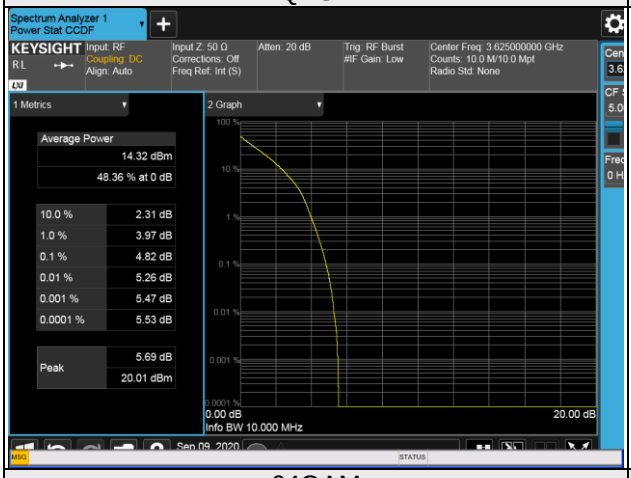
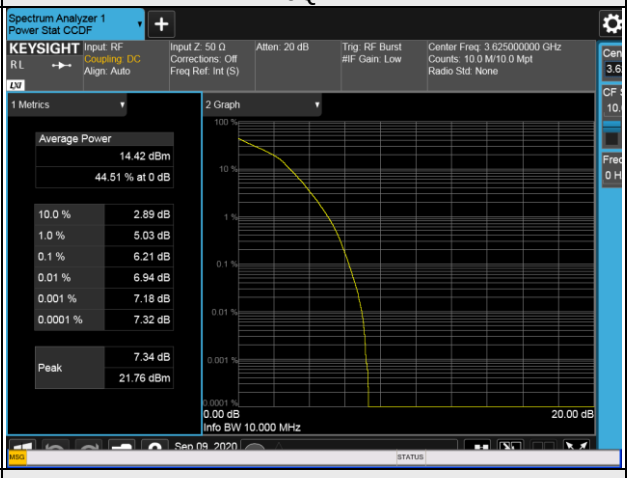
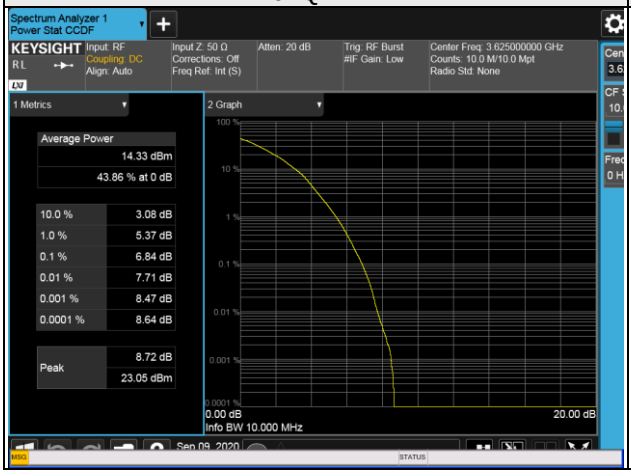
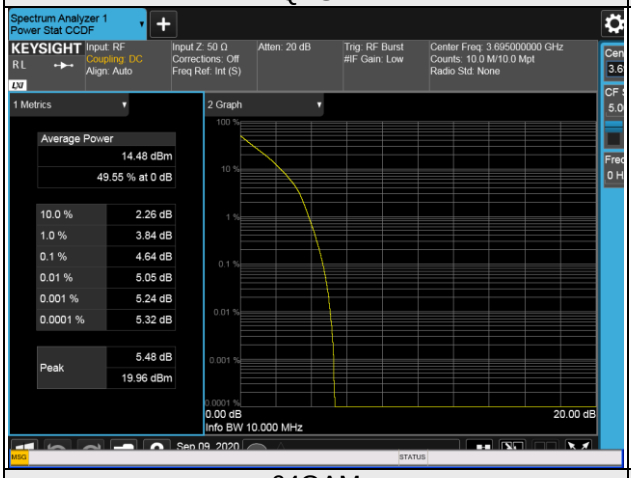
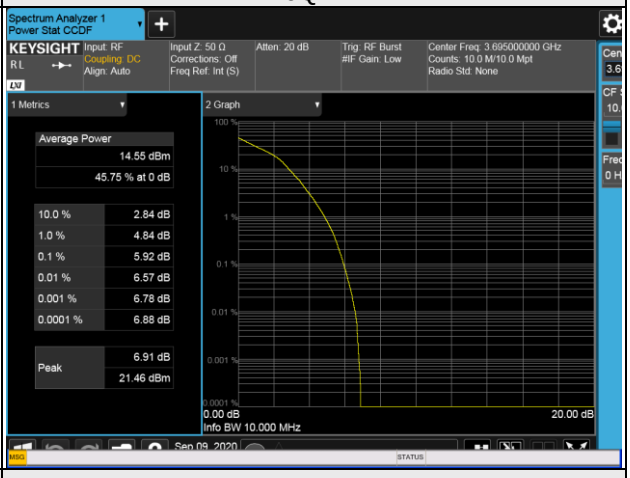
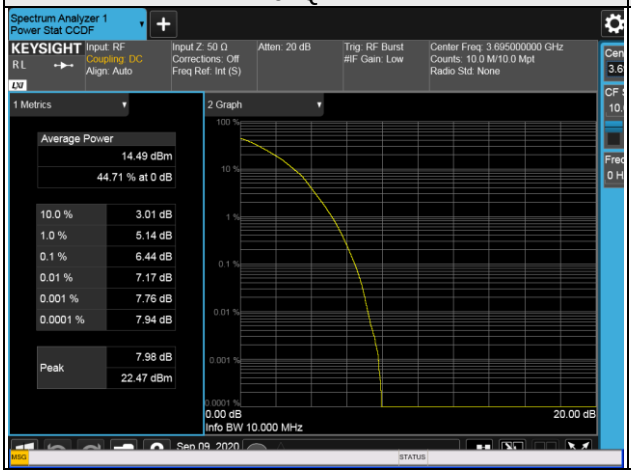
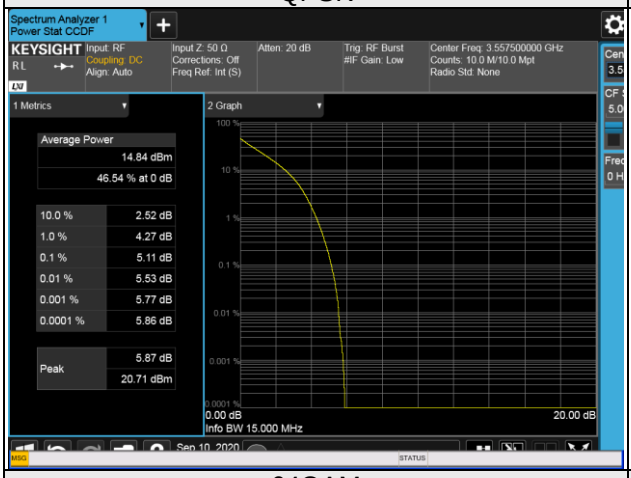
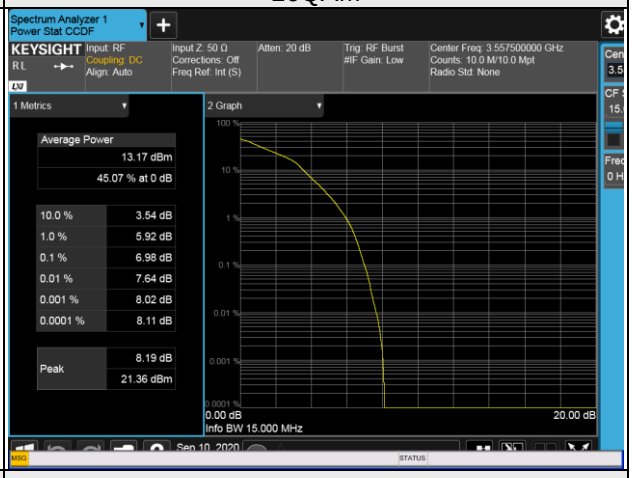
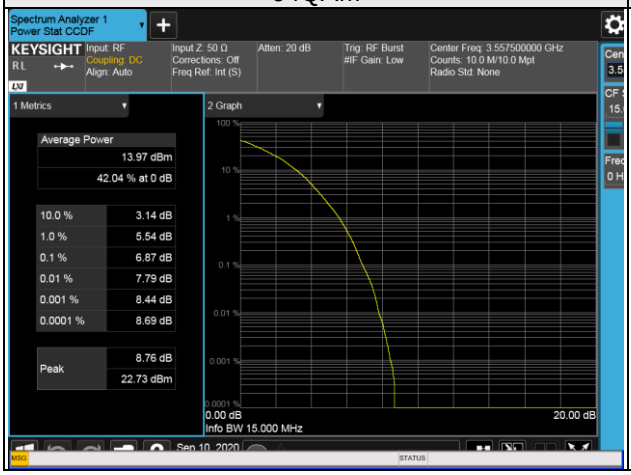
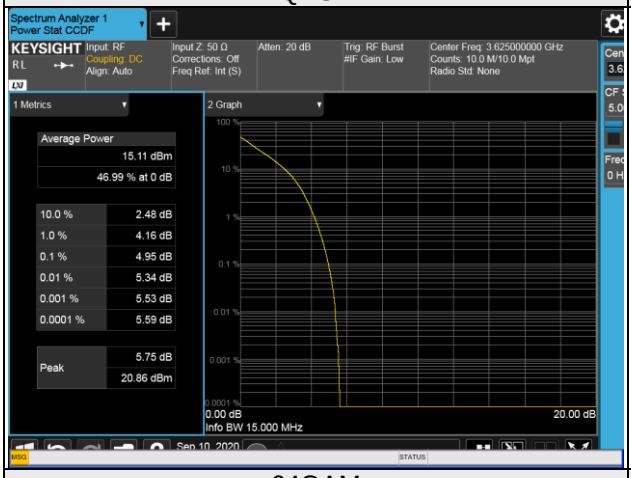
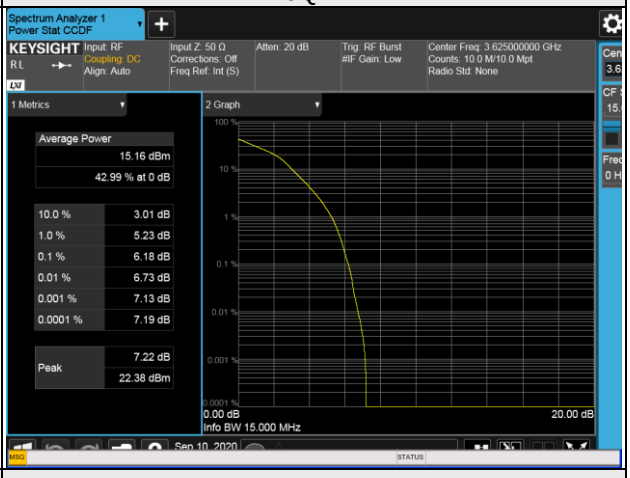
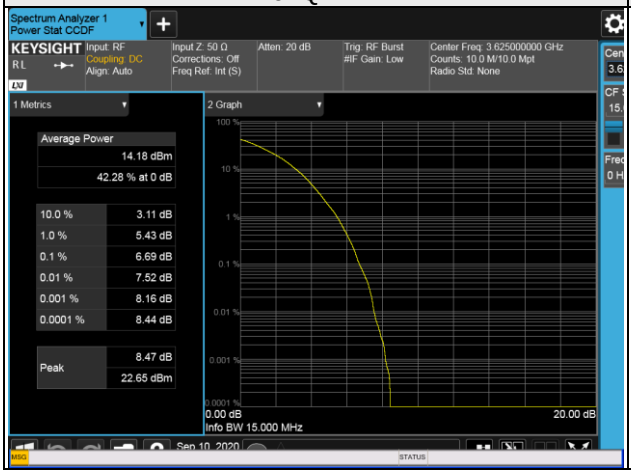
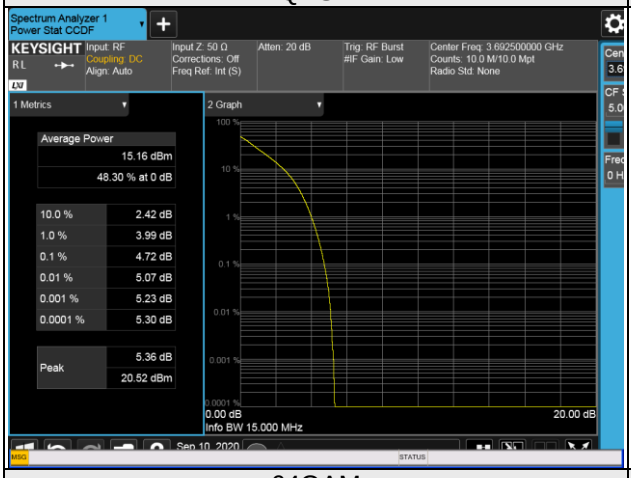
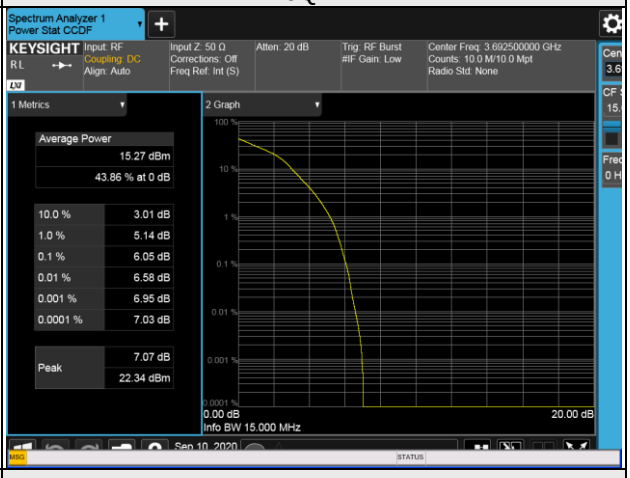
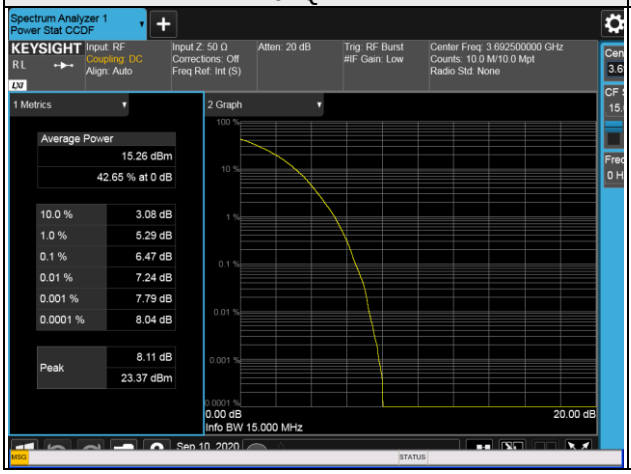
Middle	
QPSK	16QAM
	
