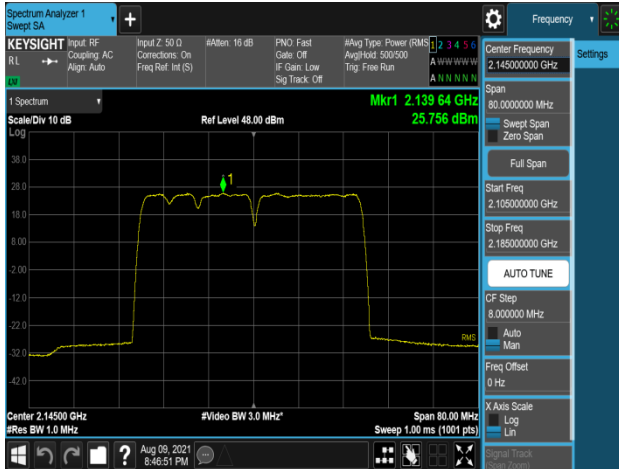
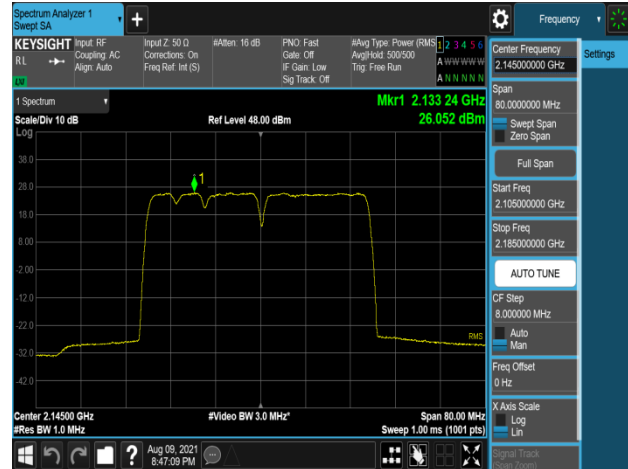
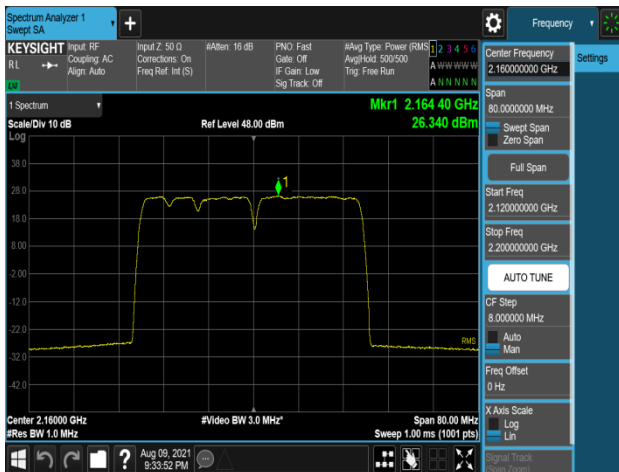




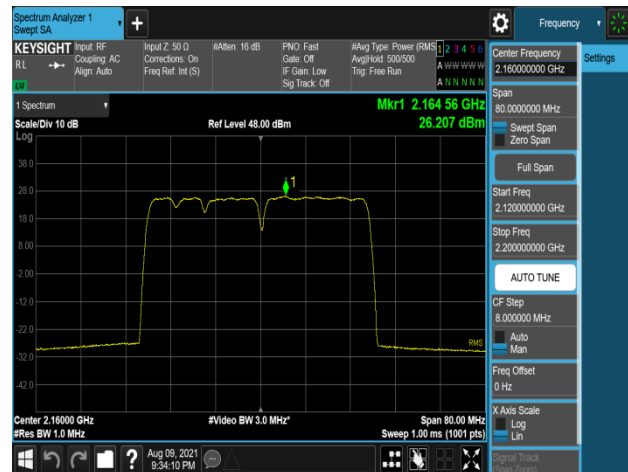
Plot 7-787. Peak Power Spectral Density Plot
(B66_5M+5M+10M+20M_4C_16QAM – Mid Channel, Port 2)



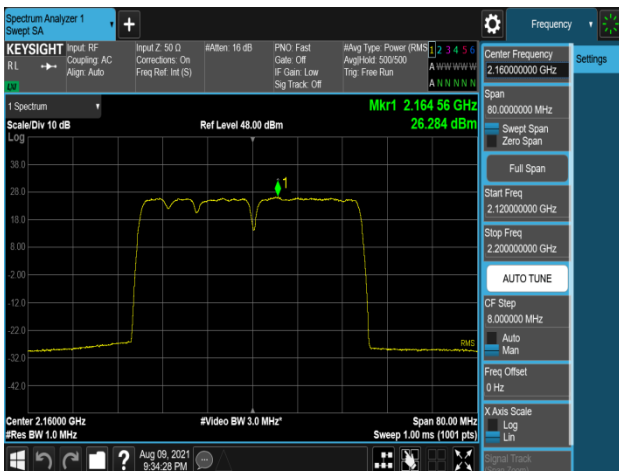
Plot 7-788. Peak Power Spectral Density Plot
(B66_5M+5M+10M+20M_4C_16QAM – Mid Channel, Port 3)



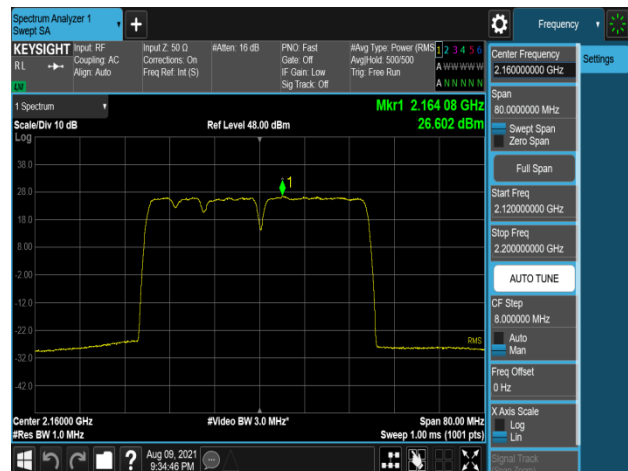
Plot 7-789. Peak Power Spectral Density Plot
(B66_5M+5M+10M+20M_4C_16QAM – High Channel, Port 0)



Plot 7-790. Peak Power Spectral Density Plot
(B66_5M+5M+10M+20M_4C_16QAM – High Channel, Port 1)



Plot 7-791. Peak Power Spectral Density Plot
(B66_5M+5M+10M+20M_4C_16QAM – High Channel, Port 2)



Plot 7-792. Peak Power Spectral Density Plot
(B66_5M+5M+10M+20M_4C_16QAM – High Channel, Port 3)

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7.5 Peak To Average Power Ratio (PAPR) § 24.232(d), § 27.50(b)

Test Overview

The peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7

ANSI C63.26-2015 – Section 5.2.3.4

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer setting were as follows:

1. The signal analyzer's CCDF function is enabled.
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

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

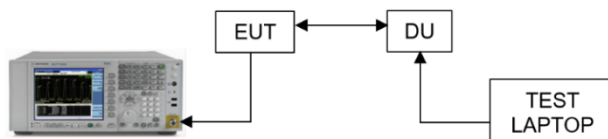


Figure 7-4. Test Instrument & Measurement Setup

Limit

The peak-to-average power ratio (PAPR) limit shall not exceed 13 dB for more than 0.1% of the time.

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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.56	7.57	7.55	7.54	< 13
	1	7.55	7.58	7.54	7.55	< 13
	2	7.55	7.57	7.55	7.53	< 13
	3	7.55	7.58	7.53	7.54	< 13
Middle	0	7.53	7.53	7.53	7.51	< 13
	1	7.53	7.55	7.53	7.51	< 13
	2	7.52	7.53	7.53	7.51	< 13
	3	7.53	7.54	7.53	7.51	< 13
High	0	7.53	7.55	7.54	7.52	< 13
	1	7.54	7.56	7.54	7.51	< 13
	2	7.54	7.55	7.54	7.53	< 13
	3	7.54	7.55	7.54	7.52	< 13

Table 7-156. Peak To Average Power Ratio Summary Data (B2_5M_1C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.54	7.56	7.51	7.55	< 13
	1	7.54	7.56	7.54	7.55	< 13
	2	7.54	7.54	7.54	7.55	< 13
	3	7.54	7.56	7.55	7.56	< 13
Middle	0	7.48	7.50	7.51	7.48	< 13
	1	7.48	7.51	7.52	7.50	< 13
	2	7.48	7.49	7.56	7.48	< 13
	3	7.49	7.49	7.53	7.49	< 13
High	0	7.51	7.50	7.49	7.50	< 13
	1	7.50	7.49	7.48	7.51	< 13
	2	7.51	7.51	7.52	7.51	< 13
	3	7.51	7.50	7.51	7.50	< 13

