6.2 GHz to 18 GHz	-55.83	-55.42	-55.10	-55.27	-46.02	-9.1
		18 GHz to 40 GHz	-51.52	-52.73	-52.55	-52.63	-46.02	-5.5
	1	30 MHz to 3530 MHz	-56.42	-55.32	-55.21	-56.24	-46.02	-9.2
		3.72 GHz to 6.2 GHz	-53.58	-52.04	-53.86	-52.40	-46.02	-6.0
		6.2 GHz to 18 GHz	-53.18	-53.59	-54.58	-53.22	-46.02	-7.2
		18 GHz to 40 GHz	-52.29	-52.46	-52.51	-52.21	-46.02	-6.2
	2	30 MHz to 3530 MHz	-56.69	-56.00	-56.41	-55.61	-46.02	-9.6
		3.72 GHz to 6.2 GHz	-51.79	-54.01	-54.42	-54.44	-46.02	-5.8
		6.2 GHz to 18 GHz	-54.69	-55.38	-55.02	-55.34	-46.02	-8.7
		18 GHz to 40 GHz	-52.25	-52.57	-52.21	-52.64	-46.02	-6.2
	3	30 MHz to 3530 MHz	-57.64	-56.88	-57.56	-56.46	-46.02	-10.4
		3.72 GHz to 6.2 GHz	-55.64	-53.63	-55.26	-54.73	-46.02	-7.6
		6.2 GHz to 18 GHz	-53.88	-52.07	-53.90	-53.54	-46.02	-6.0
		18 GHz to 40 GHz	-52.59	-52.99	-51.88	-52.98	-46.02	-5.9

Table 8-64. Conducted Spurious Emission Summary Data (NR_n48_2C_10M+10M_Non-Contiguous)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 133 of 175

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-56.79	-55.77	-55.66	-55.90	-46.02	-9.6
		3.72 GHz to 6.2 GHz	-53.62	-54.16	-51.98	-53.75	-46.02	-6.0
		6.2 GHz to 18 GHz	-55.40	-54.33	-55.71	-55.13	-46.02	-8.3
		18 GHz to 40 GHz	-52.56	-52.66	-52.78	-52.36	-46.02	-6.3
	1	30 MHz to 3530 MHz	-56.66	-56.27	-56.28	-56.64	-46.02	-10.3
		3.72 GHz to 6.2 GHz	-53.23	-52.88	-53.01	-53.35	-46.02	-6.9
		6.2 GHz to 18 GHz	-54.85	-54.55	-53.82	-53.76	-46.02	-7.7
		18 GHz to 40 GHz	-53.06	-52.96	-52.96	-52.52	-46.02	-6.5
	2	30 MHz to 3530 MHz	-56.42	-55.16	-56.99	-56.37	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-54.77	-53.06	-53.97	-54.30	-46.02	-7.0
		6.2 GHz to 18 GHz	-55.27	-55.37	-53.91	-54.90	-46.02	-7.9
		18 GHz to 40 GHz	-51.66	-52.29	-52.35	-52.32	-46.02	-5.6
	3	30 MHz to 3530 MHz	-57.21	-56.73	-57.51	-56.41	-46.02	-10.4
		3.72 GHz to 6.2 GHz	-55.60	-53.89	-54.91	-55.38	-46.02	-7.9
		6.2 GHz to 18 GHz	-54.40	-54.29	-54.10	-54.39	-46.02	-8.1
		18 GHz to 40 GHz	-52.75	-52.58	-52.79	-52.85	-46.02	-6.6
Middle	0	30 MHz to 3530 MHz	-56.08	-56.90	-56.93	-56.47	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-54.91	-54.26	-54.40	-54.06	-46.02	-8.0
		6.2 GHz to 18 GHz	-55.12	-54.78	-54.96	-54.65	-46.02	-8.6
		18 GHz to 40 GHz	-52.34	-52.50	-52.32	-52.16	-46.02	-6.1
	1	30 MHz to 3530 MHz	-56.53	-54.75	-56.05	-56.49	-46.02	-8.7
		3.72 GHz to 6.2 GHz	-54.69	-53.98	-54.10	-53.15	-46.02	-7.1
		6.2 GHz to 18 GHz	-54.46	-54.57	-53.04	-54.75	-46.02	-7.0
		18 GHz to 40 GHz	-52.95	-52.93	-52.88	-52.90	-46.02	-6.9
	2	30 MHz to 3530 MHz	-56.81	-56.51	-55.98	-56.58	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-53.70	-54.05	-54.17	-54.87	-46.02	-7.7
		6.2 GHz to 18 GHz	-54.40	-54.64	-54.47	-55.90	-46.02	-8.4
		18 GHz to 40 GHz	-52.10	-52.60	-52.76	-52.55	-46.02	-6.1
	3	30 MHz to 3530 MHz	-56.81	-57.13	-56.15	-58.14	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-55.43	-53.56	-53.64	-54.76	-46.02	-7.5
		6.2 GHz to 18 GHz	-54.42	-54.61	-54.55	-54.68	-46.02	-8.4
		18 GHz to 40 GHz	-52.89	-52.76	-52.25	-52.74	-46.02	-6.2
High	0	30 MHz to 3530 MHz	-56.67	-56.10	-55.23	-55.34	-46.02	-9.2
		3.72 GHz to 6.2 GHz	-54.45	-53.94	-54.12	-54.96	-46.02	-7.9
		6.2 GHz to 18 GHz	-54.65	-55.12	-54.92	-54.79	-46.02	-8.6
		18 GHz to 40 GHz	-51.99	-52.14	-51.85	-52.37	-46.02	-5.8
	1	30 MHz to 3530 MHz	-56.09	-56.52	-56.72	-56.85	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-53.06	-53.44	-53.02	-54.16	-46.02	-7.0
		6.2 GHz to 18 GHz	-54.03	-54.33	-53.35	-54.42	-46.02	-7.3
		18 GHz to 40 GHz	-52.47	-52.56	-52.70	-52.51	-46.02	-6.5
	2	30 MHz to 3530 MHz	-56.50	-55.32	-56.38	-55.45	-46.02	-9.3
		3.72 GHz to 6.2 GHz	-52.83	-52.46	-53.54	-53.81	-46.02	-6.4
		6.2 GHz to 18 GHz	-54.79	-54.98	-55.05	-54.70	-46.02	-8.7
		18 GHz to 40 GHz	-52.26	-51.65	-52.68	-52.66	-46.02	-5.6
	3	30 MHz to 3530 MHz	-56.58	-57.27	-57.29	-57.69	-46.02	-10.6
		3.72 GHz to 6.2 GHz	-55.53	-55.62	-54.38	-55.24	-46.02	-8.4
		6.2 GHz to 18 GHz	-54.46	-54.01	-54.13	-53.87	-46.02	-7.9
		18 GHz to 40 GHz	-52.32	-52.80	-52.62	-52.90	-46.02	-6.3

