



Plot 7-625. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Low Channel, Port 0)



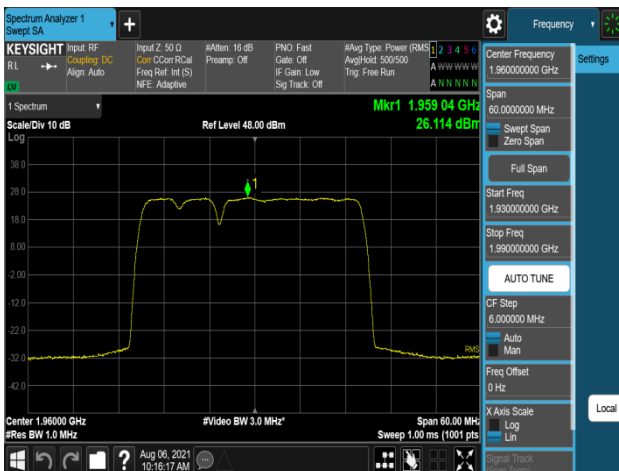
Plot 7-626. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Low Channel, Port 1)



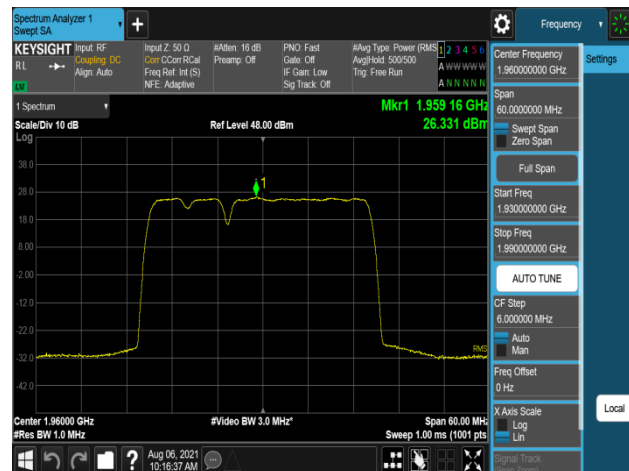
Plot 7-627. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Low Channel, Port 2)



Plot 7-628. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Low Channel, Port 3)

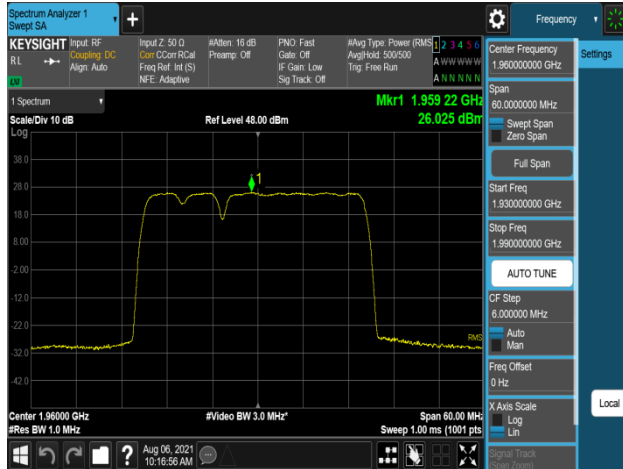


Plot 7-629. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Mid Channel, Port 0)

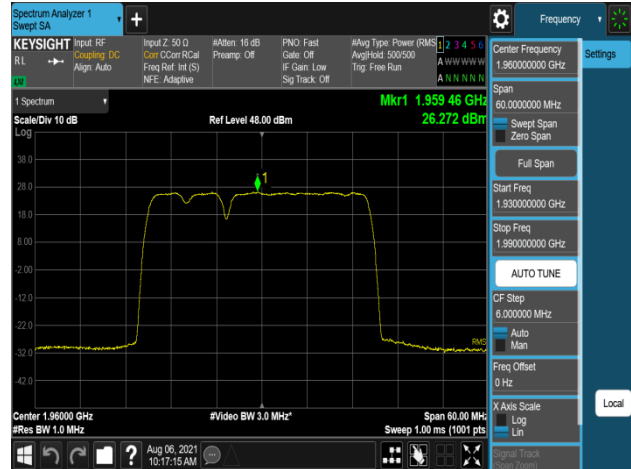


Plot 7-630. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Mid Channel, Port 1)

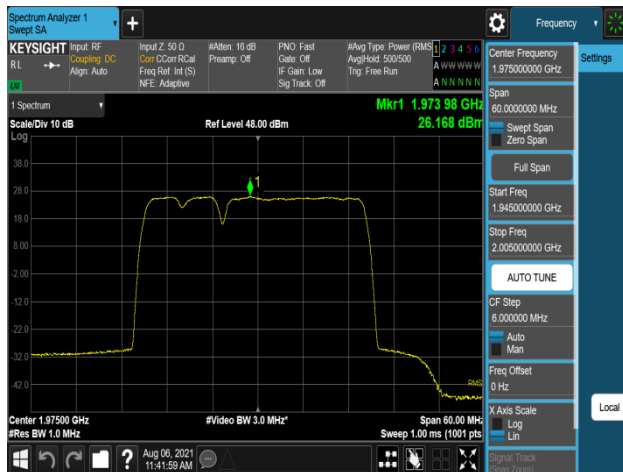
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 169 of 420



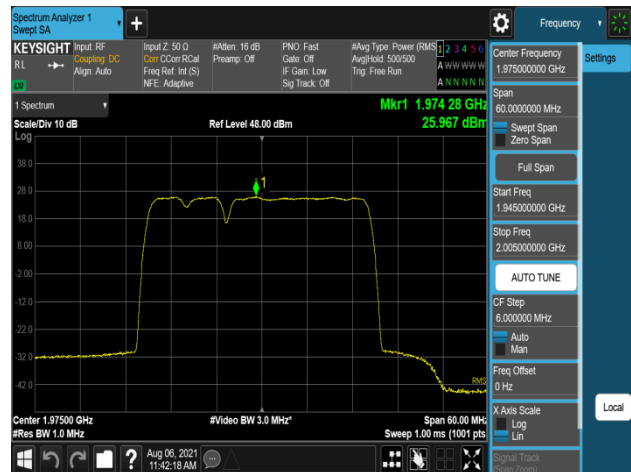
Plot 7-631. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Mid Channel, Port 2)



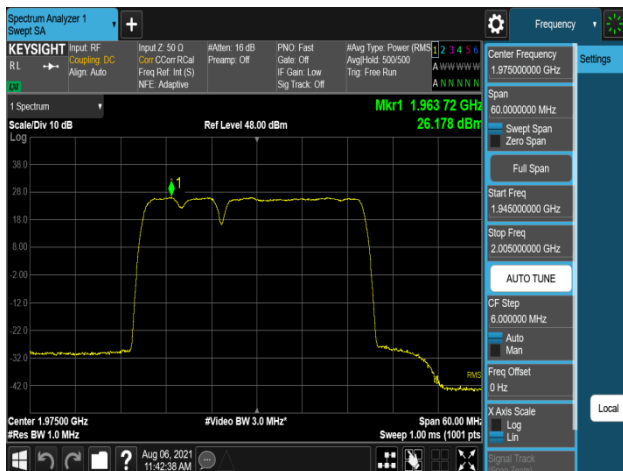
Plot 7-632. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - Mid Channel, Port 3)