Table 7-157. Peak To Average Power Ratio Summary Data (B2_10M_1C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.59	7.64	7.60	7.61	< 13
	1	7.62	7.64	7.61	7.65	< 13
	2	7.60	7.62	7.61	7.61	< 13
	3	7.61	7.62	7.61	7.64	< 13
Middle	0	7.52	7.54	7.52	7.52	< 13
	1	7.53	7.53	7.52	7.54	< 13
	2	7.52	7.53	7.51	7.51	< 13
	3	7.52	7.52	7.51	7.51	< 13
High	0	7.53	7.55	7.52	7.53	< 13
	1	7.54	7.54	7.51	7.52	< 13
	2	7.54	7.55	7.50	7.53	< 13
	3	7.54	7.55	7.51	7.52	< 13

Table 7-158. Peak To Average Power Ratio Summary Data (B2_15M_1C)

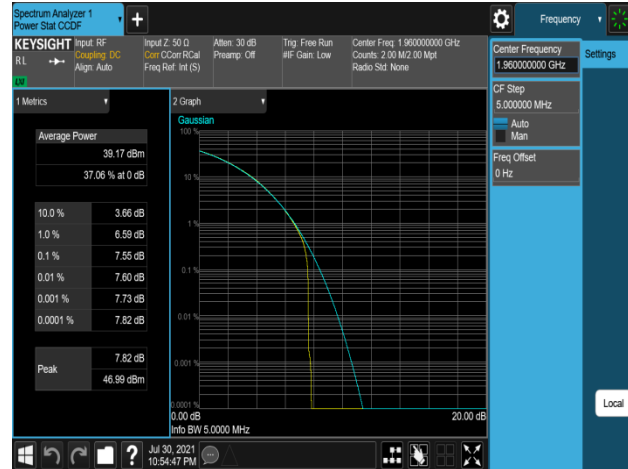
Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.72	7.70	7.71	7.70	< 13
	1	7.72	7.70	7.69	7.69	< 13
	2	7.71	7.67	7.69	7.69	< 13
	3	7.71	7.69	7.69	7.71	< 13
Middle	0	7.54	7.54	7.55	7.55	< 13
	1	7.54	7.53	7.54	7.54	< 13
	2	7.54	7.54	7.55	7.54	< 13
	3	7.54	7.54	7.55	7.54	< 13
High	0	7.55	7.53	7.53	7.54	< 13
	1	7.57	7.54	7.56	7.55	< 13
	2	7.77	7.76	7.76	7.76	< 13
	3	7.55	7.53	7.54	7.54	< 13

Table 7-159. Peak To Average Power Ratio Summary Data (B2_20M_1C)

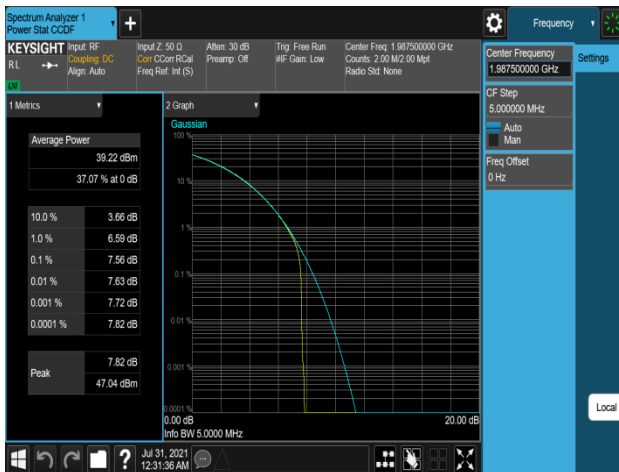
FCC ID: A3LRF4437D-25D	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 212 of 430



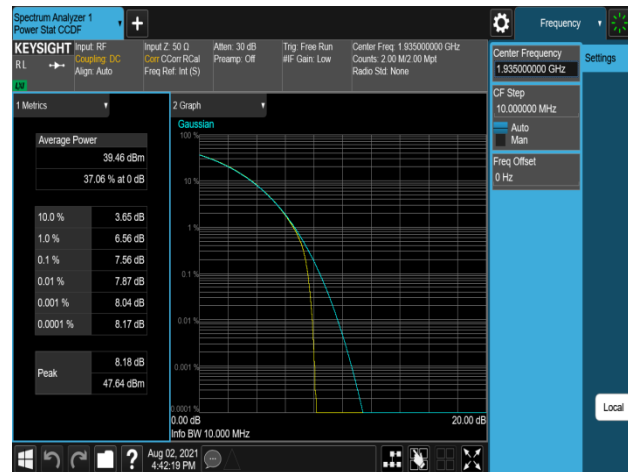
Plot 7-793. Peak To Average Power Ratio Plot
(B2_5M_1C_16QAM - Low Channel, Port 1)



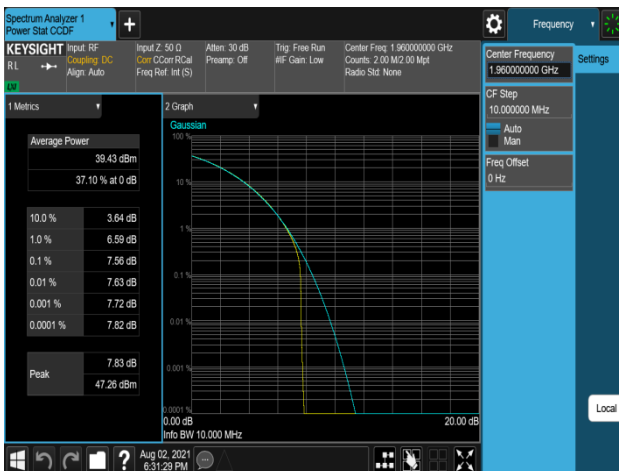
Plot 7-794. Peak To Average Power Ratio Plot
(B2_5M_1C_16QAM - Mid Channel, Port 1)



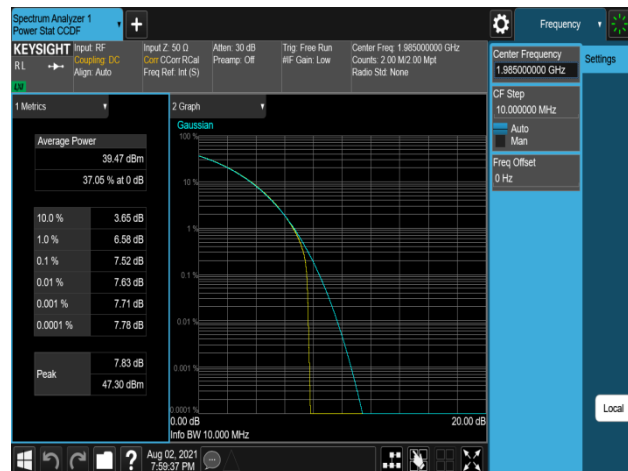
Plot 7-795. Peak To Average Power Ratio Plot
(B2_5M_1C_16QAM - High Channel, Port 1)



Plot 7-796. Peak To Average Power Ratio Plot
(B2_10M_1C_16QAM - Low Channel, Port 0)

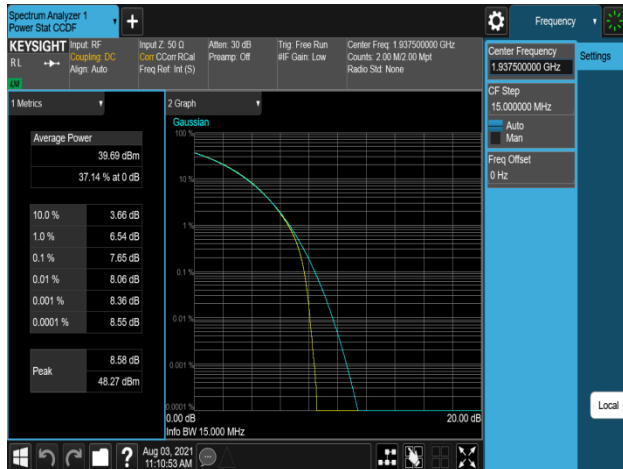


Plot 7-797. Peak To Average Power Ratio Plot
(B2_10M_1C_64QAM - Mid Channel, Port 2)

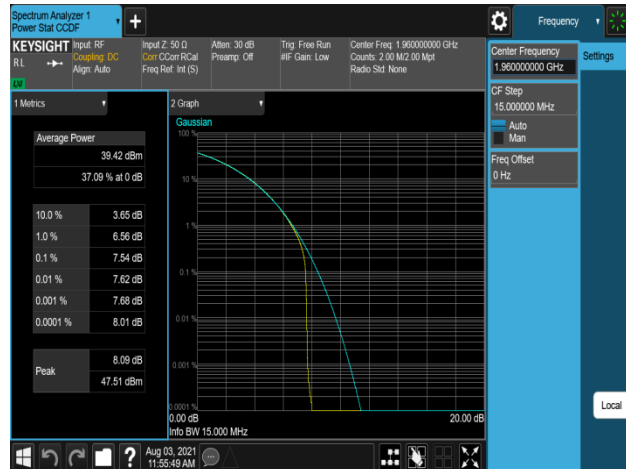


Plot 7-798. Peak To Average Power Ratio Plot
(B2_10M_1C_64QAM - High Channel, Port 2)