Table 8-65. Conducted Spurious Emission Summary Data (NR_n48_2C_10M+20M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 134 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	30 MHz to 3530 MHz	-56.64	-56.47	-56.29	-56.57	-46.02	-10.3
		3.72 GHz to 6.2 GHz	-53.83	-53.60	-53.31	-53.69	-46.02	-7.3
		6.2 GHz to 18 GHz	-54.68	-52.99	-54.78	-55.33	-46.02	-7.0
		18 GHz to 40 GHz	-52.54	-52.89	-52.41	-52.59	-46.02	-6.4
	1	30 MHz to 3530 MHz	-56.46	-56.32	-56.03	-56.02	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-53.99	-52.31	-53.20	-54.33	-46.02	-6.3
		6.2 GHz to 18 GHz	-54.11	-54.24	-54.70	-54.25	-46.02	-8.1
		18 GHz to 40 GHz	-52.96	-52.70	-53.17	-53.16	-46.02	-6.7
	2	30 MHz to 3530 MHz	-56.72	-56.48	-56.72	-56.14	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-54.16	-54.06	-54.04	-53.07	-46.02	-7.0
		6.2 GHz to 18 GHz	-55.28	-55.57	-54.55	-54.58	-46.02	-8.5
		18 GHz to 40 GHz	-53.00	-53.04	-52.56	-52.06	-46.02	-6.0
	3	30 MHz to 3530 MHz	-56.89	-57.19	-57.43	-57.43	-46.02	-10.9
		3.72 GHz to 6.2 GHz	-54.83	-54.48	-54.03	-55.06	-46.02	-8.0
		6.2 GHz to 18 GHz	-53.30	-54.03	-54.49	-53.81	-46.02	-7.3
		18 GHz to 40 GHz	-52.83	-52.72	-52.70	-52.69	-46.02	-6.7

Table 8-66. Conducted Spurious Emission Summary Data (NR_n48_2C_10M+20M_Non-Contiguous)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 135 of 175

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-55.72	-56.10	-56.75	-56.62	-46.02	-9.7
		3.72 GHz to 6.2 GHz	-52.78	-54.09	-54.48	-54.38	-46.02	-6.8
		6.2 GHz to 18 GHz	-55.24	-55.54	-55.27	-55.33	-46.02	-9.2
		18 GHz to 40 GHz	-52.67	-52.50	-51.90	-51.82	-46.02	-5.8
	1	30 MHz to 3530 MHz	-56.26	-56.14	-55.76	-56.14	-46.02	-9.7
		3.72 GHz to 6.2 GHz	-53.86	-53.76	-53.71	-54.04	-46.02	-7.7
		6.2 GHz to 18 GHz	-54.63	-53.34	-53.15	-54.33	-46.02	-7.1
		18 GHz to 40 GHz	-53.07	-53.06	-51.97	-52.84	-46.02	-5.9
	2	30 MHz to 3530 MHz	-56.79	-57.09	-56.13	-56.95	-46.02	-10.1
		3.72 GHz to 6.2 GHz	-53.80	-53.98	-54.07	-54.31	-46.02	-7.8
		6.2 GHz to 18 GHz	-54.67	-55.56	-55.28	-55.56	-46.02	-8.6
		18 GHz to 40 GHz	-51.95	-52.58	-51.83	-52.05	-46.02	-5.8
	3	30 MHz to 3530 MHz	-56.92	-57.66	-56.48	-57.65	-46.02	-10.5
		3.72 GHz to 6.2 GHz	-55.46	-53.82	-55.52	-54.32	-46.02	-7.8
		6.2 GHz to 18 GHz	-54.26	-54.38	-54.24	-54.62	-46.02	-8.2
		18 GHz to 40 GHz	-52.55	-52.61	-52.89	-53.16	-46.02	-6.5
Middle	0	30 MHz to 3530 MHz	-55.47	-56.11	-56.45	-55.64	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-54.05	-53.54	-54.48	-54.56	-46.02	-7.5
		6.2 GHz to 18 GHz	-55.15	-55.37	-55.48	-55.62	-46.02	-9.1
		18 GHz to 40 GHz	-52.32	-52.17	-51.97	-52.36	-46.02	-5.9
	1	30 MHz to 3530 MHz	-55.89	-55.11	-56.21	-56.12	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-54.00	-54.60	-53.05	-53.43	-46.02	-7.0
		6.2 GHz to 18 GHz	-54.19	-53.83	-54.35	-54.75	-46.02	-7.8
		18 GHz to 40 GHz	-52.76	-53.03	-52.30	-52.74	-46.02	-6.3
	2	30 MHz to 3530 MHz	-55.84	-56.42	-55.74	-56.42	-46.02	-9.7
		3.72 GHz to 6.2 GHz	-54.10	-54.35	-54.09	-54.07	-46.02	-8.0
		6.2 GHz to 18 GHz	-55.67	-54.77	-53.05	-55.04	-46.02	-7.0
		18 GHz to 40 GHz	-52.11	-51.73	-52.26	-52.34	-46.02	-5.7
	3	30 MHz to 3530 MHz	-56.19	-56.74	-56.79	-57.98	-46.02	-10.2
		3.72 GHz to 6.2 GHz	-53.70	-55.21	-54.50	-54.77	-46.02	-7.7
		6.2 GHz to 18 GHz	-53.55	-53.62	-53.56	-54.35	-46.02	-7.5
		18 GHz to 40 GHz	-52.69	-52.51	-52.33	-52.76	-46.02	-6.3
High	0	30 MHz to 3530 MHz	-56.53	-56.05	-55.92	-56.82	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-54.04	-54.32	-53.83	-52.96	-46.02	-6.9
		6.2 GHz to 18 GHz	-55.34	-55.38	-54.92	-54.74	-46.02	-8.7
		18 GHz to 40 GHz	-52.82	-51.93	-52.11	-51.89	-46.02	-5.9
	1	30 MHz to 3530 MHz	-55.50	-55.75	-56.13	-56.10	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-53.52	-53.33	-54.27	-53.02	-46.02	-7.0
		6.2 GHz to 18 GHz	-54.66	-53.71	-54.19	-53.49	-46.02	-7.5
		18 GHz to 40 GHz	-52.97	-53.02	-52.54	-52.10	-46.02	-6.1
	2	30 MHz to 3530 MHz	-56.56	-56.41	-55.85	-56.37	-46.02	-9.8
		3.72 GHz to 6.2 GHz	-54.17	-53.83	-53.24	-54.68	-46.02	-7.2
		6.2 GHz to 18 GHz	-55.64	-54.00	-55.19	-54.95	-46.02	-8.0
		18 GHz to 40 GHz	-52.55	-52.69	-52.36	-52.41	-46.02	-6.3
	3	30 MHz to 3530 MHz	-56.80	-56.46	-57.45	-56.74	-46.02	-10.4
		3.72 GHz to 6.2 GHz	-54.67	-55.28	-54.14	-54.74	-46.02	-8.1
		6.2 GHz to 18 GHz	-54.61	-54.06	-54.55	-54.58	-46.02	-8.0
		18 GHz to 40 GHz	-52.19	-52.86	-52.78	-51.86	-46.02	-5.8

