

FCC ID: A3LRF4402-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22032101-00-R1.A3L	Test Dates: 03/25/2022 - 05/03/2022	EUT Type: RRU(RF4402d)	Page 149 of 225	

8.6 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

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

a) Absolute Emission Limits

iii) Measure and add $10 \log(N_{ANT})$ dB

ANSI C63.26-2015 – Section 5.7



Test Setting

1. Start frequency was set to 9 kHz and stop frequency was set to at least $10 \times$ the fundamental frequency excluding the frequency range of the band edge measurement.
2. RBW: Please see test notes below.
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

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm.

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Test Setup

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

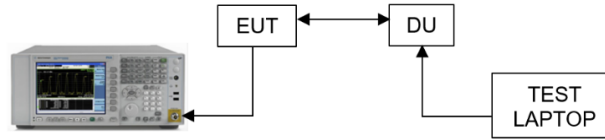




Figure 8-6. Test Instrument & Measurement Setup

Test Notes



- Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- All the measurement has been tested but test plots are referred from the highest of value of each of modulation of each antenna ports.
- The limits were adjusted by a factor of $[-10 \cdot \log(4)]$ 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 = $10 \cdot \log(4) = 6.02$ dB
- Narrower RBW parameter is applied according to Section 5.7 of ANSI C63.26-2015 for some edge channels due to improving measurement accuracy. RBW Factor calculation as below:
RBW Factor = $10 \cdot \log(1/0.1) = 10$ dB for below 1GHz measurement range.

Frequency range	Basic Limit (dBm/MHz)	MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
9 kHz to 150 kHz	-13	6.02	30	-49.02
150 kHz to 30 MHz	-13	6.02	20	-39.02
30 MHz to 1 GHz	-13	6.02	10	-29.02
1 GHz to 22 GHz	-13	6.02	0	-19.02

Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor



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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-52.45	-53.74	-53.67	-53.85	-49.02	-3.43
		150 kHz to 30 MHz	-44.92	-44.72	-45.91	-46.16	-39.02	-5.70
		30 MHz to 1 GHz	-47.20	-47.67	-47.14	-47.51	-29.02	-18.12
		1 GHz to 1.928 GHz	-23.27	-23.51	-21.08	-21.14	-19.02	-2.06
		1.992 MHz to 6 GHz	-25.51	-27.40	-27.24	-27.78	-19.02	-6.49
		6 GHz to 18 GHz	-28.84	-28.55	-28.14	-28.76	-19.02	-9.12
		18 GHz to 22 GHz	-30.92	-30.28	-30.22	-30.92	-19.02	-11.20
	1	9 kHz to 150 kHz	-53.43	-53.47	-53.40	-52.75	-49.02	-3.73
		150 kHz to 30 MHz	-43.47	-43.83	-44.91	-44.53	-39.02	-4.45
		30 MHz to 1 GHz	-46.74	-47.76	-46.86	-46.53	-29.02	-17.51
		1 GHz to 1.928 GHz	-22.91	-20.87	-21.27	-20.53	-19.02	-1.51
		1.992 MHz to 6 GHz	-26.72	-27.85	-27.12	-26.93	-19.02	-7.70
		6 GHz to 18 GHz	-28.45	-28.87	-28.83	-29.22	-19.02	-9.43
		18 GHz to 22 GHz	-30.37	-29.96	-30.89	-30.53	-19.02	-10.94
	2	9 kHz to 150 kHz	-53.34	-53.71	-53.64	-53.74	-49.02	-4.32
		150 kHz to 30 MHz	-44.19	-44.77	-45.97	-45.05	-39.02	-5.17
		30 MHz to 1 GHz	-46.46	-47.86	-47.10	-47.51	-29.02	-17.44
		1 GHz to 1.928 GHz	-22.46	-22.01	-21.69	-20.76	-19.02	-1.74
		1.992 MHz to 6 GHz	-27.11	-27.64	-26.91	-27.32	-19.02	-7.89
		6 GHz to 18 GHz	-28.07	-27.83	-28.77	-28.68	-19.02	-8.81
		18 GHz to 22 GHz	-30.32	-31.47	-30.57	-30.41	-19.02	-11.30
	3	9 kHz to 150 kHz	-53.16	-52.78	-54.30	-52.95	-49.02	-3.76
		150 kHz to 30 MHz	-44.70	-44.67	-44.59	-44.96	-39.02	-5.57
		30 MHz to 1 GHz	-47.08	-46.38	-46.48	-46.99	-29.02	-17.36
1 GHz to 1.928 GHz		-21.22	-23.08	-20.99	-20.15	-19.02	-1.13	
1.992 MHz to 6 GHz		-27.22	-27.43	-27.43	-27.15	-19.02	-8.13	
6 GHz to 18 GHz		-27.97	-29.31	-29.14	-27.62	-19.02	-8.60	
18 GHz to 22 GHz		-30.16	-30.50	-30.96	-30.68	-19.02	-11.14	
Middle	0	9 kHz to 150 kHz	-52.55	-53.48	-52.76	-52.55	-49.02	-3.53
		150 kHz to 30 MHz	-45.56	-43.83	-45.47	-42.58	-39.02	-3.56
		30 MHz to 1 GHz	-46.80	-47.95	-47.09	-47.62	-29.02	-17.78
		1 GHz to 1.928 GHz	-33.67	-34.75	-33.59	-33.95	-19.02	-14.57
		1.992 MHz to 6 GHz	-26.45	-27.67	-27.00	-27.89	-19.02	-7.43
		6 GHz to 18 GHz	-28.01	-29.38	-28.80	-28.79	-19.02	-8.99
		18 GHz to 22 GHz	-30.00	-28.95	-30.74	-31.01	-19.02	-9.93
	1	9 kHz to 150 kHz	-53.54	-53.19	-52.85	-53.57	-49.02	-3.83
		150 kHz to 30 MHz	-46.28	-44.77	-45.33	-44.09	-39.02	-5.07
		30 MHz to 1 GHz	-47.46	-47.20	-46.30	-47.25	-29.02	-17.28
		1 GHz to 1.928 GHz	-34.23	-33.69	-33.27	-33.46	-19.02	-14.25
		1.992 MHz to 6 GHz	-27.04	-27.05	-27.37	-27.79	-19.02	-8.02
		6 GHz to 18 GHz	-29.07	-29.23	-29.30	-28.26	-19.02	-9.24
		18 GHz to 22 GHz	-30.08	-30.58	-30.32	-29.51	-19.02	-10.49



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	2	9 kHz to 150 kHz	-52.75	-53.22	-53.54	-53.02	-49.02	-3.73
		150 kHz to 30 MHz	-44.95	-44.87	-44.85	-44.42	-39.02	-5.40
		30 MHz to 1 GHz	-46.82	-47.65	-47.02	-47.62	-29.02	-17.80
		1 GHz to 1.928 GHz	-32.64	-32.18	-33.23	-33.28	-19.02	-13.16
		1.992 MHz to 6 GHz	-26.41	-27.82	-26.98	-26.21	-19.02	-7.19
		6 GHz to 18 GHz	-29.33	-29.03	-29.52	-28.83	-19.02	-9.81
		18 GHz to 22 GHz	-29.34	-29.77	-30.96	-29.99	-19.02	-10.32
	3	9 kHz to 150 kHz	-54.17	-53.90	-53.26	-53.64	-49.02	-4.24
		150 kHz to 30 MHz	-45.44	-44.80	-44.57	-43.76	-39.02	-4.74
		30 MHz to 1 GHz	-47.22	-47.06	-46.98	-46.66	-29.02	-17.64
		1 GHz to 1.928 GHz	-34.05	-34.03	-33.18	-33.50	-19.02	-14.16
		1.992 MHz to 6 GHz	-27.66	-27.37	-27.43	-27.82	-19.02	-8.35
		6 GHz to 18 GHz	-28.61	-27.97	-28.76	-29.29	-19.02	-8.95
		18 GHz to 22 GHz	-30.31	-30.81	-29.22	-30.26	-19.02	-10.20
High	0	9 kHz to 150 kHz	-52.91	-53.89	-53.71	-53.42	-49.02	-3.89
		150 kHz to 30 MHz	-46.85	-44.45	-45.54	-45.06	-39.02	-5.43
		30 MHz to 1 GHz	-46.99	-47.89	-48.14	-47.34	-29.02	-17.97
		1 GHz to 1.928 GHz	-35.36	-33.90	-36.36	-35.96	-19.02	-14.88
		1.992 MHz to 6 GHz	-22.41	-21.93	-20.91	-22.18	-19.02	-1.89
		6 GHz to 18 GHz	-29.62	-28.56	-29.53	-29.61	-19.02	-9.54
		18 GHz to 22 GHz	-30.36	-30.71	-31.30	-30.33	-19.02	-11.31
	1	9 kHz to 150 kHz	-52.93	-53.37	-53.55	-53.06	-49.02	-3.91
		150 kHz to 30 MHz	-45.89	-45.53	-45.45	-44.86	-39.02	-5.84
		30 MHz to 1 GHz	-47.85	-47.66	-47.81	-47.50	-29.02	-18.48
		1 GHz to 1.928 GHz	-35.25	-34.83	-35.89	-35.33	-19.02	-15.81
		1.992 MHz to 6 GHz	-21.31	-20.78	-20.27	-22.61	-19.02	-1.25
		6 GHz to 18 GHz	-28.58	-28.74	-28.99	-28.03	-19.02	-9.01
		18 GHz to 22 GHz	-30.15	-30.03	-30.76	-30.01	-19.02	-10.99
	2	9 kHz to 150 kHz	-53.84	-53.99	-53.26	-53.60	-49.02	-4.24
		150 kHz to 30 MHz	-45.09	-45.05	-44.87	-45.00	-39.02	-5.85
		30 MHz to 1 GHz	-46.57	-47.13	-47.08	-47.12	-29.02	-17.55
		1 GHz to 1.928 GHz	-34.25	-34.98	-34.55	-35.30	-19.02	-15.23
		1.992 MHz to 6 GHz	-21.93	-22.03	-22.68	-22.48	-19.02	-2.91
		6 GHz to 18 GHz	-29.48	-28.80	-28.98	-28.36	-19.02	-9.34
		18 GHz to 22 GHz	-28.99	-30.46	-30.51	-29.71	-19.02	-9.97
	3	9 kHz to 150 kHz	-53.32	-53.65	-52.96	-53.36	-49.02	-3.94
		150 kHz to 30 MHz	-45.23	-45.75	-44.32	-45.87	-39.02	-5.30
		30 MHz to 1 GHz	-46.87	-48.07	-47.15	-47.45	-29.02	-17.85
		1 GHz to 1.928 GHz	-35.47	-35.80	-36.78	-36.88	-19.02	-16.45
		1.992 MHz to 6 GHz	-21.37	-21.00	-21.91	-21.68	-19.02	-1.98
		6 GHz to 18 GHz	-29.47	-29.42	-28.90	-28.86	-19.02	-9.84
		18 GHz to 22 GHz	-30.75	-30.96	-30.94	-30.57	-19.02	-11.55

Table 8-95. Conducted Spurious Emission Summary Data (PCS_NR_1C_5M)



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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-53.38	-53.86	-52.55	-53.71	-49.02	-3.53
		150 kHz to 30 MHz	-45.00	-46.07	-45.34	-43.60	-39.02	-4.58
		30 MHz to 1 GHz	-47.61	-47.74	-46.98	-47.35	-29.02	-17.96
		1 GHz to 1.928 GHz	-30.22	-30.25	-29.59	-29.70	-19.02	-10.57
		1.992 MHz to 6 GHz	-28.02	-27.07	-27.79	-27.40	-19.02	-8.05
		6 GHz to 18 GHz	-29.37	-28.42	-28.44	-29.14	-19.02	-9.40
		18 GHz to 22 GHz	-31.21	-29.89	-30.42	-30.76	-19.02	-10.87
	1	9 kHz to 150 kHz	-53.21	-53.03	-53.00	-52.97	-49.02	-3.95
		150 kHz to 30 MHz	-44.69	-44.35	-45.35	-44.41	-39.02	-5.33
		30 MHz to 1 GHz	-47.69	-48.04	-48.12	-46.75	-29.02	-17.73
		1 GHz to 1.928 GHz	-29.73	-29.12	-28.44	-29.12	-19.02	-9.42
		1.992 MHz to 6 GHz	-27.52	-27.66	-27.62	-28.19	-19.02	-8.50
		6 GHz to 18 GHz	-29.27	-29.16	-29.22	-28.41	-19.02	-9.39
		18 GHz to 22 GHz	-30.37	-30.95	-29.79	-30.68	-19.02	-10.77
	2	9 kHz to 150 kHz	-53.41	-53.73	-53.91	-53.15	-49.02	-4.13
		150 kHz to 30 MHz	-44.90	-44.71	-44.84	-46.06	-39.02	-5.69
		30 MHz to 1 GHz	-47.87	-47.28	-46.85	-48.31	-29.02	-17.83
		1 GHz to 1.928 GHz	-30.23	-29.47	-28.98	-27.66	-19.02	-8.64
		1.992 MHz to 6 GHz	-27.89	-27.81	-27.53	-27.20	-19.02	-8.18
		6 GHz to 18 GHz	-28.35	-29.55	-29.57	-28.88	-19.02	-9.33
		18 GHz to 22 GHz	-30.17	-29.98	-29.87	-31.06	-19.02	-10.85
	3	9 kHz to 150 kHz	-53.21	-53.29	-52.50	-53.59	-49.02	-3.48
		150 kHz to 30 MHz	-44.51	-44.71	-46.11	-44.41	-39.02	-5.39
		30 MHz to 1 GHz	-47.53	-48.04	-47.35	-48.13	-29.02	-18.33
1 GHz to 1.928 GHz		-30.38	-29.76	-28.27	-29.96	-19.02	-9.25	
1.992 MHz to 6 GHz		-27.11	-28.04	-27.94	-27.49	-19.02	-8.09	
6 GHz to 18 GHz		-28.97	-29.12	-28.39	-29.30	-19.02	-9.37	
18 GHz to 22 GHz		-29.95	-30.69	-30.86	-30.41	-19.02	-10.93	
Middle	0	9 kHz to 150 kHz	-53.10	-53.05	-52.84	-52.90	-49.02	-3.82
		150 kHz to 30 MHz	-44.86	-44.61	-45.83	-46.60	-39.02	-5.59
		30 MHz to 1 GHz	-47.68	-47.15	-47.72	-46.62	-29.02	-17.60
		1 GHz to 1.928 GHz	-33.89	-33.51	-33.66	-33.76	-19.02	-14.49
		1.992 MHz to 6 GHz	-27.88	-26.94	-27.68	-27.59	-19.02	-7.92
		6 GHz to 18 GHz	-29.21	-27.73	-28.98	-28.77	-19.02	-8.71
		18 GHz to 22 GHz	-30.61	-30.70	-30.58	-31.01	-19.02	-11.56
	1	9 kHz to 150 kHz	-51.91	-53.02	-53.29	-53.05	-49.02	-2.89
		150 kHz to 30 MHz	-45.35	-45.02	-45.31	-45.18	-39.02	-6.00
		30 MHz to 1 GHz	-47.40	-47.07	-46.75	-47.82	-29.02	-17.73
		1 GHz to 1.928 GHz	-33.33	-33.59	-32.40	-34.09	-19.02	-13.38
		1.992 MHz to 6 GHz	-27.12	-27.59	-27.34	-27.43	-19.02	-8.10
		6 GHz to 18 GHz	-28.49	-29.21	-28.04	-28.22	-19.02	-9.02
		18 GHz to 22 GHz	-29.63	-30.41	-30.02	-30.98	-19.02	-10.61



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	2	9 kHz to 150 kHz	-53.54	-53.88	-53.26	-54.03	-49.02	-4.24
		150 kHz to 30 MHz	-43.06	-44.17	-45.51	-45.92	-39.02	-4.04
		30 MHz to 1 GHz	-47.53	-46.94	-47.12	-47.15	-29.02	-17.92
		1 GHz to 1.928 GHz	-32.91	-32.80	-33.30	-31.91	-19.02	-12.89
		1.992 MHz to 6 GHz	-27.21	-28.00	-27.99	-27.69	-19.02	-8.19
		6 GHz to 18 GHz	-28.71	-29.07	-29.22	-28.75	-19.02	-9.69
		18 GHz to 22 GHz	-29.77	-29.84	-29.46	-30.80	-19.02	-10.44
	3	9 kHz to 150 kHz	-53.33	-52.86	-53.16	-53.22	-49.02	-3.84
		150 kHz to 30 MHz	-44.48	-44.07	-44.99	-44.08	-39.02	-5.05
		30 MHz to 1 GHz	-46.52	-46.96	-47.23	-48.18	-29.02	-17.50
		1 GHz to 1.928 GHz	-34.29	-34.24	-35.56	-34.01	-19.02	-14.99
		1.992 MHz to 6 GHz	-27.05	-27.20	-27.17	-27.73	-19.02	-8.03
		6 GHz to 18 GHz	-28.23	-29.62	-29.14	-29.49	-19.02	-9.21
		18 GHz to 22 GHz	-31.01	-30.41	-29.59	-30.25	-19.02	-10.57
High	0	9 kHz to 150 kHz	-52.82	-53.02	-52.92	-53.27	-49.02	-3.80
		150 kHz to 30 MHz	-44.85	-43.94	-45.69	-45.97	-39.02	-4.92
		30 MHz to 1 GHz	-47.87	-47.09	-47.61	-47.57	-29.02	-18.07
		1 GHz to 1.928 GHz	-32.65	-32.29	-32.43	-32.42	-19.02	-13.27
		1.992 MHz to 6 GHz	-26.88	-26.92	-27.17	-27.30	-19.02	-7.86
		6 GHz to 18 GHz	-28.93	-29.15	-29.63	-28.67	-19.02	-9.65
		18 GHz to 22 GHz	-29.29	-28.85	-30.83	-29.87	-19.02	-9.83
	1	9 kHz to 150 kHz	-52.98	-53.09	-52.67	-53.33	-49.02	-3.65
		150 kHz to 30 MHz	-44.69	-44.81	-43.93	-44.49	-39.02	-4.91
		30 MHz to 1 GHz	-47.24	-47.49	-47.71	-48.01	-29.02	-18.22
		1 GHz to 1.928 GHz	-32.00	-36.46	-31.95	-32.16	-19.02	-12.93
		1.992 MHz to 6 GHz	-23.83	-23.94	-24.61	-23.80	-19.02	-4.78
		6 GHz to 18 GHz	-28.65	-29.49	-28.91	-29.17	-19.02	-9.63
		18 GHz to 22 GHz	-31.17	-30.17	-29.82	-30.77	-19.02	-10.80
	2	9 kHz to 150 kHz	-53.00	-53.27	-53.20	-52.92	-49.02	-3.90
		150 kHz to 30 MHz	-44.70	-44.71	-44.67	-45.06	-39.02	-5.65
		30 MHz to 1 GHz	-47.75	-47.00	-47.49	-47.71	-29.02	-17.98
		1 GHz to 1.928 GHz	-32.21	-37.04	-32.26	-31.89	-19.02	-12.87
		1.992 MHz to 6 GHz	-27.07	-26.26	-26.52	-26.82	-19.02	-7.24
		6 GHz to 18 GHz	-29.13	-29.16	-28.30	-29.52	-19.02	-9.28
		18 GHz to 22 GHz	-29.66	-29.61	-31.25	-30.74	-19.02	-10.59
	3	9 kHz to 150 kHz	-52.75	-51.97	-54.11	-53.95	-49.02	-2.95
		150 kHz to 30 MHz	-45.30	-43.37	-44.75	-45.59	-39.02	-4.35
		30 MHz to 1 GHz	-47.69	-47.22	-47.51	-47.46	-29.02	-18.20
		1 GHz to 1.928 GHz	-32.13	-37.05	-32.62	-32.02	-19.02	-13.00
		1.992 MHz to 6 GHz	-25.11	-26.40	-24.89	-25.38	-19.02	-5.87
		6 GHz to 18 GHz	-29.04	-28.90	-28.94	-29.37	-19.02	-9.88
		18 GHz to 22 GHz	-30.49	-30.80	-30.38	-30.01	-19.02	-10.99

