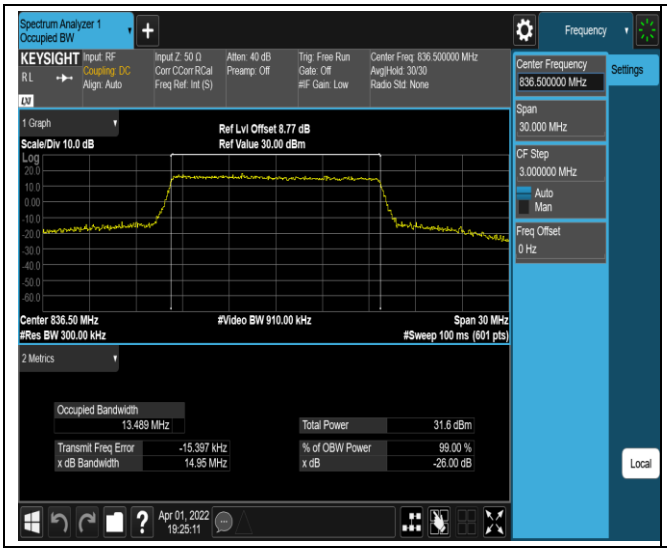
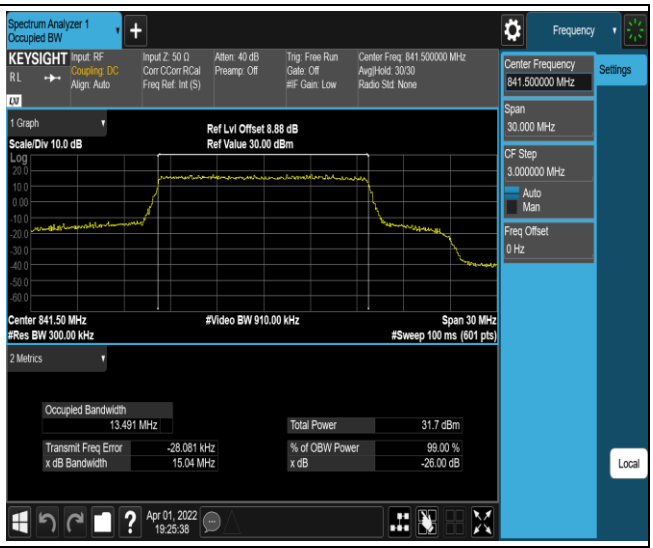
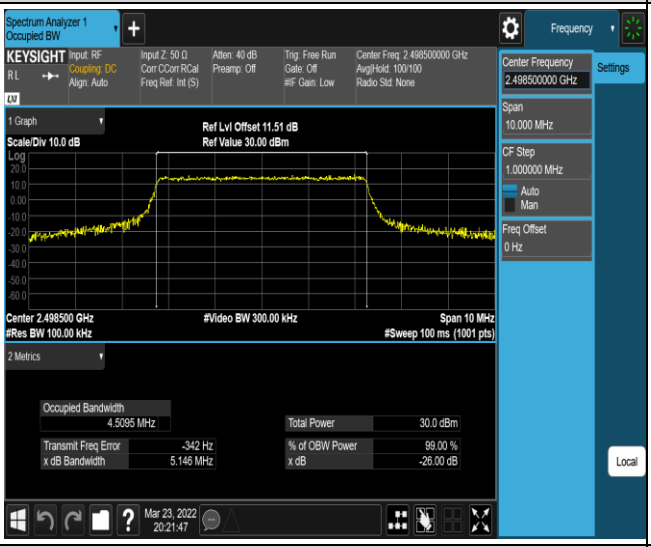


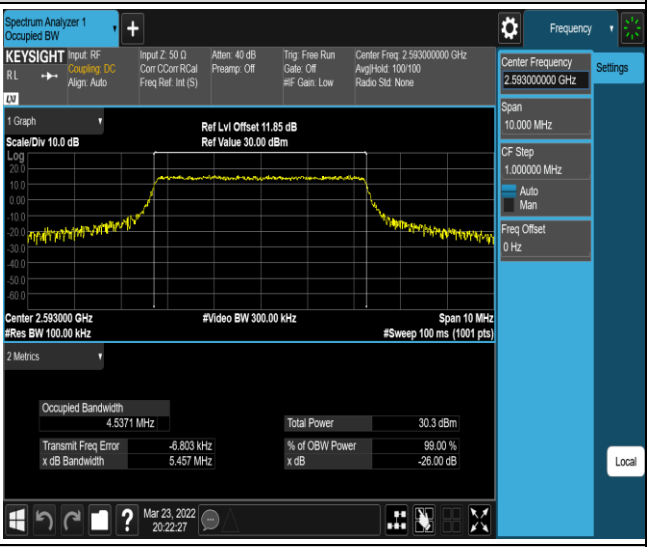
Band41-5MHz-QPSK-39675-25RB#0



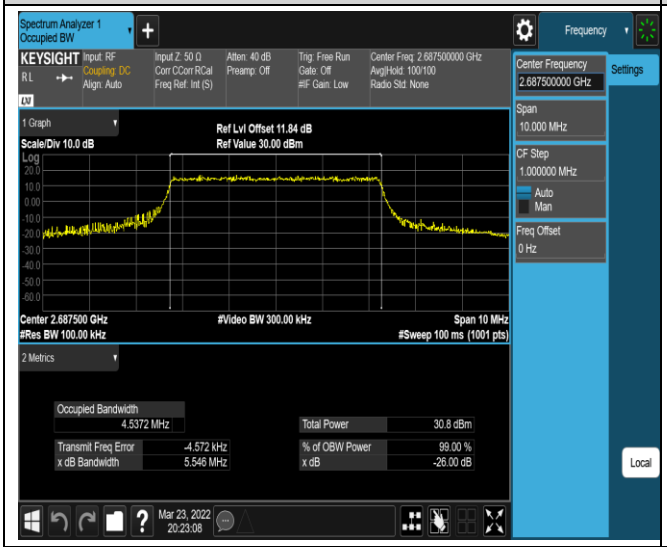
Band41-5MHz-QPSK-40620-25RB#0



Band41-5MHz-QPSK-41565-25RB#0



Band41-5MHz-16QAM-39675-25RB#0



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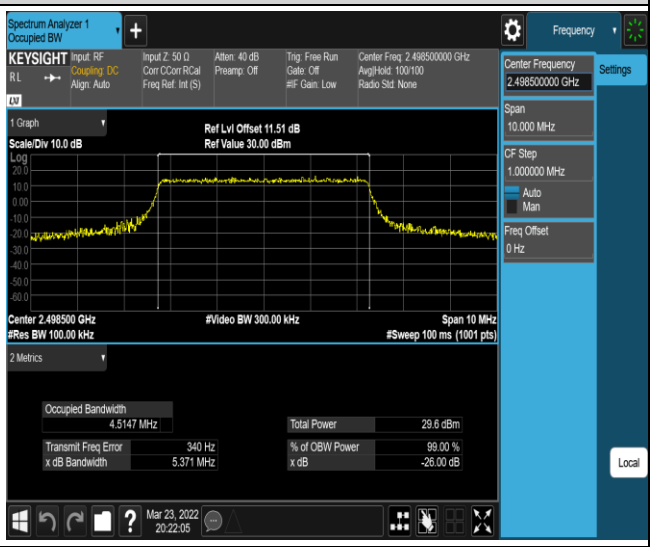
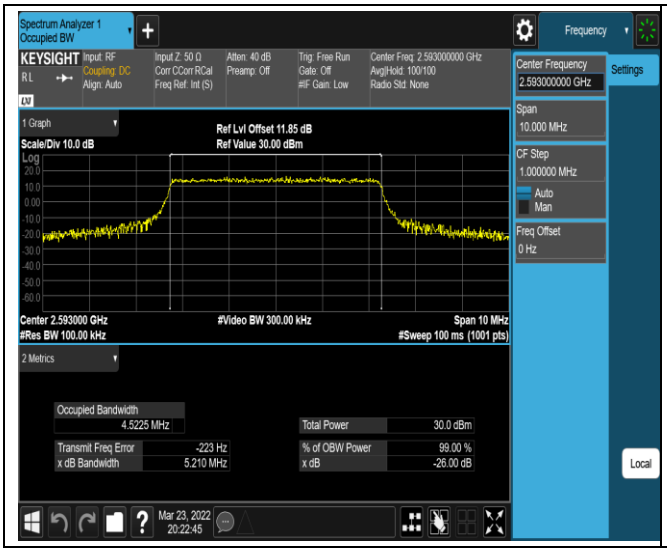
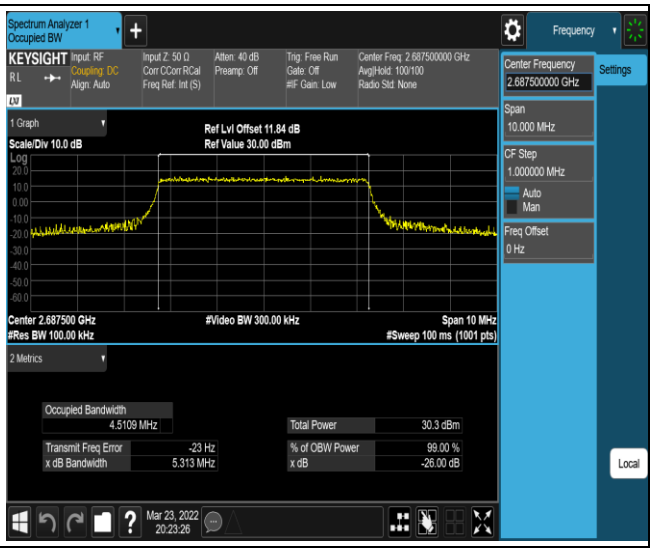