Table 8-67. Conducted Spurious Emission Summary Data (NR_n48_2C_20M+20M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 136 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	30 MHz to 3530 MHz	-55.78	-55.26	-55.53	-56.35	-46.02	-9.2
		3.72 GHz to 6.2 GHz	-54.08	-54.12	-53.25	-54.50	-46.02	-7.2
		6.2 GHz to 18 GHz	-54.72	-54.91	-55.32	-54.58	-46.02	-8.6
		18 GHz to 40 GHz	-52.12	-52.22	-52.38	-52.60	-46.02	-6.1
	1	30 MHz to 3530 MHz	-56.11	-55.78	-56.45	-56.20	-46.02	-9.8
		3.72 GHz to 6.2 GHz	-52.50	-54.29	-53.13	-54.07	-46.02	-6.5
		6.2 GHz to 18 GHz	-54.01	-54.14	-54.11	-54.31	-46.02	-8.0
		18 GHz to 40 GHz	-52.97	-52.47	-52.48	-52.80	-46.02	-6.4
	2	30 MHz to 3530 MHz	-55.87	-56.03	-56.59	-56.95	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-54.61	-54.71	-53.09	-53.60	-46.02	-7.1
		6.2 GHz to 18 GHz	-55.52	-54.56	-55.15	-55.58	-46.02	-8.5
		18 GHz to 40 GHz	-52.36	-52.30	-52.42	-52.05	-46.02	-6.0
	3	30 MHz to 3530 MHz	-57.53	-57.19	-56.79	-56.90	-46.02	-10.8
		3.72 GHz to 6.2 GHz	-55.57	-54.57	-53.26	-55.59	-46.02	-7.2
		6.2 GHz to 18 GHz	-53.55	-53.57	-53.73	-54.08	-46.02	-7.5
		18 GHz to 40 GHz	-52.85	-52.22	-52.85	-52.29	-46.02	-6.2

Table 8-68. Conducted Spurious Emission Summary Data (NR_n48_2C_20M+20M_Non-Contiguous)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 137 of 175

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-55.77	-56.53	-56.59	-56.98	-46.02	-9.8
		3.72 GHz to 6.2 GHz	-54.59	-53.01	-53.30	-53.55	-46.02	-7.0
		6.2 GHz to 18 GHz	-55.19	-55.16	-54.70	-55.00	-46.02	-8.7
		18 GHz to 40 GHz	-52.80	-51.84	-52.53	-51.92	-46.02	-5.8
	1	30 MHz to 3530 MHz	-56.70	-56.65	-55.40	-56.06	-46.02	-9.4
		3.72 GHz to 6.2 GHz	-53.71	-53.39	-53.63	-53.04	-46.02	-7.0
		6.2 GHz to 18 GHz	-53.80	-54.75	-54.24	-53.19	-46.02	-7.2
		18 GHz to 40 GHz	-52.91	-52.87	-53.05	-52.89	-46.02	-6.9
	2	30 MHz to 3530 MHz	-56.46	-56.09	-56.46	-56.07	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-54.39	-53.71	-53.89	-54.58	-46.02	-7.7
		6.2 GHz to 18 GHz	-55.41	-55.01	-54.12	-56.06	-46.02	-8.1
		18 GHz to 40 GHz	-52.55	-52.36	-51.90	-52.46	-46.02	-5.9
	3	30 MHz to 3530 MHz	-57.98	-57.60	-57.07	-56.93	-46.02	-10.9
		3.72 GHz to 6.2 GHz	-55.04	-55.04	-55.28	-54.54	-46.02	-8.5
		6.2 GHz to 18 GHz	-53.59	-53.87	-53.71	-54.80	-46.02	-7.6
		18 GHz to 40 GHz	-52.27	-52.13	-52.79	-52.83	-46.02	-6.1
Middle	0	30 MHz to 3530 MHz	-56.40	-56.55	-55.98	-57.02	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-53.80	-54.26	-53.24	-54.41	-46.02	-7.2
		6.2 GHz to 18 GHz	-55.23	-55.94	-55.02	-55.69	-46.02	-9.0
		18 GHz to 40 GHz	-52.01	-52.06	-51.34	-52.58	-46.02	-5.3
	1	30 MHz to 3530 MHz	-56.36	-56.81	-56.88	-56.69	-46.02	-10.3
		3.72 GHz to 6.2 GHz	-54.10	-53.90	-53.41	-53.24	-46.02	-7.2
		6.2 GHz to 18 GHz	-53.88	-54.05	-53.34	-53.98	-46.02	-7.3
		18 GHz to 40 GHz	-52.89	-52.84	-52.59	-53.04	-46.02	-6.6
	2	30 MHz to 3530 MHz	-56.81	-56.86	-56.12	-55.89	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-54.55	-54.19	-53.43	-54.70	-46.02	-7.4
		6.2 GHz to 18 GHz	-55.57	-54.91	-54.57	-55.31	-46.02	-8.6
		18 GHz to 40 GHz	-52.35	-52.44	-52.60	-52.34	-46.02	-6.3
	3	30 MHz to 3530 MHz	-56.96	-57.72	-57.03	-57.65	-46.02	-10.9
		3.72 GHz to 6.2 GHz	-55.34	-55.88	-54.37	-55.54	-46.02	-8.3
		6.2 GHz to 18 GHz	-54.76	-54.17	-53.53	-53.80	-46.02	-7.5
		18 GHz to 40 GHz	-52.47	-52.46	-52.61	-52.45	-46.02	-6.4
High	0	30 MHz to 3530 MHz	-56.40	-57.02	-57.19	-56.39	-46.02	-10.4
		3.72 GHz to 6.2 GHz	-53.08	-54.02	-53.53	-54.18	-46.02	-7.1
		6.2 GHz to 18 GHz	-54.97	-55.27	-54.90	-55.32	-46.02	-8.9
		18 GHz to 40 GHz	-52.32	-52.55	-52.39	-52.12	-46.02	-6.1
	1	30 MHz to 3530 MHz	-55.50	-56.09	-56.42	-56.10	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-52.63	-53.47	-54.28	-54.27	-46.02	-6.6
		6.2 GHz to 18 GHz	-54.43	-53.37	-54.20	-53.96	-46.02	-7.3
		18 GHz to 40 GHz	-52.59	-52.74	-52.71	-52.48	-46.02	-6.5
	2	30 MHz to 3530 MHz	-56.68	-56.02	-56.85	-56.18	-46.02	-10.0
		3.72 GHz to 6.2 GHz	-54.72	-54.70	-53.15	-53.47	-46.02	-7.1
		6.2 GHz to 18 GHz	-54.42	-55.46	-55.70	-55.23	-46.02	-8.4
		18 GHz to 40 GHz	-52.56	-52.40	-52.39	-52.71	-46.02	-6.4
	3	30 MHz to 3530 MHz	-57.57	-57.26	-57.50	-56.95	-46.02	-10.9
		3.72 GHz to 6.2 GHz	-54.57	-54.83	-55.32	-54.77	-46.02	-8.5
		6.2 GHz to 18 GHz	-54.07	-53.61	-54.19	-54.37	-46.02	-7.6
		18 GHz to 40 GHz	-52.41	-52.70	-53.23	-52.23	-46.02	-6.2