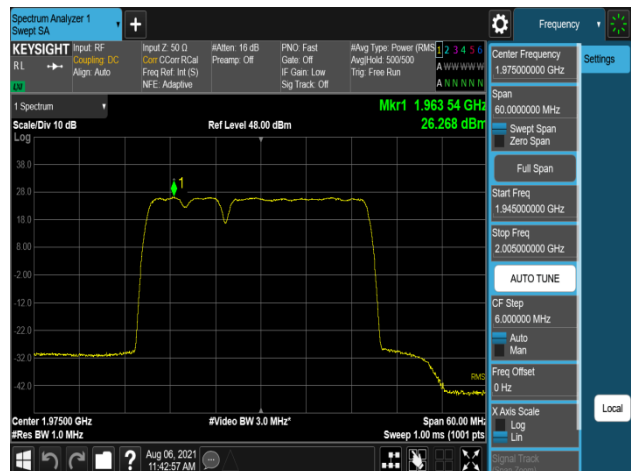
Plot 7-633. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - High Channel, Port 0)





Plot 7-634. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - High Channel, Port 1)



Plot 7-635. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - High Channel, Port 2)



Plot 7-636. Peak Power Spectral Density Plot
(B2_5M+5M+20M_3C_16QAM - High Channel, Port 3)

FCC ID: A3LRF4437D-25C	 MEASUREMENT REPORT 		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	34.55	34.96	34.62	34.56
	1	34.33	34.76	34.36	34.32
	2	34.62	34.93	34.59	34.61
	3	34.56	34.99	34.52	34.66
Total MIMO Conducted Power (mW/1MHz)		11318.66	12393.04	11335.13	11372.55
Total MIMO Conducted Power (dBm/1MHz)		40.54	40.93	40.54	40.56
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		53.04	53.43	53.04	53.06
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-9.11	-8.72	-9.10	-9.09



Table 7-117. Peak Power Spectral Density Table (B66_5M_1C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	34.53	34.79	34.58	34.47
	1	34.37	34.70	34.35	34.33
	2	34.58	34.95	34.58	34.54
	3	34.55	34.95	34.57	34.51
Total MIMO Conducted Power (mW/1MHz)		11292.37	12219.09	11326.36	11171.48
Total MIMO Conducted Power (dBm/1MHz)		40.53	40.87	40.54	40.48
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		53.03	53.37	53.04	52.98
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-9.12	-8.78	-9.11	-9.17

Table 7-118. Peak Power Spectral Density Table (B66_5M_1C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	34.67	34.98	34.64	34.57
	1	34.43	34.80	34.47	34.40
	2	34.55	34.94	34.62	34.54
	3	34.62	34.91	34.55	34.56
Total MIMO Conducted Power (mW/1MHz)		11453.82	12381.19	11462.79	11319.12
Total MIMO Conducted Power (dBm/1MHz)		40.59	40.93	40.59	40.54
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		53.09	53.43	53.09	53.04
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-9.06	-8.72	-9.06	-9.11

Table 7-119. Peak Power Spectral Density Table (B66_5M_1C - Mid Channel)

FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	32.00	32.32	32.09	32.11
	1	31.66	32.01	31.69	31.82
	2	31.85	32.33	31.91	31.98
	3	31.96	32.24	32.05	32.06
Total MIMO Conducted Power (mW/1MHz)		6152.65	6681.54	6249.69	6328.52
Total MIMO Conducted Power (dBm/1MHz)		37.89	38.25	37.96	38.01
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		50.39	50.75	50.46	50.51
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-11.76	-11.40	-11.69	-11.64



Table 7-120. Peak Power Spectral Density Table (B66_10M_1C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	31.93	32.07	31.81	31.88
	1	31.59	32.03	31.65	31.76
	2	31.86	32.28	31.99	32.06
	3	31.76	32.21	31.88	32.07
Total MIMO Conducted Power (mW/1MHz)		6033.57	6557.34	6100.37	6257.23
Total MIMO Conducted Power (dBm/1MHz)		37.81	38.17	37.85	37.96
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		50.31	50.67	50.35	50.46
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-11.84	-11.48	-11.79	-11.68

Table 7-121. Peak Power Spectral Density Table (B66_10M_1C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	31.81	32.25	31.94	32.04
	1	31.68	32.04	31.76	31.84
	2	31.96	32.37	32.01	32.01
	3	31.82	32.14	32.00	32.08
Total MIMO Conducted Power (mW/1MHz)		6082.38	6641.00	6231.61	6330.72
Total MIMO Conducted Power (dBm/1MHz)		37.84	38.22	37.95	38.01
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		50.34	50.72	50.45	50.51
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-11.81	-11.43	-11.70	-11.63

Table 7-122. Peak Power Spectral Density Table (B66_10M_1C - Mid Channel)

FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	30.05	30.76	30.10	30.17
	1	29.78	30.60	29.87	30.02
	2	30.02	30.84	30.20	30.11
	3	30.09	30.99	30.09	30.06
Total MIMO Conducted Power (mW/1MHz)		3988.27	4806.91	4059.31	4086.23
Total MIMO Conducted Power (dBm/1MHz)		36.01	36.82	36.08	36.11
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		48.51	49.32	48.58	48.61
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-13.64	-12.83	-13.56	-13.54



Table 7-123. Peak Power Spectral Density Table (B66_15M_1C - Low Channel)

Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	29.95	30.81	30.03	29.88
	1	29.79	30.67	29.90	29.81
	2	30.09	30.96	30.26	30.08
	3	29.97	30.79	30.09	30.16
Total MIMO Conducted Power (mW/1MHz)		3954.54	4816.25	4067.07	3987.93
Total MIMO Conducted Power (dBm/1MHz)		35.97	36.83	36.09	36.01
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		48.47	49.33	48.59	48.51
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-13.68	-12.82	-13.56	-13.64

Table 7-124. Peak Power Spectral Density Table (B66_15M_1C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	30.17	30.97	30.15	30.12
	1	29.95	30.87	30.01	30.03
	2	30.20	31.01	30.17	30.22
	3	30.10	31.03	30.18	30.18
Total MIMO Conducted Power (mW/1MHz)		4097.25	5003.56	4121.11	4128.74
Total MIMO Conducted Power (dBm/1MHz)		36.12	36.99	36.15	36.16
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		48.62	49.49	48.65	48.66
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-13.52	-12.66	-13.50	-13.49

Table 7-125. Peak Power Spectral Density Table (B66_15M_1C - Mid Channel)

FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
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Low Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	28.83	29.00	28.68	28.68
	1	28.56	28.80	28.58	28.53
	2	28.76	29.22	29.75	28.75
	3	28.73	29.28	28.83	28.74
Total MIMO Conducted Power (mW/1MHz)		2982.12	3235.19	3165.94	2947.44
Total MIMO Conducted Power (dBm/1MHz)		34.75	35.10	35.01	34.69
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		47.25	47.60	47.51	47.19
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-14.90	-14.55	-14.64	-14.95



Table 7-126. Peak Power Spectral Density Table (B66_20M_1C - Low Channel)

