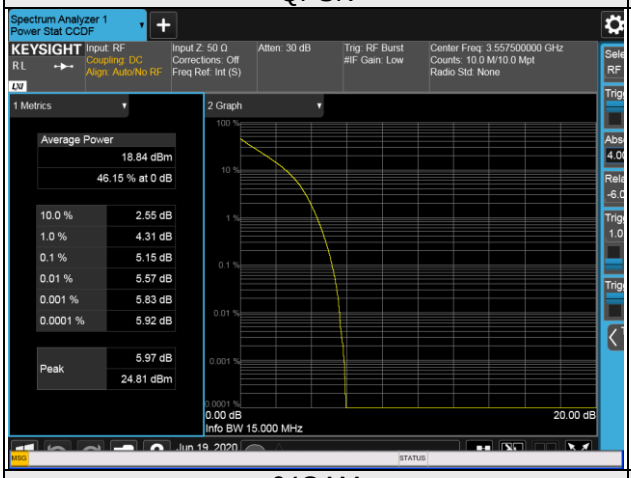
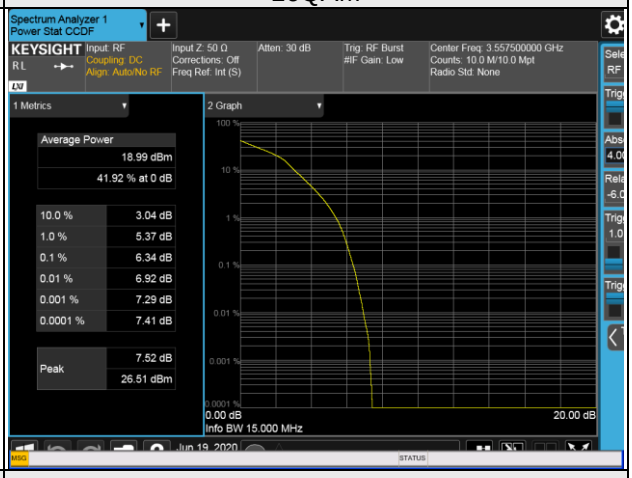
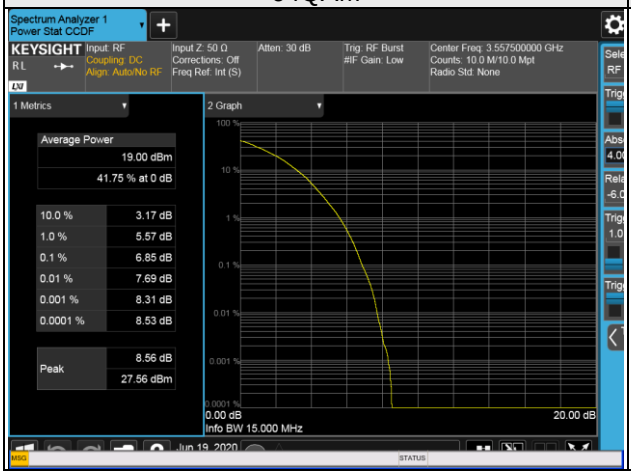
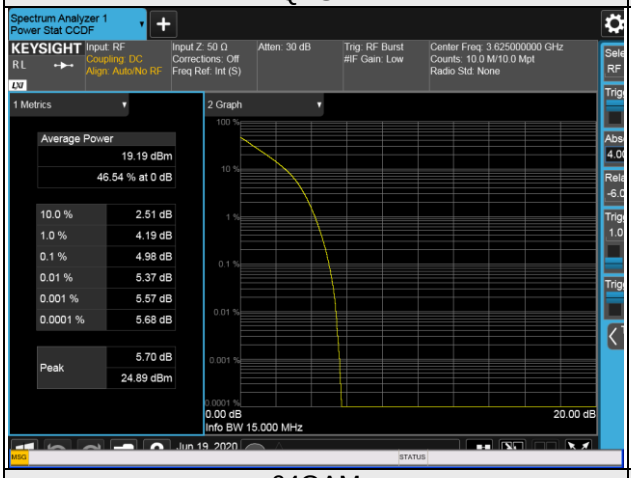
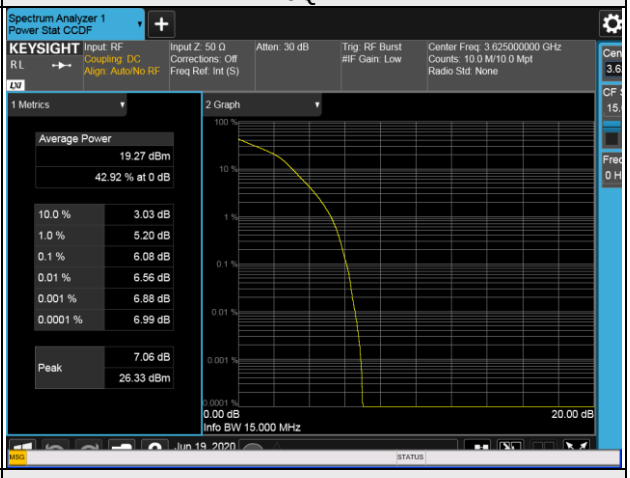
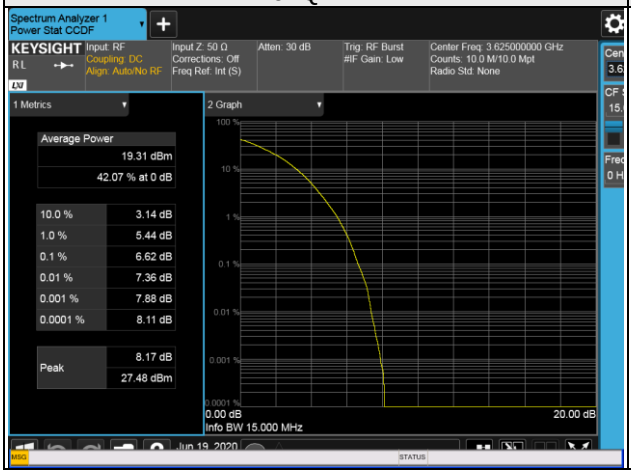
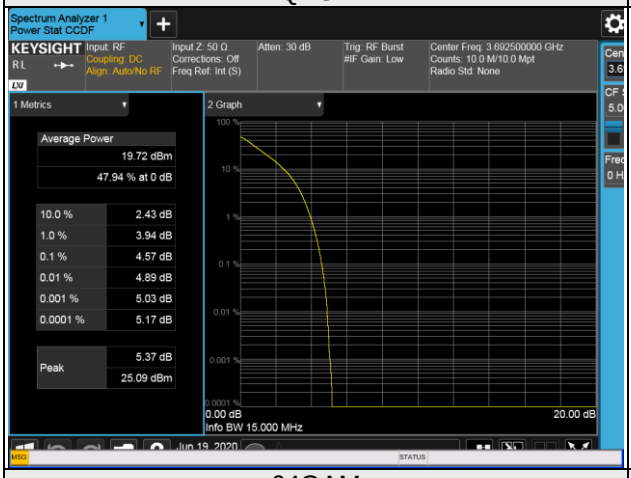
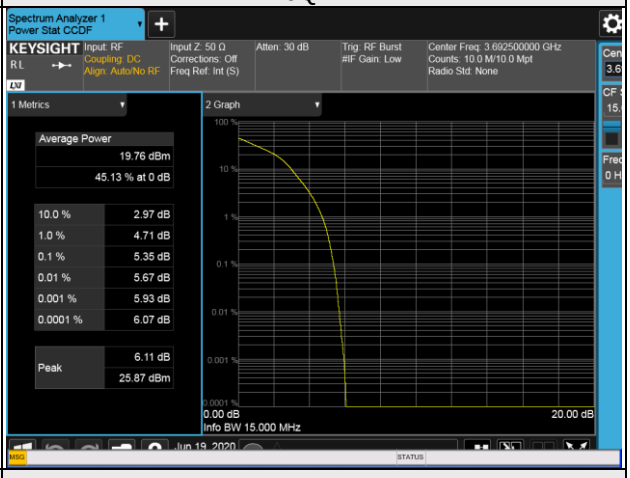
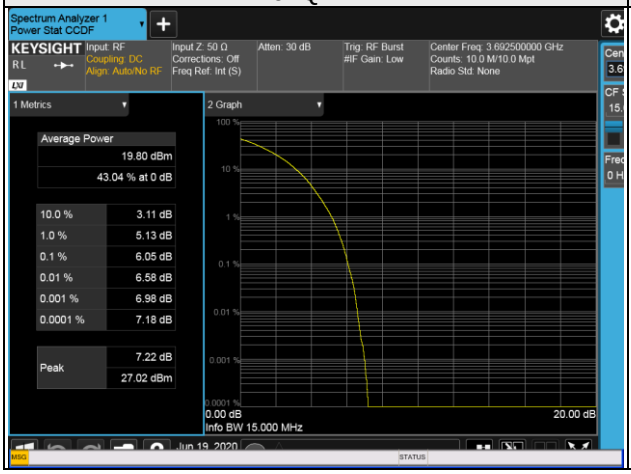
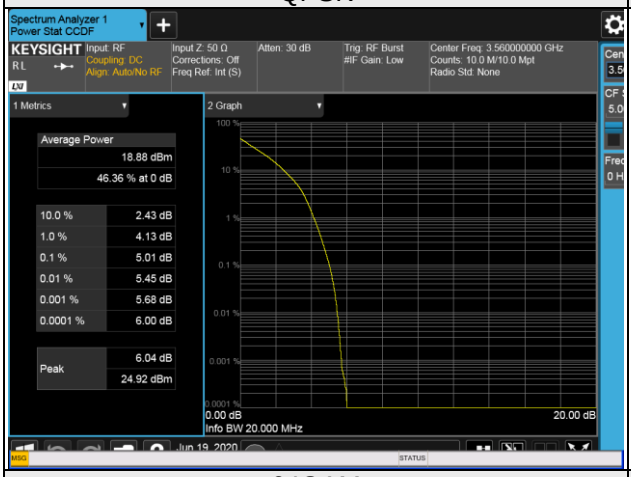
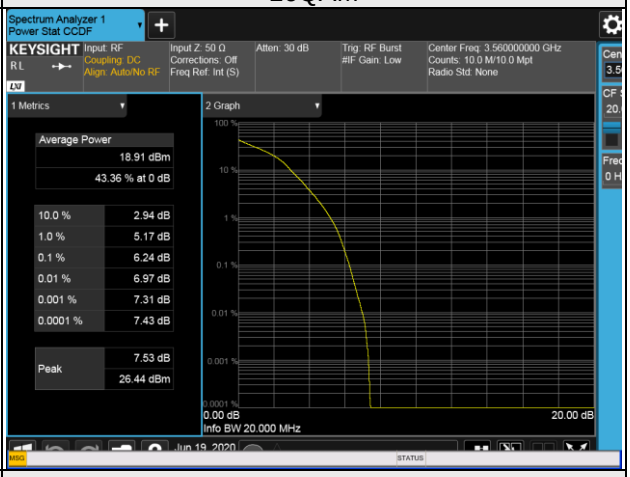
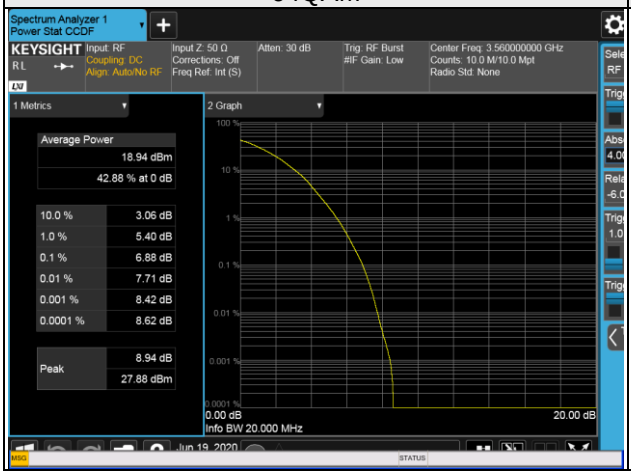
15MHz:

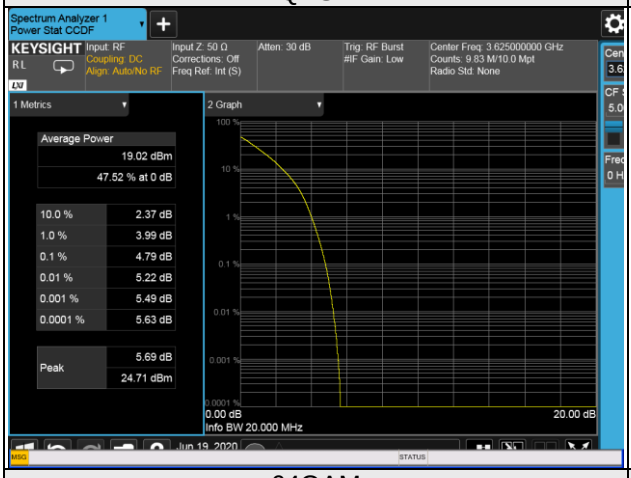
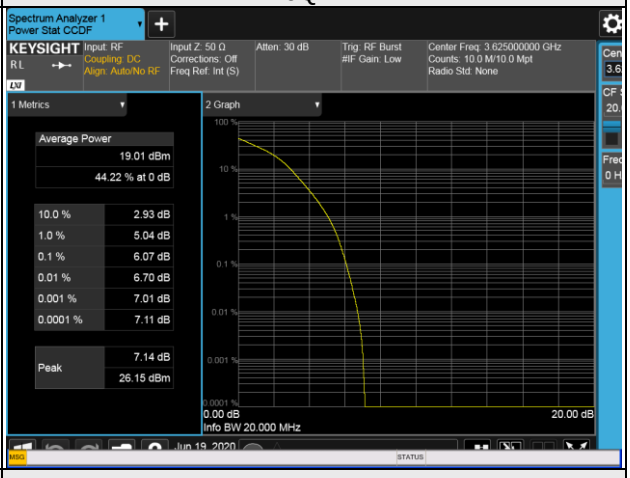
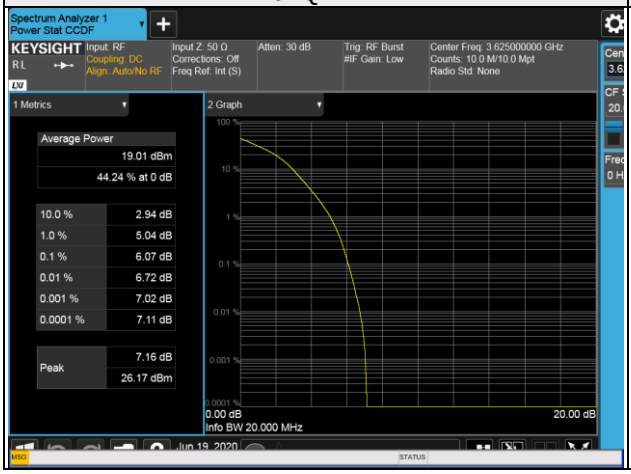
Spectrum Plot of Value	
Low	
QPSK	16QAM
	