Table 8-69. Conducted Spurious Emission Summary Data (NR_n48_2C_40M+40M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 138 of 175	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Middle	0	30 MHz to 3530 MHz	-56.50	-56.64	-55.68	-55.62	-46.02	-9.6
		3.72 GHz to 6.2 GHz	-53.64	-52.76	-52.81	-53.16	-46.02	-6.7
		6.2 GHz to 18 GHz	-54.77	-54.97	-54.60	-54.12	-46.02	-8.1
		18 GHz to 40 GHz	-52.61	-51.87	-52.66	-52.38	-46.02	-5.9
	1	30 MHz to 3530 MHz	-55.49	-55.28	-55.85	-55.79	-46.02	-9.3
		3.72 GHz to 6.2 GHz	-53.38	-52.79	-53.79	-54.09	-46.02	-6.8
		6.2 GHz to 18 GHz	-53.61	-53.96	-53.28	-53.57	-46.02	-7.3
		18 GHz to 40 GHz	-52.49	-52.60	-53.09	-52.78	-46.02	-6.5
	2	30 MHz to 3530 MHz	-56.15	-56.36	-56.53	-55.10	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-54.41	-54.06	-53.83	-53.64	-46.02	-7.6
		6.2 GHz to 18 GHz	-54.99	-55.60	-55.20	-55.59	-46.02	-9.0
		18 GHz to 40 GHz	-52.12	-52.49	-52.55	-52.13	-46.02	-6.1
	3	30 MHz to 3530 MHz	-57.34	-56.77	-55.49	-57.33	-46.02	-9.5
		3.72 GHz to 6.2 GHz	-54.98	-54.14	-53.60	-54.13	-46.02	-7.6
		6.2 GHz to 18 GHz	-53.82	-54.17	-54.48	-53.35	-46.02	-7.3
		18 GHz to 40 GHz	-52.89	-52.73	-52.91	-53.11	-46.02	-6.7

Table 8-70. Conducted Spurious Emission Summary Data (NR_n48_2C_40M+40M_Non-Contiguous)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 139 of 175

