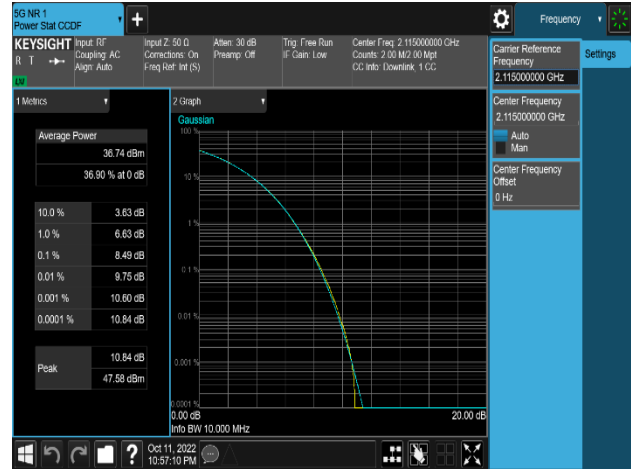
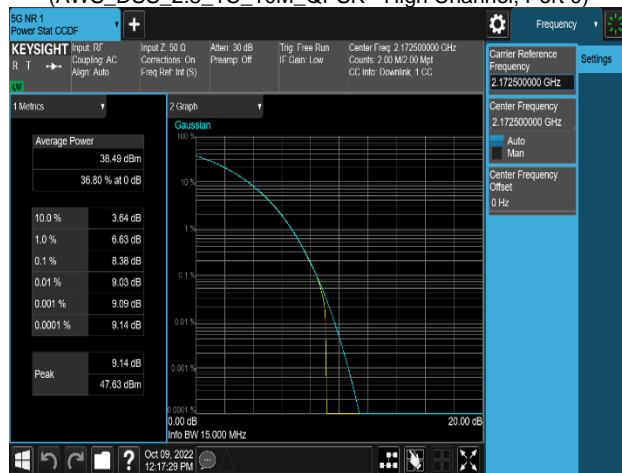


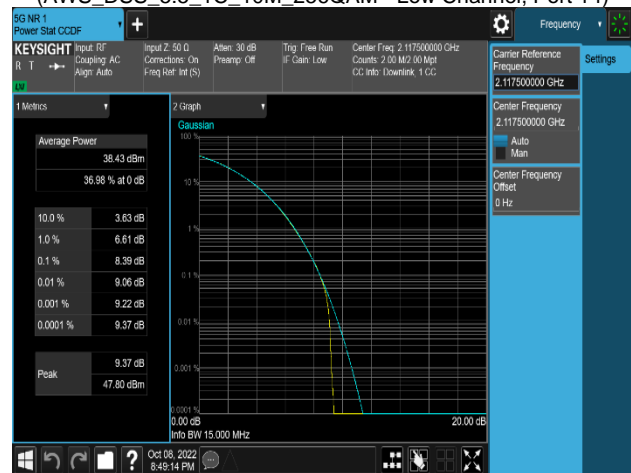
Plot 8-127. Peak To Average Power Ratio Plot (AWS_DSS_2:8_1C_10M_QPSK - High Channel, Port 0)



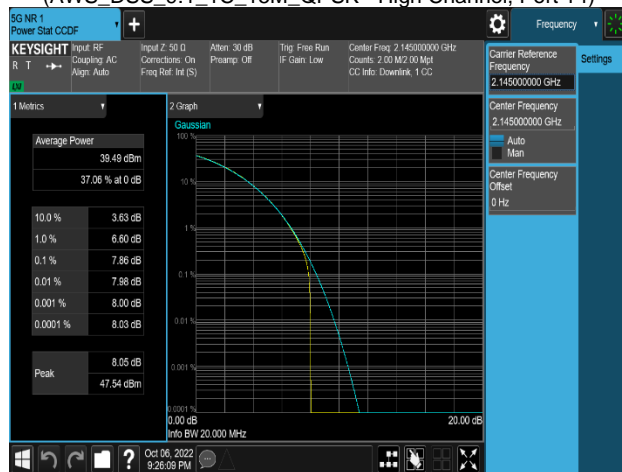
Plot 8-128. Peak To Average Power Ratio Plot (AWS_DSS_5:5_1C_10M_256QAM - Low Channel, Port 14)



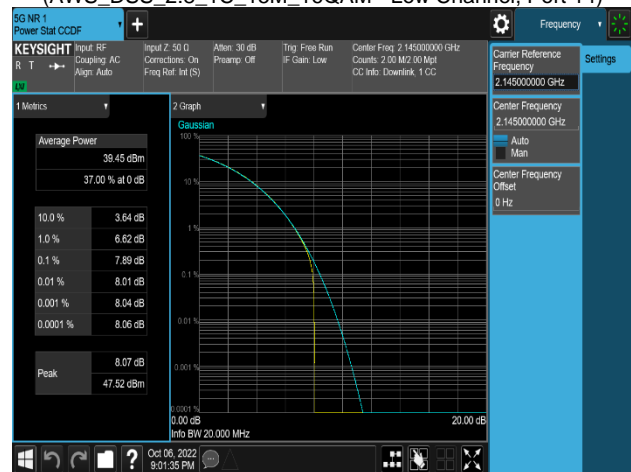
Plot 8-129. Peak To Average Power Ratio Plot (AWS_DSS_9:1_1C_15M_QPSK - High Channel, Port 14)



Plot 8-130. Peak To Average Power Ratio Plot (AWS_DSS_2:8_1C_15M_16QAM - Low Channel, Port 14)



Plot 8-131. Peak To Average Power Ratio Plot (AWS_DSS_2:8_1C_20M_QPSK - Mid Channel, Port 1)



Plot 8-132. Peak To Average Power Ratio Plot (AWS_DSS_9:1_1C_20M_256QAM - Mid Channel, Port 1)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 169 of 319



Plot 8-133. Occupied Bandwidth Plot
(AWS_DSS_1C_10M + NR_1C_5M + LTE_1C_5M_QPSK – High Channel, Port 1)



Plot 8-134. Occupied Bandwidth Plot
(AWS_DSS_1C_20M + LTE_2C_15M+15M_16QAM – High Channel, Port 1)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 170 of 319	

8.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at 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 5.7.3

Test Setting

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW: Please see test notes below.
4. $VBW \geq 3 \times RBW$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average
8. Sweep time = auto couple
9. 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.

Test Setup

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

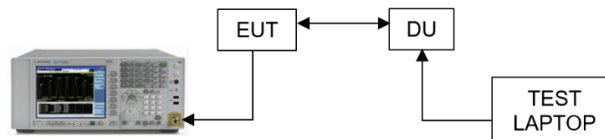






Figure 8-4. Test Instrument & Measurement Setup

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 171 of 319	

Test Notes



1. 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.
2. When the channel edge detect with a margin of under 1dB to Limit, That used to integration method was performed using the spectrum analyzer's band power functions according to ANSI C63.26-2015 – Section 5.7. The spectrum analyzer marker was placed at one-half of the RBW away from the band edge. The integration value was set to a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter.
3. The limits were adjusted by a factor of $[-10 \cdot \log(16)]$ dB to account for the device operation as a 16 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:
 $MIMO\ Factor = 10 \cdot \log(16) = 12.04\ dB$

Frequency range	Basic Limit (dBm/MHz)	MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
Low Frequency block – 1MHz	-13	12.04	0	-25.04
High Frequency block + 1MHz	-13	12.04	0	-25.04
Note: Adjusted limit (dBm/MHz) = Basic limit (dBm/1MHz) - MIMO Factor - RBW Factor				

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 172 of 319	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	16	1929 to 1930	-36.05	-36.31	-35.89	-36.19	-25.04
	17	1929 to 1930	-35.63	-35.90	-35.80	-35.71	
	18	1929 to 1930	-35.68	-35.95	-36.19	-35.87	
	19	1929 to 1930	-35.91	-36.00	-35.83	-35.53	
	20	1929 to 1930	-35.92	-36.06	-36.31	-35.79	
	21	1929 to 1930	-35.50	-35.69	-35.84	-35.24	
	22	1929 to 1930	-35.51	-35.58	-35.92	-35.61	
	23	1929 to 1930	-35.49	-35.79	-35.77	-35.53	
	24	1929 to 1930	-35.78	-35.86	-35.95	-35.39	
	25	1929 to 1930	-35.70	-36.04	-35.93	-35.78	
	26	1929 to 1930	-36.01	-35.96	-36.22	-35.67	
	27	1929 to 1930	-35.91	-36.05	-35.77	-35.86	
	28	1929 to 1930	-36.03	-35.92	-36.12	-36.08	
	29	1929 to 1930	-35.60	-35.58	-35.86	-35.69	
	30	1929 to 1930	-35.66	-36.23	-36.16	-35.91	
31	1929 to 1930	-35.76	-35.84	-36.15	-35.82		
High	16	1990 to 1991	-35.22	-34.88	-34.79	-34.75	
	17	1990 to 1991	-34.52	-34.44	-34.18	-34.55	
	18	1990 to 1991	-34.69	-34.62	-34.95	-34.76	
	19	1990 to 1991	-34.45	-34.24	-34.29	-34.47	
	20	1990 to 1991	-34.95	-34.88	-34.49	-35.14	
	21	1990 to 1991	-34.02	-34.36	-33.76	-34.24	
	22	1990 to 1991	-34.47	-34.28	-34.43	-34.48	
	23	1990 to 1991	-34.37	-34.33	-34.14	-34.36	
	24	1990 to 1991	-34.57	-34.37	-34.17	-34.14	
	25	1990 to 1991	-34.35	-34.19	-33.97	-34.63	
	26	1990 to 1991	-34.64	-34.73	-34.35	-34.48	
	27	1990 to 1991	-34.40	-34.11	-34.42	-34.13	
	28	1990 to 1991	-34.81	-34.76	-34.51	-34.63	
	29	1990 to 1991	-34.35	-34.36	-33.96	-34.30	
	30	1990 to 1991	-34.49	-34.93	-34.82	-35.03	
31	1990 to 1991	-34.47	-34.59	-34.25	-34.49		

Table 8-67. Band Edge Emission Summary Data (PCS_NR_1C_5M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 173 of 319	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	16	1929 to 1930	-33.61	-33.37	-33.38	-33.65	-25.04
	17	1929 to 1930	-33.38	-33.19	-33.24	-33.33	
	18	1929 to 1930	-33.70	-33.40	-33.15	-33.62	
	19	1929 to 1930	-33.18	-33.22	-32.81	-32.68	
	20	1929 to 1930	-33.37	-32.99	-33.50	-33.81	
	21	1929 to 1930	-33.14	-33.00	-32.43	-32.97	
	22	1929 to 1930	-33.32	-33.22	-32.81	-33.42	
	23	1929 to 1930	-33.25	-33.06	-32.98	-33.28	
	24	1929 to 1930	-33.77	-33.19	-33.33	-33.37	
	25	1929 to 1930	-33.10	-33.09	-33.02	-33.20	
	26	1929 to 1930	-33.35	-32.61	-32.87	-33.15	
	27	1929 to 1930	-33.65	-33.20	-33.42	-33.62	
	28	1929 to 1930	-33.53	-33.43	-33.48	-33.49	
	29	1929 to 1930	-32.93	-33.14	-33.17	-32.67	
	30	1929 to 1930	-33.57	-33.25	-33.25	-33.14	
31	1929 to 1930	-33.20	-33.12	-33.39	-33.01		
High	16	1990 to 1991	-33.07	-32.88	-33.27	-32.58	
	17	1990 to 1991	-32.39	-32.35	-32.53	-32.44	
	18	1990 to 1991	-32.71	-33.24	-33.08	-32.39	
	19	1990 to 1991	-32.72	-32.54	-32.58	-32.72	
	20	1990 to 1991	-33.29	-32.72	-33.15	-32.80	
	21	1990 to 1991	-32.47	-32.20	-32.38	-32.50	
	22	1990 to 1991	-32.58	-32.47	-32.57	-32.13	
	23	1990 to 1991	-32.60	-32.29	-32.39	-32.28	
	24	1990 to 1991	-32.30	-32.34	-32.71	-32.66	
	25	1990 to 1991	-32.41	-32.55	-32.13	-32.10	
	26	1990 to 1991	-32.96	-32.59	-32.47	-32.48	
	27	1990 to 1991	-32.35	-32.49	-32.64	-32.65	
	28	1990 to 1991	-32.51	-32.68	-32.77	-32.80	
	29	1990 to 1991	-32.49	-32.37	-32.33	-32.01	
	30	1990 to 1991	-32.89	-32.74	-33.23	-33.06	
31	1990 to 1991	-32.71	-32.64	-32.50	-31.64		

Table 8-68. Band Edge Emission Summary Data (PCS_NR_1C_10M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 174 of 319	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	16	1929 to 1930	-29.78	-30.03	-29.78	-29.50	-25.04
	17	1929 to 1930	-30.07	-29.91	-29.88	-29.68	
	18	1929 to 1930	-29.62	-29.79	-29.70	-29.64	
	19	1929 to 1930	-29.59	-29.71	-29.38	-29.88	
	20	1929 to 1930	-30.20	-29.99	-29.47	-29.83	
	21	1929 to 1930	-29.83	-29.98	-29.63	-29.86	
	22	1929 to 1930	-29.38	-29.77	-29.36	-29.28	
	23	1929 to 1930	-29.65	-29.63	-29.74	-29.86	
	24	1929 to 1930	-29.54	-29.99	-29.58	-29.80	
	25	1929 to 1930	-30.11	-29.59	-29.66	-29.59	
	26	1929 to 1930	-29.77	-29.21	-29.41	-29.32	
	27	1929 to 1930	-30.07	-30.09	-29.68	-29.78	
	28	1929 to 1930	-29.66	-29.76	-29.31	-29.97	
	29	1929 to 1930	-29.70	-29.84	-29.35	-29.63	
	30	1929 to 1930	-30.26	-29.95	-29.80	-29.50	
	31	1929 to 1930	-29.73	-29.75	-29.60	-29.91	
High	16	1990 to 1991	-29.44	-29.62	-29.54	-29.73	
	17	1990 to 1991	-29.24	-29.32	-29.41	-29.38	
	18	1990 to 1991	-29.13	-29.34	-29.32	-29.43	
	19	1990 to 1991	-29.13	-29.32	-29.43	-29.19	
	20	1990 to 1991	-29.48	-29.50	-29.54	-29.45	
	21	1990 to 1991	-29.05	-29.02	-29.37	-29.44	
	22	1990 to 1991	-29.06	-29.36	-29.34	-29.17	
	23	1990 to 1991	-29.16	-29.39	-29.74	-28.86	
	24	1990 to 1991	-28.99	-28.66	-28.88	-28.89	
	25	1990 to 1991	-29.24	-29.19	-29.40	-29.33	
	26	1990 to 1991	-29.19	-28.95	-29.05	-28.75	
	27	1990 to 1991	-29.40	-29.29	-29.56	-29.58	
	28	1990 to 1991	-29.29	-29.52	-29.42	-29.62	
	29	1990 to 1991	-29.23	-29.20	-28.76	-29.19	
	30	1990 to 1991	-29.34	-29.11	-29.53	-29.47	
31	1990 to 1991	-28.97	-29.15	-29.26	-29.26		

Table 8-69. Band Edge Emission Summary Data (PCS_NR_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 175 of 319	

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	16	1929 to 1930	-29.21	-29.22	-29.18	-28.43	-25.04
	17	1929 to 1930	-28.96	-28.98	-29.13	-28.84	
	18	1929 to 1930	-28.76	-29.16	-28.87	-28.56	
	19	1929 to 1930	-29.05	-28.94	-28.93	-28.73	
	20	1929 to 1930	-28.86	-29.02	-29.34	-28.98	
	21	1929 to 1930	-28.79	-28.80	-28.76	-28.80	
	22	1929 to 1930	-28.81	-28.75	-28.70	-28.78	
	23	1929 to 1930	-28.76	-28.83	-29.11	-28.52	
	24	1929 to 1930	-28.47	-28.58	-28.97	-28.59	
	25	1929 to 1930	-28.71	-28.91	-29.17	-28.66	
	26	1929 to 1930	-28.62	-27.99	-28.77	-28.14	
	27	1929 to 1930	-29.06	-29.21	-29.43	-29.19	
	28	1929 to 1930	-28.46	-28.67	-28.93	-28.57	
	29	1929 to 1930	-28.88	-29.16	-28.83	-28.52	
	30	1929 to 1930	-29.09	-28.76	-29.02	-28.45	
	31	1929 to 1930	-29.33	-29.43	-29.37	-28.82	
High	16	1990 to 1991	-28.68	-28.67	-28.85	-28.55	
	17	1990 to 1991	-28.42	-28.54	-28.79	-28.50	
	18	1990 to 1991	-28.50	-28.42	-28.71	-28.37	
	19	1990 to 1991	-28.43	-28.26	-28.11	-28.50	
	20	1990 to 1991	-28.39	-28.44	-28.64	-28.58	
	21	1990 to 1991	-28.24	-28.40	-28.34	-28.19	
	22	1990 to 1991	-28.18	-27.96	-28.27	-28.31	
	23	1990 to 1991	-28.00	-28.24	-28.67	-28.22	
	24	1990 to 1991	-27.93	-28.22	-28.11	-27.78	
	25	1990 to 1991	-27.88	-28.27	-28.50	-28.60	
	26	1990 to 1991	-28.09	-28.29	-28.59	-28.05	
	27	1990 to 1991	-28.77	-28.29	-28.54	-28.42	
	28	1990 to 1991	-27.83	-28.46	-28.62	-27.86	
	29	1990 to 1991	-28.16	-27.88	-28.25	-28.24	
	30	1990 to 1991	-28.13	-28.36	-28.81	-28.30	
31	1990 to 1991	-28.40	-27.95	-28.60	-28.56		

Table 8-70. Band Edge Emission Summary Data (PCS_NR_1C_20M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 176 of 319	