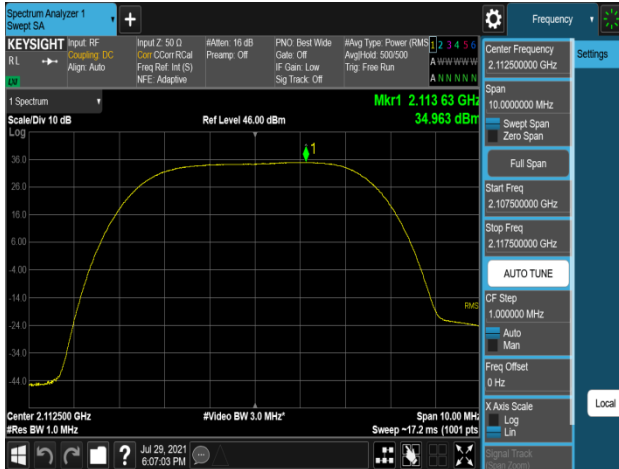
Mid Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	28.63	29.01	28.88	28.58
	1	28.53	29.06	28.62	28.55
	2	28.72	29.24	28.99	28.80
	3	28.64	29.21	28.81	28.68
Total MIMO Conducted Power (mW/1MHz)		2918.00	3273.00	3053.43	2932.72
Total MIMO Conducted Power (dBm/1MHz)		34.65	35.15	34.85	34.67
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		47.15	47.65	47.35	47.17
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-15.00	-14.50	-14.80	-14.98

Table 7-127. Peak Power Spectral Density Table (B66_20M_1C - Mid Channel)

High Channel	Port	QPSK	16QAM	64QAM	256QAM
Conducted Power (dBm/1MHz)	0	28.86	29.39	28.87	29.01
	1	28.75	29.18	28.71	28.89
	2	28.86	29.18	28.91	28.83
	3	28.77	29.33	28.79	28.98
Total MIMO Conducted Power (mW/1MHz)		3039.59	3381.84	3047.73	3123.70
Total MIMO Conducted Power (dBm/1MHz)		34.83	35.29	34.84	34.95
Ant. Gain (dBi)		12.50	12.50	12.50	12.50
MIMO EIRP(dBm/1MHz)		47.33	47.79	47.34	47.45
EIRP Limit(W/1MHz)		1640.00	1640.00	1640.00	1640.00
EIRP Limit(dBm/1MHz)		62.15	62.15	62.15	62.15
Margin (dB)		-14.82	-14.36	-14.81	-14.70

Table 7-128. Peak Power Spectral Density Table (B66_20M_1C - Mid Channel)

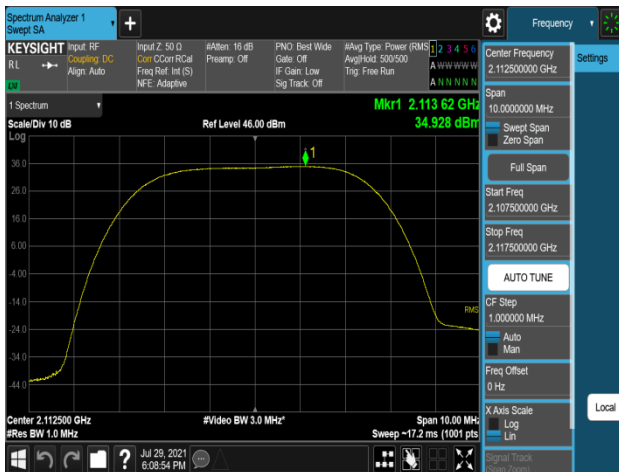
FCC ID: A3LRF4437D-25C		MEASUREMENT REPORT		Approved by: Technical Manager
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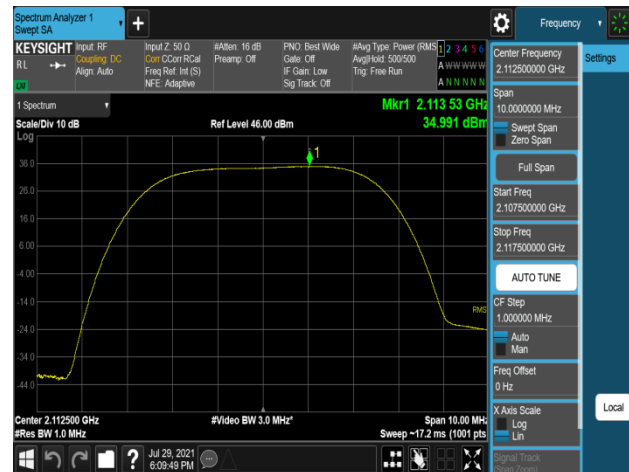
Plot 7-637. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM - Low Channel, Port 0)



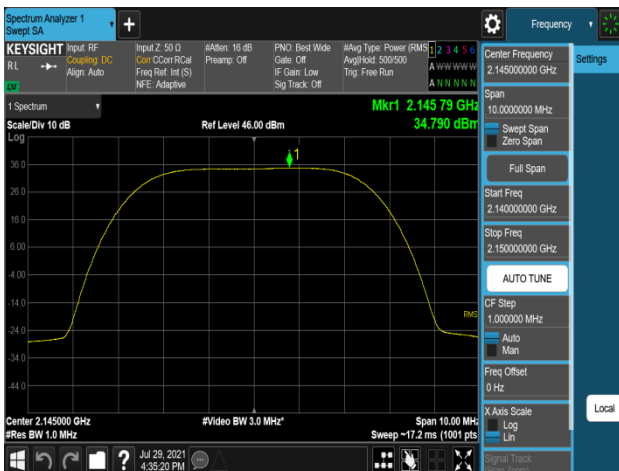
Plot 7-638. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM - Low Channel, Port 1)



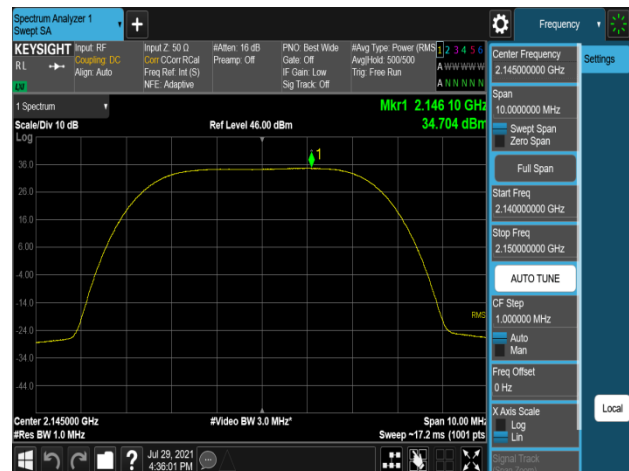
Plot 7-639. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM - Low Channel, Port 2)



Plot 7-640. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM - Low Channel, Port 3)