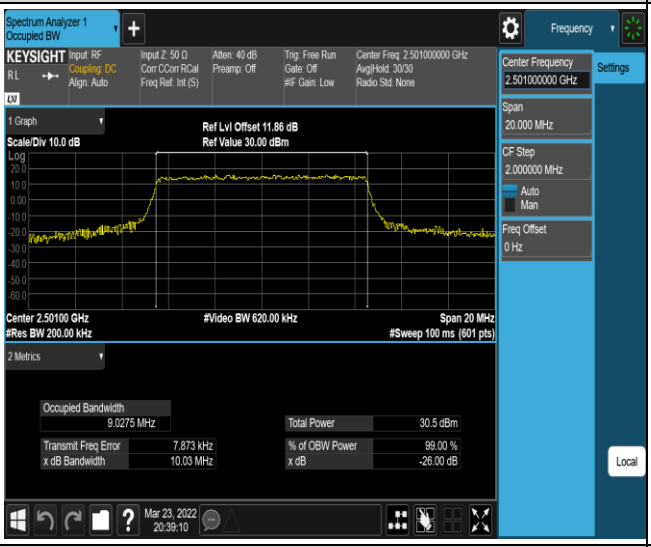
Band41-5MHz-16QAM-41565-25RB#0



Band41-10MHz-QPSK-39700-50RB#0



Band41-10MHz-QPSK-40620-50RB#0



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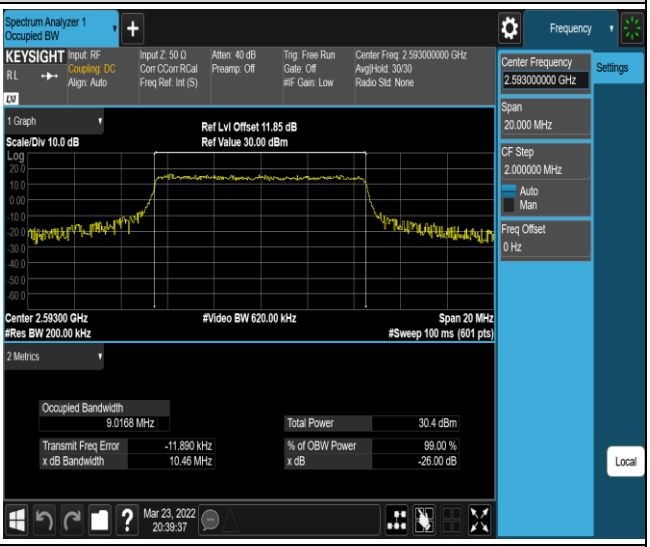
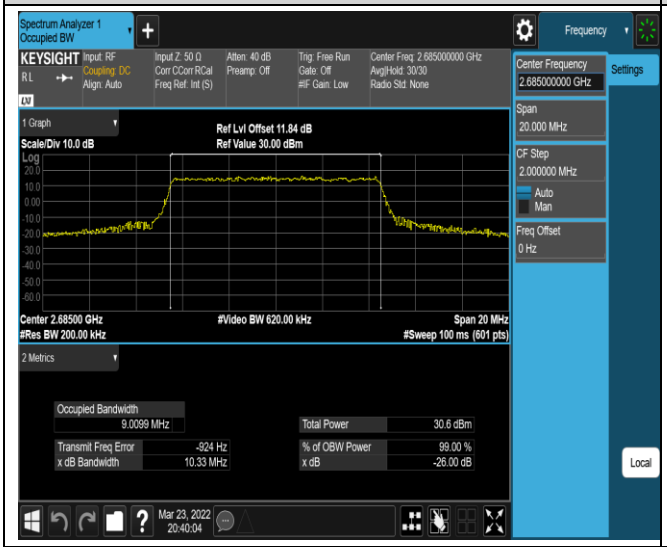
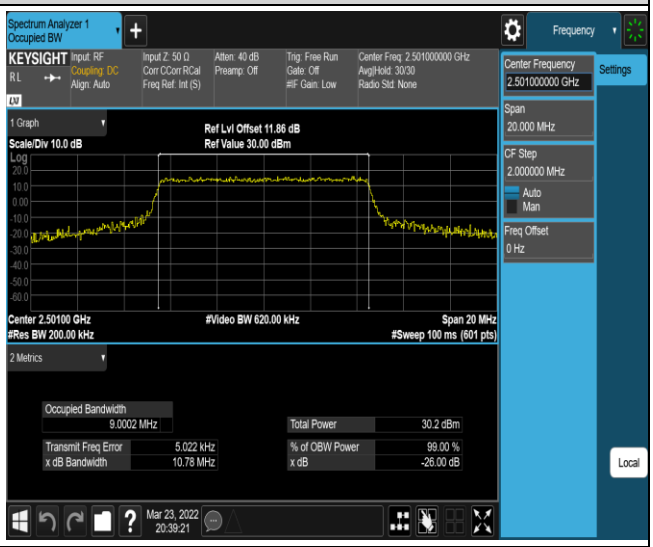


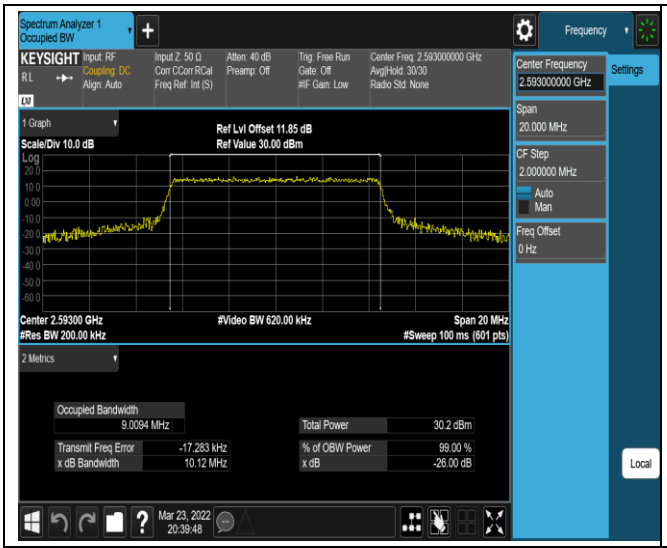
Band41-10MHz-16QAM-39700-50RB#0



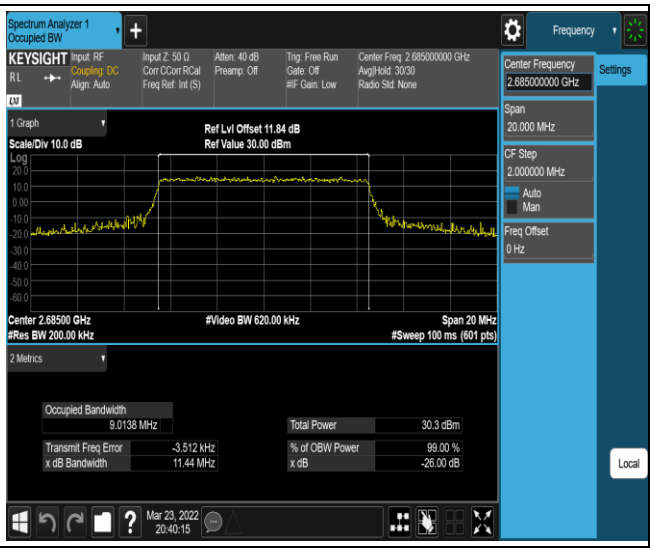
Band41-10MHz-16QAM-40620-50RB#0



Band41-10MHz-16QAM-41540-50RB#0



Band41-15MHz-QPSK-39725-75RB#0



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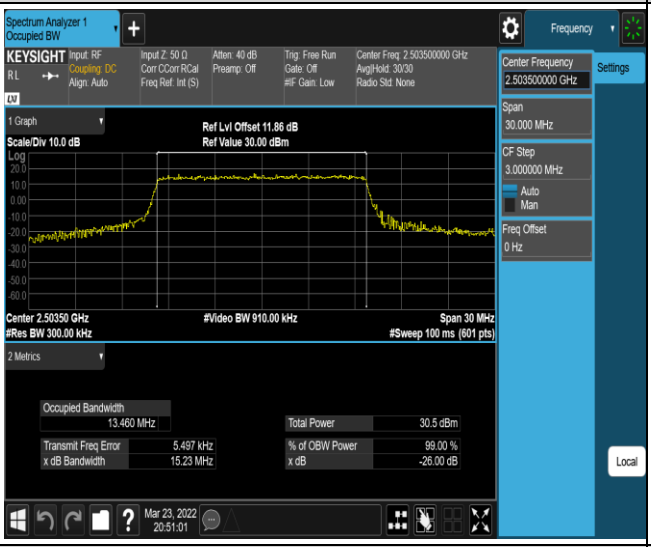

