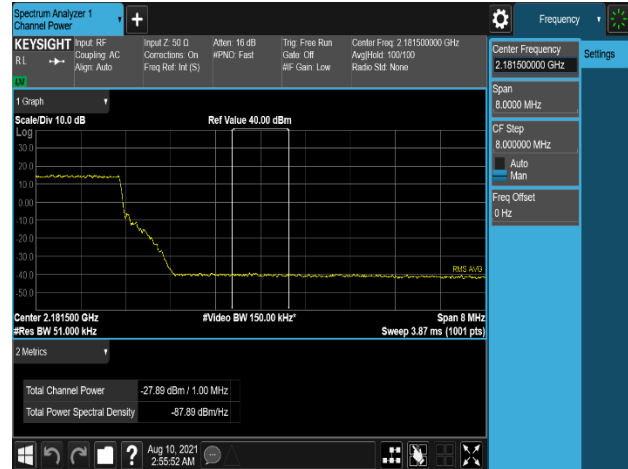
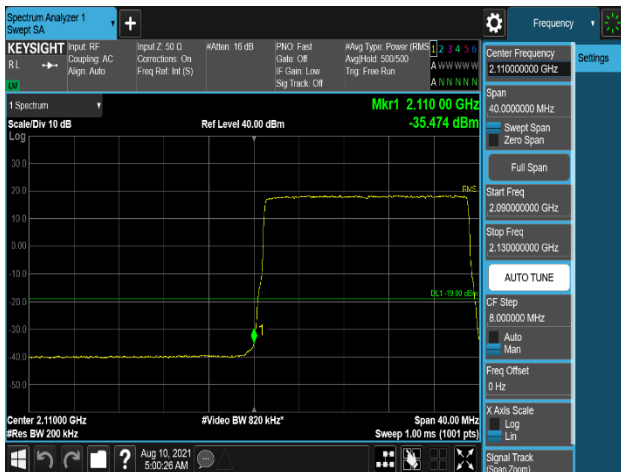


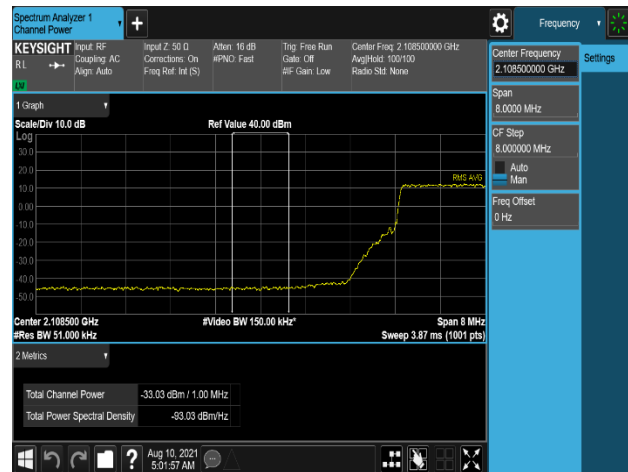
Plot 7-973. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+20M\_2C\_64QAM - High Channel, Port 0)



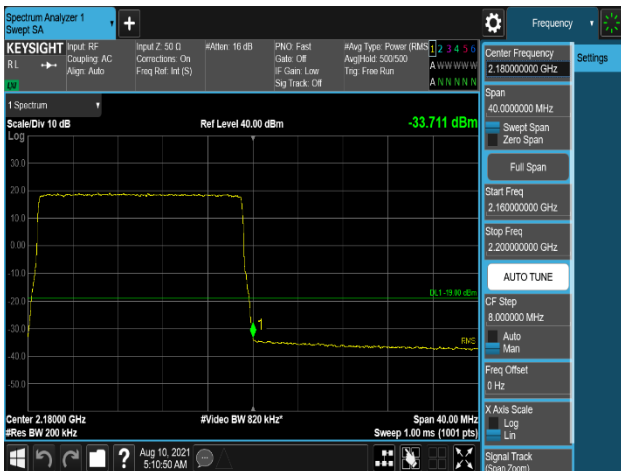
Plot 7-974. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+20M\_2C\_64QAM - High Channel, Port 3)



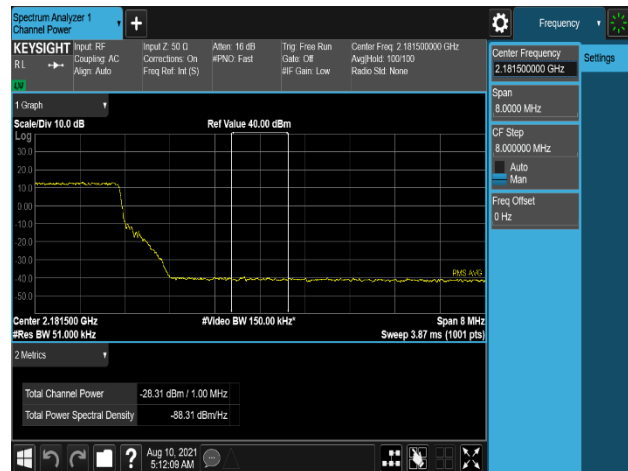
Plot 7-975. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_20M+20M\_2C\_QPSK - Low Channel, Port 1)



Plot 7-976. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_20M+20M\_2C\_QPSK - Low Channel, Port 2)



Plot 7-977. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_20M+20M\_2C\_QPSK - High Channel, Port 0)



Plot 7-978. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_20M+20M\_2C\_QPSK - High Channel, Port 0)



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Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	2109 to 2110	-34.99	-19.02
	0	2108 to 2109	-32.88	-19.02
	1	2109 to 2110	-35.40	-19.02
	1	2108 to 2109	-32.98	-19.02
	2	2109 to 2110	<b>-34.49</b>	-19.02
	2	2108 to 2109	<b>-32.65</b>	-19.02
	3	2109 to 2110	-34.96	-19.02
	3	2108 to 2109	-33.13	-19.02
High	0	2180 to 2181	-33.25	-19.02
	0	2181 to 2182	-27.78	-19.02
	1	2180 to 2181	<b>-32.71</b>	-19.02
	1	2181 to 2182	<b>-27.11</b>	-19.02
	2	2180 to 2181	-33.93	-19.02
	2	2181 to 2182	-27.77	-19.02
	3	2180 to 2181	-33.07	-19.02
	3	2181 to 2182	-27.28	-19.02

**Table 7-208. Band Edge Emission Summary Data (B66\_5M+5M+5M\_3C - Non-contiguous)**



Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	2109 to 2110	<b>-36.79</b>	-19.02
	0	2108 to 2109	-32.97	-19.02
	1	2109 to 2110	-37.63	-19.02
	1	2108 to 2109	-32.99	-19.02
	2	2109 to 2110	-37.17	-19.02
	2	2108 to 2109	<b>-32.92</b>	-19.02
	3	2109 to 2110	-38.08	-19.02
	3	2108 to 2109	-33.14	-19.02
High	0	2180 to 2181	-34.23	-19.02
	0	2181 to 2182	<b>-28.70</b>	-19.02
	1	2180 to 2181	-34.56	-19.02
	1	2181 to 2182	-29.36	-19.02
	2	2180 to 2181	-34.71	-19.02
	2	2181 to 2182	-29.14	-19.02
	3	2180 to 2181	<b>-33.80</b>	-19.02
	3	2181 to 2182	-29.13	-19.02

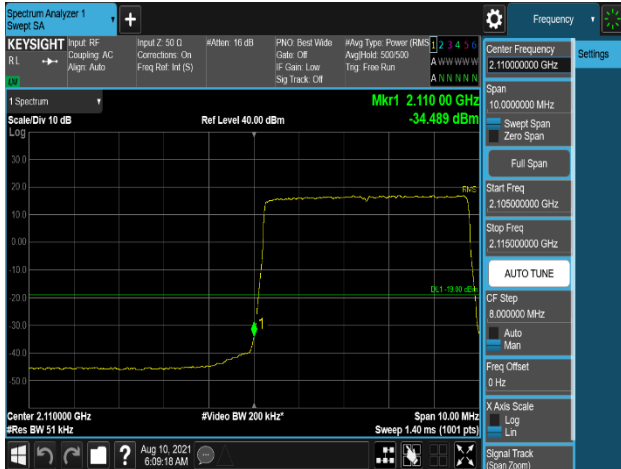
**Table 7-209. Band Edge Emission Summary Data (B66\_5M+5M+20M\_3C - Non-contiguous)**

FCC ID: A3LRF4437D-25C	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 279 of 420	

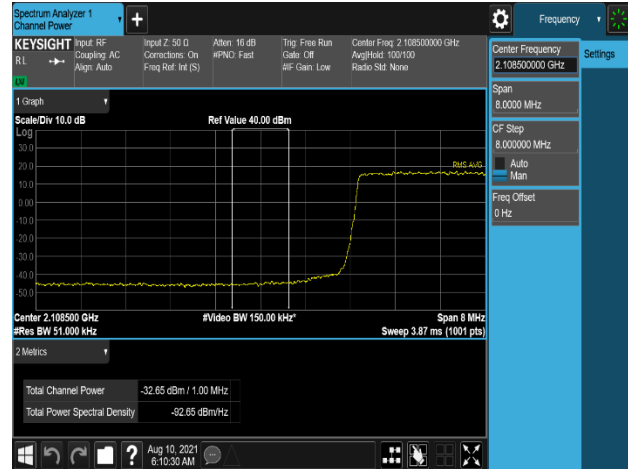
Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	2109 to 2110	<b>-38.96</b>	-19.02
	0	2108 to 2109	<b>-32.94</b>	-19.02
	1	2109 to 2110	-39.51	-19.02
	1	2108 to 2109	-33.14	-19.02
	2	2109 to 2110	-39.32	-19.02
	2	2108 to 2109	-33.05	-19.02
	3	2109 to 2110	-39.99	-19.02
	3	2108 to 2109	-33.25	-19.02
High	0	2180 to 2181	<b>-31.50</b>	-19.02
	0	2181 to 2182	-29.04	-19.02
	1	2180 to 2181	-34.97	-19.02
	1	2181 to 2182	-28.97	-19.02
	2	2180 to 2181	-34.24	-19.02
	2	2181 to 2182	-28.55	-19.02
	3	2180 to 2181	-34.33	-19.02
	3	2181 to 2182	<b>-28.50</b>	-19.02

**Table 7-210. Band Edge Emission Summary Data (B66\_5M+15M+20M\_3C - Non-contiguous)**

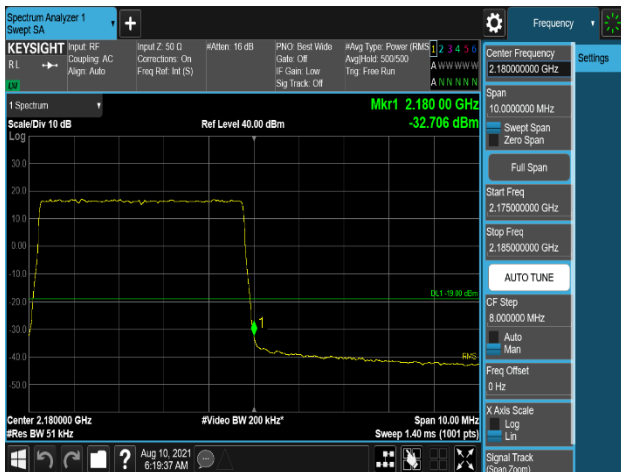
FCC ID: A3LRF4437D-25C	 <b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 280 of 420	



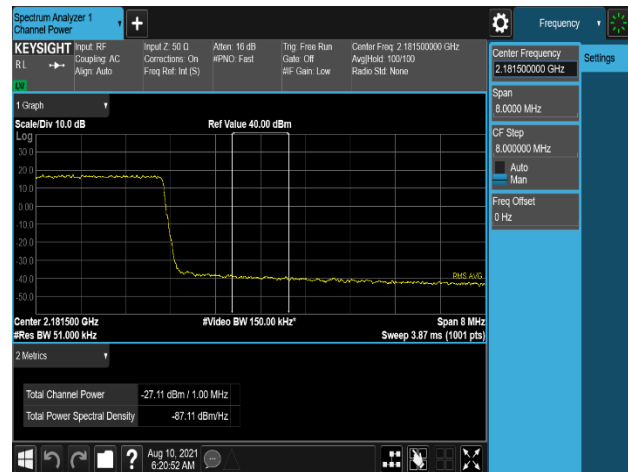
Plot 7-979. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_5M+5M+5M\_3C\_64QAM - Low Channel, Port 2)



Plot 7-980. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_5M+5M+5M\_3C\_64QAM - Low Channel, Port 2)



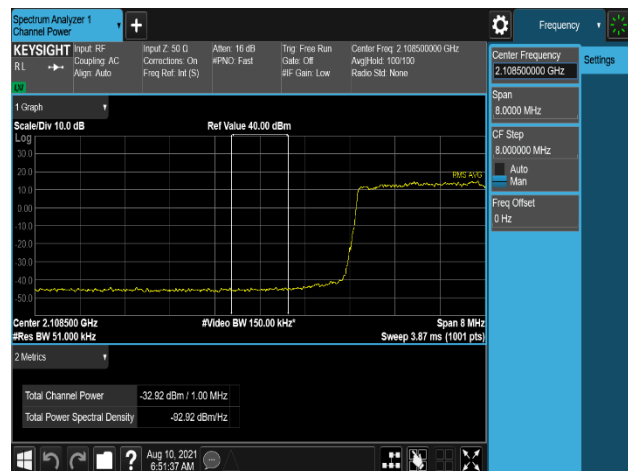
Plot 7-981. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+5M+5M\_3C\_64QAM - High Channel, Port 1)