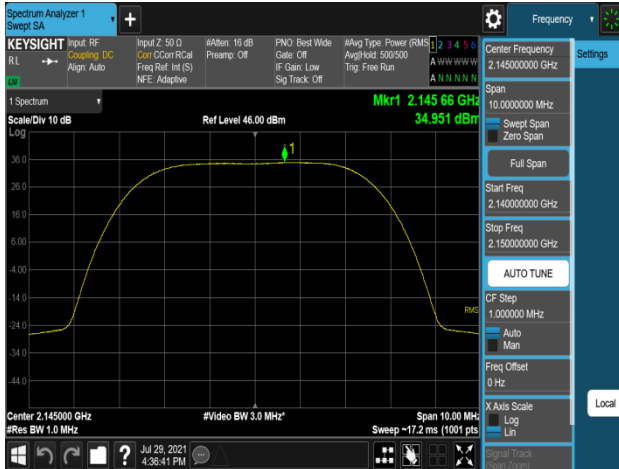


Plot 7-641. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM - Mid Channel, Port 0)

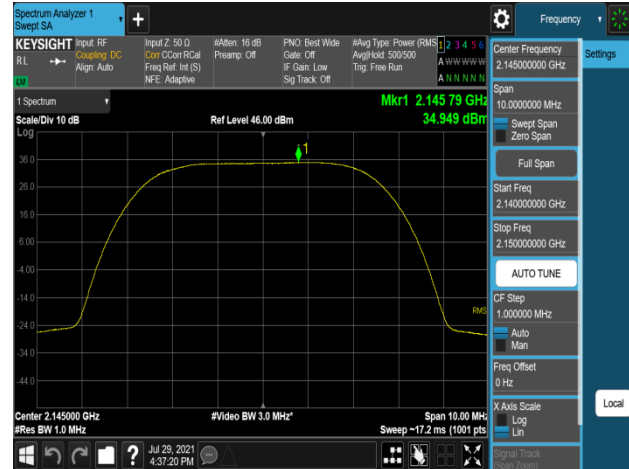


Plot 7-642. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM - Mid Channel, Port 1)

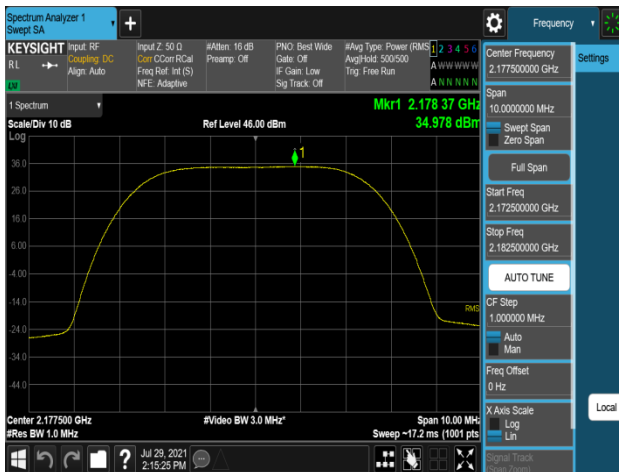
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 175 of 420



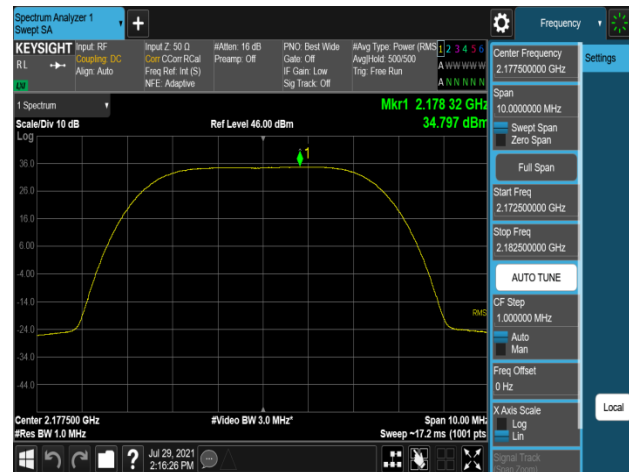
Plot 7-643. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM – Mid Channel, Port 2)



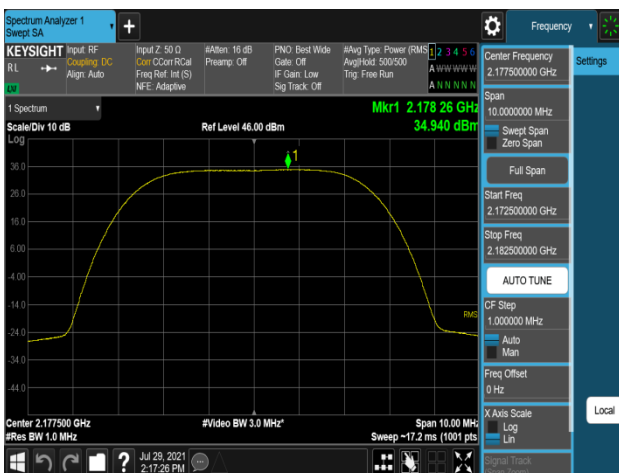
Plot 7-644. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM – Mid Channel, Port 3)



Plot 7-645. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM – High Channel, Port 0)



Plot 7-646. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM – High Channel, Port 1)

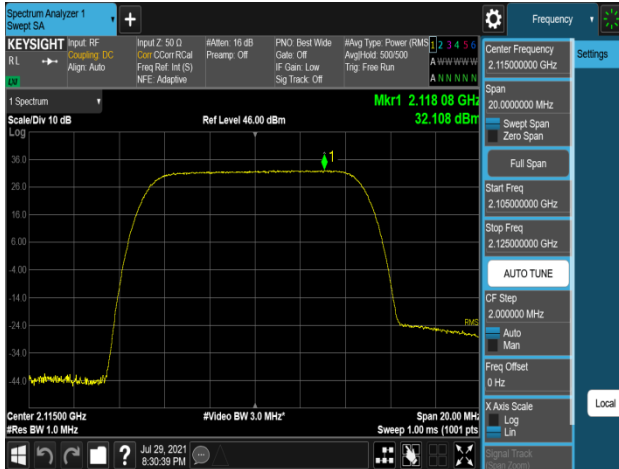


Plot 7-647. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM – High Channel, Port 2)



Plot 7-648. Peak Power Spectral Density Plot
(B66_5M_1C_16QAM – High Channel, Port 3)

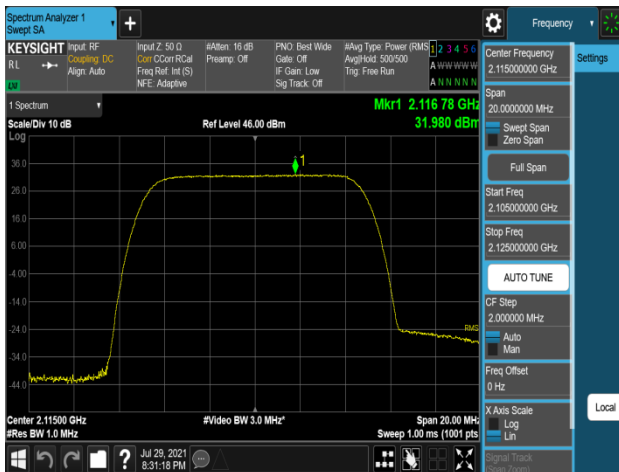
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 176 of 420