64QAM	
	

High	
QPSK	16QAM
	
64QAM	
	

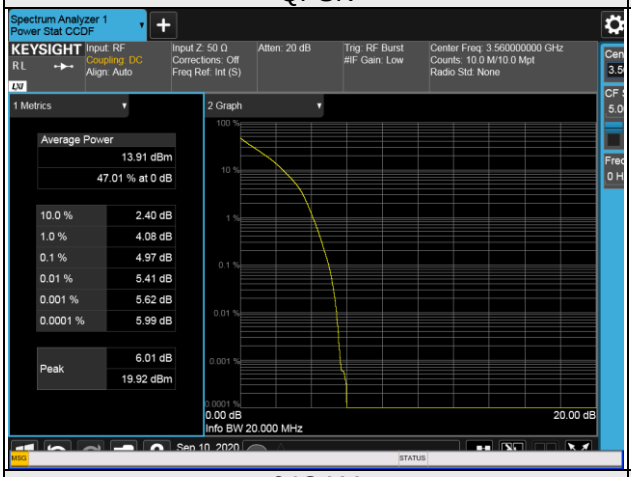
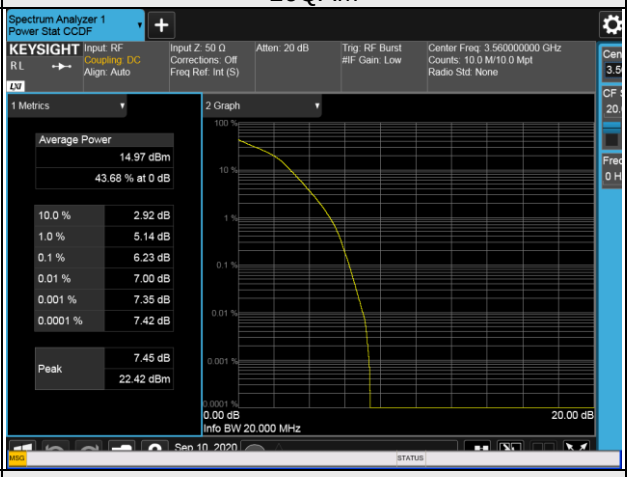
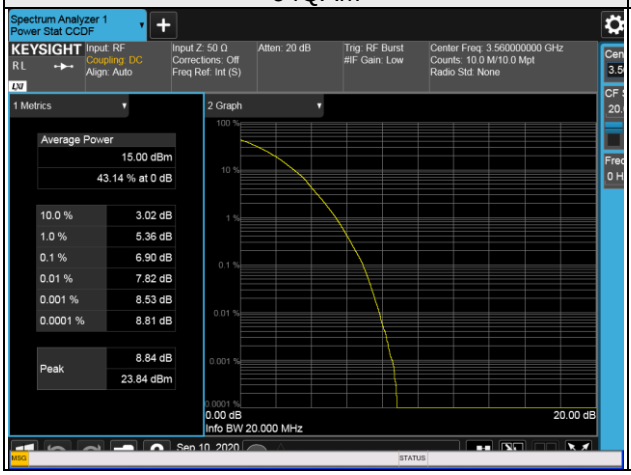
15MHz:

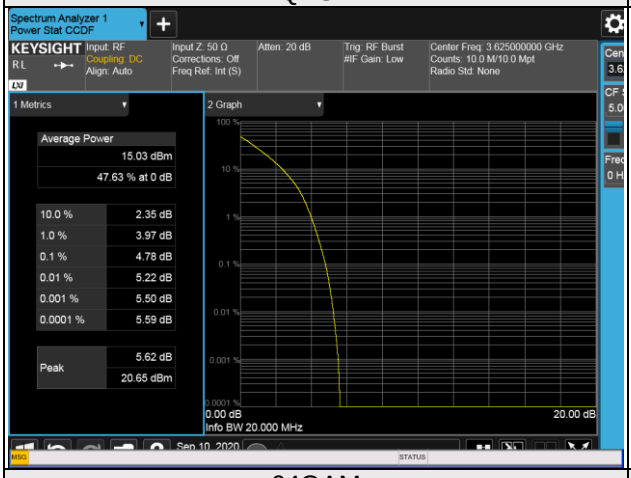
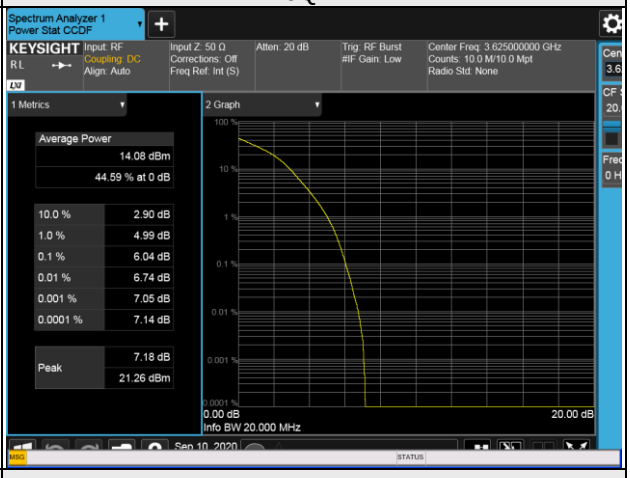
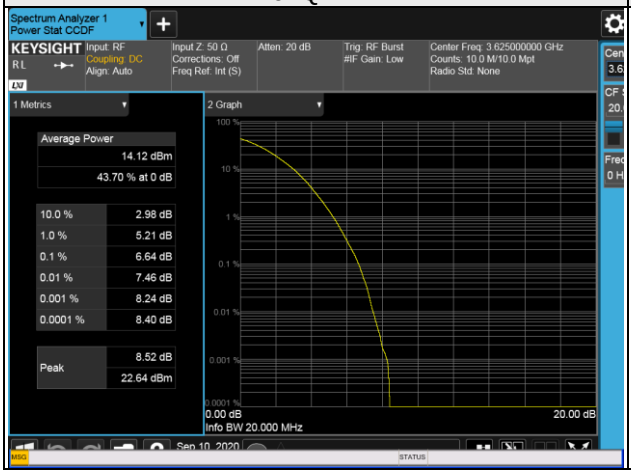
Spectrum Plot of Value	
Low	
QPSK	16QAM
	
64QAM	
	

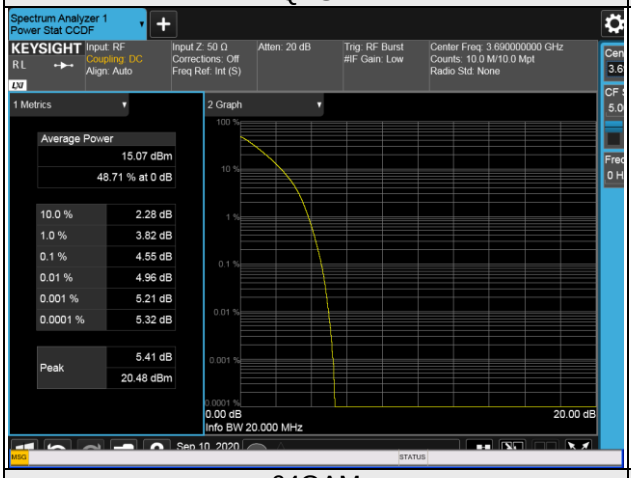
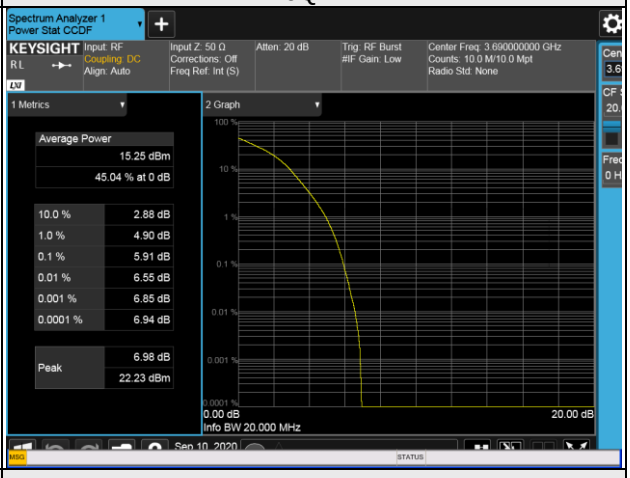
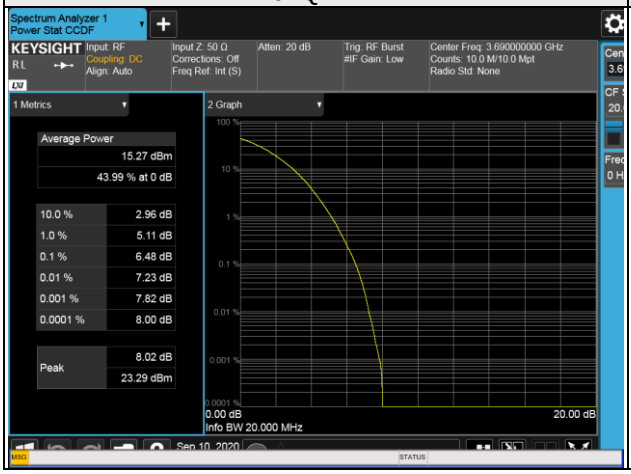
Middle	
QPSK	16QAM
	
64QAM	
	

High	
QPSK	16QAM
	
64QAM	
	

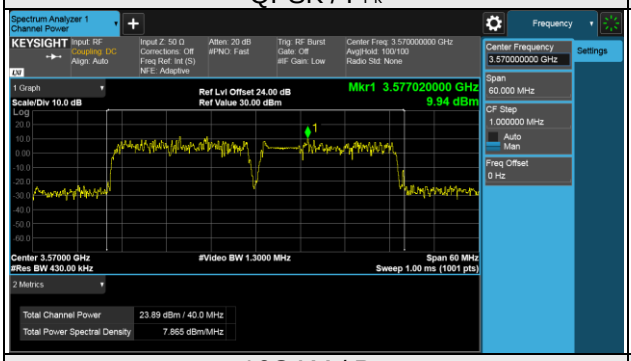
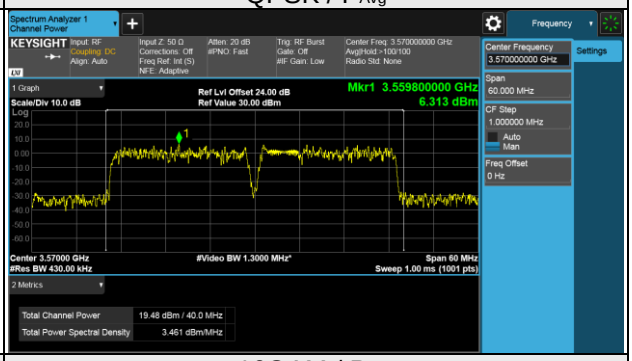
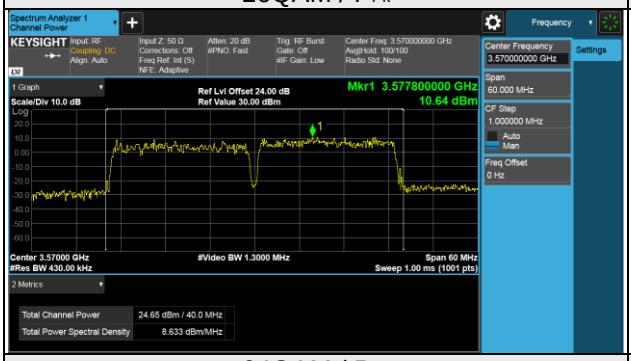
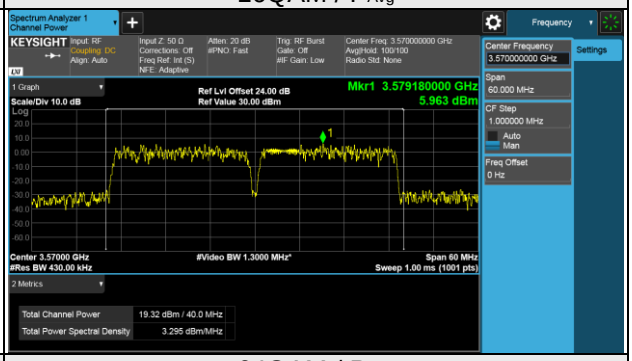
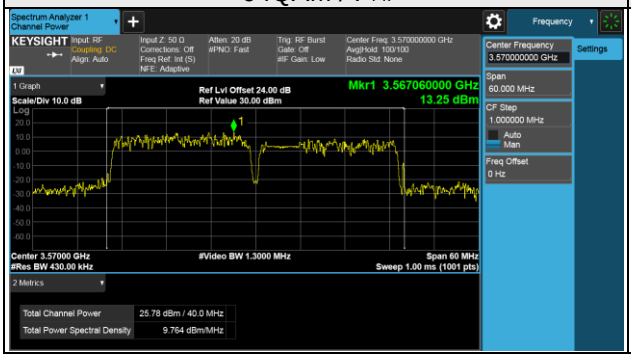
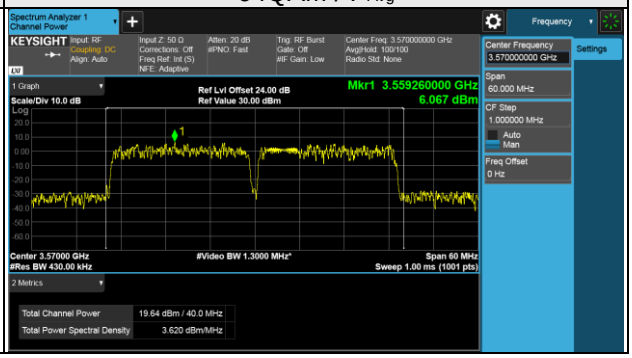
20MHz:

Spectrum Plot of Value	
Low	
QPSK	16QAM
	
64QAM	
	

Middle	
QPSK	16QAM
	
64QAM	
	

High	
QPSK	16QAM
	
64QAM	
	

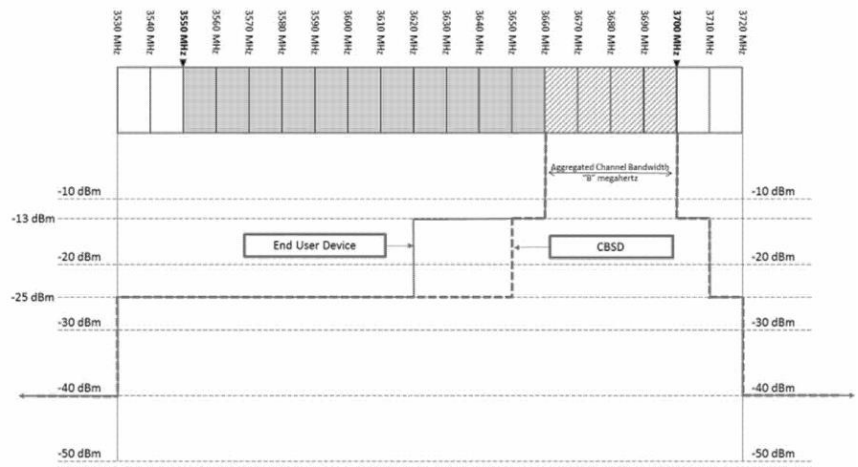
CA Contiguous

Spectrum Plot of Value	
Worst case	
QPSK / P_{Pk}	QPSK / P_{Avg}
	
16QAM / P_{Pk}	16QAM / P_{Avg}
	
64QAM / P_{Pk}	64QAM / P_{Avg}
	

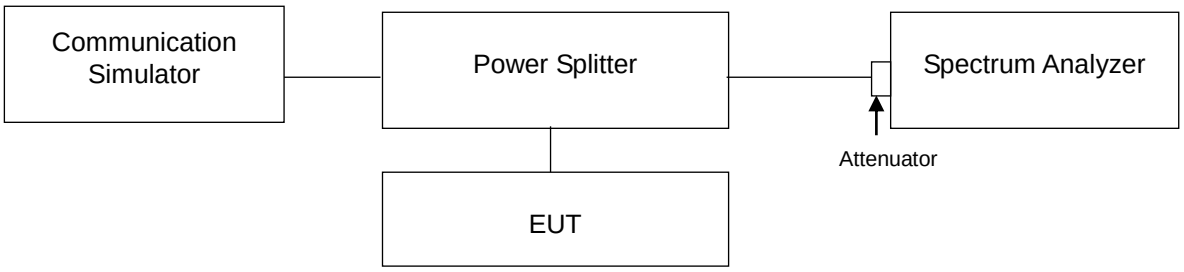
4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

For CBSD power of any emissions outside the Fundamental	Limit
Within 0-10MHz above the Assigned Channel	-13 dBm/MHz
Within 0-10MHz below the Assigned Channel	
Greater than 10MHz above the Assigned Channel	-25 dBm/MHz
Greater than 10MHz below the Assigned Channel	
Power of any emission below 3530MHz	-40 dBm/MHz
Power of any emission above 3720MHz	



4.6.2 Test Setup



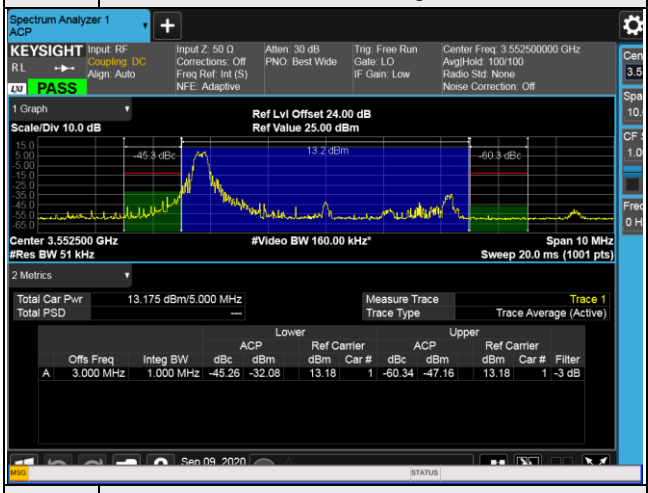
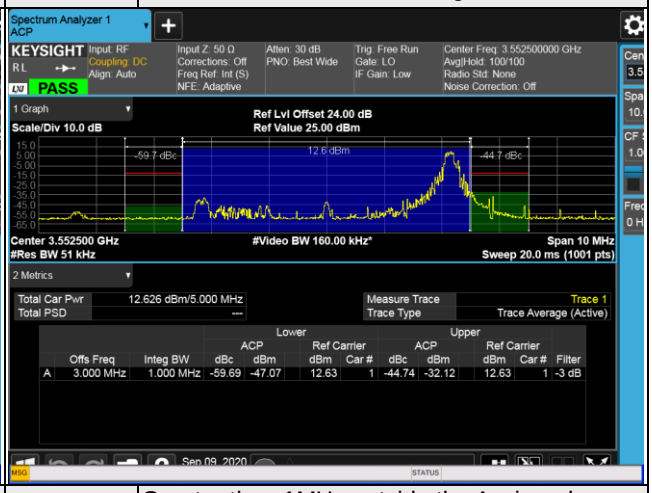
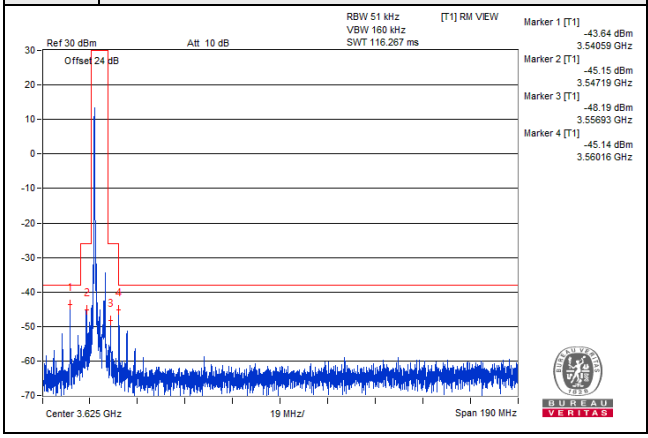
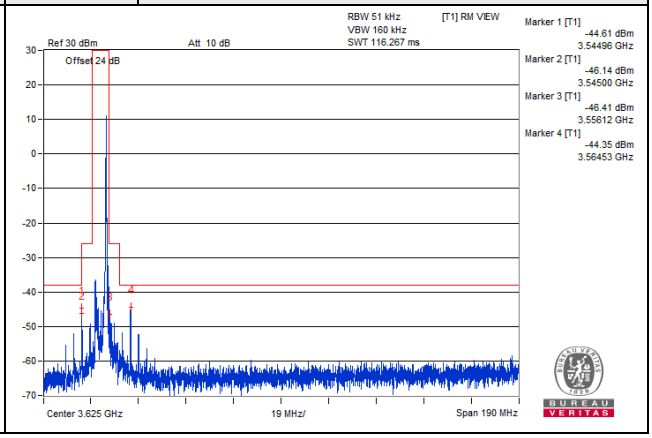
4.6.3 Test Instruments

Refer to section 4.1.3 to get information of above instrument.

4.6.4 Test Procedure

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
b. Measuring frequency range is from 9 kHz to 40 GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.
c. Measurement instrument be configured to measure only during active transmissions (gating function of spectrum is enabled to measure max output power of TX on burst).

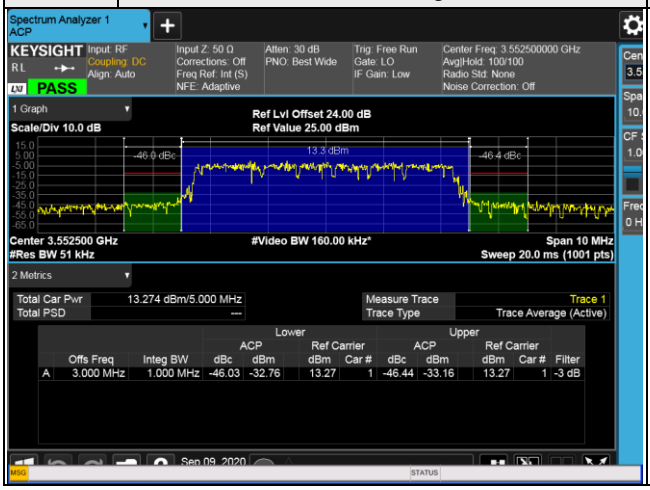
4.6.5 Test Results

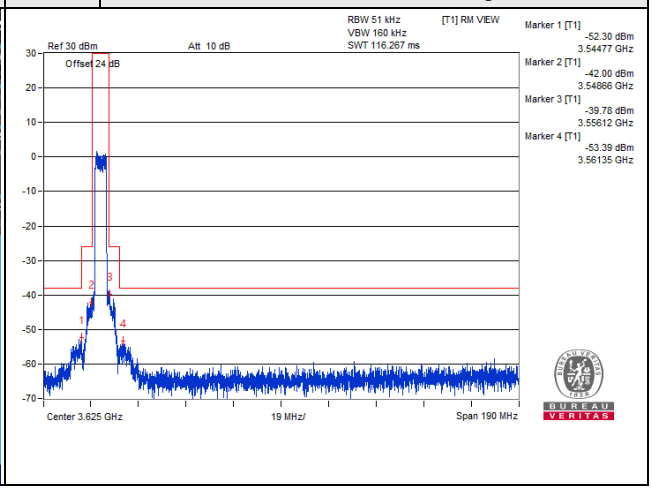
LTE Band 48			
Channel Bandwidth 5MHz QPSK			
Low Channel 3552.5MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

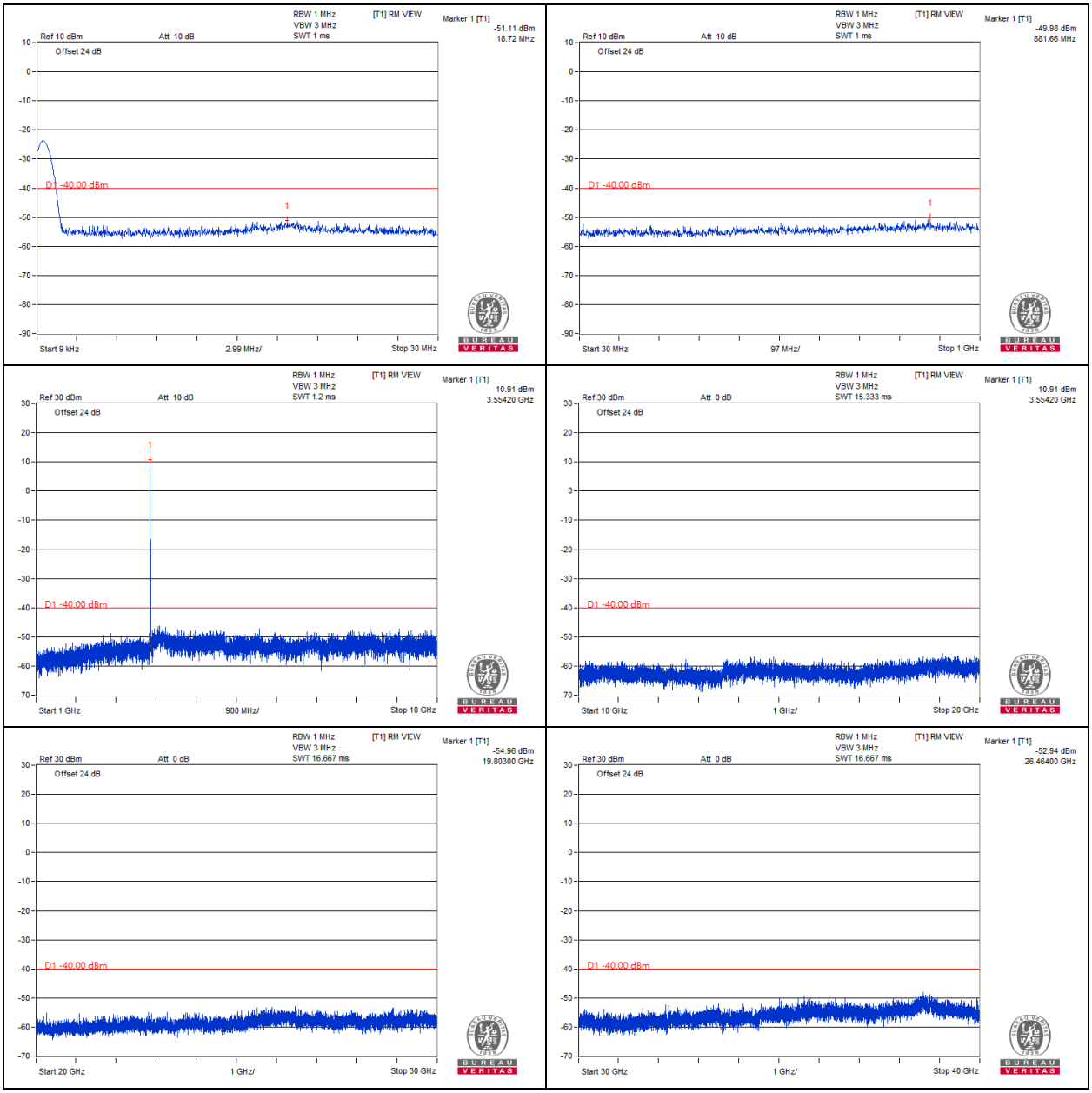
LTE Band 48			
Channel Bandwidth 5MHz QPSK			
Low Channel 3552.5MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