Table 8-96. Conducted Spurious Emission Summary Data (PCS_NR_1C_20M)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-53.51	-53.50	-53.04	-53.30	-49.02	-4.02
		150 kHz to 30 MHz	-44.27	-44.48	-44.64	-45.67	-39.02	-5.25
		30 MHz to 1 GHz	-47.58	-47.25	-48.66	-47.35	-29.02	-18.23
		1 GHz to 1.928 GHz	-30.04	-30.44	-30.63	-30.49	-19.02	-11.02
		1.992 MHz to 6 GHz	-27.37	-27.76	-28.36	-27.31	-19.02	-8.29
		6 GHz to 18 GHz	-29.48	-28.84	-29.93	-29.19	-19.02	-9.82
		18 GHz to 22 GHz	-31.14	-30.97	-29.77	-30.62	-19.02	-10.75
	1	9 kHz to 150 kHz	-53.16	-53.35	-53.41	-53.26	-49.02	-4.14
		150 kHz to 30 MHz	-45.72	-45.49	-44.60	-45.87	-39.02	-5.58
		30 MHz to 1 GHz	-47.98	-47.83	-47.67	-46.56	-29.02	-17.54
		1 GHz to 1.928 GHz	-30.22	-29.52	-28.47	-29.23	-19.02	-9.45
		1.992 MHz to 6 GHz	-27.92	-28.17	-26.72	-27.51	-19.02	-7.70
		6 GHz to 18 GHz	-29.42	-29.33	-29.12	-29.70	-19.02	-10.10
		18 GHz to 22 GHz	-30.82	-30.84	-30.29	-30.71	-19.02	-11.27
	2	9 kHz to 150 kHz	-53.47	-53.22	-52.57	-53.51	-49.02	-3.55
		150 kHz to 30 MHz	-44.82	-45.00	-44.77	-44.36	-39.02	-5.34
		30 MHz to 1 GHz	-48.39	-47.70	-47.00	-47.46	-29.02	-17.98
		1 GHz to 1.928 GHz	-29.93	-29.74	-30.12	-29.07	-19.02	-10.05
		1.992 MHz to 6 GHz	-28.47	-27.66	-27.24	-27.15	-19.02	-8.13
		6 GHz to 18 GHz	-29.79	-29.37	-29.15	-29.75	-19.02	-10.13
		18 GHz to 22 GHz	-29.18	-29.80	-30.02	-31.41	-19.02	-10.16
	3	9 kHz to 150 kHz	-53.48	-53.78	-52.84	-53.53	-49.02	-3.82
		150 kHz to 30 MHz	-45.45	-46.17	-44.29	-44.22	-39.02	-5.20
		30 MHz to 1 GHz	-47.46	-47.89	-47.32	-47.69	-29.02	-18.30
1 GHz to 1.928 GHz		-30.08	-28.66	-30.26	-30.24	-19.02	-9.64	
1.992 MHz to 6 GHz		-27.64	-27.13	-27.21	-27.75	-19.02	-8.11	
6 GHz to 18 GHz		-29.52	-28.88	-29.57	-28.99	-19.02	-9.86	
18 GHz to 22 GHz		-31.23	-31.40	-30.54	-30.78	-19.02	-11.52	
Middle	0	9 kHz to 150 kHz	-53.54	-52.98	-53.35	-53.05	-49.02	-3.96
		150 kHz to 30 MHz	-44.47	-45.21	-44.04	-45.14	-39.02	-5.02
		30 MHz to 1 GHz	-46.71	-47.41	-48.37	-47.62	-29.02	-17.69
		1 GHz to 1.928 GHz	-32.67	-32.04	-34.51	-32.58	-19.02	-13.02
		1.992 MHz to 6 GHz	-27.59	-26.99	-27.56	-27.91	-19.02	-7.97
		6 GHz to 18 GHz	-28.19	-28.98	-28.96	-29.37	-19.02	-9.17
		18 GHz to 22 GHz	-30.69	-29.11	-29.96	-29.44	-19.02	-10.09
	1	9 kHz to 150 kHz	-53.45	-53.37	-52.77	-53.64	-49.02	-3.75
		150 kHz to 30 MHz	-44.91	-45.36	-45.98	-45.78	-39.02	-5.89
		30 MHz to 1 GHz	-46.99	-47.06	-47.79	-47.42	-29.02	-17.97
		1 GHz to 1.928 GHz	-33.20	-33.10	-32.64	-32.74	-19.02	-13.62
		1.992 MHz to 6 GHz	-28.26	-27.75	-27.94	-27.79	-19.02	-8.73
		6 GHz to 18 GHz	-28.86	-29.48	-29.80	-29.25	-19.02	-9.84
		18 GHz to 22 GHz	-30.52	-30.02	-31.42	-29.57	-19.02	-10.55



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	2	9 kHz to 150 kHz	-53.66	-53.03	-53.79	-53.25	-49.02	-4.01
		150 kHz to 30 MHz	-45.31	-44.33	-45.48	-44.32	-39.02	-5.30
		30 MHz to 1 GHz	-47.95	-47.43	-47.45	-47.41	-29.02	-18.39
		1 GHz to 1.928 GHz	-33.45	-32.47	-34.48	-33.04	-19.02	-13.45
		1.992 MHz to 6 GHz	-26.92	-26.96	-28.07	-27.72	-19.02	-7.90
		6 GHz to 18 GHz	-29.05	-29.74	-29.43	-30.06	-19.02	-10.03
		18 GHz to 22 GHz	-30.14	-30.10	-30.28	-30.95	-19.02	-11.08
	3	9 kHz to 150 kHz	-53.94	-53.42	-52.98	-53.75	-49.02	-3.96
		150 kHz to 30 MHz	-45.82	-46.81	-46.46	-44.00	-39.02	-4.97
		30 MHz to 1 GHz	-48.12	-47.12	-48.07	-47.21	-29.02	-18.10
		1 GHz to 1.928 GHz	-33.87	-33.46	-33.50	-33.88	-19.02	-14.44
		1.992 MHz to 6 GHz	-27.45	-27.50	-27.67	-27.53	-19.02	-8.43
		6 GHz to 18 GHz	-29.01	-28.28	-29.67	-29.46	-19.02	-9.26
		18 GHz to 22 GHz	-30.90	-30.23	-30.97	-30.57	-19.02	-11.21
High	0	9 kHz to 150 kHz	-53.60	-53.60	-53.28	-53.75	-49.02	-4.26
		150 kHz to 30 MHz	-44.15	-45.52	-45.41	-44.49	-39.02	-5.13
		30 MHz to 1 GHz	-47.91	-47.01	-48.00	-47.21	-29.02	-17.99
		1 GHz to 1.928 GHz	-33.63	-33.24	-33.39	-33.06	-19.02	-14.04
		1.992 MHz to 6 GHz	-27.96	-27.48	-27.74	-26.60	-19.02	-7.58
		6 GHz to 18 GHz	-29.32	-29.92	-29.56	-29.46	-19.02	-10.30
		18 GHz to 22 GHz	-28.94	-30.77	-31.10	-30.01	-19.02	-9.92
	1	9 kHz to 150 kHz	-52.62	-53.08	-52.88	-53.26	-49.02	-3.60
		150 kHz to 30 MHz	-43.94	-45.44	-44.27	-45.64	-39.02	-4.92
		30 MHz to 1 GHz	-47.36	-47.38	-47.74	-47.25	-29.02	-18.23
		1 GHz to 1.928 GHz	-32.83	-33.42	-34.59	-33.72	-19.02	-13.81
		1.992 MHz to 6 GHz	-23.87	-25.99	-25.32	-24.78	-19.02	-4.85
		6 GHz to 18 GHz	-29.66	-29.74	-29.63	-28.81	-19.02	-9.79
		18 GHz to 22 GHz	-30.42	-30.35	-30.85	-30.93	-19.02	-11.33
	2	9 kHz to 150 kHz	-53.39	-53.58	-53.65	-53.48	-49.02	-4.37
		150 kHz to 30 MHz	-44.50	-44.87	-44.58	-46.25	-39.02	-5.48
		30 MHz to 1 GHz	-47.99	-47.69	-47.67	-47.57	-29.02	-18.55
		1 GHz to 1.928 GHz	-33.83	-33.02	-33.04	-33.74	-19.02	-14.00
		1.992 MHz to 6 GHz	-26.63	-27.66	-23.99	-27.16	-19.02	-4.97
		6 GHz to 18 GHz	-29.15	-29.70	-29.52	-29.29	-19.02	-10.13
		18 GHz to 22 GHz	-30.14	-30.04	-29.89	-30.27	-19.02	-10.87
	3	9 kHz to 150 kHz	-53.47	-52.31	-53.79	-52.80	-49.02	-3.29
		150 kHz to 30 MHz	-45.32	-45.12	-46.64	-45.09	-39.02	-6.07
		30 MHz to 1 GHz	-47.00	-48.01	-47.45	-47.68	-29.02	-17.98
		1 GHz to 1.928 GHz	-33.01	-33.28	-32.57	-33.37	-19.02	-13.55
		1.992 MHz to 6 GHz	-26.53	-26.72	-26.68	-26.99	-19.02	-7.51
		6 GHz to 18 GHz	-29.46	-28.60	-29.72	-29.67	-19.02	-9.58
		18 GHz to 22 GHz	-29.23	-30.79	-28.70	-30.58	-19.02	-9.68

Table 8-97. Conducted Spurious Emission Summary Data (PCS_DSS_Ratio_9:1_1C_20M)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-52.93	-52.99	-53.72	-53.39	-49.02	-3.91
		150 kHz to 30 MHz	-46.72	-44.89	-43.35	-45.71	-39.02	-4.33
		30 MHz to 1 GHz	-46.94	-47.73	-47.07	-47.52	-29.02	-17.92
		1 GHz to 1.928 GHz	-29.73	-35.47	-29.25	-28.71	-19.02	-9.69
		1.992 MHz to 6 GHz	-27.92	-27.31	-27.79	-27.93	-19.02	-8.29
		6 GHz to 18 GHz	-27.71	-29.04	-28.85	-28.99	-19.02	-8.69
		18 GHz to 22 GHz	-30.71	-30.37	-30.92	-30.56	-19.02	-11.35
	1	9 kHz to 150 kHz	-53.14	-52.63	-53.80	-52.66	-49.02	-3.61
		150 kHz to 30 MHz	-45.20	-45.87	-44.47	-45.94	-39.02	-5.45
		30 MHz to 1 GHz	-47.50	-46.58	-47.44	-47.58	-29.02	-17.56
		1 GHz to 1.928 GHz	-29.81	-36.35	-28.93	-29.79	-19.02	-9.91
		1.992 MHz to 6 GHz	-27.18	-26.86	-27.40	-27.55	-19.02	-7.84
		6 GHz to 18 GHz	-28.80	-28.58	-28.69	-28.85	-19.02	-9.56
		18 GHz to 22 GHz	-30.84	-30.85	-28.99	-31.18	-19.02	-9.97
	2	9 kHz to 150 kHz	-53.19	-53.75	-53.05	-52.67	-49.02	-3.65
		150 kHz to 30 MHz	-44.95	-44.25	-43.97	-44.95	-39.02	-4.95
		30 MHz to 1 GHz	-47.69	-47.57	-47.63	-48.12	-29.02	-18.55
		1 GHz to 1.928 GHz	-30.39	-35.71	-30.56	-30.47	-19.02	-11.37
		1.992 MHz to 6 GHz	-27.53	-27.08	-27.88	-27.29	-19.02	-8.06
		6 GHz to 18 GHz	-28.67	-29.07	-28.26	-29.48	-19.02	-9.24
		18 GHz to 22 GHz	-30.88	-30.71	-29.75	-30.62	-19.02	-10.73
	3	9 kHz to 150 kHz	-53.25	-53.23	-53.23	-53.46	-49.02	-4.21
		150 kHz to 30 MHz	-45.08	-44.89	-44.86	-45.48	-39.02	-5.84
		30 MHz to 1 GHz	-46.36	-46.76	-47.82	-47.58	-29.02	-17.34
1 GHz to 1.928 GHz		-28.30	-35.51	-29.80	-29.46	-19.02	-9.28	
1.992 MHz to 6 GHz		-27.47	-27.49	-27.50	-28.07	-19.02	-8.45	
6 GHz to 18 GHz		-28.67	-28.90	-28.54	-28.45	-19.02	-9.43	
18 GHz to 22 GHz		-30.54	-31.03	-30.94	-30.50	-19.02	-11.48	
Middle	0	9 kHz to 150 kHz	-52.79	-53.19	-53.27	-52.99	-49.02	-3.77
		150 kHz to 30 MHz	-46.22	-43.74	-43.59	-45.66	-39.02	-4.57
		30 MHz to 1 GHz	-47.94	-48.30	-48.13	-46.36	-29.02	-17.34
		1 GHz to 1.928 GHz	-34.40	-33.20	-34.48	-33.77	-19.02	-14.18
		1.992 MHz to 6 GHz	-27.76	-27.09	-28.34	-27.94	-19.02	-8.07
		6 GHz to 18 GHz	-28.68	-28.98	-29.03	-28.22	-19.02	-9.20
		18 GHz to 22 GHz	-30.52	-31.36	-30.30	-31.08	-19.02	-11.28
	1	9 kHz to 150 kHz	-52.38	-52.96	-53.35	-52.99	-49.02	-3.36
		150 kHz to 30 MHz	-45.50	-45.20	-44.76	-45.19	-39.02	-5.74
		30 MHz to 1 GHz	-47.81	-47.16	-47.88	-46.67	-29.02	-17.65
		1 GHz to 1.928 GHz	-33.27	-33.33	-32.87	-33.61	-19.02	-13.85
		1.992 MHz to 6 GHz	-27.63	-26.57	-27.49	-27.42	-19.02	-7.55
		6 GHz to 18 GHz	-28.75	-29.87	-29.24	-28.39	-19.02	-9.37
		18 GHz to 22 GHz	-30.37	-29.64	-30.69	-31.12	-19.02	-10.62



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	2	9 kHz to 150 kHz	-53.61	-53.46	-52.54	-53.49	-49.02	-3.52
		150 kHz to 30 MHz	-44.91	-43.86	-45.76	-42.77	-39.02	-3.75
		30 MHz to 1 GHz	-48.40	-47.52	-47.68	-47.11	-29.02	-18.09
		1 GHz to 1.928 GHz	-33.43	-32.87	-34.07	-33.05	-19.02	-13.85
		1.992 MHz to 6 GHz	-27.56	-27.44	-27.46	-27.92	-19.02	-8.42
		6 GHz to 18 GHz	-28.07	-29.26	-28.21	-28.87	-19.02	-9.05
		18 GHz to 22 GHz	-31.05	-30.73	-31.27	-30.18	-19.02	-11.16
	3	9 kHz to 150 kHz	-53.37	-53.18	-53.41	-53.65	-49.02	-4.16
		150 kHz to 30 MHz	-45.79	-43.85	-45.83	-46.41	-39.02	-4.83
		30 MHz to 1 GHz	-47.79	-48.13	-48.13	-47.10	-29.02	-18.08
		1 GHz to 1.928 GHz	-33.76	-33.57	-33.70	-34.10	-19.02	-14.55
		1.992 MHz to 6 GHz	-27.53	-27.72	-27.57	-27.23	-19.02	-8.21
		6 GHz to 18 GHz	-28.81	-29.29	-28.62	-28.54	-19.02	-9.52
		18 GHz to 22 GHz	-30.23	-29.65	-29.78	-29.56	-19.02	-10.54
High	0	9 kHz to 150 kHz	-53.00	-53.00	-52.97	-52.86	-49.02	-3.84
		150 kHz to 30 MHz	-44.83	-45.73	-46.24	-45.57	-39.02	-5.81
		30 MHz to 1 GHz	-47.68	-47.93	-47.34	-47.59	-29.02	-18.32
		1 GHz to 1.928 GHz	-33.16	-33.89	-32.23	-32.40	-19.02	-13.21
		1.992 MHz to 6 GHz	-27.07	-28.11	-26.95	-27.05	-19.02	-7.93
		6 GHz to 18 GHz	-29.59	-29.14	-28.58	-28.96	-19.02	-9.56
		18 GHz to 22 GHz	-30.39	-30.67	-30.29	-29.60	-19.02	-10.58
	1	9 kHz to 150 kHz	-52.30	-52.95	-52.82	-52.71	-49.02	-3.28
		150 kHz to 30 MHz	-43.77	-43.35	-45.58	-46.37	-39.02	-4.33
		30 MHz to 1 GHz	-48.25	-48.11	-46.84	-47.79	-29.02	-17.82
		1 GHz to 1.928 GHz	-32.70	-32.00	-32.09	-32.69	-19.02	-12.98
		1.992 MHz to 6 GHz	-25.81	-25.35	-24.41	-24.51	-19.02	-5.39
		6 GHz to 18 GHz	-29.29	-29.50	-29.33	-28.25	-19.02	-9.23
		18 GHz to 22 GHz	-29.67	-30.67	-29.74	-30.00	-19.02	-10.65
	2	9 kHz to 150 kHz	-53.47	-52.97	-53.67	-53.37	-49.02	-3.95
		150 kHz to 30 MHz	-44.83	-45.70	-42.98	-44.99	-39.02	-3.96
		30 MHz to 1 GHz	-47.81	-47.44	-47.39	-47.90	-29.02	-18.37
		1 GHz to 1.928 GHz	-32.98	-32.09	-32.38	-32.50	-19.02	-13.07
		1.992 MHz to 6 GHz	-27.18	-27.72	-26.86	-26.70	-19.02	-7.68
		6 GHz to 18 GHz	-27.12	-29.75	-29.58	-28.82	-19.02	-8.10
		18 GHz to 22 GHz	-31.02	-30.57	-30.79	-30.12	-19.02	-11.10
	3	9 kHz to 150 kHz	-52.93	-52.45	-53.42	-52.83	-49.02	-3.43
		150 kHz to 30 MHz	-45.33	-45.03	-45.31	-45.64	-39.02	-6.01
		30 MHz to 1 GHz	-47.71	-48.02	-47.38	-47.23	-29.02	-18.21
		1 GHz to 1.928 GHz	-32.24	-32.73	-32.96	-32.42	-19.02	-13.22
		1.992 MHz to 6 GHz	-26.20	-27.03	-26.79	-27.02	-19.02	-7.18
		6 GHz to 18 GHz	-28.57	-28.72	-29.17	-29.03	-19.02	-9.55
		18 GHz to 22 GHz	-29.91	-31.13	-30.39	-30.75	-19.02	-10.89