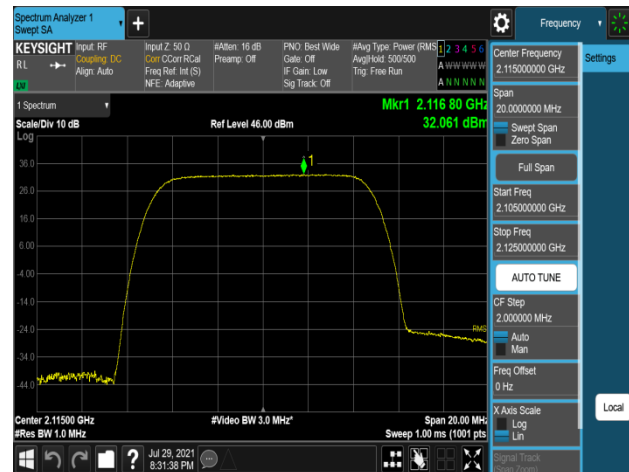
Plot 7-649. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - Low Channel, Port 0)



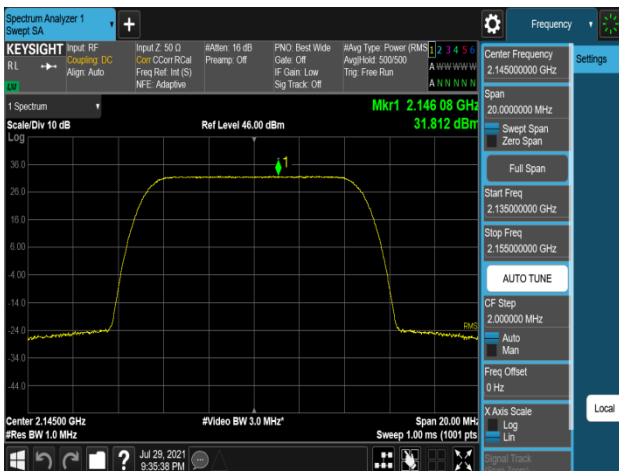
Plot 7-650. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - Low Channel, Port 1)



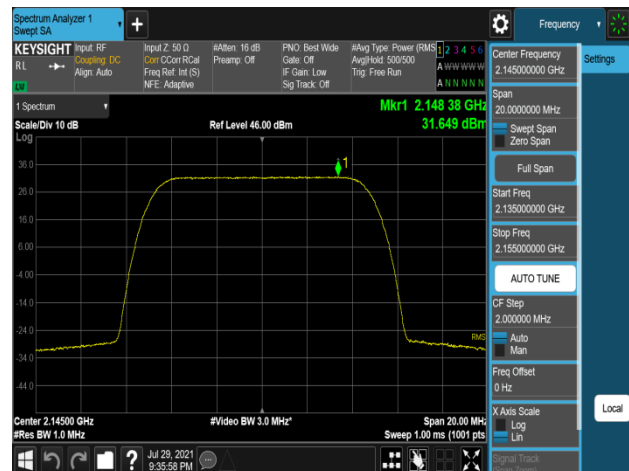
Plot 7-651. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - Low Channel, Port 2)



Plot 7-652. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - Low Channel, Port 3)

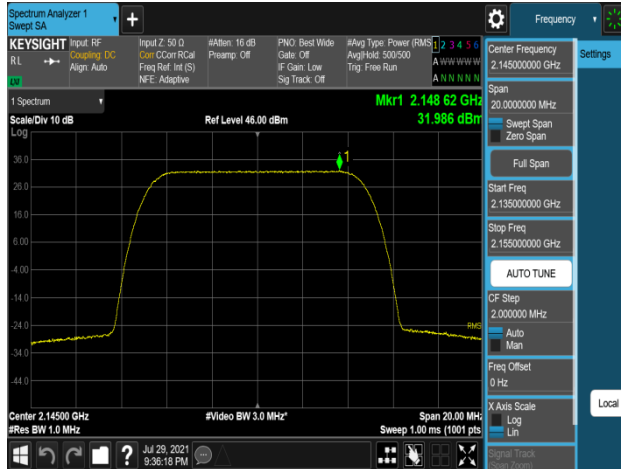


Plot 7-653. Peak Power Spectral Density Plot
(B66_10M_1C_16QAM - Mid Channel, Port 0)

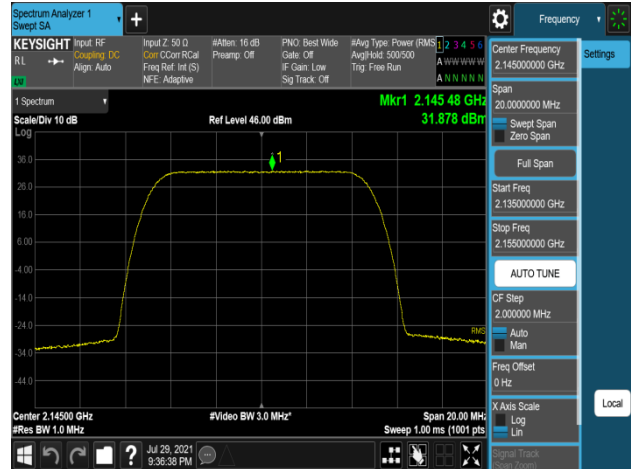


Plot 7-654. Peak Power Spectral Density Plot
(B66_10M_1C_16QAM - Mid Channel, Port 1)

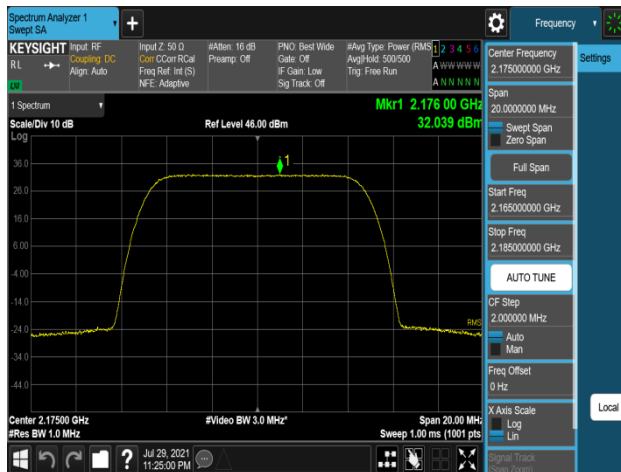
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 177 of 420



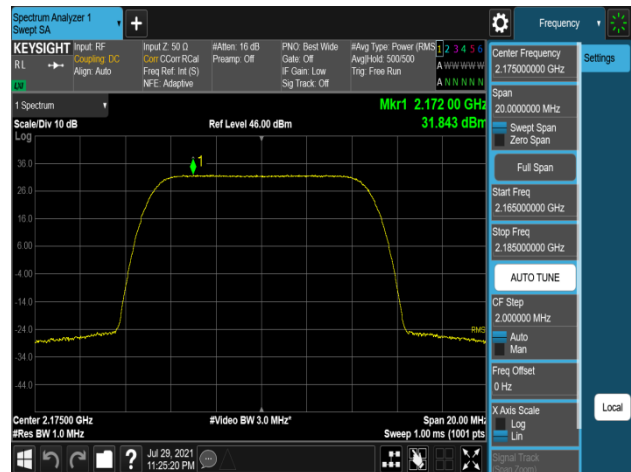
Plot 7-655. Peak Power Spectral Density Plot
(B66_10M_1C_16QAM – Mid Channel, Port 2)