Channel	Ratio	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
Low	LTE:5 NR:5	16	1929 to 1930	-29.94	-29.77	-28.51	-29.55	-25.04
		17	1929 to 1930	-30.13	-30.43	-29.20	-29.60	
		18	1929 to 1930	-30.32	-29.95	-28.52	-30.22	
		19	1929 to 1930	-29.64	-29.89	-28.66	-29.69	
		20	1929 to 1930	-30.06	-30.33	-28.71	-29.93	
		21	1929 to 1930	-29.66	-29.80	-28.92	-29.93	
		22	1929 to 1930	-30.33	-30.21	-28.68	-30.31	
		23	1929 to 1930	-30.02	-30.19	-29.22	-30.14	
		24	1929 to 1930	-29.97	-29.85	-28.48	-30.37	
		25	1929 to 1930	-29.53	-30.14	-29.08	-30.56	
		26	1929 to 1930	-29.44	-29.59	-28.65	-29.82	
		27	1929 to 1930	-30.94	-30.15	-29.57	-30.77	
		28	1929 to 1930	-29.82	-29.77	-28.83	-29.78	
		29	1929 to 1930	-29.57	-30.37	-29.24	-30.53	
30		1929 to 1930	-30.76	-30.35	-29.04	-29.94		
31		1929 to 1930	-30.80	-30.28	-29.39	-30.46		
High		16	1990 to 1991	-28.81	-29.35	-29.46	-28.14	
		17	1990 to 1991	-28.81	-30.00	-29.52	-28.61	
		18	1990 to 1991	-29.56	-29.89	-29.39	-27.84	
		19	1990 to 1991	-29.50	-30.45	-29.26	-28.92	
		20	1990 to 1991	-30.01	-30.15	-29.65	-28.44	
		21	1990 to 1991	-29.34	-30.50	-29.30	-28.52	
		22	1990 to 1991	-29.37	-29.94	-29.18	-27.58	
		23	1990 to 1991	-29.23	-30.43	-29.77	-28.18	
		24	1990 to 1991	-29.35	-29.57	-29.20	-27.18	
		25	1990 to 1991	-29.18	-30.54	-29.13	-28.16	
		26	1990 to 1991	-29.57	-30.39	-29.29	-27.78	
		27	1990 to 1991	-30.15	-30.56	-29.44	-28.69	
		28	1990 to 1991	-29.74	-30.32	-29.37	-28.05	
		29	1990 to 1991	-28.85	-30.87	-29.66	-28.47	
30	1990 to 1991	-30.01	-30.04	-29.99	-28.86			
31	1990 to 1991	-29.57	-30.46	-29.77	-28.64			
Low	LTE:9 NR:1	16	1929 to 1930	-27.82	-29.04	-27.30	-29.27	-25.04
		17	1929 to 1930	-28.74	-30.07	-28.69	-29.50	
		30	1929 to 1930	-28.57	-30.18	-28.81	-30.16	
		31	1929 to 1930	-28.64	-30.38	-29.35	-30.13	
High		16	1990 to 1991	-28.23	-28.92	-29.21	-28.72	
		17	1990 to 1991	-28.31	-29.42	-28.99	-29.38	
		30	1990 to 1991	-28.43	-29.91	-29.86	-29.32	
		31	1990 to 1991	-28.32	-29.53	-29.59	-28.71	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 177 of 319	

Low	LTE:2 NR:8	16	1929 to 1930	-30.78	-30.90	-29.64	-30.77	-25.04
		17	1929 to 1930	-30.76	-31.13	-30.03	-30.95	
		30	1929 to 1930	-31.21	-30.73	-30.54	-31.59	
		31	1929 to 1930	-31.42	-31.55	-31.30	-31.65	
High		16	1990 to 1991	-29.41	-30.24	-30.15	-29.16	
		17	1990 to 1991	-29.53	-30.35	-30.27	-29.46	
		30	1990 to 1991	-30.09	-29.70	-29.15	-29.23	
		31	1990 to 1991	-29.58	-30.24	-29.44	-29.52	

Table 8-71. Band Edge Emission Summary Data (PCS_DSS_1C_10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 178 of 319

Channel	Ratio	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
Low	LTE:5 NR:5	16	1929 to 1930	-32.53	-32.97	-32.73	-32.64	-25.04
		17	1929 to 1930	-32.68	-32.81	-32.11	-33.00	
		18	1929 to 1930	-32.51	-32.25	-32.79	-32.85	
		19	1929 to 1930	-32.90	-32.66	-32.67	-33.18	
		20	1929 to 1930	-32.48	-31.57	-31.85	-31.70	
		21	1929 to 1930	-32.63	-32.41	-32.71	-32.76	
		22	1929 to 1930	-32.64	-32.33	-32.34	-32.42	
		23	1929 to 1930	-32.63	-32.55	-32.97	-33.29	
		24	1929 to 1930	-32.68	-32.33	-32.59	-32.78	
		25	1929 to 1930	-33.20	-32.69	-33.11	-33.29	
		26	1929 to 1930	-32.67	-31.96	-31.77	-32.66	
		27	1929 to 1930	-33.25	-32.68	-33.01	-33.58	
		28	1929 to 1930	-32.98	-32.22	-32.98	-32.81	
		29	1929 to 1930	-32.59	-32.83	-32.70	-32.69	
30		1929 to 1930	-33.07	-32.45	-32.53	-32.54		
31		1929 to 1930	-33.35	-32.82	-33.28	-33.41		
High		16	1990 to 1991	-30.54	-31.03	-31.33	-31.77	
		17	1990 to 1991	-32.58	-30.82	-31.79	-31.81	
		18	1990 to 1991	-32.42	-31.06	-31.94	-31.85	
		19	1990 to 1991	-31.94	-31.18	-32.41	-31.66	
		20	1990 to 1991	-32.51	-32.06	-32.18	-32.01	
		21	1990 to 1991	-31.05	-31.66	-31.89	-31.15	
		22	1990 to 1991	-31.91	-31.16	-31.14	-30.68	
		23	1990 to 1991	-32.29	-31.50	-32.30	-32.16	
		24	1990 to 1991	-31.73	-31.29	-31.50	-30.07	
		25	1990 to 1991	-32.12	-31.74	-32.00	-31.10	
		26	1990 to 1991	-31.67	-31.57	-31.36	-30.76	
		27	1990 to 1991	-31.82	-31.96	-32.08	-30.78	
		28	1990 to 1991	-32.12	-31.63	-32.24	-31.94	
		29	1990 to 1991	-32.01	-31.59	-31.76	-30.89	
30		1990 to 1991	-32.42	-31.75	-31.73	-30.58		
31	1990 to 1991	-32.19	-31.51	-31.33	-30.83			
Low	LTE:9 NR:1	16	1929 to 1930	-33.99	-33.59	-34.04	-33.96	-25.04
		17	1929 to 1930	-33.66	-33.39	-33.55	-33.34	
		30	1929 to 1930	-34.08	-32.98	-32.94	-33.52	
		31	1929 to 1930	-34.38	-33.51	-33.42	-34.03	
High		16	1990 to 1991	-32.92	-33.03	-33.07	-32.53	
		17	1990 to 1991	-32.41	-32.43	-33.16	-33.57	
		30	1990 to 1991	-32.62	-32.88	-33.19	-33.10	
		31	1990 to 1991	-32.60	-32.89	-32.16	-32.13	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 179 of 319	

Low	LTE:2 NR:8	16	1929 to 1930	-32.84	-32.30	-32.54	-32.34	-25.04
		17	1929 to 1930	-32.55	-31.97	-32.20	-31.60	
		30	1929 to 1930	-32.45	-31.67	-31.90	-31.73	
		31	1929 to 1930	-32.76	-31.95	-32.44	-32.54	
High		16	1990 to 1991	-30.72	-30.34	-30.80	-31.55	
		17	1990 to 1991	-30.58	-30.96	-31.10	-31.69	
		30	1990 to 1991	-31.67	-31.90	-31.11	-31.35	
		31	1990 to 1991	-31.54	-31.17	-31.00	-31.19	

Table 8-72. Band Edge Emission Summary Data (PCS_DSS_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 180 of 319

Channel	Ratio	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
Low	LTE:5 NR:5	16	1929 to 1930	-32.71	-32.61	-31.66	-32.31	-25.04
		17	1929 to 1930	-32.40	-32.11	-32.08	-32.12	
		18	1929 to 1930	-32.08	-31.43	-32.08	-32.16	
		19	1929 to 1930	-32.55	-31.99	-32.04	-31.87	
		20	1929 to 1930	-32.59	-32.74	-32.77	-33.19	
		21	1929 to 1930	-32.40	-32.17	-31.91	-32.34	
		22	1929 to 1930	-31.64	-31.87	-31.96	-31.46	
		23	1929 to 1930	-32.60	-32.11	-31.80	-32.23	
		24	1929 to 1930	-32.23	-31.20	-31.96	-31.90	
		25	1929 to 1930	-32.32	-32.29	-32.32	-32.18	
		26	1929 to 1930	-32.39	-31.31	-31.37	-31.83	
		27	1929 to 1930	-32.85	-32.19	-32.12	-32.45	
		28	1929 to 1930	-32.26	-31.38	-31.58	-32.07	
		29	1929 to 1930	-32.79	-32.13	-31.76	-31.72	
30	1929 to 1930	-32.30	-32.18	-32.08	-32.68			
High	LTE:5 NR:5	31	1929 to 1930	-32.95	-32.61	-32.65	-32.63	
		16	1990 to 1991	-31.15	-29.58	-29.77	-31.57	
		17	1990 to 1991	-30.74	-30.91	-30.88	-31.10	
		18	1990 to 1991	-31.63	-30.93	-30.24	-31.53	
		19	1990 to 1991	-30.68	-30.96	-30.50	-30.91	
		20	1990 to 1991	-31.44	-31.07	-30.97	-31.53	
		21	1990 to 1991	-29.71	-30.90	-30.57	-31.47	
		22	1990 to 1991	-30.90	-30.24	-30.28	-30.67	
		23	1990 to 1991	-30.98	-31.17	-30.79	-30.73	
		24	1990 to 1991	-30.45	-30.38	-29.70	-30.72	
		25	1990 to 1991	-30.33	-31.35	-30.31	-31.22	
		26	1990 to 1991	-30.90	-30.64	-30.35	-31.29	
		27	1990 to 1991	-30.99	-31.24	-30.48	-31.14	
		28	1990 to 1991	-31.40	-30.92	-30.46	-31.24	
29	1990 to 1991	-30.49	-31.06	-29.89	-31.01			
30	1990 to 1991	-31.06	-31.01	-30.48	-31.32			
31	1990 to 1991	-31.56	-30.89	-30.42	-31.42			
Low	LTE:9 NR:1	16	1929 to 1930	-33.70	-33.51	-33.23	-33.13	-25.04
		17	1929 to 1930	-33.64	-33.49	-32.91	-32.93	
		30	1929 to 1930	-33.43	-33.35	-33.13	-32.55	
		31	1929 to 1930	-33.73	-33.41	-33.19	-32.80	
High	LTE:9 NR:1	16	1990 to 1991	-31.70	-30.10	-31.76	-31.69	
		17	1990 to 1991	-31.58	-31.92	-31.32	-31.56	
		30	1990 to 1991	-31.52	-31.81	-31.18	-31.08	
		31	1990 to 1991	-31.18	-31.49	-31.70	-31.99	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 181 of 319	

Low	LTE:2 NR:8	16	1929 to 1930	-32.83	-32.17	-31.99	-32.51	-25.04
		17	1929 to 1930	-32.47	-32.07	-31.92	-32.35	
		30	1929 to 1930	-32.28	-31.79	-32.15	-31.87	
		31	1929 to 1930	-32.63	-32.24	-32.53	-32.49	
High		16	1990 to 1991	-30.81	-30.33	-30.02	-28.77	
		17	1990 to 1991	-29.41	-30.51	-30.02	-29.90	
		30	1990 to 1991	-29.53	-30.18	-28.10	-30.49	
		31	1990 to 1991	-30.26	-29.99	-29.42	-30.18	

Table 8-73. Band Edge Emission Summary Data (PCS_DSS_1C_20M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)			Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)			Page 182 of 319

Configuration	Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
NR_2C 15M+5M	Low	16	1929 to 1930	-28.68	-28.57	-28.28	-28.52	-25.04
		17	1929 to 1930	-28.78	-28.19	-28.44	-28.09	
		30	1929 to 1930	-28.35	-28.40	-28.74	-28.82	
		31	1929 to 1930	-28.74	-28.56	-28.84	-28.46	
	High	16	1990 to 1991	-28.75	-29.20	-29.17	-29.36	
		17	1990 to 1991	-28.61	-28.81	-29.25	-28.82	
		30	1990 to 1991	-28.76	-29.09	-29.02	-29.23	
		31	1990 to 1991	-28.38	-28.54	-29.09	-28.78	
NR_3C 10M+10M+10M	Low	16	1929 to 1930	-28.63	-29.07	-29.23	-28.67	-25.04
		17	1929 to 1930	-28.61	-28.66	-28.43	-28.16	
		30	1929 to 1930	-29.47	-30.11	-29.78	-29.84	
		31	1929 to 1930	-30.64	-30.38	-30.57	-30.20	
	High	16	1990 to 1991	-27.96	-28.37	-28.16	-27.91	
		17	1990 to 1991	-28.23	-28.04	-28.09	-27.79	
		30	1990 to 1991	-29.30	-29.64	-29.47	-29.44	
		31	1990 to 1991	-29.22	-29.01	-29.57	-29.18	
NR_1C_15M + LTE_1C_5M	Low	16	1929 to 1930	-28.94	-28.67	-28.98	-29.17	-25.04
		17	1929 to 1930	-29.03	-28.66	-28.78	-29.00	
		30	1929 to 1930	-28.35	-28.69	-28.78	-28.93	
		31	1929 to 1930	-28.91	-28.79	-28.98	-29.13	
	High	16	1990 to 1991	-29.01	-29.55	-29.68	-29.17	
		17	1990 to 1991	-29.03	-28.96	-29.08	-28.82	
		30	1990 to 1991	-28.56	-28.53	-28.95	-29.23	
		31	1990 to 1991	-28.19	-28.84	-28.08	-29.00	
NR_2C_10M+10M + LTE_1C_10M	Low	16	1929 to 1930	-30.68	-30.54	-30.94	-30.74	-25.04
		17	1929 to 1930	-30.36	-30.40	-30.04	-30.58	
		30	1929 to 1930	-30.48	-30.70	-30.29	-30.28	
		31	1929 to 1930	-30.24	-30.51	-30.52	-30.50	
	High	16	1990 to 1991	-29.99	-30.15	-30.18	-30.88	
		17	1990 to 1991	-30.04	-30.14	-30.24	-30.22	
		30	1990 to 1991	-29.70	-30.15	-30.20	-30.18	
		31	1990 to 1991	-29.74	-29.91	-30.21	-30.46	
DSS_1C_15M + LTE_1C_5M	Low	16	1929 to 1930	-31.81	-31.04	-31.74	-31.45	-25.04
		17	1929 to 1930	-30.60	-30.82	-31.62	-31.35	
		30	1929 to 1930	-30.80	-30.93	-31.85	-30.81	
		31	1929 to 1930	-31.48	-31.37	-31.98	-31.55	
	High	16	1990 to 1991	-29.32	-29.30	-28.94	-28.15	
		17	1990 to 1991	-28.87	-29.49	-28.94	-28.57	
		30	1990 to 1991	-29.25	-29.81	-29.33	-28.22	
		31	1990 to 1991	-28.90	-28.76	-28.89	-27.78	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 183 of 319	

DSS_1C_15M + LTE_1C_15M	Low	16	1929 to 1930	-31.95	-32.20	-31.48	-32.31	-25.04
		17	1929 to 1930	-31.66	-31.62	-31.53	-32.22	
		30	1929 to 1930	-31.94	-30.90	-31.72	-31.64	
		31	1929 to 1930	-32.22	-32.05	-31.90	-32.63	
	High	16	1990 to 1991	-29.45	-30.35	-29.86	-30.27	
		17	1990 to 1991	-29.89	-30.23	-30.38	-30.06	
		30	1990 to 1991	-29.27	-30.60	-29.88	-30.40	
		31	1990 to 1991	-29.85	-30.32	-30.79	-30.62	
DSS_1C_15M + NR_1C_5M	Low	16	1929 to 1930	-30.61	-30.70	-31.53	-31.46	-25.04
		17	1929 to 1930	-31.04	-30.90	-30.98	-31.25	
		30	1929 to 1930	-31.36	-30.83	-31.24	-31.06	
		31	1929 to 1930	-31.66	-31.21	-31.63	-31.32	
	High	16	1990 to 1991	-29.80	-29.65	-29.50	-28.99	
		17	1990 to 1991	-28.44	-29.26	-28.99	-28.85	
		30	1990 to 1991	-28.53	-29.24	-29.11	-29.64	
		31	1990 to 1991	-28.58	-28.71	-28.83	-28.44	
DSS_1C_15M + NR_1C_15M	Low	16	1929 to 1930	-31.57	-31.98	-31.91	-31.60	-25.04
		17	1929 to 1930	-31.70	-30.98	-31.39	-31.75	
		30	1929 to 1930	-30.93	-31.26	-31.46	-31.68	
		31	1929 to 1930	-31.89	-31.27	-32.05	-31.97	
	High	16	1990 to 1991	-29.00	-28.80	-29.26	-28.62	
		17	1990 to 1991	-28.56	-28.77	-28.55	-28.32	
		30	1990 to 1991	-29.11	-28.75	-28.88	-28.33	
		31	1990 to 1991	-28.74	-28.37	-28.73	-28.63	

Table 8-74. Band Edge Emission Summary Data (PCS_Multi-carrier)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 184 of 319	