64QAM	
	

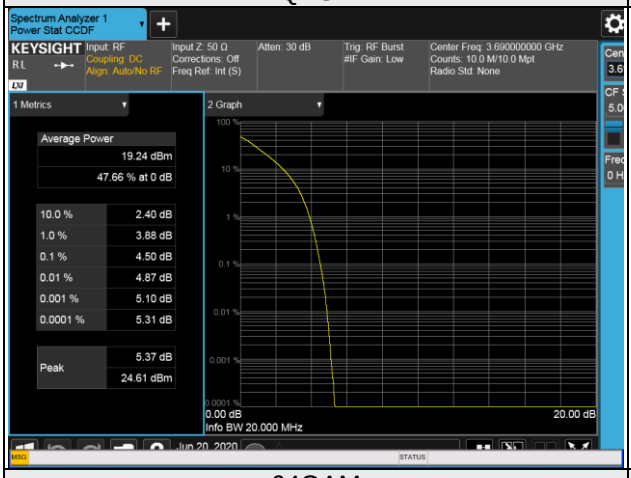
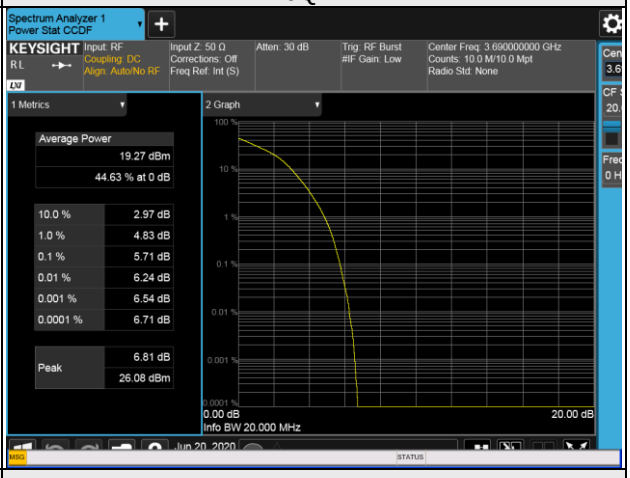
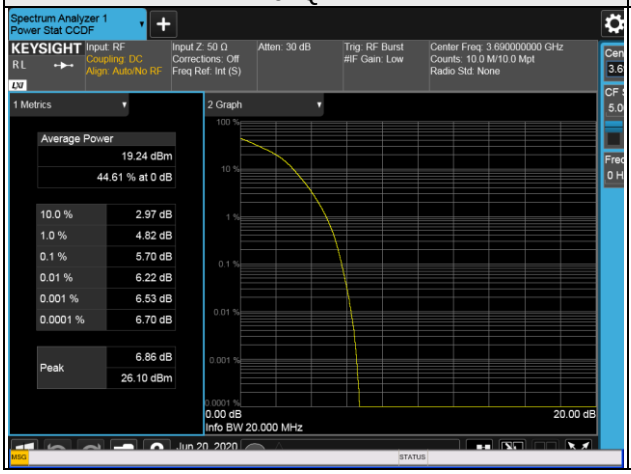
Middle	
QPSK	16QAM
	
64QAM	
	

High	
QPSK	16QAM
	
64QAM	
	

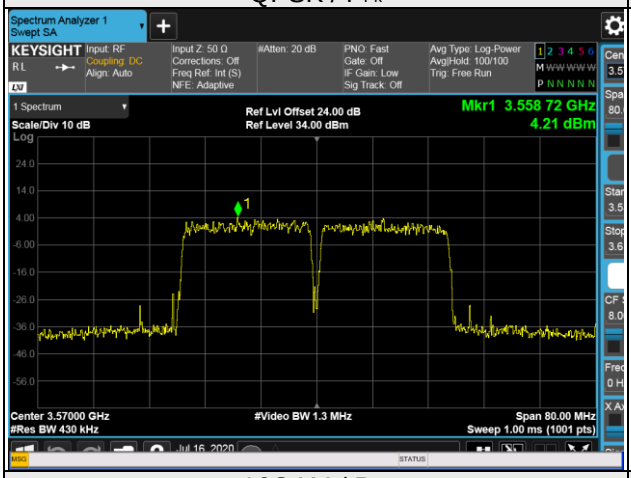
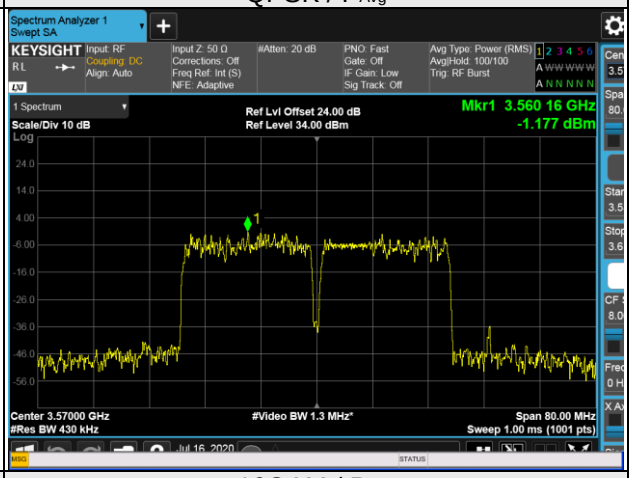
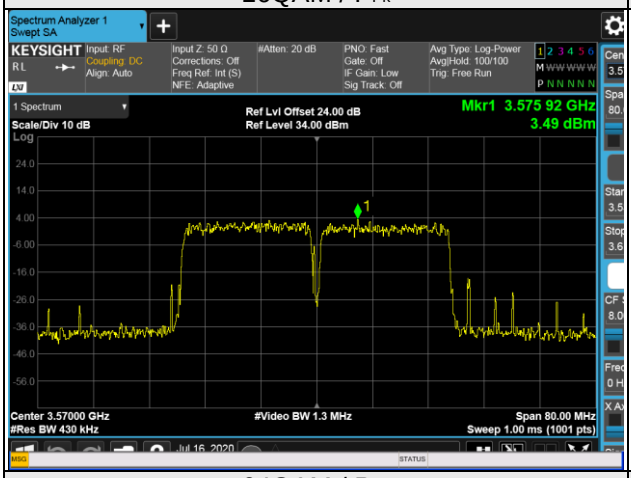
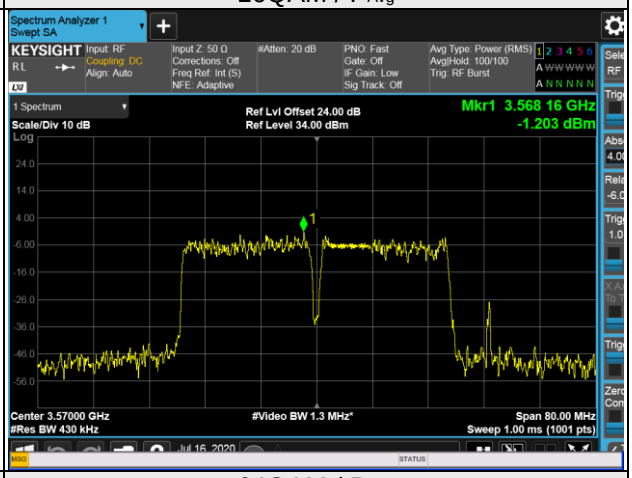
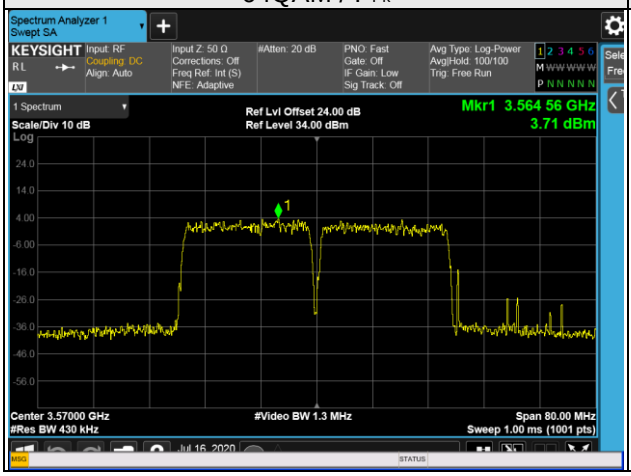
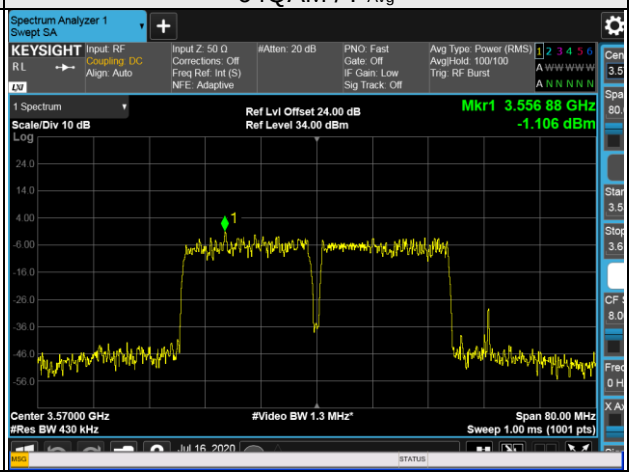
20MHz:

Spectrum Plot of Value	
Low	
QPSK	16QAM
	
64QAM	
	

Middle	
QPSK	16QAM
	
64QAM	
	

High	
QPSK	16QAM
	
64QAM	
	

20MHz+20MHz:

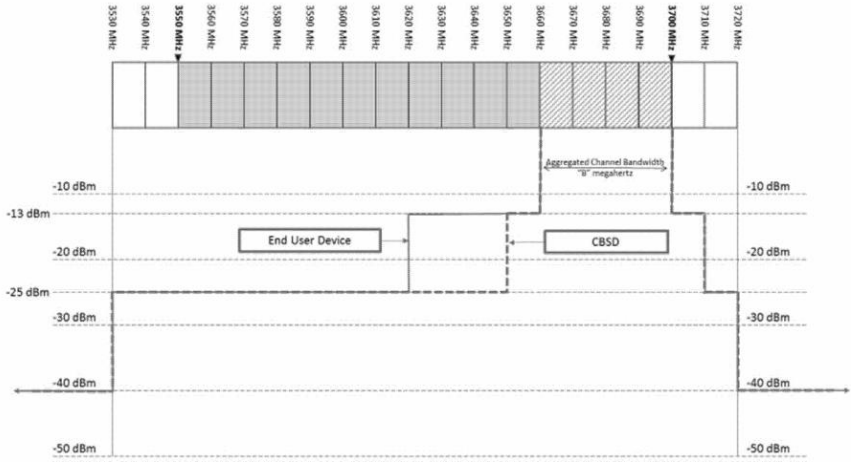
Spectrum Plot of Value	
Worst case	
QPSK / P_{Pk}	QPSK / P_{Avg}
	
16QAM / P_{Pk}	16QAM / P_{Avg}
	
64QAM / P_{Pk}	64QAM / P_{Avg}
	

4.5 Conducted Spurious Emissions

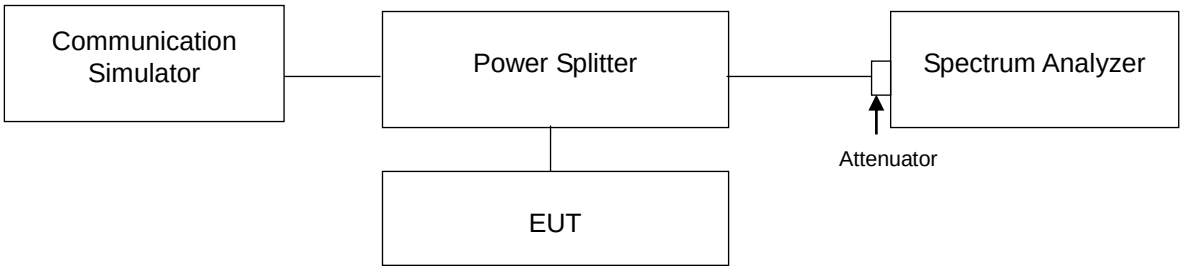
4.5.1 Limits of Conducted Spurious Emissions Measurement

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

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



4.5.2 Test Setup



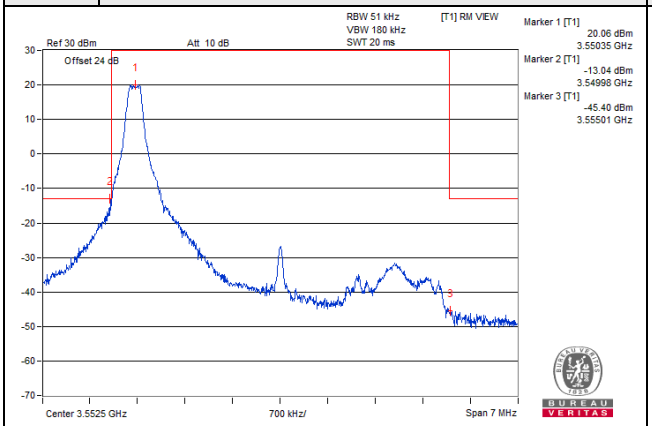
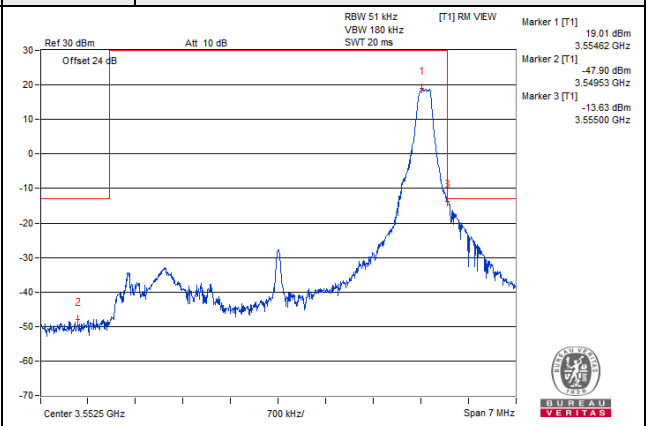
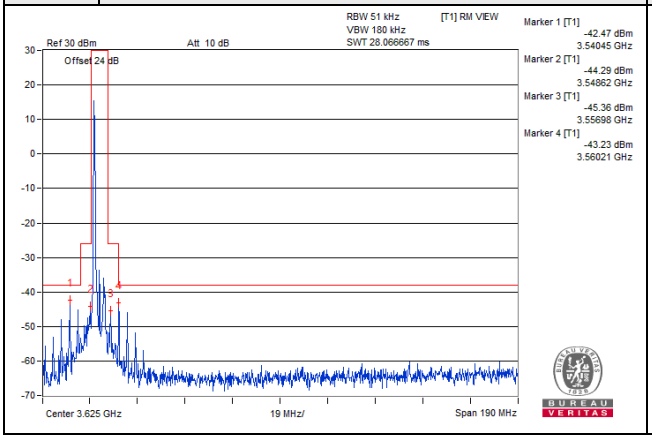
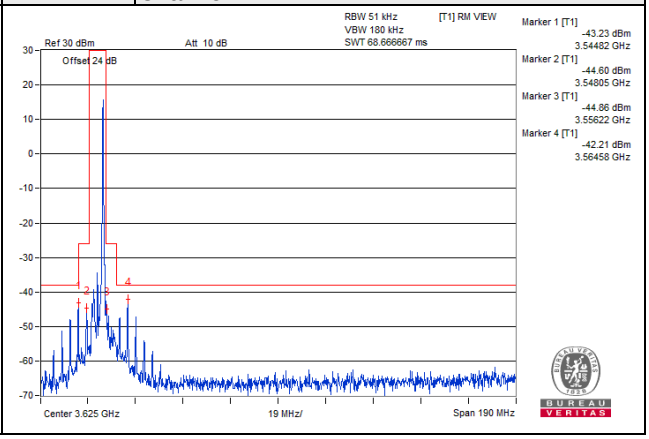
4.5.3 Test Instruments