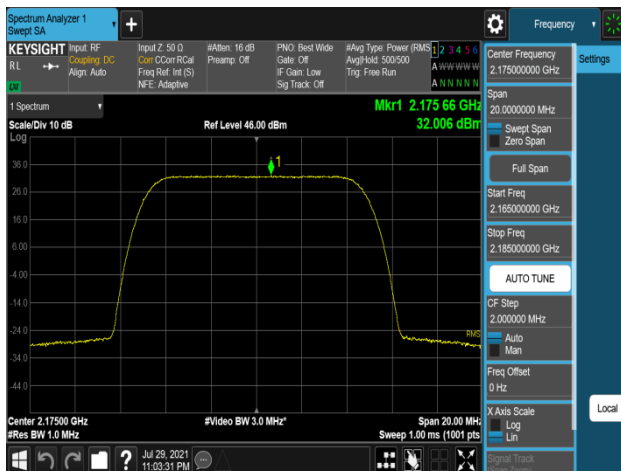
Plot 7-656. Peak Power Spectral Density Plot
(B66_10M_1C_16QAM – Mid Channel, Port 3)



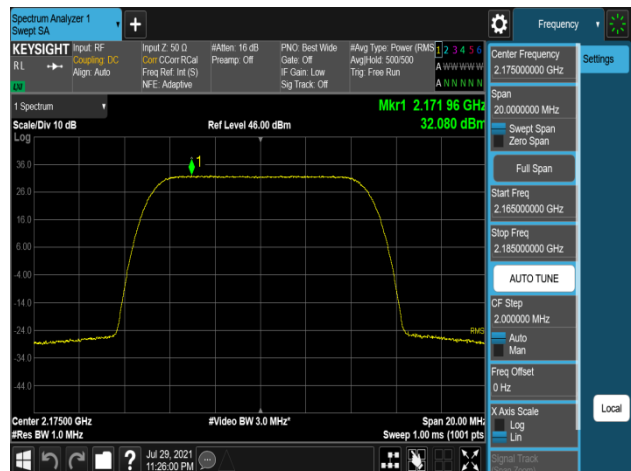
Plot 7-657. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - High Channel, Port 0)



Plot 7-658. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - High Channel, Port 1)

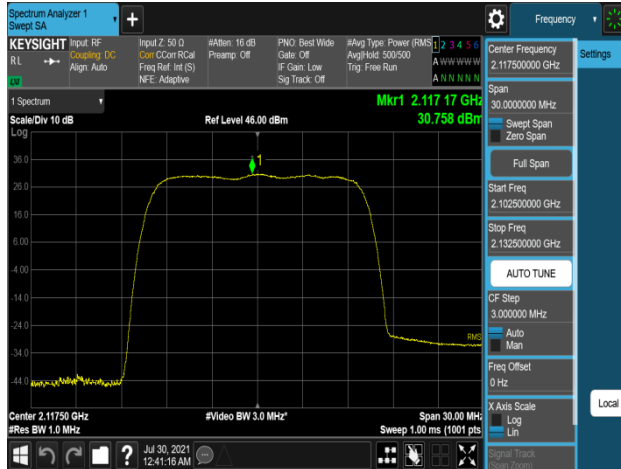


Plot 7-659. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - High Channel, Port 2)

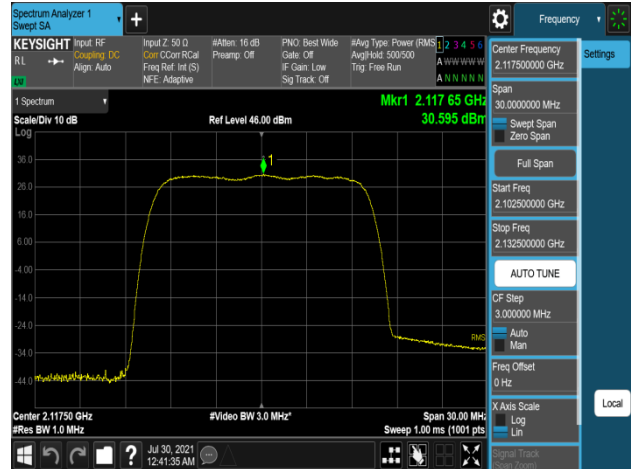


Plot 7-660. Peak Power Spectral Density Plot
(B66_10M_1C_256QAM - High Channel, Port 3)

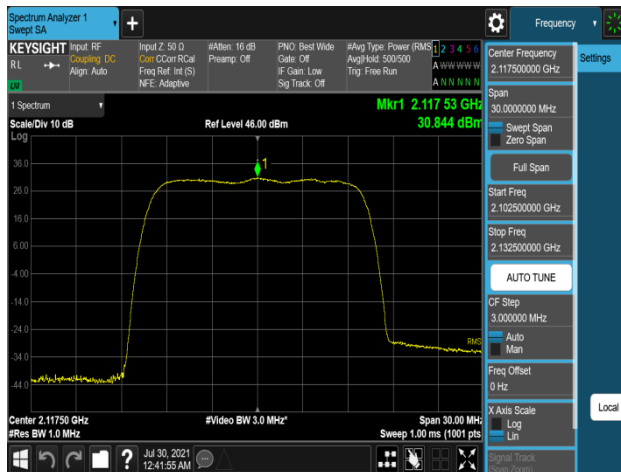
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 178 of 420



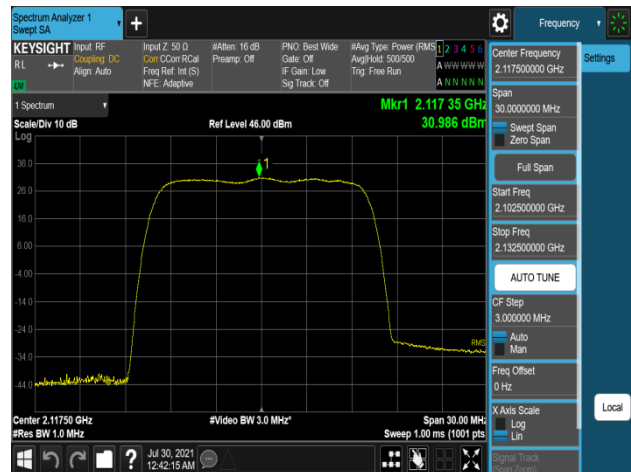
Plot 7-661. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM - Low Channel, Port 0)



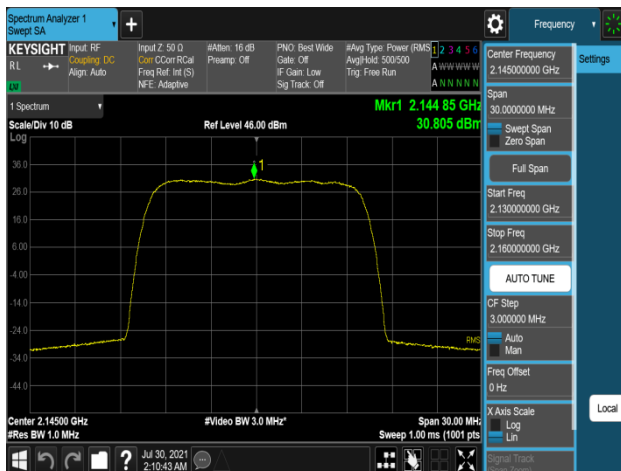
Plot 7-662. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM - Low Channel, Port 1)