Plot 7-982. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+5M+5M\_3C\_64QAM - High Channel, Port 1)

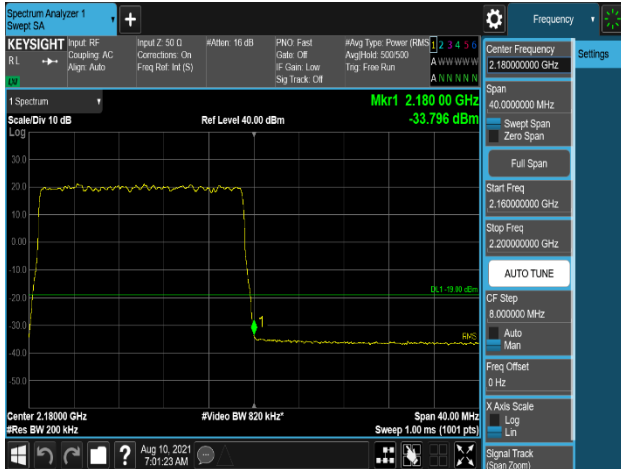


Plot 7-983. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_5M+5M+20M\_3C\_16QAM - Low Channel, Port 0)

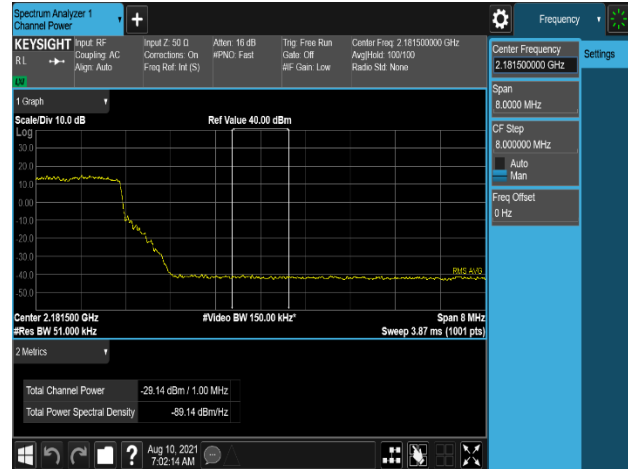


Plot 7-984. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_5M+5M+20M\_3C\_16QAM - Low Channel, Port 2)

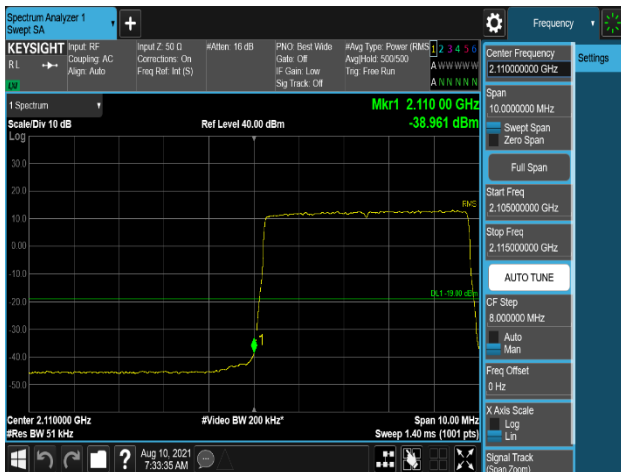
FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 281 of 420



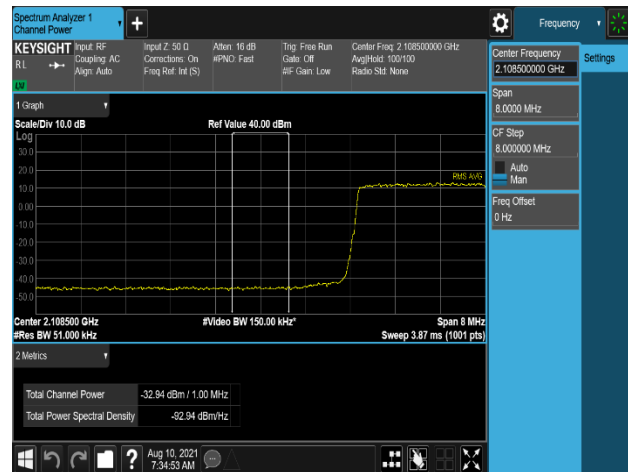
Plot 7-985. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+5M+20M\_3C\_16QAM - High Channel, Port 3)



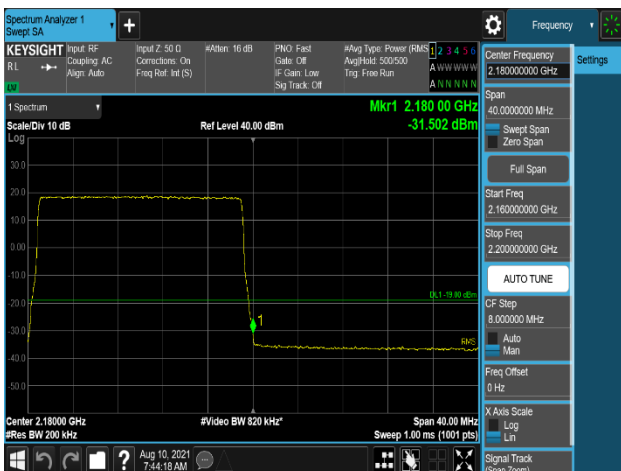
Plot 7-986. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+5M+20M\_3C\_16QAM - High Channel, Port 2)



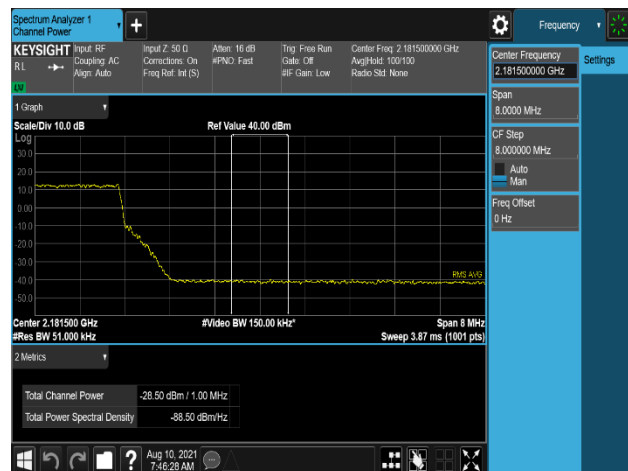
Plot 7-987. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_5M+15M+20M\_3C\_64QAM - Low Channel, Port 0)





Plot 7-988. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_5M+15M+20M\_3C\_64QAM - Low Channel, Port 0)



Plot 7-989. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+15M+20M\_3C\_64QAM - High Channel, Port 0)



Plot 7-990. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+15M+20M\_3C\_64QAM - High Channel, Port 3)



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Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	2109 to 2110	-35.73	-19.02
	0	2108 to 2109	-41.72	-19.02
	1	2109 to 2110	-36.10	-19.02
	1	2108 to 2109	-40.89	-19.02
	2	2109 to 2110	<b>-35.37</b>	-19.02
	2	2108 to 2109	<b>-39.20</b>	-19.02
	3	2109 to 2110	-36.52	-19.02
	3	2108 to 2109	-41.77	-19.02
High	0	2180 to 2181	-34.57	-19.02
	0	2181 to 2182	<b>-28.76</b>	-19.02
	1	2180 to 2181	-34.59	-19.02
	1	2181 to 2182	-30.03	-19.02
	2	2180 to 2181	<b>-34.42</b>	-19.02
	2	2181 to 2182	-29.38	-19.02
	3	2180 to 2181	-34.56	-19.02
	3	2181 to 2182	-29.81	-19.02

**Table 7-211. Band Edge Emission Summary Data (B66\_5M+5M+5M+5M\_4C - Non-contiguous)**



Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	2109 to 2110	-39.88	-19.02
	0	2108 to 2109	-42.98	-19.02
	1	2109 to 2110	-40.03	-19.02
	1	2108 to 2109	-41.33	-19.02
	2	2109 to 2110	<b>-39.76</b>	-19.02
	2	2108 to 2109	<b>-40.13</b>	-19.02
	3	2109 to 2110	-40.61	-19.02
	3	2108 to 2109	-41.98	-19.02
High	0	2180 to 2181	-35.78	-19.02
	0	2181 to 2182	-30.33	-19.02
	1	2180 to 2181	-36.15	-19.02
	1	2181 to 2182	-30.96	-19.02
	2	2180 to 2181	-35.99	-19.02
	2	2181 to 2182	<b>-29.99</b>	-19.02
	3	2180 to 2181	<b>-34.33</b>	-19.02
	3	2181 to 2182	-30.23	-19.02

**Table 7-212. Band Edge Emission Summary Data (B66\_5M+5M+5M+20M\_4C - Non-contiguous)**

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<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 283 of 420	

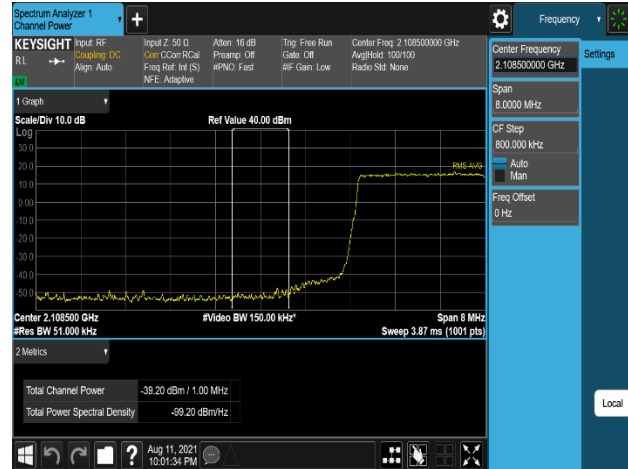
Channel	Port	Measured Range (MHz)	Max. Value (dBm)	Limit (dBm)
Low	0	2109 to 2110	<b>-38.65</b>	-19.02
	0	2108 to 2109	-43.08	-19.02
	1	2109 to 2110	-38.81	-19.02
	1	2108 to 2109	-41.56	-19.02
	2	2109 to 2110	-38.67	-19.02
	2	2108 to 2109	<b>-39.93</b>	-19.02
	3	2109 to 2110	-40.39	-19.02
	3	2108 to 2109	-42.46	-19.02
High	0	2180 to 2181	-35.92	-19.02
	0	2181 to 2182	-30.69	-19.02
	1	2180 to 2181	<b>-35.36</b>	-19.02
	1	2181 to 2182	-30.45	-19.02
	2	2180 to 2181	-35.65	-19.02
	2	2181 to 2182	<b>-29.87</b>	-19.02
	3	2180 to 2181	-35.68	-19.02
	3	2181 to 2182	-30.02	-19.02

**Table 7-213. Band Edge Emission Summary Data (B66\_5M+5M+10M+20M\_4C - Non-contiguous)**

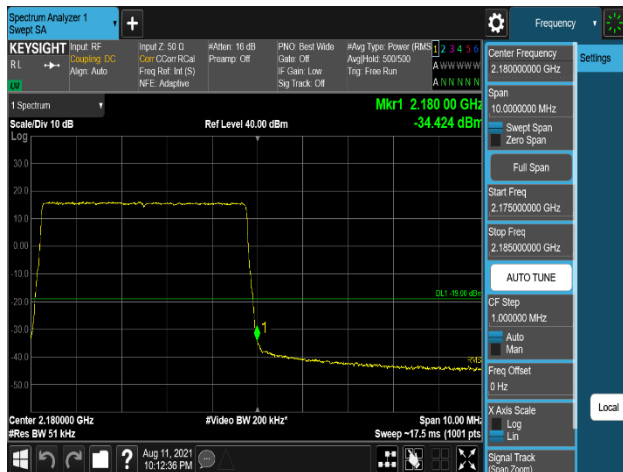
FCC ID: A3LRF4437D-25C	 <b>PCTEST</b> <small>ENGINEERING LABORATORY, INC.</small>	<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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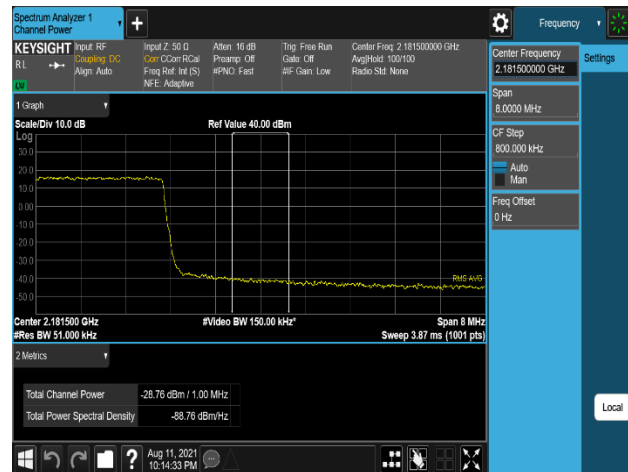
Plot 7-991. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_5M+5M+5M+5M\_4C\_64QAM - Low Channel, Port 2)