Refer to section 4.1.3 to get information of above instrument.

4.5.4 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 37.5 GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

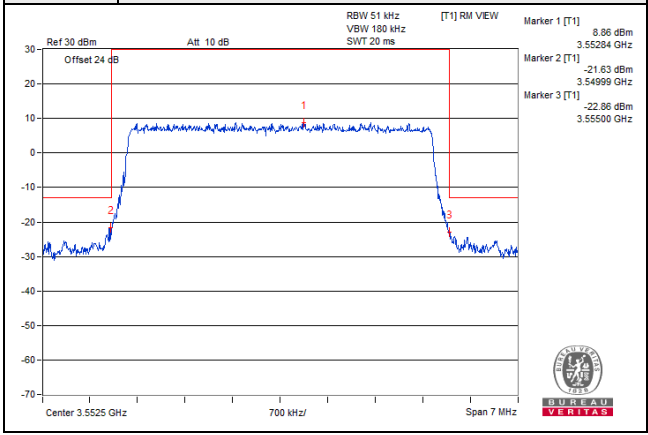
4.5.5 Test Results

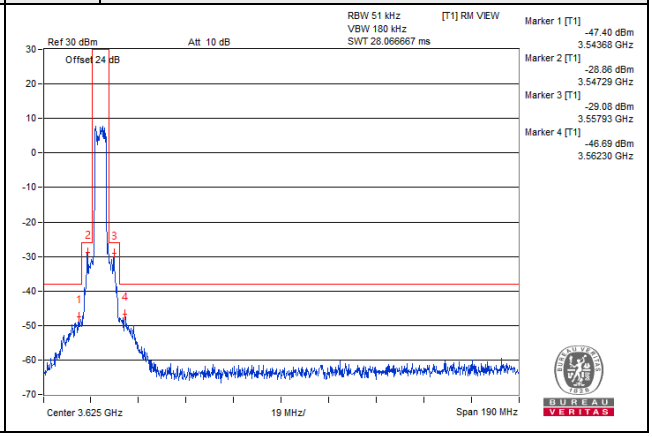
LTE Band 48			
Channel Bandwidth 5MHz QPSK			
Low Channel 3552.5MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
		
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
		

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.

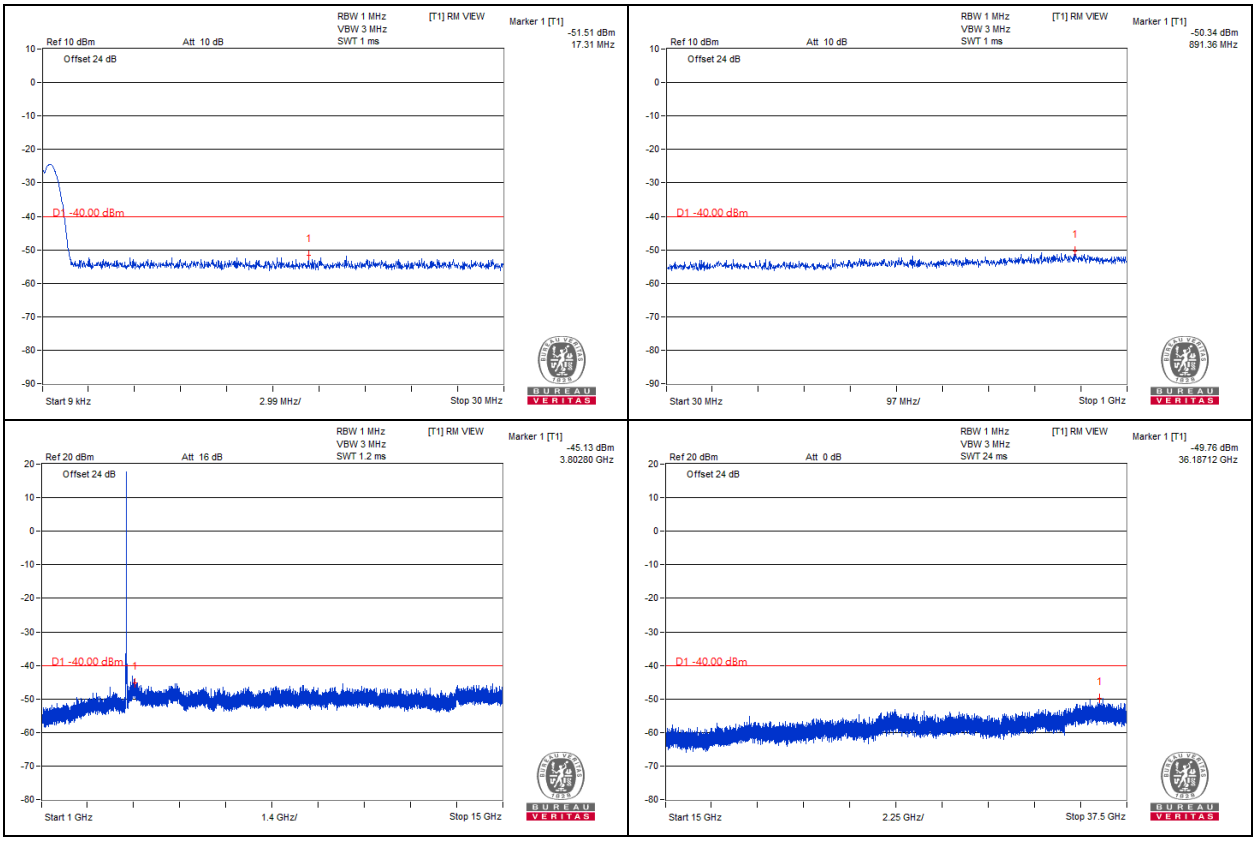
LTE Band 48			
Channel Bandwidth 5MHz QPSK			
Low Channel 3552.5MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