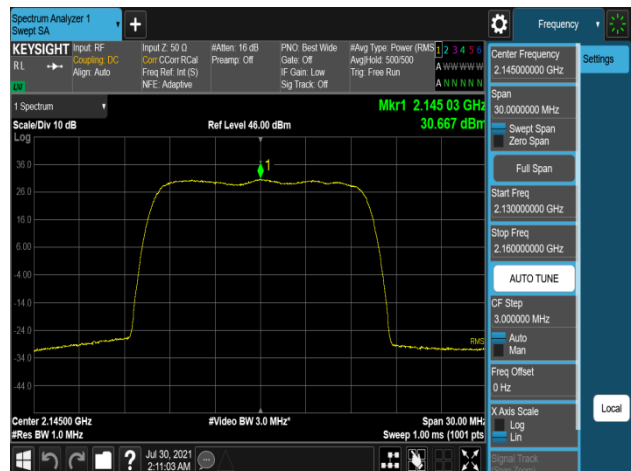
Plot 7-663. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM - Low Channel, Port 2)



Plot 7-664. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM - Low Channel, Port 3)

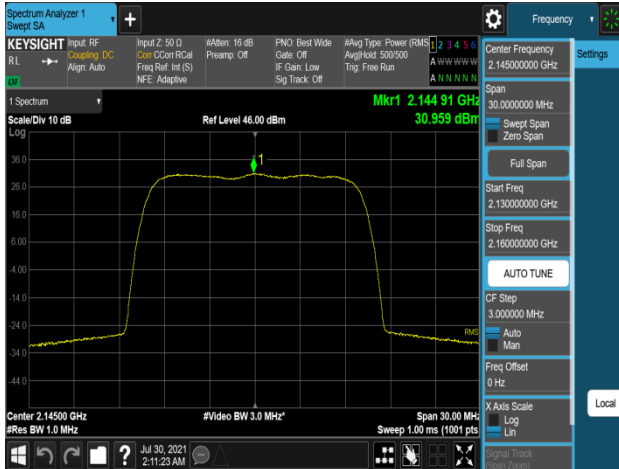


Plot 7-665. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM - Mid Channel, Port 0)

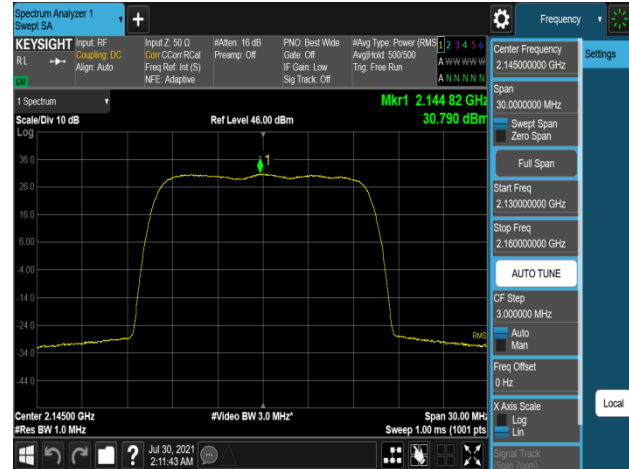


Plot 7-666. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM - Mid Channel, Port 1)

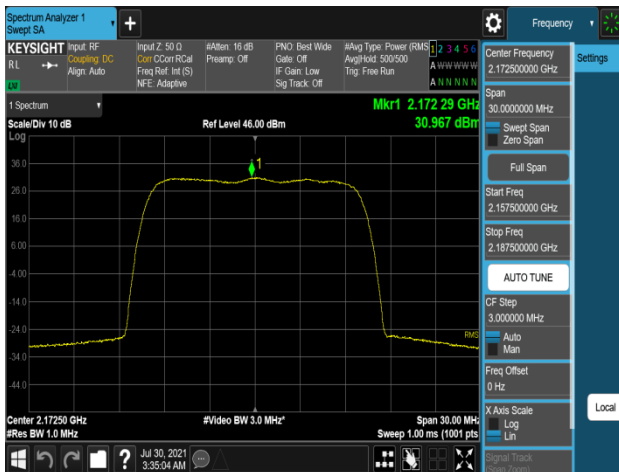
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 179 of 420



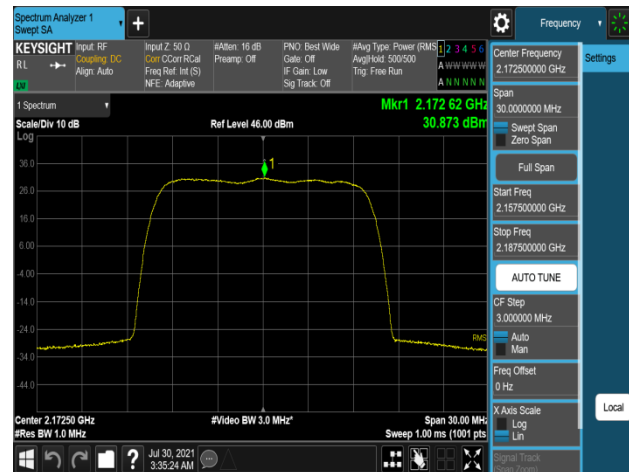
Plot 7-667. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM – Mid Channel, Port 2)



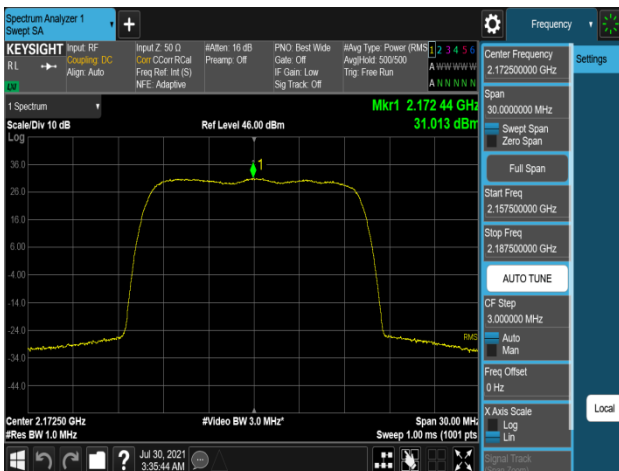
Plot 7-668. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM – Mid Channel, Port 3)



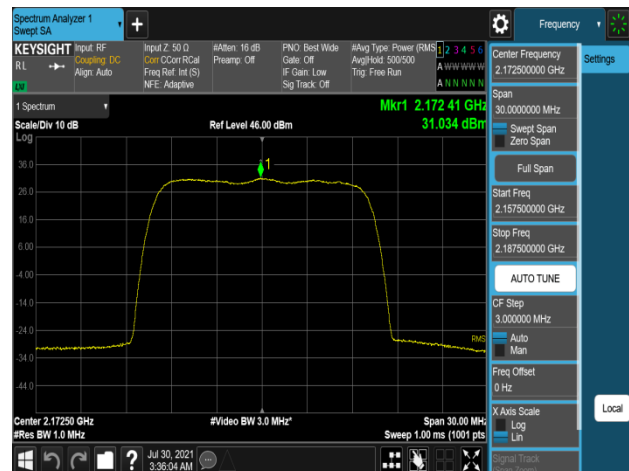
Plot 7-669. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM – High Channel, Port 0)