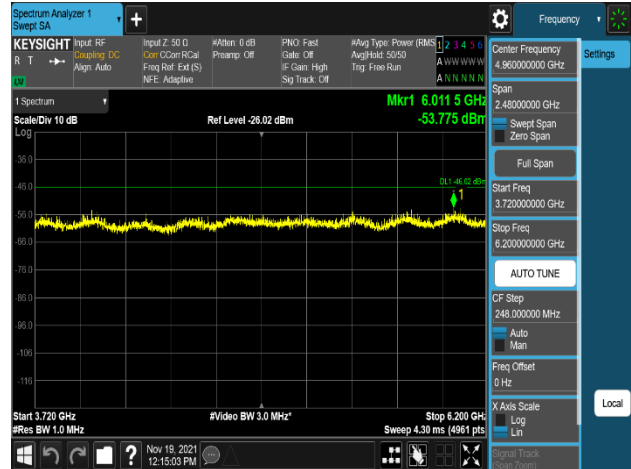
Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	30 MHz to 3530 MHz	-48.75	-49.61	-48.91	-49.21	-46.02	-2.7
		3.72 GHz to 6.2 GHz	-53.75	-52.91	-53.73	-53.99	-46.02	-6.9
		6.2 GHz to 18 GHz	-51.07	-52.44	-52.79	-52.76	-46.02	-5.1
		18 GHz to 40 GHz	-51.22	-50.43	-50.71	-50.47	-46.02	-4.4
	1	30 MHz to 3530 MHz	-51.89	-52.96	-52.14	-51.68	-46.02	-5.7
		3.72 GHz to 6.2 GHz	-53.40	-53.68	-52.72	-53.00	-46.02	-6.7
		6.2 GHz to 18 GHz	-50.77	-50.51	-51.08	-49.96	-46.02	-3.9
		18 GHz to 40 GHz	-50.13	-49.61	-49.31	-50.07	-46.02	-3.3
	2	30 MHz to 3530 MHz	-49.25	-49.36	-48.85	-48.77	-46.02	-2.7
		3.72 GHz to 6.2 GHz	-53.18	-53.56	-51.96	-53.70	-46.02	-5.9
		6.2 GHz to 18 GHz	-51.68	-51.35	-54.88	-50.41	-46.02	-4.4
		18 GHz to 40 GHz	-50.95	-49.85	-50.55	-49.91	-46.02	-3.8
	3	30 MHz to 3530 MHz	-50.25	-49.54	-49.02	-48.93	-46.02	-2.9
		3.72 GHz to 6.2 GHz	-53.75	-53.28	-53.78	-53.36	-46.02	-7.3
		6.2 GHz to 18 GHz	-51.45	-51.62	-51.52	-51.82	-46.02	-5.4
		18 GHz to 40 GHz	-49.91	-49.62	-50.20	-49.99	-46.02	-3.6
Middle	0	30 MHz to 3530 MHz	-55.94	-56.49	-56.18	-56.07	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.79	-53.52	-53.91	-53.83	-46.02	-7.5
		6.2 GHz to 18 GHz	-51.91	-50.86	-51.95	-52.83	-46.02	-4.8
		18 GHz to 40 GHz	-50.10	-50.64	-50.22	-50.11	-46.02	-4.1
	1	30 MHz to 3530 MHz	-55.89	-54.37	-54.98	-55.49	-46.02	-8.3
		3.72 GHz to 6.2 GHz	-53.39	-53.37	-53.11	-53.12	-46.02	-7.1
		6.2 GHz to 18 GHz	-51.34	-51.74	-50.69	-50.92	-46.02	-4.7
		18 GHz to 40 GHz	-49.61	-48.85	-50.28	-49.99	-46.02	-2.8
	2	30 MHz to 3530 MHz	-55.34	-55.63	-55.37	-53.61	-46.02	-7.6
		3.72 GHz to 6.2 GHz	-53.61	-53.16	-53.66	-52.50	-46.02	-6.5
		6.2 GHz to 18 GHz	-50.33	-51.30	-52.03	-51.99	-46.02	-4.3
		18 GHz to 40 GHz	-49.85	-50.40	-49.77	-50.08	-46.02	-3.8
	3	30 MHz to 3530 MHz	-55.89	-55.67	-55.27	-56.00	-46.02	-9.2
		3.72 GHz to 6.2 GHz	-53.46	-52.86	-52.34	-53.14	-46.02	-6.3
		6.2 GHz to 18 GHz	-51.31	-51.54	-52.18	-52.27	-46.02	-5.3
		18 GHz to 40 GHz	-49.83	-49.56	-47.09	-49.86	-46.02	-1.1
High	0	30 MHz to 3530 MHz	-56.39	-55.91	-56.03	-56.54	-46.02	-9.9
		3.72 GHz to 6.2 GHz	-53.75	-53.91	-54.26	-54.16	-46.02	-7.7
		6.2 GHz to 18 GHz	-52.18	-52.21	-51.87	-52.62	-46.02	-5.8
		18 GHz to 40 GHz	-50.97	-50.95	-50.71	-49.97	-46.02	-3.9
	1	30 MHz to 3530 MHz	-55.35	-55.08	-55.15	-55.28	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-52.80	-53.05	-52.91	-53.15	-46.02	-6.8
		6.2 GHz to 18 GHz	-51.04	-50.25	-49.79	-50.10	-46.02	-3.8
		18 GHz to 40 GHz	-49.74	-50.34	-49.42	-50.21	-46.02	-3.4
	2	30 MHz to 3530 MHz	-55.07	-54.17	-55.04	-54.98	-46.02	-8.2
		3.72 GHz to 6.2 GHz	-53.17	-52.65	-53.29	-52.34	-46.02	-6.3
		6.2 GHz to 18 GHz	-51.43	-51.30	-50.52	-50.46	-46.02	-4.4
		18 GHz to 40 GHz	-49.72	-50.43	-50.16	-48.81	-46.02	-2.8
	3	30 MHz to 3530 MHz	-55.10	-55.83	-55.92	-55.85	-46.02	-9.1
		3.72 GHz to 6.2 GHz	-53.49	-53.29	-52.59	-53.74	-46.02	-6.6
		6.2 GHz to 18 GHz	-51.49	-50.94	-51.15	-51.53	-46.02	-4.9
		18 GHz to 40 GHz	-50.17	-49.96	-49.78	-49.67	-46.02	-3.7

Table 8-71. Conducted Spurious Emission Summary Data (LTE_B48_2C + NR_n48_1C_20M+20M+40M)

FCC: A3LRT4401-48A	 MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)	Page 140 of 175	



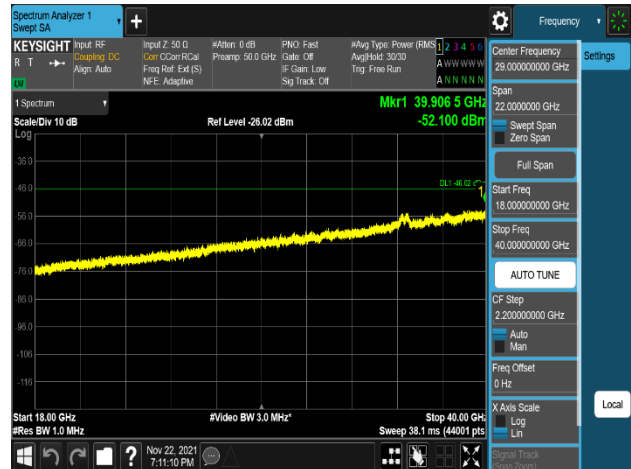
Plot 8-256. Conducted Spurious Emission Plot
30 MHz to 3530 MHz
(NR_n48_1C_10M_16QAM - High Channel, Port 2)



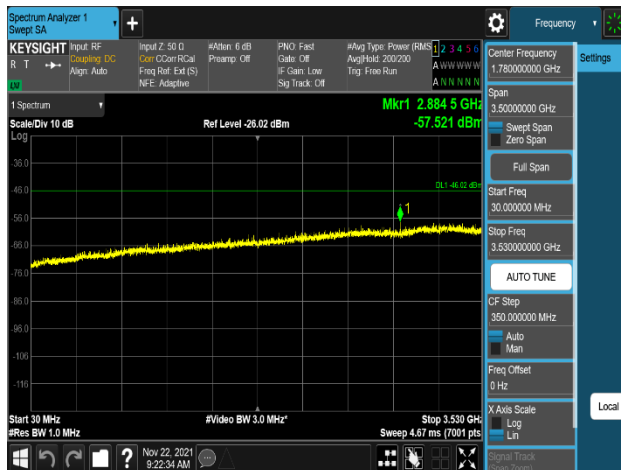
Plot 8-257. Conducted Spurious Emission Plot
3.72 GHz to 6.2 GHz
(NR_n48_1C_10M_16QAM - High Channel, Port 2)



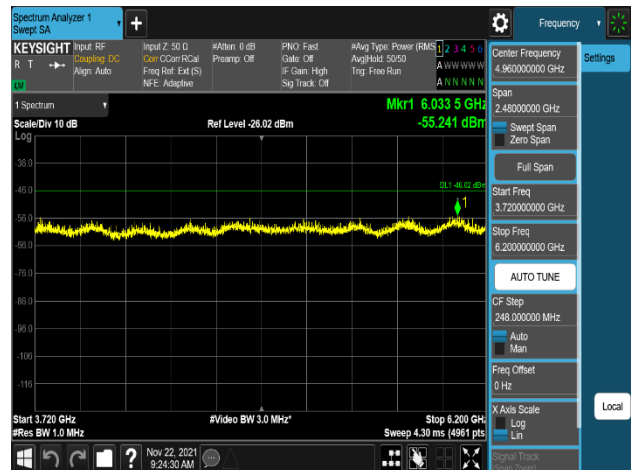
Plot 8-258. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(NR_n48_1C_10M_16QAM - High Channel, Port 2)