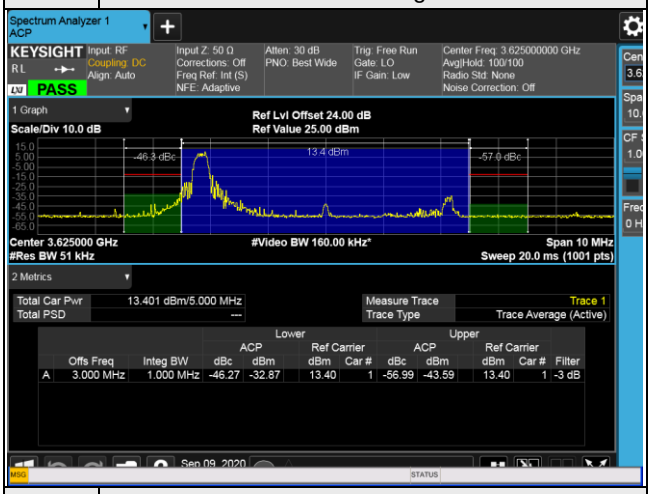
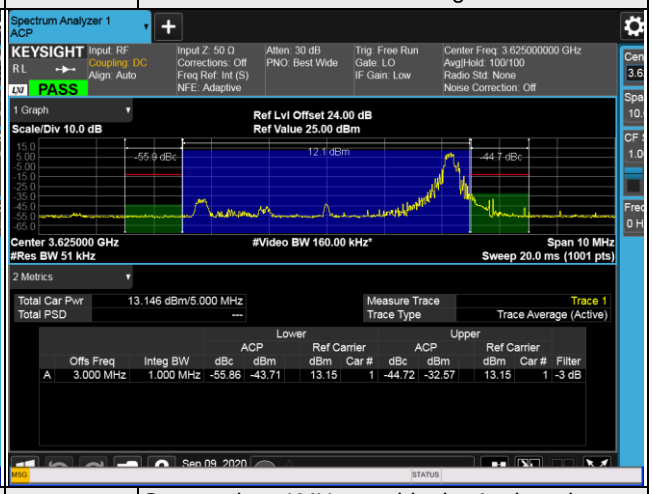
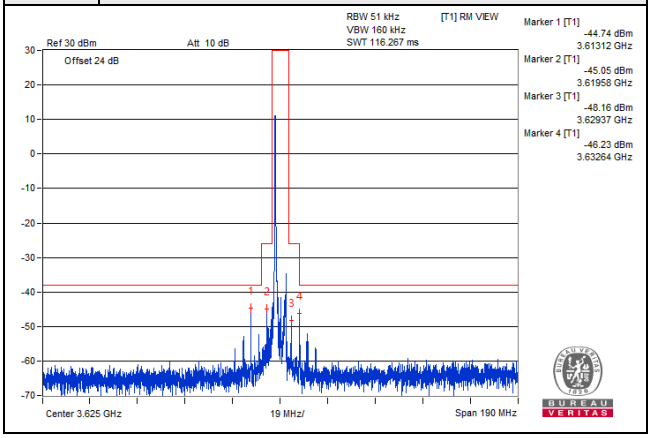
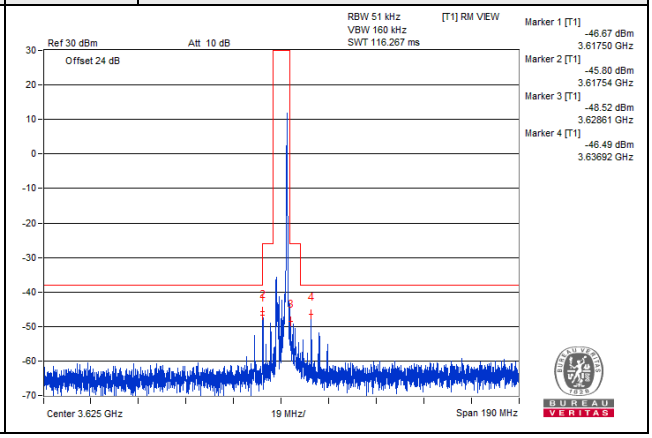


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

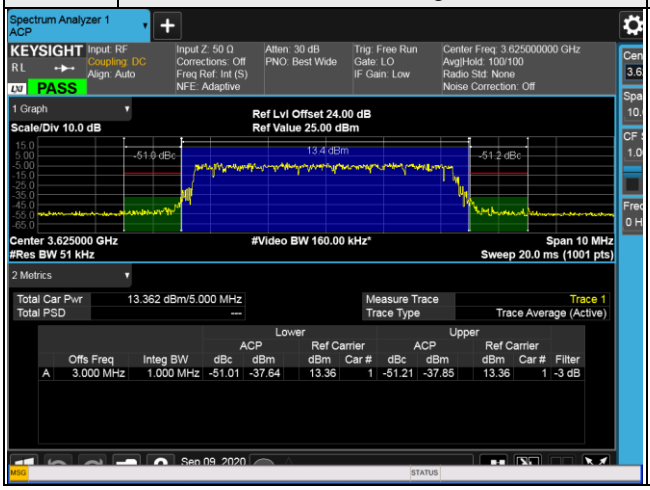
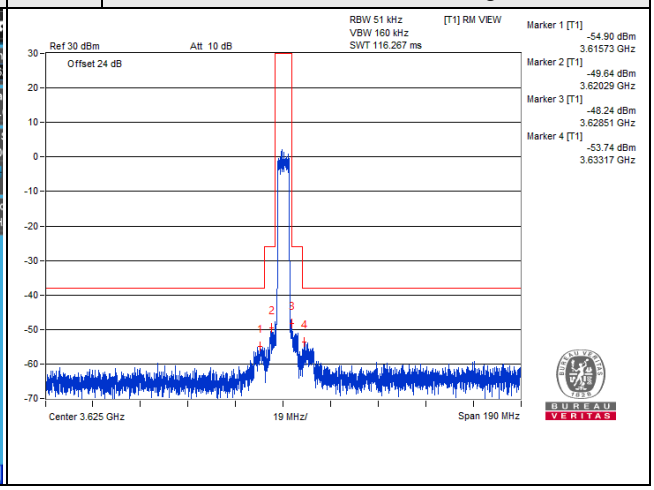


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 5MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
		
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

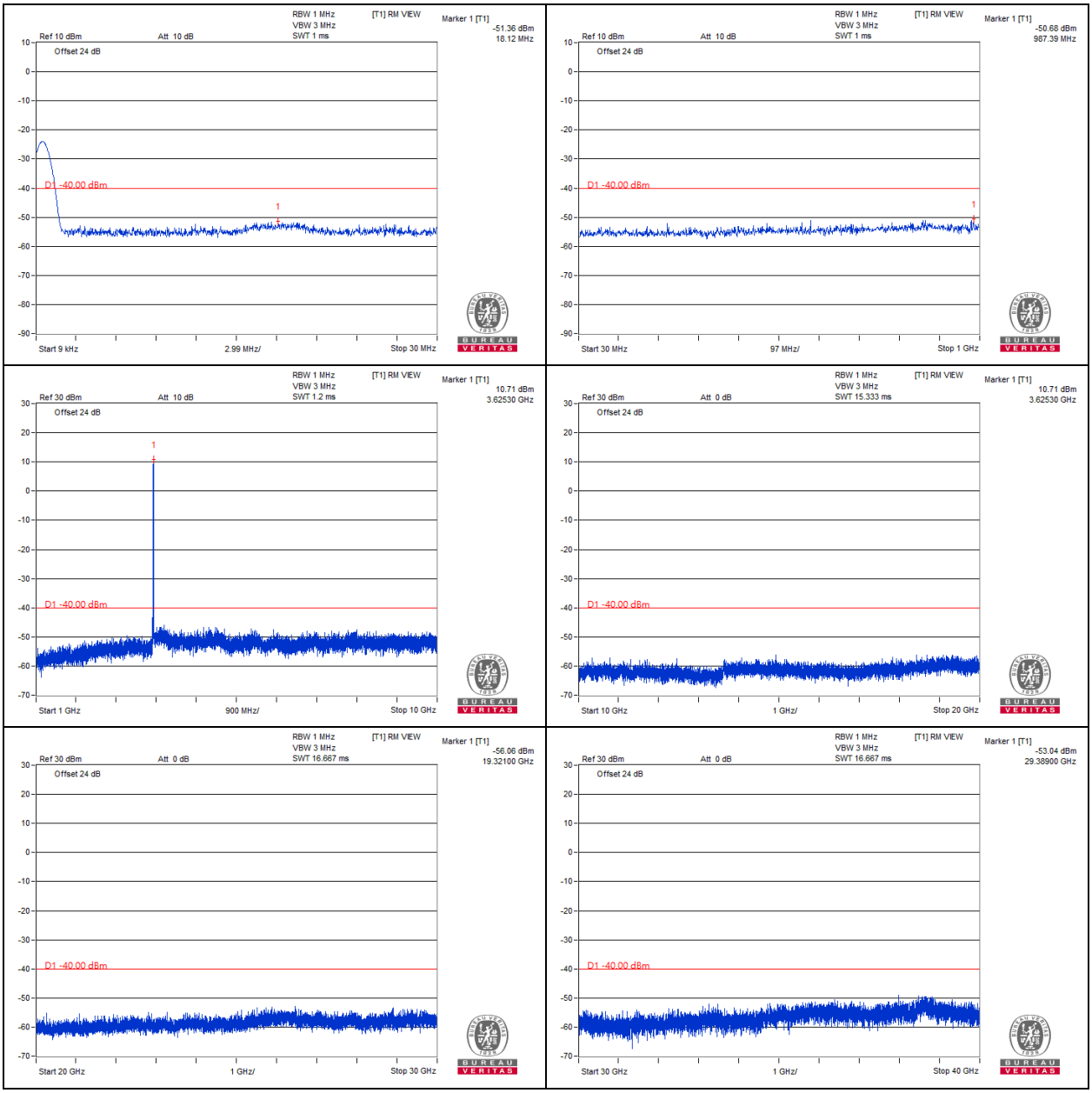
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

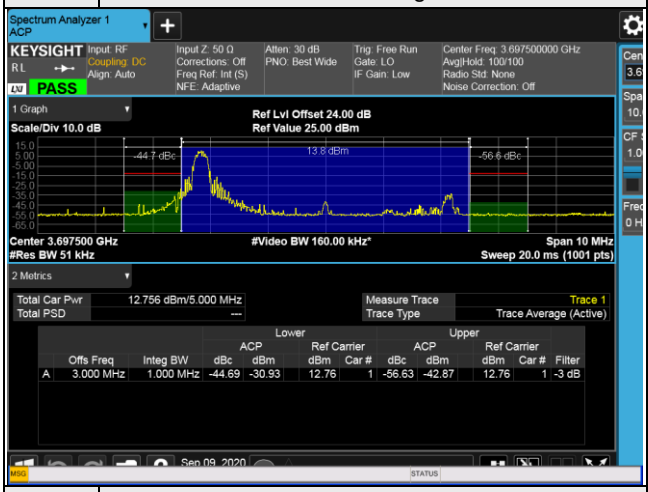
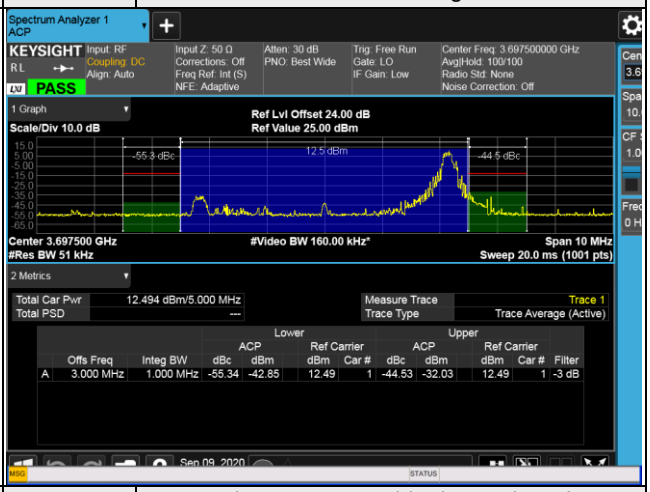
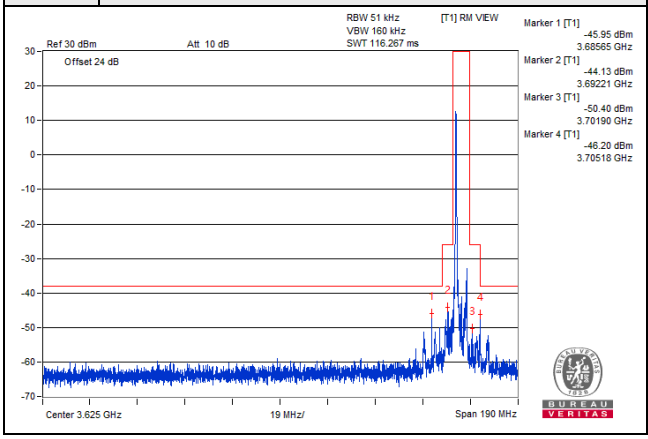
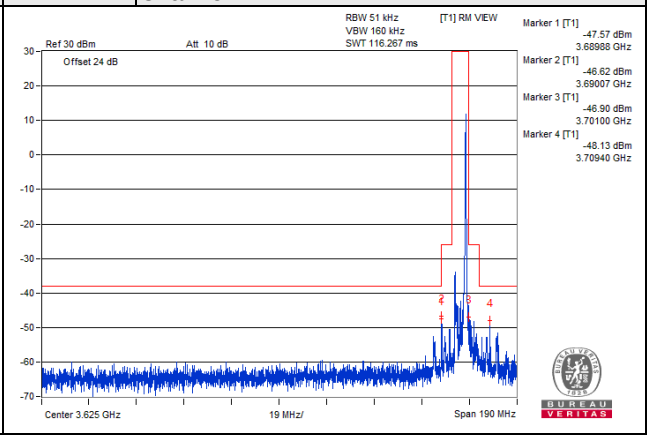
LTE Band 48			
Middle Channel 3625MHz			
Low Channel 3625MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