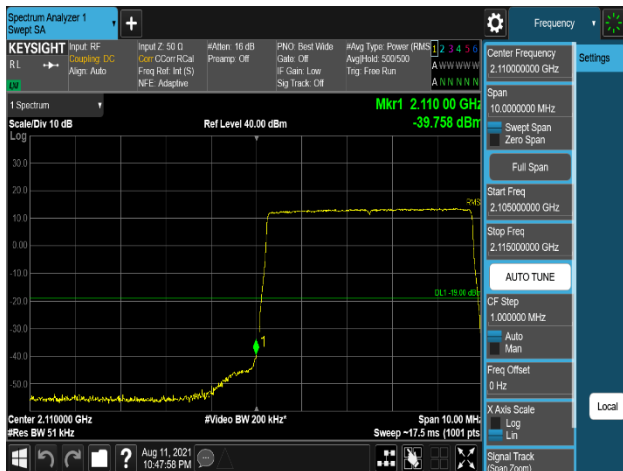
Plot 7-992. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_5M+5M+5M+5M\_4C\_64QAM - Low Channel, Port 2)



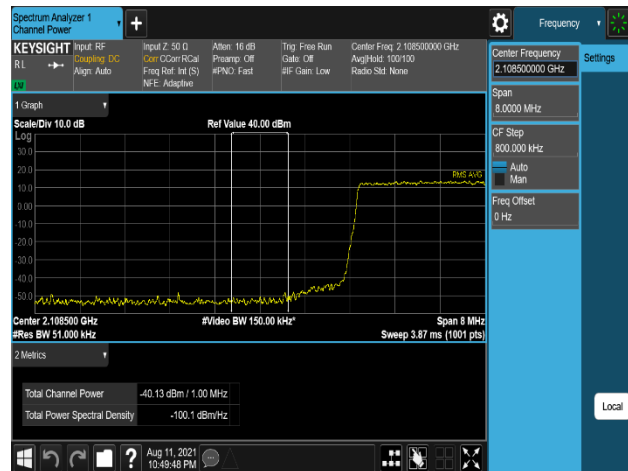
Plot 7-993. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+5M+5M+5M\_4C\_64QAM - High Channel, Port 2)



Plot 7-994. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+5M+5M+5M\_4C\_64QAM - High Channel, Port 0)



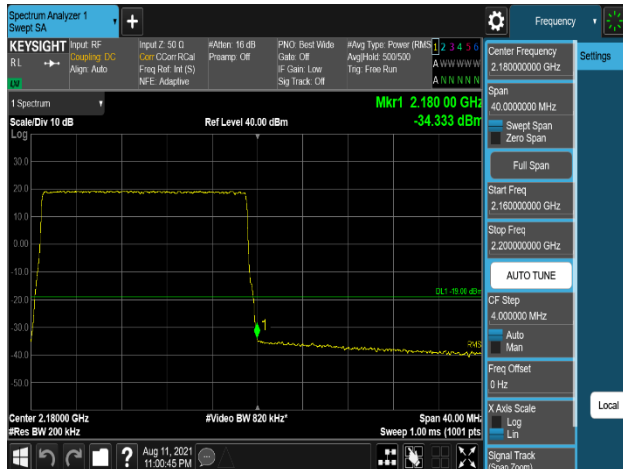
Plot 7-995. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_5M+5M+5M+20M\_4C\_QPSK - Low Channel, Port 2)



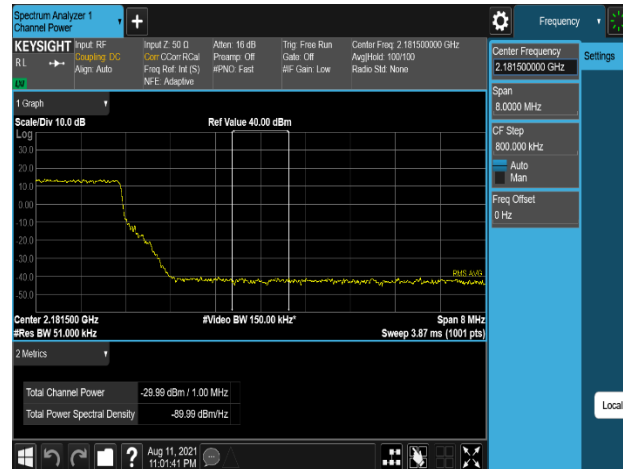
Plot 7-996. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_5M+5M+5M+20M\_4C\_QPSK - Low Channel, Port 2)

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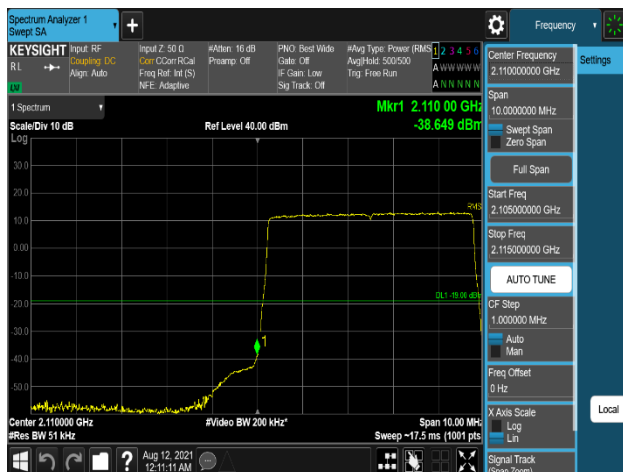




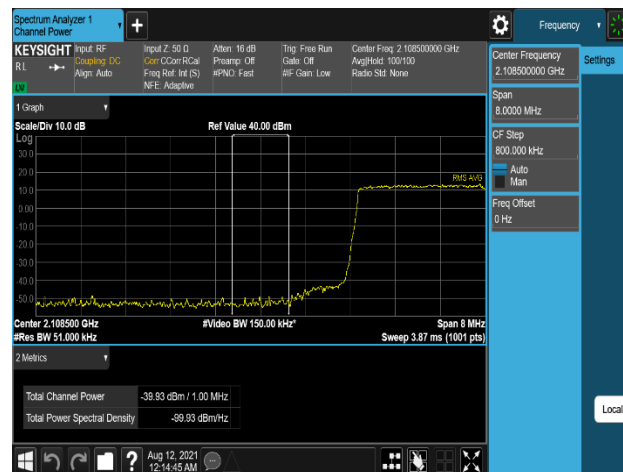
Plot 7-997. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+5M+5M+20M\_4C\_QPSK - High Channel, Port 3)



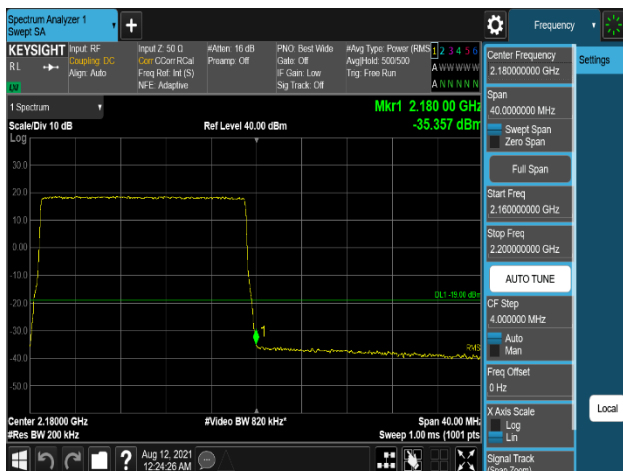
Plot 7-998. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+5M+5M+20M\_4C\_QPSK - High Channel, Port 2)



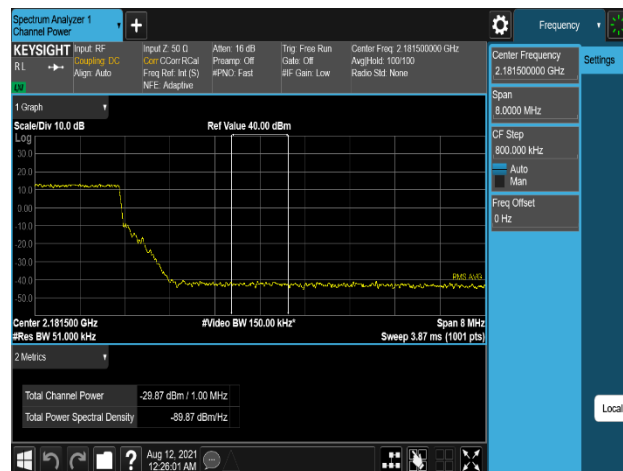
Plot 7-999. Band Edge Emission (2109MHz to 2110MHz) Plot (B66\_5M+5M+10M+20M\_4C\_64QAM - Low Channel, Port 0)



Plot 7-1000. Band Edge Emission (2108MHz to 2109MHz) Plot (B66\_5M+5M+10M+20M\_4C\_64QAM - Low Channel, Port 2)



Plot 7-1001. Band Edge Emission (2180MHz to 2181MHz) Plot (B66\_5M+5M+10M+20M\_4C\_64QAM - High Channel, Port 1)



Plot 7-1002. Band Edge Emission (2181MHz to 2182MHz) Plot (B66\_5M+5M+10M+20M\_4C\_64QAM - High Channel, Port 2)

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## 7.7 Spurious and Harmonic Emissions at Antenna Terminal

### § 2.1051, § 24.238, § 27.53(h)

#### 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 10<sup>th</sup> 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

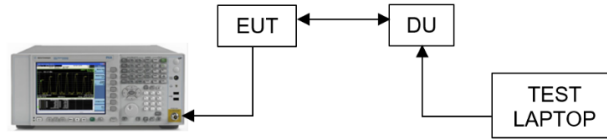
The minimum permissible attenuation level of any spurious emission is  $43 + \log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

The power of any emission outside of the authorized operating frequency range cannot exceed -13 dBm. The limit is adjusted to -19 dBm [-13 dBm -  $10 \log(4)$ ] per KDB 662911 D01 v02r01 - section E)3) because the EUT operate as a 4 port MIMO transmitter.

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**Test Setup**



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





**Figure 7-6. Test Instrument & Measurement Setup**

**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. All the measurement has been tested but test plots are referred from the highest of value of each of modulation of each antenna ports
3. To increase accuracy, the limit for the 9kHz to 150kHz frequency range was adjusted to -49dBm to correct for a spectrum analyzer RBW of 1kHz versus required RBW of 1MHz [i.e.:  $-49\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/1\text{kHz})$ ].  
The limit for the 150kHz to 30MHz frequency range was adjusted to -39dBm to correct for a spectrum analyzer RBW of 10kHz versus required RBW of 1MHz [i.e.:  $-39\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/10\text{kHz})$ ].  
The limit for the 30MHz to 1GHz frequency range was adjusted to -29dBm to correct for a spectrum analyzer RBW of 100kHz versus required RBW of 1MHz [i.e.:  $-29\text{dBm} = -19\text{dBm} - 10\log(1\text{MHz}/100\text{kHz})$ ].  
The required limit of -19dBm with a RBW of  $\geq 1\text{MHz}$  was used for all other frequency ranges.