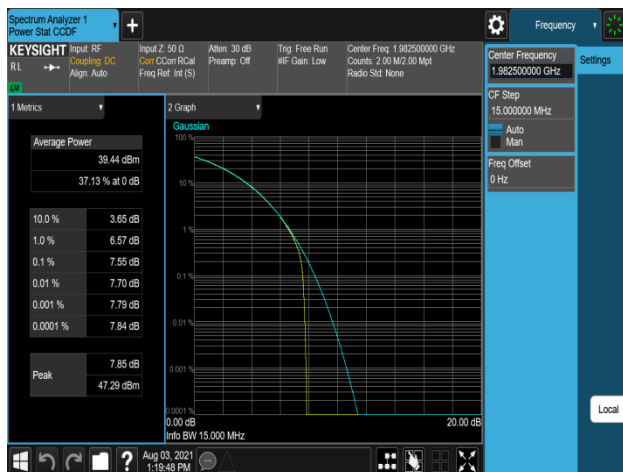
FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 213 of 430



Plot 7-799. Peak To Average Power Ratio Plot
(B2_15M_1C_256QAM – Low Channel, Port 1)



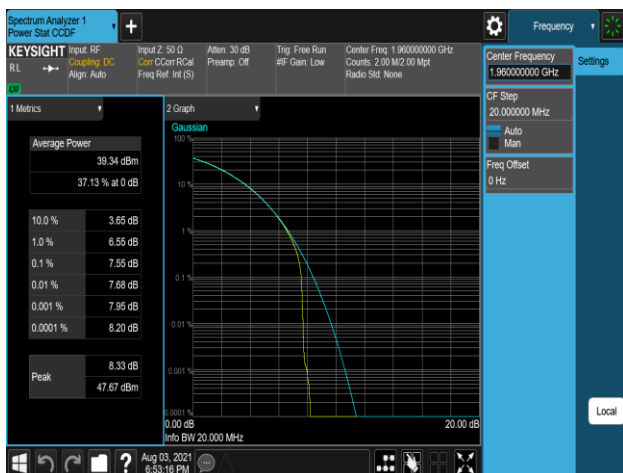
Plot 7-800. Peak To Average Power Ratio Plot
(B2_15M_1C_16QAM – Mid Channel, Port 0)



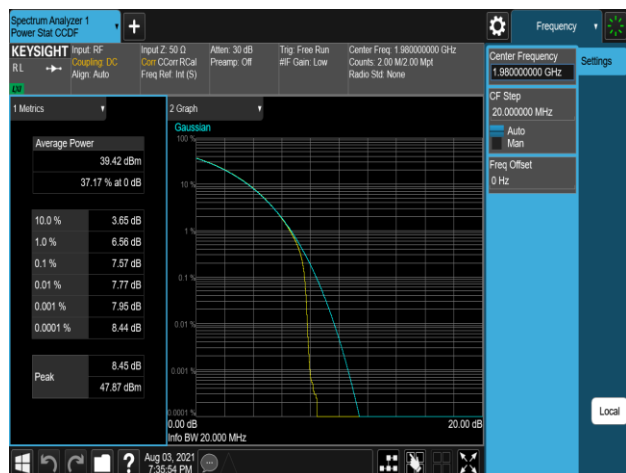
Plot 7-801. Peak To Average Power Ratio Plot
(B2_15M_1C_16QAM – High Channel, Port 0)



Plot 7-802. Peak To Average Power Ratio Plot
(B2_20M_1C_QPSK – Low Channel, Port 1)



Plot 7-803. Peak To Average Power Ratio Plot
(B2_20M_1C_64QAM – Mid Channel, Port 0)



Plot 7-804. Peak To Average Power Ratio Plot
(B2_20M_1C_QPSK – High Channel, Port 2)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.94	7.93	7.93	7.90	< 13
	1	7.93	7.94	7.95	7.92	< 13
	2	7.93	7.94	7.94	7.89	< 13
	3	7.92	7.93	7.95	7.90	< 13
Middle	0	7.93	7.95	7.93	7.90	< 13
	1	7.94	7.95	7.93	7.94	< 13
	2	7.93	7.93	7.93	7.91	< 13
	3	7.93	7.93	7.92	7.92	< 13
High	0	7.92	7.92	7.93	7.91	< 13
	1	7.92	7.94	7.93	7.92	< 13
	2	7.92	7.94	7.93	7.91	< 13
	3	7.94	7.93	7.94	7.91	< 13

Table 7-160. Peak To Average Power Ratio Summary Data (B2_5M+5M_2C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.04	8.03	8.02	8.04	< 13
	1	8.04	8.01	8.00	8.04	< 13
	2	8.05	8.01	7.99	8.04	< 13
	3	8.08	8.03	7.99	8.05	< 13
Middle	0	7.95	7.95	7.95	7.94	< 13
	1	7.97	7.97	7.97	7.96	< 13
	2	7.97	7.96	7.92	7.96	< 13
	3	7.96	7.96	7.91	7.96	< 13
High	0	7.92	7.91	7.91	7.93	< 13
	1	7.92	7.92	7.91	7.95	< 13
	2	7.93	7.91	7.90	7.94	< 13
	3	7.94	7.92	7.91	7.94	< 13

Table 7-161. Peak To Average Power Ratio Summary Data (B2_5M+20M_2C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 215 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.05	8.05	8.03	8.04	< 13
	1	8.04	8.06	8.02	8.06	< 13
	2	8.08	8.09	7.99	8.05	< 13
	3	8.07	8.09	8.00	8.07	< 13
Middle	0	7.95	7.96	7.95	7.97	< 13
	1	7.96	7.95	7.98	7.96	< 13
	2	7.97	7.93	7.87	7.94	< 13
	3	7.96	7.92	7.91	7.94	< 13
High	0	7.90	7.93	7.94	7.93	< 13
	1	7.92	7.94	7.94	7.91	< 13
	2	7.90	7.93	7.91	7.92	< 13
	3	7.89	7.92	7.90	7.91	< 13

Table 7-162. Peak To Average Power Ratio Summary Data (B2_10M+20M_2C)

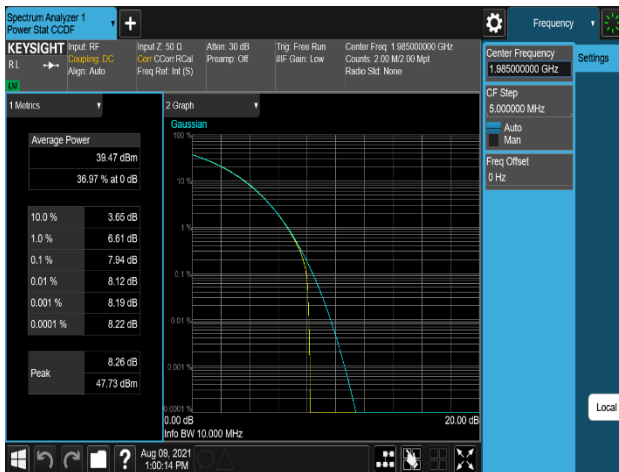
FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 216 of 430



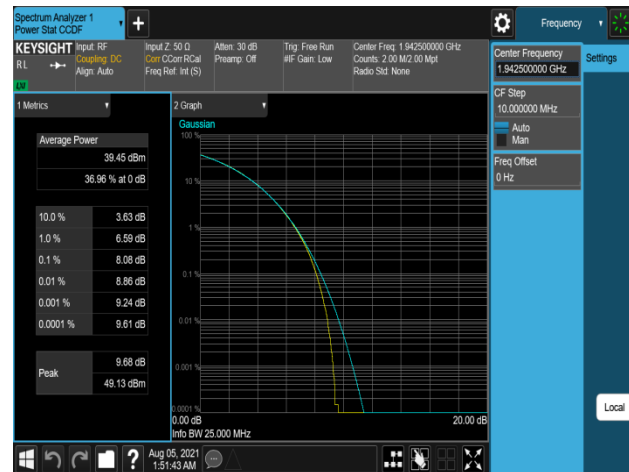
Plot 7-805. Peak To Average Power Ratio Plot
(B2_5M+5M_2C_64QAM - Low Channel, Port 1)



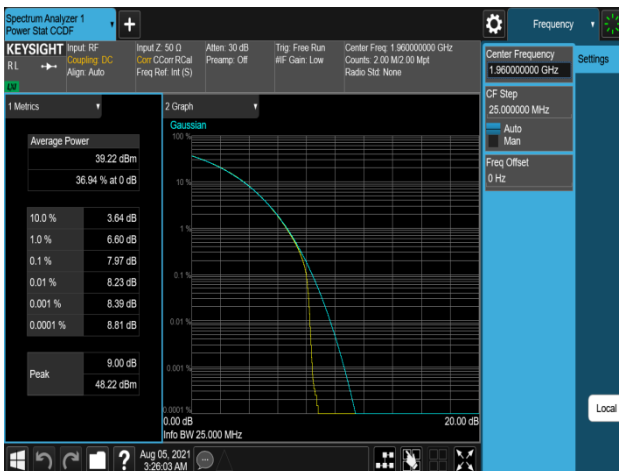
Plot 7-806. Peak To Average Power Ratio Plot
(B2_5M+5M_2C_16QAM - Mid Channel, Port 0)