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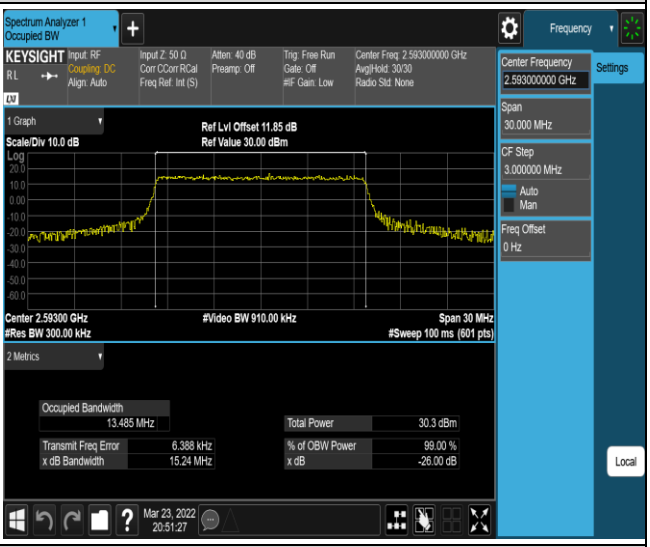

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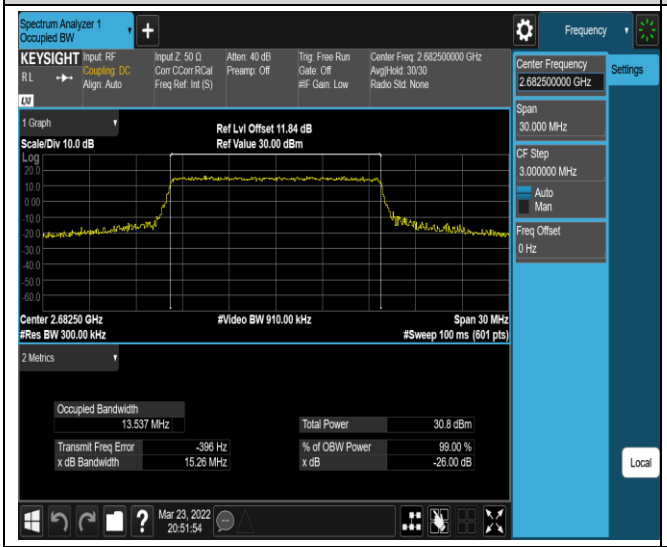

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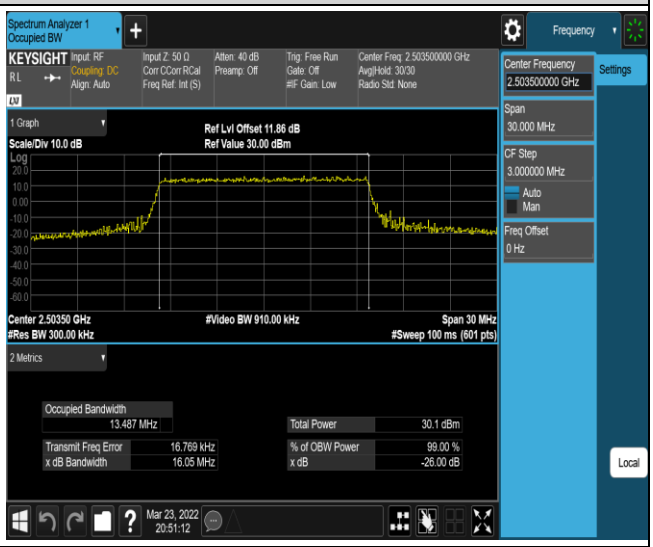
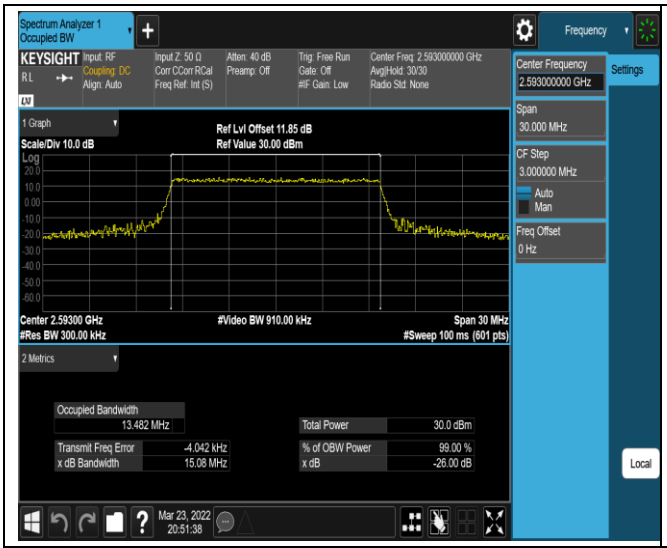
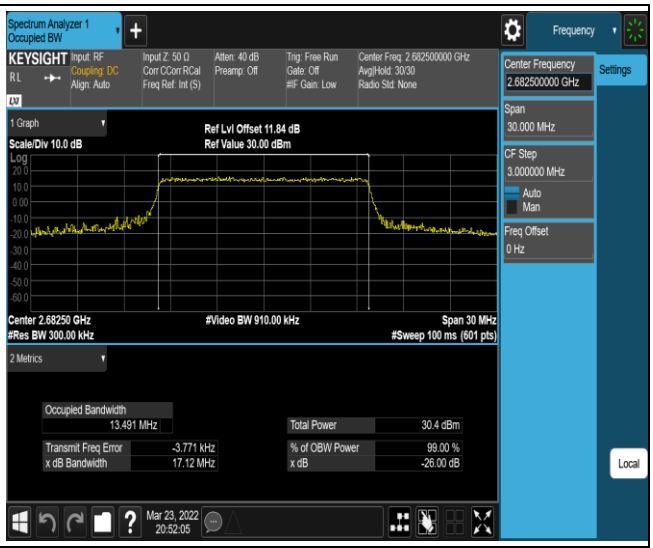