FCC ID: A3LRF4437D-25C		<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 288 of 420	

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-60.41	-60.26	-60.17	-60.36	-49.02	-11.15
		150 kHz to 30 MHz	-53.34	-53.55	-53.09	-53.57	-39.02	-14.07
		30 MHz to 1 GHz	-54.11	-53.31	-53.75	-54.08	-29.02	-24.29
		1 GHz to 1.928 GHz	-29.96	-29.90	-27.18	-30.70	-19.02	-8.16
		1.992 GHz to 6 GHz	-28.22	-29.46	-29.46	-29.14	-19.02	-9.20
		6 GHz to 22 GHz	-26.17	-26.16	-26.39	-26.57	-19.02	-7.14
	1	9 kHz to 150 kHz	-60.83	-60.33	-60.53	-60.21	-49.02	-11.19
		150 kHz to 30 MHz	-52.67	-52.58	-52.87	-52.72	-39.02	-13.56
		30 MHz to 1 GHz	-51.19	-50.84	-51.17	-51.74	-29.02	-21.82
		1 GHz to 1.928 GHz	-29.52	-28.90	-28.67	-29.10	-19.02	-9.65
		1.992 GHz to 6 GHz	-27.08	-26.48	-26.80	-27.01	-19.02	-7.46
		6 GHz to 22 GHz	-26.33	-26.31	-25.82	-26.19	-19.02	-6.80
	2	9 kHz to 150 kHz	-62.01	-61.72	-62.21	-61.70	-49.02	-12.68
		150 kHz to 30 MHz	-53.84	-53.37	-53.54	-53.63	-39.02	-14.35
		30 MHz to 1 GHz	-50.34	-50.64	-51.52	-51.34	-29.02	-21.32
		1 GHz to 1.928 GHz	-27.91	-29.86	-28.11	-28.51	-19.02	-8.89
		1.992 GHz to 6 GHz	-24.56	-25.07	-25.51	-25.08	-19.02	-5.54
		6 GHz to 22 GHz	-26.26	-26.34	-26.47	-26.59	-19.02	-7.24
	3	9 kHz to 150 kHz	-61.47	-61.19	-61.35	-61.48	-49.02	-12.17
		150 kHz to 30 MHz	-53.21	-53.07	-53.49	-53.42	-39.02	-14.05
		30 MHz to 1 GHz	-51.79	-52.14	-51.62	-51.91	-29.02	-22.60
		1 GHz to 1.928 GHz	<b>-26.61</b>	-30.10	-28.09	-29.35	-19.02	<b>-7.59</b>
		1.992 GHz to 6 GHz	-26.86	-27.55	-26.40	-28.05	-19.02	-7.38
		6 GHz to 22 GHz	-26.13	-26.38	-25.68	-26.21	-19.02	-6.66
Middle	0	9 kHz to 150 kHz	-61.88	-62.00	-61.85	-61.81	-49.02	-12.79
		150 kHz to 30 MHz	-53.93	-53.64	-53.86	-52.91	-39.02	-13.89
		30 MHz to 1 GHz	-53.50	-53.27	-53.99	-54.27	-29.02	-24.25
		1 GHz to 1.928 GHz	-37.74	-36.71	-37.20	-37.77	-19.02	-17.69
		1.992 GHz to 6 GHz	-28.80	-28.56	-28.05	-28.63	-19.02	-9.03
		6 GHz to 22 GHz	-25.43	-25.21	<b>-24.89</b>	-25.14	-19.02	<b>-5.87</b>
	1	9 kHz to 150 kHz	<b>-60.10</b>	-60.58	-60.85	-60.63	-49.02	<b>-11.08</b>
		150 kHz to 30 MHz	-52.49	-53.22	-52.33	<b>-52.31</b>	-39.02	<b>-13.29</b>
		30 MHz to 1 GHz	-50.87	-51.02	-51.24	-51.23	-29.02	-21.85
		1 GHz to 1.928 GHz	-37.11	-39.23	-38.03	-39.00	-19.02	-18.09
		1.992 GHz to 6 GHz	-26.79	-26.16	-26.60	-27.37	-19.02	-7.14
		6 GHz to 22 GHz	-26.62	-26.56	-26.55	-26.51	-19.02	-7.49



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<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 289 of 420	

	2	9 kHz to 150 kHz	-61.66	-62.20	-61.93	-62.11	-49.02	-12.64
		150 kHz to 30 MHz	-53.34	-53.38	-53.40	-53.63	-39.02	-14.32
		30 MHz to 1 GHz	-50.50	-50.49	<b>-49.91</b>	-50.59	-29.02	<b>-20.89</b>
		1 GHz to 1.928 GHz	-37.82	-39.13	-37.85	-36.77	-19.02	-17.75
		1.992 GHz to 6 GHz	-24.62	-25.00	-25.02	-25.10	-19.02	-5.60
		6 GHz to 22 GHz	-26.35	-26.71	-26.83	-26.34	-19.02	-7.32
	3	9 kHz to 150 kHz	-61.31	-61.27	-61.92	-61.48	-49.02	-12.25
		150 kHz to 30 MHz	-53.26	-53.41	-53.58	-53.49	-39.02	-14.24
		30 MHz to 1 GHz	-52.19	-51.63	-51.93	-51.35	-29.02	-22.33
		1 GHz to 1.928 GHz	-37.81	-40.75	-38.30	-37.42	-19.02	-18.40
		1.992 GHz to 6 GHz	-27.51	-26.55	-27.15	-27.32	-19.02	-7.53
		6 GHz to 22 GHz	-26.29	-26.31	-26.09	-26.29	-19.02	-7.07
High	0	9 kHz to 150 kHz	-60.89	-60.80	-60.84	-60.83	-49.02	-11.78
		150 kHz to 30 MHz	-53.37	-52.99	-53.31	-53.01	-39.02	-13.97
		30 MHz to 1 GHz	-53.03	-54.49	-53.28	-52.97	-29.02	-23.95
		1 GHz to 1.928 GHz	-37.73	-38.14	-37.41	-36.95	-19.02	-17.93
		1.992 GHz to 6 GHz	-25.21	-24.87	-24.33	-25.81	-19.02	-5.31
		6 GHz to 22 GHz	-26.28	-25.82	-25.88	-26.01	-19.02	-6.80
	1	9 kHz to 150 kHz	-60.57	-60.62	-60.52	-60.37	-49.02	-11.35
		150 kHz to 30 MHz	-52.57	-52.86	-52.72	-52.88	-39.02	-13.55
		30 MHz to 1 GHz	-50.66	-50.69	-51.38	-51.25	-29.02	-21.64
		1 GHz to 1.928 GHz	-38.38	-36.99	-37.46	-37.25	-19.02	-17.97
		1.992 GHz to 6 GHz	-24.17	-25.65	-25.21	-26.02	-19.02	-5.15
		6 GHz to 22 GHz	-26.61	-26.11	-25.64	-26.11	-19.02	-6.62
	2	9 kHz to 150 kHz	-62.04	-62.16	-62.20	-61.67	-49.02	-12.65
		150 kHz to 30 MHz	-53.82	-53.69	-53.60	-53.81	-39.02	-14.58
		30 MHz to 1 GHz	-50.74	-51.23	-50.90	-50.85	-29.02	-21.72
		1 GHz to 1.928 GHz	-38.60	-37.20	-36.86	-36.57	-19.02	-17.55
		1.992 GHz to 6 GHz	-24.10	<b>-23.08</b>	-24.09	-24.44	-19.02	<b>-4.06</b>
		6 GHz to 22 GHz	-26.15	-26.23	-25.82	-26.18	-19.02	-6.80
	3	9 kHz to 150 kHz	-61.27	-61.43	-61.57	-61.51	-49.02	-12.25
		150 kHz to 30 MHz	-53.13	-53.28	-53.39	-53.06	-39.02	-14.04
		30 MHz to 1 GHz	-52.07	-51.79	-51.98	-51.66	-29.02	-22.64
		1 GHz to 1.928 GHz	-37.90	-38.19	-37.52	-37.56	-19.02	-18.50
		1.992 GHz to 6 GHz	-23.40	-24.22	-23.63	-25.99	-19.02	-4.38
		6 GHz to 22 GHz	-26.52	-25.43	-26.20	-26.18	-19.02	-6.41

**Table 7-214. Conducted Spurious Emission Summary Data (B2\_5M\_1C)**



FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 290 of 420

Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-61.66	-61.52	-61.21	-61.21	-49.02	-12.19
		150 kHz to 30 MHz	-53.00	-52.87	-52.73	-52.77	-39.02	-13.71
		30 MHz to 1 GHz	-53.77	-53.17	-53.43	-52.51	-29.02	-23.49
		1 GHz to 1.928 GHz	-30.97	-30.33	-28.46	-30.05	-19.02	-9.44
		1.992 GHz to 6 GHz	-28.14	-28.00	-29.37	-28.20	-19.02	-8.98
		6 GHz to 22 GHz	-26.07	-26.55	-26.11	<b>-25.12</b>	-19.02	<b>-6.10</b>
	1	9 kHz to 150 kHz	-61.04	-60.90	-60.75	-60.44	-49.02	-11.42
		150 kHz to 30 MHz	-52.32	<b>-52.15</b>	-52.33	-52.23	-39.02	<b>-13.13</b>
		30 MHz to 1 GHz	-50.59	-51.32	-51.52	-50.72	-29.02	-21.57
		1 GHz to 1.928 GHz	-30.88	-31.35	-27.18	-30.04	-19.02	-8.16
		1.992 GHz to 6 GHz	-26.86	-25.90	-26.88	-26.77	-19.02	-6.88
		6 GHz to 22 GHz	-26.42	-26.59	-26.69	-26.47	-19.02	-7.40
	2	9 kHz to 150 kHz	-61.85	-61.99	-62.35	-62.02	-49.02	-12.83
		150 kHz to 30 MHz	-53.49	-53.37	-53.29	-53.14	-39.02	-14.12
		30 MHz to 1 GHz	-50.27	-50.82	<b>-49.91</b>	-51.65	-29.02	<b>-20.89</b>
		1 GHz to 1.928 GHz	-31.77	-31.33	-27.33	-30.31	-19.02	-8.31
		1.992 GHz to 6 GHz	-24.53	-24.27	<b>-22.85</b>	-24.62	-19.02	<b>-3.83</b>
		6 GHz to 22 GHz	-26.27	-26.58	-26.49	-26.30	-19.02	-7.25
	3	9 kHz to 150 kHz	-61.52	-61.84	-61.72	-61.77	-49.02	-12.50
		150 kHz to 30 MHz	-53.20	-53.82	-53.31	-53.23	-39.02	-14.18
		30 MHz to 1 GHz	-51.92	-51.78	-51.84	-52.28	-29.02	-22.76
		1 GHz to 1.928 GHz	-29.76	-29.44	<b>-25.82</b>	-28.56	-19.02	<b>-6.80</b>
		1.992 GHz to 6 GHz	-26.54	-27.49	-27.20	-26.06	-19.02	-7.04
		6 GHz to 22 GHz	-26.31	-26.59	-25.56	-26.41	-19.02	-6.54
Middle	0	9 kHz to 150 kHz	-61.02	-60.85	-60.54	-61.26	-49.02	-11.52
		150 kHz to 30 MHz	-52.73	-52.48	-53.50	-52.89	-39.02	-13.46
		30 MHz to 1 GHz	-54.04	-54.27	-54.48	-54.07	-29.02	-25.02
		1 GHz to 1.928 GHz	-37.82	-37.14	-37.95	-37.77	-19.02	-18.12
		1.992 GHz to 6 GHz	-27.96	-28.16	-28.30	-29.17	-19.02	-8.94
		6 GHz to 22 GHz	-26.37	-25.88	-26.04	-26.24	-19.02	-6.86
	1	9 kHz to 150 kHz	-59.45	-60.09	-60.09	-60.63	-49.02	-10.43
		150 kHz to 30 MHz	-52.41	-52.44	-52.84	-52.67	-39.02	-13.39
		30 MHz to 1 GHz	-51.62	-50.85	-50.51	-51.39	-29.02	-21.49
		1 GHz to 1.928 GHz	-36.94	-37.99	-37.31	-37.42	-19.02	-17.92
		1.992 GHz to 6 GHz	-25.51	-26.52	-27.25	-26.88	-19.02	-6.49
		6 GHz to 22 GHz	-26.35	-26.09	-26.53	-26.12	-19.02	-7.07



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	2	9 kHz to 150 kHz	-62.09	-61.50	-61.11	-62.33	-49.02	-12.09
		150 kHz to 30 MHz	-53.39	-53.21	-53.57	-53.66	-39.02	-14.19
		30 MHz to 1 GHz	-51.02	-51.09	-50.88	-50.56	-29.02	-21.54
		1 GHz to 1.928 GHz	-36.25	-38.41	-36.33	-38.20	-19.02	-17.23
		1.992 GHz to 6 GHz	-24.98	-24.59	-25.29	-23.83	-19.02	-4.81
		6 GHz to 22 GHz	-26.30	-26.07	-26.17	-25.98	-19.02	-6.96
	3	9 kHz to 150 kHz	-61.26	-61.43	-61.23	-62.01	-49.02	-12.21
		150 kHz to 30 MHz	-53.56	-53.14	-53.29	-53.13	-39.02	-14.11
		30 MHz to 1 GHz	-51.90	-51.37	-51.80	-51.63	-29.02	-22.35
		1 GHz to 1.928 GHz	-38.33	-38.77	-37.01	-38.36	-19.02	-17.99
		1.992 GHz to 6 GHz	-27.41	-27.27	-27.10	-25.75	-19.02	-6.73
		6 GHz to 22 GHz	-26.46	-26.46	-26.35	-26.42	-19.02	-7.33
High	0	9 kHz to 150 kHz	-61.48	-60.40	-60.34	-60.56	-49.02	-11.32
		150 kHz to 30 MHz	-53.34	-53.38	-53.00	-52.92	-39.02	-13.90
		30 MHz to 1 GHz	-54.24	-54.39	-53.90	-54.11	-29.02	-24.88
		1 GHz to 1.928 GHz	-37.66	-37.74	-37.04	-37.90	-19.02	-18.02
		1.992 GHz to 6 GHz	-27.99	-28.35	-29.30	-28.67	-19.02	-8.97
		6 GHz to 22 GHz	-26.48	-26.59	-25.67	-26.30	-19.02	-6.65
	1	9 kHz to 150 kHz	-60.58	-59.67	<b>-59.36</b>	-59.49	-49.02	<b>-10.34</b>
		150 kHz to 30 MHz	-52.38	-52.34	-52.70	-52.80	-39.02	-13.32
		30 MHz to 1 GHz	-52.08	-50.91	-50.37	-51.22	-29.02	-21.35
		1 GHz to 1.928 GHz	-37.47	-37.42	-38.94	-37.12	-19.02	-18.10
		1.992 GHz to 6 GHz	-26.45	-27.21	-26.68	-26.43	-19.02	-7.41
		6 GHz to 22 GHz	-26.59	-26.56	-26.42	-26.71	-19.02	-7.40
	2	9 kHz to 150 kHz	-62.07	-61.36	-61.33	-61.29	-49.02	-12.27
		150 kHz to 30 MHz	-53.17	-53.75	-53.36	-53.68	-39.02	-14.15
		30 MHz to 1 GHz	-51.00	-51.09	-50.18	-51.48	-29.02	-21.16
		1 GHz to 1.928 GHz	-38.15	-37.06	-37.78	-37.47	-19.02	-18.04
		1.992 GHz to 6 GHz	-24.40	-25.20	-24.43	-23.40	-19.02	-4.38
		6 GHz to 22 GHz	-26.11	-26.21	-26.07	-25.96	-19.02	-6.94
	3	9 kHz to 150 kHz	-62.00	-60.81	-60.63	-60.84	-49.02	-11.61
		150 kHz to 30 MHz	-53.28	-53.53	-53.03	-53.15	-39.02	-14.01
		30 MHz to 1 GHz	-51.64	-51.64	-52.48	-52.79	-29.02	-22.62
		1 GHz to 1.928 GHz	-38.72	-38.71	-37.07	-38.03	-19.02	-18.05
		1.992 GHz to 6 GHz	-27.30	-27.49	-23.02	-27.39	-19.02	-4.00
		6 GHz to 22 GHz	-26.16	-25.76	-25.72	-26.36	-19.02	-6.70