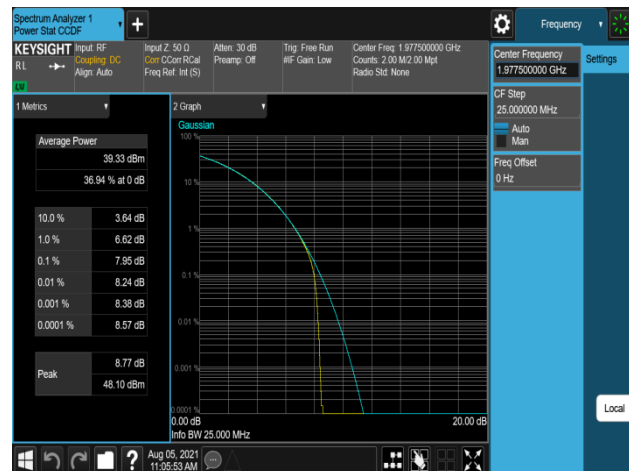
Plot 7-807. Peak To Average Power Ratio Plot
(B2_5M+5M_2C_QPSK - High Channel, Port 3)



Plot 7-808. Peak To Average Power Ratio Plot
(B2_5M+20M_2C_QPSK - Low Channel, Port 3)

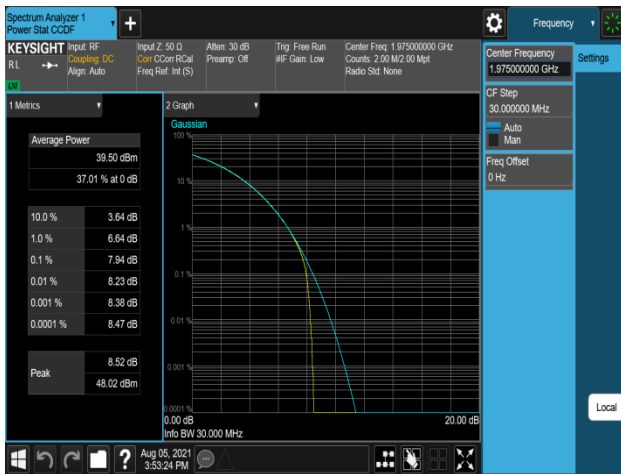
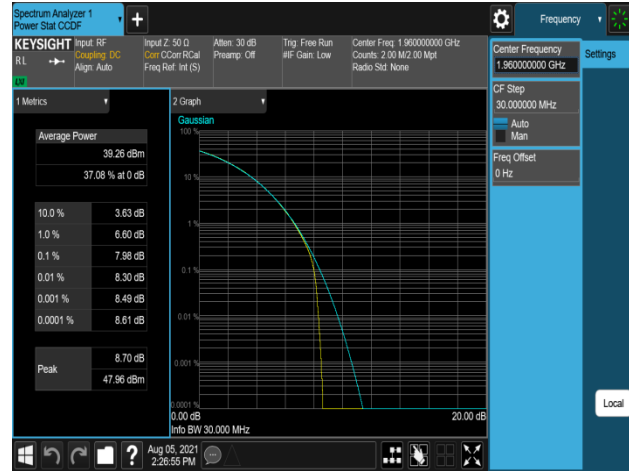


Plot 7-809. Peak To Average Power Ratio Plot
(B2_5M+20M_2C_QPSK - Mid Channel, Port 1)



Plot 7-810. Peak To Average Power Ratio Plot
(B2_5M+20M_2C_256QAM - High Channel, Port 1)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
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Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 218 of 430

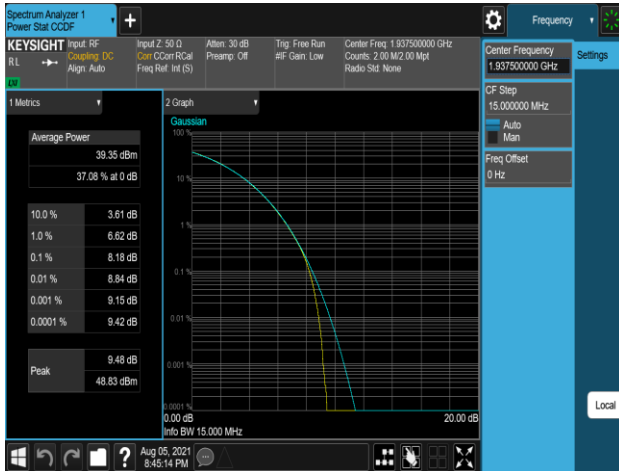
Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.15	8.17	8.15	8.16	< 13
	1	8.18	8.18	8.16	8.18	< 13
	2	8.16	8.15	8.16	8.13	< 13
	3	8.16	8.15	8.16	8.10	< 13
Middle	0	8.19	8.22	8.20	8.17	< 13
	1	8.20	8.20	8.19	8.17	< 13
	2	8.19	8.19	8.15	8.12	< 13
	3	8.19	8.16	8.15	8.14	< 13
High	0	8.17	8.17	8.16	8.16	< 13
	1	8.19	8.18	8.17	8.17	< 13
	2	8.18	8.16	8.15	8.12	< 13
	3	8.17	8.17	8.15	8.12	< 13

Table 7-163. Peak To Average Power Radio Summary Data (B2_5M+5M+5M_3C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.20	8.21	8.20	8.20	< 13
	1	8.20	8.17	8.20	8.20	< 13
	2	8.18	8.20	8.15	8.18	< 13
	3	8.16	8.20	8.16	8.20	< 13
Middle	0	8.25	8.20	8.18	8.16	< 13
	1	8.19	8.18	8.18	8.17	< 13
	2	8.14	8.23	8.21	8.17	< 13
	3	8.16	8.24	8.20	8.19	< 13
High	0	8.18	8.19	8.15	8.15	< 13
	1	8.17	8.19	8.15	8.16	< 13
	2	8.15	8.16	8.16	8.10	< 13
	3	8.15	8.16	8.16	8.13	< 13

Table 7-164. Peak To Average Power Radio Summary Data (B2_5M+5M+20M_3C)

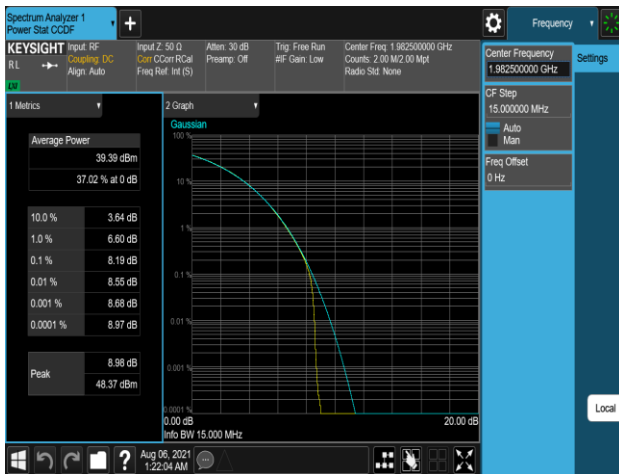
FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 219 of 430



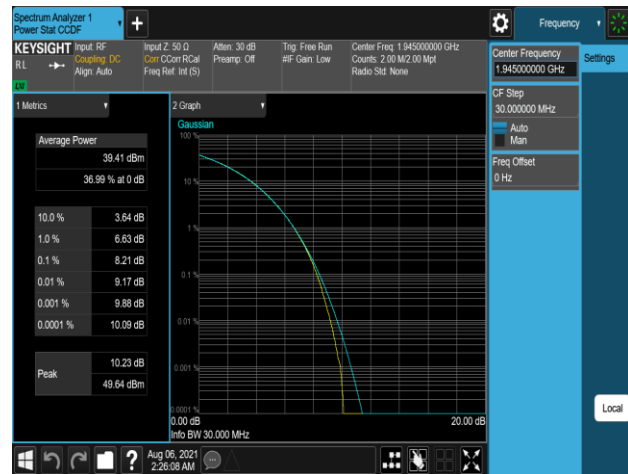
Plot 7-814. Peak To Average Power Ratio Plot
(B2_5M+5M+5M_3C_QPSK - Low Channel, Port 1)



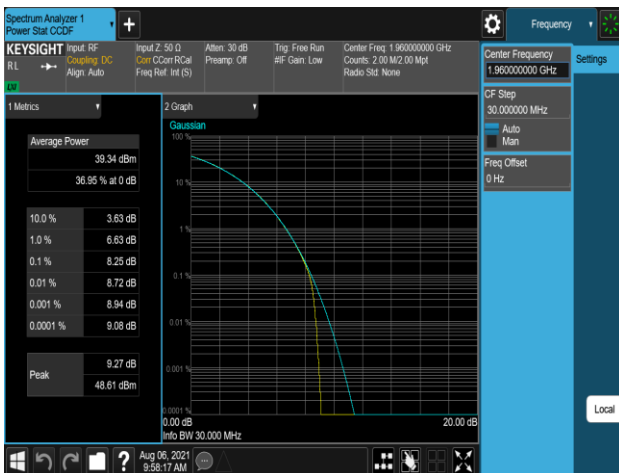
Plot 7-815. Peak To Average Power Ratio Plot
(B2_5M+5M+5M_3C_16QAM - Mid Channel, Port 0)