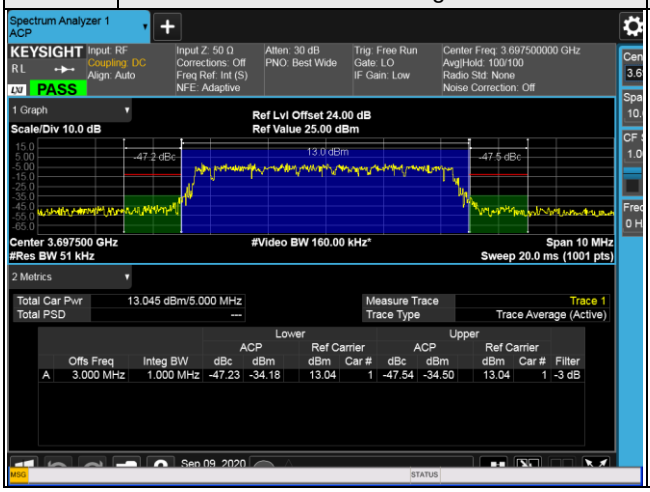
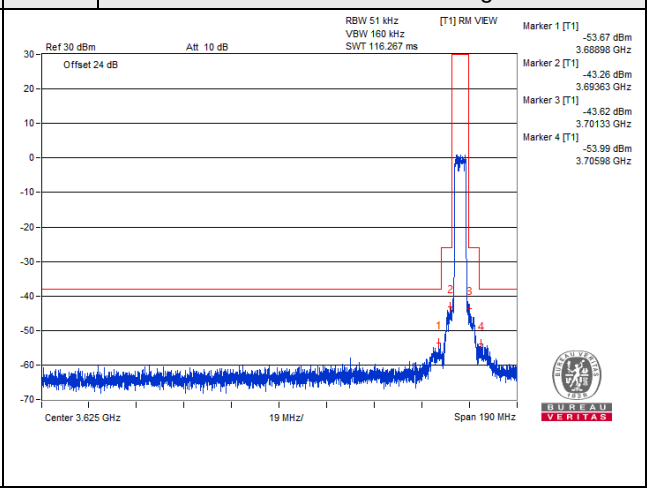


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 5MHz QPSK			
High Channel 3697.5MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

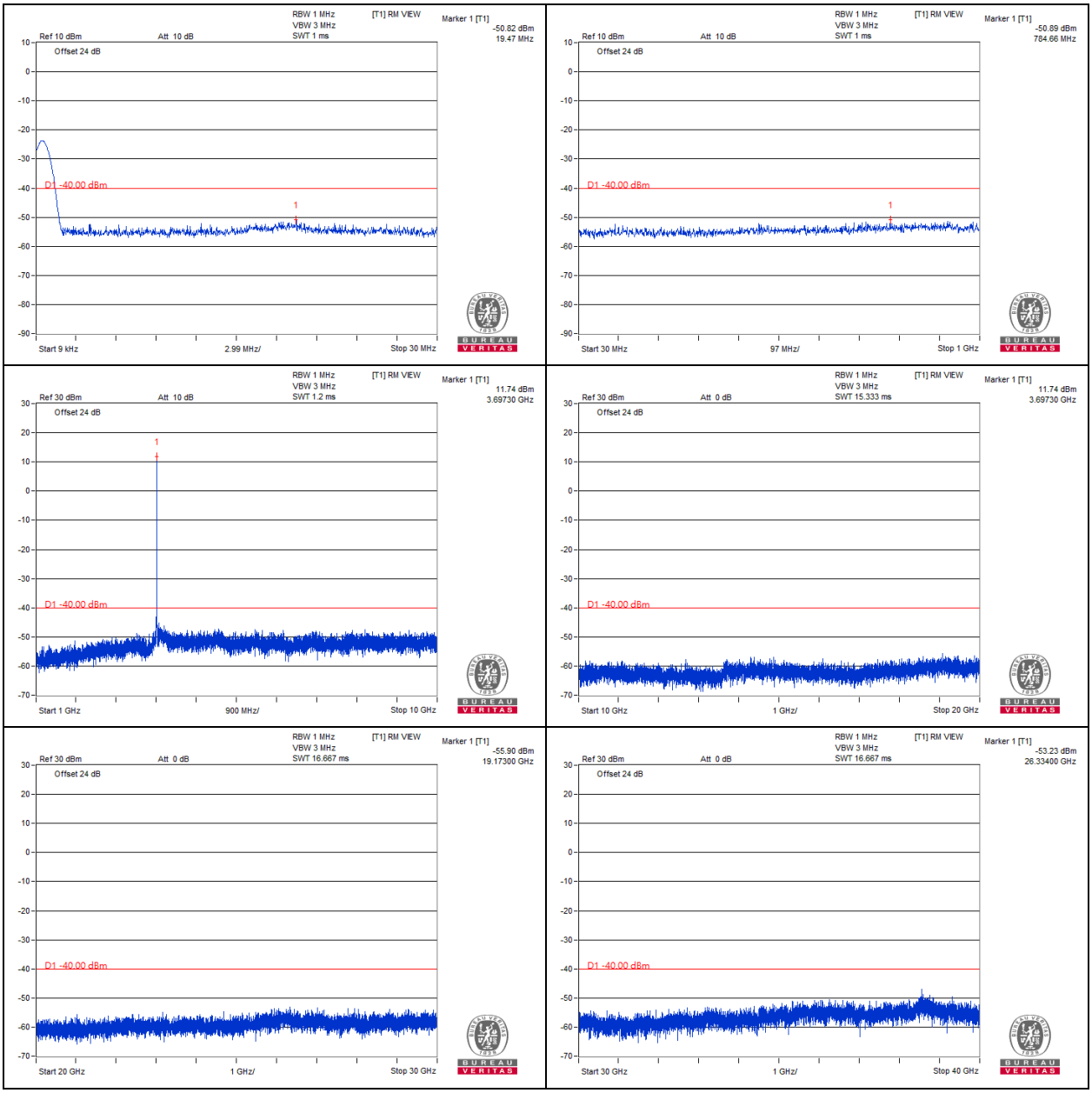
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

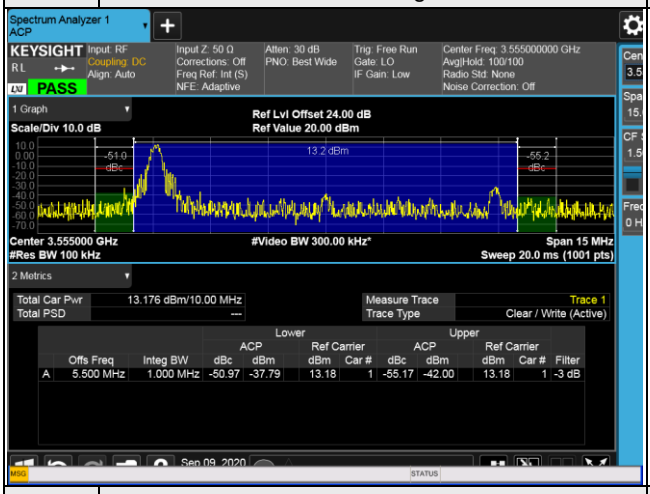
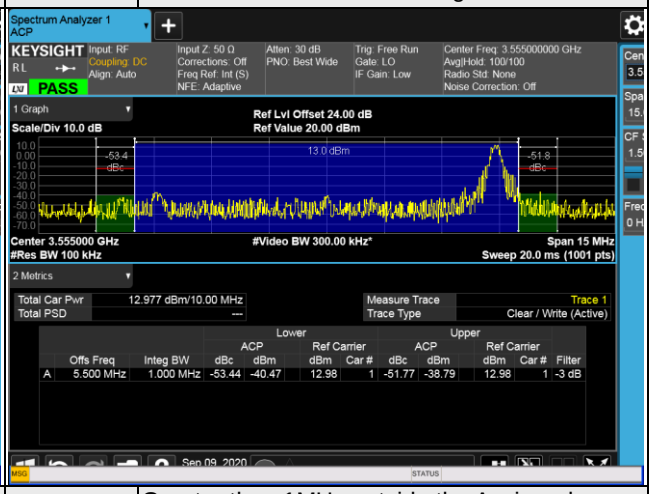
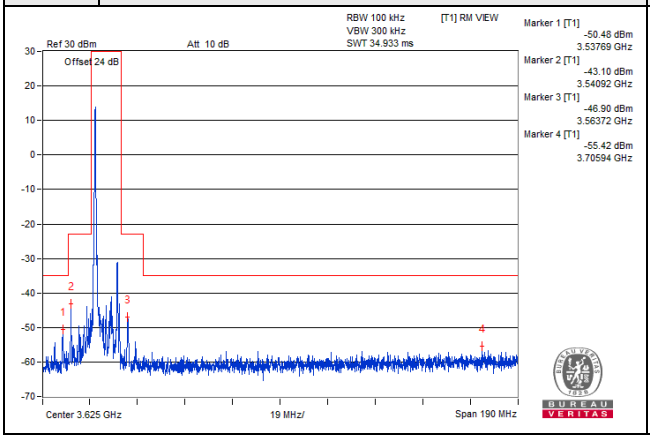
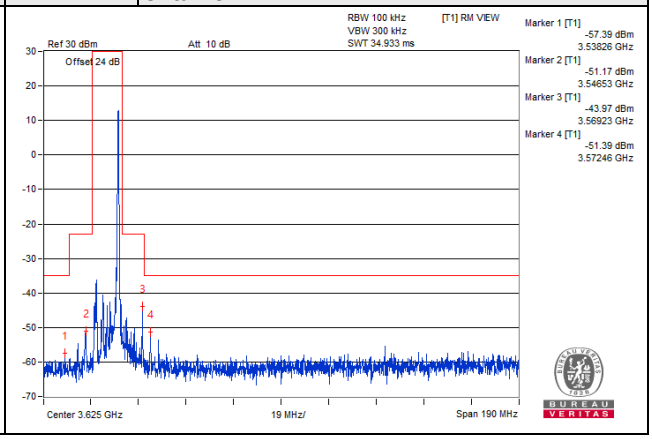
LTE Band 48			
High Channel 3697.5MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

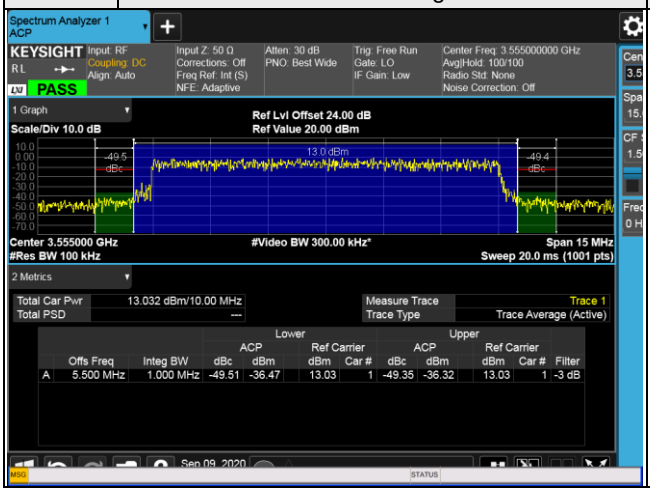
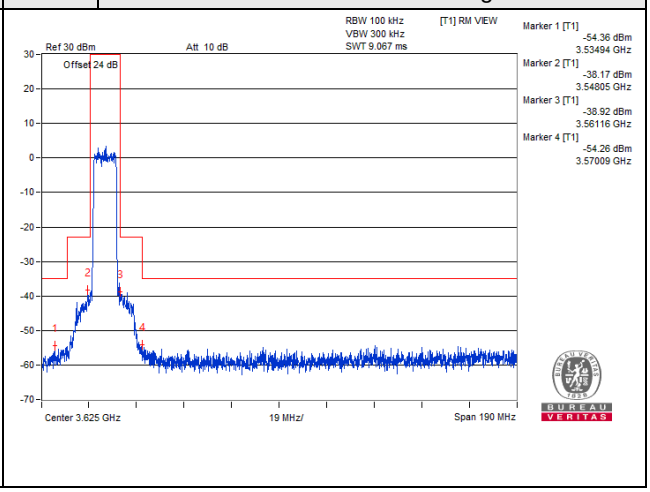