**Table 7-215. Conducted Spurious Emission Summary Data (B2\_10M\_1C)**

FCC ID: A3LRF4437D-25C	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 292 of 420



Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-62.17	-62.22	-61.80	-61.88	-49.02	-12.78
		150 kHz to 30 MHz	-53.62	-53.15	-53.05	-53.01	-39.02	-13.99
		30 MHz to 1 GHz	-53.97	-53.29	-53.00	-52.68	-29.02	-23.66
		1 GHz to 1.928 GHz	<b>-29.47</b>	-31.04	-30.20	-31.52	-19.02	<b>-10.45</b>
		1.992 GHz to 6 GHz	-28.01	-28.43	-28.37	-28.71	-19.02	-8.99
		6 GHz to 22 GHz	-26.01	-26.11	-25.90	-25.84	-19.02	-6.82
	1	9 kHz to 150 kHz	-61.25	-61.09	-61.26	-61.37	-49.02	-12.07
		150 kHz to 30 MHz	-52.58	-52.27	-52.56	-52.60	-39.02	-13.25
		30 MHz to 1 GHz	-50.61	-50.76	-50.68	-50.93	-29.02	-21.59
		1 GHz to 1.928 GHz	-31.01	-32.56	-31.47	-31.68	-19.02	-11.99
		1.992 GHz to 6 GHz	-26.79	-26.01	-26.31	-25.80	-19.02	-6.78
		6 GHz to 22 GHz	<b>-24.62</b>	-26.16	-25.95	-26.02	-19.02	<b>-5.60</b>
	2	9 kHz to 150 kHz	-62.24	-62.57	-62.07	-62.26	-49.02	-13.05
		150 kHz to 30 MHz	-53.18	-52.96	-53.06	-53.53	-39.02	-13.94
		30 MHz to 1 GHz	-49.66	-50.14	-50.65	-49.17	-29.02	-20.15
		1 GHz to 1.928 GHz	-30.28	-30.99	-30.26	-30.30	-19.02	-11.24
		1.992 GHz to 6 GHz	-24.21	<b>-23.32</b>	-24.58	-24.38	-19.02	<b>-4.30</b>
		6 GHz to 22 GHz	-26.12	-26.29	-24.87	-25.60	-19.02	-5.85
	3	9 kHz to 150 kHz	-62.14	-62.11	-62.29	-62.16	-49.02	-13.09
		150 kHz to 30 MHz	-53.26	-52.96	-53.23	-53.24	-39.02	-13.94
		30 MHz to 1 GHz	-51.55	-50.94	-50.97	-51.66	-29.02	-21.92
		1 GHz to 1.928 GHz	-32.45	-32.49	-31.78	-31.62	-19.02	-12.60
		1.992 GHz to 6 GHz	-26.28	-26.18	-26.31	-27.11	-19.02	-7.16
		6 GHz to 22 GHz	-25.93	-25.89	-26.05	-25.94	-19.02	-6.87
Middle	0	9 kHz to 150 kHz	-61.46	-61.76	-62.02	-61.97	-49.02	-12.44
		150 kHz to 30 MHz	-53.17	-52.88	-53.08	-52.95	-39.02	-13.86
		30 MHz to 1 GHz	-53.24	-53.45	-52.97	-51.72	-29.02	-22.70
		1 GHz to 1.928 GHz	-37.40	-37.30	-36.76	-37.81	-19.02	-17.74
		1.992 GHz to 6 GHz	-28.05	-28.07	-28.33	-28.30	-19.02	-9.03
		6 GHz to 22 GHz	-25.82	-25.95	-25.85	-25.50	-19.02	-6.48
	1	9 kHz to 150 kHz	-61.26	-61.35	-61.04	-60.92	-49.02	-11.90
		150 kHz to 30 MHz	-52.27	-52.40	-52.30	-52.20	-39.02	-13.18
		30 MHz to 1 GHz	-50.89	-50.97	<b>-45.45</b>	-50.51	-29.02	<b>-16.43</b>
		1 GHz to 1.928 GHz	-37.36	-40.14	-37.00	-37.31	-19.02	-17.98
		1.992 GHz to 6 GHz	-26.35	-26.46	-26.18	-26.37	-19.02	-7.16
		6 GHz to 22 GHz	-25.88	-25.45	-25.99	-26.02	-19.02	-6.43

FCC ID: A3LRF4437D-25C		<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 293 of 420	





	2	9 kHz to 150 kHz	-62.22	-61.77	-62.38	-62.35	-49.02	-12.75
		150 kHz to 30 MHz	-53.36	-53.31	-53.08	-53.10	-39.02	-14.06
		30 MHz to 1 GHz	-50.67	-50.31	-50.77	-50.20	-29.02	-21.18
		1 GHz to 1.928 GHz	-38.97	-37.85	-36.71	-36.56	-19.02	-17.54
		1.992 GHz to 6 GHz	-24.06	-24.04	-24.06	-24.02	-19.02	-5.00
		6 GHz to 22 GHz	-26.13	-24.81	-26.15	-25.98	-19.02	-5.79
	3	9 kHz to 150 kHz	-61.75	-62.07	-62.16	-61.65	-49.02	-12.63
		150 kHz to 30 MHz	-53.30	-53.31	-53.53	-53.31	-39.02	-14.28
		30 MHz to 1 GHz	-51.31	-51.87	-51.25	-50.98	-29.02	-21.96
		1 GHz to 1.928 GHz	-38.66	-37.03	-37.80	-37.74	-19.02	-18.01
		1.992 GHz to 6 GHz	-26.62	-26.69	-26.17	-26.66	-19.02	-7.15
		6 GHz to 22 GHz	-25.94	-26.03	-25.25	-25.73	-19.02	-6.23
High	0	9 kHz to 150 kHz	-62.09	-62.04	-62.14	-61.38	-49.02	-12.36
		150 kHz to 30 MHz	-52.99	-52.72	-52.90	-53.13	-39.02	-13.70
		30 MHz to 1 GHz	-53.26	-53.15	-53.85	-53.15	-29.02	-24.13
		1 GHz to 1.928 GHz	-38.26	-37.20	-38.47	-38.21	-19.02	-18.18
		1.992 GHz to 6 GHz	-29.20	-28.21	-28.82	-28.64	-19.02	-9.19
		6 GHz to 22 GHz	-26.10	-26.18	-26.34	-26.42	-19.02	-7.08
	1	9 kHz to 150 kHz	<b>-60.76</b>	-61.37	-61.51	-61.01	-49.02	<b>-11.74</b>
		150 kHz to 30 MHz	-52.59	-52.48	-52.06	<b>-51.99</b>	-39.02	<b>-12.97</b>
		30 MHz to 1 GHz	-50.72	-51.33	-51.21	-50.40	-29.02	-21.38
		1 GHz to 1.928 GHz	-38.28	-38.01	-39.50	-38.17	-19.02	-18.99
		1.992 GHz to 6 GHz	-26.55	-26.51	-27.36	-26.11	-19.02	-7.09
		6 GHz to 22 GHz	-26.38	-26.58	-26.41	-26.31	-19.02	-7.29
	2	9 kHz to 150 kHz	-62.04	-62.34	-62.17	-62.11	-49.02	-13.02
		150 kHz to 30 MHz	-53.16	-53.18	-53.12	-52.92	-39.02	-13.90
		30 MHz to 1 GHz	-50.29	-50.01	-50.73	-51.10	-29.02	-20.99
		1 GHz to 1.928 GHz	-36.79	-38.06	-37.78	-37.93	-19.02	-17.77
		1.992 GHz to 6 GHz	-24.87	-24.08	-24.98	-24.73	-19.02	-5.06
		6 GHz to 22 GHz	-25.07	-24.93	-26.34	-25.75	-19.02	-5.91
	3	9 kHz to 150 kHz	-61.81	-61.76	-62.38	-61.97	-49.02	-12.74
		150 kHz to 30 MHz	-52.87	-53.31	-53.33	-53.03	-39.02	-13.85
		30 MHz to 1 GHz	-51.46	-51.99	-51.89	-51.85	-29.02	-22.44
		1 GHz to 1.928 GHz	-39.07	-37.92	-37.93	-38.56	-19.02	-18.90
		1.992 GHz to 6 GHz	-27.55	-26.72	-26.29	-27.16	-19.02	-7.27
		6 GHz to 22 GHz	-26.61	-26.28	-26.33	-26.34	-19.02	-7.26

**Table 7-216. Conducted Spurious Emission Summary Data (B2\_15M\_1C)**



FCC ID: A3LRF4437D-25C		<b>MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)	Page 294 of 420	

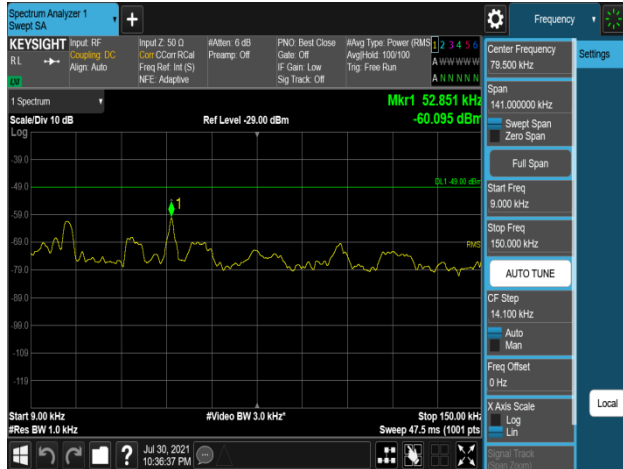
Channel	Port	Measurement Range	Level (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	9 kHz to 150 kHz	-61.16	-61.02	-61.22	-61.60	-49.02	-12.00
		150 kHz to 30 MHz	-52.51	-52.97	-52.56	-52.66	-39.02	-13.49
		30 MHz to 1 GHz	-53.33	-54.00	-53.68	-53.71	-29.02	-24.31
		1 GHz to 1.928 GHz	-33.05	-30.07	-32.31	-32.06	-19.02	-11.05
		1.992 GHz to 6 GHz	-28.85	-29.08	-28.32	-28.40	-19.02	-9.30
		6 GHz to 22 GHz	-26.38	-26.46	-26.32	-26.27	-19.02	-7.25
	1	9 kHz to 150 kHz	<b>-60.35</b>	-60.52	-60.58	-60.85	-49.02	<b>-11.33</b>
		150 kHz to 30 MHz	-51.62	-51.74	-51.83	-51.87	-39.02	-12.60
		30 MHz to 1 GHz	-50.80	-50.60	-51.32	-49.98	-29.02	-20.96
		1 GHz to 1.928 GHz	-33.70	-33.37	-32.96	-34.02	-19.02	-13.94
		1.992 GHz to 6 GHz	-27.10	-26.69	-26.88	-27.00	-19.02	-7.67
		6 GHz to 22 GHz	-26.25	-25.97	-26.07	-26.64	-19.02	-6.95
	2	9 kHz to 150 kHz	-61.29	-61.53	-61.26	-61.66	-49.02	-12.24
		150 kHz to 30 MHz	-52.30	-52.76	-52.37	-52.92	-39.02	-13.28
		30 MHz to 1 GHz	-51.28	-51.16	-50.56	-50.79	-29.02	-21.54
		1 GHz to 1.928 GHz	-33.71	-31.45	-33.51	<b>-29.90</b>	-19.02	<b>-10.88</b>
		1.992 GHz to 6 GHz	-25.06	-24.68	-24.43	-24.74	-19.02	-5.41
		6 GHz to 22 GHz	-25.87	-26.20	-26.01	-26.07	-19.02	-6.85
	3	9 kHz to 150 kHz	-61.43	-61.11	-61.48	-61.56	-49.02	-12.09
		150 kHz to 30 MHz	-52.40	-52.31	-52.61	-52.51	-39.02	-13.29
		30 MHz to 1 GHz	-51.07	-51.33	-51.39	-52.01	-29.02	-22.05
		1 GHz to 1.928 GHz	-33.25	-33.15	-32.53	-33.51	-19.02	-13.51
		1.992 GHz to 6 GHz	-27.73	-26.50	-26.83	-26.36	-19.02	-7.34
		6 GHz to 22 GHz	-26.45	-25.73	-26.31	-26.16	-19.02	-6.71
Middle	0	9 kHz to 150 kHz	-61.35	-61.61	-61.42	-61.15	-49.02	-12.13
		150 kHz to 30 MHz	-52.51	-52.27	-52.56	-52.92	-39.02	-13.25
		30 MHz to 1 GHz	-53.89	-53.81	-52.95	-53.82	-29.02	-23.93
		1 GHz to 1.928 GHz	-35.35	-36.64	-35.12	-34.96	-19.02	-15.94
		1.992 GHz to 6 GHz	-28.86	-28.31	-28.17	-28.18	-19.02	-9.15
		6 GHz to 22 GHz	-25.92	-26.29	-26.36	<b>-25.32</b>	-19.02	<b>-6.30</b>
	1	9 kHz to 150 kHz	-60.91	-60.61	-60.88	-61.17	-49.02	-11.59
		150 kHz to 30 MHz	-51.81	-51.98	-51.89	-52.03	-39.02	-12.79
		30 MHz to 1 GHz	-51.32	-51.44	-51.33	-50.61	-29.02	-21.59
		1 GHz to 1.928 GHz	-37.44	-35.67	-36.59	-35.67	-19.02	-16.65
		1.992 GHz to 6 GHz	-27.44	-26.43	-26.15	-26.72	-19.02	-7.13
		6 GHz to 22 GHz	-26.24	-25.58	-26.10	-26.60	-19.02	-6.56