Table 8-98. Conducted Spurious Emission Summary Data (PCS_DSS_Ratio_5:5_1C_20M)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-53.40	-53.16	-52.59	-53.11	-49.02	-3.57
		150 kHz to 30 MHz	-44.11	-42.99	-44.55	-44.84	-39.02	-3.97
		30 MHz to 1 GHz	-46.01	-46.71	-47.78	-47.04	-29.02	-16.99
		1 GHz to 1.928 GHz	-30.51	-28.60	-30.04	-29.18	-19.02	-9.58
		1.992 MHz to 6 GHz	-27.96	-26.90	-27.84	-27.01	-19.02	-7.88
		6 GHz to 18 GHz	-28.77	-27.81	-28.13	-29.00	-19.02	-8.79
		18 GHz to 22 GHz	-31.00	-29.68	-30.15	-30.86	-19.02	-10.66
	1	9 kHz to 150 kHz	-53.14	-52.70	-53.15	-53.06	-49.02	-3.68
		150 kHz to 30 MHz	-44.97	-46.50	-45.20	-43.58	-39.02	-4.56
		30 MHz to 1 GHz	-46.84	-47.42	-47.52	-47.10	-29.02	-17.82
		1 GHz to 1.928 GHz	-29.50	-29.49	-29.19	-28.31	-19.02	-9.29
		1.992 MHz to 6 GHz	-27.07	-26.80	-27.73	-26.81	-19.02	-7.78
		6 GHz to 18 GHz	-28.58	-28.73	-27.96	-28.44	-19.02	-8.94
		18 GHz to 22 GHz	-30.74	-30.63	-29.66	-29.65	-19.02	-10.63
	2	9 kHz to 150 kHz	-53.23	-53.79	-53.39	-53.80	-49.02	-4.21
		150 kHz to 30 MHz	-44.11	-45.31	-44.23	-43.87	-39.02	-4.85
		30 MHz to 1 GHz	-46.59	-46.77	-47.08	-46.19	-29.02	-17.17
		1 GHz to 1.928 GHz	-29.56	-30.04	-29.57	-30.54	-19.02	-10.54
		1.992 MHz to 6 GHz	-27.75	-27.79	-27.46	-27.48	-19.02	-8.44
		6 GHz to 18 GHz	-28.89	-28.65	-28.88	-27.85	-19.02	-8.83
		18 GHz to 22 GHz	-29.52	-30.51	-30.66	-29.70	-19.02	-10.50
	3	9 kHz to 150 kHz	-53.57	-53.17	-53.65	-52.93	-49.02	-3.91
		150 kHz to 30 MHz	-44.30	-44.33	-44.50	-44.12	-39.02	-5.10
		30 MHz to 1 GHz	-47.13	-47.29	-48.01	-47.01	-29.02	-17.99
1 GHz to 1.928 GHz		-30.14	-29.36	-29.47	-28.71	-19.02	-9.69	
1.992 MHz to 6 GHz		-27.85	-26.67	-27.27	-27.50	-19.02	-7.65	
6 GHz to 18 GHz		-29.45	-29.07	-28.82	-28.32	-19.02	-9.30	
18 GHz to 22 GHz		-31.11	-29.97	-30.43	-31.37	-19.02	-10.95	
Middle	0	9 kHz to 150 kHz	-53.71	-53.20	-52.97	-52.80	-49.02	-3.78
		150 kHz to 30 MHz	-45.01	-46.86	-44.14	-44.62	-39.02	-5.12
		30 MHz to 1 GHz	-46.79	-47.50	-47.72	-47.16	-29.02	-17.77
		1 GHz to 1.928 GHz	-33.25	-33.70	-33.49	-35.57	-19.02	-14.23
		1.992 MHz to 6 GHz	-27.63	-27.21	-27.90	-27.41	-19.02	-8.19
		6 GHz to 18 GHz	-28.66	-28.66	-28.61	-28.60	-19.02	-9.58
		18 GHz to 22 GHz	-30.71	-30.90	-29.66	-30.53	-19.02	-10.64
	1	9 kHz to 150 kHz	-52.48	-53.08	-53.24	-53.05	-49.02	-3.46
		150 kHz to 30 MHz	-44.13	-46.14	-44.05	-46.14	-39.02	-5.03
		30 MHz to 1 GHz	-46.41	-47.48	-46.45	-46.74	-29.02	-17.39
		1 GHz to 1.928 GHz	-33.24	-33.17	-33.57	-36.53	-19.02	-14.15
		1.992 MHz to 6 GHz	-27.80	-26.97	-27.96	-27.79	-19.02	-7.95
		6 GHz to 18 GHz	-28.90	-28.17	-28.67	-29.25	-19.02	-9.15
		18 GHz to 22 GHz	-30.47	-30.04	-30.35	-29.95	-19.02	-10.93



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	2	9 kHz to 150 kHz	-53.39	-52.94	-53.39	-53.32	-49.02	-3.92
		150 kHz to 30 MHz	-44.32	-45.01	-43.56	-45.44	-39.02	-4.54
		30 MHz to 1 GHz	-46.69	-47.41	-46.54	-47.62	-29.02	-17.52
		1 GHz to 1.928 GHz	-33.12	-32.65	-34.06	-35.81	-19.02	-13.63
		1.992 MHz to 6 GHz	-27.54	-27.46	-27.45	-27.68	-19.02	-8.43
		6 GHz to 18 GHz	-28.60	-28.44	-27.73	-28.68	-19.02	-8.71
		18 GHz to 22 GHz	-30.81	-30.75	-30.42	-30.49	-19.02	-11.40
	3	9 kHz to 150 kHz	-53.25	-53.20	-53.03	-53.42	-49.02	-4.01
		150 kHz to 30 MHz	-45.12	-44.53	-45.15	-44.43	-39.02	-5.41
		30 MHz to 1 GHz	-47.25	-48.06	-46.97	-46.79	-29.02	-17.77
		1 GHz to 1.928 GHz	-33.08	-33.68	-33.52	-37.39	-19.02	-14.06
		1.992 MHz to 6 GHz	-27.22	-26.75	-27.19	-28.18	-19.02	-7.73
		6 GHz to 18 GHz	-28.94	-28.72	-29.21	-29.13	-19.02	-9.70
		18 GHz to 22 GHz	-29.85	-30.79	-30.91	-30.98	-19.02	-10.83
High	0	9 kHz to 150 kHz	-53.12	-52.71	-53.41	-53.52	-49.02	-3.69
		150 kHz to 30 MHz	-45.64	-44.06	-44.02	-44.19	-39.02	-5.00
		30 MHz to 1 GHz	-46.87	-48.12	-47.76	-46.96	-29.02	-17.85
		1 GHz to 1.928 GHz	-31.89	-32.60	-35.79	-31.89	-19.02	-12.87
		1.992 MHz to 6 GHz	-27.49	-26.52	-27.87	-26.44	-19.02	-7.42
		6 GHz to 18 GHz	-28.87	-28.81	-29.15	-29.18	-19.02	-9.79
		18 GHz to 22 GHz	-30.56	-30.69	-30.03	-30.49	-19.02	-11.01
	1	9 kHz to 150 kHz	-52.76	-52.80	-52.66	-53.68	-49.02	-3.64
		150 kHz to 30 MHz	-45.33	-46.35	-45.64	-45.33	-39.02	-6.31
		30 MHz to 1 GHz	-47.65	-47.70	-47.68	-47.29	-29.02	-18.27
		1 GHz to 1.928 GHz	-31.57	-33.16	-35.27	-32.70	-19.02	-12.55
		1.992 MHz to 6 GHz	-24.35	-26.29	-26.43	-23.40	-19.02	-4.38
		6 GHz to 18 GHz	-29.37	-28.17	-28.94	-28.45	-19.02	-9.15
		18 GHz to 22 GHz	-29.91	-30.50	-30.52	-30.35	-19.02	-10.89
	2	9 kHz to 150 kHz	-53.52	-53.96	-53.24	-53.38	-49.02	-4.22
		150 kHz to 30 MHz	-45.99	-44.26	-43.59	-44.06	-39.02	-4.57
		30 MHz to 1 GHz	-46.79	-47.73	-46.39	-46.58	-29.02	-17.37
		1 GHz to 1.928 GHz	-32.10	-33.71	-35.57	-32.56	-19.02	-13.08
		1.992 MHz to 6 GHz	-27.01	-26.60	-26.76	-25.40	-19.02	-6.38
		6 GHz to 18 GHz	-28.89	-28.78	-29.28	-28.46	-19.02	-9.44
		18 GHz to 22 GHz	-30.65	-30.68	-31.15	-31.31	-19.02	-11.63
	3	9 kHz to 150 kHz	-53.48	-53.47	-53.53	-53.61	-49.02	-4.45
		150 kHz to 30 MHz	-46.23	-46.01	-45.22	-45.12	-39.02	-6.10
		30 MHz to 1 GHz	-47.43	-46.84	-46.01	-47.43	-29.02	-16.99
		1 GHz to 1.928 GHz	-32.95	-33.58	-34.07	-31.29	-19.02	-12.27
		1.992 MHz to 6 GHz	-26.43	-26.71	-27.63	-26.77	-19.02	-7.41
		6 GHz to 18 GHz	-29.40	-28.47	-29.31	-27.77	-19.02	-8.75
		18 GHz to 22 GHz	-31.54	-30.06	-30.90	-29.78	-19.02	-10.76

Table 8-99. Conducted Spurious Emission Summary Data (PCS_DSS_Ratio_2:8_1C_20M)



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Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	NR_2C_5M + 5M	9 kHz to 150 kHz	-53.03	-49.02	-4.01
		150 kHz to 30 MHz	-45.57	-39.02	-6.55
		30 MHz to 1 GHz	-47.02	-29.02	-18.00
		1 GHz to 1.928 GHz	-33.67	-19.02	-14.65
		1.992 MHz to 6 GHz	-27.27	-19.02	-8.25
		6 GHz to 18 GHz	-28.09	-19.02	-9.07
		18 GHz to 22 GHz	-30.11	-19.02	-11.09
	NR_1C_5M + LTE_1C_5M	9 kHz to 150 kHz	-53.06	-49.02	-4.04
		150 kHz to 30 MHz	-45.58	-39.02	-6.56
		30 MHz to 1 GHz	-47.72	-29.02	-18.70
		1 GHz to 1.928 GHz	-34.57	-19.02	-15.55
		1.992 MHz to 6 GHz	-27.29	-19.02	-8.27
		6 GHz to 18 GHz	-28.94	-19.02	-9.92
		18 GHz to 22 GHz	-30.53	-19.02	-11.51
	DSS_1C_10M + NR_1C_5M	9 kHz to 150 kHz	-52.05	-49.02	-3.03
		150 kHz to 30 MHz	-44.51	-39.02	-5.49
		30 MHz to 1 GHz	-46.85	-29.02	-17.83
		1 GHz to 1.928 GHz	-32.22	-19.02	-13.20
		1.992 MHz to 6 GHz	-27.09	-19.02	-8.07
		6 GHz to 18 GHz	-28.14	-19.02	-9.12
		18 GHz to 22 GHz	-30.14	-19.02	-11.12
	DSS_2C_10M + 10M	9 kHz to 150 kHz	-52.94	-49.02	-3.92
		150 kHz to 30 MHz	-45.96	-39.02	-6.94
		30 MHz to 1 GHz	-46.62	-29.02	-17.60
		1 GHz to 1.928 GHz	-32.50	-19.02	-13.48
		1.992 MHz to 6 GHz	-27.44	-19.02	-8.42
		6 GHz to 18 GHz	-29.70	-19.02	-10.68
		18 GHz to 22 GHz	-31.32	-19.02	-12.30
	DSS_1C_15M + LTE_1C_5M	9 kHz to 150 kHz	-53.25	-49.02	-4.23
		150 kHz to 30 MHz	-45.33	-39.02	-6.31
30 MHz to 1 GHz		-47.19	-29.02	-18.17	
1 GHz to 1.928 GHz		-33.35	-19.02	-14.33	
1.992 MHz to 6 GHz		-27.44	-19.02	-8.42	
6 GHz to 18 GHz		-30.48	-19.02	-11.46	
18 GHz to 22 GHz		-29.79	-19.02	-10.77	
NR_2C_10M + 15M	9 kHz to 150 kHz	-52.94	-49.02	-3.92	
	150 kHz to 30 MHz	-45.74	-39.02	-6.72	
	30 MHz to 1 GHz	-46.94	-29.02	-17.92	
	1 GHz to 1.928 GHz	-32.04	-19.02	-13.02	
	1.992 MHz to 6 GHz	-26.94	-19.02	-7.92	
	6 GHz to 18 GHz	-27.60	-19.02	-8.58	
	18 GHz to 22 GHz	-31.31	-19.02	-12.29	



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	DSS_2C_10M + 15M	9 kHz to 150 kHz	-53.87	-49.02	-4.85
		150 kHz to 30 MHz	-46.04	-39.02	-7.02
		30 MHz to 1 GHz	-47.44	-29.02	-18.42
		1 GHz to 1.928 GHz	-32.88	-19.02	-13.86
		1.992 MHz to 6 GHz	-28.12	-19.02	-9.10
		6 GHz to 18 GHz	-27.98	-19.02	-8.96
		18 GHz to 22 GHz	-30.80	-19.02	-11.78
	DSS_1C_20M + LTE_1C_5M	9 kHz to 150 kHz	-53.24	-49.02	-4.22
		150 kHz to 30 MHz	-45.28	-39.02	-6.26
		30 MHz to 1 GHz	-47.76	-29.02	-18.74
		1 GHz to 1.928 GHz	-32.63	-19.02	-13.61
		1.992 MHz to 6 GHz	-27.97	-19.02	-8.95
		6 GHz to 18 GHz	-29.22	-19.02	-10.20
		18 GHz to 22 GHz	-29.19	-19.02	-10.17
	DSS_1C_20M + NR_1C_5M	9 kHz to 150 kHz	-53.31	-49.02	-4.29
		150 kHz to 30 MHz	-45.78	-39.02	-6.76
		30 MHz to 1 GHz	-47.10	-29.02	-18.08
		1 GHz to 1.928 GHz	-32.40	-19.02	-13.38
		1.992 MHz to 6 GHz	-28.02	-19.02	-9.00
		6 GHz to 18 GHz	-28.86	-19.02	-9.84
		18 GHz to 22 GHz	-30.58	-19.02	-11.56
	NR_1C_20M + LTE_1C_5M	9 kHz to 150 kHz	-52.95	-49.02	-3.93
		150 kHz to 30 MHz	-44.88	-39.02	-5.86
		30 MHz to 1 GHz	-46.66	-29.02	-17.64
		1 GHz to 1.928 GHz	-33.06	-19.02	-14.04
		1.992 MHz to 6 GHz	-27.56	-19.02	-8.54
		6 GHz to 18 GHz	-29.88	-19.02	-10.86
		18 GHz to 22 GHz	-30.72	-19.02	-11.70

Table 8-100. Conducted Spurious Emission Summary Data (PCS_Contiguous_Multi Carrier)



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Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	NR_2C_5M + 5M Non-Contiguous	9 kHz to 150 kHz	-52.84	-49.02	-3.82
		150 kHz to 30 MHz	-44.49	-39.02	-5.47
		30 MHz to 1 GHz	-48.02	-29.02	-19.00
		1 GHz to 1.928 GHz	-26.41	-19.02	-7.39
		1.992 MHz to 6 GHz	-22.52	-19.02	-3.50
		6 GHz to 18 GHz	-28.58	-19.02	-9.56
		18 GHz to 22 GHz	-31.13	-19.02	-12.11
	NR_1C_5M + LTE_1C_5M Non-Contiguous	9 kHz to 150 kHz	-53.54	-49.02	-4.52
		150 kHz to 30 MHz	-45.62	-39.02	-6.60
		30 MHz to 1 GHz	-47.91	-29.02	-18.89
		1 GHz to 1.928 GHz	-25.35	-19.02	-6.33
		1.992 MHz to 6 GHz	-23.91	-19.02	-4.89
		6 GHz to 18 GHz	-29.31	-19.02	-10.29
		18 GHz to 22 GHz	-30.15	-19.02	-11.13
	DSS_1C_10M + NR_1C_5M Non-Contiguous	9 kHz to 150 kHz	-52.78	-49.02	-3.76
		150 kHz to 30 MHz	-45.34	-39.02	-6.32
		30 MHz to 1 GHz	-46.69	-29.02	-17.67
		1 GHz to 1.928 GHz	-28.17	-19.02	-9.15
		1.992 MHz to 6 GHz	-24.03	-19.02	-5.01
		6 GHz to 18 GHz	-29.69	-19.02	-10.67
		18 GHz to 22 GHz	-29.72	-19.02	-10.70
	DSS_2C_10M + 10M Non-Contiguous	9 kHz to 150 kHz	-53.20	-49.02	-4.18
		150 kHz to 30 MHz	-44.61	-39.02	-5.59
		30 MHz to 1 GHz	-47.28	-29.02	-18.26
		1 GHz to 1.928 GHz	-28.12	-19.02	-9.10
		1.992 MHz to 6 GHz	-25.25	-19.02	-6.23
		6 GHz to 18 GHz	-28.68	-19.02	-9.66
		18 GHz to 22 GHz	-30.80	-19.02	-11.78
	DSS_1C_15M + LTE_1C_5M Non-Contiguous	9 kHz to 150 kHz	-53.53	-49.02	-4.51
		150 kHz to 30 MHz	-44.62	-39.02	-5.60
		30 MHz to 1 GHz	-47.74	-29.02	-18.72
		1 GHz to 1.928 GHz	-29.35	-19.02	-10.33
		1.992 MHz to 6 GHz	-26.14	-19.02	-7.12
		6 GHz to 18 GHz	-28.25	-19.02	-9.23
		18 GHz to 22 GHz	-29.96	-19.02	-10.94
	NR_2C_10M + 15M Non-Contiguous	9 kHz to 150 kHz	-53.33	-49.02	-4.31
150 kHz to 30 MHz		-44.25	-39.02	-5.23	
30 MHz to 1 GHz		-47.09	-29.02	-18.07	
1 GHz to 1.928 GHz		-27.86	-19.02	-8.84	
1.992 MHz to 6 GHz		-25.62	-19.02	-6.60	
6 GHz to 18 GHz		-29.14	-19.02	-10.12	
18 GHz to 22 GHz		-30.28	-19.02	-11.26	