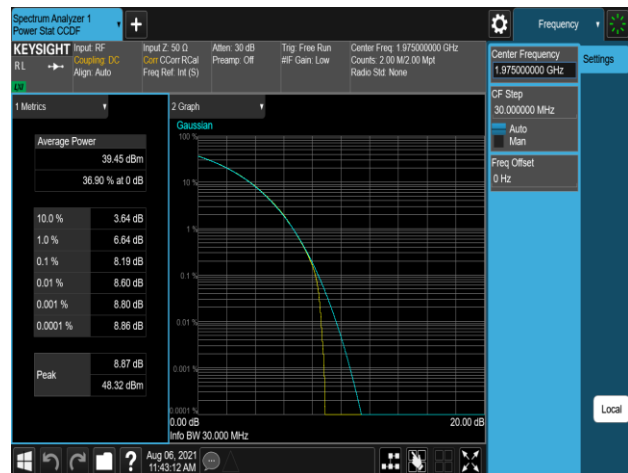
Plot 7-816. Peak To Average Power Ratio Plot
(B2_5M+5M+5M_3C_QPSK - High Channel, Port 1)



Plot 7-817. Peak To Average Power Ratio Plot
(B2_5M+5M+20M_3C_16QAM - Low Channel, Port 0)



Plot 7-818. Peak To Average Power Ratio Plot
(B2_5M+5M+20M_3C_QPSK - Mid Channel, Port 0)



Plot 7-819. Peak To Average Power Ratio Plot
(B2_5M+5M+20M_3C_16QAM - High Channel, Port 0)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 220 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.52	7.53	7.50	7.51	< 13
	1	7.50	7.50	7.50	7.51	< 13
	2	7.49	7.50	7.45	7.52	< 13
	3	7.52	7.51	7.35	7.51	< 13
Middle	0	7.47	7.46	7.48	7.49	< 13
	1	7.48	7.48	7.46	7.51	< 13
	2	7.48	7.48	7.49	7.51	< 13
	3	7.49	7.48	7.47	7.50	< 13
High	0	7.45	7.47	6.80	7.49	< 13
	1	7.47	7.48	7.47	7.50	< 13
	2	7.47	6.87	7.46	7.50	< 13
	3	7.47	7.48	7.36	7.49	< 13

Table 7-165. Peak To Average Power Ratio Summary Data (B66_5M_1C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.54	7.54	7.53	7.54	< 13
	1	7.53	7.52	7.52	7.53	< 13
	2	7.54	7.53	7.52	7.54	< 13
	3	7.55	7.53	7.54	7.55	< 13
Middle	0	7.45	7.45	7.44	7.45	< 13
	1	7.45	7.47	7.46	7.45	< 13
	2	7.45	7.45	7.48	7.45	< 13
	3	7.45	7.47	7.45	7.45	< 13
High	0	7.43	7.45	7.44	7.43	< 13
	1	7.45	7.44	7.44	7.45	< 13
	2	7.43	7.44	7.43	7.43	< 13
	3	7.45	7.47	7.44	7.45	< 13

Table 7-166. Peak To Average Power Ratio Summary Data (B66_10M_1C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 221 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.61	7.61	7.59	7.62	< 13
	1	7.58	7.57	7.56	7.59	< 13
	2	7.57	7.57	7.57	7.60	< 13
	3	7.59	7.62	7.58	7.62	< 13
Middle	0	7.52	7.51	7.51	7.52	< 13
	1	7.52	7.50	7.52	7.52	< 13
	2	7.52	7.51	7.51	7.52	< 13
	3	7.51	7.51	7.51	7.51	< 13
High	0	7.52	7.48	7.50	7.53	< 13
	1	7.51	7.50	7.51	7.51	< 13
	2	7.51	7.51	7.50	7.50	< 13
	3	7.51	7.49	7.51	7.50	< 13

Table 7-167. Peak To Average Power Radio Summary Data (B66_15M_1C)

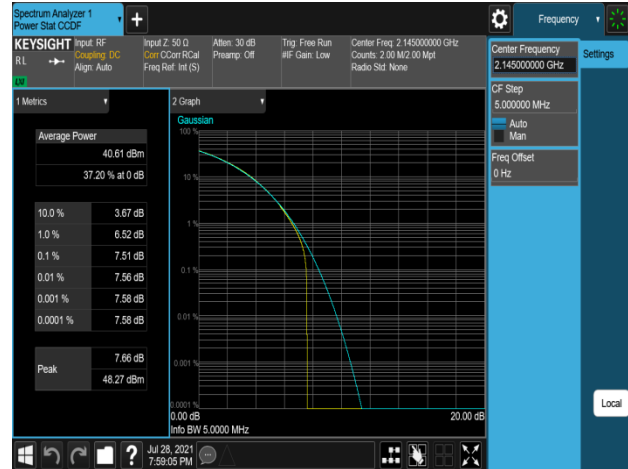
Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.64	7.63	7.62	7.63	< 13
	1	7.61	7.58	7.56	7.59	< 13
	2	7.62	7.59	7.59	7.60	< 13
	3	7.64	7.62	7.62	7.62	< 13
Middle	0	7.53	7.50	7.52	7.53	< 13
	1	7.53	7.50	7.55	7.54	< 13
	2	7.54	7.50	7.54	7.55	< 13
	3	7.54	7.50	7.56	7.54	< 13
High	0	7.52	7.50	7.51	7.54	< 13
	1	7.54	7.50	7.53	7.55	< 13
	2	7.54	7.50	7.53	7.55	< 13
	3	7.53	7.50	7.53	7.58	< 13

Table 7-168. Peak To Average Power Radio Summary Data (B66_20M_1C)

FCC ID: A3LRF4437D-25D	 PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 222 of 430



Plot 7-820. Peak To Average Power Ratio Plot
(B66_5M_1C_16QAM - Low Channel, Port 0)



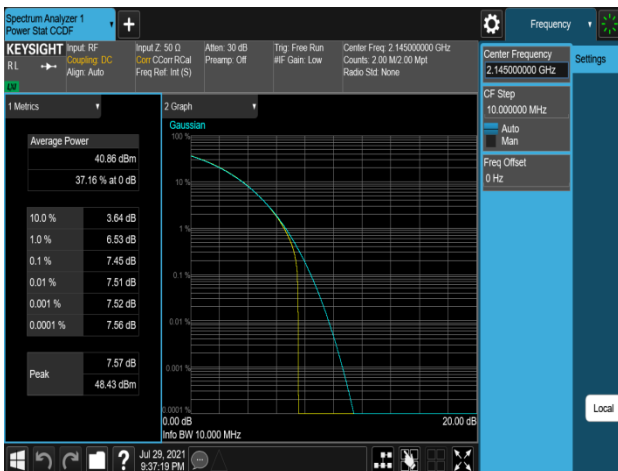
Plot 7-821. Peak To Average Power Ratio Plot
(B66_5M_1C_256QAM - Mid Channel, Port 1)



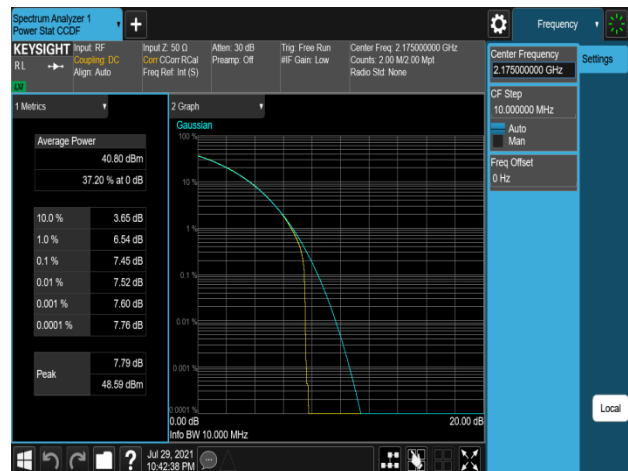
Plot 7-822. Peak To Average Power Ratio Plot
(B66_5M_1C_256QAM - High Channel, Port 1)



Plot 7-823. Peak To Average Power Ratio Plot
(B66_10M_1C_QPSK - Low Channel, Port 3)

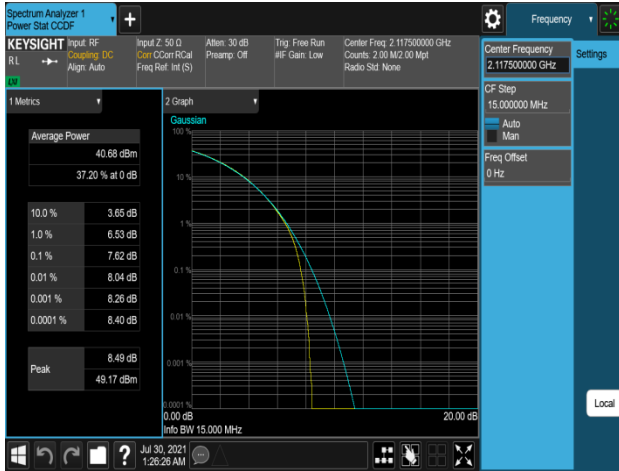


Plot 7-824. Peak To Average Power Ratio Plot
(B66_10M_1C_64QAM - Mid Channel, Port 2)



Plot 7-825. Peak To Average Power Ratio Plot
(B66_10M_1C_16QAM - High Channel, Port 3)