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<b>Test Report S/N:</b> 8K21071202-R2.A3L	<b>Test Dates:</b> 07/19/2021-08/13/2021	<b>EUT Type:</b> RRU(RF4437d)		Page 295 of 420

	2	9 kHz to 150 kHz	-61.68	-61.50	-61.30	-61.76	-49.02	-12.28
		150 kHz to 30 MHz	-52.87	-52.78	-52.58	-52.43	-39.02	-13.41
		30 MHz to 1 GHz	-50.76	-50.62	-50.83	-50.47	-29.02	-21.45
		1 GHz to 1.928 GHz	-35.02	-35.06	-35.64	-35.14	-19.02	-16.00
		1.992 GHz to 6 GHz	-25.06	-25.45	-24.75	<b>-24.18</b>	-19.02	<b>-5.16</b>
		6 GHz to 22 GHz	-26.50	-26.51	-25.97	-26.32	-19.02	-6.95
	3	9 kHz to 150 kHz	-61.25	-61.83	-61.60	-61.68	-49.02	-12.23
		150 kHz to 30 MHz	-52.60	-52.95	-52.29	-52.48	-39.02	-13.27
		30 MHz to 1 GHz	-50.92	-52.34	-50.38	-51.26	-29.02	-21.36
		1 GHz to 1.928 GHz	-36.03	-36.19	-36.19	-36.06	-19.02	-17.01
		1.992 GHz to 6 GHz	-27.33	-26.94	-27.05	-26.88	-19.02	-7.86
		6 GHz to 22 GHz	-26.12	-25.65	-25.99	-26.26	-19.02	-6.63
High	0	9 kHz to 150 kHz	-61.35	-61.43	-61.42	-61.72	-49.02	-12.33
		150 kHz to 30 MHz	-52.72	-52.59	-52.35	-52.64	-39.02	-13.33
		30 MHz to 1 GHz	-53.32	-53.77	-53.65	-53.09	-29.02	-24.07
		1 GHz to 1.928 GHz	-37.07	-38.37	-37.87	-37.34	-19.02	-18.05
		1.992 GHz to 6 GHz	-27.96	-28.66	-28.96	-28.70	-19.02	-8.94
		6 GHz to 22 GHz	-25.86	-26.18	-25.70	-26.32	-19.02	-6.68
	1	9 kHz to 150 kHz	-60.79	-60.87	-60.99	-60.75	-49.02	-11.73
		150 kHz to 30 MHz	-51.78	-52.04	<b>-51.53</b>	-52.08	-39.02	<b>-12.51</b>
		30 MHz to 1 GHz	-50.78	-50.18	-50.55	-51.43	-29.02	-21.16
		1 GHz to 1.928 GHz	-37.83	-38.61	-38.00	-38.35	-19.02	-18.81
		1.992 GHz to 6 GHz	-26.28	-27.09	-26.53	-26.57	-19.02	-7.26
		6 GHz to 22 GHz	-26.23	-26.26	-26.73	-26.47	-19.02	-7.21
	2	9 kHz to 150 kHz	-61.91	-61.92	-61.99	-61.96	-49.02	-12.89
		150 kHz to 30 MHz	-52.75	-52.43	-52.89	-52.68	-39.02	-13.41
		30 MHz to 1 GHz	-50.49	-50.77	-50.34	<b>-49.82</b>	-29.02	<b>-20.80</b>
		1 GHz to 1.928 GHz	-37.60	-37.66	-36.56	-38.01	-19.02	-17.54
		1.992 GHz to 6 GHz	-24.57	-24.72	-25.04	-24.36	-19.02	-5.34
		6 GHz to 22 GHz	-26.42	-26.30	-26.40	-26.55	-19.02	-7.28
	3	9 kHz to 150 kHz	-61.67	-61.94	-61.99	-61.49	-49.02	-12.47
		150 kHz to 30 MHz	-52.49	-52.80	-52.70	-52.79	-39.02	-13.47
		30 MHz to 1 GHz	-51.85	-50.64	-51.52	-51.77	-29.02	-21.62
		1 GHz to 1.928 GHz	-38.80	-37.26	-37.35	-37.49	-19.02	-18.24
		1.992 GHz to 6 GHz	-27.01	-26.20	-24.77	-24.87	-19.02	-5.75
		6 GHz to 22 GHz	-25.80	-26.27	-26.42	-26.03	-19.02	-6.78

**Table 7-217. Conducted Spurious Emission Summary Data (B2\_20M\_1C)**

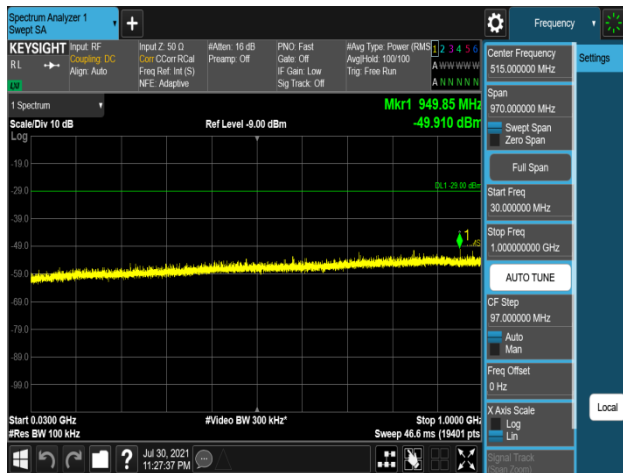
FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 296 of 420



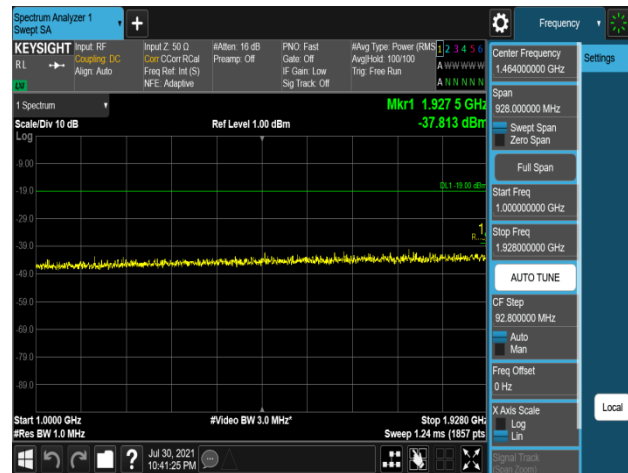
Plot 7-1003. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B2\_5M\_1C\_QPSK - Mid Channel, Port 1)



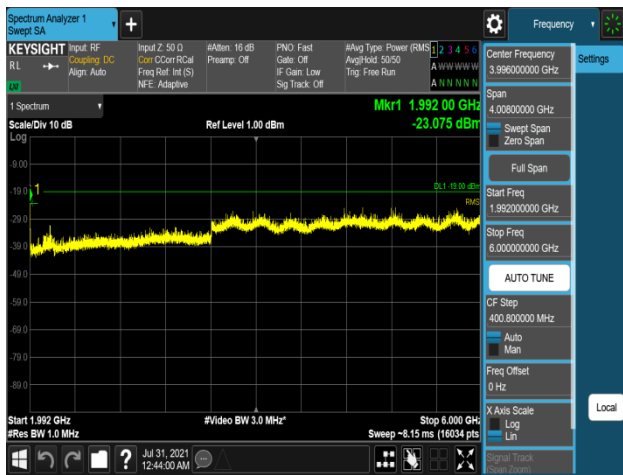
Plot 7-1004. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B2\_5M\_1C\_256QAM - Mid Channel, Port 1)



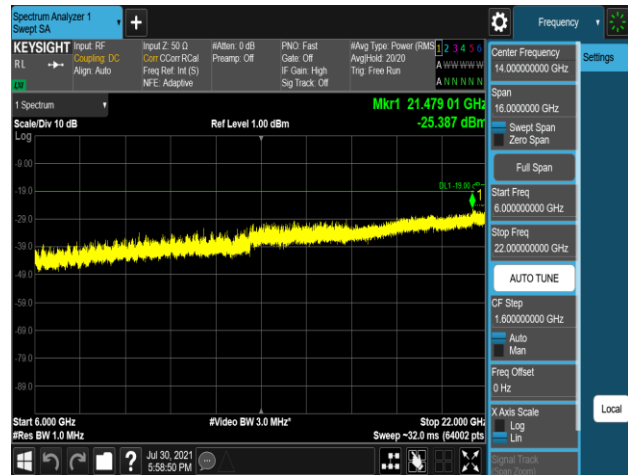
Plot 7-1005. Conducted Spurious Emission Plot  
30 MHz to 1 GHz  
(B2\_5M\_1C\_64QAM - Mid Channel, Port 2)



Plot 7-1006. Conducted Spurious Emission Plot  
1 GHz to 1.928 GHz  
(B2\_5M\_1C\_QPSK - Mid Channel, Port 3)



Plot 7-1007. Conducted Spurious Emission Plot  
1.992 GHz to 6 GHz  
(B2\_5M\_1C\_16QAM - High Channel, Port 2)

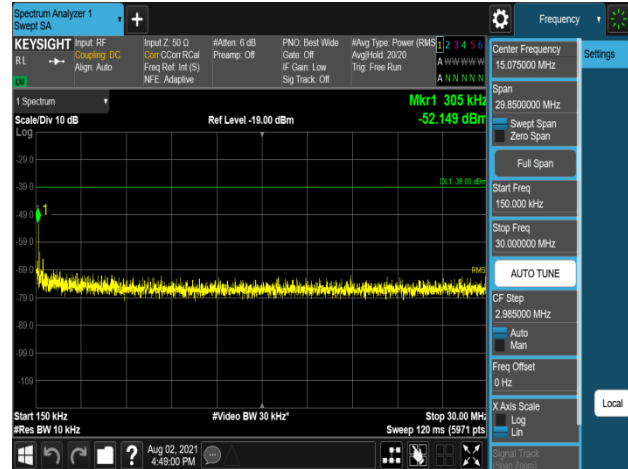


Plot 7-1008. Conducted Spurious Emission Plot  
6 GHz to 22 GHz  
(B2\_5M\_1C\_64QAM - Mid Channel, Port 2)

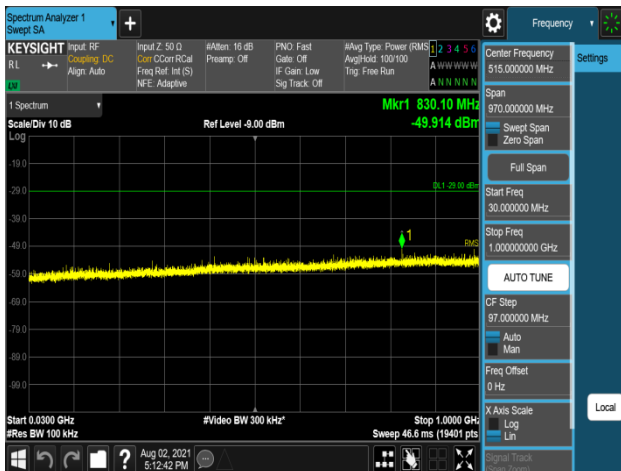
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 297 of 420