Plot 8-259. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(NR_n48_1C_10M_16QAM - High Channel, Port 2)

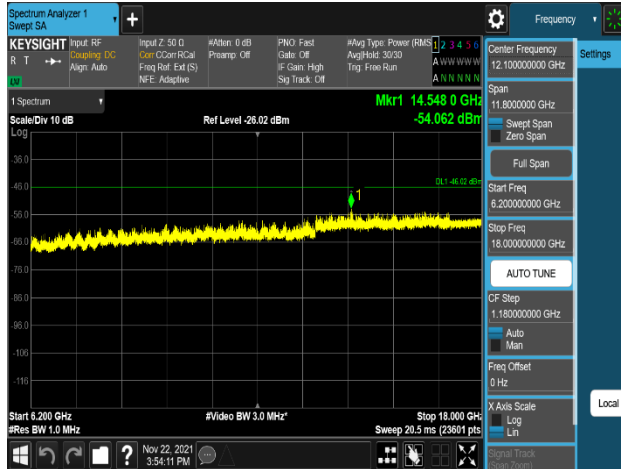


Plot 8-260. Conducted Spurious Emission Plot
30 MHz to 3530 MHz
(NR_n48_1C_20M_16QAM - Low Channel, Port 3)

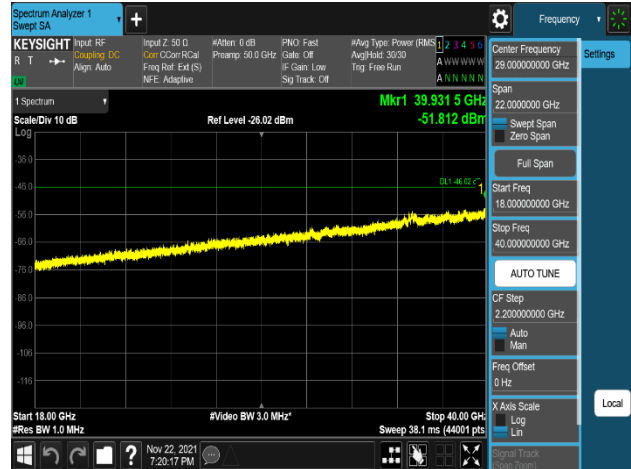


Plot 8-261. Conducted Spurious Emission Plot
3.72 GHz to 6.2 GHz
(NR_n48_1C_20M_16QAM - Low Channel, Port 3)

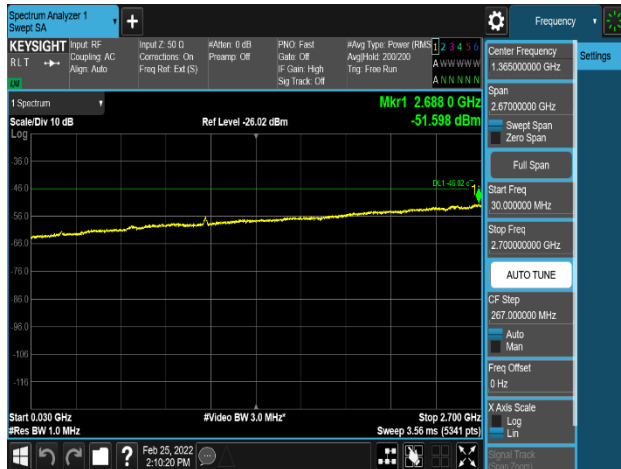
FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 141 of 175



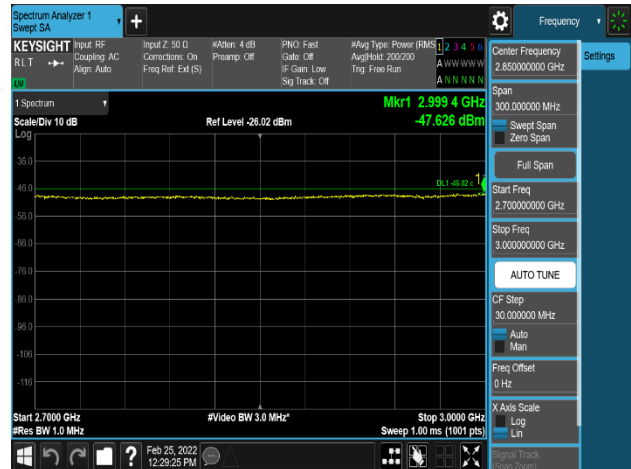
Plot 8-262. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(NR_n48_1C_20M_16QAM - Low Channel, Port 3)



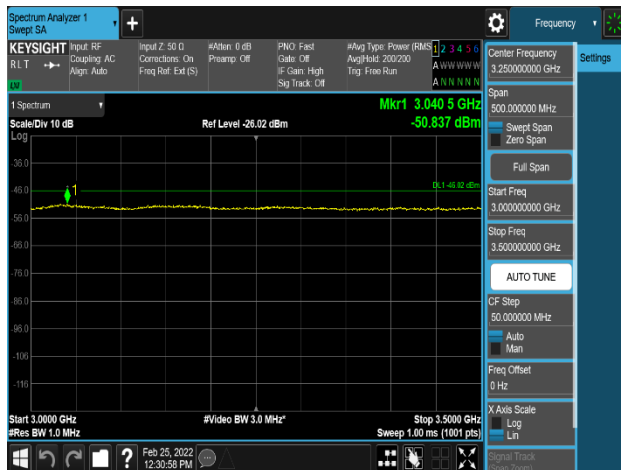
Plot 8-263. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(NR_n48_1C_20M_16QAM - Low Channel, Port 3)



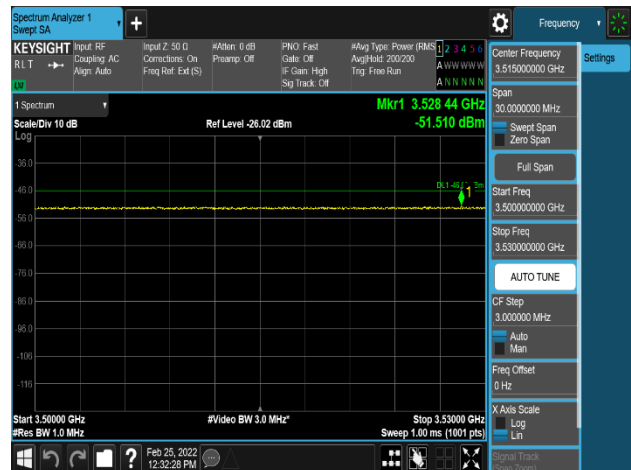
Plot 8-264. Conducted Spurious Emission Plot
30 MHz to 2700 MHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)