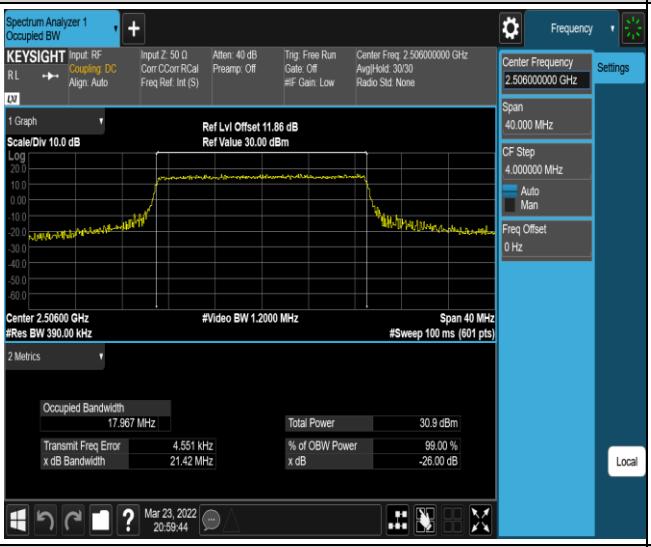
Band41-15MHz-16QAM-41515-75RB#0



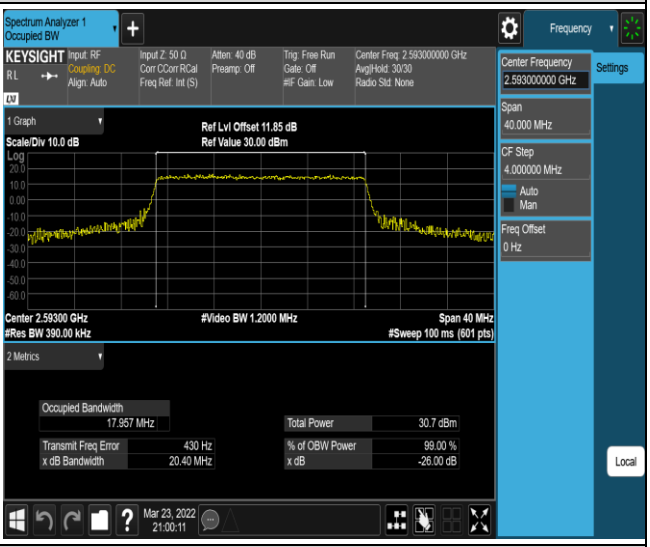
Band41-20MHz-QPSK-39750-100RB#0



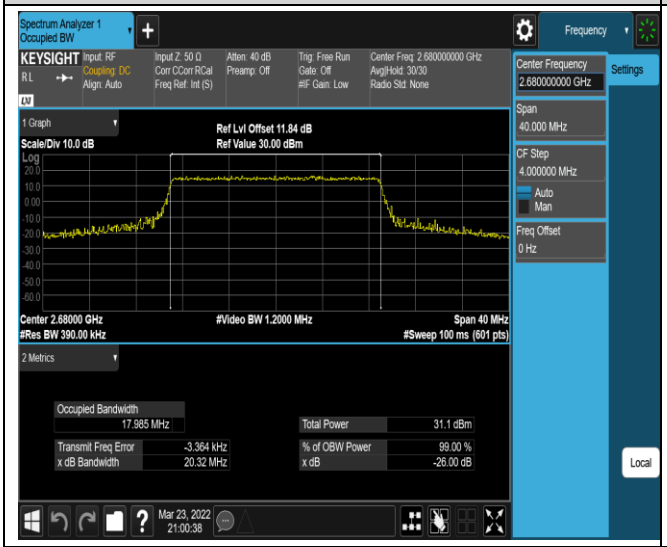
Band41-20MHz-QPSK-40620-100RB#0



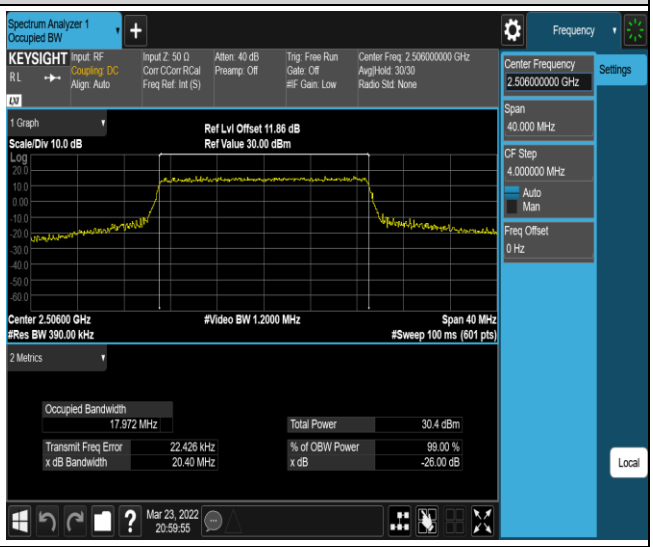
Band41-20MHz-QPSK-41490-100RB#0



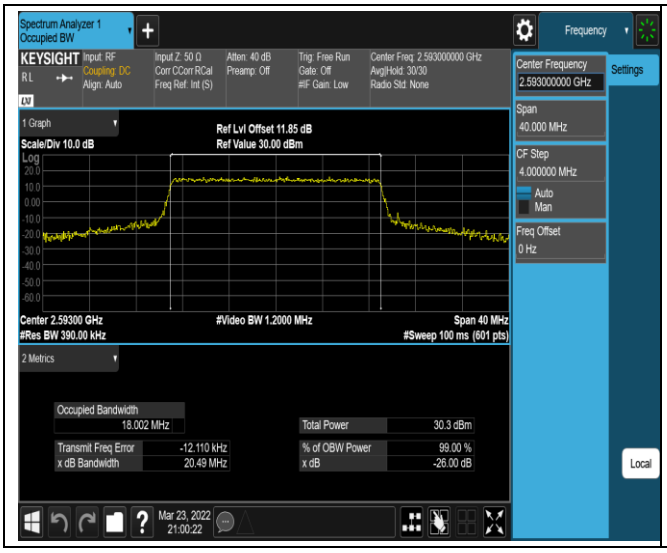
Band41-20MHz-16QAM-39750-100RB#0

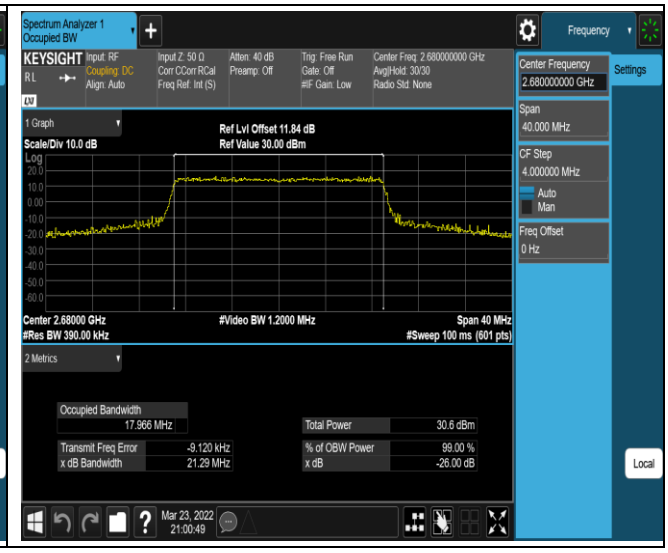


Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-100RB#0


Spectrum Analyzer 1
Occupied BW
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr RCal
Freq Ref: Int (S)
Atten: 40 dB
Preamp: Off
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.593000000 GHz
Avg|Hold: 30/30
Radio Std: None
Center Frequency
2.593000000 GHz
Settings
1 Graph
Ref Lvl Offset 11.85 dB
Ref Value 30.00 dBm
Scale/Div 10.0 dB
Span
40.000 MHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 2.59300 GHz
#Res BW 390.00 kHz
#Video BW 1.2000 MHz
Span 40 MHz
#Sweep 100 ms (601 pts)
2 Metrics
Occupied Bandwidth
18.002 MHz
Total Power
30.3 dBm
Transmit Freq Error
-12.110 kHz
x dB Bandwidth
20.49 MHz
% of OBW Power
99.00 %
x dB
-26.00 dB
Local
Mar 23, 2022
21:00:22


Spectrum Analyzer 1
Occupied BW
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr RCal
Freq Ref: Int (S)
Atten: 40 dB
Preamp: Off
Trig: Free Run
Gate: Off
#IF Gain: Low
Center Freq: 2.680000000 GHz
Avg|Hold: 30/30
Radio Std: None
Center Frequency
2.680000000 GHz
Settings
1 Graph
Ref Lvl Offset 11.84 dB
Ref Value 30.00 dBm
Scale/Div 10.0 dB
Span
40.000 MHz
CF Step
4.000000 MHz
Auto
Man
Freq Offset
0 Hz
Center 2.68000 GHz
#Res BW 390.00 kHz
#Video BW 1.2000 MHz
Span 40 MHz
#Sweep 100 ms (601 pts)
2 Metrics
Occupied Bandwidth
17.966 MHz
Total Power
30.6 dBm
Transmit Freq Error
-9.120 kHz
x dB Bandwidth
21.29 MHz
% of OBW Power
99.00 %
x dB
-26.00 dB
Local
Mar 23, 2022
21:00:49

Appendix D: Band Edge

Test Result (worst case)

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	-33.34,-24.17	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	-45.56,-55.67	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	-32.89,-28.82	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	-54.17,-44.22	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	-23.62,-32.71	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	-27.42,-30.47	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	-34.61,-25.30	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	-46.55,-57.26	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	-36.22,-31.08	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	-55.53,-45.21	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	-24.80,-33.70	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	-29.15,-33.32	PASS
Band2	20MHz	QPSK	18700	1RB#0	-46.82,-43.33	PASS
Band2	20MHz	QPSK	18700	1RB#99	-54.07,-72.57	PASS
Band2	20MHz	QPSK	18700	100RB#0	-31.63,-34.25	PASS
Band2	20MHz	QPSK	19100	1RB#0	-71.52,-53.47	PASS
Band2	20MHz	QPSK	19100	1RB#99	-42.82,-45.66	PASS
Band2	20MHz	QPSK	19100	100RB#0	-32.40,-28.45	PASS
Band2	20MHz	16QAM	18700	1RB#0	-47.53,-43.70	PASS
Band2	20MHz	16QAM	18700	1RB#99	-54.09,-71.32	PASS
Band2	20MHz	16QAM	18700	100RB#0	-34.27,-36.76	PASS
Band2	20MHz	16QAM	19100	1RB#0	-71.42,-53.43	PASS
Band2	20MHz	16QAM	19100	1RB#99	-42.76,-46.43	PASS
Band2	20MHz	16QAM	19100	100RB#0	-34.48,-30.48	PASS
Band4	1.4MHz	QPSK	19957	1RB#0	-31.98,-22.23	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	-45.08,-53.85	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-31.66,-26.40	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-52.34,-45.11	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-22.69,-32.04	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-27.53,-31.55	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-32.89,-24.12	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-45.88,-55.52	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-33.17,-28.06	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-54.71,-46.13	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-23.67,-33.43	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-29.22,-33.44	PASS