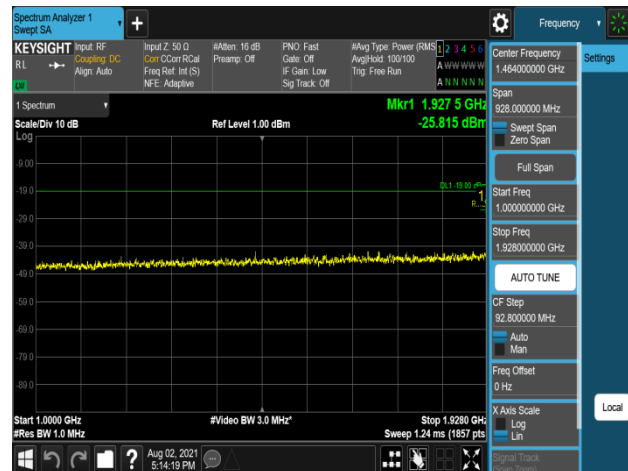
Plot 7-1009. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B2\_10M\_1C\_64QAM - High Channel, Port 1)



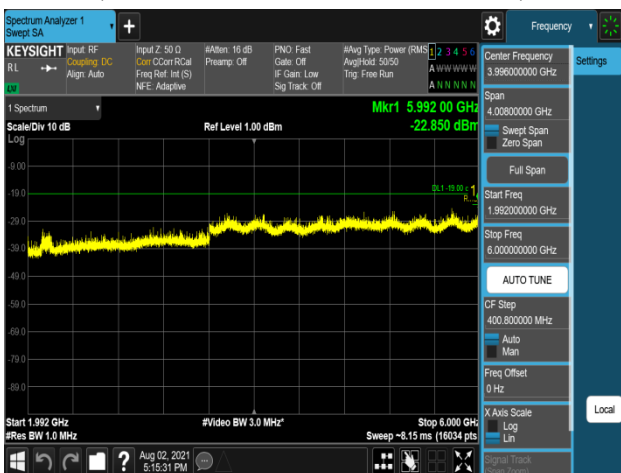
Plot 7-1010. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B2\_10M\_1C\_16QAM - Low Channel, Port 1)



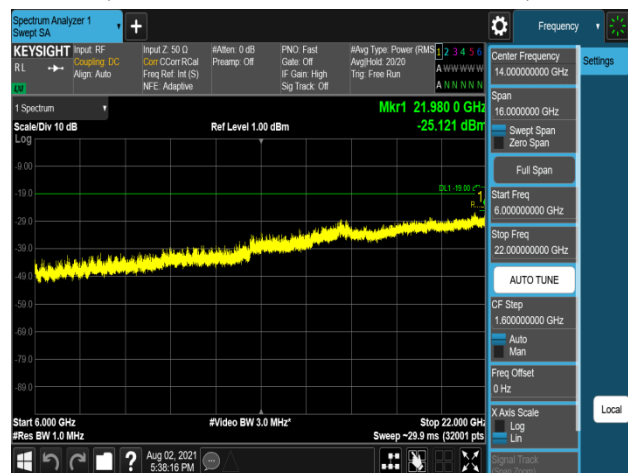
Plot 7-1011. Conducted Spurious Emission Plot  
30 MHz to 1 GHz  
(B2\_10M\_1C\_64QAM - Low Channel, Port 2)



Plot 7-1012. Conducted Spurious Emission Plot  
1 GHz to 1.928 GHz  
(B2\_10M\_1C\_64QAM - Low Channel, Port 3)

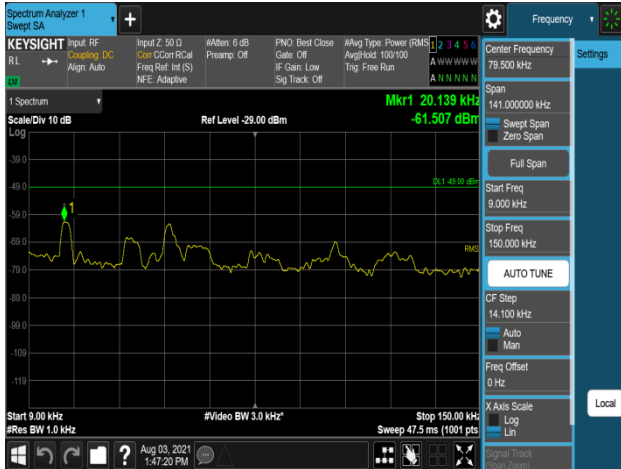


Plot 7-1013. Conducted Spurious Emission Plot  
1.992 GHz to 6 GHz  
(B2\_10M\_1C\_64QAM - Low Channel, Port 2)



Plot 7-1014. Conducted Spurious Emission Plot  
6 GHz to 22 GHz  
(B2\_10M\_1C\_256QAM - Low Channel, Port 0)

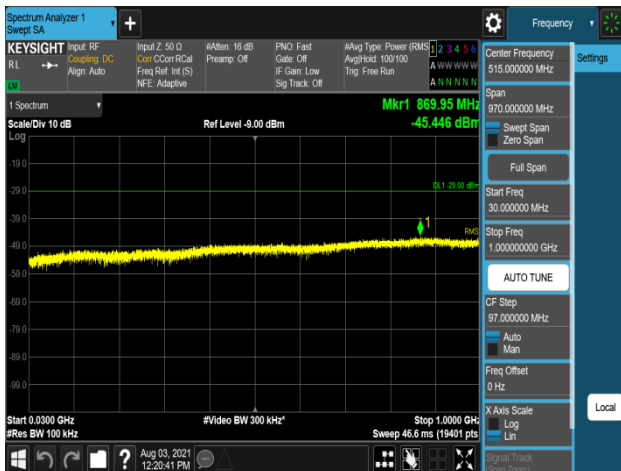
FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 298 of 420



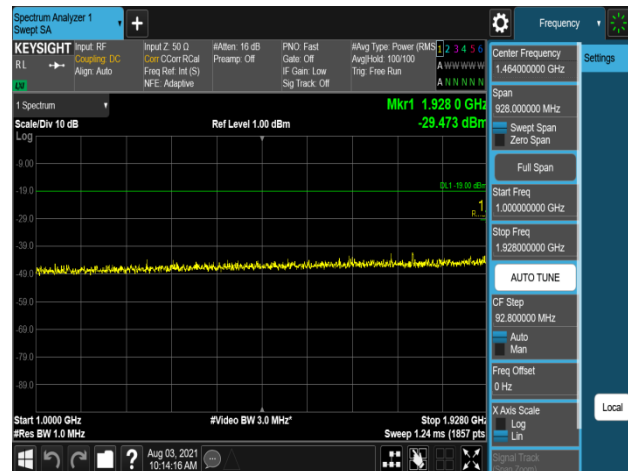
Plot 7-1015. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B2\_15M\_1C\_64QAM - High Channel, Port 1)



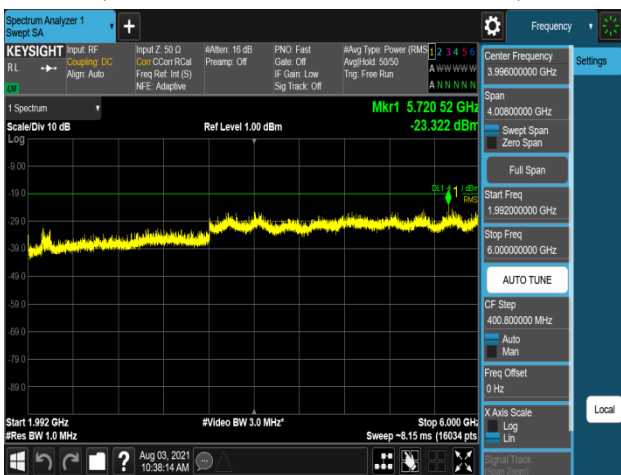
Plot 7-1016. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B2\_15M\_1C\_16QAM - Low Channel, Port 1)



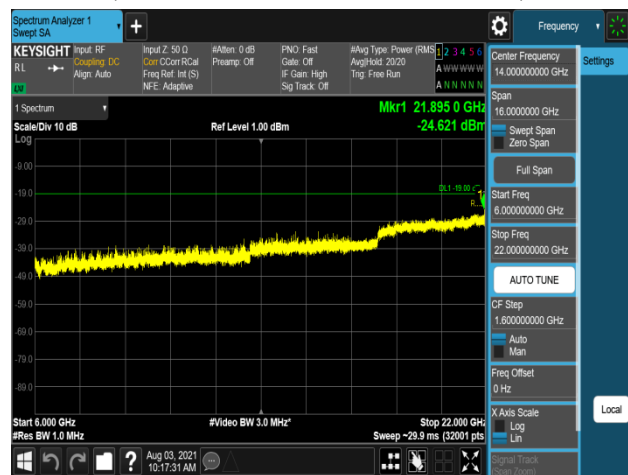
Plot 7-1017. Conducted Spurious Emission Plot  
30 MHz to 1 GHz  
(B2\_15M\_1C\_64QAM - Mid Channel, Port 1)



Plot 7-1018. Conducted Spurious Emission Plot  
1 GHz to 1.928 GHz  
(B2\_15M\_1C\_QPSK - Low Channel, Port 0)



Plot 7-1019. Conducted Spurious Emission Plot  
1.992 GHz to 6 GHz  
(B2\_15M\_1C\_16QAM - Low Channel, Port 2)



Plot 7-1020. Conducted Spurious Emission Plot  
6 GHz to 22 GHz  
(B2\_15M\_1C\_QPSK - Low Channel, Port 1)

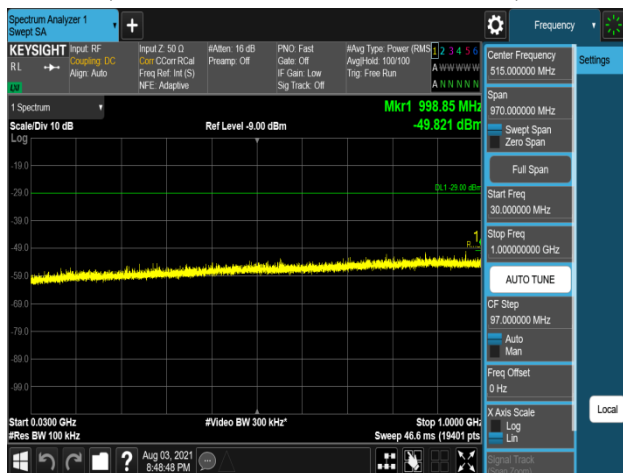
FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 299 of 420



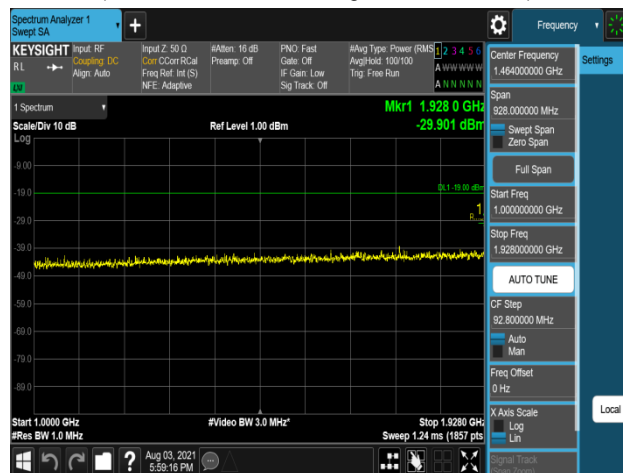
Plot 7-1021. Conducted Spurious Emission Plot  
9 kHz to 150 kHz  
(B2\_20M\_1C\_QPSK - Low Channel, Port 1)



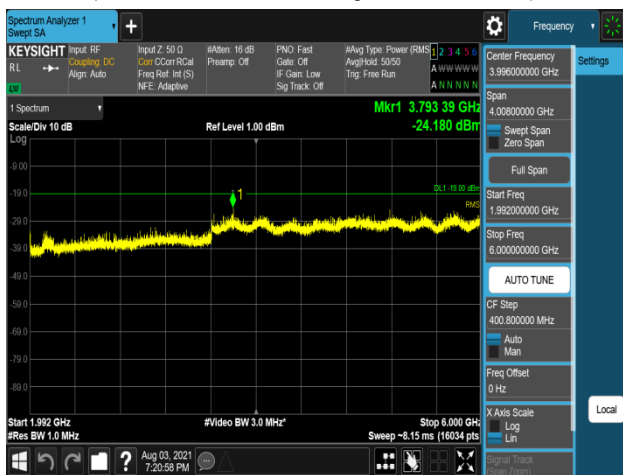
Plot 7-1022. Conducted Spurious Emission Plot  
150 kHz to 30 MHz  
(B2\_20M\_1C\_64QAM - High Channel, Port 1)



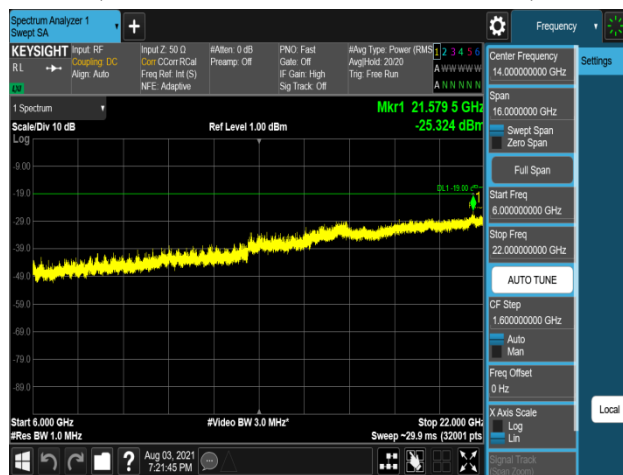
Plot 7-1023. Conducted Spurious Emission Plot  
30 MHz to 1 GHz  
(B2\_20M\_1C\_256QAM - High Channel, Port 2)