Plot 8-265. Conducted Spurious Emission Plot
2700 MHz to 3000 MHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)

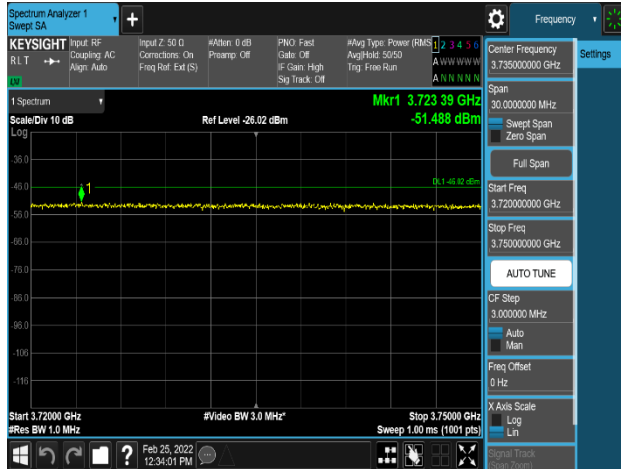


Plot 8-266. Conducted Spurious Emission Plot
3000 MHz to 3500 MHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)

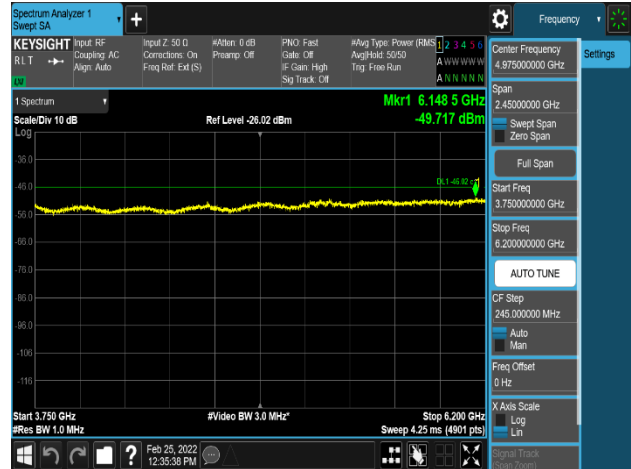


Plot 8-267. Conducted Spurious Emission Plot
3500 MHz to 3530 MHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)

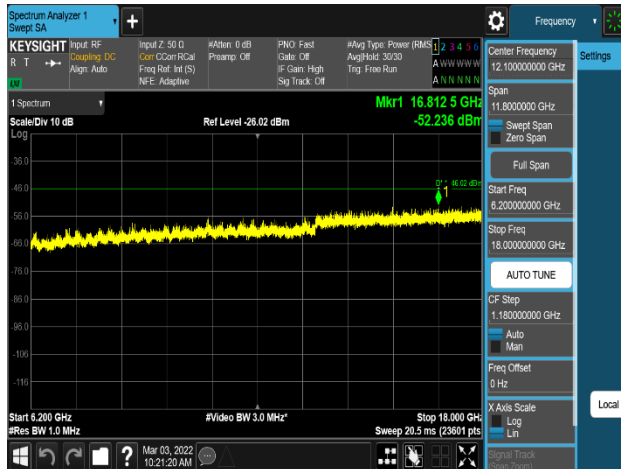
FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 142 of 175



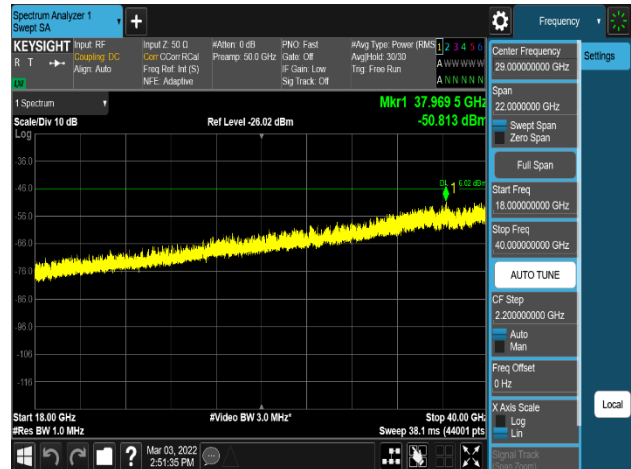
Plot 8-268. Conducted Spurious Emission Plot
3720 MHz to 3750 MHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)



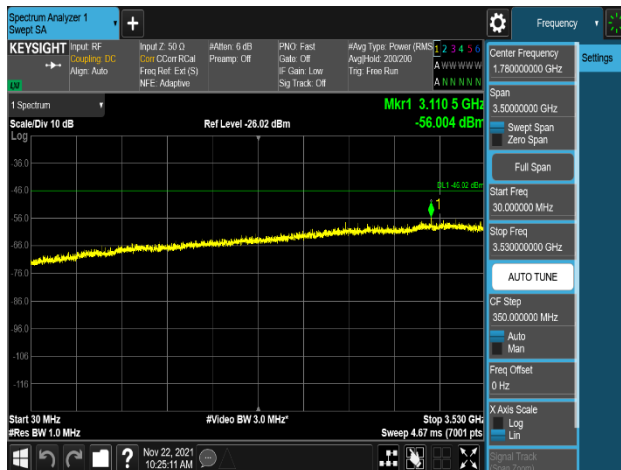
Plot 8-269. Conducted Spurious Emission Plot
3750 MHz to 6200 MHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)



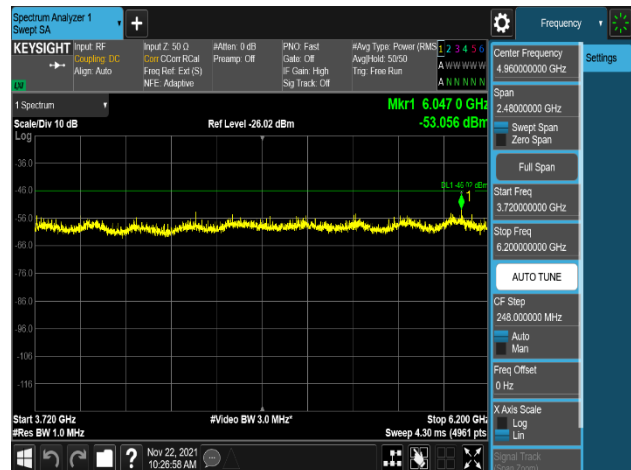
Plot 8-270. Conducted Spurious Emission Plot
6200 MHz to 18 GHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)