Band4	20MHz	QPSK	20050	1RB#0	-45.64,-41.62	PASS
Band4	20MHz	QPSK	20050	1RB#99	-54.00,-72.10	PASS
Band4	20MHz	QPSK	20050	100RB#0	-29.03,-31.97	PASS
Band4	20MHz	QPSK	20300	1RB#0	-70.99,-53.18	PASS
Band4	20MHz	QPSK	20300	1RB#99	-40.55,-46.44	PASS
Band4	20MHz	QPSK	20300	100RB#0	-28.81,-25.05	PASS
Band4	20MHz	16QAM	20050	1RB#0	-47.27,-41.93	PASS
Band4	20MHz	16QAM	20050	1RB#99	-54.01,-71.62	PASS
Band4	20MHz	16QAM	20050	100RB#0	-32.06,-35.18	PASS
Band4	20MHz	16QAM	20300	1RB#0	-71.12,-53.42	PASS
Band4	20MHz	16QAM	20300	1RB#99	-42.01,-47.09	PASS
Band4	20MHz	16QAM	20300	100RB#0	-30.06,-26.60	PASS
Band7	5MHz	QPSK	20775	1RB#0	-46.92,-46.81,-29.06,-25.14	PASS
Band7	5MHz	QPSK	20775	1RB#24	-49.93,-49.81,-45.46,-60.02	PASS
Band7	5MHz	QPSK	20775	25RB#0	-39.62,-36.63,-27.62,-29.37	PASS
Band7	5MHz	QPSK	21425	1RB#0	-62.00,-44.13,-50.40,-50.50	PASS
Band7	5MHz	QPSK	21425	1RB#24	-27.65,-29.32,-45.45,-45.75	PASS
Band7	5MHz	QPSK	21425	25RB#0	-27.59,-24.01,-37.51,-39.46	PASS
Band7	5MHz	16QAM	20775	1RB#0	-46.25,-46.24,-31.41,-27.69	PASS
Band7	5MHz	16QAM	20775	1RB#24	-50.13,-49.83,-45.91,-61.74	PASS
Band7	5MHz	16QAM	20775	25RB#0	-39.21,-35.93,-28.59,-31.49	PASS
Band7	5MHz	16QAM	21425	1RB#0	-61.88,-44.84,-50.51,-50.71	PASS
Band7	5MHz	16QAM	21425	1RB#24	-26.98,-31.37,-45.33,-45.44	PASS
Band7	5MHz	16QAM	21425	25RB#0	-29.70,-25.69,-37.40,-38.89	PASS
Band7	20MHz	QPSK	20850	1RB#0	-47.13,-42.25,-38.53	PASS
Band7	20MHz	QPSK	20850	1RB#99	-50.40,-50.19,-65.24	PASS
Band7	20MHz	QPSK	20850	100RB#0	-33.78,-29.20,-26.98,-29.76	PASS
Band7	20MHz	QPSK	21350	1RB#0	-49.14,-50.74,-51.12,-51.46	PASS
Band7	20MHz	QPSK	21350	1RB#99	-38.13,-42.10,-44.94,-51.39	PASS
Band7	20MHz	QPSK	21350	100RB#0	-29.02,-26.47,-31.87,-50.72	PASS
Band7	20MHz	16QAM	20850	1RB#0	-47.25,-43.06,-38.84	PASS
Band7	20MHz	16QAM	20850	1RB#99	-50.44,-50.35,-66.02	PASS
Band7	20MHz	16QAM	20850	100RB#0	-35.06,-31.58,-29.30,-32.16	PASS
Band7	20MHz	16QAM	21350	1RB#0	-65.98,-50.74,-51.27,-51.42	PASS
Band7	20MHz	16QAM	21350	1RB#99	-38.77,-43.29,-44.75,-51.44	PASS
Band7	20MHz	16QAM	21350	100RB#0	-31.16,-28.71,-32.70,-50.68	PASS
Band12	1.4MHz	QPSK	23017	1RB#0	-29.62,-20.64	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	-49.50,-45.27	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	-30.54,-26.87	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	-45.68,-49.48	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	-20.87,-30.01	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	-27.64,-30.26	PASS

Band12	1.4MHz	16QAM	23017	1RB#0	-31.64,-22.45	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	-51.10,-46.65	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	-32.52,-28.69	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	-46.87,-51.27	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	-22.37,-31.27	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	-29.42,-32.85	PASS
Band12	10MHz	QPSK	23060	1RB#0	-40.93,-36.82	PASS
Band12	10MHz	QPSK	23060	1RB#49	-63.40,-70.59	PASS
Band12	10MHz	QPSK	23060	50RB#0	-33.58,-36.02	PASS
Band12	10MHz	QPSK	23130	1RB#0	-70.45,-62.84	PASS
Band12	10MHz	QPSK	23130	1RB#49	-36.50,-40.84	PASS
Band12	10MHz	QPSK	23130	50RB#0	-37.42,-34.98	PASS
Band12	10MHz	16QAM	23060	1RB#0	-42.38,-38.06	PASS
Band12	10MHz	16QAM	23060	1RB#49	-63.07,-69.98	PASS
Band12	10MHz	16QAM	23060	50RB#0	-35.00,-37.58	PASS
Band12	10MHz	16QAM	23130	1RB#0	-69.97,-64.45	PASS
Band12	10MHz	16QAM	23130	1RB#49	-37.74,-41.85	PASS
Band12	10MHz	16QAM	23130	50RB#0	-38.17,-36.17	PASS
Band17	5MHz	QPSK	23755	1RB#0	-36.05,-29.36	PASS
Band17	5MHz	QPSK	23755	1RB#24	-55.02,-62.85	PASS
Band17	5MHz	QPSK	23755	25RB#0	-29.95,-32.05	PASS
Band17	5MHz	QPSK	23825	1RB#0	-62.06,-55.38	PASS
Band17	5MHz	QPSK	23825	1RB#24	-29.48,-37.27	PASS
Band17	5MHz	QPSK	23825	25RB#0	-31.41,-29.08	PASS
Band17	5MHz	16QAM	23755	1RB#0	-37.56,-30.85	PASS
Band17	5MHz	16QAM	23755	1RB#24	-56.23,-63.72	PASS
Band17	5MHz	16QAM	23755	25RB#0	-31.50,-33.10	PASS
Band17	5MHz	16QAM	23825	1RB#0	-62.62,-56.34	PASS
Band17	5MHz	16QAM	23825	1RB#24	-32.03,-39.11	PASS
Band17	5MHz	16QAM	23825	25RB#0	-32.77,-30.26	PASS
Band17	10MHz	QPSK	23780	1RB#0	-40.53,-36.71	PASS
Band17	10MHz	QPSK	23780	1RB#49	-62.86,-70.66	PASS
Band17	10MHz	QPSK	23780	50RB#0	-35.02,-37.14	PASS
Band17	10MHz	QPSK	23800	1RB#0	-70.59,-64.16	PASS
Band17	10MHz	QPSK	23800	1RB#49	-36.58,-40.03	PASS
Band17	10MHz	QPSK	23800	50RB#0	-37.00,-34.46	PASS
Band17	10MHz	16QAM	23780	1RB#0	-41.55,-37.48	PASS
Band17	10MHz	16QAM	23780	1RB#49	-62.26,-70.38	PASS
Band17	10MHz	16QAM	23780	50RB#0	-36.52,-38.15	PASS
Band17	10MHz	16QAM	23800	1RB#0	-69.97,-63.98	PASS
Band17	10MHz	16QAM	23800	1RB#49	-37.73,-42.31	PASS
Band17	10MHz	16QAM	23800	50RB#0	-38.01,-35.79	PASS

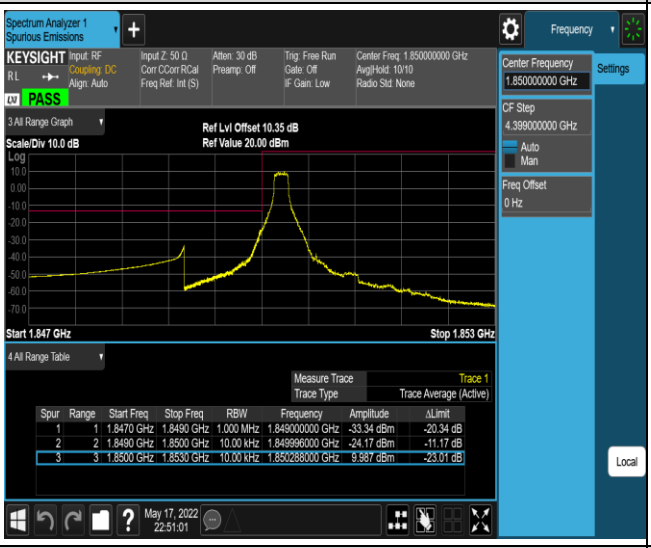
Band26	1.4MHz	QPSK	26697	1RB#0	-30.80,-24.94	PASS
Band26	1.4MHz	QPSK	26697	1RB#5	-52.00,-51.63	PASS
Band26	1.4MHz	QPSK	26697	6RB#0	-34.69,-30.20	PASS
Band26	1.4MHz	QPSK	26783	1RB#0	-50.91,-51.30	PASS
Band26	1.4MHz	QPSK	26783	1RB#5	-23.85,-28.70	PASS
Band26	1.4MHz	QPSK	26783	6RB#0	-29.57,-33.05	PASS
Band26	1.4MHz	QPSK	26797	1RB#0	-53.01,-24.01	PASS
Band26	1.4MHz	QPSK	26797	1RB#5	-57.84,-55.62	PASS
Band26	1.4MHz	QPSK	26797	6RB#0	-45.98,-29.45	PASS
Band26	1.4MHz	QPSK	27033	1RB#0	-57.15,-58.88	PASS
Band26	1.4MHz	QPSK	27033	1RB#5	-25.17,-54.22	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	-30.10,-45.40	PASS
Band26	1.4MHz	16QAM	26697	1RB#0	-31.15,-25.45	PASS
Band26	1.4MHz	16QAM	26697	1RB#5	-53.03,-52.89	PASS
Band26	1.4MHz	16QAM	26697	6RB#0	-34.88,-30.88	PASS
Band26	1.4MHz	16QAM	26783	1RB#0	-51.99,-52.43	PASS
Band26	1.4MHz	16QAM	26783	1RB#5	-24.49,-29.36	PASS
Band26	1.4MHz	16QAM	26783	6RB#0	-30.68,-32.85	PASS
Band26	1.4MHz	16QAM	26797	1RB#0	-54.14,-24.89	PASS
Band26	1.4MHz	16QAM	26797	1RB#5	-58.30,-56.89	PASS
Band26	1.4MHz	16QAM	26797	6RB#0	-44.92,-29.56	PASS
Band26	1.4MHz	16QAM	27033	1RB#0	-58.04,-59.59	PASS
Band26	1.4MHz	16QAM	27033	1RB#5	-25.89,-54.93	PASS
Band26	1.4MHz	16QAM	27033	6RB#0	-31.29,-44.56	PASS
Band26	10MHz	QPSK	26740	1RB#0	-38.60,-41.38,-74.57,-65.17	PASS
Band26	10MHz	QPSK	26740	1RB#49	-64.04,-73.88,-41.04,-38.57	PASS
Band26	10MHz	QPSK	26740	50RB#0	-31.14,-26.18,-24.90,-30.57	PASS
Band26	10MHz	16QAM	26740	1RB#0	-40.70,-41.94,-73.84,-65.19	PASS
Band26	10MHz	16QAM	26740	1RB#49	-64.26,-73.00,-41.36,-40.54	PASS
Band26	10MHz	16QAM	26740	50RB#0	-32.27,-27.22,-26.54,-31.90	PASS
Band26	15MHz	QPSK	26865	1RB#0	-54.98,-39.62	PASS
Band26	15MHz	QPSK	26865	1RB#74	-53.11,-71.28	PASS
Band26	15MHz	QPSK	26865	75RB#0	-34.11,-27.34	PASS
Band26	15MHz	QPSK	26965	1RB#0	-72.80,-55.52	PASS
Band26	15MHz	QPSK	26965	1RB#74	-39.85,-56.17	PASS
Band26	15MHz	QPSK	26965	75RB#0	-22.81,-29.52	PASS
Band26	15MHz	16QAM	26865	1RB#0	-55.83,-40.45	PASS
Band26	15MHz	16QAM	26865	1RB#74	-53.73,-72.52	PASS
Band26	15MHz	16QAM	26865	75RB#0	-36.79,-31.23	PASS
Band26	15MHz	16QAM	26965	1RB#0	-73.85,-55.87	PASS
Band26	15MHz	16QAM	26965	1RB#74	-40.71,-57.44	PASS
Band26	15MHz	16QAM	26965	75RB#0	-27.12,-33.67	PASS