Configuration	Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
				QPSK	
NR_2C 15M+5M	Low	16	1929 to 1930	-28.47	-25.04
		17	1929 to 1930	-28.37	
		30	1929 to 1930	-29.74	
		31	1929 to 1930	-29.91	
	High	16	1990 to 1991	-34.17	
		17	1990 to 1991	-33.97	
		30	1990 to 1991	-34.96	
		31	1990 to 1991	-34.77	
NR_3C 10M+10M+10M	Low	16	1929 to 1930	-32.91	-25.04
		17	1929 to 1930	-32.59	
		30	1929 to 1930	-34.24	
		31	1929 to 1930	-34.43	
	High	16	1990 to 1991	-32.63	
		17	1990 to 1991	-32.40	
		30	1990 to 1991	-33.74	
		31	1990 to 1991	-33.51	
NR_1C_15M + LTE_1C_5M	Low	16	1929 to 1930	-29.75	-25.04
		17	1929 to 1930	-29.45	
		30	1929 to 1930	-29.55	
		31	1929 to 1930	-29.53	
	High	16	1990 to 1991	-34.97	
		17	1990 to 1991	-34.64	
		30	1990 to 1991	-34.72	
		31	1990 to 1991	-34.49	
NR_2C_10M+10M + LTE_1C_10M	Low	16	1929 to 1930	-34.09	-25.04
		17	1929 to 1930	-33.98	
		30	1929 to 1930	-33.89	
		31	1929 to 1930	-34.10	
	High	16	1990 to 1991	-34.25	
		17	1990 to 1991	-33.93	
		30	1990 to 1991	-33.92	
		31	1990 to 1991	-34.00	
DSS_1C_15M + LTE_1C_5M	Low	16	1929 to 1930	-32.78	-25.04
		17	1929 to 1930	-33.28	
		30	1929 to 1930	-32.28	
		31	1929 to 1930	-32.80	
	High	16	1990 to 1991	-35.02	
		17	1990 to 1991	-35.10	
		30	1990 to 1991	-34.88	
		31	1990 to 1991	-34.50	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 185 of 319	



DSS_1C_15M + LTE_1C_15M	Low	16	1929 to 1930	-34.03	-25.04
		17	1929 to 1930	-34.11	
		30	1929 to 1930	-34.33	
		31	1929 to 1930	-34.31	
	High	16	1990 to 1991	-34.41	
		17	1990 to 1991	-34.35	
		30	1990 to 1991	-33.99	
		31	1990 to 1991	-34.13	
DSS_1C_15M + NR_1C_5M	Low	16	1929 to 1930	-33.02	-25.04
		17	1929 to 1930	-32.85	
		30	1929 to 1930	-32.88	
		31	1929 to 1930	-32.79	
	High	16	1990 to 1991	-34.96	
		17	1990 to 1991	-34.96	
		30	1990 to 1991	-34.78	
		31	1990 to 1991	-34.76	
DSS_1C_15M + NR_1C_15M	Low	16	1929 to 1930	-34.12	-25.04
		17	1929 to 1930	-34.33	
		30	1929 to 1930	-34.18	
		31	1929 to 1930	-34.36	
	High	16	1990 to 1991	-31.66	
		17	1990 to 1991	-31.70	
		30	1990 to 1991	-31.37	
		31	1990 to 1991	-31.58	

Table 8-75. Band Edge Emission Summary Data (PCS_Multi-carrier_Non-Contiguous)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 186 of 319	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	2109 to 2110	-29.76	-29.91	-29.97	-30.13	-25.04
	1	2109 to 2110	-30.02	-30.34	-30.10	-29.30	
	2	2109 to 2110	-29.67	-29.67	-29.49	-29.66	
	3	2109 to 2110	-30.02	-30.39	-30.09	-29.82	
	4	2109 to 2110	-29.68	-29.47	-29.55	-29.85	
	5	2109 to 2110	-30.34	-30.73	-29.28	-29.88	
	6	2109 to 2110	-30.29	-30.38	-30.07	-29.87	
	7	2109 to 2110	-29.99	-29.91	-30.25	-29.72	
	8	2109 to 2110	-29.51	-29.87	-30.28	-30.15	
	9	2109 to 2110	-30.49	-29.89	-29.96	-29.73	
	10	2109 to 2110	-30.02	-29.49	-30.36	-30.54	
	11	2109 to 2110	-29.57	-29.89	-28.87	-30.00	
	12	2109 to 2110	-29.43	-29.57	-29.53	-30.01	
	13	2109 to 2110	-30.53	-31.27	-30.05	-30.04	
	14	2109 to 2110	-30.38	-29.93	-30.06	-30.20	
High	0	2180 to 2181	-28.37	-27.35	-27.59	-27.07	
	1	2180 to 2181	-27.24	-27.91	-27.81	-27.90	
	2	2180 to 2181	-27.59	-27.44	-27.09	-27.41	
	3	2180 to 2181	-27.42	-27.43	-27.85	-27.98	
	4	2180 to 2181	-27.62	-27.43	-27.17	-27.12	
	5	2180 to 2181	-27.49	-28.02	-27.24	-27.16	
	6	2180 to 2181	-27.52	-27.90	-27.57	-27.16	
	7	2180 to 2181	-27.95	-27.71	-27.43	-27.28	
	8	2180 to 2181	-27.90	-28.14	-27.60	-27.18	
	9	2180 to 2181	-27.72	-27.60	-27.85	-27.90	
	10	2180 to 2181	-28.87	-27.41	-27.13	-27.33	
	11	2180 to 2181	-27.27	-27.14	-28.03	-27.82	
	12	2180 to 2181	-27.47	-28.10	-27.29	-27.81	
	13	2180 to 2181	-27.53	-28.10	-27.48	-27.45	
	14	2180 to 2181	-28.74	-28.05	-28.07	-27.68	
15	2180 to 2181	-28.17	-28.02	-27.34	-27.64		

Table 8-76. Band Edge Emission Summary Data (AWS_NR_1C_5M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 187 of 319	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	2109 to 2110	-32.55	-32.75	-32.03	-32.45	-25.04
	1	2109 to 2110	-33.00	-32.91	-32.89	-32.72	
	2	2109 to 2110	-32.21	-32.28	-32.12	-32.37	
	3	2109 to 2110	-33.15	-32.95	-33.35	-32.83	
	4	2109 to 2110	-32.78	-32.65	-32.45	-32.50	
	5	2109 to 2110	-32.97	-32.89	-32.87	-32.47	
	6	2109 to 2110	-32.45	-32.63	-32.34	-32.18	
	7	2109 to 2110	-33.13	-33.04	-33.24	-32.91	
	8	2109 to 2110	-32.47	-32.53	-32.35	-32.37	
	9	2109 to 2110	-33.04	-32.54	-32.85	-32.69	
	10	2109 to 2110	-32.57	-32.83	-32.77	-32.43	
	11	2109 to 2110	-32.83	-33.04	-32.86	-33.13	
	12	2109 to 2110	-32.67	-32.57	-32.62	-32.83	
	13	2109 to 2110	-33.15	-33.29	-33.38	-33.01	
	14	2109 to 2110	-32.86	-32.64	-32.65	-32.85	
High	0	2180 to 2181	-31.46	-31.47	-31.35	-31.36	
	1	2180 to 2181	-31.98	-31.87	-31.88	-32.05	
	2	2180 to 2181	-31.60	-31.17	-31.17	-31.66	
	3	2180 to 2181	-32.03	-31.78	-31.76	-32.05	
	4	2180 to 2181	-31.77	-31.39	-31.55	-31.59	
	5	2180 to 2181	-31.99	-31.60	-31.66	-31.81	
	6	2180 to 2181	-31.62	-31.28	-31.63	-31.63	
	7	2180 to 2181	-31.99	-31.69	-31.70	-31.74	
	8	2180 to 2181	-31.09	-30.99	-31.03	-31.66	
	9	2180 to 2181	-31.46	-31.20	-31.28	-31.83	
	10	2180 to 2181	-31.65	-31.19	-31.68	-31.92	
	11	2180 to 2181	-31.91	-31.80	-31.65	-31.99	
	12	2180 to 2181	-31.79	-31.50	-31.51	-31.76	
	13	2180 to 2181	-32.28	-32.01	-31.85	-32.11	
	14	2180 to 2181	-31.33	-31.19	-31.59	-31.71	
15	2180 to 2181	-31.63	-31.08	-31.65	-31.66		

Table 8-77. Band Edge Emission Summary Data (AWS_NR_1C_10M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 188 of 319	



Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	2109 to 2110	-29.51	-29.34	-29.40	-29.18	-25.04
	1	2109 to 2110	-29.79	-29.84	-29.62	-29.77	
	2	2109 to 2110	-29.49	-29.93	-29.33	-29.66	
	3	2109 to 2110	-29.76	-29.88	-29.72	-29.73	
	4	2109 to 2110	-29.75	-29.71	-29.65	-29.78	
	5	2109 to 2110	-29.66	-29.66	-29.68	-29.80	
	6	2109 to 2110	-29.52	-29.77	-29.54	-29.41	
	7	2109 to 2110	-29.79	-29.94	-29.84	-29.69	
	8	2109 to 2110	-29.38	-29.68	-29.53	-29.56	
	9	2109 to 2110	-29.49	-29.78	-29.35	-29.39	
	10	2109 to 2110	-29.65	-29.70	-29.58	-29.72	
	11	2109 to 2110	-29.68	-30.07	-29.56	-29.91	
	12	2109 to 2110	-29.79	-29.82	-29.77	-29.53	
	13	2109 to 2110	-29.91	-30.05	-29.70	-30.05	
	14	2109 to 2110	-29.81	-29.83	-29.67	-29.64	
High	0	2180 to 2181	-28.65	-29.27	-28.44	-28.97	
	1	2180 to 2181	-28.99	-29.54	-28.93	-29.10	
	2	2180 to 2181	-28.73	-29.11	-28.41	-28.76	
	3	2180 to 2181	-29.22	-29.37	-28.95	-28.94	
	4	2180 to 2181	-28.94	-29.17	-28.68	-29.12	
	5	2180 to 2181	-28.91	-29.26	-28.99	-29.08	
	6	2180 to 2181	-28.79	-29.08	-28.47	-28.83	
	7	2180 to 2181	-28.92	-29.29	-28.65	-28.91	
	8	2180 to 2181	-28.73	-28.90	-28.66	-28.76	
	9	2180 to 2181	-28.97	-29.22	-28.57	-28.85	
	10	2180 to 2181	-29.03	-29.26	-28.68	-29.17	
	11	2180 to 2181	-28.91	-29.46	-28.68	-29.00	
	12	2180 to 2181	-28.94	-29.02	-28.67	-29.01	
	13	2180 to 2181	-29.18	-29.51	-29.03	-29.21	
	14	2180 to 2181	-28.90	-29.21	-28.71	-28.96	
15	2180 to 2181	-28.60	-29.19	-28.51	-28.72		

Table 8-78. Band Edge Emission Summary Data (AWS_NR_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 189 of 319	

Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
			QPSK	16QAM	64QAM	256QAM	
Low	0	2109 to 2110	-29.33	-29.01	-29.08	-28.87	-25.04
	1	2109 to 2110	-29.30	-29.52	-29.63	-29.04	
	2	2109 to 2110	-29.06	-29.40	-29.47	-28.83	
	3	2109 to 2110	-29.55	-29.59	-29.84	-29.07	
	4	2109 to 2110	-29.58	-29.37	-29.44	-28.84	
	5	2109 to 2110	-29.25	-29.41	-29.62	-29.08	
	6	2109 to 2110	-28.94	-29.20	-29.34	-28.96	
	7	2109 to 2110	-29.18	-29.49	-29.71	-29.04	
	8	2109 to 2110	-29.25	-29.62	-29.29	-28.87	
	9	2109 to 2110	-29.41	-29.61	-29.55	-28.96	
	10	2109 to 2110	-29.29	-29.53	-29.69	-28.80	
	11	2109 to 2110	-29.49	-29.53	-29.78	-29.03	
	12	2109 to 2110	-29.53	-29.52	-30.11	-29.00	
	13	2109 to 2110	-29.61	-30.13	-30.06	-29.46	
	14	2109 to 2110	-29.40	-29.66	-29.44	-28.97	
High	0	2180 to 2181	-28.12	-28.56	-28.26	-27.71	
	1	2180 to 2181	-28.38	-28.90	-28.55	-28.61	
	2	2180 to 2181	-28.17	-28.51	-28.28	-28.13	
	3	2180 to 2181	-28.67	-29.45	-28.85	-28.32	
	4	2180 to 2181	-28.13	-28.98	-28.34	-28.31	
	5	2180 to 2181	-28.23	-28.74	-28.62	-28.01	
	6	2180 to 2181	-27.96	-28.51	-28.21	-28.03	
	7	2180 to 2181	-28.06	-28.80	-28.25	-27.94	
	8	2180 to 2181	-27.85	-28.38	-28.22	-27.85	
	9	2180 to 2181	-28.01	-28.76	-28.43	-28.28	
	10	2180 to 2181	-28.46	-28.71	-28.69	-28.25	
	11	2180 to 2181	-28.11	-28.63	-28.55	-28.22	
	12	2180 to 2181	-28.23	-28.89	-28.46	-28.17	
	13	2180 to 2181	-28.60	-29.17	-28.74	-28.59	
	14	2180 to 2181	-28.11	-28.56	-28.28	-27.88	
15	2180 to 2181	-27.95	-28.60	-28.32	-27.95		

Table 8-79. Band Edge Emission Summary Data (AWS_NR_1C_20M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 190 of 319	

Channel	Ratio	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
Low	LTE:5 NR:5	0	2109 to 2110	-33.52	-33.21	-33.72	-33.44	-25.04
		1	2109 to 2110	-33.57	-33.47	-33.76	-33.67	
		2	2109 to 2110	-34.06	-33.84	-34.02	-33.91	
		3	2109 to 2110	-33.88	-33.20	-33.65	-33.49	
		4	2109 to 2110	-33.95	-33.37	-33.69	-33.64	
		5	2109 to 2110	-33.40	-33.18	-33.66	-33.36	
		6	2109 to 2110	-33.83	-33.66	-33.74	-34.00	
		7	2109 to 2110	-33.78	-33.21	-33.64	-33.28	
		8	2109 to 2110	-33.59	-33.39	-33.76	-33.69	
		9	2109 to 2110	-33.24	-33.43	-33.50	-33.34	
		10	2109 to 2110	-33.81	-33.69	-34.09	-33.87	
		11	2109 to 2110	-33.33	-33.66	-33.74	-33.39	
		12	2109 to 2110	-33.74	-33.98	-34.00	-33.81	
		13	2109 to 2110	-33.57	-33.32	-33.48	-33.12	
		14	2109 to 2110	-34.23	-34.34	-34.20	-34.27	
High	LTE:5 NR:5	0	2180 to 2181	-32.64	-32.71	-33.05	-32.78	-25.04
		1	2180 to 2181	-32.47	-32.48	-32.85	-32.97	
		2	2180 to 2181	-32.77	-32.67	-33.35	-33.33	
		3	2180 to 2181	-32.47	-32.79	-32.59	-32.87	
		4	2180 to 2181	-33.06	-32.99	-33.21	-33.40	
		5	2180 to 2181	-32.67	-32.67	-32.62	-32.86	
		6	2180 to 2181	-32.54	-33.09	-33.09	-33.16	
		7	2180 to 2181	-32.32	-32.83	-32.85	-33.19	
		8	2180 to 2181	-32.84	-32.64	-33.20	-33.40	
		9	2180 to 2181	-32.29	-32.65	-32.93	-32.87	
		10	2180 to 2181	-33.28	-33.10	-33.21	-33.66	
		11	2180 to 2181	-32.54	-32.91	-32.90	-33.22	
		12	2180 to 2181	-32.93	-32.94	-33.48	-33.19	
		13	2180 to 2181	-32.78	-33.07	-32.98	-33.16	
		14	2180 to 2181	-33.11	-33.41	-33.49	-33.72	
15	2180 to 2181	-32.79	-32.68	-32.70	-33.01			
Low	LTE:9 NR:1	0	2109 to 2110	-34.15	-34.92	-34.30	-34.31	-25.04
		1	2109 to 2110	-33.66	-34.92	-34.48	-34.44	
		14	2109 to 2110	-34.29	-35.36	-35.07	-35.13	
		15	2109 to 2110	-34.06	-34.91	-34.67	-34.75	
High	LTE:9 NR:1	0	2180 to 2181	-31.83	-33.43	-33.69	-33.04	-25.04
		1	2180 to 2181	-32.69	-33.50	-33.74	-33.49	
		14	2180 to 2181	-33.32	-34.17	-33.96	-34.08	
		15	2180 to 2181	-32.62	-33.80	-34.11	-33.42	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 191 of 319	

Low	LTE:2 NR:8	0	2109 to 2110	-33.99	-34.60	-34.24	-34.22	-25.04
		1	2109 to 2110	-33.32	-34.79	-34.43	-34.50	
		14	2109 to 2110	-34.49	-35.34	-35.10	-35.39	
		15	2109 to 2110	-34.04	-34.91	-34.41	-34.51	
High		0	2180 to 2181	-31.88	-33.42	-33.29	-33.33	
		1	2180 to 2181	-32.72	-33.12	-33.84	-33.51	
		14	2180 to 2181	-33.07	-33.94	-34.18	-33.73	
		15	2180 to 2181	-32.48	-33.84	-33.81	-33.78	

Table 8-80. Band Edge Emission Summary Data (AWS_DSS_1C_10M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 192 of 319