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	DSS_2C_10M + 15M Non-Contiguous	9 kHz to 150 kHz	-53.31	-49.02	-4.29
		150 kHz to 30 MHz	-45.24	-39.02	-6.22
		30 MHz to 1 GHz	-46.87	-29.02	-17.85
		1 GHz to 1.928 GHz	-28.00	-19.02	-8.98
		1.992 MHz to 6 GHz	-26.88	-19.02	-7.86
		6 GHz to 18 GHz	-28.09	-19.02	-9.07
		18 GHz to 22 GHz	-30.53	-19.02	-11.51
	DSS_1C_20M + LTE_1C_5M Non-Contiguous	9 kHz to 150 kHz	-53.39	-49.02	-4.37
		150 kHz to 30 MHz	-46.16	-39.02	-7.14
		30 MHz to 1 GHz	-47.06	-29.02	-18.04
		1 GHz to 1.928 GHz	-30.20	-19.02	-11.18
		1.992 MHz to 6 GHz	-25.89	-19.02	-6.87
		6 GHz to 18 GHz	-29.74	-19.02	-10.72
		18 GHz to 22 GHz	-29.27	-19.02	-10.25
	DSS_1C_20M + NR_1C_5M Non-Contiguous	9 kHz to 150 kHz	-53.45	-49.02	-4.43
		150 kHz to 30 MHz	-44.82	-39.02	-5.80
		30 MHz to 1 GHz	-47.12	-29.02	-18.10
		1 GHz to 1.928 GHz	-30.98	-19.02	-11.96
		1.992 MHz to 6 GHz	-25.04	-19.02	-6.02
		6 GHz to 18 GHz	-29.64	-19.02	-10.62
		18 GHz to 22 GHz	-29.50	-19.02	-10.48
	NR_1C_20M + LTE_1C_5M Non-Contiguous	9 kHz to 150 kHz	-53.33	-49.02	-4.31
		150 kHz to 30 MHz	-45.44	-39.02	-6.42
		30 MHz to 1 GHz	-47.31	-29.02	-18.29
		1 GHz to 1.928 GHz	-31.49	-19.02	-12.47
		1.992 MHz to 6 GHz	-26.01	-19.02	-6.99
		6 GHz to 18 GHz	-28.85	-19.02	-9.83
		18 GHz to 22 GHz	-30.04	-19.02	-11.02

Table 8-101. Conducted Spurious Emission Summary Data (PCS_Non-Contiguous_Multi Carrier)



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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-58.32	-57.87	-58.10	-58.17	-49.02	-8.85
		150 kHz to 30 MHz	-43.06	-43.13	-43.11	-43.68	-39.02	-4.04
		30 MHz to 1 GHz	-52.77	-52.89	-51.28	-52.96	-29.02	-22.26
		1 GHz to 2.108 GHz	-35.17	-35.49	-35.42	-33.24	-19.02	-14.22
		2.182 GHz to 6 GHz	-28.06	-28.65	-27.75	-28.85	-19.02	-8.73
		6 GHz to 18 GHz	-33.51	-34.14	-33.81	-33.50	-19.02	-14.48
		18 GHz to 22 GHz	-29.96	-30.36	-31.18	-29.12	-19.02	-10.10
	1	9 kHz to 150 kHz	-57.87	-58.44	-57.70	-58.13	-49.02	-8.68
		150 kHz to 30 MHz	-42.53	-42.61	-42.47	-42.85	-39.02	-3.45
		30 MHz to 1 GHz	-52.44	-52.90	-51.88	-52.26	-29.02	-22.86
		1 GHz to 2.108 GHz	-34.81	-34.03	-35.67	-34.51	-19.02	-15.01
		2.182 GHz to 6 GHz	-28.71	-28.28	-28.72	-27.33	-19.02	-8.31
		6 GHz to 18 GHz	-34.21	-32.78	-34.06	-34.08	-19.02	-13.76
		18 GHz to 22 GHz	-29.95	-31.12	-30.70	-30.72	-19.02	-10.93
	2	9 kHz to 150 kHz	-57.73	-57.86	-57.85	-57.94	-49.02	-8.71
		150 kHz to 30 MHz	-42.30	-42.30	-42.41	-42.60	-39.02	-3.28
		30 MHz to 1 GHz	-52.54	-52.09	-52.44	-52.54	-29.02	-23.07
		1 GHz to 2.108 GHz	-37.62	-37.10	-37.10	-35.18	-19.02	-16.16
		2.182 GHz to 6 GHz	-28.64	-28.08	-28.73	-28.34	-19.02	-9.06
		6 GHz to 18 GHz	-33.95	-32.61	-34.16	-33.59	-19.02	-13.59
		18 GHz to 22 GHz	-30.24	-30.60	-29.30	-30.88	-19.02	-10.28
	3	9 kHz to 150 kHz	-57.94	-58.06	-58.15	-57.95	-49.02	-8.92
		150 kHz to 30 MHz	-44.10	-43.95	-43.97	-43.98	-39.02	-4.93
		30 MHz to 1 GHz	-52.16	-52.33	-52.34	-51.28	-29.02	-22.26
		1 GHz to 2.108 GHz	-36.36	-35.20	-36.84	-35.74	-19.02	-16.18
		2.182 GHz to 6 GHz	-28.00	-28.09	-28.22	-28.45	-19.02	-8.98
		6 GHz to 18 GHz	-33.97	-32.77	-34.45	-32.96	-19.02	-13.75
		18 GHz to 22 GHz	-30.20	-30.22	-30.23	-29.31	-19.02	-10.29
Middle	0	9 kHz to 150 kHz	-58.44	-57.93	-57.83	-58.22	-49.02	-8.81
		150 kHz to 30 MHz	-43.57	-43.53	-43.81	-43.66	-39.02	-4.51
		30 MHz to 1 GHz	-51.97	-51.88	-51.80	-52.37	-29.02	-22.78
		1 GHz to 2.108 GHz	-39.61	-40.03	-40.58	-39.52	-19.02	-20.50
		2.182 GHz to 6 GHz	-28.23	-28.94	-28.45	-28.54	-19.02	-9.21
		6 GHz to 18 GHz	-32.95	-32.60	-33.48	-32.85	-19.02	-13.58
		18 GHz to 22 GHz	-29.96	-30.90	-29.52	-29.85	-19.02	-10.50
	1	9 kHz to 150 kHz	-58.20	-57.86	-58.20	-58.38	-49.02	-8.84
		150 kHz to 30 MHz	-42.94	-43.16	-43.15	-43.20	-39.02	-3.92
		30 MHz to 1 GHz	-52.29	-51.70	-51.85	-52.40	-29.02	-22.68
		1 GHz to 2.108 GHz	-39.67	-40.29	-39.17	-40.36	-19.02	-20.15
		2.182 GHz to 6 GHz	-28.61	-26.69	-27.97	-28.34	-19.02	-7.67
		6 GHz to 18 GHz	-34.80	-32.66	-33.76	-34.08	-19.02	-13.64
		18 GHz to 22 GHz	-30.52	-30.08	-29.53	-28.75	-19.02	-9.73



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	2	9 kHz to 150 kHz	-58.26	-57.78	-57.74	-58.03	-49.02	-8.72
		150 kHz to 30 MHz	-42.89	-42.82	-43.18	-43.15	-39.02	-3.80
		30 MHz to 1 GHz	-52.85	-52.58	-51.35	-52.40	-29.02	-22.33
		1 GHz to 2.108 GHz	-39.63	-40.07	-40.77	-38.98	-19.02	-19.96
		2.182 GHz to 6 GHz	-28.86	-28.78	-28.44	-28.23	-19.02	-9.21
		6 GHz to 18 GHz	-33.19	-32.91	-33.63	-34.06	-19.02	-13.89
		18 GHz to 22 GHz	-31.45	-31.12	-29.79	-31.17	-19.02	-10.77
	3	9 kHz to 150 kHz	-57.62	-57.89	-57.56	-58.24	-49.02	-8.54
		150 kHz to 30 MHz	-44.44	-44.05	-43.82	-44.61	-39.02	-4.80
		30 MHz to 1 GHz	-52.37	-51.27	-51.96	-50.99	-29.02	-21.97
		1 GHz to 2.108 GHz	-39.94	-39.80	-40.86	-40.50	-19.02	-20.78
		2.182 GHz to 6 GHz	-27.97	-29.14	-27.97	-29.32	-19.02	-8.95
		6 GHz to 18 GHz	-33.06	-32.87	-33.18	-34.09	-19.02	-13.85
		18 GHz to 22 GHz	-30.98	-31.01	-30.59	-30.64	-19.02	-11.57
High	0	9 kHz to 150 kHz	-57.81	-58.09	-58.35	-57.94	-49.02	-8.79
		150 kHz to 30 MHz	-43.55	-43.80	-44.05	-43.66	-39.02	-4.53
		30 MHz to 1 GHz	-51.83	-52.79	-53.52	-51.31	-29.02	-22.29
		1 GHz to 2.108 GHz	-38.80	-39.84	-41.36	-39.26	-19.02	-19.78
		2.182 GHz to 6 GHz	-27.47	-21.21	-22.28	-21.86	-19.02	-2.19
		6 GHz to 18 GHz	-33.67	-33.59	-35.18	-32.30	-19.02	-13.28
		18 GHz to 22 GHz	-30.67	-29.96	-30.24	-30.32	-19.02	-10.94
	1	9 kHz to 150 kHz	-58.44	-58.10	-57.75	-57.92	-49.02	-8.73
		150 kHz to 30 MHz	-43.46	-43.09	-43.15	-42.92	-39.02	-3.90
		30 MHz to 1 GHz	-52.78	-53.00	-53.19	-52.40	-29.02	-23.38
		1 GHz to 2.108 GHz	-39.46	-40.00	-41.74	-40.42	-19.02	-20.44
		2.182 GHz to 6 GHz	-27.30	-21.52	-21.92	-21.36	-19.02	-2.34
		6 GHz to 18 GHz	-33.08	-33.86	-35.82	-33.45	-19.02	-14.06
		18 GHz to 22 GHz	-31.03	-29.65	-30.40	-30.77	-19.02	-10.63
	2	9 kHz to 150 kHz	-57.48	-57.63	-57.57	-57.77	-49.02	-8.46
		150 kHz to 30 MHz	-43.22	-42.84	-43.24	-43.06	-39.02	-3.82
		30 MHz to 1 GHz	-52.47	-52.94	-54.20	-52.53	-29.02	-23.45
		1 GHz to 2.108 GHz	-40.94	-39.93	-41.95	-40.58	-19.02	-20.91
		2.182 GHz to 6 GHz	-28.29	-21.17	-22.91	-21.55	-19.02	-2.15
		6 GHz to 18 GHz	-33.00	-32.70	-34.59	-35.50	-19.02	-13.68
		18 GHz to 22 GHz	-30.66	-29.01	-29.15	-30.58	-19.02	-9.99
	3	9 kHz to 150 kHz	-58.04	-57.95	-57.95	-57.88	-49.02	-8.86
		150 kHz to 30 MHz	-44.13	-44.05	-44.14	-44.17	-39.02	-5.03
		30 MHz to 1 GHz	-52.17	-51.76	-54.17	-51.06	-29.02	-22.04
		1 GHz to 2.108 GHz	-38.66	-40.37	-41.68	-40.86	-19.02	-19.64
		2.182 GHz to 6 GHz	-28.41	-21.65	-22.58	-21.56	-19.02	-2.54
		6 GHz to 18 GHz	-33.05	-32.96	-35.95	-33.15	-19.02	-13.94
		18 GHz to 22 GHz	-30.32	-28.90	-31.39	-29.78	-19.02	-9.88

Table 8-102. Conducted Spurious Emission Summary Data (AWS_NR_1C_5M)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-57.88	-57.86	-58.32	-57.76	-49.02	-8.74
		150 kHz to 30 MHz	-43.97	-43.73	-43.56	-43.50	-39.02	-4.48
		30 MHz to 1 GHz	-52.21	-52.71	-51.60	-51.73	-29.02	-22.58
		1 GHz to 2.108 GHz	-35.78	-37.59	-36.89	-35.41	-19.02	-16.39
		2.182 GHz to 6 GHz	-21.88	-22.43	-22.57	-21.96	-19.02	-2.86
		6 GHz to 18 GHz	-33.54	-33.58	-32.78	-33.54	-19.02	-13.76
		18 GHz to 22 GHz	-30.63	-30.55	-30.86	-30.08	-19.02	-11.06
	1	9 kHz to 150 kHz	-57.93	-58.31	-58.34	-58.16	-49.02	-8.91
		150 kHz to 30 MHz	-43.13	-43.21	-43.12	-43.13	-39.02	-4.10
		30 MHz to 1 GHz	-53.31	-52.34	-52.59	-52.09	-29.02	-23.07
		1 GHz to 2.108 GHz	-36.31	-37.62	-37.73	-36.04	-19.02	-17.02
		2.182 GHz to 6 GHz	-22.17	-22.41	-23.01	-22.63	-19.02	-3.15
		6 GHz to 18 GHz	-33.94	-33.74	-33.70	-33.16	-19.02	-14.14
		18 GHz to 22 GHz	-30.93	-29.17	-30.56	-30.16	-19.02	-10.15
	2	9 kHz to 150 kHz	-58.12	-58.36	-57.77	-58.03	-49.02	-8.75
		150 kHz to 30 MHz	-43.00	-42.86	-42.80	-43.03	-39.02	-3.78
		30 MHz to 1 GHz	-52.36	-51.35	-51.65	-52.55	-29.02	-22.33
		1 GHz to 2.108 GHz	-38.60	-36.88	-38.73	-37.89	-19.02	-17.86
		2.182 GHz to 6 GHz	-23.10	-22.61	-22.67	-22.07	-19.02	-3.05
		6 GHz to 18 GHz	-31.64	-33.49	-33.71	-33.05	-19.02	-12.62
		18 GHz to 22 GHz	-30.88	-30.71	-31.16	-29.39	-19.02	-10.37
	3	9 kHz to 150 kHz	-57.85	-58.16	-57.83	-57.81	-49.02	-8.79
		150 kHz to 30 MHz	-44.29	-44.25	-44.41	-44.19	-39.02	-5.17
		30 MHz to 1 GHz	-52.96	-52.04	-51.70	-51.49	-29.02	-22.47
1 GHz to 2.108 GHz		-37.99	-38.36	-40.05	-37.81	-19.02	-18.79	
2.182 GHz to 6 GHz		-23.15	-22.51	-21.62	-22.11	-19.02	-2.60	
6 GHz to 18 GHz		-33.18	-33.51	-33.75	-33.73	-19.02	-14.16	
18 GHz to 22 GHz		-30.31	-29.86	-29.69	-30.64	-19.02	-10.67	
Middle	0	9 kHz to 150 kHz	-58.17	-58.32	-58.11	-58.33	-49.02	-9.09
		150 kHz to 30 MHz	-43.68	-43.86	-43.44	-43.93	-39.02	-4.42
		30 MHz to 1 GHz	-52.05	-51.44	-52.91	-52.28	-29.02	-22.42
		1 GHz to 2.108 GHz	-39.34	-40.66	-40.20	-39.92	-19.02	-20.32
		2.182 GHz to 6 GHz	-22.52	-21.90	-22.19	-21.82	-19.02	-2.80
		6 GHz to 18 GHz	-33.10	-33.71	-33.36	-33.65	-19.02	-14.08
		18 GHz to 22 GHz	-30.72	-30.64	-30.52	-29.46	-19.02	-10.44
	1	9 kHz to 150 kHz	-57.86	-57.79	-58.36	-58.19	-49.02	-8.77
		150 kHz to 30 MHz	-43.08	-43.43	-43.40	-43.07	-39.02	-4.05
		30 MHz to 1 GHz	-51.46	-52.33	-51.70	-52.96	-29.02	-22.44
		1 GHz to 2.108 GHz	-39.13	-39.18	-40.33	-39.89	-19.02	-20.11
		2.182 GHz to 6 GHz	-22.16	-22.10	-22.62	-22.62	-19.02	-3.08
		6 GHz to 18 GHz	-32.95	-32.10	-33.33	-33.13	-19.02	-13.08
		18 GHz to 22 GHz	-30.78	-30.67	-31.07	-30.55	-19.02	-11.53



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	2	9 kHz to 150 kHz	-57.84	-57.85	-57.81	-58.26	-49.02	-8.79
		150 kHz to 30 MHz	-42.60	-43.11	-43.01	-42.64	-39.02	-3.58
		30 MHz to 1 GHz	-51.84	-51.56	-51.50	-51.52	-29.02	-22.48
		1 GHz to 2.108 GHz	-40.06	-40.54	-40.36	-40.33	-19.02	-21.04
		2.182 GHz to 6 GHz	-22.01	-22.43	-22.04	-23.03	-19.02	-2.99
		6 GHz to 18 GHz	-33.62	-32.77	-33.60	-33.34	-19.02	-13.75
		18 GHz to 22 GHz	-29.93	-30.76	-29.96	-30.06	-19.02	-10.91
	3	9 kHz to 150 kHz	-57.94	-58.16	-57.98	-57.81	-49.02	-8.79
		150 kHz to 30 MHz	-44.30	-43.99	-44.55	-44.19	-39.02	-4.97
		30 MHz to 1 GHz	-52.24	-52.40	-52.34	-51.92	-29.02	-22.90
		1 GHz to 2.108 GHz	-38.65	-38.95	-40.57	-40.71	-19.02	-19.63
		2.182 GHz to 6 GHz	-22.55	-22.01	-22.17	-22.14	-19.02	-2.99
		6 GHz to 18 GHz	-33.34	-32.86	-32.43	-32.94	-19.02	-13.41
		18 GHz to 22 GHz	-29.17	-28.74	-30.34	-30.88	-19.02	-9.72
High	0	9 kHz to 150 kHz	-58.25	-58.43	-58.53	-58.50	-49.02	-9.23
		150 kHz to 30 MHz	-43.90	-43.55	-43.72	-43.51	-39.02	-4.49
		30 MHz to 1 GHz	-52.43	-52.90	-51.84	-51.42	-29.02	-22.40
		1 GHz to 2.108 GHz	-41.03	-40.48	-40.20	-39.61	-19.02	-20.59
		2.182 GHz to 6 GHz	-22.66	-21.95	-22.68	-22.01	-19.02	-2.93
		6 GHz to 18 GHz	-33.09	-32.28	-33.41	-34.14	-19.02	-13.26
		18 GHz to 22 GHz	-29.92	-30.41	-29.91	-30.21	-19.02	-10.89
	1	9 kHz to 150 kHz	-58.21	-57.66	-58.34	-58.43	-49.02	-8.64
		150 kHz to 30 MHz	-43.37	-42.82	-43.11	-43.26	-39.02	-3.80
		30 MHz to 1 GHz	-52.21	-51.94	-50.47	-51.83	-29.02	-21.45
		1 GHz to 2.108 GHz	-39.42	-40.01	-39.12	-39.79	-19.02	-20.10
		2.182 GHz to 6 GHz	-22.45	-21.97	-23.01	-22.57	-19.02	-2.95
		6 GHz to 18 GHz	-32.92	-32.76	-32.87	-33.88	-19.02	-13.74
		18 GHz to 22 GHz	-30.62	-30.56	-30.78	-30.91	-19.02	-11.54
	2	9 kHz to 150 kHz	-57.96	-57.83	-58.01	-57.82	-49.02	-8.80
		150 kHz to 30 MHz	-43.19	-42.91	-42.98	-42.75	-39.02	-3.73
		30 MHz to 1 GHz	-52.40	-51.93	-52.05	-52.67	-29.02	-22.91
		1 GHz to 2.108 GHz	-39.55	-39.48	-40.91	-40.87	-19.02	-20.46
		2.182 GHz to 6 GHz	-22.76	-22.15	-21.80	-23.26	-19.02	-2.78
		6 GHz to 18 GHz	-32.40	-32.14	-32.04	-33.23	-19.02	-13.02
		18 GHz to 22 GHz	-31.42	-29.85	-30.76	-29.74	-19.02	-10.72
	3	9 kHz to 150 kHz	-57.98	-58.07	-58.25	-58.25	-49.02	-8.96
		150 kHz to 30 MHz	-44.18	-44.17	-44.06	-44.02	-39.02	-5.00
		30 MHz to 1 GHz	-52.03	-52.37	-52.54	-52.38	-29.02	-23.01
		1 GHz to 2.108 GHz	-40.92	-39.25	-39.85	-40.62	-19.02	-20.23
		2.182 GHz to 6 GHz	-21.89	-22.45	-21.89	-23.00	-19.02	-2.87
		6 GHz to 18 GHz	-33.44	-32.90	-32.71	-32.95	-19.02	-13.69
		18 GHz to 22 GHz	-29.75	-31.36	-30.42	-31.19	-19.02	-10.73