Band41	5MHz	QPSK	39675	1RB#0	-50.16,-50.00,-28.75,-28.87	PASS
Band41	5MHz	QPSK	39675	1RB#24	-50.67,-50.49,-49.72,-57.26	PASS
Band41	5MHz	QPSK	39675	25RB#0	-40.31,-37.35,-21.17,-25.67	PASS
Band41	5MHz	QPSK	41565	1RB#0	-57.14,-48.35,-50.90,-50.92	PASS
Band41	5MHz	QPSK	41565	1RB#24	-30.97,-37.80,-50.02,-49.63	PASS
Band41	5MHz	QPSK	41565	25RB#0	-22.27,-19.20,-34.68,-37.30	PASS
Band41	5MHz	16QAM	39675	1RB#0	-50.31,-50.02,-33.12,-28.91	PASS
Band41	5MHz	16QAM	39675	1RB#24	-50.65,-50.63,-49.98,-57.60	PASS
Band41	5MHz	16QAM	39675	25RB#0	-40.04,-37.60,-22.19,-27.10	PASS
Band41	5MHz	16QAM	41565	1RB#0	-56.32,-48.08,-50.94,-50.92	PASS
Band41	5MHz	16QAM	41565	1RB#24	-27.70,-38.31,-49.77,-49.78	PASS
Band41	5MHz	16QAM	41565	25RB#0	-28.53,-21.47,-37.58,-38.83	PASS
Band41	20MHz	QPSK	39750	1RB#0	-51.10,-50.50,-45.49,-41.38	PASS
Band41	20MHz	QPSK	39750	1RB#99	-51.09,-50.70,-50.93,-68.19	PASS
Band41	20MHz	QPSK	39750	100RB#0	-48.22,-28.85,-25.60,-29.37	PASS
Band41	20MHz	QPSK	41490	1RB#0	-69.05,-51.38,-51.17,-51.61	PASS
Band41	20MHz	QPSK	41490	1RB#99	-43.86,-45.86,-49.78,-51.54	PASS
Band41	20MHz	QPSK	41490	100RB#0	-29.44,-25.21,-27.99,-43.48	PASS
Band41	20MHz	16QAM	39750	1RB#0	-51.08,-50.46,-46.04,-42.84	PASS
Band41	20MHz	16QAM	39750	1RB#99	-51.12,-50.80,-50.91,-68.51	PASS
Band41	20MHz	16QAM	39750	100RB#0	-47.11,-31.13,-28.27,-31.74	PASS
Band41	20MHz	16QAM	41490	1RB#0	-68.82,-51.38,-51.22,-51.58	PASS
Band41	20MHz	16QAM	41490	1RB#99	-44.35,-46.25,-49.40,-51.56	PASS
Band41	20MHz	16QAM	41490	100RB#0	-30.14,-26.57,-28.31,-42.98	PASS

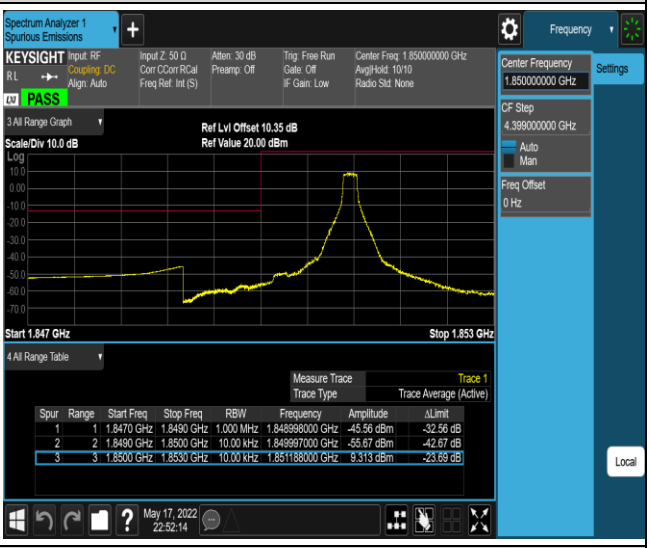
Remark: All bandwidth and all modulation had been tested, but only the worst case data displayed in this report.