Plot 8-271. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(NR_n48_1C_30M_256QAM - Mid Channel, Port 2)

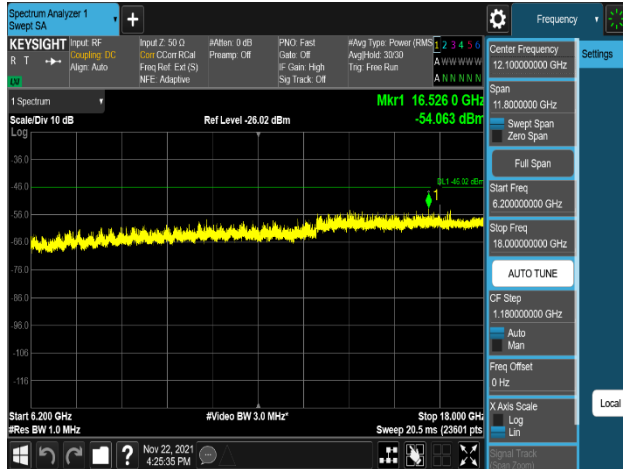


Plot 8-272. Conducted Spurious Emission Plot
30 MHz to 3530 MHz
(NR_n48_1C_40M_16QAM - Mid Channel, Port 1)

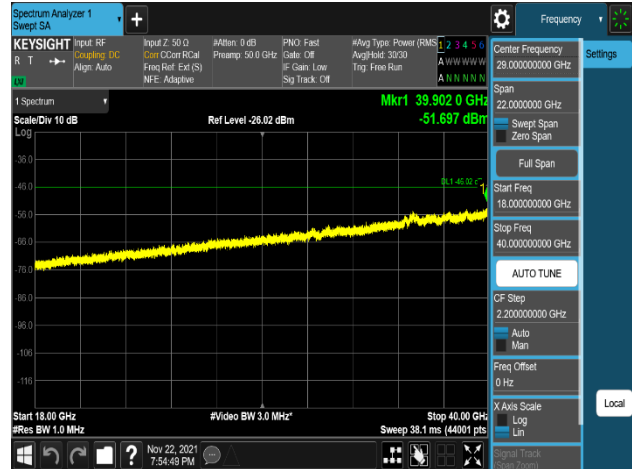


Plot 8-273. Conducted Spurious Emission Plot
3.72 GHz to 6.2 GHz
(NR_n48_1C_40M_16QAM - Mid Channel, Port 1)

FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 143 of 175



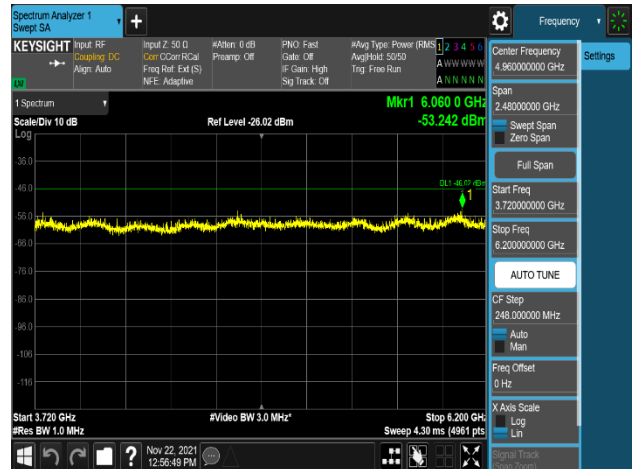
Plot 8-274. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(NR_n48_1C_40M_16QAM - Mid Channel, Port 1))



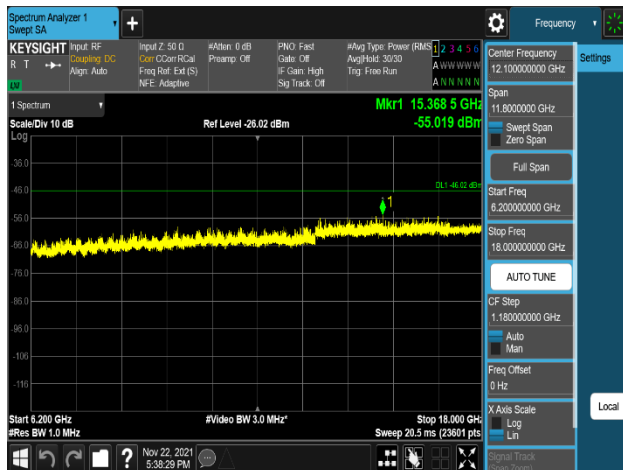
Plot 8-275. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(NR_n48_1C_40M_16QAM - Mid Channel, Port 1)



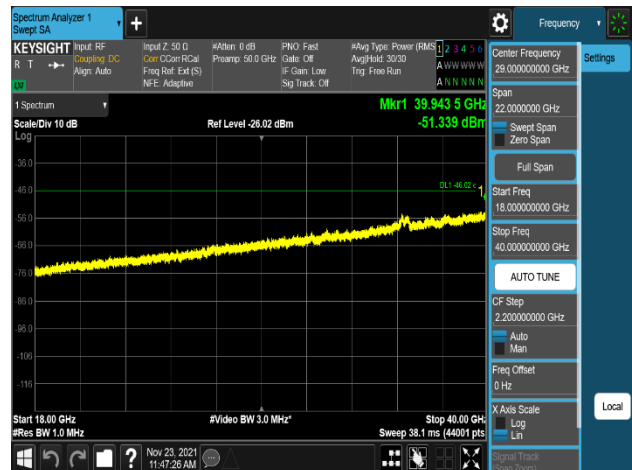
Plot 8-276. Conducted Spurious Emission Plot
30 MHz to 3530 MHz
(NR_n48_2C_40M+40M_64QAM - Mid Channel, Port 0)



Plot 8-277. Conducted Spurious Emission Plot
3.72 GHz to 6.2 GHz
(NR_n48_2C_40M+40M_64QAM - Mid Channel, Port 0)



Plot 8-278. Conducted Spurious Emission Plot
6.2 GHz to 18 GHz
(NR_n48_2C_40M+40M_64QAM - Mid Channel, Port 0)



Plot 8-279. Conducted Spurious Emission Plot
18 GHz to 40 GHz
(NR_n48_2C_40M+40M_64QAM - Mid Channel, Port 0)

FCC: A3LRT4401-48A	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (Class II Permissive Change)	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21101307-R3.A3L	Test Dates: 10/15/2021 – 03/04/2022	EUT Type: RRU(RT4401)		Page 144 of 175