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 10MHz QPSK			
Low Channel 3555MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
		
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
		

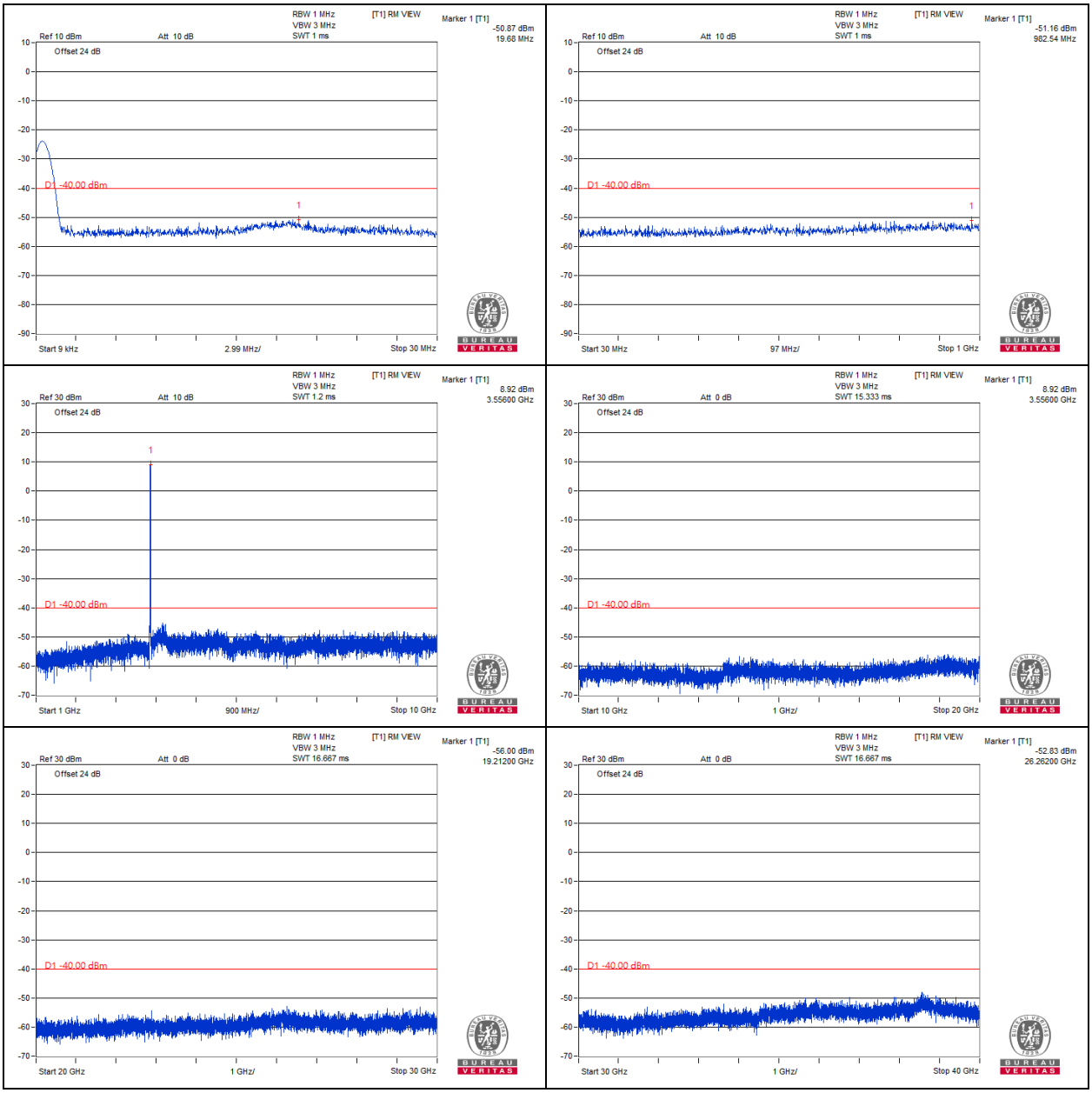
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm
B MHz below the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

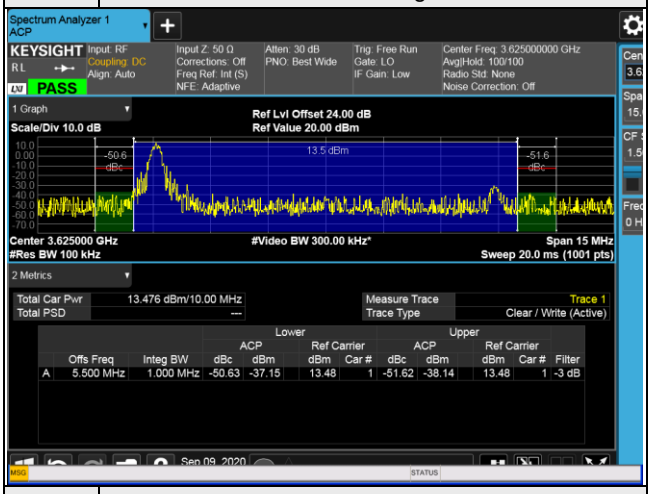
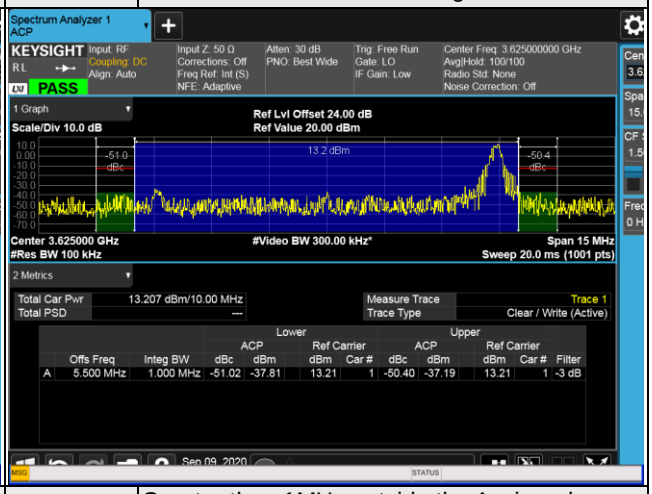
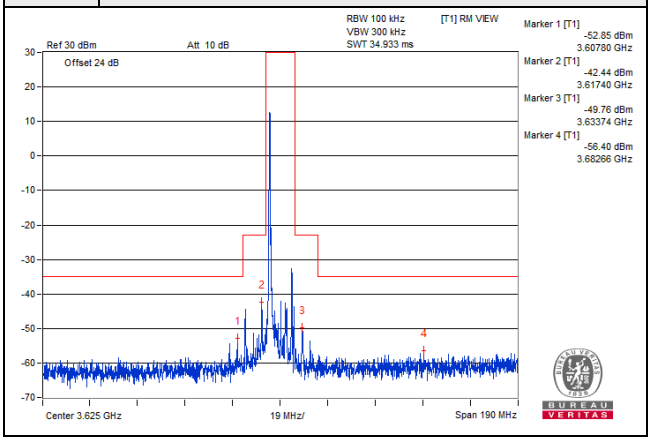
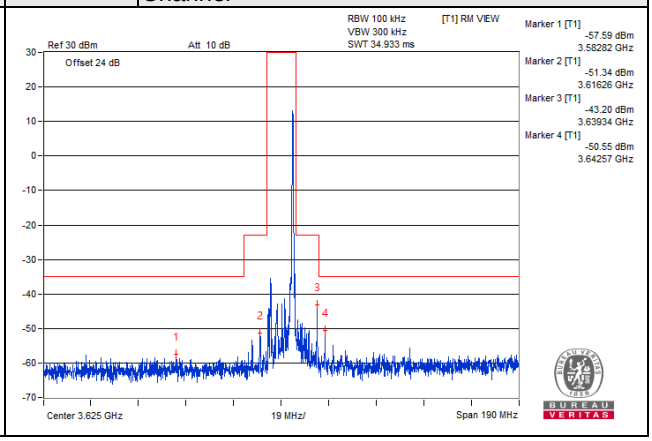
Channel Bandwidth 10MHz QPSK			
Low Channel 3555MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm
B MHz below the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

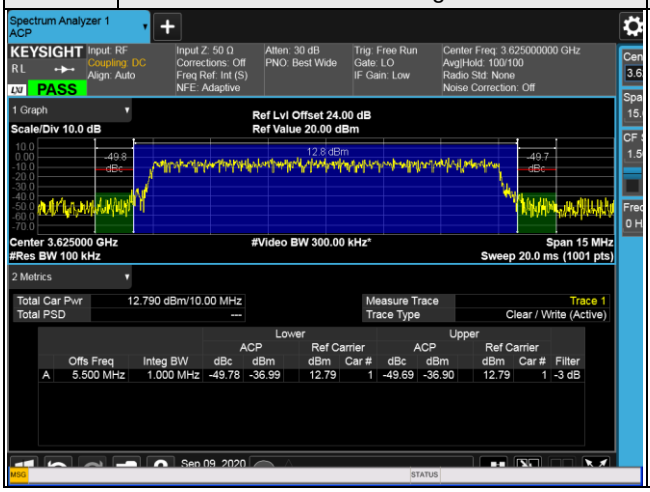
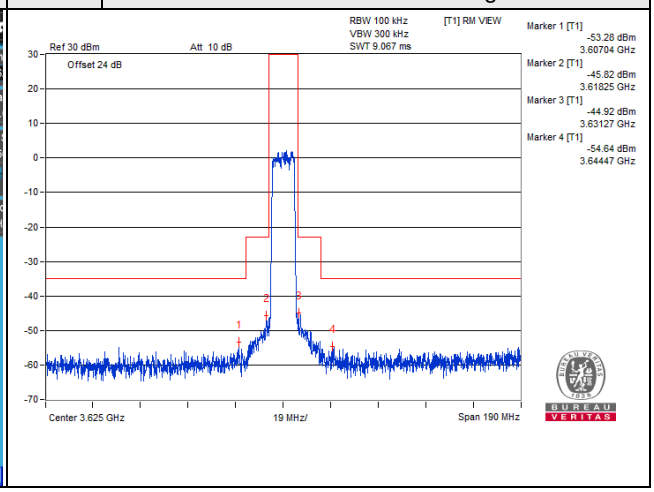


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 10MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
				
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
				

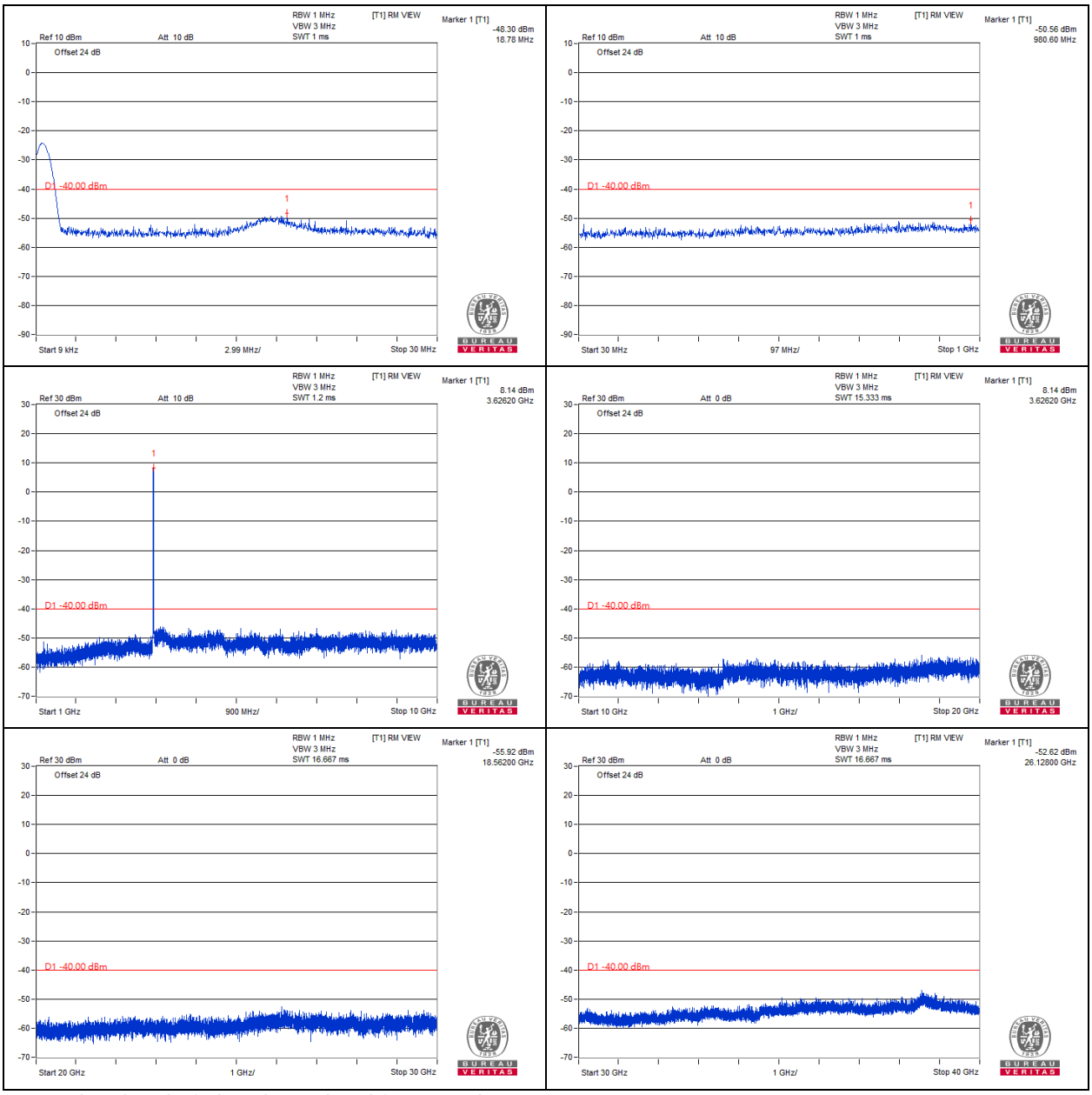
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm
B MHz below the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