Test Graphs

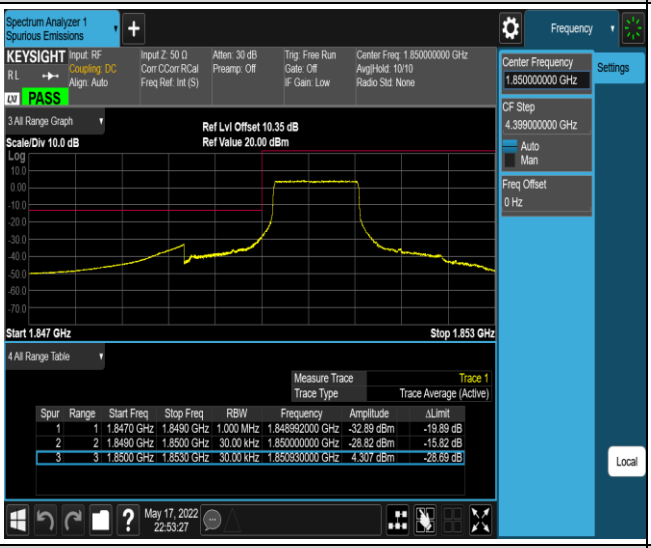
Band2-1.4MHz-QPSK-18607-1RB#0



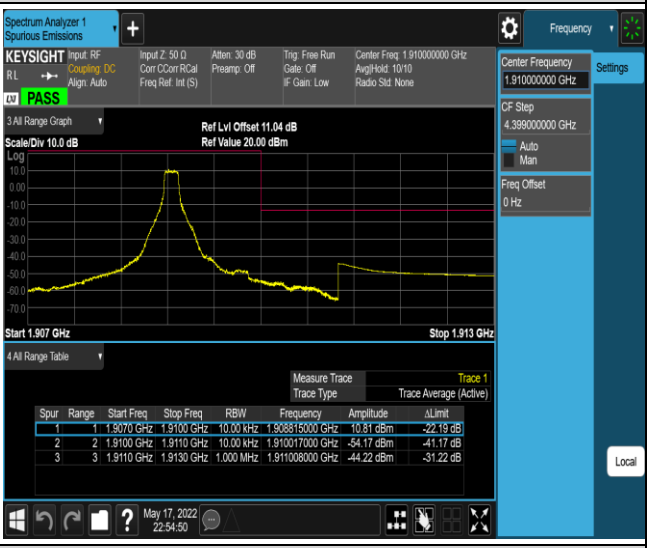
Band2-1.4MHz-QPSK-18607-1RB#5



Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#0



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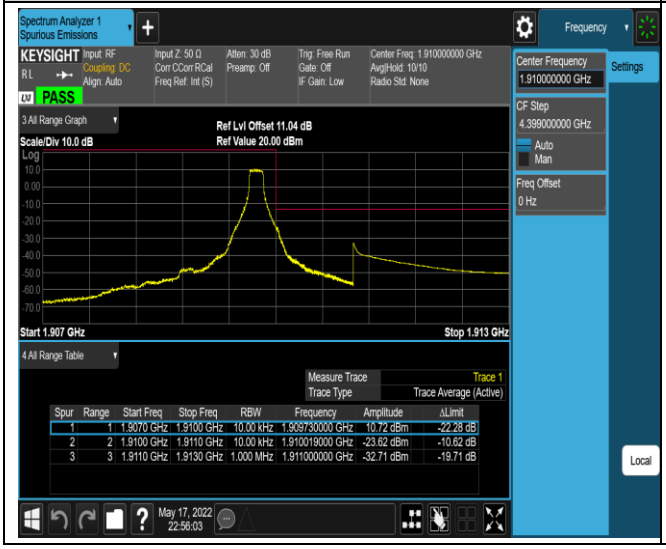
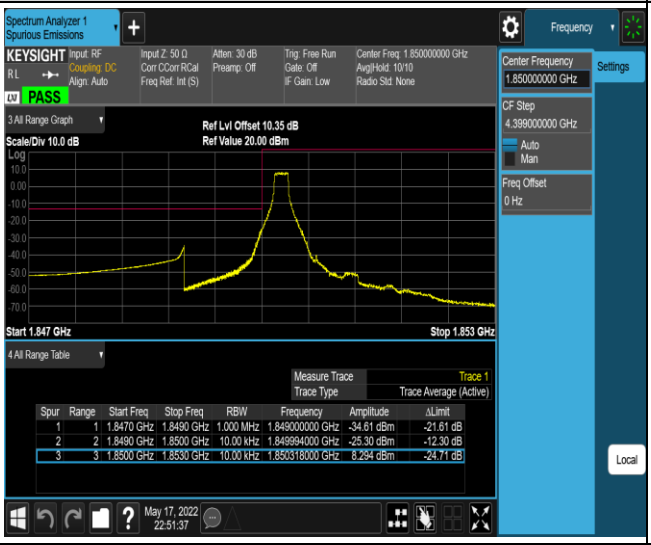


Band2-1.4MHz-QPSK-19193-6RB#0

Band2-1.4MHz-16QAM-18607-1RB#0



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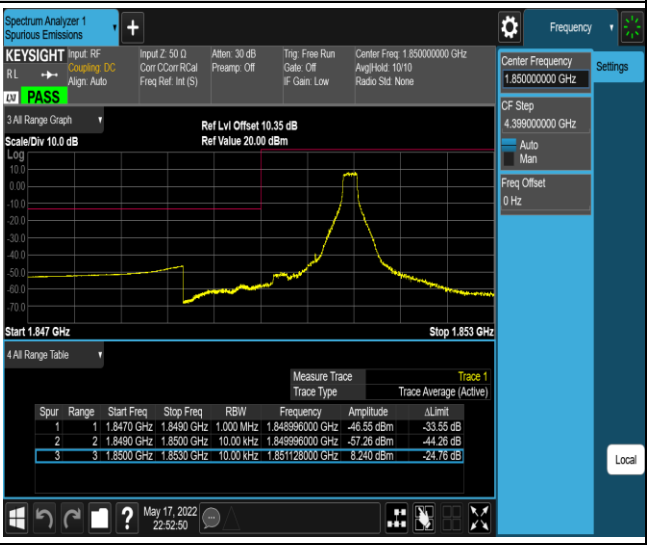
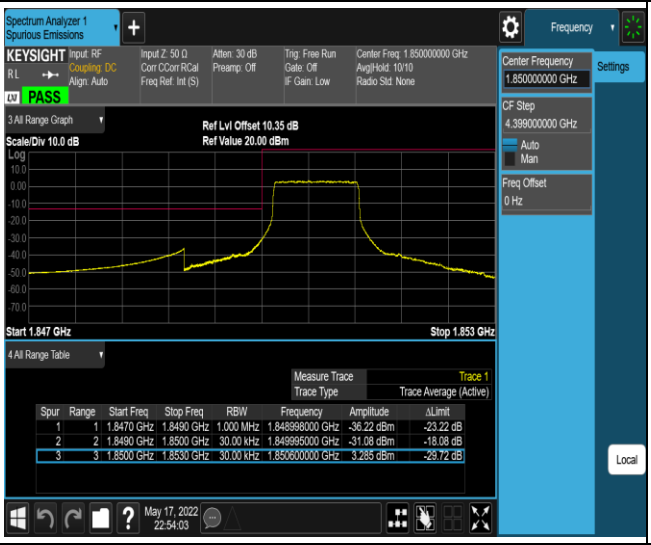


Band2-1.4MHz-16QAM-18607-6RB#0



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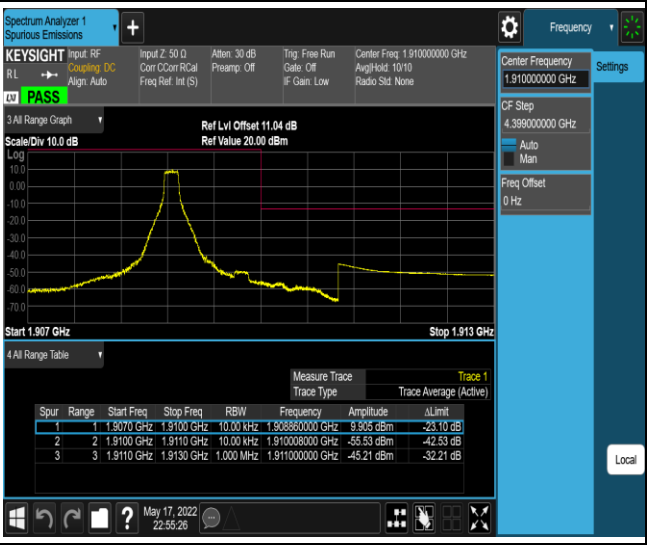
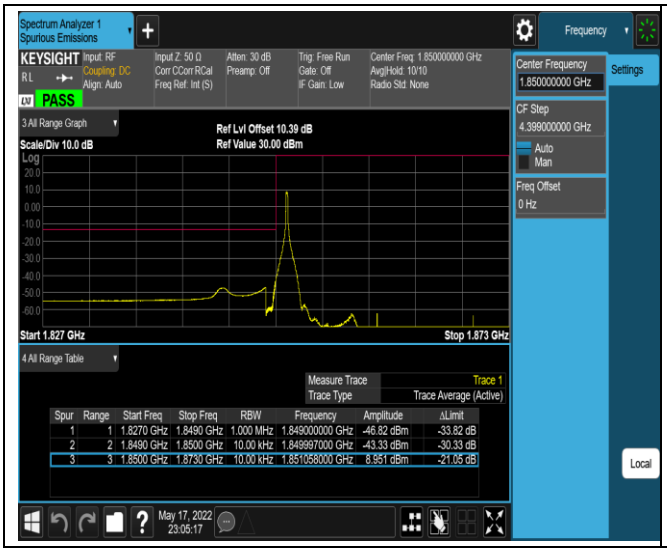