Channel	Ratio	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
Low	LTE:5 NR:5	0	2109 to 2110	-33.60	-33.90	-33.61	-33.47	-25.04
		1	2109 to 2110	-33.69	-33.89	-33.79	-33.42	
		2	2109 to 2110	-33.94	-34.01	-33.72	-33.72	
		3	2109 to 2110	-33.66	-33.63	-33.84	-33.67	
		4	2109 to 2110	-34.03	-34.18	-33.79	-33.99	
		5	2109 to 2110	-33.94	-34.15	-33.70	-33.60	
		6	2109 to 2110	-34.11	-33.82	-33.91	-33.85	
		7	2109 to 2110	-33.86	-34.17	-33.94	-33.83	
		8	2109 to 2110	-34.09	-34.09	-33.36	-34.08	
		9	2109 to 2110	-33.54	-33.79	-33.58	-33.83	
		10	2109 to 2110	-33.64	-34.14	-34.16	-34.23	
		11	2109 to 2110	-34.02	-33.76	-34.00	-33.70	
		12	2109 to 2110	-33.97	-34.12	-33.65	-33.87	
		13	2109 to 2110	-33.93	-33.86	-33.67	-33.81	
		14	2109 to 2110	-34.23	-34.37	-34.44	-34.36	
High	LTE:5 NR:5	0	2180 to 2181	-32.24	-32.09	-33.15	-32.90	-25.04
		1	2180 to 2181	-32.80	-32.54	-33.47	-32.97	
		2	2180 to 2181	-32.86	-32.74	-33.47	-33.04	
		3	2180 to 2181	-31.99	-32.64	-33.00	-33.09	
		4	2180 to 2181	-32.32	-32.23	-33.78	-33.45	
		5	2180 to 2181	-32.29	-32.34	-33.04	-32.52	
		6	2180 to 2181	-32.33	-31.93	-33.27	-33.16	
		7	2180 to 2181	-32.57	-32.81	-33.31	-32.70	
		8	2180 to 2181	-32.38	-32.50	-33.06	-33.04	
		9	2180 to 2181	-32.17	-32.32	-33.14	-32.60	
		10	2180 to 2181	-32.61	-32.47	-33.24	-33.48	
		11	2180 to 2181	-32.75	-32.78	-33.04	-32.84	
		12	2180 to 2181	-32.60	-32.57	-33.15	-32.87	
		13	2180 to 2181	-32.25	-32.23	-33.38	-33.37	
		14	2180 to 2181	-32.52	-32.56	-33.57	-33.77	
15	2180 to 2181	-32.55	-32.69	-32.77	-32.89			
Low	LTE:9 NR:1	0	2109 to 2110	-34.05	-34.76	-34.26	-34.33	-25.04
		1	2109 to 2110	-34.35	-34.87	-34.47	-34.52	
		2	2109 to 2110	-35.00	-35.40	-35.02	-35.13	
3	2109 to 2110	-34.47	-34.79	-34.44	-34.36			
High	LTE:9 NR:1	0	2180 to 2181	-32.87	-33.62	-33.26	-32.91	
		1	2180 to 2181	-33.19	-33.74	-34.05	-33.98	
		2	2180 to 2181	-33.90	-34.28	-34.36	-34.38	
		3	2180 to 2181	-33.21	-33.82	-34.03	-33.60	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 193 of 319	

Low	0	2109 to 2110	-33.69	-34.48	-33.81	-34.27	-25.04
	1	2109 to 2110	-33.97	-34.90	-34.66	-34.64	
	14	2109 to 2110	-34.77	-35.15	-35.01	-35.22	
	15	2109 to 2110	-34.09	-34.75	-34.48	-34.58	
High	0	2180 to 2181	-32.99	-33.48	-33.31	-33.32	
	1	2180 to 2181	-33.76	-34.01	-33.61	-33.80	
	14	2180 to 2181	-33.81	-33.76	-33.89	-33.83	
	15	2180 to 2181	-33.27	-33.87	-33.85	-33.54	

Table 8-81. Band Edge Emission Summary Data (AWS_DSS_1C_15M)



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 194 of 319	

Channel	Ratio	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)	
				QPSK	16QAM	64QAM	256QAM		
Low	LTE:5 NR:5	0	2109 to 2110	-34.32	-33.76	-33.46	-33.95	-25.04	
		1	2109 to 2110	-34.23	-33.87	-33.80	-33.69		
		2	2109 to 2110	-34.41	-34.14	-33.70	-34.32		
		3	2109 to 2110	-34.14	-33.91	-33.83	-34.14		
		4	2109 to 2110	-34.42	-34.18	-34.16	-34.18		
		5	2109 to 2110	-34.19	-34.01	-33.93	-33.90		
		6	2109 to 2110	-34.40	-33.98	-33.96	-34.06		
		7	2109 to 2110	-34.11	-34.19	-33.76	-34.10		
		8	2109 to 2110	-34.23	-33.99	-34.07	-33.90		
		9	2109 to 2110	-33.75	-33.74	-33.87	-33.93		
		10	2109 to 2110	-34.40	-34.03	-33.97	-34.17		
		11	2109 to 2110	-34.03	-33.80	-33.96	-33.99		
		12	2109 to 2110	-34.56	-34.10	-33.78	-33.88		
		13	2109 to 2110	-34.29	-34.30	-33.88	-34.26		
		14	2109 to 2110	-34.60	-34.42	-34.14	-34.41		
High	LTE:5 NR:5	0	2180 to 2181	-32.58	-32.54	-32.57	-32.72	-25.04	
		1	2180 to 2181	-33.01	-32.58	-32.78	-32.93		
		2	2180 to 2181	-32.55	-33.02	-33.32	-32.77		
		3	2180 to 2181	-32.57	-32.95	-32.91	-32.44		
		4	2180 to 2181	-32.98	-32.66	-32.90	-32.99		
		5	2180 to 2181	-32.69	-32.48	-32.72	-32.37		
		6	2180 to 2181	-32.14	-32.55	-32.75	-32.59		
		7	2180 to 2181	-32.85	-32.77	-32.73	-32.77		
		8	2180 to 2181	-32.94	-32.44	-33.04	-33.20		
		9	2180 to 2181	-32.34	-32.55	-32.84	-32.80		
		10	2180 to 2181	-32.62	-32.82	-32.49	-33.23		
		11	2180 to 2181	-32.47	-32.58	-32.81	-32.74		
		12	2180 to 2181	-32.92	-32.84	-32.64	-32.83		
		13	2180 to 2181	-33.06	-33.45	-32.59	-33.29		
		14	2180 to 2181	-33.30	-33.09	-32.71	-33.14		
Low	LTE:9 NR:1	0	2109 to 2110	-34.59	-34.47	-34.44	-34.61	-25.04	
		1	2109 to 2110	-34.46	-34.53	-34.60	-34.84		
		14	2109 to 2110	-35.33	-35.40	-34.74	-35.50		
		15	2109 to 2110	-34.78	-34.83	-34.96	-34.93		
High	LTE:9 NR:1	0	2180 to 2181	-33.47	-33.32	-33.22	-32.30		-25.04
		1	2180 to 2181	-33.55	-33.75	-33.20	-32.86		
		14	2180 to 2181	-33.85	-33.95	-33.75	-33.01		
		15	2180 to 2181	-33.35	-33.53	-33.38	-32.56		



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 195 of 319	

Low	0	LTE:2 NR:8	2109 to 2110	-34.65	-34.16	-34.53	-34.77	-25.04
	1		2109 to 2110	-34.70	-34.53	-34.64	-34.71	
	14		2109 to 2110	-35.11	-34.99	-35.21	-35.43	
	15		2109 to 2110	-35.20	-34.57	-34.93	-35.13	
High	0		2180 to 2181	-33.36	-33.42	-32.53	-33.32	
	1		2180 to 2181	-33.25	-33.60	-32.04	-33.20	
	14		2180 to 2181	-34.15	-34.20	-32.72	-33.81	
	15		2180 to 2181	-33.41	-33.59	-31.42	-33.57	



Table 8-82. Band Edge Emission Summary Data (AWS_DSS_1C_20M)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 196 of 319

Configuration	Channel	Port	Measured Range (MHz)	Max. Value (dBm)				Limit (dBm)
				QPSK	16QAM	64QAM	256QAM	
LTE_2C 15M+5M	Low	0	2109 to 2110	-32.89	-33.85	-33.50	-33.75	-25.04
		1	2109 to 2110	-33.56	-34.15	-33.45	-33.90	
		14	2109 to 2110	-33.66	-34.86	-34.19	-34.20	
		15	2109 to 2110	-33.65	-34.25	-33.64	-34.10	
	High	0	2180 to 2181	-29.02	-30.27	-29.30	-29.77	
		1	2180 to 2181	-29.18	-30.36	-29.69	-29.45	
		14	2180 to 2181	-29.51	-31.29	-30.01	-30.10	
		15	2180 to 2181	-29.01	-30.67	-29.61	-29.65	
NR_2C 15M+5M	Low	0	2109 to 2110	-28.69	-29.39	-28.76	-29.05	-25.04
		1	2109 to 2110	-29.23	-29.36	-29.19	-29.37	
		14	2109 to 2110	-29.08	-29.32	-29.16	-29.42	
		15	2109 to 2110	-29.15	-29.66	-29.35	-29.59	
	High	0	2180 to 2181	-28.67	-28.96	-29.05	-29.12	
		1	2180 to 2181	-29.42	-29.54	-29.20	-29.66	
		14	2180 to 2181	-29.29	-29.23	-29.06	-29.34	
		15	2180 to 2181	-29.28	-29.36	-29.22	-29.25	
NR_3C 20M+15M+15M	Low	0	2109 to 2110	-31.04	-30.97	-30.68	-30.86	-25.04
		1	2109 to 2110	-31.09	-31.43	-31.04	-31.11	
		14	2109 to 2110	-31.14	-31.78	-31.63	-31.78	
		15	2109 to 2110	-31.19	-31.01	-31.54	-31.18	
	High	0	2180 to 2181	-29.78	-29.65	-29.49	-29.90	
		1	2180 to 2181	-30.08	-30.02	-30.37	-30.35	
		14	2180 to 2181	-30.78	-30.81	-30.56	-31.01	
		15	2180 to 2181	-29.88	-29.87	-29.68	-30.20	
NR_1C_15M + LTE_1C_5M	Low	0	2109 to 2110	-29.52	-29.60	-29.35	-29.22	-25.04
		1	2109 to 2110	-29.62	-29.59	-29.35	-29.38	
		14	2109 to 2110	-29.87	-29.96	-29.79	-29.88	
		15	2109 to 2110	-29.85	-29.66	-29.22	-29.74	
	High	0	2180 to 2181	-29.25	-29.47	-29.23	-29.88	
		1	2180 to 2181	-29.16	-30.15	-29.24	-29.53	
		14	2180 to 2181	-29.24	-30.47	-29.73	-30.37	
		15	2180 to 2181	-29.63	-30.24	-29.76	-29.94	
NR_2C_15M+10M + LTE_2C_15M+10M	Low	0	2109 to 2110	-30.80	-30.73	-30.44	-30.43	-25.04
		1	2109 to 2110	-30.89	-30.52	-30.45	-30.66	
		14	2109 to 2110	-31.48	-31.35	-31.51	-31.53	
		15	2109 to 2110	-30.85	-30.87	-30.98	-30.76	
	High	0	2180 to 2181	-30.57	-31.02	-30.58	-31.08	
		1	2180 to 2181	-30.78	-31.65	-31.50	-31.28	
		14	2180 to 2181	-31.71	-31.90	-32.01	-32.19	
		15	2180 to 2181	-30.39	-31.08	-31.04	-31.09	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 197 of 319	

DSS_1C_15M + LTE_1C_5M	Low	0	2109 to 2110	-31.43	-33.00	-33.06	-32.54	-25.04
		1	2109 to 2110	-32.36	-33.09	-32.93	-32.86	
		14	2109 to 2110	-32.46	-33.63	-33.41	-33.35	
		15	2109 to 2110	-32.64	-32.90	-33.23	-32.93	
	High	0	2180 to 2181	-29.51	-30.24	-29.80	-30.03	
		1	2180 to 2181	-29.36	-30.04	-29.75	-29.64	
		14	2180 to 2181	-30.52	-30.63	-30.61	-29.82	
		15	2180 to 2181	-29.76	-30.33	-29.48	-29.26	
DSS_1C_20M + LTE_2C_15M+15M	Low	0	2109 to 2110	-32.89	-31.28	-32.77	-32.97	-25.04
		1	2109 to 2110	-33.45	-32.39	-33.19	-33.32	
		14	2109 to 2110	-34.27	-32.49	-33.90	-34.14	
		15	2109 to 2110	-33.21	-32.44	-33.27	-33.50	
	High	0	2180 to 2181	-30.70	-31.45	-31.38	-31.38	
		1	2180 to 2181	-31.38	-32.02	-31.90	-32.04	
		14	2180 to 2181	-31.91	-32.64	-32.65	-32.84	
		15	2180 to 2181	-31.07	-31.74	-31.80	-31.53	
DSS_1C_15M + NR_1C_5M	Low	0	2109 to 2110	-31.89	-32.84	-32.84	-32.70	-25.04
		1	2109 to 2110	-31.55	-33.03	-33.09	-32.98	
		14	2109 to 2110	-32.38	-33.49	-33.71	-33.45	
		15	2109 to 2110	-32.85	-33.35	-33.15	-33.07	
	High	0	2180 to 2181	-28.86	-29.66	-29.75	-29.64	
		1	2180 to 2181	-28.23	-29.48	-29.77	-29.64	
		14	2180 to 2181	-29.88	-30.39	-30.36	-30.74	
		15	2180 to 2181	-29.14	-29.80	-29.78	-29.83	
DSS_1C_20M + NR_2C_15M+15M	Low	0	2109 to 2110	-32.30	-33.00	-32.90	-33.18	-25.04
		1	2109 to 2110	-33.29	-33.36	-33.24	-33.63	
		14	2109 to 2110	-34.41	-34.00	-34.14	-33.67	
		15	2109 to 2110	-33.17	-33.14	-33.26	-33.18	
	High	0	2180 to 2181	-29.63	-29.59	-29.51	-30.08	
		1	2180 to 2181	-30.31	-30.13	-29.86	-30.23	
		14	2180 to 2181	-30.60	-30.70	-30.64	-31.05	
		15	2180 to 2181	-29.79	-29.89	-29.62	-29.98	
DSS_1C_10M + LTE_1C_5M + NR_1C_5M	Low	0	2109 to 2110	-31.76	-31.65	-31.55	-31.35	-25.04
		1	2109 to 2110	-31.00	-31.08	-31.35	-31.27	
		14	2109 to 2110	-32.12	-32.05	-32.35	-32.47	
		15	2109 to 2110	-31.48	-31.58	-31.58	-31.49	
	High	0	2180 to 2181	-29.44	-29.95	-29.45	-29.71	
		1	2180 to 2181	-29.36	-29.98	-29.76	-29.34	
		14	2180 to 2181	-29.90	-30.82	-30.14	-30.18	
		15	2180 to 2181	-29.54	-29.82	-29.57	-29.45	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 198 of 319	

DSS_1C_20M + LTE_1C_15M + NR_1C_15M	Low	0	2109 to 2110	-32.64	-32.87	-32.94	-32.74	-25.04
		1	2109 to 2110	-33.26	-33.33	-33.48	-33.36	
		14	2109 to 2110	-33.54	-34.20	-34.20	-34.33	
	15	2109 to 2110	-33.28	-33.27	-33.43	-33.45		
	High	0	2180 to 2181	-31.08	-31.41	-31.71	-31.27	
		1	2180 to 2181	-30.50	-32.14	-31.93	-31.48	
		14	2180 to 2181	-31.85	-32.78	-32.59	-32.62	
		15	2180 to 2181	-31.28	-31.59	-31.26	-31.38	



Table 8-83. Band Edge Emission Summary Data (AWS_Multi-carrier)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 199 of 319	

Configuration	Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
				QPSK	
LTE_2C 15M+5M	Low	0	2109 to 2110	-32.30	-25.04
		1	2109 to 2110	-32.33	
		14	2109 to 2110	-34.17	
		15	2109 to 2110	-33.61	
	High	0	2180 to 2181	-34.32	
		1	2180 to 2181	-34.40	
		14	2180 to 2181	-35.37	
		15	2180 to 2181	-34.48	
NR_2C 15M+5M	Low	0	2109 to 2110	-28.64	-25.04
		1	2109 to 2110	-29.13	
		14	2109 to 2110	-29.61	
		15	2109 to 2110	-29.32	
	High	0	2180 to 2181	-33.18	
		1	2180 to 2181	-33.68	
		14	2180 to 2181	-33.13	
		15	2180 to 2181	-33.81	
NR_3C 20M+15M+15M	Low	0	2109 to 2110	-32.06	-25.04
		1	2109 to 2110	-32.86	
		14	2109 to 2110	-33.04	
		15	2109 to 2110	-32.99	
	High	0	2180 to 2181	-32.66	
		1	2180 to 2181	-32.83	
		14	2180 to 2181	-33.47	
		15	2180 to 2181	-32.98	
NR_1C_15M + LTE_1C_5M	Low	0	2109 to 2110	-29.59	-25.04
		1	2109 to 2110	-29.89	
		14	2109 to 2110	-30.29	
		15	2109 to 2110	-29.45	
	High	0	2180 to 2181	-34.70	
		1	2180 to 2181	-34.68	
		14	2180 to 2181	-35.38	
		15	2180 to 2181	-34.29	
NR_2C_15M+10M + LTE_2C_15M+10M	Low	0	2109 to 2110	-31.45	-25.04
		1	2109 to 2110	-31.63	
		14	2109 to 2110	-32.47	
		15	2109 to 2110	-32.16	
	High	0	2180 to 2181	-33.39	
		1	2180 to 2181	-33.58	
		14	2180 to 2181	-34.17	
		15	2180 to 2181	-33.52	



FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 200 of 319	

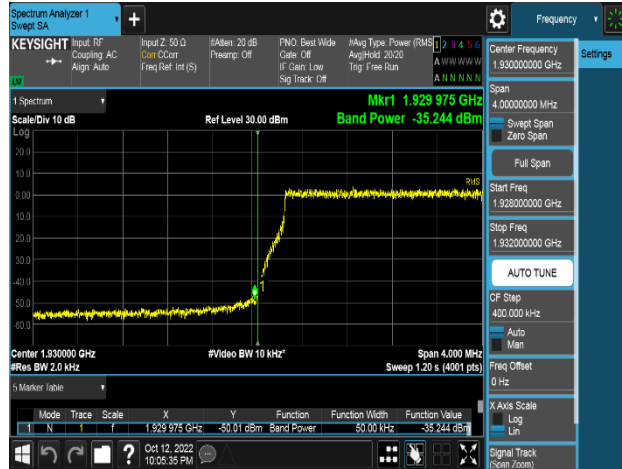
DSS_1C_15M + LTE_1C_5M	Low	0	2109 to 2110	-33.79	-25.04
		1	2109 to 2110	-32.42	
		14	2109 to 2110	-34.24	
		15	2109 to 2110	-33.57	
	High	0	2180 to 2181	-34.97	
		1	2180 to 2181	-34.60	
		14	2180 to 2181	-35.17	
		15	2180 to 2181	-34.45	
DSS_1C_20M + LTE_2C_15M+15M	Low	0	2109 to 2110	-35.21	-25.04
		1	2109 to 2110	-35.87	
		14	2109 to 2110	-35.54	
		15	2109 to 2110	-35.44	
	High	0	2180 to 2181	-35.46	
		1	2180 to 2181	-36.26	
		14	2180 to 2181	-36.56	
		15	2180 to 2181	-35.81	
DSS_1C_15M + NR_1C_5M	Low	0	2109 to 2110	-33.68	-25.04
		1	2109 to 2110	-33.12	
		14	2109 to 2110	-33.76	
		15	2109 to 2110	-33.54	
	High	0	2180 to 2181	-35.14	
		1	2180 to 2181	-34.89	
		14	2180 to 2181	-36.10	
		15	2180 to 2181	-35.15	
DSS_1C_20M + NR_2C_15M+15M	Low	0	2109 to 2110	-35.06	-25.04
		1	2109 to 2110	-34.11	
		14	2109 to 2110	-35.42	
		15	2109 to 2110	-35.17	
	High	0	2180 to 2181	-33.02	
		1	2180 to 2181	-33.35	
		14	2180 to 2181	-33.46	
		15	2180 to 2181	-33.28	
DSS_1C_10M + LTE_1C_5M + NR_1C_5M	Low	0	2109 to 2110	-32.53	-25.04
		1	2109 to 2110	-32.49	
		14	2109 to 2110	-33.30	
		15	2109 to 2110	-33.34	
	High	0	2180 to 2181	-34.28	
		1	2180 to 2181	-33.90	
		14	2180 to 2181	-34.61	
		15	2180 to 2181	-34.25	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 201 of 319	

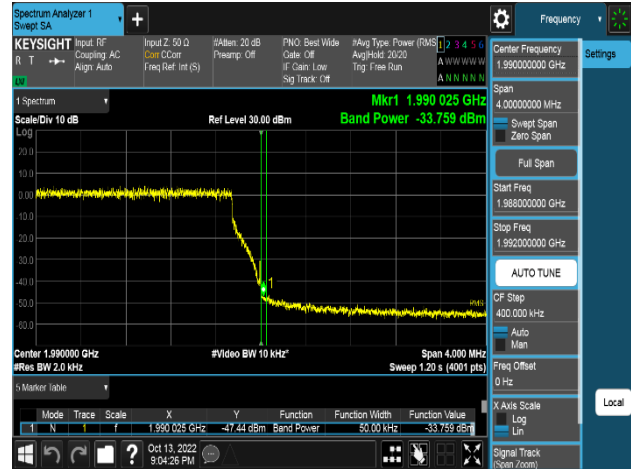
DSS_1C_20M + LTE_1C_15M + NR_1C_15M	Low	0	2109 to 2110	-35.38	-25.04
		1	2109 to 2110	-35.36	
		14	2109 to 2110	-34.57	
		15	2109 to 2110	-35.68	
	High	0	2180 to 2181	-35.84	
		1	2180 to 2181	-36.44	
		14	2180 to 2181	-36.94	
		15	2180 to 2181	-35.89	

Table 8-84. Band Edge Emission Summary Data (AWS_Multi-carrier_Non-Contiguous)

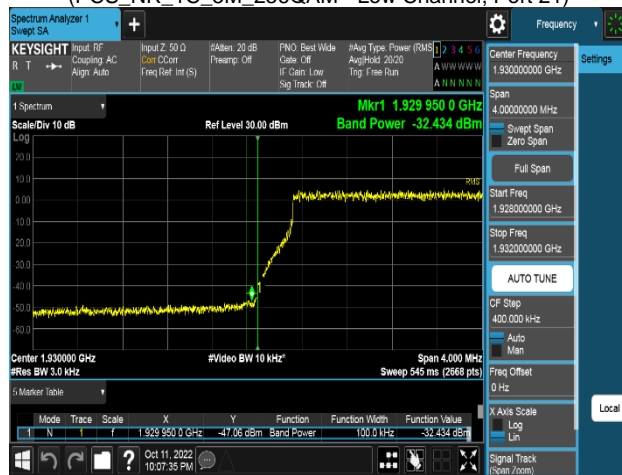
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 202 of 319	



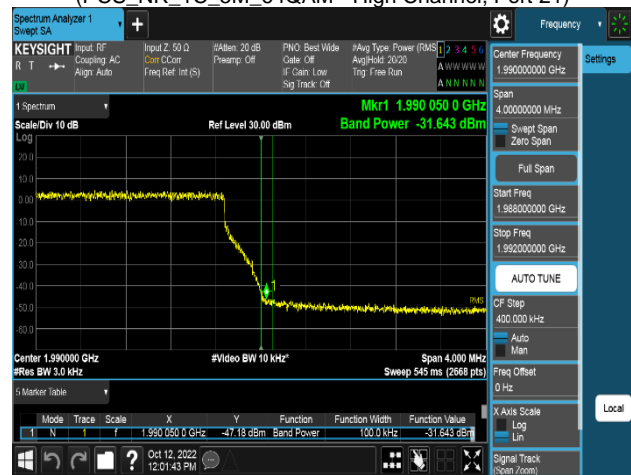
Plot 8-135. Band Edge Emission Plot
(PCS_NR_1C_5M_256QAM - Low Channel, Port 21)



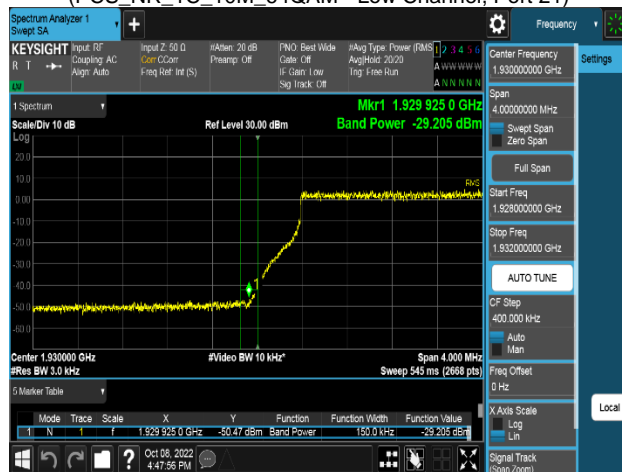
Plot 8-136. Band Edge Emission Plot
(PCS_NR_1C_5M_64QAM - High Channel, Port 21)



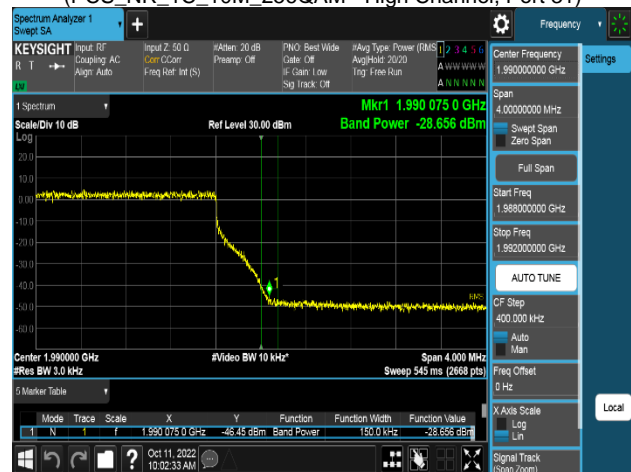
Plot 8-137. Band Edge Emission Plot
(PCS_NR_1C_10M_64QAM - Low Channel, Port 21)



Plot 8-138. Band Edge Emission Plot
(PCS_NR_1C_10M_256QAM - High Channel, Port 31)

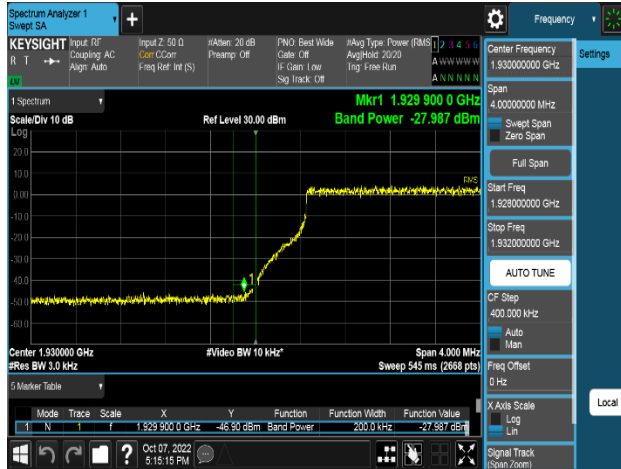


Plot 8-139. Band Edge Emission Plot
(PCS_NR_1C_15M_16QAM - Low Channel, Port 26)



Plot 8-140. Band Edge Emission Plot
(PCS_NR_1C_15M_16QAM - High Channel, Port 24)

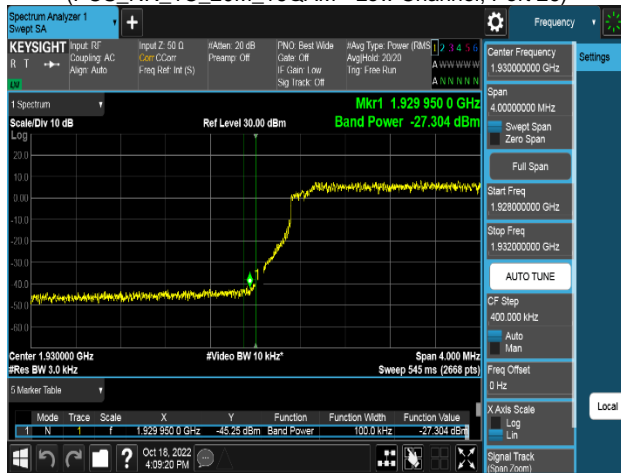
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 203 of 319



Plot 8-141. Band Edge Emission Plot
(PCS_NR_1C_20M_16QAM - Low Channel, Port 26)



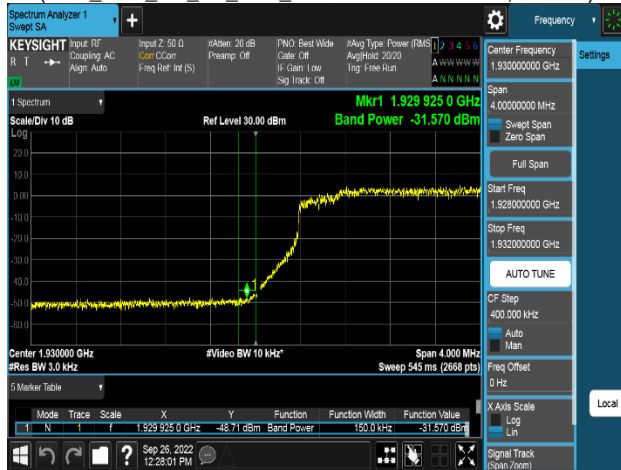
Plot 8-142. Band Edge Emission Plot
(PCS_NR_1C_20M_256QAM - High Channel, Port 24)



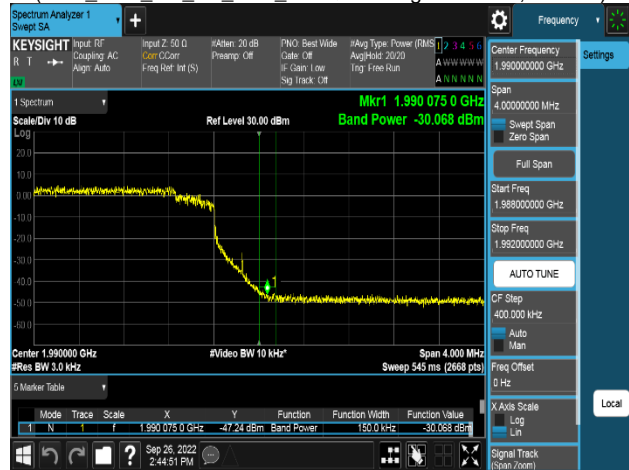
Plot 8-143. Band Edge Emission Plot
(PCS_DSS_9:1_1C_10M_64QAM - Low Channel, Port 16)



Plot 8-144. Band Edge Emission Plot
(PCS_DSS_5:5_1C_10M_256QAM - High Channel, Port 24)

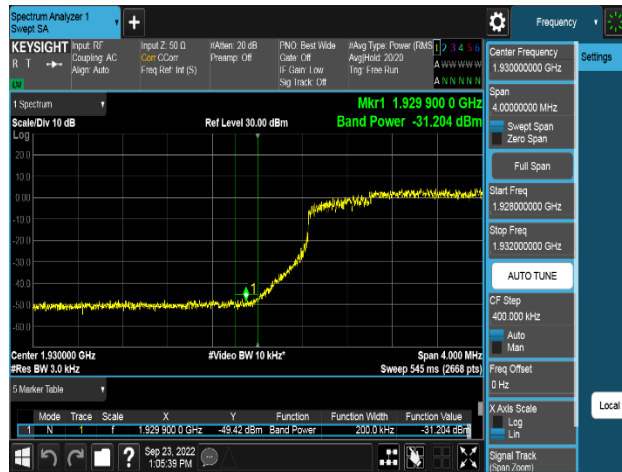


Plot 8-145. Band Edge Emission Plot
(PCS_DSS_5:5_1C_15M_16QAM - Low Channel, Port 20)

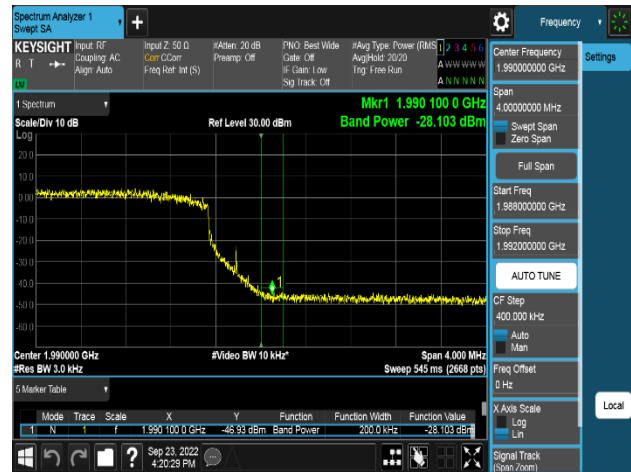


Plot 8-146. Band Edge Emission Plot
(PCS_DSS_5:5_1C_15M_256QAM - High Channel, Port 24)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 204 of 319



Plot 8-147. Band Edge Emission Plot
(PCS_DSS_5:5_1C_20M_16QAM - Low Channel, Port 24)



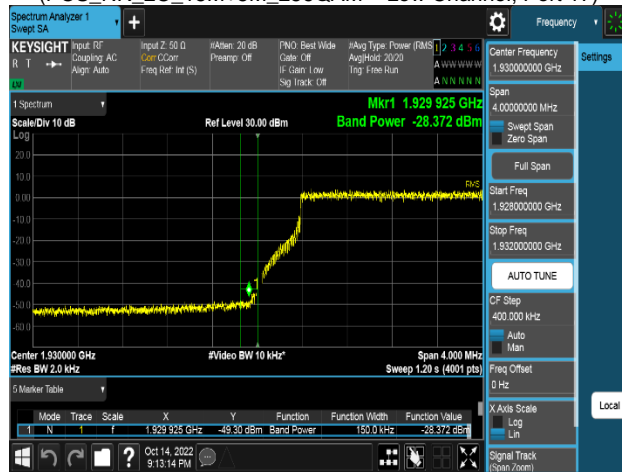
Plot 8-148. Band Edge Emission Plot
(PCS_DSS_2:8_1C_20M_64QAM - High Channel, Port 30)



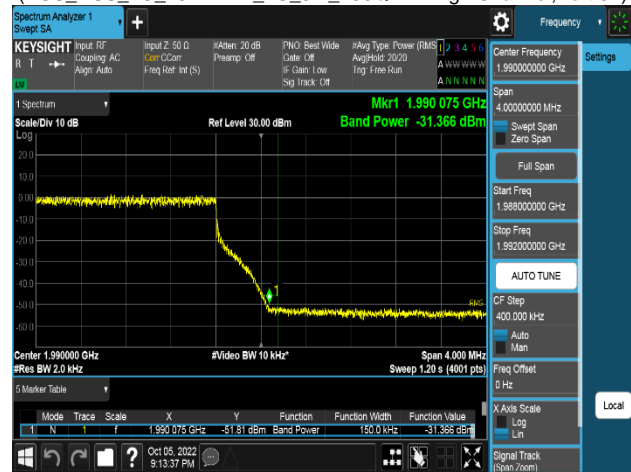
Plot 8-149. Band Edge Emission Plot
(PCS_NR_2C_15M+5M_256QAM - Low Channel, Port 17)



Plot 8-150. Band Edge Emission Plot
(PCS_DSS_1C_15M+LTE_1C_5M_256QAM - High Channel, Port 31)

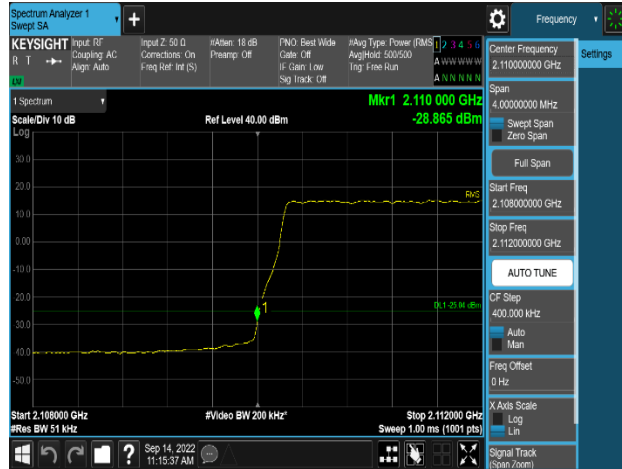


Plot 8-151. Band Edge Emission Plot
(PCS_NR_2C_15M+5M_QPSK_Non-contiguous-Low, Port 17)