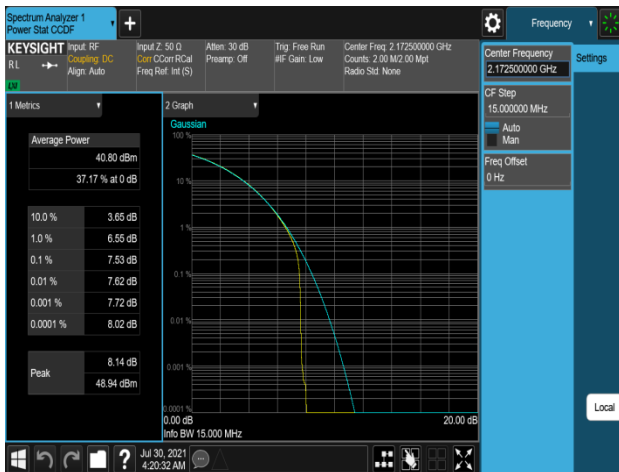
FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 223 of 430



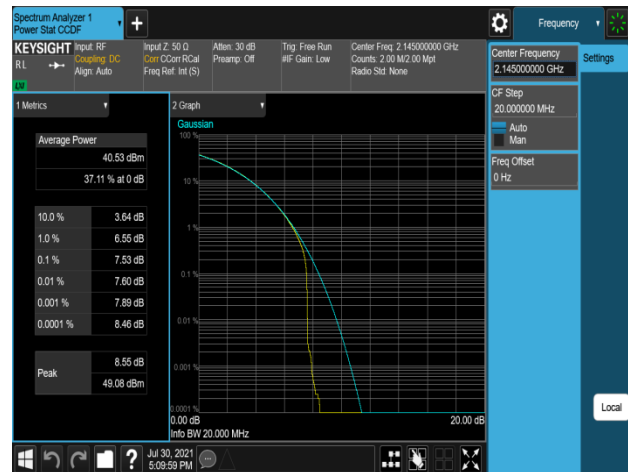
Plot 7-826. Peak To Average Power Ratio Plot
(B66_15M_1C_16QAM – Low Channel, Port 3)



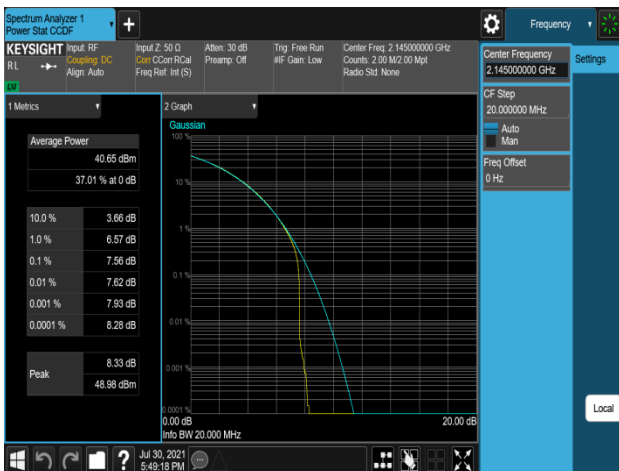
Plot 7-827. Peak To Average Power Ratio Plot
(B66_15M_1C_QPSK – Mid Channel, Port 0)



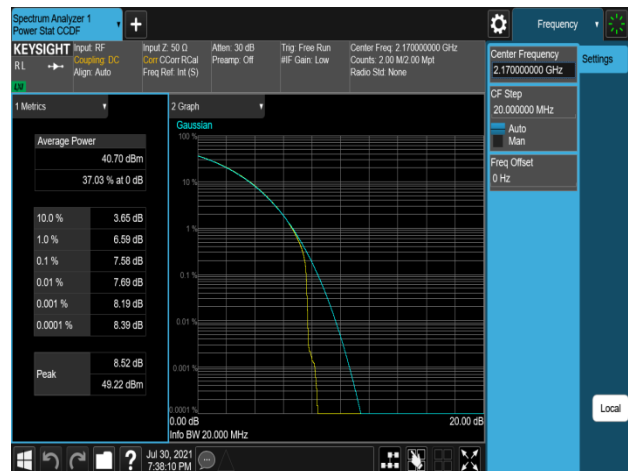
Plot 7-828. Peak To Average Power Ratio Plot
(B66_15M_1C_256QAM – High Channel, Port 0)



Plot 7-829. Peak To Average Power Ratio Plot
(B66_20M_1C_QPSK – Low Channel, Port 0)



Plot 7-830. Peak To Average Power Ratio Plot
(B66_20M_1C_64QAM – Mid Channel, Port 3)



Plot 7-831. Peak To Average Power Ratio Plot
(B66_20M_1C_256QAM – High Channel, Port 3)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 224 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.91	7.88	7.88	7.86	< 13
	1	7.90	7.86	7.89	7.85	< 13
	2	7.89	7.87	7.89	7.85	< 13
	3	7.90	7.87	7.91	7.86	< 13
Middle	0	7.90	7.86	7.89	7.86	< 13
	1	7.85	7.84	7.87	7.86	< 13
	2	7.91	7.88	7.89	7.89	< 13
	3	7.92	7.89	7.89	7.89	< 13
High	0	7.89	7.85	7.85	7.88	< 13
	1	7.84	7.87	7.88	7.89	< 13
	2	7.89	7.89	7.86	7.88	< 13
	3	7.91	7.89	7.88	7.89	< 13

Table 7-169. Peak To Average Power Ratio Summary Data (B66_5M+5M_2C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.97	7.99	7.95	8.00	< 13
	1	7.96	7.97	7.96	8.01	< 13
	2	7.96	7.96	7.95	7.98	< 13
	3	7.98	7.99	7.98	8.01	< 13
Middle	0	7.96	7.94	7.94	7.96	< 13
	1	7.96	7.94	7.95	7.96	< 13
	2	7.93	7.94	7.94	7.95	< 13
	3	7.95	7.94	7.95	7.96	< 13
High	0	7.95	7.95	7.96	7.95	< 13
	1	7.96	7.95	7.93	7.98	< 13
	2	7.96	7.94	7.92	7.96	< 13
	3	7.96	7.96	7.94	7.98	< 13

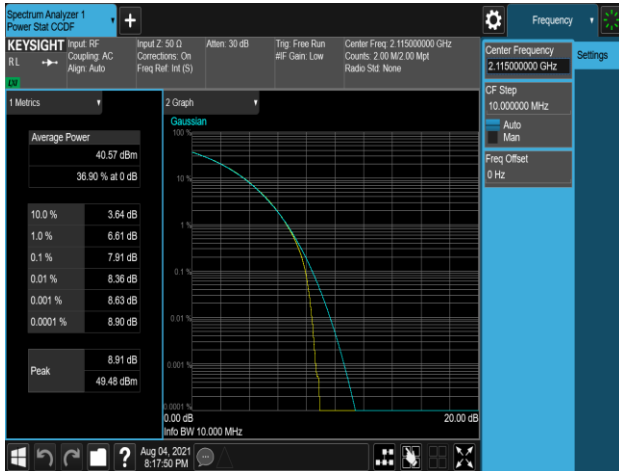
Table 7-170. Peak To Average Power Ratio Summary Data (B66_5M+20M_2C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 225 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	7.96	7.98	7.97	8.00	< 13
	1	7.95	8.00	7.95	8.00	< 13
	2	7.96	7.95	7.95	7.99	< 13
	3	7.97	7.95	7.96	7.99	< 13
Middle	0	7.95	7.92	7.95	7.96	< 13
	1	7.95	7.94	7.94	7.96	< 13
	2	7.95	7.94	7.93	7.95	< 13
	3	7.96	7.94	7.95	7.95	< 13
High	0	7.93	7.92	7.94	7.92	< 13
	1	7.92	7.93	7.93	7.93	< 13
	2	7.95	7.92	7.95	7.94	< 13
	3	7.94	7.93	7.94	7.95	< 13

Table 7-171. Peak To Average Power Radio Summary Data (B66_20M+20M_2C)

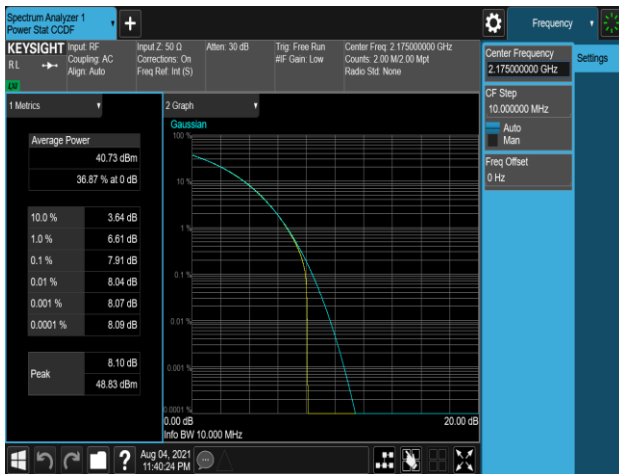
FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 226 of 430