Band2-1.4MHz-16QAM-19193-1RB#5

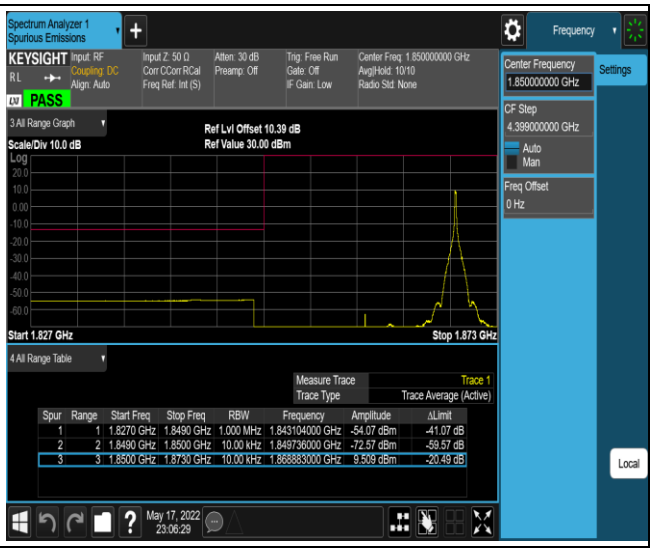
Band2-1.4MHz-16QAM-19193-6RB#0

Band2-20MHz-QPSK-18700-1RB#0

Band2-20MHz-QPSK-18700-1RB#99

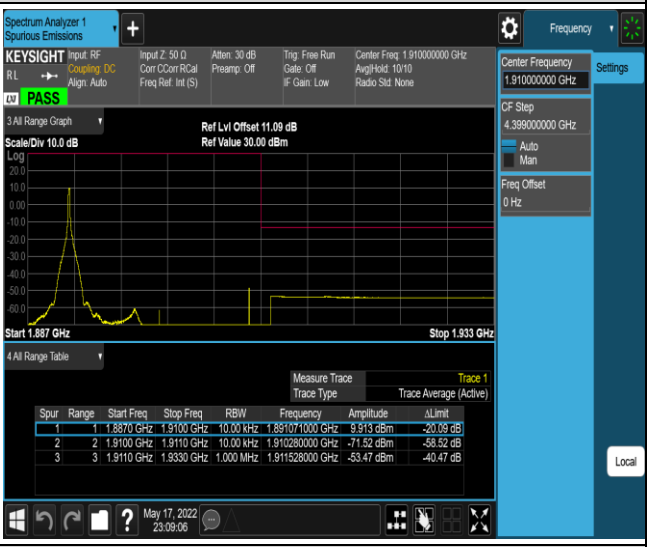


Band2-20MHz-QPSK-18700-100RB#0

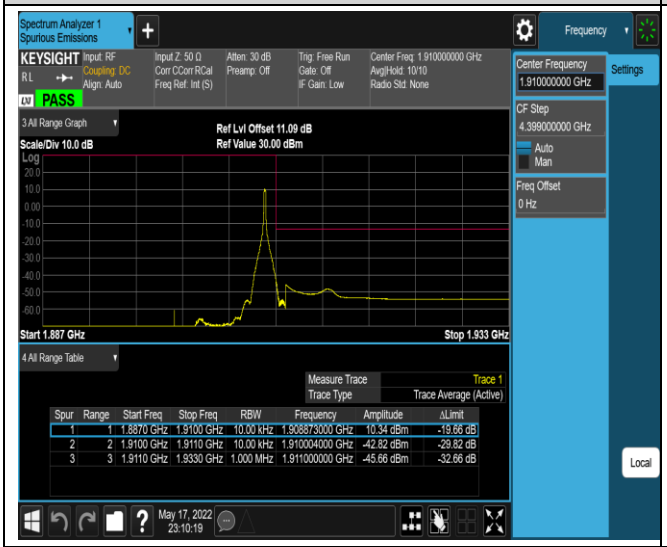


Band2-20MHz-QPSK-19100-1RB#0

Band2-20MHz-QPSK-19100-1RB#99

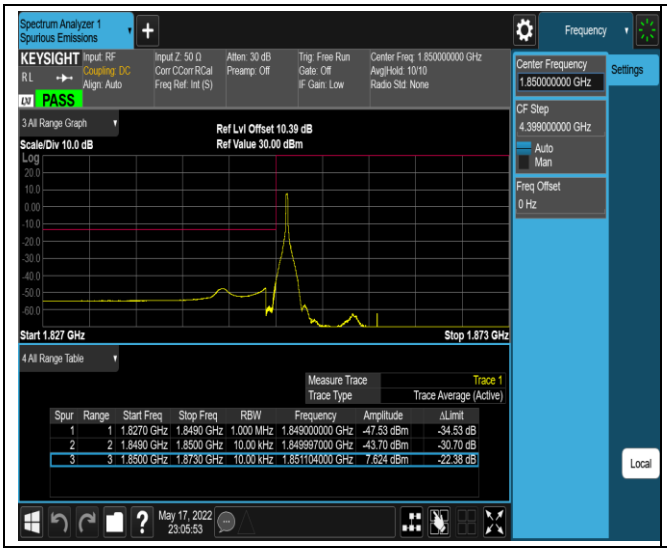


Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-1RB#0

Band2-20MHz-16QAM-18700-1RB#99

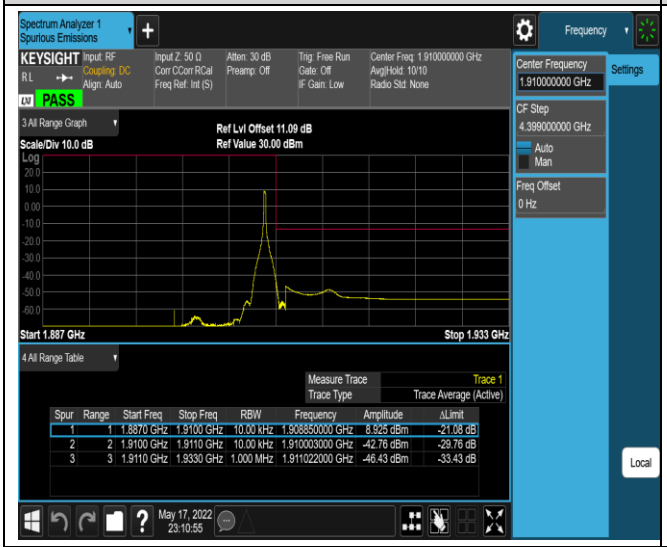


Band2-20MHz-16QAM-18700-100RB#0

Band2-20MHz-16QAM-19100-1RB#0

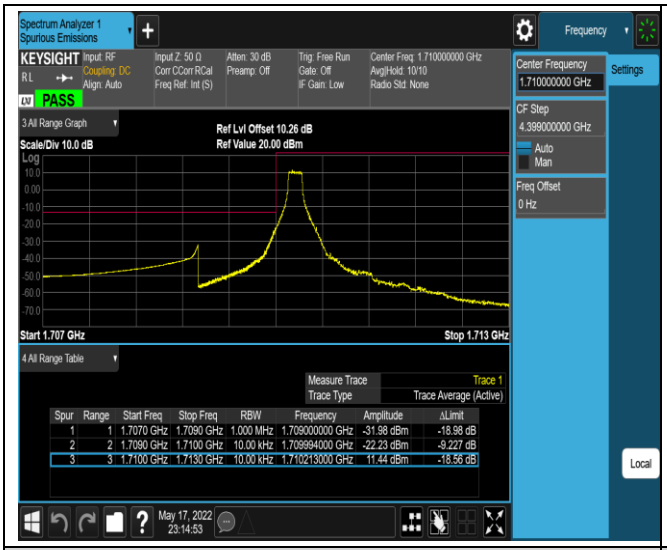
Band2-20MHz-16QAM-19100-1RB#99

Band2-20MHz-16QAM-19100-100RB#0

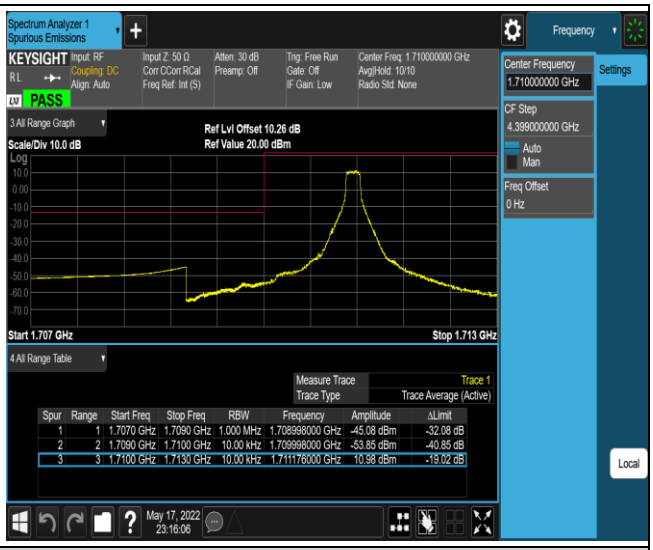


Band4-1.4MHz-QPSK-19957-1RB#0

Band4-1.4MHz-QPSK-19957-1RB#5

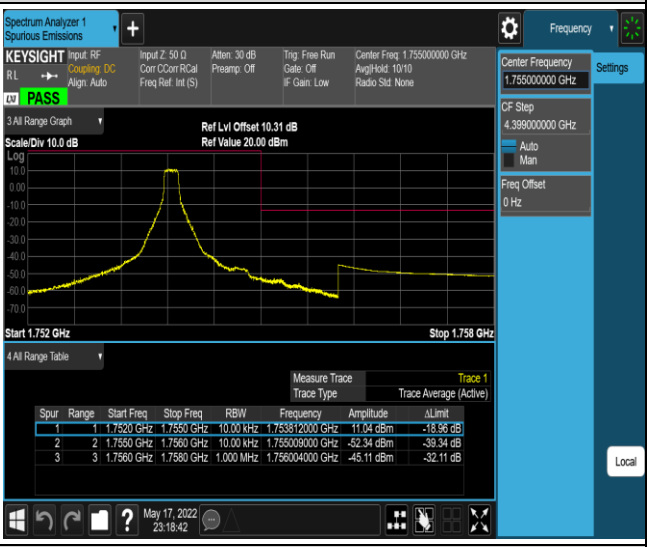


Band4-1.4MHz-QPSK-19957-6RB#0

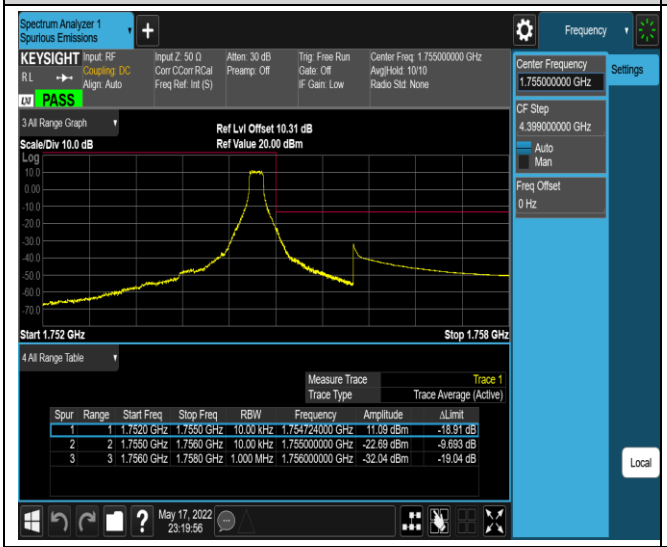


Band4-1.4MHz-QPSK-20393-1RB#0

Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0



Band4-1.4MHz-16QAM-19957-1RB#0

Band4-1.4MHz-16QAM-19957-1RB#5