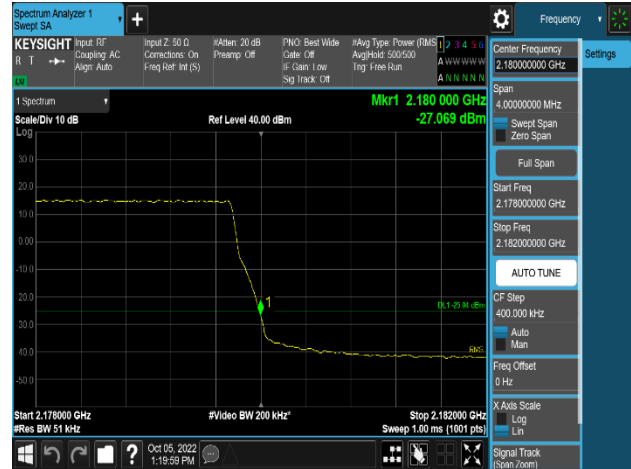


Plot 8-152. Band Edge Emission Plot
(PCS_DSS_1C_15M+NR_1C_15M_QPSK_Non-contiguous-High, Port 30)

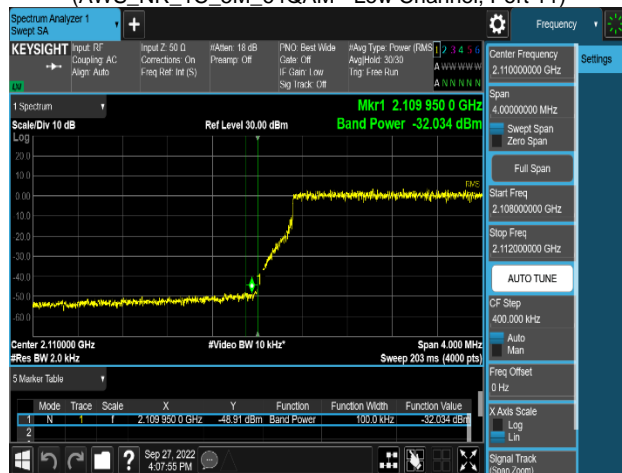
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 205 of 319



Plot 8-153. Band Edge Emission Plot
(AWS_NR_1C_5M_64QAM - Low Channel, Port 1)



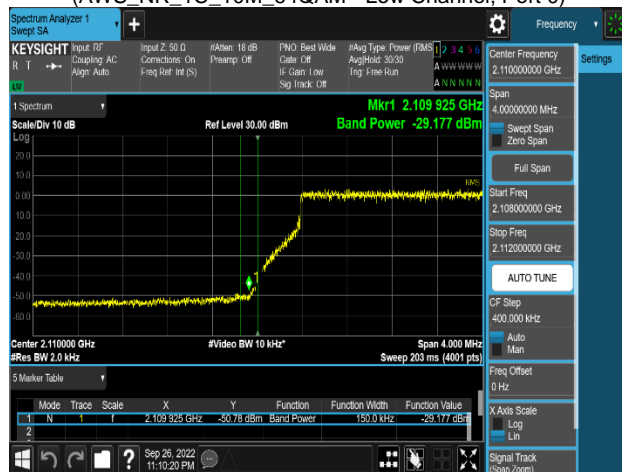
Plot 8-154. Band Edge Emission Plot
(AWS_NR_1C_5M_256QAM - High Channel, Port 0)



Plot 8-155. Band Edge Emission Plot
(AWS_NR_1C_10M_64QAM - Low Channel, Port 0)



Plot 8-156. Band Edge Emission Plot
(AWS_NR_1C_10M_16QAM - High Channel, Port 8)

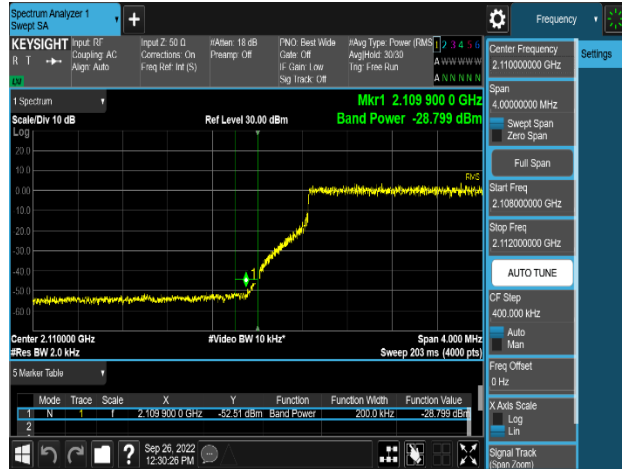


Plot 8-157. Band Edge Emission Plot
(AWS_NR_1C_15M_256QAM - Low Channel, Port 0)

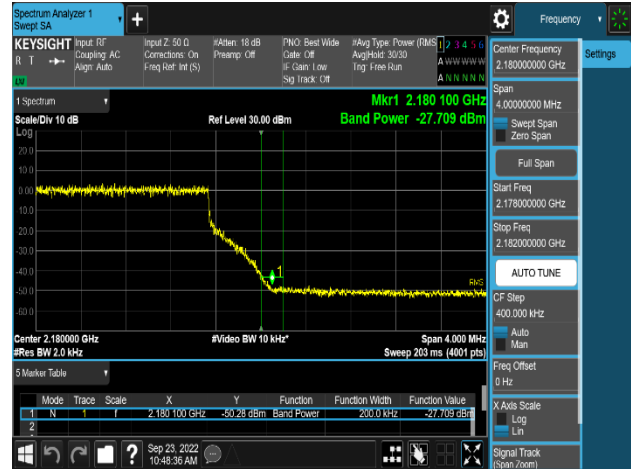


Plot 8-158. Band Edge Emission Plot
(AWS_NR_1C_15M_64QAM - High Channel, Port 2)

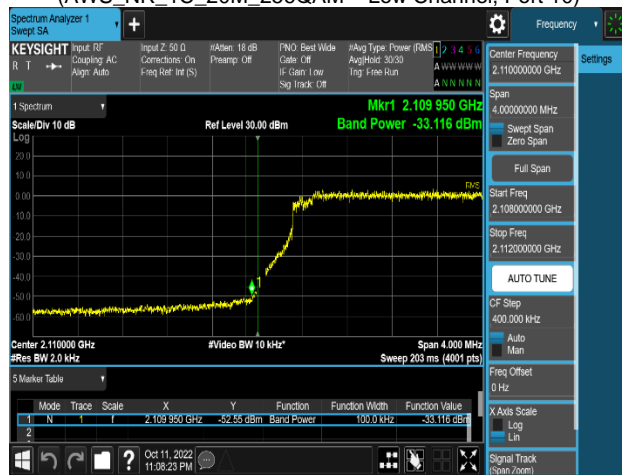
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 206 of 319



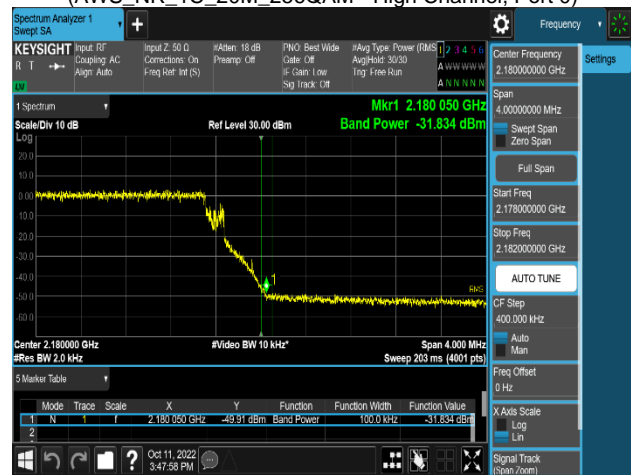
Plot 8-159. Band Edge Emission Plot
(AWS_NR_1C_20M_256QAM – Low Channel, Port 10)



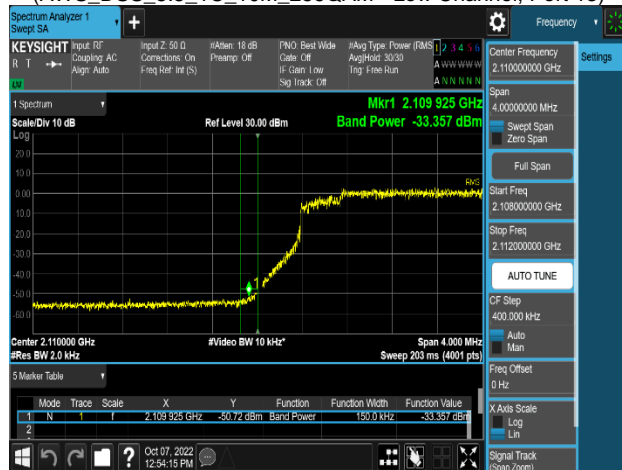
Plot 8-160. Band Edge Emission Plot
(AWS_NR_1C_20M_256QAM - High Channel, Port 0)



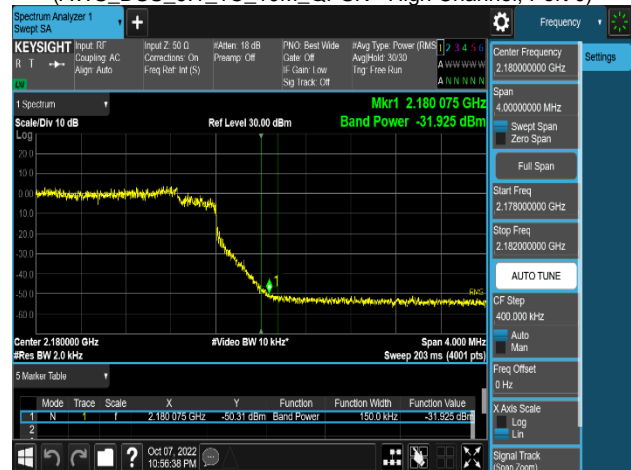
Plot 8-161. Band Edge Emission Plot
(AWS_DSS_5:5_1C_10M_256QAM - Low Channel, Port 13)



Plot 8-162. Band Edge Emission Plot
(AWS_DSS_9:1_1C_10M_QPSK - High Channel, Port 0)

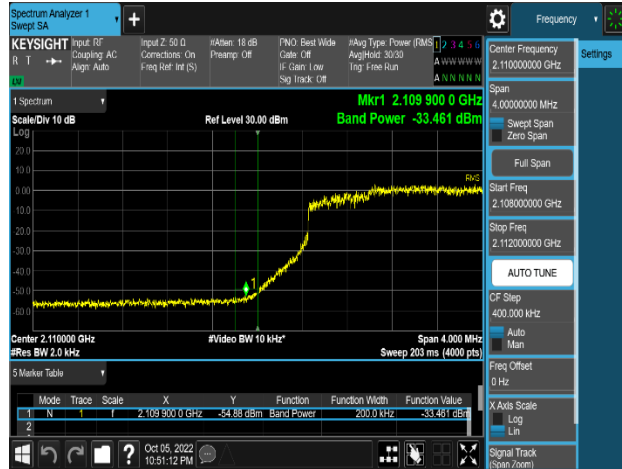


Plot 8-163. Band Edge Emission Plot
(AWS_DSS_5:5_1C_15M_64QAM - Low Channel, Port 8)

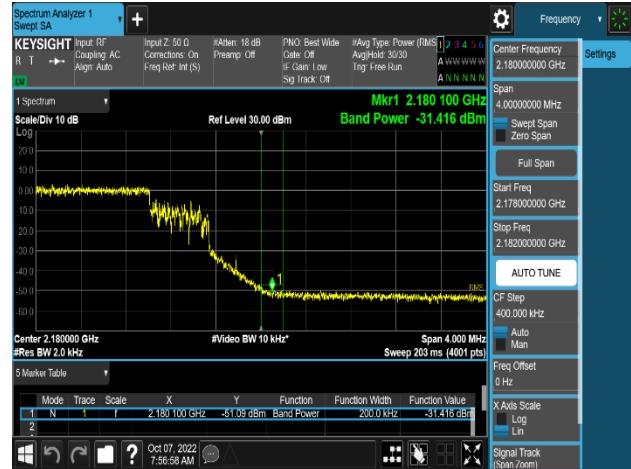


Plot 8-164. Band Edge Emission Plot
(AWS_DSS_5:5_1C_15M_16QAM - High Channel, Port 6)

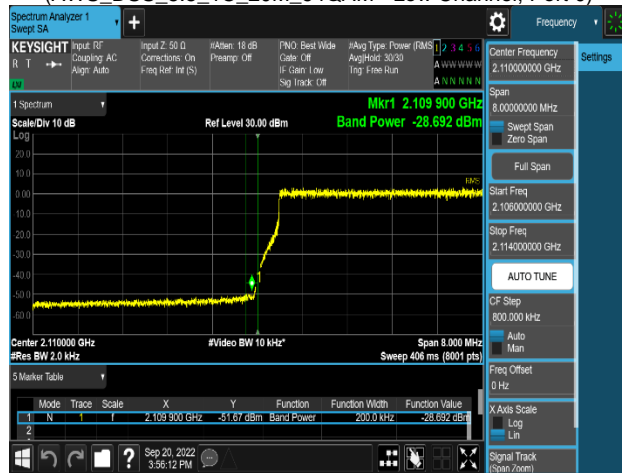
FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 207 of 319



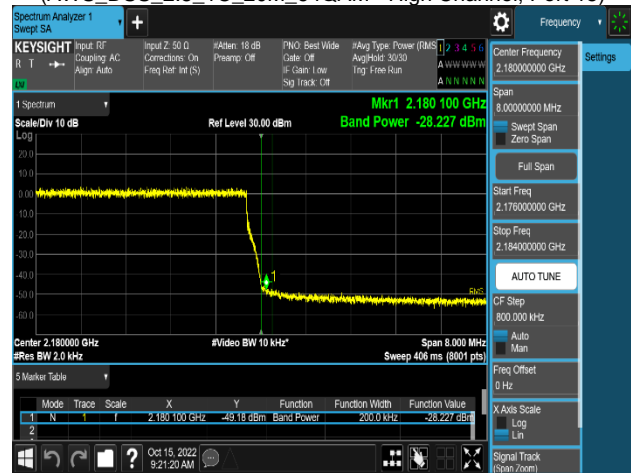
Plot 8-165. Band Edge Emission Plot
(AWS_DSS_5:5_1C_20M_64QAM - Low Channel, Port 0)



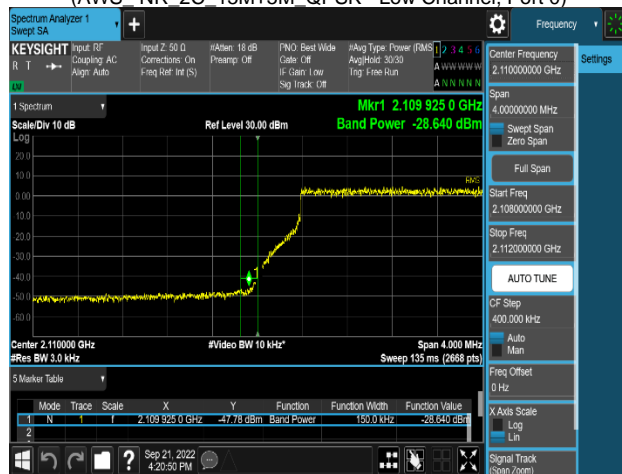
Plot 8-166. Band Edge Emission Plot
(AWS_DSS_2:8_1C_20M_64QAM - High Channel, Port 15)



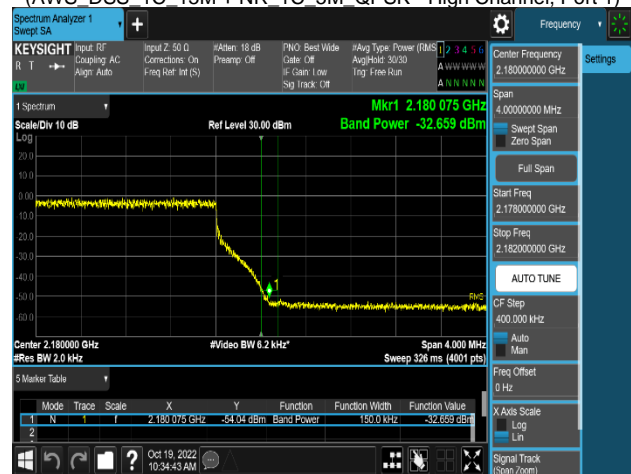
Plot 8-167. Band Edge Emission Plot
(AWS_NR_2C_15M+5M_QPSK - Low Channel, Port 0)



Plot 8-168. Band Edge Emission Plot
(AWS_DSS_1C_15M + NR_1C_5M_QPSK - High Channel, Port 1)



Plot 8-169. Band Edge Emission Plot
(AWS_NR_2C_15M+5M_QPSK-Non-contiguous Low, Port 0)



Plot 8-170. Band Edge Emission Plot
(AWS_NR_3C_20M+15M+15M_QPSK-Non-contiguous High, Port 0)

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)		Page 208 of 319

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

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 209 of 319	

Test Setup

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

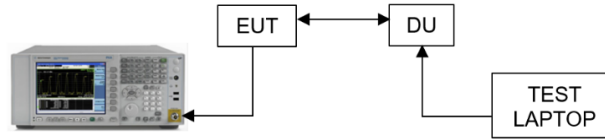


Figure 8-5. Test Instrument & Measurement Setup

Test Notes



1. All modes of operation were investigated and the worst configuration result plots are reported in each operating frequency band.
2. 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.
3. The limits were adjusted by a factor of $[-10 \cdot \log(16)]$ dB to account for the device operation as a 16 port MIMO transmitter, as per FCC KDB 622911. MIMO Factor calculation as below:

$$\text{MIMO Factor} = 10 \cdot \log(16) = 12.04 \text{ dB}$$
4. 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:



$$\text{RBW Factor} = 10 \cdot \log(1/0.1) = 10 \text{ dB for below 1GHz measurement range.}$$