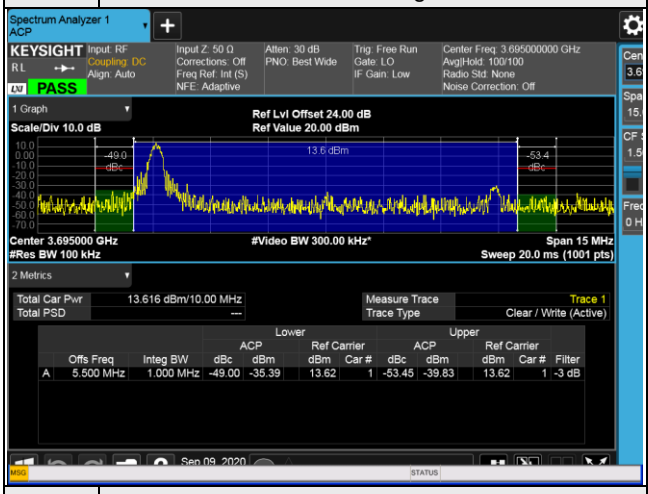
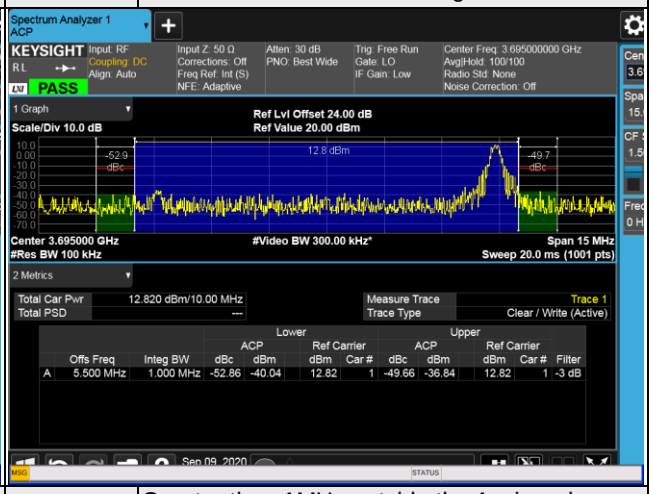
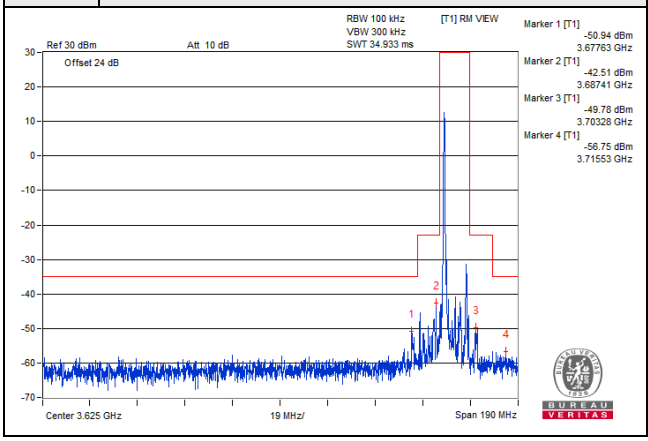
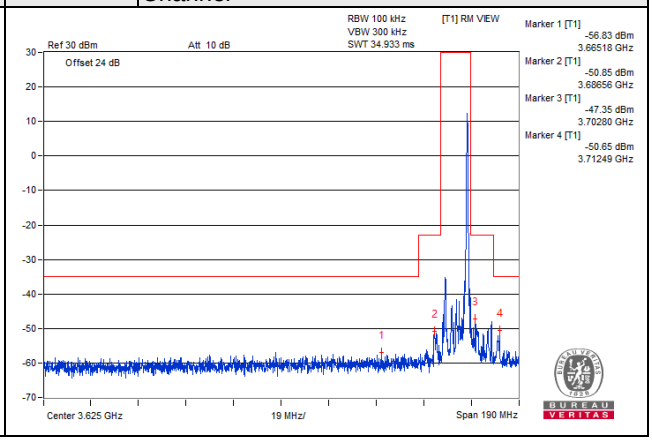
Channel Bandwidth 10MHz QPSK			
Middle Channel 3625MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm
B MHz below the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

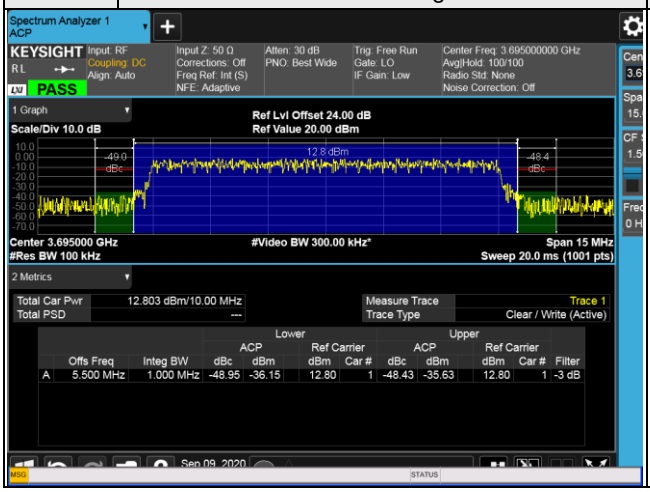
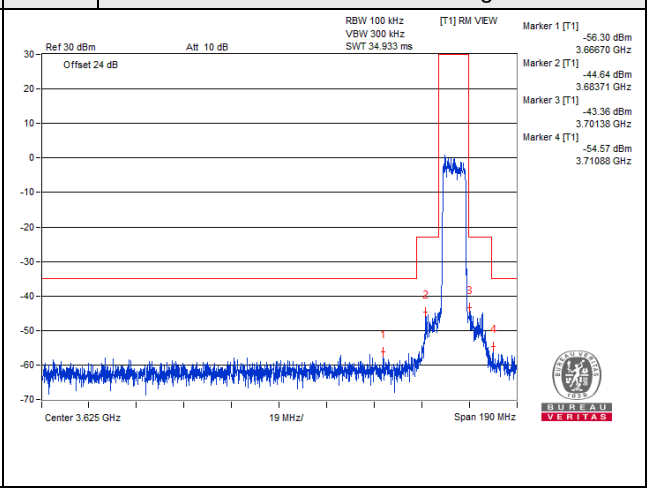


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 10MHz QPSK			
High Channel 3695MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
				
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
				

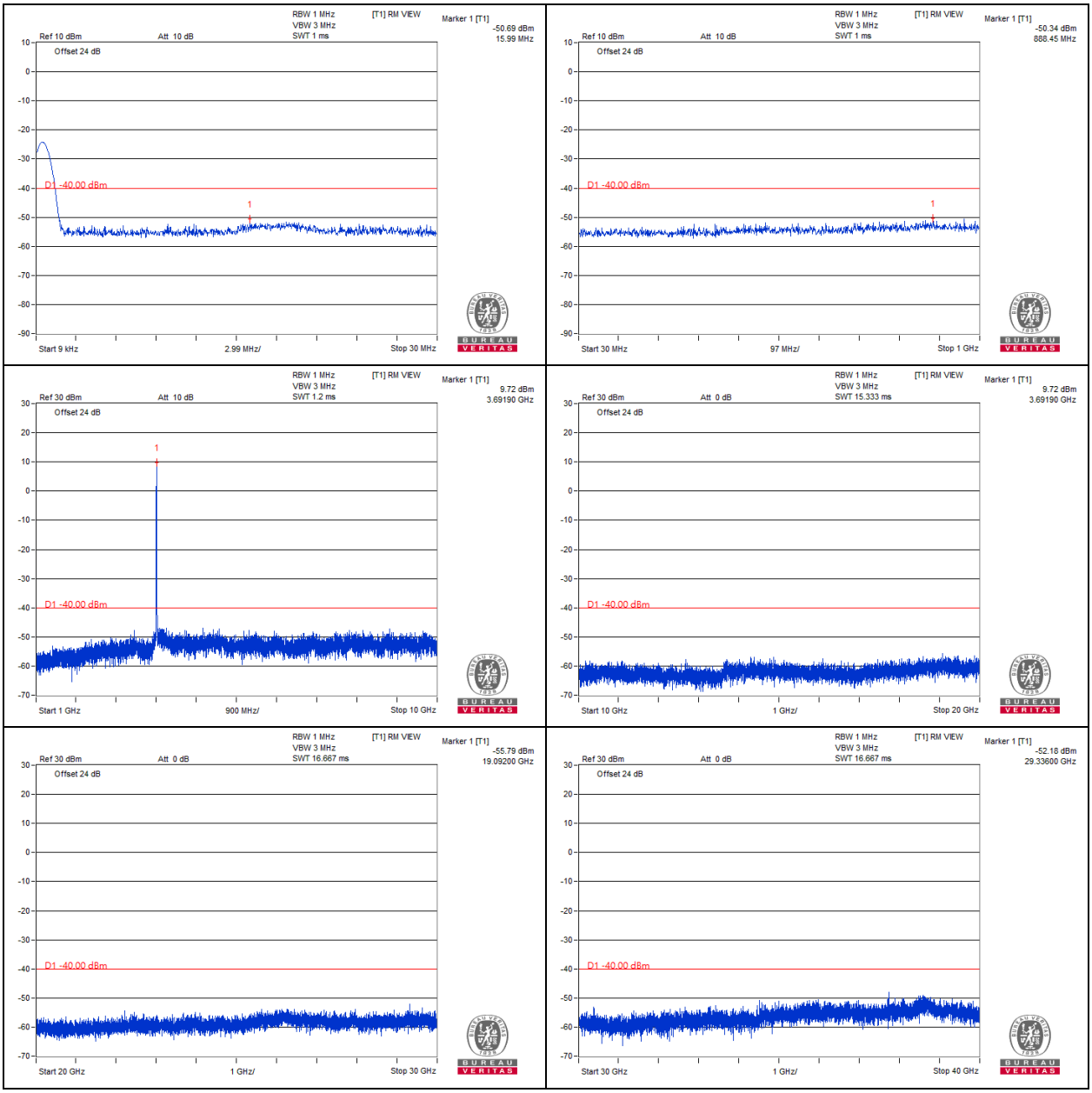
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm
B MHz below the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

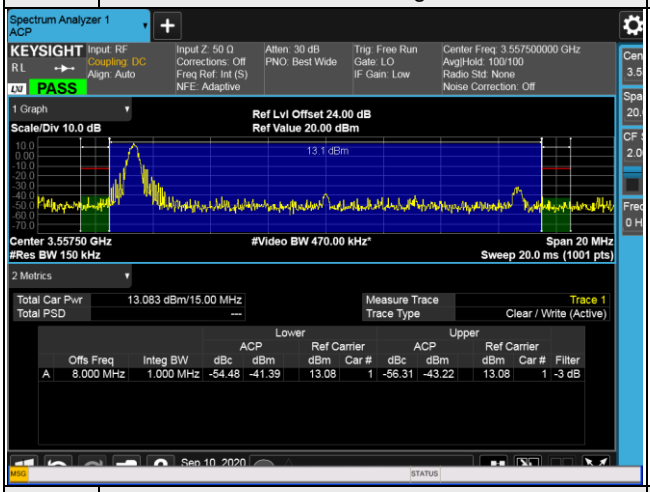
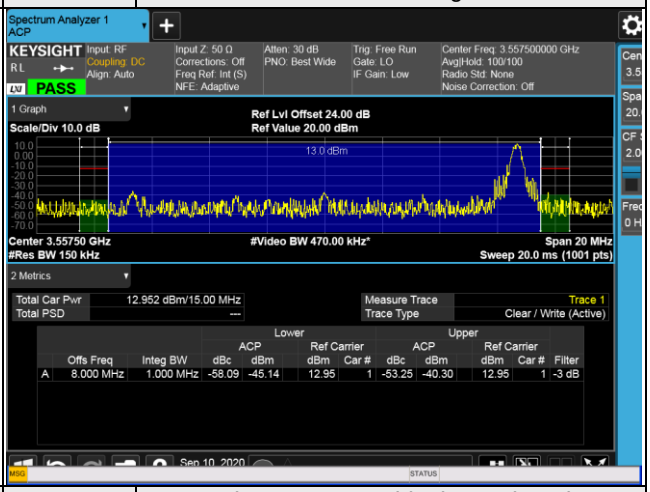
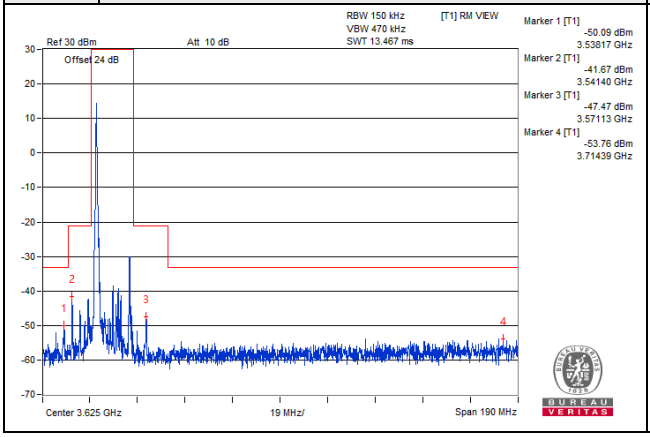
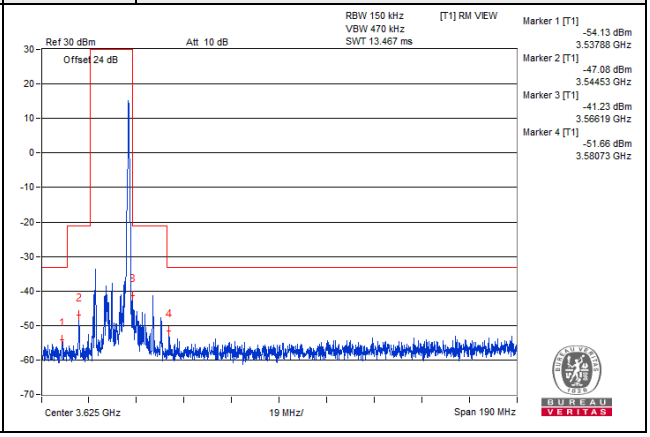
Channel Bandwidth 10MHz QPSK			
High Channel 3695MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm
B MHz below the Assigned channel Limit is -25+10*Log(100kHz/1MHz) = -35 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