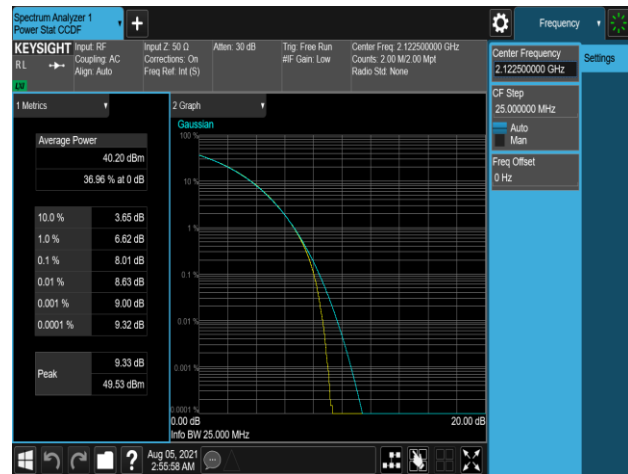
Plot 7-832. Peak To Average Power Ratio Plot
(B66_5M+5M_2C_QPSK - Low Channel, Port 0)



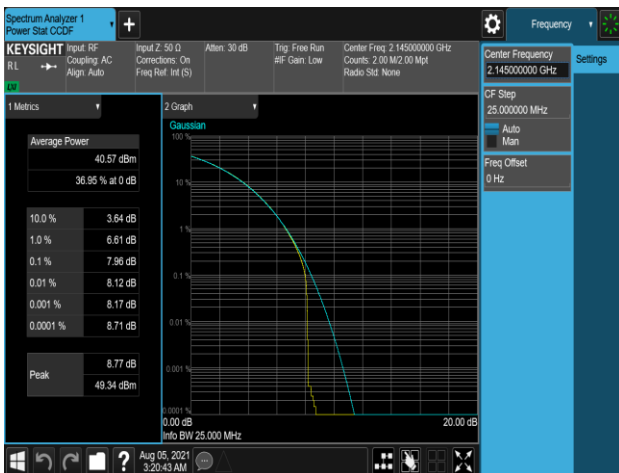
Plot 7-833. Peak To Average Power Ratio Plot
(B66_5M+5M_2C_QPSK - Mid Channel, Port 3)



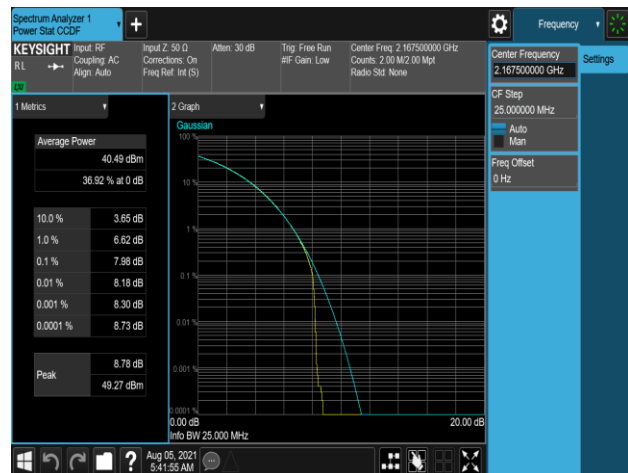
Plot 7-834. Peak To Average Power Ratio Plot
(B66_5M+5M_2C_QPSK - High Channel, Port 3)



Plot 7-835. Peak To Average Power Ratio Plot
(B66_5M+20M_2C_256QAM - Low Channel, Port 1)

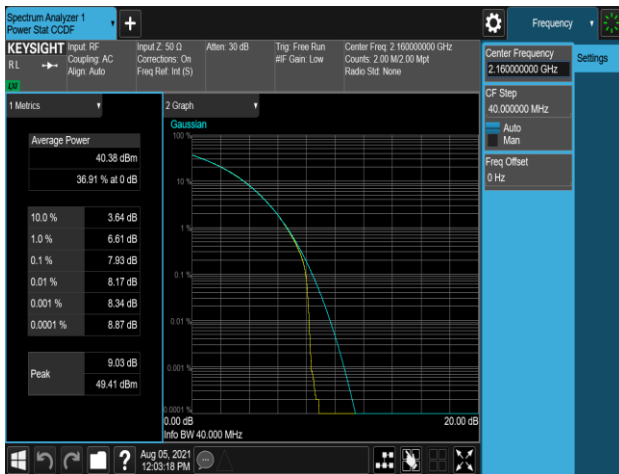
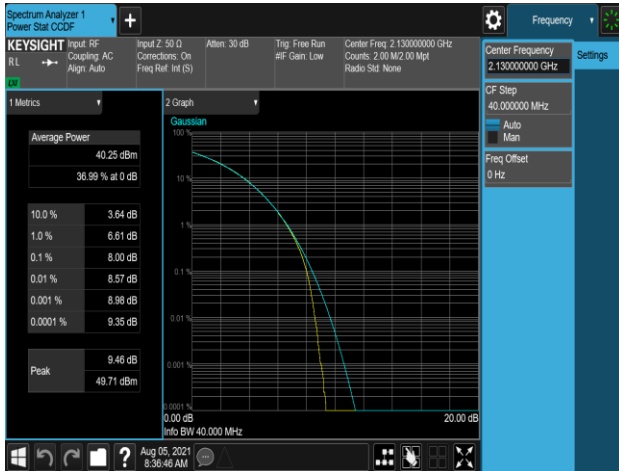


Plot 7-836. Peak To Average Power Ratio Plot
(B66_5M+20M_2C_QPSK - Mid Channel, Port 0)



Plot 7-837. Peak To Average Power Ratio Plot
(B66_5M+20M_2C_256QAM - High Channel, Port 1)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 227 of 430



FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 228 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.20	8.17	8.14	8.15	< 13
	1	8.20	8.15	8.14	8.13	< 13
	2	8.13	8.16	8.13	8.15	< 13
	3	8.14	8.15	8.10	8.12	< 13
Middle	0	8.21	8.12	8.17	8.21	< 13
	1	8.19	8.14	8.18	8.20	< 13
	2	8.19	8.14	8.16	8.20	< 13
	3	8.18	8.16	8.16	8.20	< 13
High	0	8.17	8.14	8.17	8.17	< 13
	1	8.17	8.15	8.16	8.16	< 13
	2	8.18	8.17	8.14	8.18	< 13
	3	8.18	8.15	8.15	8.17	< 13

Table 7-172. Peak To Average Power Ratio Summary Data (B66_5M+5M+5M_3C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.14	8.12	8.16	8.16	< 13
	1	8.12	8.12	8.17	8.14	< 13
	2	8.15	8.11	8.13	8.10	< 13
	3	8.17	8.15	8.15	8.10	< 13
Middle	0	8.16	8.17	8.24	8.18	< 13
	1	8.19	8.17	8.24	8.20	< 13
	2	8.16	8.17	8.18	8.17	< 13
	3	8.18	8.18	8.18	8.17	< 13
High	0	8.18	8.19	8.17	8.16	< 13
	1	8.20	8.22	8.19	8.16	< 13
	2	8.19	8.16	8.19	8.18	< 13
	3	8.20	8.17	8.21	8.17	< 13

Table 7-173. Peak To Average Power Ratio Summary Data (B66_5M+5M+20M_3C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 229 of 430

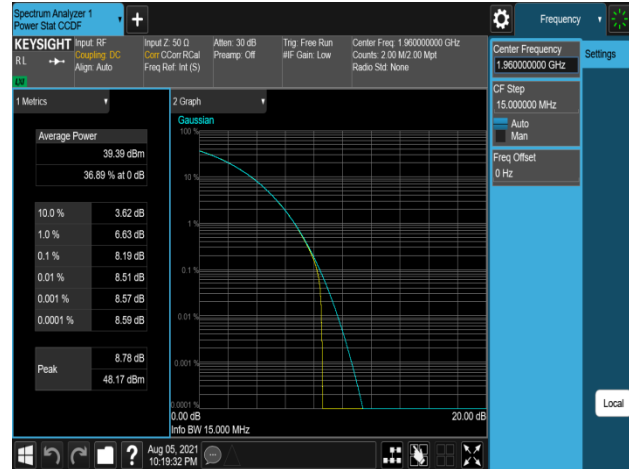
Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.13	8.19	8.15	8.17	< 13
	1	8.14	8.16	8.17	8.15	< 13
	2	8.12	8.15	8.13	8.15	< 13
	3	8.14	8.14	8.15	8.17	< 13
Middle	0	8.18	8.18	8.18	8.16	< 13
	1	8.15	8.17	8.19	8.16	< 13
	2	8.20	8.17	8.15	8.15	< 13
	3	8.21	8.17	8.17	8.15	< 13
High	0	8.15	8.14	8.13	8.16	< 13
	1	8.16	8.15	8.15	8.16	< 13
	2	8.15	8.15	8.13	8.15	< 13
	3	8.16	8.17	8.16	8.16	< 13

Table 7-174. Peak To Average Power Ratio Summary Data (B66_5M+15M+20M_3C)

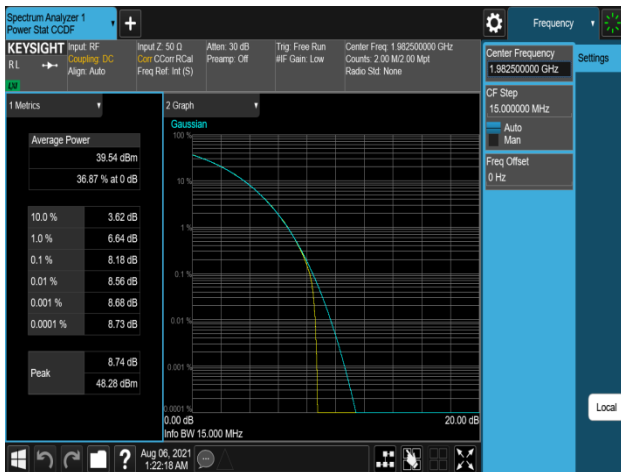
FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 230 of 430