Plot 7-1024. Conducted Spurious Emission Plot  
1 GHz to 1.928 GHz  
(B2\_20M\_1C\_256QAM - Low Channel, Port 2)





Plot 7-1025. Conducted Spurious Emission Plot  
1.992 GHz to 6 GHz  
(B2\_20M\_1C\_256QAM - Mid Channel, Port 2)



Plot 7-1026. Conducted Spurious Emission Plot  
6 GHz to 22 GHz  
(B2\_20M\_1C\_256QAM - Mid Channel, Port 0)

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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	-61.31	-60.94	-61.38	-61.56	-49.02	-11.92
		150 kHz to 30 MHz	-52.71	-52.41	-52.73	-52.14	-39.02	-13.12
		30 MHz to 1 GHz	-53.54	-53.57	-52.17	-53.92	-29.02	-23.15
		1 GHz to 1.928 GHz	-29.39	-30.14	-31.28	<b>-28.11</b>	-19.02	<b>-9.09</b>
		1.992 GHz to 6 GHz	-28.00	-28.28	-27.22	-28.15	-19.02	-8.20
		6 GHz to 22 GHz	-26.35	-26.21	-26.02	-26.11	-19.02	-7.00
	1	9 kHz to 150 kHz	-60.74	-60.72	-60.70	-60.64	-49.02	-11.62
		150 kHz to 30 MHz	-51.93	-51.79	-51.68	-51.50	-39.02	-12.48
		30 MHz to 1 GHz	-51.32	<b>-49.71</b>	-50.90	-51.56	-29.02	<b>-20.69</b>
		1 GHz to 1.928 GHz	-30.93	-30.45	-32.63	-30.65	-19.02	-11.43
		1.992 GHz to 6 GHz	-26.23	-26.43	-26.50	-26.06	-19.02	-7.04
		6 GHz to 22 GHz	-26.17	-25.52	-25.97	-25.66	-19.02	-6.50
	2	9 kHz to 150 kHz	-61.18	-61.56	-61.51	-61.52	-49.02	-12.16
		150 kHz to 30 MHz	-52.55	-52.57	-52.73	-53.30	-39.02	-13.53
		30 MHz to 1 GHz	-50.45	-49.79	-50.85	-50.35	-29.02	-20.77
		1 GHz to 1.928 GHz	-31.73	-29.62	-30.10	-30.12	-19.02	-10.60
		1.992 GHz to 6 GHz	-25.05	-24.11	-24.51	-24.47	-19.02	-5.09
		6 GHz to 22 GHz	-26.11	-25.86	-26.23	-25.65	-19.02	-6.63
	3	9 kHz to 150 kHz	-61.22	-61.76	-61.65	-61.64	-49.02	-12.20
		150 kHz to 30 MHz	-51.92	-52.68	-52.99	-52.35	-39.02	-12.90
		30 MHz to 1 GHz	-50.21	-51.18	-51.71	-51.13	-29.02	-21.19
		1 GHz to 1.928 GHz	-29.05	-30.17	-28.90	-30.15	-19.02	-9.88
		1.992 GHz to 6 GHz	-27.20	-25.98	-27.17	-26.35	-19.02	-6.96
		6 GHz to 22 GHz	-26.23	-26.17	-25.63	-26.35	-19.02	-6.61
Middle	0	9 kHz to 150 kHz	-61.13	-61.65	-61.78	-61.41	-49.02	-12.11
		150 kHz to 30 MHz	-53.37	-53.07	-52.84	-53.11	-39.02	-13.82
		30 MHz to 1 GHz	-53.15	-53.41	-53.42	-52.20	-29.02	-23.18
		1 GHz to 1.928 GHz	-37.51	-37.52	-36.55	-36.40	-19.02	-17.38
		1.992 GHz to 6 GHz	-28.13	-27.86	-28.37	-28.75	-19.02	-8.84
		6 GHz to 22 GHz	-25.73	-26.18	-25.85	-26.36	-19.02	-6.71
	1	9 kHz to 150 kHz	-60.60	-61.05	-60.64	-60.98	-49.02	-11.58
		150 kHz to 30 MHz	-51.86	-51.91	-52.14	-51.55	-39.02	-12.53
		30 MHz to 1 GHz	-50.90	-50.58	-51.66	-50.74	-29.02	-21.56
		1 GHz to 1.928 GHz	-35.90	-36.85	-37.73	-37.52	-19.02	-16.88
		1.992 GHz to 6 GHz	-26.81	-26.60	-26.05	-26.01	-19.02	-6.99
		6 GHz to 22 GHz	-25.79	-25.65	-25.54	-26.10	-19.02	-6.52

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	2	9 kHz to 150 kHz	-61.60	-62.08	-61.88	-61.76	-49.02	-12.58
		150 kHz to 30 MHz	-52.71	-52.86	-52.97	-52.71	-39.02	-13.69
		30 MHz to 1 GHz	-50.25	-50.52	-50.38	-50.02	-29.02	-21.00
		1 GHz to 1.928 GHz	-37.32	-36.41	-36.10	-38.44	-19.02	-17.08
		1.992 GHz to 6 GHz	-24.19	-24.65	-23.88	<b>-23.17</b>	-19.02	<b>-4.15</b>
		6 GHz to 22 GHz	-25.80	-25.80	-26.17	-25.67	-19.02	-6.65
	3	9 kHz to 150 kHz	-61.32	-62.07	-61.24	-61.32	-49.02	-12.22
		150 kHz to 30 MHz	-52.97	-53.16	-52.87	-52.70	-39.02	-13.68
		30 MHz to 1 GHz	-51.30	-51.48	-50.74	-50.96	-29.02	-21.72
		1 GHz to 1.928 GHz	-37.73	-37.70	-37.40	-37.00	-19.02	-17.98
		1.992 GHz to 6 GHz	-27.12	-26.19	-26.08	-27.35	-19.02	-7.06
		6 GHz to 22 GHz	-26.07	-25.27	-26.29	<b>-24.29</b>	-19.02	<b>-5.27</b>
High	0	9 kHz to 150 kHz	-61.13	-61.10	-61.63	-61.46	-49.02	-12.08
		150 kHz to 30 MHz	-52.77	-52.50	-52.49	-52.45	-39.02	-13.43
		30 MHz to 1 GHz	-53.21	-53.53	-53.74	-53.51	-29.02	-24.19
		1 GHz to 1.928 GHz	-34.56	-34.43	-33.53	-34.62	-19.02	-14.51
		1.992 GHz to 6 GHz	-26.24	-27.20	-28.22	-26.83	-19.02	-7.22
		6 GHz to 22 GHz	-26.54	-26.20	-25.67	-25.04	-19.02	-6.02
	1	9 kHz to 150 kHz	-60.50	<b>-60.36</b>	-60.79	-60.58	-49.02	<b>-11.34</b>
		150 kHz to 30 MHz	<b>-51.46</b>	-52.31	-52.22	-51.77	-39.02	<b>-12.44</b>
		30 MHz to 1 GHz	-51.70	-51.08	-51.22	-50.66	-29.02	-21.64
		1 GHz to 1.928 GHz	-33.67	-35.81	-36.20	-35.90	-19.02	-14.65
		1.992 GHz to 6 GHz	-26.04	-25.50	-26.63	-26.47	-19.02	-6.48
		6 GHz to 22 GHz	-25.85	-26.01	-26.18	-26.33	-19.02	-6.83
	2	9 kHz to 150 kHz	-61.54	-61.59	-62.00	-61.84	-49.02	-12.52
		150 kHz to 30 MHz	-52.93	-52.62	-53.36	-53.04	-39.02	-13.60
		30 MHz to 1 GHz	-50.13	-50.29	-50.24	-50.48	-29.02	-21.11
		1 GHz to 1.928 GHz	-35.24	-35.61	-35.24	-33.70	-19.02	-14.68
		1.992 GHz to 6 GHz	-24.39	-23.61	-24.66	-24.76	-19.02	-4.59
		6 GHz to 22 GHz	-26.07	-25.16	-26.26	-25.69	-19.02	-6.14
	3	9 kHz to 150 kHz	-62.03	-61.49	-61.55	-61.77	-49.02	-12.47
		150 kHz to 30 MHz	-52.91	-53.10	-52.75	-52.79	-39.02	-13.73
		30 MHz to 1 GHz	-52.27	-51.63	-51.52	-50.66	-29.02	-21.64
		1 GHz to 1.928 GHz	-34.25	-33.51	-34.19	-34.37	-19.02	-14.49
		1.992 GHz to 6 GHz	-25.60	-25.95	-26.16	-25.61	-19.02	-6.58
		6 GHz to 22 GHz	-25.64	-25.27	-25.90	-26.32	-19.02	-6.25

**Table 7-218. Conducted Spurious Emission Summary Data (B2\_5M+5M\_2C)**

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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	-61.97	-61.69	-61.27	-61.58	-49.02	-12.25
		150 kHz to 30 MHz	-52.97	-53.01	-52.70	-53.02	-39.02	-13.68
		30 MHz to 1 GHz	-53.99	-53.28	-53.50	-53.65	-29.02	-24.26
		1 GHz to 1.928 GHz	-31.08	-31.93	-31.62	-31.42	-19.02	-12.06
		1.992 GHz to 6 GHz	-29.02	-28.79	-28.62	-28.77	-19.02	-9.60
		6 GHz to 22 GHz	-26.44	-26.26	-25.75	-26.07	-19.02	-6.73
	1	9 kHz to 150 kHz	-60.75	-60.70	-61.13	-60.93	-49.02	-11.68
		150 kHz to 30 MHz	-52.35	-52.46	-52.35	-52.23	-39.02	-13.21
		30 MHz to 1 GHz	-51.28	-50.72	-50.42	-51.18	-29.02	-21.40
		1 GHz to 1.928 GHz	<b>-27.06</b>	-32.30	-32.62	-32.73	-19.02	<b>-8.04</b>
		1.992 GHz to 6 GHz	-25.99	-26.92	-27.33	-25.56	-19.02	-6.54
		6 GHz to 22 GHz	-26.31	-25.92	-25.86	-26.56	-19.02	-6.84
	2	9 kHz to 150 kHz	-61.75	-61.87	-61.76	-61.69	-49.02	-12.67
		150 kHz to 30 MHz	-53.06	-52.94	-52.88	-53.18	-39.02	-13.86
		30 MHz to 1 GHz	-50.32	-51.10	-49.90	-50.30	-29.02	-20.88
		1 GHz to 1.928 GHz	-33.86	-31.31	-31.82	-31.33	-19.02	-12.29
		1.992 GHz to 6 GHz	-25.28	-24.92	-25.14	-25.49	-19.02	-5.90
		6 GHz to 22 GHz	-26.51	-26.18	-25.77	-26.23	-19.02	-6.75
	3	9 kHz to 150 kHz	-61.96	-61.88	-61.59	-61.80	-49.02	-12.57
		150 kHz to 30 MHz	-53.22	-52.79	-53.01	-52.66	-39.02	-13.64
		30 MHz to 1 GHz	-51.75	-51.66	-51.21	-51.99	-29.02	-22.19
		1 GHz to 1.928 GHz	-32.87	-32.61	-30.81	-32.52	-19.02	-11.79
		1.992 GHz to 6 GHz	-26.51	-27.54	-26.98	-27.36	-19.02	-7.49
		6 GHz to 22 GHz	-26.41	-26.09	-25.67	-25.91	-19.02	-6.65
Middle	0	9 kHz to 150 kHz	-61.61	-61.54	-61.74	-61.21	-49.02	-12.19
		150 kHz to 30 MHz	-52.05	-53.21	-53.12	-52.82	-39.02	-13.03
		30 MHz to 1 GHz	-53.15	-53.48	-53.40	-54.12	-29.02	-24.13
		1 GHz to 1.928 GHz	-32.80	-33.58	-32.79	-32.52	-19.02	-13.50
		1.992 GHz to 6 GHz	-28.81	-28.25	-28.22	-29.01	-19.02	-9.20
		6 GHz to 22 GHz	-26.24	-26.11	-26.63	-26.51	-19.02	-7.09
	1	9 kHz to 150 kHz	-61.08	-61.35	-60.81	<b>-60.45</b>	-49.02	<b>-11.43</b>
		150 kHz to 30 MHz	-52.06	-52.10	<b>-51.79</b>	-52.40	-39.02	<b>-12.77</b>
		30 MHz to 1 GHz	-51.22	-51.03	-51.66	-51.46	-29.02	-22.01
		1 GHz to 1.928 GHz	-33.97	-34.44	-32.72	-32.74	-19.02	-13.70
		1.992 GHz to 6 GHz	-26.02	-27.40	-26.74	-27.17	-19.02	-7.00
		6 GHz to 22 GHz	-26.47	-26.29	-26.47	<b>-25.59</b>	-19.02	<b>-6.57</b>

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