Table 8-103. Conducted Spurious Emission Summary Data (AWS_NR_1C_20M)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-57.18	-57.76	-57.52	-57.83	-49.02	-8.16
		150 kHz to 30 MHz	-42.99	-43.82	-42.96	-43.08	-39.02	-3.94
		30 MHz to 1 GHz	-51.34	-52.62	-52.04	-51.04	-29.02	-22.02
		1 GHz to 2.108 GHz	-37.90	-40.28	-36.29	-38.21	-19.02	-17.27
		2.182 GHz to 6 GHz	-22.24	-21.60	-22.19	-20.83	-19.02	-1.81
		6 GHz to 18 GHz	-32.04	-31.39	-31.59	-30.80	-19.02	-11.78
		18 GHz to 22 GHz	-30.81	-30.02	-29.95	-29.79	-19.02	-10.77
	1	9 kHz to 150 kHz	-57.05	-57.50	-57.64	-57.52	-49.02	-8.03
		150 kHz to 30 MHz	-42.40	-43.39	-42.65	-42.43	-39.02	-3.38
		30 MHz to 1 GHz	-52.22	-52.58	-52.21	-52.07	-29.02	-23.05
		1 GHz to 2.108 GHz	-37.61	-40.28	-38.34	-38.08	-19.02	-18.59
		2.182 GHz to 6 GHz	-23.45	-22.76	-21.77	-22.03	-19.02	-2.75
		6 GHz to 18 GHz	-34.78	-34.84	-34.51	-34.16	-19.02	-15.14
		18 GHz to 22 GHz	-30.83	-30.05	-30.80	-29.24	-19.02	-10.22
	2	9 kHz to 150 kHz	-57.13	-57.51	-57.28	-57.47	-49.02	-8.11
		150 kHz to 30 MHz	-42.27	-42.99	-42.57	-42.39	-39.02	-3.25
		30 MHz to 1 GHz	-51.95	-52.29	-51.90	-51.68	-29.02	-22.66
		1 GHz to 2.108 GHz	-38.96	-40.11	-38.49	-39.28	-19.02	-19.47
		2.182 GHz to 6 GHz	-22.44	-22.07	-21.93	-21.96	-19.02	-2.91
		6 GHz to 18 GHz	-31.93	-31.95	-32.35	-32.20	-19.02	-12.91
		18 GHz to 22 GHz	-28.96	-29.72	-29.83	-28.58	-19.02	-9.56
	3	9 kHz to 150 kHz	-56.85	-57.68	-57.22	-57.45	-49.02	-7.83
		150 kHz to 30 MHz	-43.19	-44.26	-43.57	-43.47	-39.02	-4.17
		30 MHz to 1 GHz	-52.33	-52.78	-51.82	-51.60	-29.02	-22.58
1 GHz to 2.108 GHz		-39.00	-40.31	-38.69	-37.93	-19.02	-18.91	
2.182 GHz to 6 GHz		-22.61	-22.26	-22.49	-22.04	-19.02	-3.02	
6 GHz to 18 GHz		-33.23	-32.98	-32.79	-33.18	-19.02	-13.77	
18 GHz to 22 GHz		-57.18	-57.76	-57.52	-57.83	-19.02	-11.02	
Middle	0	9 kHz to 150 kHz	-57.63	-57.55	-57.28	-57.72	-49.02	-8.26
		150 kHz to 30 MHz	-42.73	-43.22	-42.82	-42.88	-39.02	-3.71
		30 MHz to 1 GHz	-51.61	-51.75	-51.07	-51.04	-29.02	-22.02
		1 GHz to 2.108 GHz	-39.81	-38.91	-38.16	-39.44	-19.02	-19.14
		2.182 GHz to 6 GHz	-21.23	-22.22	-21.13	-20.90	-19.02	-1.88
		6 GHz to 18 GHz	-31.94	-31.47	-31.63	-30.30	-19.02	-11.28
		18 GHz to 22 GHz	-30.23	-29.75	-28.53	-29.59	-19.02	-9.51
	1	9 kHz to 150 kHz	-57.44	-57.36	-57.19	-57.40	-49.02	-8.17
		150 kHz to 30 MHz	-42.61	-42.08	-42.39	-42.54	-39.02	-3.06
		30 MHz to 1 GHz	-51.89	-51.71	-52.61	-52.82	-29.02	-22.69
		1 GHz to 2.108 GHz	-40.24	-39.34	-40.19	-39.22	-19.02	-20.20
		2.182 GHz to 6 GHz	-23.00	-22.54	-22.28	-22.65	-19.02	-3.26
		6 GHz to 18 GHz	-33.85	-34.05	-33.90	-34.53	-19.02	-14.83
		18 GHz to 22 GHz	-30.30	-29.54	-29.40	-29.09	-19.02	-10.07



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	2	9 kHz to 150 kHz	-56.98	-57.09	-57.15	-56.74	-49.02	-7.72
		150 kHz to 30 MHz	-42.23	-42.40	-42.22	-42.07	-39.02	-3.05
		30 MHz to 1 GHz	-52.11	-51.87	-51.91	-51.96	-29.02	-22.85
		1 GHz to 2.108 GHz	-39.61	-39.40	-39.81	-39.90	-19.02	-20.38
		2.182 GHz to 6 GHz	-22.58	-21.72	-20.77	-22.62	-19.02	-1.75
		6 GHz to 18 GHz	-32.00	-31.18	-32.06	-30.64	-19.02	-11.62
		18 GHz to 22 GHz	-29.05	-30.14	-29.57	-30.66	-19.02	-10.03
	3	9 kHz to 150 kHz	-57.35	-57.29	-56.98	-57.67	-49.02	-7.96
		150 kHz to 30 MHz	-43.38	-43.49	-43.56	-43.06	-39.02	-4.04
		30 MHz to 1 GHz	-51.57	-52.35	-52.09	-52.49	-29.02	-22.55
		1 GHz to 2.108 GHz	-39.57	-40.38	-39.32	-40.75	-19.02	-20.30
		2.182 GHz to 6 GHz	-22.26	-21.24	-22.26	-22.47	-19.02	-2.22
		6 GHz to 18 GHz	-32.88	-32.68	-33.93	-32.73	-19.02	-13.66
		18 GHz to 22 GHz	-31.00	-30.23	-29.69	-30.75	-19.02	-10.67
High	0	9 kHz to 150 kHz	-57.21	-57.16	-57.61	-57.83	-49.02	-8.14
		150 kHz to 30 MHz	-43.12	-42.96	-42.82	-43.07	-39.02	-3.80
		30 MHz to 1 GHz	-51.18	-51.91	-50.71	-50.95	-29.02	-21.69
		1 GHz to 2.108 GHz	-39.50	-40.38	-38.77	-40.24	-19.02	-19.75
		2.182 GHz to 6 GHz	-20.69	-21.66	-22.19	-22.18	-19.02	-1.67
		6 GHz to 18 GHz	-30.58	-32.08	-31.42	-31.62	-19.02	-11.56
		18 GHz to 22 GHz	-29.53	-29.44	-30.20	-30.14	-19.02	-10.42
	1	9 kHz to 150 kHz	-57.26	-57.28	-57.75	-56.85	-49.02	-7.83
		150 kHz to 30 MHz	-42.57	-42.37	-42.34	-42.56	-39.02	-3.32
		30 MHz to 1 GHz	-52.07	-52.57	-52.58	-51.97	-29.02	-22.95
		1 GHz to 2.108 GHz	-38.59	-40.71	-39.46	-40.10	-19.02	-19.57
		2.182 GHz to 6 GHz	-22.57	-22.97	-22.02	-23.09	-19.02	-3.00
		6 GHz to 18 GHz	-33.81	-34.34	-33.70	-34.10	-19.02	-14.68
		18 GHz to 22 GHz	-30.45	-30.73	-31.08	-30.18	-19.02	-11.16
	2	9 kHz to 150 kHz	-56.75	-57.64	-57.41	-57.59	-49.02	-7.73
		150 kHz to 30 MHz	-42.40	-42.09	-42.30	-42.09	-39.02	-3.07
		30 MHz to 1 GHz	-52.22	-51.41	-52.37	-51.37	-29.02	-22.35
		1 GHz to 2.108 GHz	-40.79	-39.96	-39.79	-39.56	-19.02	-20.54
		2.182 GHz to 6 GHz	-21.86	-22.55	-22.56	-21.36	-19.02	-2.34
		6 GHz to 18 GHz	-30.73	-31.35	-32.03	-31.64	-19.02	-11.71
		18 GHz to 22 GHz	-29.91	-29.48	-30.92	-30.00	-19.02	-10.46
	3	9 kHz to 150 kHz	-57.31	-57.59	-57.51	-58.01	-49.02	-8.29
		150 kHz to 30 MHz	-43.49	-43.31	-43.38	-43.69	-39.02	-4.29
		30 MHz to 1 GHz	-52.61	-52.22	-52.56	-51.47	-29.02	-22.45
		1 GHz to 2.108 GHz	-40.61	-39.86	-40.43	-39.82	-19.02	-20.80
		2.182 GHz to 6 GHz	-22.05	-22.59	-22.25	-22.45	-19.02	-3.03
		6 GHz to 18 GHz	-33.99	-33.52	-32.21	-32.70	-19.02	-13.19
		18 GHz to 22 GHz	-29.53	-30.59	-29.02	-30.48	-19.02	-10.00

Table 8-104. Conducted Spurious Emission Summary Data (AWS_DSS_Ratio_9:1_1C_20M)



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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-57.46	-57.79	-57.92	-57.47	-49.02	-8.44
		150 kHz to 30 MHz	-42.72	-42.78	-42.98	-42.83	-39.02	-3.70
		30 MHz to 1 GHz	-51.49	-51.13	-51.35	-51.64	-29.02	-22.11
		1 GHz to 2.108 GHz	-33.75	-39.17	-36.32	-36.90	-19.02	-14.73
		2.182 GHz to 6 GHz	-21.91	-22.04	-22.78	-21.12	-19.02	-2.10
		6 GHz to 18 GHz	-31.46	-31.36	-31.77	-31.81	-19.02	-12.34
		18 GHz to 22 GHz	-30.37	-30.58	-30.78	-30.62	-19.02	-11.35
	1	9 kHz to 150 kHz	-57.44	-57.27	-57.29	-57.61	-49.02	-8.25
		150 kHz to 30 MHz	-42.53	-42.61	-42.47	-42.63	-39.02	-3.45
		30 MHz to 1 GHz	-52.11	-52.40	-52.53	-51.76	-29.02	-22.74
		1 GHz to 2.108 GHz	-36.62	-40.24	-36.88	-31.89	-19.02	-12.87
		2.182 GHz to 6 GHz	-22.25	-23.19	-22.97	-22.48	-19.02	-3.23
		6 GHz to 18 GHz	-34.04	-34.13	-33.80	-34.34	-19.02	-14.78
		18 GHz to 22 GHz	-29.80	-30.63	-29.98	-29.94	-19.02	-10.78
	2	9 kHz to 150 kHz	-57.67	-57.38	-57.33	-57.27	-49.02	-8.25
		150 kHz to 30 MHz	-42.29	-42.19	-42.07	-42.33	-39.02	-3.05
		30 MHz to 1 GHz	-52.24	-51.70	-51.17	-51.65	-29.02	-22.15
		1 GHz to 2.108 GHz	-39.48	-38.96	-39.87	-38.36	-19.02	-19.34
		2.182 GHz to 6 GHz	-21.82	-22.84	-22.62	-21.58	-19.02	-2.56
		6 GHz to 18 GHz	-32.27	-33.94	-31.40	-31.71	-19.02	-12.38
		18 GHz to 22 GHz	-30.08	-30.36	-30.90	-30.57	-19.02	-11.06
	3	9 kHz to 150 kHz	-57.74	-57.47	-57.64	-57.37	-49.02	-8.35
		150 kHz to 30 MHz	-43.27	-43.47	-43.34	-43.45	-39.02	-4.25
		30 MHz to 1 GHz	-51.26	-51.54	-51.27	-52.31	-29.02	-22.24
1 GHz to 2.108 GHz		-37.41	-40.56	-38.52	-38.28	-19.02	-18.39	
2.182 GHz to 6 GHz		-22.31	-22.64	-22.99	-21.48	-19.02	-2.46	
6 GHz to 18 GHz		-33.43	-33.41	-32.90	-32.69	-19.02	-13.67	
18 GHz to 22 GHz		-29.38	-27.89	-30.70	-30.84	-19.02	-8.87	
Middle	0	9 kHz to 150 kHz	-57.23	-57.72	-57.64	-57.88	-49.02	-8.21
		150 kHz to 30 MHz	-43.07	-43.06	-43.18	-43.63	-39.02	-4.04
		30 MHz to 1 GHz	-51.62	-51.95	-50.31	-50.81	-29.02	-21.29
		1 GHz to 2.108 GHz	-38.09	-39.70	-38.68	-39.66	-19.02	-19.07
		2.182 GHz to 6 GHz	-21.83	-21.28	-21.53	-22.17	-19.02	-2.26
		6 GHz to 18 GHz	-32.22	-31.68	-31.53	-31.63	-19.02	-12.51
		18 GHz to 22 GHz	-30.34	-29.12	-30.59	-30.84	-19.02	-10.10
	1	9 kHz to 150 kHz	-57.15	-57.60	-57.43	-57.16	-49.02	-8.13
		150 kHz to 30 MHz	-42.56	-42.47	-42.52	-43.36	-39.02	-3.45
		30 MHz to 1 GHz	-51.68	-52.09	-52.71	-51.07	-29.02	-22.05
		1 GHz to 2.108 GHz	-39.86	-40.08	-39.96	-40.76	-19.02	-20.84
		2.182 GHz to 6 GHz	-22.93	-23.03	-22.23	-23.38	-19.02	-3.21
		6 GHz to 18 GHz	-34.37	-32.40	-33.59	-34.75	-19.02	-13.38
		18 GHz to 22 GHz	-30.09	-30.63	-29.60	-30.01	-19.02	-10.58



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	2	9 kHz to 150 kHz	-57.24	-57.54	-57.03	-57.32	-49.02	-8.01
		150 kHz to 30 MHz	-42.16	-42.07	-42.28	-43.04	-39.02	-3.05
		30 MHz to 1 GHz	-51.08	-52.08	-51.44	-51.65	-29.02	-22.06
		1 GHz to 2.108 GHz	-39.40	-39.92	-39.58	-39.08	-19.02	-20.06
		2.182 GHz to 6 GHz	-21.93	-22.15	-22.78	-22.63	-19.02	-2.91
		6 GHz to 18 GHz	-31.68	-31.73	-29.92	-32.46	-19.02	-10.90
		18 GHz to 22 GHz	-30.39	-30.80	-28.88	-30.21	-19.02	-9.86
	3	9 kHz to 150 kHz	-57.26	-57.35	-57.51	-57.07	-49.02	-8.05
		150 kHz to 30 MHz	-43.31	-43.55	-43.06	-44.45	-39.02	-4.04
		30 MHz to 1 GHz	-51.13	-52.32	-51.17	-52.46	-29.02	-22.11
		1 GHz to 2.108 GHz	-40.04	-39.55	-39.09	-38.99	-19.02	-19.97
		2.182 GHz to 6 GHz	-22.65	-22.35	-22.24	-22.34	-19.02	-3.22
		6 GHz to 18 GHz	-33.66	-32.70	-32.64	-32.70	-19.02	-13.62
		18 GHz to 22 GHz	-31.05	-31.00	-30.59	-30.09	-19.02	-11.07
High	0	9 kHz to 150 kHz	-57.69	-58.50	-57.61	-57.63	-49.02	-8.59
		150 kHz to 30 MHz	-43.08	-43.00	-43.11	-43.02	-39.02	-3.98
		30 MHz to 1 GHz	-51.87	-51.17	-51.38	-51.47	-29.02	-22.15
		1 GHz to 2.108 GHz	-39.64	-38.92	-37.70	-40.12	-19.02	-18.68
		2.182 GHz to 6 GHz	-21.71	-22.18	-21.66	-22.30	-19.02	-2.64
		6 GHz to 18 GHz	-32.09	-31.85	-31.65	-31.59	-19.02	-12.57
		18 GHz to 22 GHz	-29.52	-30.93	-29.76	-30.84	-19.02	-10.50
	1	9 kHz to 150 kHz	-57.41	-57.99	-57.73	-56.82	-49.02	-7.80
		150 kHz to 30 MHz	-42.59	-42.68	-42.64	-42.75	-39.02	-3.57
		30 MHz to 1 GHz	-52.01	-52.23	-53.05	-52.80	-29.02	-22.99
		1 GHz to 2.108 GHz	-39.41	-40.10	-39.80	-40.19	-19.02	-20.39
		2.182 GHz to 6 GHz	-22.98	-22.53	-21.92	-23.53	-19.02	-2.90
		6 GHz to 18 GHz	-34.17	-34.08	-34.25	-33.02	-19.02	-14.00
		18 GHz to 22 GHz	-31.13	-30.24	-31.08	-30.56	-19.02	-11.22
	2	9 kHz to 150 kHz	-57.21	-57.97	-57.31	-57.16	-49.02	-8.14
		150 kHz to 30 MHz	-42.36	-42.27	-42.13	-42.23	-39.02	-3.11
		30 MHz to 1 GHz	-52.08	-52.12	-51.98	-52.51	-29.02	-22.96
		1 GHz to 2.108 GHz	-40.17	-39.64	-39.59	-40.16	-19.02	-20.57
		2.182 GHz to 6 GHz	-22.49	-21.52	-21.90	-20.61	-19.02	-1.59
		6 GHz to 18 GHz	-32.60	-31.23	-31.66	-31.89	-19.02	-12.21
		18 GHz to 22 GHz	-30.35	-30.10	-29.96	-29.89	-19.02	-10.87
	3	9 kHz to 150 kHz	-57.35	-57.76	-57.54	-57.50	-49.02	-8.33
		150 kHz to 30 MHz	-43.47	-43.55	-43.30	-43.46	-39.02	-4.28
		30 MHz to 1 GHz	-52.19	-52.12	-51.69	-51.54	-29.02	-22.52
		1 GHz to 2.108 GHz	-40.73	-39.46	-39.55	-40.06	-19.02	-20.44
		2.182 GHz to 6 GHz	-21.19	-22.25	-21.46	-22.47	-19.02	-2.17
		6 GHz to 18 GHz	-33.45	-33.30	-32.67	-32.16	-19.02	-13.14
		18 GHz to 22 GHz	-29.72	-29.22	-29.71	-29.34	-19.02	-10.20