Plot 7-670. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM – High Channel, Port 1)

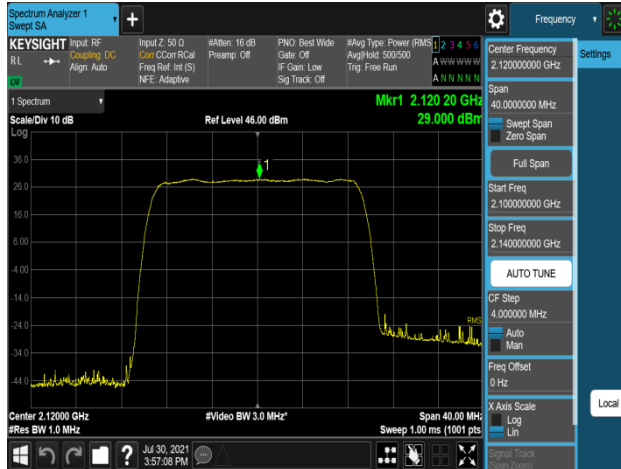


Plot 7-671. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM – High Channel, Port 2)

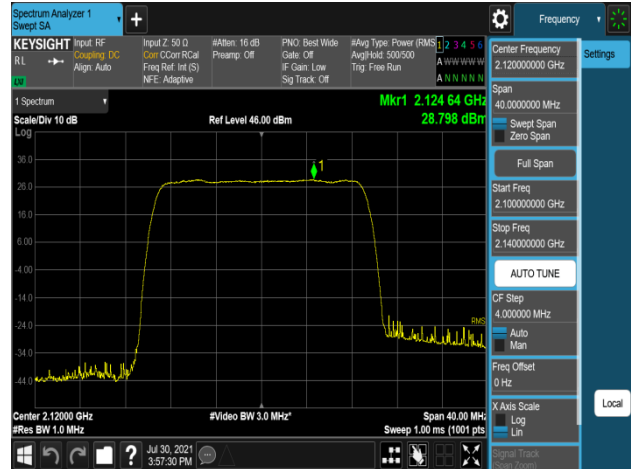


Plot 7-672. Peak Power Spectral Density Plot
(B66_15M_1C_16QAM – High Channel, Port 3)

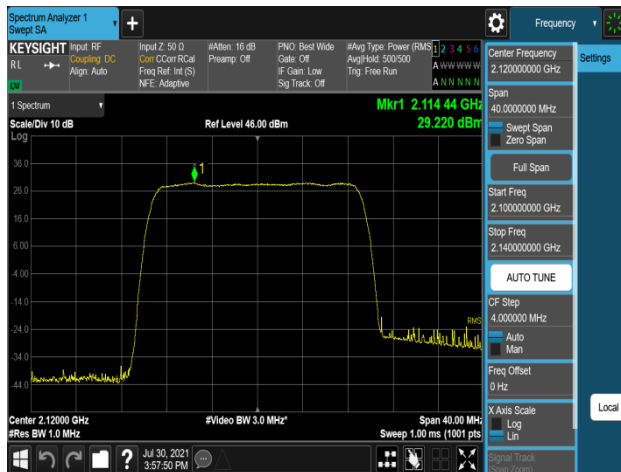
FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 8K21071202-R2.A3L	Test Dates: 07/19/2021-08/13/2021	EUT Type: RRU(RF4437d)		Page 180 of 420



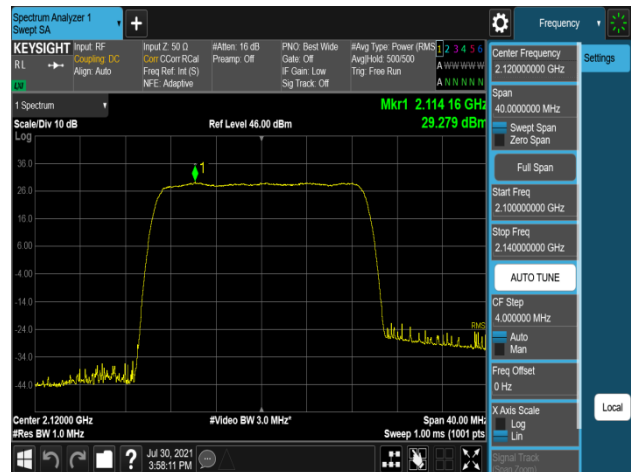
Plot 7-673. Peak Power Spectral Density Plot
(B66_20M_1C_16QAM – Mid Channel, Port 2)



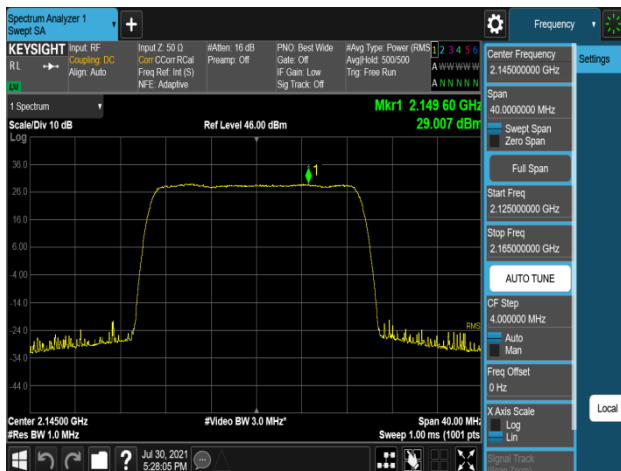
Plot 7-674. Peak Power Spectral Density Plot
(B66_20M_1C_16QAM – Mid Channel, Port 3)



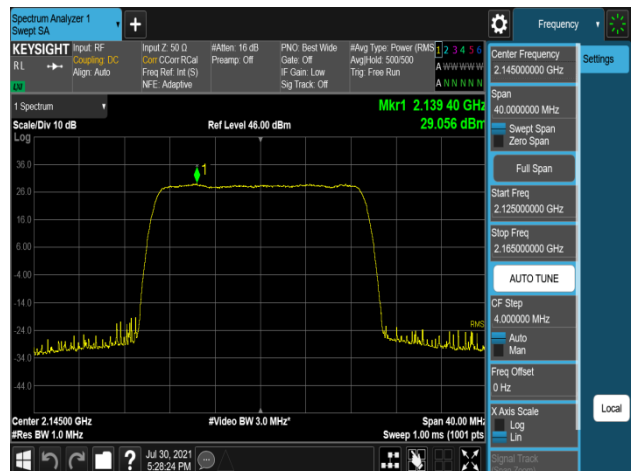
Plot 7-675. Peak Power Spectral Density Plot
(B66_20M_1C_16QAM - High Channel, Port 0)



Plot 7-676. Peak Power Spectral Density Plot
(B66_20M_1C_16QAM - High Channel, Port 1)



Plot 7-677. Peak Power Spectral Density Plot
(B66_20M_1C_16QAM - High Channel, Port 2)



Plot 7-678. Peak Power Spectral Density Plot
(B66_20M_1C_16QAM - High Channel, Port 3)

FCC ID: A3LRF4437D-25C	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
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