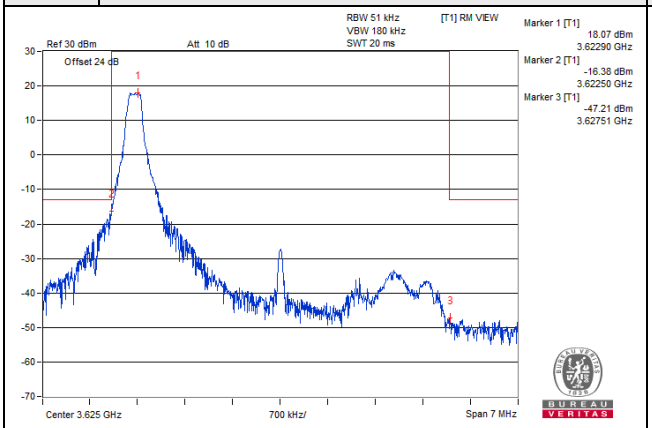
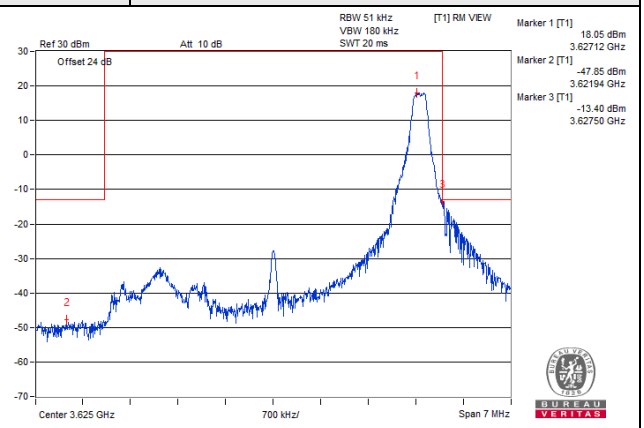
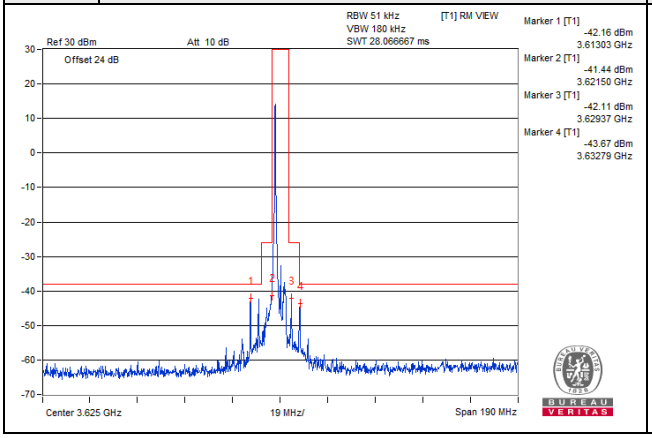
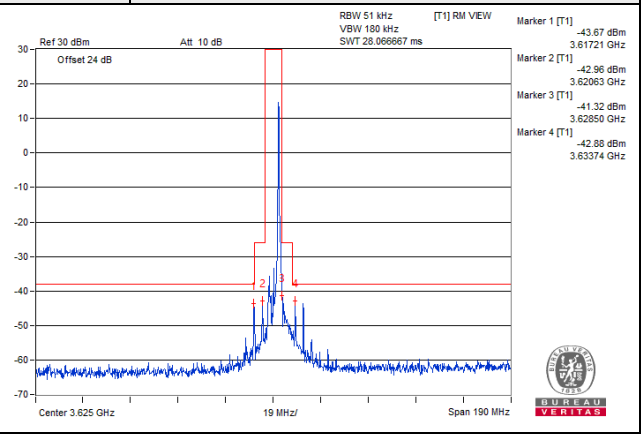


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned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



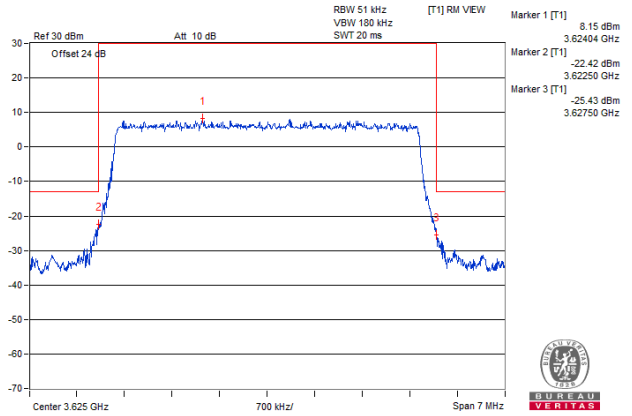
Note: The signal of 9kHz is IF signal from test instrument.

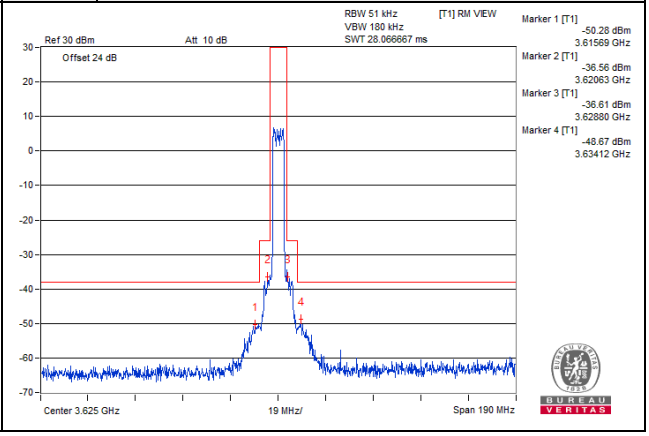
Channel Bandwidth 5MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

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			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel





NOTE:
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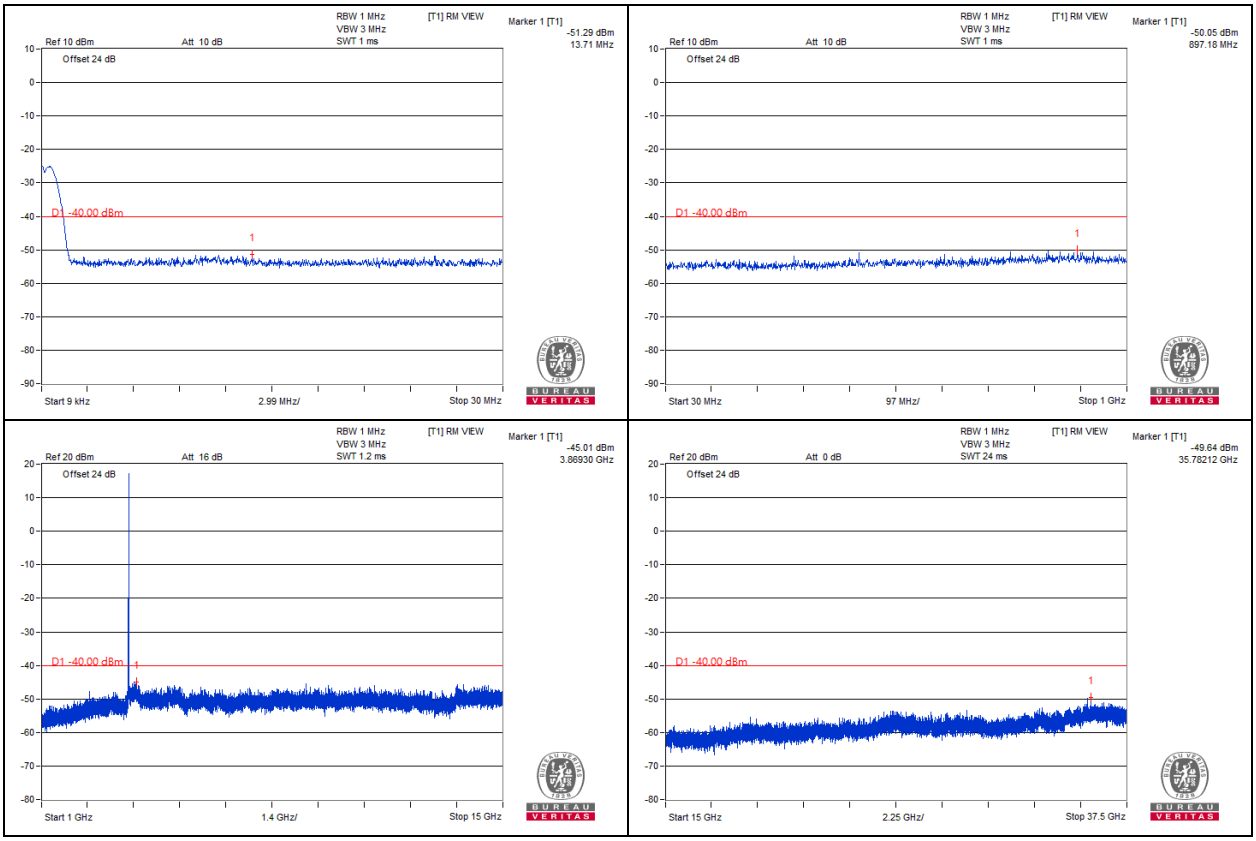
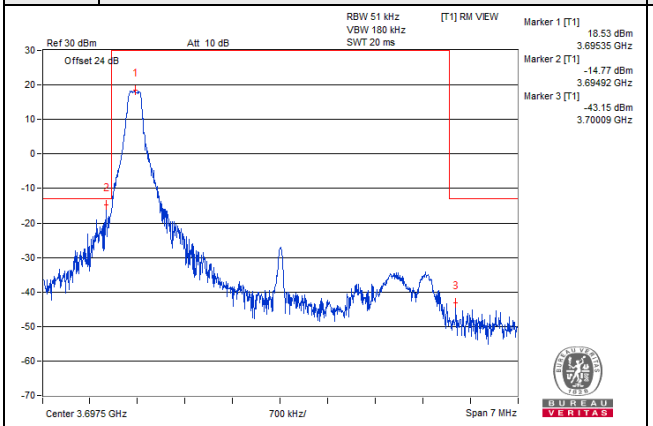
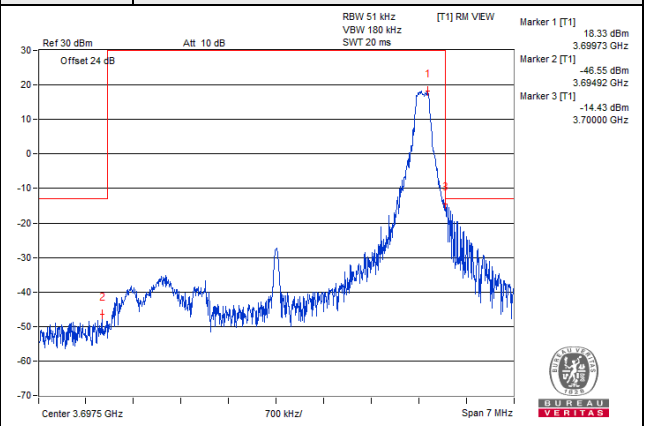
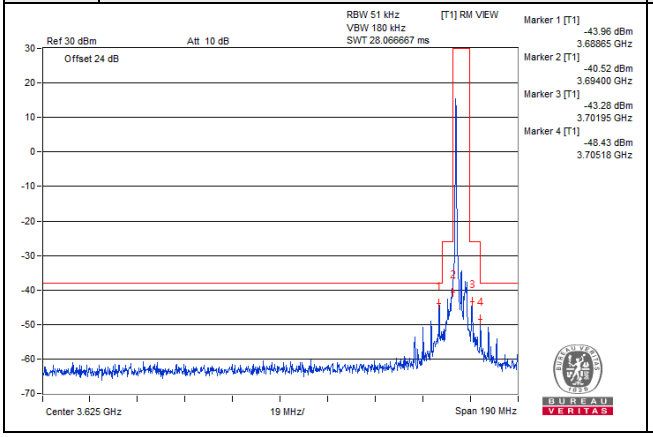
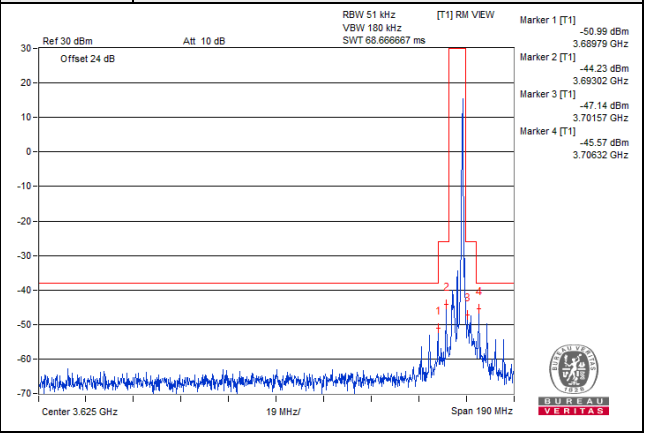
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm
B MHz below the Assigned channel Limit is -25+10*Log(51kHz/1MHz) = -37.92 dBm

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



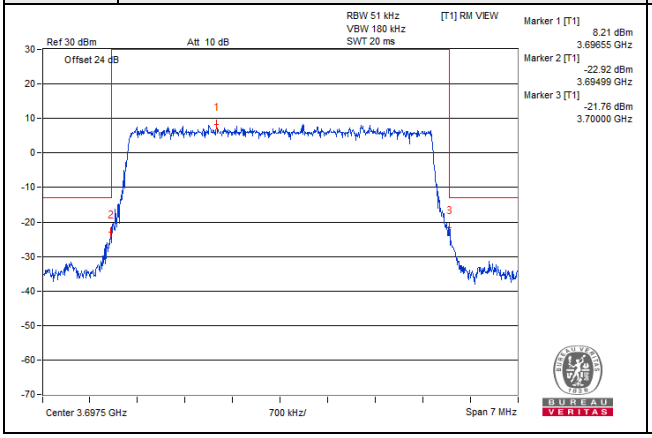
Note: The signal of 9kHz is IF signal from test instrument.

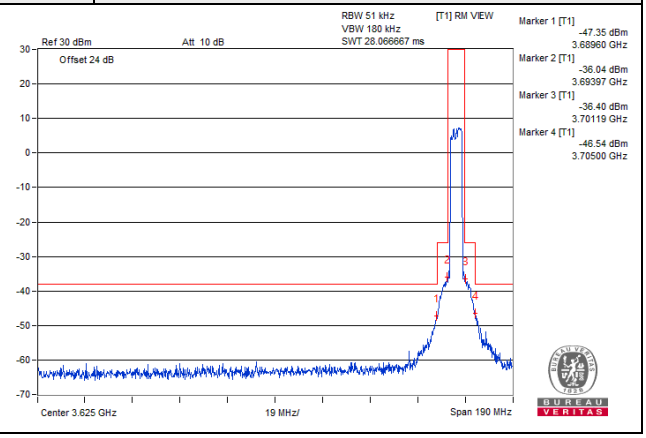
Channel Bandwidth 5MHz QPSK			
High Channel 3697.5MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

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.