Frequency range	Basic Limit (dBm/MHz)	MIMO Factor (dB)	RBW Factor (dB)	Adjusted limit (dBm)
9 kHz to 150 kHz	-13	12.04	30	-55.04
150 kHz to 30 MHz	-13	12.04	20	-45.04
30 MHz to 1 GHz	-13	12.04	0	-25.04
1 GHz to 3 GHz	-13	12.04	10	-35.04
1 GHz to 22 GHz	-13	12.04	0	-25.04



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

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 210 of 319	



Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	16	9 kHz to 150 kHz	-64.58	-64.38	-64.15	-65.41	-55.04	-9.11
		150 kHz to 30 MHz	-57.07	-56.77	-57.47	-57.13	-45.04	-11.73
		30 MHz to 1 GHz	-49.93	-49.79	-49.95	-49.87	-25.04	-24.75
		1 GHz to 1.929GHz	-39.22	-37.84	-38.02	-37.89	-35.04	-2.80
		1.991 GHz to 3 GHz	-39.77	-39.84	-39.74	-39.80	-35.04	-4.70
		3 GHz to 10 GHz	-42.55	-42.23	-42.51	-42.20	-25.04	-17.16
		10 GHz to 18 GHz	-41.68	-41.53	-40.88	-41.45	-25.04	-15.84
	18 GHz to 22 GHz	-33.01	-32.96	-32.97	-32.92	-25.04	-7.88	
	17	9 kHz to 150 kHz	-64.17	-63.38	-63.26	-64.18	-55.04	-8.22
		150 kHz to 30 MHz	-56.86	-56.79	-56.33	-56.32	-45.04	-11.28
		30 MHz to 1 GHz	-50.09	-50.25	-49.79	-50.10	-25.04	-24.75
		1 GHz to 1.929GHz	-37.95	-37.39	-38.12	-37.74	-35.04	-2.35
		1.991 GHz to 3 GHz	-39.38	-39.33	-39.56	-39.28	-35.04	-4.24
		3 GHz to 10 GHz	-43.54	-43.59	-43.31	-42.90	-25.04	-17.86
		10 GHz to 18 GHz	-44.21	-43.96	-43.71	-43.74	-25.04	-18.67
	18 GHz to 22 GHz	-33.30	-33.14	-33.22	-33.11	-25.04	-8.07	
	18	9 kHz to 150 kHz	-63.58	-63.32	-63.40	-63.98	-55.04	-8.28
		150 kHz to 30 MHz	-56.76	-56.40	-57.07	-56.68	-45.04	-11.36
		30 MHz to 1 GHz	-49.99	-49.66	-50.08	-50.17	-25.04	-24.62
		1 GHz to 1.929GHz	-37.61	-36.78	-37.41	-37.08	-35.04	-1.74
		1.991 GHz to 3 GHz	-39.95	-40.12	-39.95	-40.13	-35.04	-4.91
		3 GHz to 10 GHz	-43.12	-43.01	-43.21	-43.20	-25.04	-17.97
		10 GHz to 18 GHz	-43.95	-43.99	-44.02	-43.83	-25.04	-18.79
	18 GHz to 22 GHz	-32.86	-32.95	-33.14	-33.21	-25.04	-7.82	
	19	9 kHz to 150 kHz	-63.90	-63.85	-63.90	-64.92	-55.04	-8.81
		150 kHz to 30 MHz	-55.97	-56.64	-56.33	-56.63	-45.04	-10.93
		30 MHz to 1 GHz	-50.39	-49.85	-50.09	-50.04	-25.04	-24.81
		1 GHz to 1.929GHz	-37.37	-37.01	-36.45	-36.69	-35.04	-1.41
		1.991 GHz to 3 GHz	-39.67	-39.82	-39.83	-39.36	-35.04	-4.32
		3 GHz to 10 GHz	-42.79	-42.93	-43.43	-43.07	-25.04	-17.75
		10 GHz to 18 GHz	-42.54	-42.47	-43.04	-42.49	-25.04	-17.43
	18 GHz to 22 GHz	-32.83	-32.56	-32.82	-33.31	-25.04	-7.52	
20	9 kHz to 150 kHz	-63.93	-64.27	-63.92	-64.67	-55.04	-8.88	
	150 kHz to 30 MHz	-57.25	-56.96	-56.45	-57.12	-45.04	-11.41	
	30 MHz to 1 GHz	-49.65	-50.14	-50.17	-49.81	-25.04	-24.61	
	1 GHz to 1.929GHz	-39.44	-38.35	-36.13	-38.11	-35.04	-1.09	
	1.991 GHz to 3 GHz	-40.08	-40.23	-40.15	-40.15	-35.04	-5.04	
	3 GHz to 10 GHz	-43.14	-43.42	-43.11	-43.28	-25.04	-18.07	
	10 GHz to 18 GHz	-44.12	-43.81	-44.19	-43.41	-25.04	-18.37	
18 GHz to 22 GHz	-33.27	-32.22	-33.26	-32.85	-25.04	-7.18		

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 211 of 319	



Low	21	9 kHz to 150 kHz	-63.60	-63.63	-63.54	-64.21	-55.04	-8.50
		150 kHz to 30 MHz	-56.91	-56.63	-56.16	-56.32	-45.04	-11.12
		30 MHz to 1 GHz	-49.88	-49.83	-50.15	-49.75	-25.04	-24.71
		1 GHz to 1.929GHz	-37.22	-37.04	-36.83	-37.36	-35.04	-1.79
		1.991 GHz to 3 GHz	-39.43	-39.74	-39.62	-39.31	-35.04	-4.27
		3 GHz to 10 GHz	-43.36	-42.81	-43.03	-42.90	-25.04	-17.77
		10 GHz to 18 GHz	-44.23	-43.97	-44.08	-43.76	-25.04	-18.72
		18 GHz to 22 GHz	-32.77	-32.99	-33.11	-32.75	-25.04	-7.71
	22	9 kHz to 150 kHz	-64.50	-63.87	-64.78	-64.70	-55.04	-8.83
		150 kHz to 30 MHz	-55.75	-57.04	-56.55	-56.55	-45.04	-10.71
		30 MHz to 1 GHz	-49.61	-49.92	-50.20	-50.04	-25.04	-24.57
		1 GHz to 1.929GHz	-37.48	-36.96	-37.50	-37.33	-35.04	-1.92
		1.991 GHz to 3 GHz	-38.98	-39.32	-39.23	-39.10	-35.04	-3.94
		3 GHz to 10 GHz	-43.07	-43.04	-43.20	-43.12	-25.04	-18.00
		10 GHz to 18 GHz	-43.71	-43.02	-44.02	-43.79	-25.04	-17.98
		18 GHz to 22 GHz	-32.82	-33.16	-33.02	-33.31	-25.04	-7.78
	23	9 kHz to 150 kHz	-64.03	-64.13	-62.93	-64.50	-55.04	-7.89
		150 kHz to 30 MHz	-56.77	-57.04	-56.26	-56.31	-45.04	-11.22
		30 MHz to 1 GHz	-49.81	-49.90	-49.82	-50.02	-25.04	-24.77
		1 GHz to 1.929GHz	-36.82	-36.30	-36.89	-36.81	-35.04	-1.26
		1.991 GHz to 3 GHz	-39.42	-39.58	-39.33	-39.59	-35.04	-4.29
		3 GHz to 10 GHz	-42.77	-42.67	-43.04	-43.08	-25.04	-17.63
		10 GHz to 18 GHz	-42.97	-43.43	-43.21	-43.06	-25.04	-17.93
		18 GHz to 22 GHz	-33.23	-33.24	-33.03	-33.16	-25.04	-7.99
	24	9 kHz to 150 kHz	-64.95	-64.72	-65.06	-65.49	-55.04	-9.68
		150 kHz to 30 MHz	-57.13	-56.43	-57.81	-57.32	-45.04	-11.39
		30 MHz to 1 GHz	-50.02	-49.90	-49.33	-49.74	-25.04	-24.29
		1 GHz to 1.929GHz	-37.32	-36.67	-36.87	-36.62	-35.04	-1.58
		1.991 GHz to 3 GHz	-38.90	-38.90	-38.76	-38.39	-35.04	-3.35
		3 GHz to 10 GHz	-41.05	-39.96	-40.05	-40.01	-25.04	-14.92
		10 GHz to 18 GHz	-42.15	-42.69	-41.77	-41.99	-25.04	-16.73
		18 GHz to 22 GHz	-32.93	-32.59	-33.12	-33.11	-25.04	-7.55
	25	9 kHz to 150 kHz	-64.27	-64.08	-64.01	-64.83	-55.04	-8.97
		150 kHz to 30 MHz	-56.72	-56.92	-55.82	-56.24	-45.04	-10.78
		30 MHz to 1 GHz	-50.13	-50.02	-50.16	-50.02	-25.04	-24.98
		1 GHz to 1.929GHz	-37.73	-37.00	-36.33	-36.99	-35.04	-1.29
1.991 GHz to 3 GHz		-39.40	-39.43	-39.32	-39.13	-35.04	-4.09	
3 GHz to 10 GHz		-42.53	-42.58	-42.56	-42.84	-25.04	-17.49	
10 GHz to 18 GHz		-42.99	-42.61	-43.11	-42.70	-25.04	-17.57	
18 GHz to 22 GHz		-33.14	-33.45	-33.31	-33.39	-25.04	-8.10	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 212 of 319	



Low	26	9 kHz to 150 kHz	-64.47	-63.53	-64.12	-65.00	-55.04	-8.49
		150 kHz to 30 MHz	-56.81	-57.04	-56.87	-56.80	-45.04	-11.76
		30 MHz to 1 GHz	-49.96	-50.22	-50.18	-49.80	-25.04	-24.76
		1 GHz to 1.929GHz	-36.86	-36.05	-35.65	-36.49	-35.04	-0.61
		1.991 GHz to 3 GHz	-39.87	-39.95	-39.98	-39.86	-35.04	-4.82
		3 GHz to 10 GHz	-42.55	-42.51	-42.31	-42.82	-25.04	-17.27
		10 GHz to 18 GHz	-42.62	-43.07	-43.08	-42.70	-25.04	-17.58
		18 GHz to 22 GHz	-33.32	-33.32	-33.18	-32.77	-25.04	-7.73
	27	9 kHz to 150 kHz	-65.04	-64.34	-64.31	-64.99	-55.04	-9.27
		150 kHz to 30 MHz	-56.53	-57.17	-57.39	-56.22	-45.04	-11.18
		30 MHz to 1 GHz	-49.60	-50.05	-49.79	-49.87	-25.04	-24.56
		1 GHz to 1.929GHz	-38.22	-37.38	-37.71	-37.30	-35.04	-2.26
		1.991 GHz to 3 GHz	-39.65	-39.45	-39.68	-39.43	-35.04	-4.39
		3 GHz to 10 GHz	-42.51	-42.58	-42.44	-42.59	-25.04	-17.40
		10 GHz to 18 GHz	-43.52	-43.47	-43.88	-43.83	-25.04	-18.43
		18 GHz to 22 GHz	-33.25	-33.36	-32.62	-32.80	-25.04	-7.58
	28	9 kHz to 150 kHz	-64.03	-63.89	-64.07	-64.63	-55.04	-8.85
		150 kHz to 30 MHz	-56.42	-56.28	-57.31	-56.27	-45.04	-11.23
		30 MHz to 1 GHz	-49.99	-50.28	-50.05	-50.03	-25.04	-24.95
		1 GHz to 1.929GHz	-36.69	-35.93	-36.67	-36.32	-35.04	-0.89
		1.991 GHz to 3 GHz	-39.94	-39.92	-39.93	-39.53	-35.04	-4.49
		3 GHz to 10 GHz	-42.08	-41.59	-42.95	-42.34	-25.04	-16.55
		10 GHz to 18 GHz	-43.45	-43.71	-43.46	-42.68	-25.04	-17.64
		18 GHz to 22 GHz	-32.72	-33.31	-32.99	-33.00	-25.04	-7.68
	29	9 kHz to 150 kHz	-64.43	-63.79	-64.35	-64.84	-55.04	-8.75
		150 kHz to 30 MHz	-56.97	-56.93	-57.15	-56.40	-45.04	-11.36
		30 MHz to 1 GHz	-49.76	-49.75	-49.54	-49.68	-25.04	-24.50
		1 GHz to 1.929GHz	-37.29	-36.64	-36.66	-36.20	-35.04	-1.16
		1.991 GHz to 3 GHz	-39.16	-39.40	-39.39	-39.53	-35.04	-4.12
		3 GHz to 10 GHz	-42.47	-42.20	-42.55	-42.24	-25.04	-17.16
		10 GHz to 18 GHz	-42.68	-42.11	-42.36	-42.52	-25.04	-17.07
		18 GHz to 22 GHz	-33.16	-33.16	-33.19	-33.26	-25.04	-8.12
	30	9 kHz to 150 kHz	-63.24	-63.31	-63.22	-64.04	-55.04	-8.18
		150 kHz to 30 MHz	-55.94	-56.43	-57.01	-56.28	-45.04	-10.90
		30 MHz to 1 GHz	-50.25	-50.19	-49.88	-49.97	-25.04	-24.84
		1 GHz to 1.929GHz	-38.11	-37.80	-38.42	-37.37	-35.04	-2.33
1.991 GHz to 3 GHz		-40.00	-40.05	-39.87	-40.11	-35.04	-4.83	
3 GHz to 10 GHz		-42.66	-43.09	-42.95	-42.84	-25.04	-17.62	
10 GHz to 18 GHz		-43.51	-42.92	-43.18	-43.12	-25.04	-17.88	
18 GHz to 22 GHz		-33.15	-33.23	-33.03	-33.03	-25.04	-7.99	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 213 of 319	



Low	31	9 kHz to 150 kHz	-66.25	-65.03	-65.18	-64.80	-55.04	-9.76
		150 kHz to 30 MHz	-56.14	-57.19	-57.43	-57.35	-45.04	-11.10
		30 MHz to 1 GHz	-50.02	-50.05	-49.72	-49.17	-25.04	-24.13
		1 GHz to 1.929GHz	-38.22	-37.59	-37.10	-37.19	-35.04	-2.06
		1.991 GHz to 3 GHz	-39.03	-39.40	-39.29	-39.20	-35.04	-3.99
		3 GHz to 10 GHz	-41.41	-41.38	-41.51	-41.19	-25.04	-16.15
		10 GHz to 18 GHz	-43.02	-43.04	-43.15	-42.69	-25.04	-17.65
		18 GHz to 22 GHz	-33.07	-33.32	-33.31	-33.01	-25.04	-7.97
Mid	16	9 kHz to 150 kHz	-65.63	-64.66	-65.65	-65.73	-55.04	-9.62
		150 kHz to 30 MHz	-57.55	-56.70	-56.68	-56.58	-45.04	-11.54
		30 MHz to 1 GHz	-50.14	-49.86	-49.96	-49.67	-25.04	-24.63
		1 GHz to 1.929GHz	-42.42	-42.28	-42.25	-42.29	-35.04	-7.21
		1.991 GHz to 3 GHz	-39.93	-39.69	-39.43	-39.84	-35.04	-4.39
		3 GHz to 10 GHz	-42.45	-42.41	-42.11	-42.56	-25.04	-17.07
		10 GHz to 18 GHz	-41.36	-41.47	-41.80	-41.83	-25.04	-16.32
		18 GHz to 22 GHz	-33.23	-32.95	-33.22	-32.77	-25.04	-7.73
	17	9 kHz to 150 kHz	-64.92	-64.17	-64.33	-64.80	-55.04	-9.13
		150 kHz to 30 MHz	-56.58	-56.65	-56.84	-56.26	-45.04	-11.22
		30 MHz to 1 GHz	-50.09	-49.97	-49.95	-50.15	-25.04	-24.91
		1 GHz to 1.929GHz	-41.28	-41.93	-42.14	-41.27	-35.04	-6.23
		1.991 GHz to 3 GHz	-39.29	-39.42	-39.45	-39.47	-35.04	-4.25
		3 GHz to 10 GHz	-42.93	-43.54	-43.13	-43.25	-25.04	-17.89
		10 GHz to 18 GHz	-43.93	-43.40	-44.06	-44.06	-25.04	-18.36
		18 GHz to 22 GHz	-32.79	-32.44	-33.21	-32.68	-25.04	-7.40
	18	9 kHz to 150 kHz	-64.51	-63.68	-64.31	-65.03	-55.04	-8.64
		150 kHz to 30 MHz	-55.94	-56.90	-56.42	-57.31	-45.04	-10.90
		30 MHz to 1 GHz	-50.16	-50.30	-50.12	-50.11	-25.04	-25.07
		1 GHz to 1.929GHz	-42.58	-42.17	-42.14	-42.03	-35.04	-6.99
		1.991 GHz to 3 GHz	-40.17	-39.85	-39.38	-40.01	-35.04	-4.34
		3 GHz to 10 GHz	-43.51	-42.82	-42.96	-43.11	-25.04	-17.78
		10 GHz to 18 GHz	-43.62	-44.05	-43.67	-44.26	-25.04	-18.58
		18 GHz to 22 GHz	-33.67	-33.03	-33.08	-32.31	-25.04	-7.27
	19	9 kHz to 150 kHz	-65.35	-63.53	-64.14	-64.08	-55.04	-8.49
		150 kHz to 30 MHz	-56.39	-57.04	-56.98	-56.20	-45.04	-11.16
		30 MHz to 1 GHz	-50.18	-50.34	-50.31	-50.03	-25.04	-24.99
		1 GHz to 1.929GHz	-42.06	-42.08	-42.05	-42.01	-35.04	-6.97
1.991 GHz to 3 GHz		-39.16	-39.62	-39.44	-39.37	-35.04	-4.12	
3 GHz to 10 GHz		-43.14	-43.09	-43.29	-42.69	-25.04	-17.65	
10 GHz to 18 GHz		-42.93	-42.98	-42.84	-42.81	-25.04	-17.77	
18 GHz to 22 GHz		-32.93	-32.95	-33.14	-33.17	-25.04	-7.89	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 214 of 319	