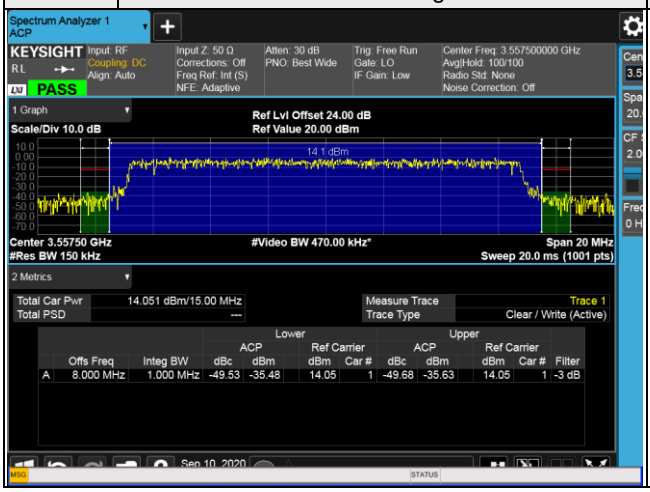
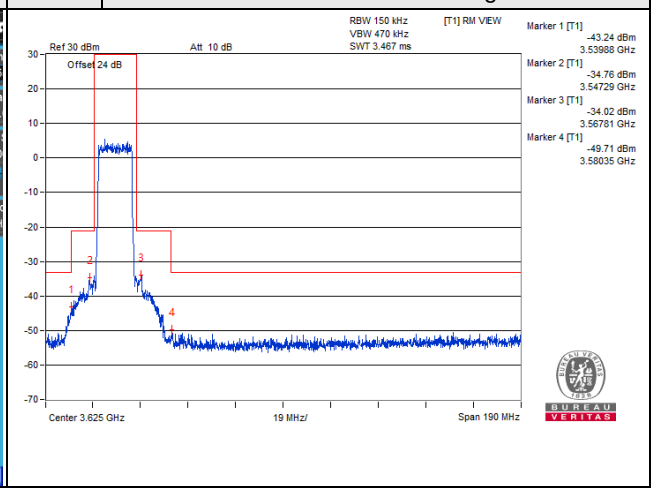


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 15MHz QPSK			
Low Channel 3557.5MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
				
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
				

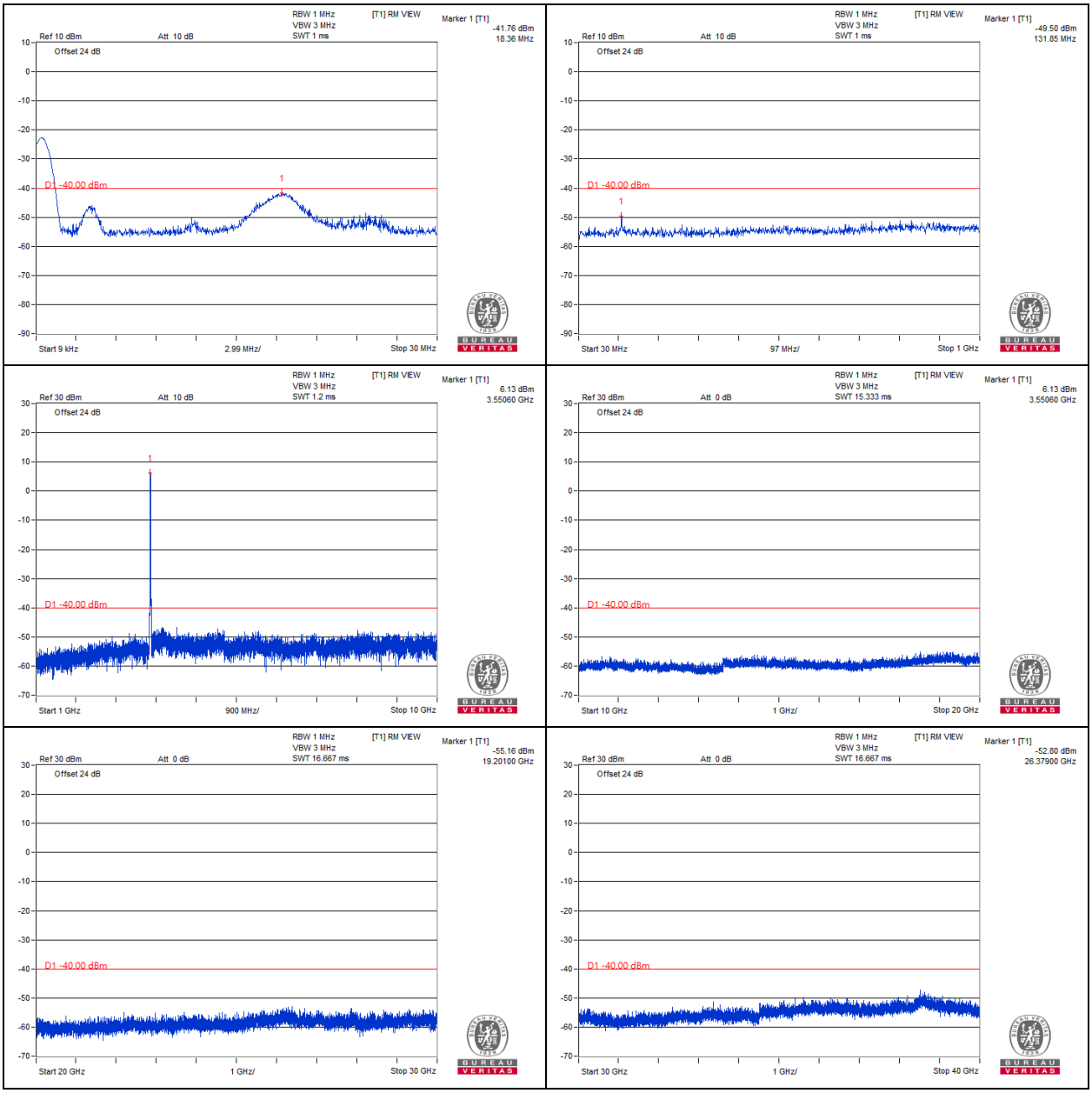
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
B MHz above the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm
B MHz below the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

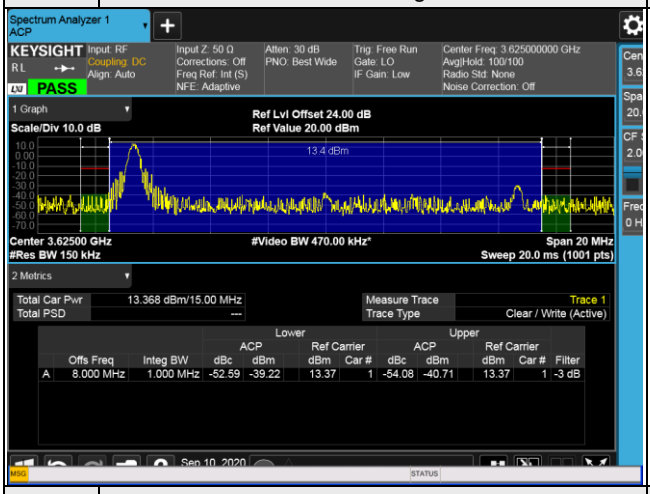
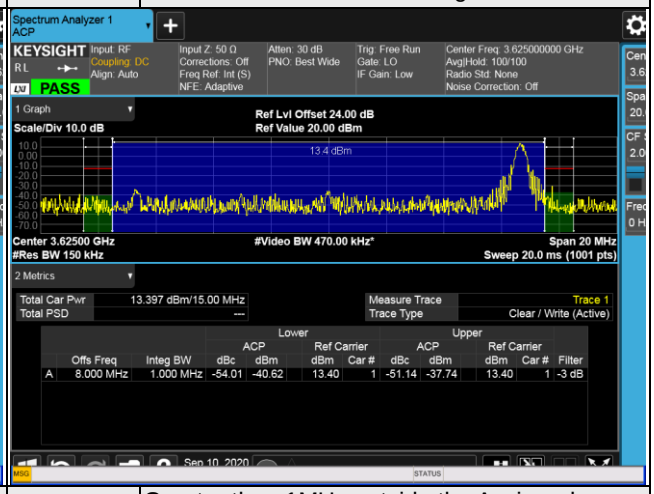
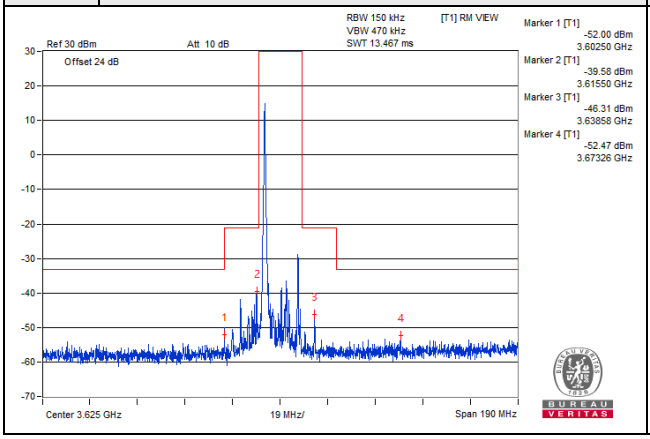
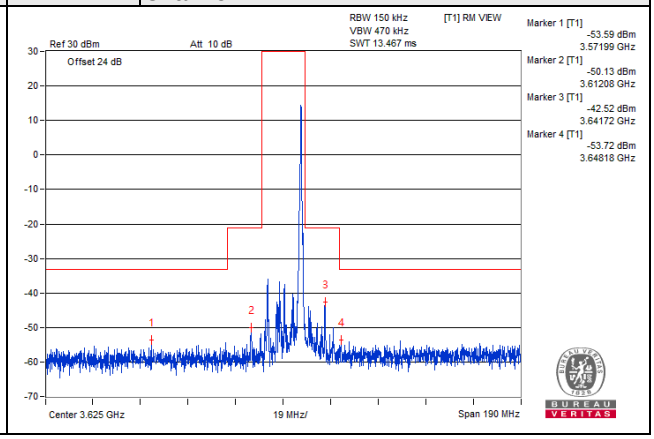
Channel Bandwidth 15MHz QPSK			
Low Channel 3557.5MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
B MHz above the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm
B MHz below the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

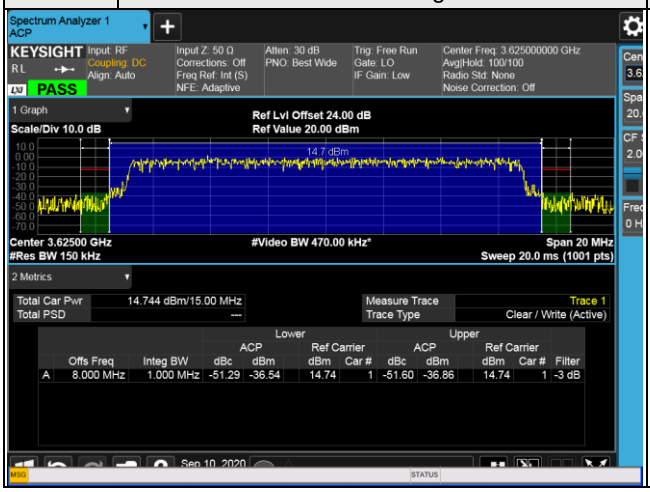
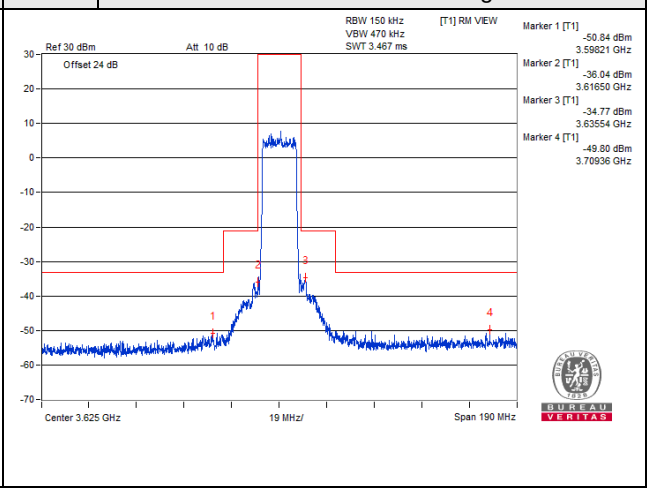


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 15MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
				
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
				

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
B MHz above the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm
B MHz below the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.

Channel Bandwidth 15MHz QPSK			
Middle Channel 3625MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
B MHz above the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm
B MHz below the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm

“B” is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device.