Table 8-105. Conducted Spurious Emission Summary Data (AWS_DSS_Ratio_5:5_1C_20M)



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Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-58.34	-57.22	-58.08	-57.65	-49.02	-8.20
		150 kHz to 30 MHz	-42.76	-43.77	-43.70	-43.97	-39.02	-3.74
		30 MHz to 1 GHz	-51.19	-51.52	-51.36	-51.49	-29.02	-22.17
		1 GHz to 2.108 GHz	-36.03	-35.76	-31.76	-36.80	-19.02	-12.74
		2.182 GHz to 6 GHz	-21.87	-22.11	-21.80	-22.26	-19.02	-2.78
		6 GHz to 18 GHz	-32.23	-32.10	-32.38	-31.11	-19.02	-12.09
		18 GHz to 22 GHz	-29.53	-29.10	-30.22	-29.44	-19.02	-10.08
	1	9 kHz to 150 kHz	-57.50	-57.65	-57.54	-57.56	-49.02	-8.48
		150 kHz to 30 MHz	-43.24	-43.17	-43.27	-43.55	-39.02	-4.15
		30 MHz to 1 GHz	-52.73	-52.46	-52.22	-52.06	-29.02	-23.04
		1 GHz to 2.108 GHz	-37.09	-37.28	-37.43	-36.22	-19.02	-17.20
		2.182 GHz to 6 GHz	-22.36	-23.18	-22.28	-22.51	-19.02	-3.26
		6 GHz to 18 GHz	-34.32	-34.24	-34.78	-34.85	-19.02	-15.22
		18 GHz to 22 GHz	-30.27	-30.22	-29.30	-29.79	-19.02	-10.28
	2	9 kHz to 150 kHz	-57.34	-57.79	-57.34	-57.39	-49.02	-8.32
		150 kHz to 30 MHz	-42.94	-43.18	-42.99	-43.11	-39.02	-3.92
		30 MHz to 1 GHz	-51.53	-52.02	-51.44	-51.68	-29.02	-22.42
		1 GHz to 2.108 GHz	-39.83	-37.17	-40.31	-38.08	-19.02	-18.15
		2.182 GHz to 6 GHz	-21.51	-22.54	-22.33	-21.74	-19.02	-2.49
		6 GHz to 18 GHz	-31.80	-32.44	-32.67	-31.38	-19.02	-12.36
		18 GHz to 22 GHz	-30.32	-30.33	-30.71	-29.67	-19.02	-10.65
	3	9 kHz to 150 kHz	-57.87	-57.52	-57.49	-57.70	-49.02	-8.47
		150 kHz to 30 MHz	-44.12	-44.41	-44.10	-44.28	-39.02	-5.08
		30 MHz to 1 GHz	-52.71	-51.27	-52.78	-51.76	-29.02	-22.25
1 GHz to 2.108 GHz		-37.22	-39.64	-39.32	-39.32	-19.02	-18.20	
2.182 GHz to 6 GHz		-21.60	-22.87	-23.10	-22.70	-19.02	-2.58	
6 GHz to 18 GHz		-32.83	-32.08	-33.91	-33.41	-19.02	-13.06	
18 GHz to 22 GHz		-30.86	-29.79	-30.13	-30.59	-19.02	-10.77	
Middle	0	9 kHz to 150 kHz	-58.09	-57.26	-58.28	-58.40	-49.02	-8.24
		150 kHz to 30 MHz	-43.81	-43.67	-43.01	-43.68	-39.02	-3.99
		30 MHz to 1 GHz	-49.87	-51.75	-50.73	-52.09	-29.02	-20.85
		1 GHz to 2.108 GHz	-38.38	-39.09	-39.33	-36.84	-19.02	-17.82
		2.182 GHz to 6 GHz	-21.58	-22.17	-21.25	-20.98	-19.02	-1.96
		6 GHz to 18 GHz	-31.62	-31.57	-31.44	-31.98	-19.02	-12.42
		18 GHz to 22 GHz	-30.20	-29.34	-30.57	-29.72	-19.02	-10.32
	1	9 kHz to 150 kHz	-57.70	-57.36	-57.54	-57.47	-49.02	-8.34
		150 kHz to 30 MHz	-43.32	-43.52	-42.71	-43.40	-39.02	-3.69
		30 MHz to 1 GHz	-52.93	-52.57	-50.96	-51.05	-29.02	-21.94
		1 GHz to 2.108 GHz	-39.83	-40.08	-39.28	-39.88	-19.02	-20.26
		2.182 GHz to 6 GHz	-22.55	-22.44	-21.50	-22.85	-19.02	-2.48
		6 GHz to 18 GHz	-34.25	-34.49	-34.00	-34.14	-19.02	-14.98
		18 GHz to 22 GHz	-30.37	-29.16	-30.53	-30.46	-19.02	-10.14



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	2	9 kHz to 150 kHz	-57.51	-57.63	-58.03	-57.03	-49.02	-8.01
		150 kHz to 30 MHz	-43.19	-43.14	-42.11	-43.06	-39.02	-3.09
		30 MHz to 1 GHz	-51.90	-50.54	-51.60	-51.44	-29.02	-21.52
		1 GHz to 2.108 GHz	-39.86	-39.90	-39.88	-39.26	-19.02	-20.24
		2.182 GHz to 6 GHz	-22.08	-22.67	-22.18	-21.60	-19.02	-2.58
		6 GHz to 18 GHz	-31.82	-32.03	-31.59	-31.59	-19.02	-12.57
		18 GHz to 22 GHz	-29.89	-30.75	-30.16	-30.44	-19.02	-10.87
	3	9 kHz to 150 kHz	-57.79	-57.34	-57.35	-57.14	-49.02	-8.12
		150 kHz to 30 MHz	-44.28	-43.61	-43.60	-44.03	-39.02	-4.58
		30 MHz to 1 GHz	-52.02	-52.37	-52.01	-51.75	-29.02	-22.73
		1 GHz to 2.108 GHz	-39.41	-40.41	-39.68	-40.47	-19.02	-20.39
		2.182 GHz to 6 GHz	-21.92	-22.46	-22.48	-22.04	-19.02	-2.90
		6 GHz to 18 GHz	-32.70	-32.83	-32.85	-32.97	-19.02	-13.68
		18 GHz to 22 GHz	-30.09	-30.45	-29.95	-29.37	-19.02	-10.35
High	0	9 kHz to 150 kHz	-57.85	-57.94	-56.93	-58.34	-49.02	-7.91
		150 kHz to 30 MHz	-43.62	-43.07	-42.91	-43.16	-39.02	-3.89
		30 MHz to 1 GHz	-51.90	-50.72	-52.23	-51.89	-29.02	-21.70
		1 GHz to 2.108 GHz	-38.23	-38.80	-39.97	-39.99	-19.02	-19.21
		2.182 GHz to 6 GHz	-21.52	-21.56	-21.23	-22.03	-19.02	-2.21
		6 GHz to 18 GHz	-31.08	-31.25	-31.04	-31.73	-19.02	-12.02
		18 GHz to 22 GHz	-30.80	-29.93	-30.21	-29.02	-19.02	-10.00
	1	9 kHz to 150 kHz	-57.22	-58.04	-58.40	-57.94	-49.02	-8.20
		150 kHz to 30 MHz	-43.16	-42.46	-42.61	-42.52	-39.02	-3.44
		30 MHz to 1 GHz	-52.50	-51.14	-51.85	-52.64	-29.02	-22.12
		1 GHz to 2.108 GHz	-40.49	-38.76	-40.49	-40.28	-19.02	-19.74
		2.182 GHz to 6 GHz	-22.74	-22.92	-22.28	-21.65	-19.02	-2.63
		6 GHz to 18 GHz	-34.31	-34.75	-34.26	-34.87	-19.02	-15.24
		18 GHz to 22 GHz	-30.51	-30.48	-30.06	-29.60	-19.02	-10.58
	2	9 kHz to 150 kHz	-57.26	-58.48	-57.70	-57.58	-49.02	-8.24
		150 kHz to 30 MHz	-43.06	-42.09	-42.33	-42.07	-39.02	-3.05
		30 MHz to 1 GHz	-50.61	-51.95	-52.03	-51.76	-29.02	-21.59
		1 GHz to 2.108 GHz	-39.13	-39.12	-39.56	-40.41	-19.02	-20.10
		2.182 GHz to 6 GHz	-22.21	-21.85	-21.91	-22.73	-19.02	-2.83
		6 GHz to 18 GHz	-31.65	-31.31	-31.93	-31.50	-19.02	-12.29
		18 GHz to 22 GHz	-30.36	-30.63	-29.73	-30.15	-19.02	-10.71
	3	9 kHz to 150 kHz	-57.65	-58.54	-57.89	-58.14	-49.02	-8.63
		150 kHz to 30 MHz	-44.10	-43.35	-43.54	-43.27	-39.02	-4.25
		30 MHz to 1 GHz	-50.90	-52.24	-52.45	-52.29	-29.02	-21.88
		1 GHz to 2.108 GHz	-39.97	-39.41	-40.78	-40.00	-19.02	-20.39
		2.182 GHz to 6 GHz	-21.92	-22.26	-21.67	-21.26	-19.02	-2.24
		6 GHz to 18 GHz	-32.97	-32.98	-33.75	-33.01	-19.02	-13.95
		18 GHz to 22 GHz	-30.06	-30.62	-31.16	-30.48	-19.02	-11.04

Table 8-106. Conducted Spurious Emission Summary Data (AWS_DSS_Ratio_2:8_1C_20M)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22032101-00-R1.A3L	Test Dates: 03/25/2022 - 05/03/2022	EUT Type: RRU(RF4402d)	Page 175 of 225	

Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	NR_2C_5M + 5M	9 kHz to 150 kHz	-58.00	-49.02	-8.98
		150 kHz to 30 MHz	-43.80	-39.02	-4.78
		30 MHz to 1 GHz	-51.92	-29.02	-22.90
		1 GHz to 2.108 GHz	-40.51	-19.02	-21.49
		2.182 GHz to 6 GHz	-21.63	-19.02	-2.61
		6 GHz to 18 GHz	-31.72	-19.02	-12.70
		18 GHz to 22 GHz	-30.64	-19.02	-11.62
	NR_1C_5M + LTE_1C_5M	9 kHz to 150 kHz	-56.14	-49.02	-7.12
		150 kHz to 30 MHz	-42.71	-39.02	-3.69
		30 MHz to 1 GHz	-51.92	-29.02	-22.90
		1 GHz to 2.108 GHz	-40.13	-19.02	-21.11
		2.182 GHz to 6 GHz	-22.18	-19.02	-3.16
		6 GHz to 18 GHz	-33.77	-19.02	-14.75
		18 GHz to 22 GHz	-30.06	-19.02	-11.04
	DSS_1C_10M + NR_1C_5M	9 kHz to 150 kHz	-56.59	-49.02	-17.57
		150 kHz to 30 MHz	-43.87	-39.02	-14.85
		30 MHz to 1 GHz	-51.60	-29.02	-32.58
		1 GHz to 2.108 GHz	-38.45	-19.02	-19.43
		2.182 GHz to 6 GHz	-21.88	-19.02	-2.86
		6 GHz to 18 GHz	-31.85	-19.02	-12.83
		18 GHz to 22 GHz	-31.18	-19.02	-12.16
	DSS_2C_10M + 10M	9 kHz to 150 kHz	-57.92	-49.02	-18.90
		150 kHz to 30 MHz	-42.95	-39.02	-13.93
		30 MHz to 1 GHz	-51.98	-29.02	-32.96
		1 GHz to 2.108 GHz	-38.25	-19.02	-19.23
		2.182 GHz to 6 GHz	-21.78	-19.02	-2.76
		6 GHz to 18 GHz	-31.79	-19.02	-12.77
		18 GHz to 22 GHz	-30.37	-19.02	-11.35
	DSS_1C_10M + NR_1C_5M + LTE_1C_5M	9 kHz to 150 kHz	-56.71	-49.02	-7.69
		150 kHz to 30 MHz	-44.54	-39.02	-5.52
30 MHz to 1 GHz		-52.08	-29.02	-23.06	
1 GHz to 2.108 GHz		-38.30	-19.02	-19.28	
2.182 GHz to 6 GHz		-21.97	-19.02	-2.95	
6 GHz to 18 GHz		-31.19	-19.02	-12.17	
18 GHz to 22 GHz		-30.68	-19.02	-11.66	
DSS_1C_15M + LTE_1C_5M	9 kHz to 150 kHz	-57.54	-49.02	-8.50	
	150 kHz to 30 MHz	-43.42	-39.02	-4.40	
	30 MHz to 1 GHz	-52.54	-29.02	-22.26	
	1 GHz to 2.108 GHz	-38.84	-19.02	-3.77	
	2.182 GHz to 6 GHz	-21.36	-19.02	-2.34	
	6 GHz to 18 GHz	-31.02	-19.02	-11.57	
	18 GHz to 22 GHz	-30.90	-19.02	-11.88	



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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	NR_2C_15M + 20M	9 kHz to 150 kHz	-57.72	-49.02	-8.15
		150 kHz to 30 MHz	-43.05	-39.02	-4.03
		30 MHz to 1 GHz	-51.86	-29.02	-22.21
		1 GHz to 2.108 GHz	-38.68	-19.02	-18.84
		2.182 GHz to 6 GHz	-22.19	-19.02	-1.26
		6 GHz to 18 GHz	-32.60	-19.02	-12.45
		18 GHz to 22 GHz	-29.50	-19.02	-10.48
	DSS_2C_15M + 20M	9 kHz to 150 kHz	-58.06	-49.02	-9.04
		150 kHz to 30 MHz	-43.33	-39.02	-4.31
		30 MHz to 1 GHz	-51.49	-29.02	-22.47
		1 GHz to 2.108 GHz	-38.70	-19.02	-19.68
		2.182 GHz to 6 GHz	-22.57	-19.02	-3.55
		6 GHz to 18 GHz	-31.54	-19.02	-12.52
		18 GHz to 22 GHz	-29.80	-19.02	-10.78
	DSS_1C_20M + NR_1C_15M	9 kHz to 150 kHz	-57.17	-49.02	-8.15
		150 kHz to 30 MHz	-44.17	-39.02	-5.15
		30 MHz to 1 GHz	-52.10	-29.02	-23.08
		1 GHz to 2.108 GHz	-39.57	-19.02	-20.55
		2.182 GHz to 6 GHz	-22.29	-19.02	-3.27
		6 GHz to 18 GHz	-32.32	-19.02	-13.30
		18 GHz to 22 GHz	-30.70	-19.02	-11.68
	DSS_1C_10M + NR_1C_20M + LTE_1C_5M	9 kHz to 150 kHz	-56.73	-49.02	-7.71
		150 kHz to 30 MHz	-44.30	-39.02	-5.28
		30 MHz to 1 GHz	-52.44	-29.02	-23.42
		1 GHz to 2.108 GHz	-40.13	-19.02	-21.11
		2.182 GHz to 6 GHz	-21.91	-19.02	-2.89
		6 GHz to 18 GHz	-31.82	-19.02	-12.80
		18 GHz to 22 GHz	-30.84	-19.02	-11.82
NR_2C_10M + 20M + LTE_1C_5M	9 kHz to 150 kHz	-58.47	-49.02	-9.45	
	150 kHz to 30 MHz	-44.23	-39.02	-5.21	
	30 MHz to 1 GHz	-51.99	-29.02	-22.97	
	1 GHz to 2.108 GHz	-36.10	-19.02	-17.08	
	2.182 GHz to 6 GHz	-22.32	-19.02	-3.30	
	6 GHz to 18 GHz	-32.37	-19.02	-13.35	
	18 GHz to 22 GHz	-30.60	-19.02	-11.58	
DSS_2C_10M + 20M + LTE_1C_5M	9 kHz to 150 kHz	-58.38	-49.02	-9.36	
	150 kHz to 30 MHz	-44.18	-39.02	-5.16	
	30 MHz to 1 GHz	-52.12	-29.02	-23.10	
	1 GHz to 2.108 GHz	-37.89	-19.02	-18.87	
	2.182 GHz to 6 GHz	-21.88	-19.02	-2.86	
	6 GHz to 18 GHz	-31.74	-19.02	-12.72	
	18 GHz to 22 GHz	-30.68	-19.02	-11.66	

Table 8-107. Conducted Spurious Emission Summary Data (AWS_Contiguous_Multi Carrier)



FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22032101-00-R1.A3L	Test Dates: 03/25/2022 - 05/03/2022	EUT Type: RRU(RF4402d)	Page 177 of 225	

Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	NR_2C_5M + 5M	9 kHz to 150 kHz	-56.63	-49.02	-7.61
		150 kHz to 30 MHz	-44.11	-39.02	-5.09
		30 MHz to 1 GHz	-51.81	-29.02	-22.79
		1 GHz to 2.108 GHz	-34.17	-19.02	-15.15
		2.182 GHz to 6 GHz	-21.31	-19.02	-2.29
		6 GHz to 18 GHz	-32.23	-19.02	-13.21
		18 GHz to 22 GHz	-30.47	-19.02	-11.45
	NR_1C_5M + LTE_1C_5M	9 kHz to 150 kHz	-58.04	-49.02	-9.02
		150 kHz to 30 MHz	-44.20	-39.02	-5.18
		30 MHz to 1 GHz	-51.01	-29.02	-21.99
		1 GHz to 2.108 GHz	-33.22	-19.02	-14.20
		2.182 GHz to 6 GHz	-21.28	-19.02	-2.26
		6 GHz to 18 GHz	-31.37	-19.02	-12.35
		18 GHz to 22 GHz	-30.26	-19.02	-11.24
	DSS_1C_10M + NR_1C_5M	9 kHz to 150 kHz	-55.34	-49.02	-16.32
		150 kHz to 30 MHz	-43.87	-39.02	-14.85
		30 MHz to 1 GHz	-51.96	-29.02	-32.94
		1 GHz to 2.108 GHz	-35.20	-19.02	-16.18
		2.182 GHz to 6 GHz	-21.47	-19.02	-2.45
		6 GHz to 18 GHz	-31.89	-19.02	-12.87
		18 GHz to 22 GHz	-30.83	-19.02	-11.81
	DSS_2C_10M + 10M	9 kHz to 150 kHz	-57.06	-49.02	-18.04
		150 kHz to 30 MHz	-43.52	-39.02	-14.50
		30 MHz to 1 GHz	-51.76	-29.02	-32.74
		1 GHz to 2.108 GHz	-34.82	-19.02	-15.80
		2.182 GHz to 6 GHz	-21.40	-19.02	-2.38
		6 GHz to 18 GHz	-31.62	-19.02	-12.60
		18 GHz to 22 GHz	-29.94	-19.02	-10.92
	DSS_1C_10M + NR_1C_5M + LTE_1C_5M	9 kHz to 150 kHz	-57.97	-49.02	-8.95
		150 kHz to 30 MHz	-44.34	-39.02	-5.32
30 MHz to 1 GHz		-52.17	-29.02	-23.15	
1 GHz to 2.108 GHz		-38.07	-19.02	-19.05	
2.182 GHz to 6 GHz		-22.04	-19.02	-3.02	
6 GHz to 18 GHz		-32.30	-19.02	-13.28	
18 GHz to 22 GHz		-29.94	-19.02	-10.92	
DSS_1C_15M + LTE_1C_5M	9 kHz to 150 kHz	-57.01	-49.02	-6.47	
	150 kHz to 30 MHz	-43.48	-39.02	-3.77	
	30 MHz to 1 GHz	-52.48	-29.02	-23.31	
	1 GHz to 2.108 GHz	-36.85	-19.02	-7.34	
	2.182 GHz to 6 GHz	-22.56	-19.02	-1.36	
	6 GHz to 18 GHz	-32.08	-19.02	-11.89	
	18 GHz to 22 GHz	-30.79	-19.02	-11.77	

FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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	NR_2C_15M + 20M	9 kHz to 150 kHz	-57.17	-49.02	-8.15
		150 kHz to 30 MHz	-42.93	-39.02	-3.91
		30 MHz to 1 GHz	-49.99	-29.02	-20.97
		1 GHz to 2.108 GHz	-36.00	-19.02	-16.98
		2.182 GHz to 6 GHz	-22.34	-19.02	-3.32
		6 GHz to 18 GHz	-32.55	-19.02	-13.53
		18 GHz to 22 GHz	-29.75	-19.02	-10.73
	DSS_2C_15M + 20M	9 kHz to 150 kHz	-57.17	-49.02	-8.15
		150 kHz to 30 MHz	-42.93	-39.02	-3.91
		30 MHz to 1 GHz	-49.99	-29.02	-20.97
		1 GHz to 2.108 GHz	-36.00	-19.02	-16.98
		2.182 GHz to 6 GHz	-22.34	-19.02	-3.32
		6 GHz to 18 GHz	-32.55	-19.02	-13.53
		18 GHz to 22 GHz	-29.75	-19.02	-10.73
	DSS_1C_20M + NR_1C_15M	9 kHz to 150 kHz	-56.43	-49.02	-17.41
		150 kHz to 30 MHz	-43.81	-39.02	-14.79
		30 MHz to 1 GHz	-52.47	-29.02	-33.45
		1 GHz to 2.108 GHz	-38.13	-19.02	-19.11
		2.182 GHz to 6 GHz	-22.41	-19.02	-3.39
		6 GHz to 18 GHz	-31.58	-19.02	-12.56
		18 GHz to 22 GHz	-30.40	-19.02	-11.38
	DSS_1C_10M + NR_1C_20M + LTE_1C_5M	9 kHz to 150 kHz	-58.27	-49.02	-9.25
		150 kHz to 30 MHz	-44.45	-39.02	-5.43
		30 MHz to 1 GHz	-51.61	-29.02	-22.59
1 GHz to 2.108 GHz		-34.49	-19.02	-15.47	
2.182 GHz to 6 GHz		-22.45	-19.02	-3.43	
6 GHz to 18 GHz		-32.13	-19.02	-13.11	
18 GHz to 22 GHz		-30.59	-19.02	-11.57	
NR_2C_10M + 20M + LTE_1C_5M	9 kHz to 150 kHz	-58.60	-49.02	-9.58	
	150 kHz to 30 MHz	-44.17	-39.02	-5.15	
	30 MHz to 1 GHz	-51.80	-29.02	-22.78	
	1 GHz to 2.108 GHz	-35.93	-19.02	-16.91	
	2.182 GHz to 6 GHz	-22.38	-19.02	-3.36	
	6 GHz to 18 GHz	-32.38	-19.02	-13.36	
	18 GHz to 22 GHz	-30.09	-19.02	-11.07	
DSS_2C_10M + 20M + LTE_1C_5M	9 kHz to 150 kHz	-57.85	-49.02	-8.83	
	150 kHz to 30 MHz	-44.27	-39.02	-5.25	
	30 MHz to 1 GHz	-52.25	-29.02	-23.23	
	1 GHz to 2.108 GHz	-36.39	-19.02	-17.37	
	2.182 GHz to 6 GHz	-21.44	-19.02	-2.42	
	6 GHz to 18 GHz	-31.16	-19.02	-12.14	
	18 GHz to 22 GHz	-30.59	-19.02	-11.57	

Table 8-108. Conducted Spurious Emission Summary Data (PCS_Non-Contiguous_Multi Carrier)

FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
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Channel	Configuration	Measurement Range	Level (dBm)	Limit (dBm)	Worst Margin (dB)
			QPSK		
Middle	PCS_Nr_1C_5M + ASW_Nr_1C_5M	9 kHz to 150 kHz	-52.74	-49.02	-3.72
		150 kHz to 30 MHz	-47.57	-39.02	-8.55
		30 MHz to 1 GHz	-47.31	-29.02	-18.29
		1 GHz to 1.928 GHz	-23.57	-19.02	-4.55
		1.99GHz to 2.11 GHz	-29.72	-19.02	-10.70
		2.182 GHz to 6 GHz	-21.97	-19.02	-2.95
		6 GHz to 18 GHz	-31.21	-19.02	-12.19
		18 GHz to 22 GHz	-30.66	-19.02	-11.64
	PCS_Nr_1C_15M + ASW_Nr_2C_10M + 20M + LTE 1C 5M	9 kHz to 150 kHz	-53.76	-49.02	-4.74
		150 kHz to 30 MHz	-57.67	-39.02	-18.65
		30 MHz to 1 GHz	-51.11	-29.02	-22.09
		1 GHz to 1.928 GHz	-26.97	-19.02	-7.95
		1.99GHz to 2.11 GHz	-29.16	-19.02	-10.14
		2.182 GHz to 6 GHz	-25.80	-19.02	-6.78
		6 GHz to 18 GHz	-31.66	-19.02	-12.64
		18 GHz to 22 GHz	-30.53	-19.02	-11.51

Table 8-109. Conducted Spurious Emission Summary Data (AWS and PCS Inter band CA)

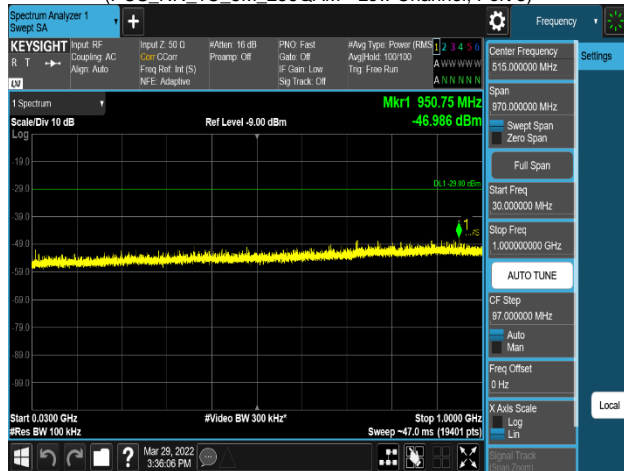
FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22032101-00-R1.A3L	Test Dates: 03/25/2022 - 05/03/2022	EUT Type: RRU(RF4402d)	Page 180 of 225	



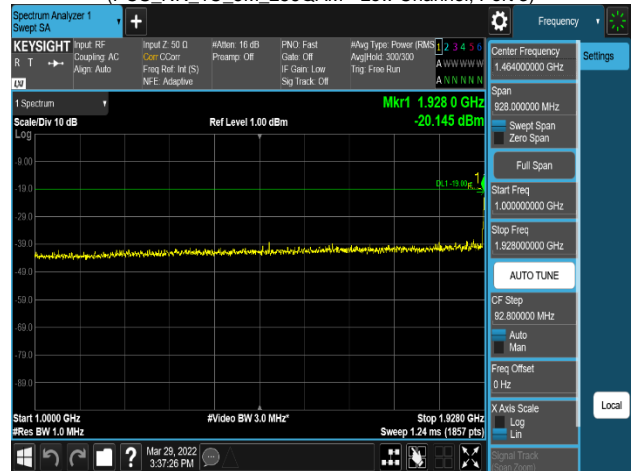
Plot 8-288. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)



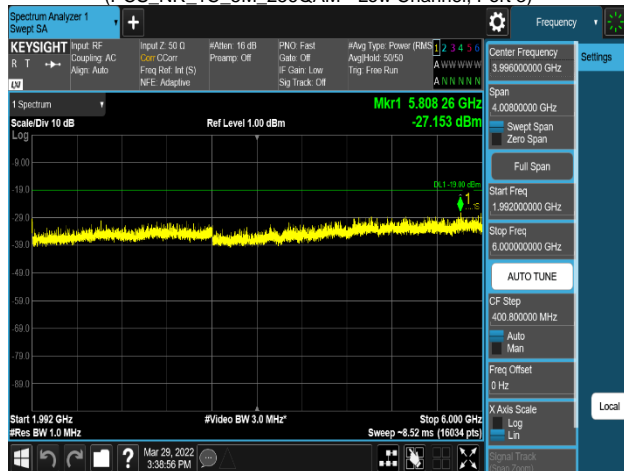
Plot 8-289. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)



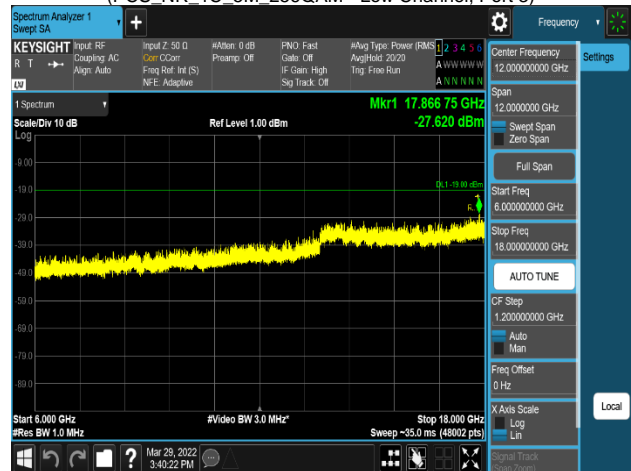
Plot 8-290. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)





Plot 8-291. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)

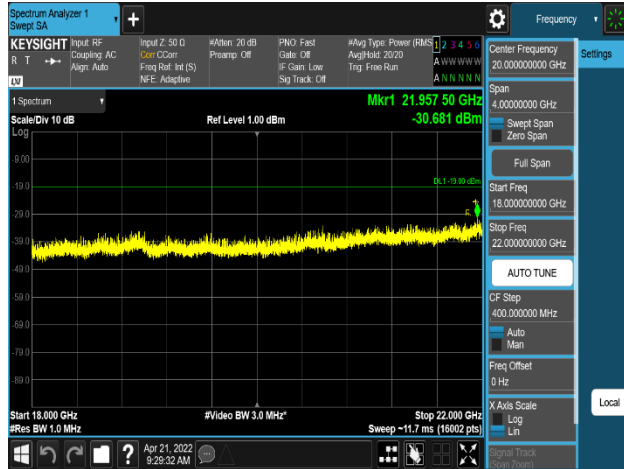


Plot 8-292. Conducted Spurious Emission Plot
1.992 GHz to 6 GHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)

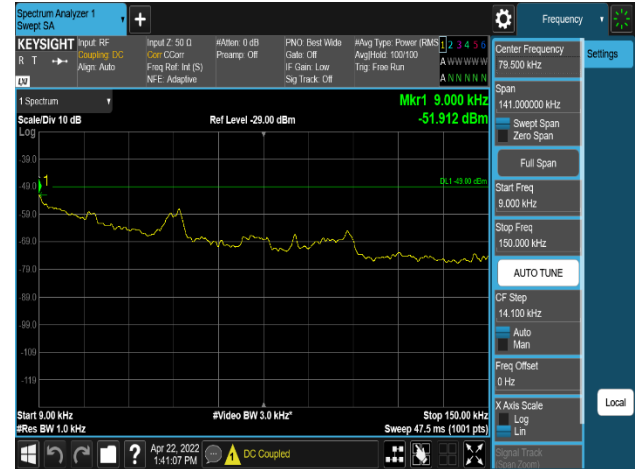


Plot 8-293. Conducted Spurious Emission Plot
6 GHz to 18 GHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)

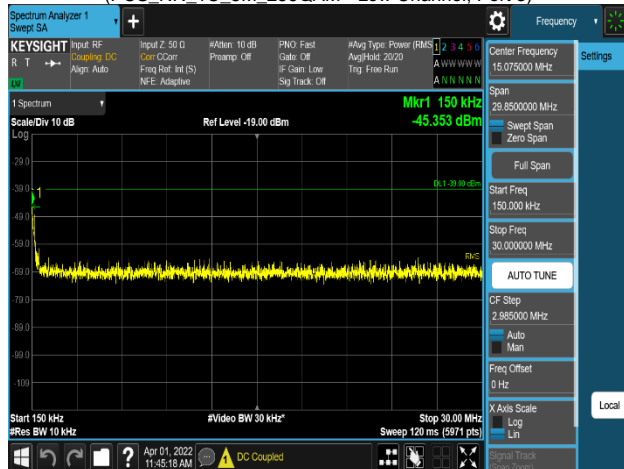
FCC ID: A3LRF4402D-D1A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22032101-00-R1.A3L	Test Dates: 03/25/2022 - 05/03/2022	EUT Type: RRU(RF4402d)		Page 181 of 225



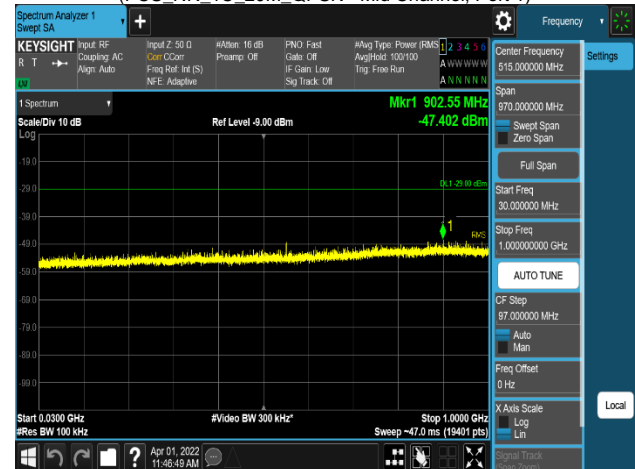
Plot 8-294. Conducted Spurious Emission Plot
18 GHz to 22 GHz
(PCS_NR_1C_5M_256QAM - Low Channel, Port 3)



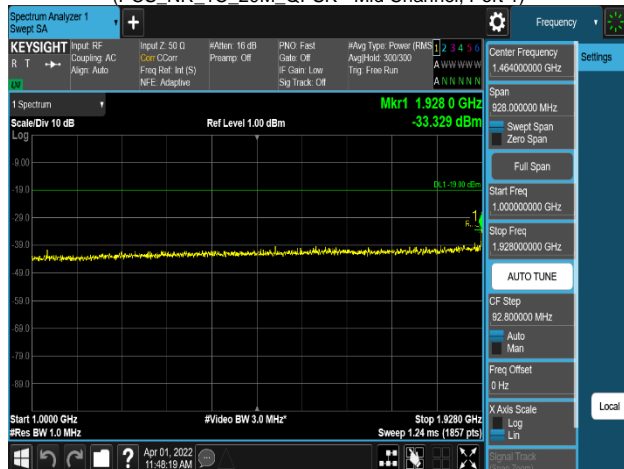
Plot 8-295. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)



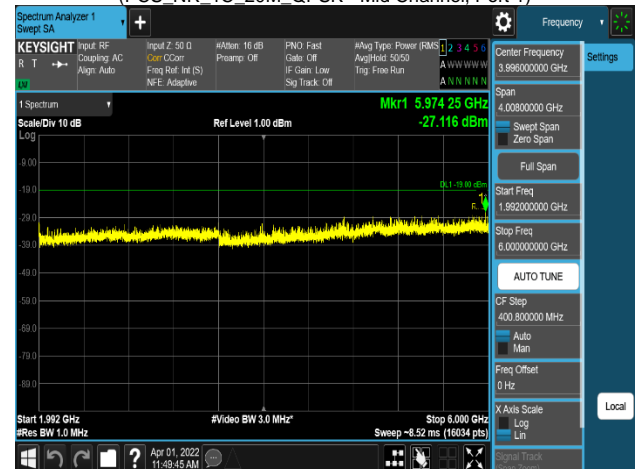
Plot 8-296. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)



Plot 8-297. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)

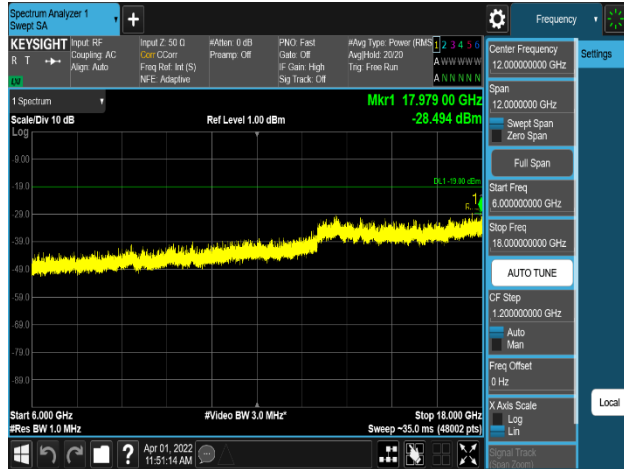


Plot 8-298. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)

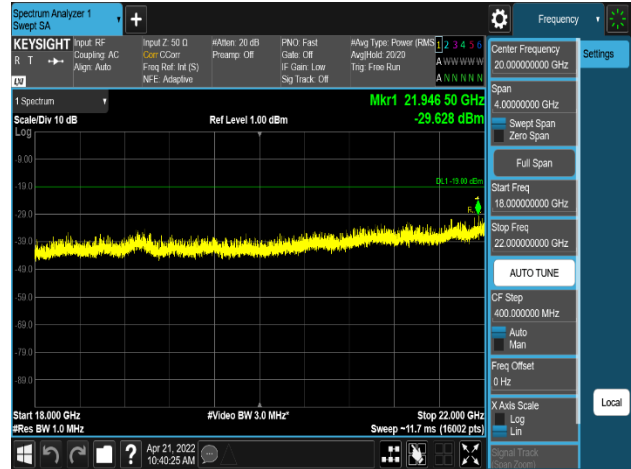


Plot 8-299. Conducted Spurious Emission Plot
1.992 GHz to 6 GHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)

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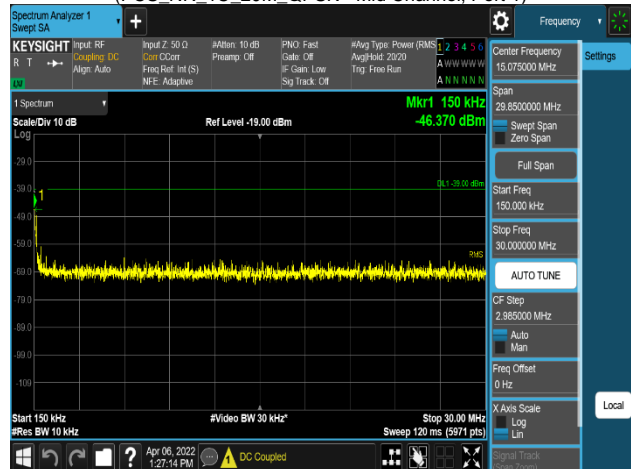
Plot 8-300. Conducted Spurious Emission Plot
6 GHz to 18 GHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)