Plot 7-841. Peak To Average Power Ratio Plot
(B66_5M+5M+5M_3C_QPSK - Low Channel, Port 0)



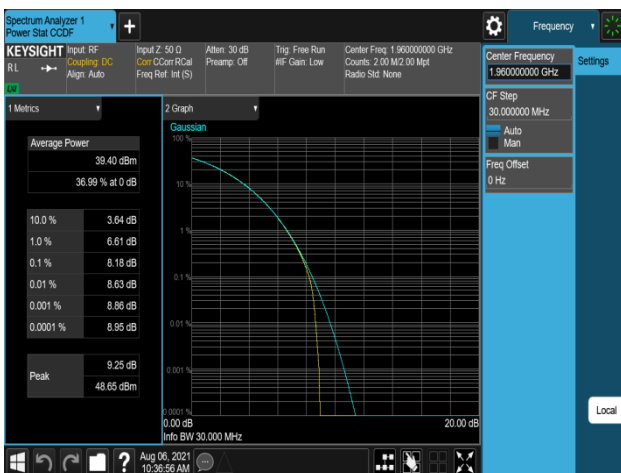
Plot 7-842. Peak To Average Power Ratio Plot
(B66_5M+5M+5M_3C_QPSK - Mid Channel, Port 3)



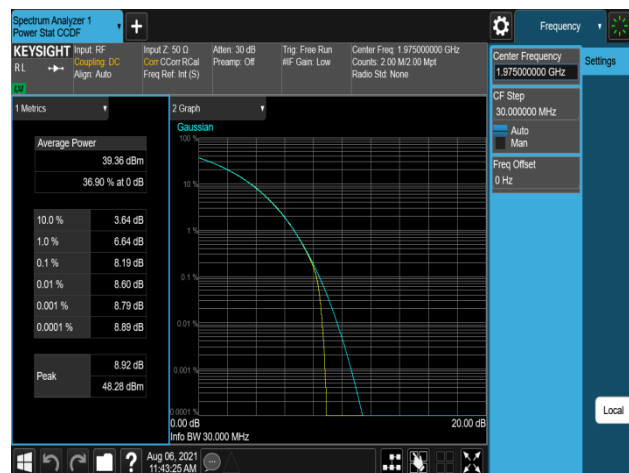
Plot 7-843. Peak To Average Power Ratio Plot
(B66_5M+5M+5M_3C_QPSK - High Channel, Port 3)



Plot 7-844. Peak To Average Power Ratio Plot
(B66_5M+5M+20M_3C_64QAM - Low Channel, Port 1)

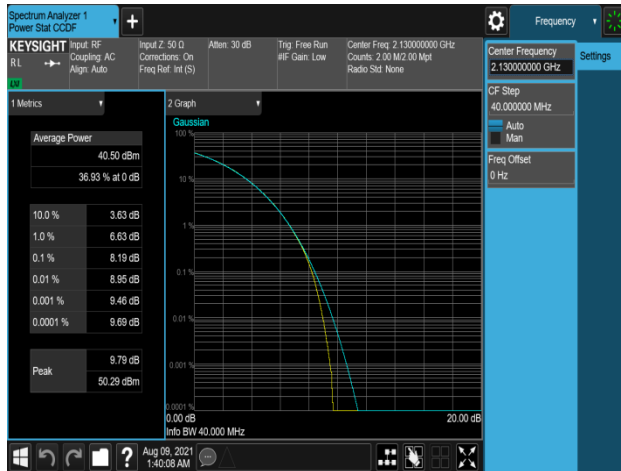


Plot 7-845. Peak To Average Power Ratio Plot
(B66_5M+5M+20M_3C_64QAM - Mid Channel, Port 0)

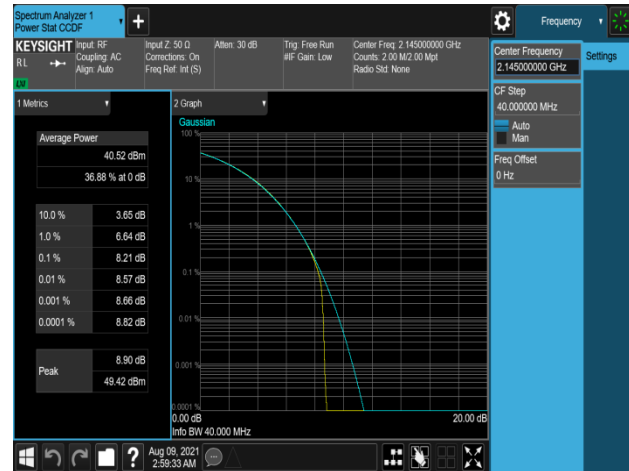


Plot 7-846. Peak To Average Power Ratio Plot
(B66_5M+5M+20M_3C_16QAM - High Channel, Port 1)

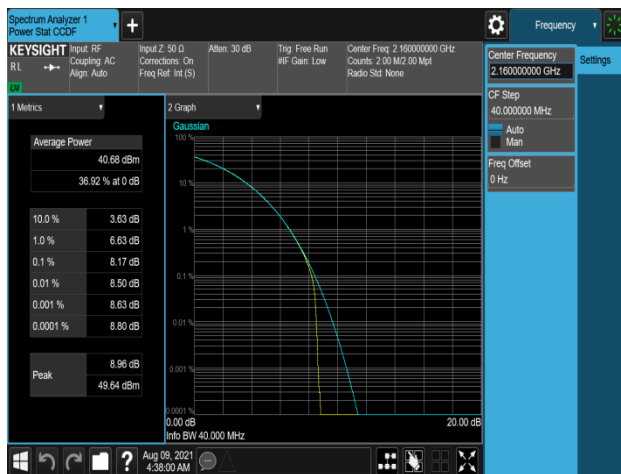
FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 231 of 430



Plot 7-847. Peak To Average Power Ratio Plot
(B66_5M+15M+20M_3C_16QAM – Low Channel, Port 0)



Plot 7-848. Peak To Average Power Ratio Plot
(B66_5M+15M+20M_3C_QPSK – Mid Channel, Port 3)



Plot 7-849. Peak To Average Power Ratio Plot
(B66_5M+15M+20M_3C_16QAM – High Channel, Port 3)

FCC ID: A3LRF4437D-25D	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 232 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.24	8.16	8.19	8.17	< 13
	1	8.24	8.18	8.20	8.16	< 13
	2	8.26	8.24	8.17	8.19	< 13
	3	8.27	8.22	8.17	8.21	< 13
Middle	0	8.22	8.26	8.13	8.21	< 13
	1	8.22	8.24	8.16	8.22	< 13
	2	8.23	8.24	8.23	8.25	< 13
	3	8.25	8.25	8.24	8.24	< 13
High	0	8.30	8.26	8.22	8.23	< 13
	1	8.29	8.29	8.24	8.25	< 13
	2	8.27	8.24	8.22	8.23	< 13
	3	8.28	8.25	8.25	8.22	< 13

Table 7-175. Peak To Average Power Radio Summary Data (B66_5M+5M+5M+5M_4C)

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.17	8.25	8.19	8.19	< 13
	1	8.17	8.21	8.18	8.19	< 13
	2	8.19	8.19	8.07	8.22	< 13
	3	8.18	8.17	8.08	8.20	< 13
Middle	0	8.23	8.24	8.23	8.25	< 13
	1	8.25	8.25	8.22	8.24	< 13
	2	8.24	8.24	8.26	8.21	< 13
	3	8.25	8.25	8.26	8.22	< 13
High	0	8.24	8.20	8.25	8.24	< 13
	1	8.24	8.24	8.25	8.26	< 13
	2	8.24	8.21	8.22	8.20	< 13
	3	8.23	8.25	8.23	8.20	< 13

Table 7-176. Peak To Average Power Radio Summary Data (B66_5M+5M+5M+20M_4C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 233 of 430

Channel	Port	PAPR (dB)				Limit (dB)
		QPSK	16QAM	64QAM	256QAM	
Low	0	8.21	8.24	8.20	8.20	< 13
	1	8.20	8.22	8.18	8.21	< 13
	2	8.22	8.20	8.21	8.21	< 13
	3	8.20	8.19	8.23	8.23	< 13
Middle	0	8.26	8.24	8.27	8.24	< 13
	1	8.25	8.22	8.27	8.26	< 13
	2	8.23	8.23	8.28	8.21	< 13
	3	8.24	8.22	8.27	8.21	< 13
High	0	8.25	8.21	8.21	8.20	< 13
	1	8.24	8.22	8.24	8.20	< 13
	2	8.23	8.22	8.22	8.21	< 13
	3	8.23	8.24	8.22	8.24	< 13

Table 7-177. Peak To Average Power Ratio Summary Data (B66_5M+5M+10M+20M_4C)

FCC ID: A3LRF4437D-25D		MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 8K21071202-02-R2.A3L	Test Dates: 07/19/2021-08/18/2021	EUT Type: RRU(RF4437d)		Page 234 of 430