Mid	20	9 kHz to 150 kHz	-65.41	-64.53	-65.07	-65.13	-55.04	-9.49
		150 kHz to 30 MHz	-57.16	-56.47	-57.58	-56.73	-45.04	-11.43
		30 MHz to 1 GHz	-50.03	-50.09	-49.91	-49.88	-25.04	-24.84
		1 GHz to 1.929GHz	-42.84	-42.61	-42.34	-42.79	-35.04	-7.30
		1.991 GHz to 3 GHz	-40.19	-40.10	-40.02	-40.02	-35.04	-4.98
		3 GHz to 10 GHz	-42.70	-43.01	-43.08	-43.37	-25.04	-17.66
		10 GHz to 18 GHz	-44.14	-44.21	-44.27	-44.16	-25.04	-19.10
		18 GHz to 22 GHz	-32.88	-32.80	-32.67	-33.03	-25.04	-7.63
	21	9 kHz to 150 kHz	-65.11	-64.80	-63.82	-65.20	-55.04	-8.78
		150 kHz to 30 MHz	-56.38	-57.01	-57.39	-56.81	-45.04	-11.34
		30 MHz to 1 GHz	-49.87	-50.13	-50.03	-50.17	-25.04	-24.83
		1 GHz to 1.929GHz	-41.21	-41.47	-41.57	-41.52	-35.04	-6.17
		1.991 GHz to 3 GHz	-39.78	-39.54	-39.35	-39.40	-35.04	-4.31
		3 GHz to 10 GHz	-43.38	-42.90	-43.09	-42.91	-25.04	-17.86
		10 GHz to 18 GHz	-43.84	-44.12	-44.15	-43.96	-25.04	-18.80
		18 GHz to 22 GHz	-33.21	-32.74	-33.03	-33.09	-25.04	-7.70
	22	9 kHz to 150 kHz	-64.74	-63.50	-64.40	-65.28	-55.04	-8.46
		150 kHz to 30 MHz	-56.97	-56.88	-56.78	-56.77	-45.04	-11.73
		30 MHz to 1 GHz	-50.11	-49.87	-50.06	-49.89	-25.04	-24.83
		1 GHz to 1.929GHz	-41.49	-41.60	-41.08	-41.56	-35.04	-6.04
		1.991 GHz to 3 GHz	-38.87	-38.85	-39.07	-39.08	-35.04	-3.81
		3 GHz to 10 GHz	-43.27	-42.99	-43.12	-43.29	-25.04	-17.95
		10 GHz to 18 GHz	-43.59	-43.85	-44.00	-43.61	-25.04	-18.55
		18 GHz to 22 GHz	-32.77	-32.27	-33.35	-32.66	-25.04	-7.23
	23	9 kHz to 150 kHz	-64.97	-64.32	-64.48	-65.30	-55.04	-9.28
		150 kHz to 30 MHz	-56.49	-56.07	-56.42	-55.84	-45.04	-10.80
		30 MHz to 1 GHz	-49.86	-49.82	-50.01	-49.97	-25.04	-24.78
		1 GHz to 1.929GHz	-41.50	-41.26	-41.97	-41.57	-35.04	-6.22
		1.991 GHz to 3 GHz	-39.52	-39.54	-39.15	-39.39	-35.04	-4.11
		3 GHz to 10 GHz	-43.18	-42.69	-43.25	-43.10	-25.04	-17.65
		10 GHz to 18 GHz	-43.63	-43.21	-43.48	-43.45	-25.04	-18.17
		18 GHz to 22 GHz	-33.15	-33.13	-33.18	-33.12	-25.04	-8.08
24	9 kHz to 150 kHz	-65.91	-64.88	-64.90	-66.01	-55.04	-9.84	
	150 kHz to 30 MHz	-57.16	-58.16	-56.38	-57.21	-45.04	-11.34	
	30 MHz to 1 GHz	-49.94	-49.91	-49.90	-49.99	-25.04	-24.86	
	1 GHz to 1.929GHz	-40.61	-40.85	-40.71	-40.59	-35.04	-5.55	
	1.991 GHz to 3 GHz	-38.72	-38.37	-38.12	-38.37	-35.04	-3.08	
	3 GHz to 10 GHz	-41.16	-41.54	-41.45	-38.79	-25.04	-13.75	
	10 GHz to 18 GHz	-42.12	-42.36	-42.51	-42.12	-25.04	-17.08	
	18 GHz to 22 GHz	-33.37	-32.91	-33.23	-33.07	-25.04	-7.87	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 215 of 319	



Mid	25	9 kHz to 150 kHz	-65.56	-64.90	-65.25	-65.09	-55.04	-9.86
		150 kHz to 30 MHz	-57.60	-56.09	-56.80	-56.33	-45.04	-11.05
		30 MHz to 1 GHz	-50.23	-49.93	-49.83	-49.72	-25.04	-24.68
		1 GHz to 1.929GHz	-41.48	-41.72	-41.59	-41.19	-35.04	-6.15
		1.991 GHz to 3 GHz	-39.50	-39.42	-39.46	-39.40	-35.04	-4.36
		3 GHz to 10 GHz	-42.59	-42.79	-42.57	-42.95	-25.04	-17.53
		10 GHz to 18 GHz	-42.60	-42.87	-42.52	-42.57	-25.04	-17.48
		18 GHz to 22 GHz	-32.72	-32.82	-33.07	-33.03	-25.04	-7.68
	26	9 kHz to 150 kHz	-64.50	-64.86	-64.94	-65.10	-55.04	-9.46
		150 kHz to 30 MHz	-56.96	-56.57	-57.45	-57.61	-45.04	-11.53
		30 MHz to 1 GHz	-50.06	-49.85	-50.09	-50.04	-25.04	-24.81
		1 GHz to 1.929GHz	-41.85	-41.75	-42.09	-42.09	-35.04	-6.71
		1.991 GHz to 3 GHz	-39.85	-39.75	-39.80	-39.83	-35.04	-4.71
		3 GHz to 10 GHz	-42.66	-42.98	-42.69	-42.66	-25.04	-17.62
		10 GHz to 18 GHz	-42.64	-42.75	-42.63	-43.10	-25.04	-17.59
		18 GHz to 22 GHz	-33.41	-33.00	-33.07	-32.81	-25.04	-7.77
	27	9 kHz to 150 kHz	-65.61	-64.57	-65.32	-65.02	-55.04	-9.53
		150 kHz to 30 MHz	-57.36	-56.91	-56.82	-57.64	-45.04	-11.78
		30 MHz to 1 GHz	-49.67	-49.88	-49.78	-49.71	-25.04	-24.63
		1 GHz to 1.929GHz	-42.16	-41.85	-42.36	-41.86	-35.04	-6.81
		1.991 GHz to 3 GHz	-39.86	-39.74	-39.65	-39.70	-35.04	-4.61
		3 GHz to 10 GHz	-42.99	-42.83	-42.75	-42.67	-25.04	-17.63
		10 GHz to 18 GHz	-43.60	-43.04	-43.34	-43.84	-25.04	-18.00
		18 GHz to 22 GHz	-32.88	-33.13	-33.22	-33.18	-25.04	-7.84
	28	9 kHz to 150 kHz	-64.73	-64.93	-64.45	-65.29	-55.04	-9.41
		150 kHz to 30 MHz	-56.63	-57.50	-56.79	-57.06	-45.04	-11.59
		30 MHz to 1 GHz	-49.67	-49.69	-50.07	-50.25	-25.04	-24.63
		1 GHz to 1.929GHz	-42.05	-41.87	-41.47	-41.51	-35.04	-6.43
		1.991 GHz to 3 GHz	-39.69	-39.28	-39.93	-39.71	-35.04	-4.24
		3 GHz to 10 GHz	-42.62	-42.66	-42.84	-42.94	-25.04	-17.58
		10 GHz to 18 GHz	-42.96	-43.50	-43.28	-43.38	-25.04	-17.92
		18 GHz to 22 GHz	-32.88	-32.97	-33.04	-33.30	-25.04	-7.84
29	9 kHz to 150 kHz	-65.44	-65.09	-65.13	-65.10	-55.04	-10.05	
	150 kHz to 30 MHz	-56.23	-55.74	-56.50	-56.80	-45.04	-10.70	
	30 MHz to 1 GHz	-50.08	-50.18	-50.03	-50.21	-25.04	-24.99	
	1 GHz to 1.929GHz	-41.36	-41.16	-41.00	-41.15	-35.04	-5.96	
	1.991 GHz to 3 GHz	-39.41	-39.32	-39.32	-39.47	-35.04	-4.28	
	3 GHz to 10 GHz	-42.37	-42.66	-42.21	-42.48	-25.04	-17.17	
	10 GHz to 18 GHz	-42.24	-42.27	-42.42	-42.21	-25.04	-17.17	
	18 GHz to 22 GHz	-33.15	-33.04	-32.92	-32.88	-25.04	-7.84	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 216 of 319	

Mid	30	9 kHz to 150 kHz	-64.34	-64.81	-63.94	-65.31	-55.04	-8.90
		150 kHz to 30 MHz	-56.87	-56.14	-56.64	-55.48	-45.04	-10.44
		30 MHz to 1 GHz	-50.11	-50.04	-50.03	-50.38	-25.04	-24.99
		1 GHz to 1.929GHz	-42.84	-42.57	-42.46	-42.22	-35.04	-7.18
		1.991 GHz to 3 GHz	-39.83	-39.84	-39.77	-39.77	-35.04	-4.73
		3 GHz to 10 GHz	-42.59	-42.90	-42.79	-42.95	-25.04	-17.55
		10 GHz to 18 GHz	-43.22	-43.12	-43.17	-43.27	-25.04	-18.08
		18 GHz to 22 GHz	-32.96	-32.07	-32.81	-33.22	-25.04	-7.03
	31	9 kHz to 150 kHz	-65.30	-65.30	-65.26	-65.99	-55.04	-10.22
		150 kHz to 30 MHz	-56.42	-57.60	-57.47	-57.52	-45.04	-11.38
		30 MHz to 1 GHz	-49.84	-49.94	-49.99	-49.91	-25.04	-24.80
		1 GHz to 1.929GHz	-41.91	-42.25	-41.89	-42.22	-35.04	-6.85
		1.991 GHz to 3 GHz	-39.24	-39.23	-39.36	-39.18	-35.04	-4.14
		3 GHz to 10 GHz	-41.22	-41.37	-41.48	-41.14	-25.04	-16.10
10 GHz to 18 GHz		-42.23	-42.73	-43.00	-42.91	-25.04	-17.19	
18 GHz to 22 GHz		-33.03	-33.09	-32.95	-33.18	-25.04	-7.91	
High	16	9 kHz to 150 kHz	-65.96	-65.47	-65.47	-65.63	-55.04	-10.43
		150 kHz to 30 MHz	-57.24	-58.05	-57.66	-57.39	-45.04	-12.20
		30 MHz to 1 GHz	-49.82	-50.00	-50.11	-49.98	-25.04	-24.78
		1 GHz to 1.929GHz	-42.50	-42.87	-42.90	-42.90	-35.04	-7.46
		1.991 GHz to 3 GHz	-36.84	-36.13	-36.46	-37.40	-35.04	-1.09
		3 GHz to 10 GHz	-42.21	-42.46	-42.68	-42.52	-25.04	-17.17
		10 GHz to 18 GHz	-41.90	-41.60	-41.31	-41.54	-25.04	-16.27
		18 GHz to 22 GHz	-33.39	-33.08	-33.06	-32.99	-25.04	-7.95
	17	9 kHz to 150 kHz	-65.61	-65.10	-64.32	-65.77	-55.04	-9.28
		150 kHz to 30 MHz	-56.47	-56.85	-57.33	-56.92	-45.04	-11.43
		30 MHz to 1 GHz	-49.84	-50.28	-50.05	-49.89	-25.04	-24.80
		1 GHz to 1.929GHz	-42.16	-42.21	-42.20	-42.40	-35.04	-7.12
		1.991 GHz to 3 GHz	-36.46	-36.71	-35.68	-37.34	-35.04	-0.64
		3 GHz to 10 GHz	-43.30	-43.73	-43.45	-43.30	-25.04	-18.26
		10 GHz to 18 GHz	-43.84	-43.58	-43.94	-43.75	-25.04	-18.54
		18 GHz to 22 GHz	-33.21	-32.78	-33.17	-33.32	-25.04	-7.74
	18	9 kHz to 150 kHz	-65.13	-65.02	-65.55	-64.75	-55.04	-9.71
		150 kHz to 30 MHz	-57.38	-56.78	-57.75	-57.06	-45.04	-11.74
		30 MHz to 1 GHz	-50.16	-50.07	-49.65	-49.52	-25.04	-24.48
		1 GHz to 1.929GHz	-42.74	-42.74	-42.70	-42.91	-35.04	-7.66
		1.991 GHz to 3 GHz	-37.03	-37.33	-36.53	-37.77	-35.04	-1.49
		3 GHz to 10 GHz	-42.82	-43.48	-43.02	-43.09	-25.04	-17.78
		10 GHz to 18 GHz	-44.11	-43.69	-43.71	-44.07	-25.04	-18.65
		18 GHz to 22 GHz	-32.86	-33.33	-32.84	-32.71	-25.04	-7.67

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 217 of 319	

High	19	9 kHz to 150 kHz	-64.74	-65.58	-65.35	-65.41	-55.04	-9.70
		150 kHz to 30 MHz	-56.65	-57.06	-57.38	-56.63	-45.04	-11.59
		30 MHz to 1 GHz	-50.10	-50.45	-50.26	-50.36	-25.04	-25.06
		1 GHz to 1.929GHz	-42.69	-42.39	-42.54	-42.61	-35.04	-7.35
		1.991 GHz to 3 GHz	-36.66	-36.73	-36.58	-37.20	-35.04	-1.54
		3 GHz to 10 GHz	-43.45	-43.10	-43.18	-42.78	-25.04	-17.74
		10 GHz to 18 GHz	-42.86	-42.75	-43.11	-42.92	-25.04	-17.71
		18 GHz to 22 GHz	-32.50	-32.95	-33.16	-33.22	-25.04	-7.46
	20	9 kHz to 150 kHz	-65.69	-65.69	-63.93	-65.90	-55.04	-8.89
		150 kHz to 30 MHz	-57.12	-57.83	-56.96	-57.46	-45.04	-11.92
		30 MHz to 1 GHz	-50.20	-50.12	-50.04	-49.56	-25.04	-24.52
		1 GHz to 1.929GHz	-42.90	-43.03	-42.81	-43.33	-35.04	-7.77
		1.991 GHz to 3 GHz	-37.53	-36.96	-37.78	-37.90	-35.04	-1.92
		3 GHz to 10 GHz	-43.27	-43.55	-42.48	-42.92	-25.04	-17.44
		10 GHz to 18 GHz	-44.14	-44.11	-43.88	-43.80	-25.04	-18.76
		18 GHz to 22 GHz	-32.59	-32.81	-33.24	-32.80	-25.04	-7.55
	21	9 kHz to 150 kHz	-65.34	-65.43	-64.60	-65.39	-55.04	-9.56
		150 kHz to 30 MHz	-57.19	-56.90	-57.74	-56.58	-45.04	-11.54
		30 MHz to 1 GHz	-50.08	-50.09	-50.18	-50.16	-25.04	-25.04
		1 GHz to 1.929GHz	-42.23	-42.26	-42.29	-42.43	-35.04	-7.19
		1.991 GHz to 3 GHz	-36.25	-36.41	-36.05	-37.18	-35.04	-1.01
		3 GHz to 10 GHz	-42.71	-42.55	-43.08	-43.17	-25.04	-17.51
		10 GHz to 18 GHz	-44.32	-43.80	-44.36	-43.79	-25.04	-18.75
		18 GHz to 22 GHz	-33.08	-32.79	-33.56	-32.82	-25.04	-7.75
	22	9 kHz to 150 kHz	-65.42	-64.69	-65.31	-65.81	-55.04	-9.65
		150 kHz to 30 MHz	-56.19	-56.49	-56.91	-56.90	-45.04	-11.15
		30 MHz to 1 GHz	-49.72	-50.24	-49.94	-50.09	-25.04	-24.68
		1 GHz to 1.929GHz	-42.18	-42.22	-41.68	-42.16	-35.04	-6.64
1.991 GHz to 3 GHz		-35.60	-36.06	-35.81	-36.60	-35.04	-0.56	
3 GHz to 10 GHz		-42.79	-43.21	-43.12	-42.59	-25.04	-17.55	
10 GHz to 18 GHz		-43.88	-43.60	-43.84	-43.58	-25.04	-18.54	
18 GHz to 22 GHz		-33.10	-33.18	-33.04	-32.84	-25.04	-7.80	
23	9 kHz to 150 kHz	-65.77	-65.14	-64.70	-65.89	-55.04	-9.65	
	150 kHz to 30 MHz	-56.64	-56.95	-56.10	-56.94	-45.04	-11.06	
	30 MHz to 1 GHz	-49.53	-49.96	-49.64	-49.66	-25.04	-24.49	
	1 GHz to 1.929GHz	-41.89	-42.36	-42.44	-42.11	-35.04	-6.85	
	1.991 GHz to 3 GHz	-36.49	-36.47	-35.96	-36.67	-35.04	-0.91	
	3 GHz to 10 GHz	-43.10	-42.70	-43.20	-42.77	-25.04	-17.66	
	10 GHz to 18 GHz	-43.48	-43.63	-43.61	-43.16	-25.04	-18.12	
	18 GHz to 22 GHz	-32.96	-33.00	-33.01	-32.59	-25.04	-7.55	

FCC ID: A3LMF1601D-25A		MEASUREMENT REPORT (Class II Permissive Change)		Approved by: Technical Manager
Test Report S/N: 8K22072301-00-R1.A3L	Test Dates: 09/01/2022 - 11/01/2022	EUT Type: MMU(MF1601d)	Page 218 of 319	