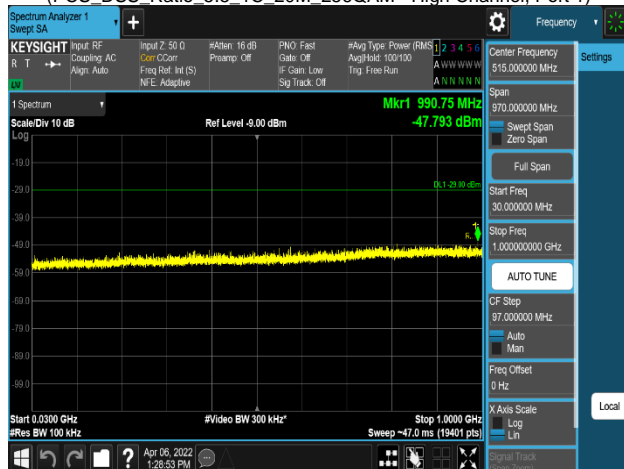
Plot 8-301. Conducted Spurious Emission Plot
18 GHz to 22 GHz
(PCS_NR_1C_20M_QPSK - Mid Channel, Port 1)



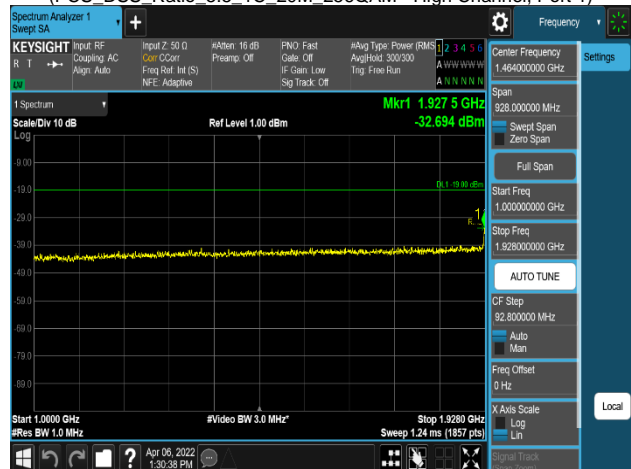
Plot 8-302. Conducted Spurious Emission Plot
9 kHz to 150 MHz
(PCS_DSS_Ratio_5:5_1C_20M_256QAM - High Channel, Port 1)



Plot 8-303. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(PCS_DSS_Ratio_5:5_1C_20M_256QAM - High Channel, Port 1)

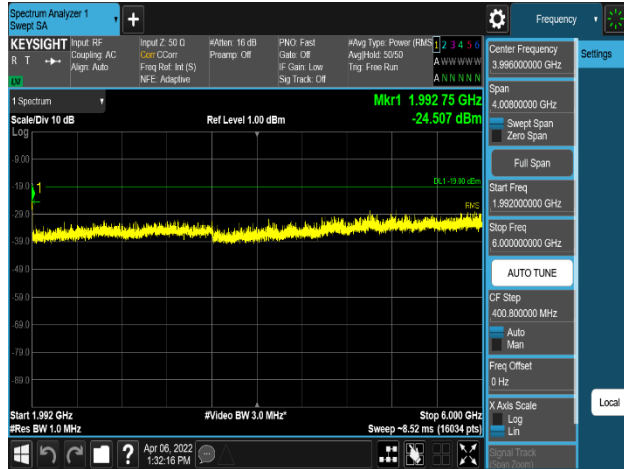


Plot 8-304. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(PCS_DSS_Ratio_5:5_1C_20M_256QAM - High Channel, Port 1)

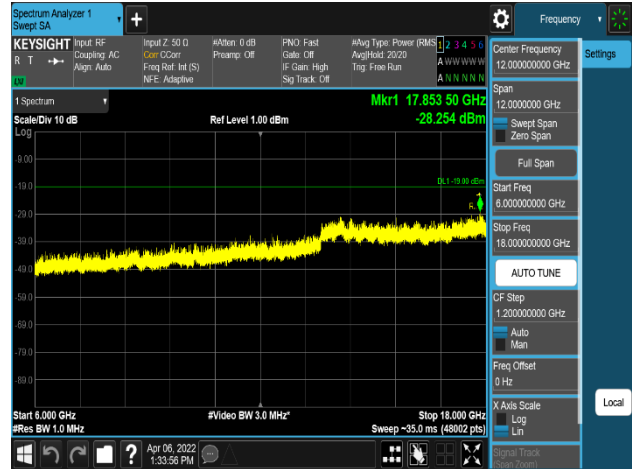


Plot 8-305. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz
(PCS_DSS_Ratio_5:5_1C_20M_256QAM - High Channel, Port 1)

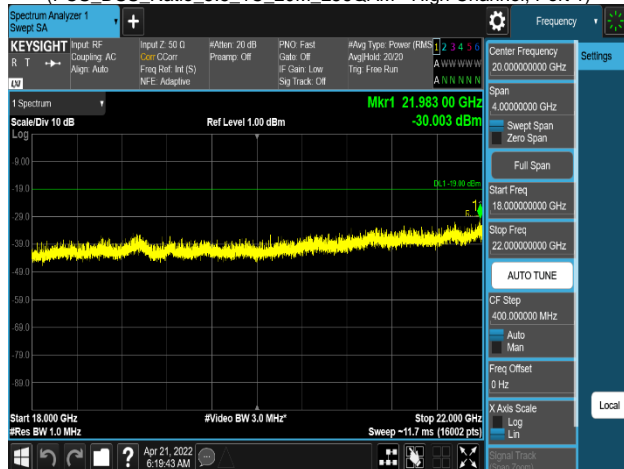
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Plot 8-306. Conducted Spurious Emission Plot
1.992 GHz to 6 GHz
(PCS_DSS_Ratio 5:5 1C 20M 256QAM - High Channel, Port 1)



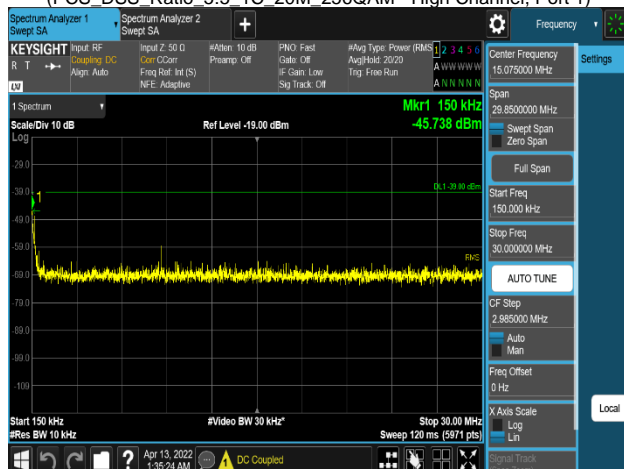
Plot 8-307. Conducted Spurious Emission Plot
6 GHz to 18 GHz
(PCS_DSS_Ratio 5:5 1C 20M 256QAM - High Channel, Port 1)



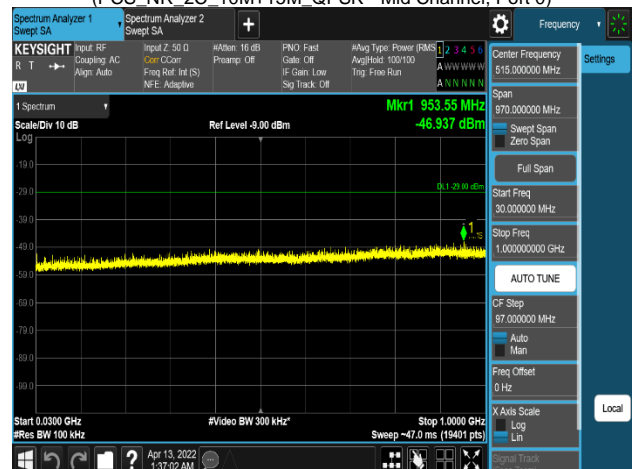
Plot 8-308. Conducted Spurious Emission Plot
18 GHz to 22 GHz
(PCS_DSS_Ratio 5:5 1C 20M 256QAM - High Channel, Port 1)



Plot 8-309. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)

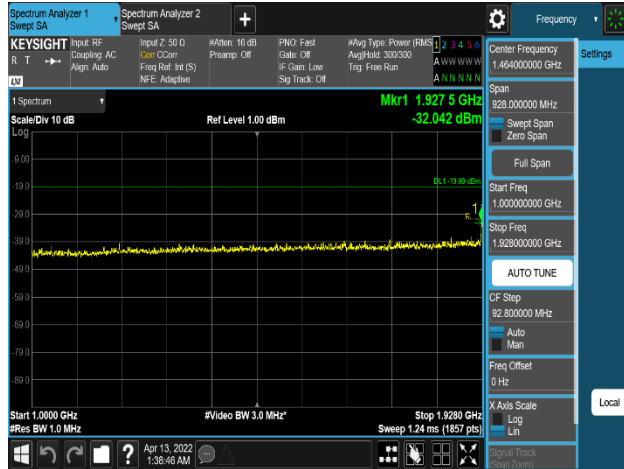


Plot 8-310. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)

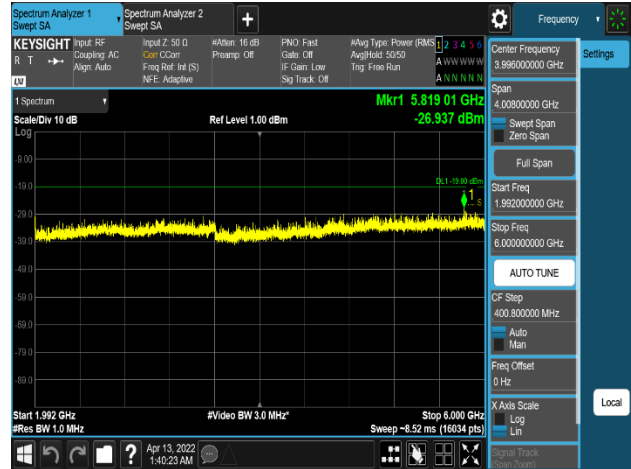


Plot 8-311. Conducted Spurious Emission Plot
30 MHz to 1 GHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)

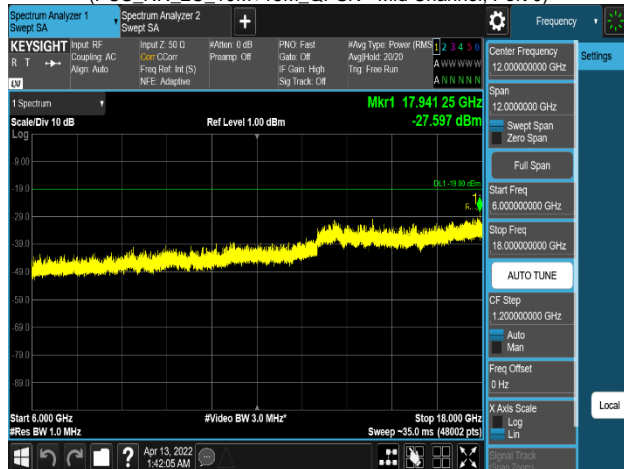
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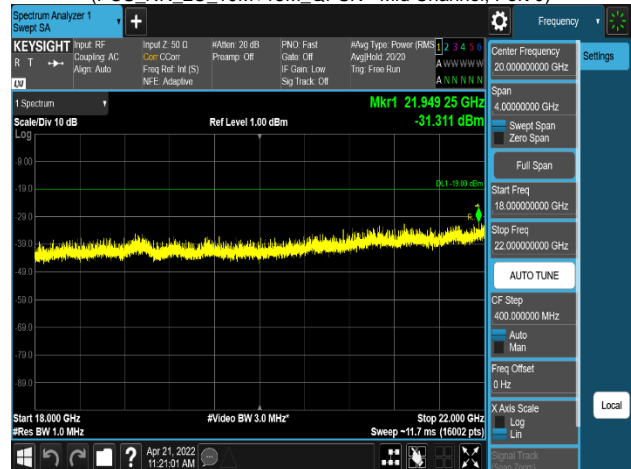
Plot 8-312. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)



Plot 8-313. Conducted Spurious Emission Plot
1.992 GHz to 6 GHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)



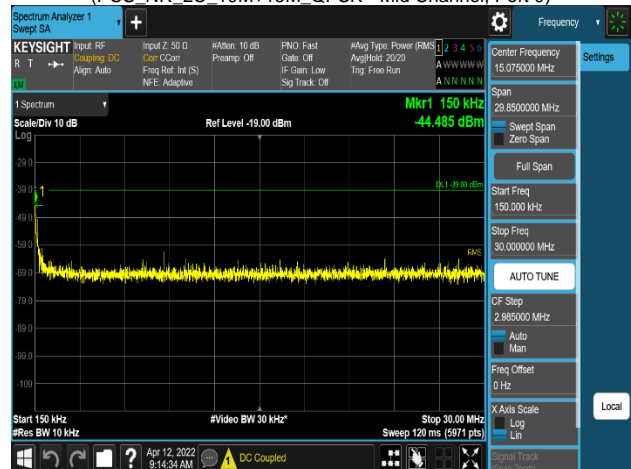
Plot 8-314. Conducted Spurious Emission Plot
6 GHz to 18 GHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)





Plot 8-315. Conducted Spurious Emission Plot
18 GHz to 22 GHz
(PCS_NR_2C_10M+15M_QPSK - Mid Channel, Port 0)

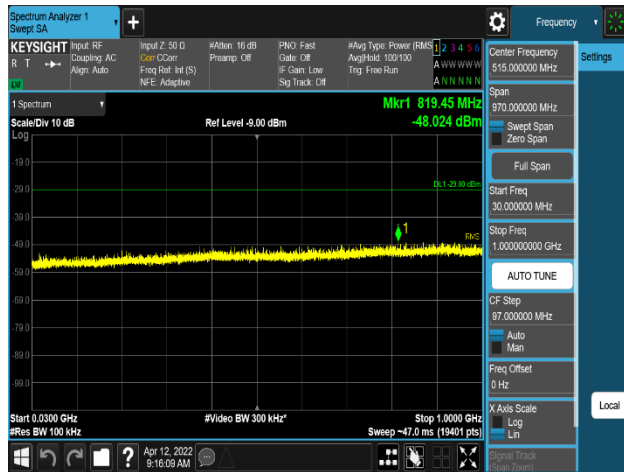


Plot 8-316. Conducted Spurious Emission Plot
9 kHz to 150 kHz
(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)



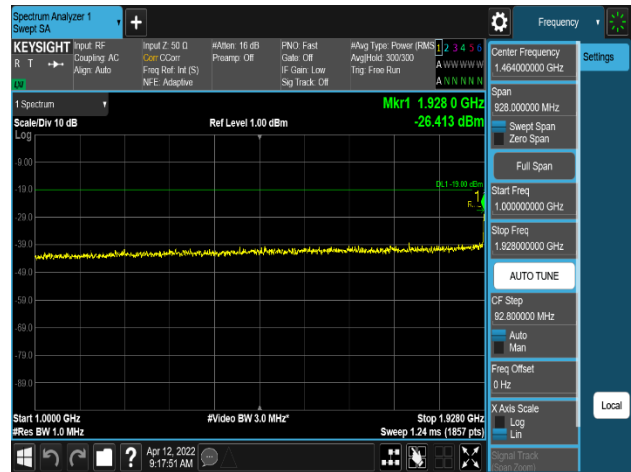
Plot 8-317. Conducted Spurious Emission Plot
150 kHz to 30 MHz
(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)

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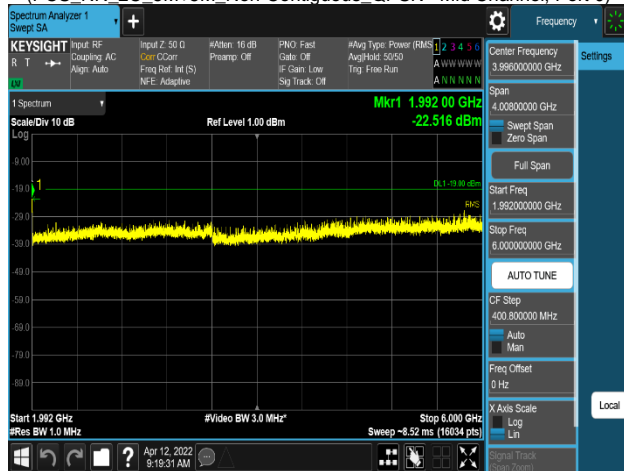
Plot 8-318. Conducted Spurious Emission Plot
30 MHz to 1 GHz

(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)



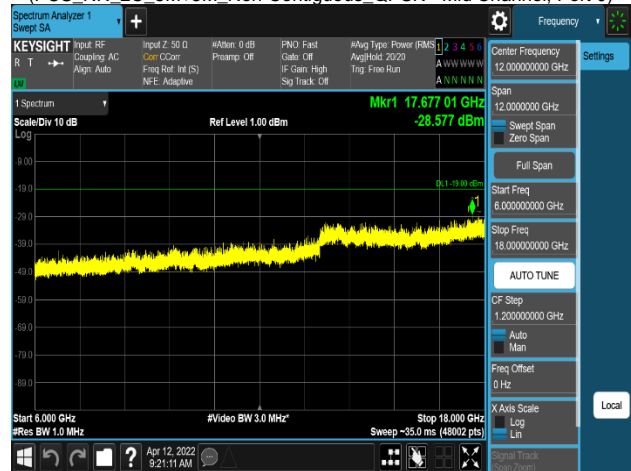
Plot 8-319. Conducted Spurious Emission Plot
1 GHz to 1.928 GHz

(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)



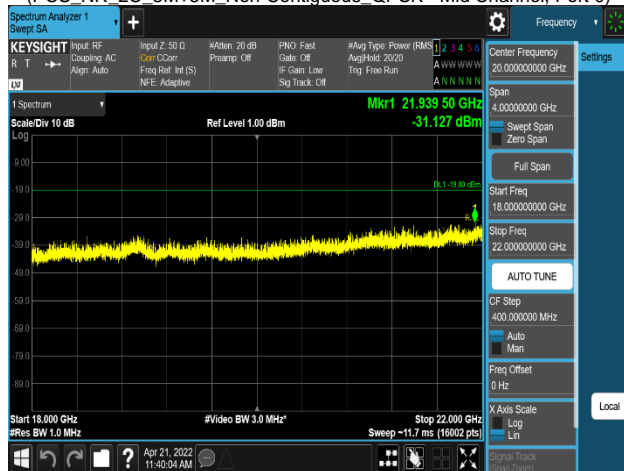
Plot 8-320. Conducted Spurious Emission Plot
1.992 GHz to 6 GHz

(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)



Plot 8-321. Conducted Spurious Emission Plot
6 GHz to 18 GHz

(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)



Plot 8-322. Conducted Spurious Emission Plot
18 GHz to 22 GHz

(PCS_NR_2C_5M+5M_Non-Contiguous_QPSK - Mid Channel, Port 0)



Plot 8-323. Conducted Spurious Emission Plot
9 kHz to 150 kHz

(AWS_NR_1C_5M_16QAM - High Channel, Port 2)

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