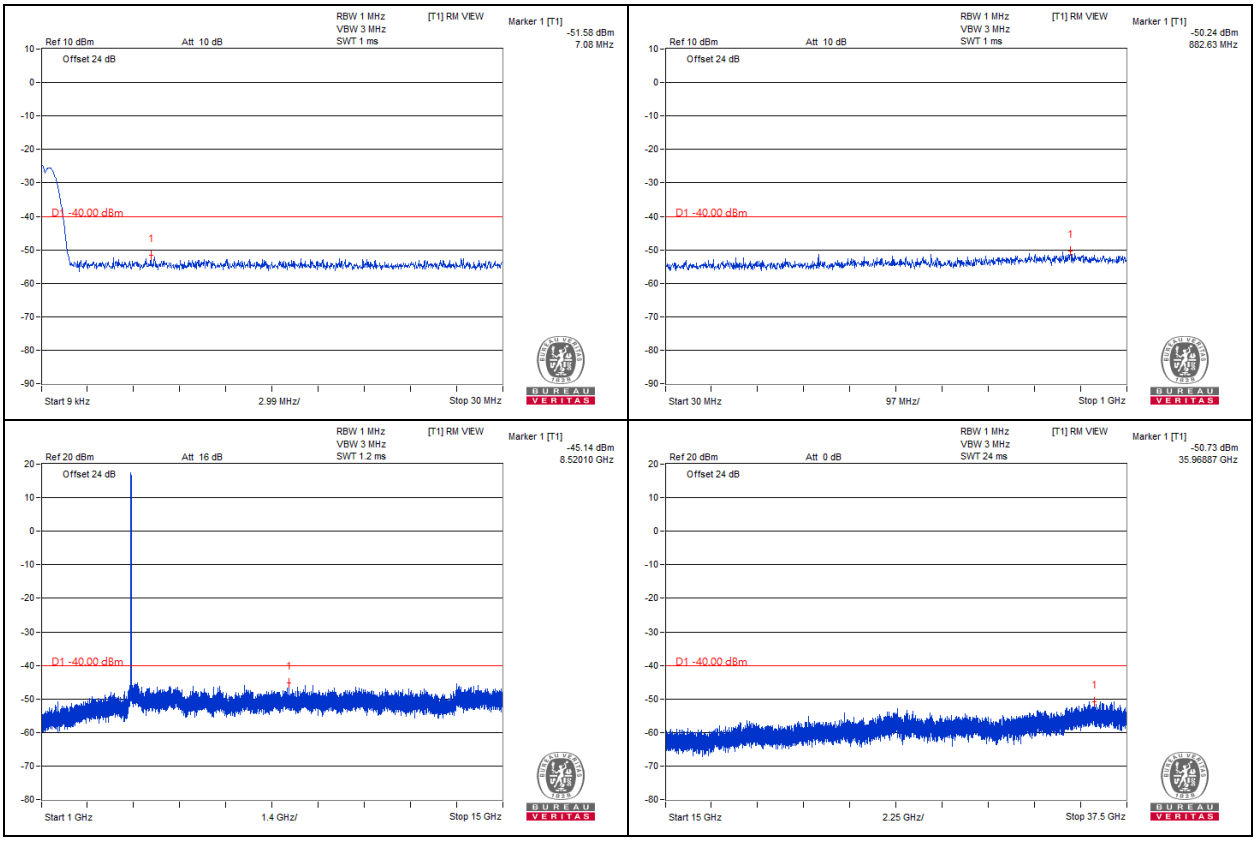
LTE Band 48			
High Channel 3697.5MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



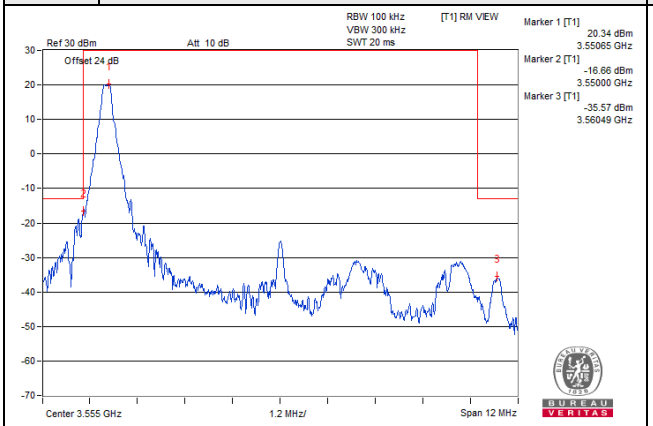
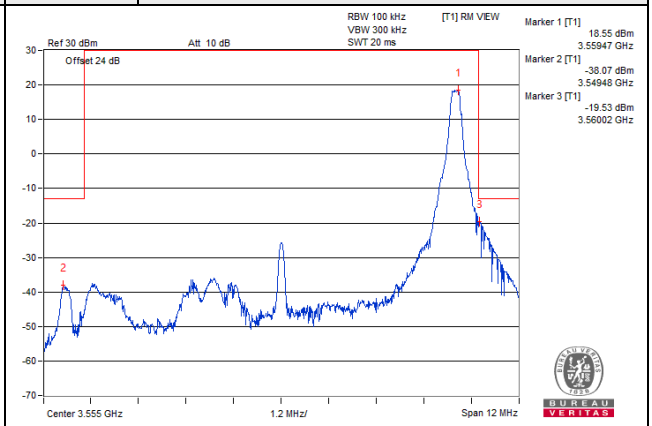
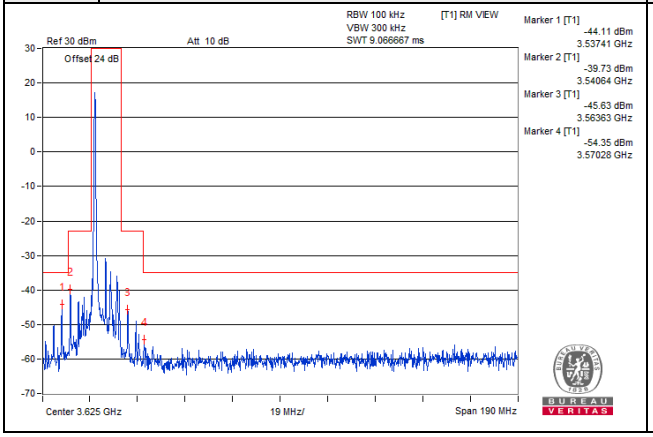
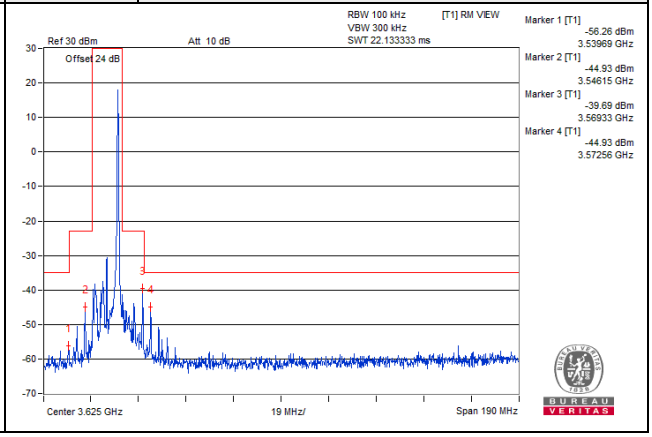


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(51kHz/1MHz) = -25.92 dBm
B MHz above the Assigned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

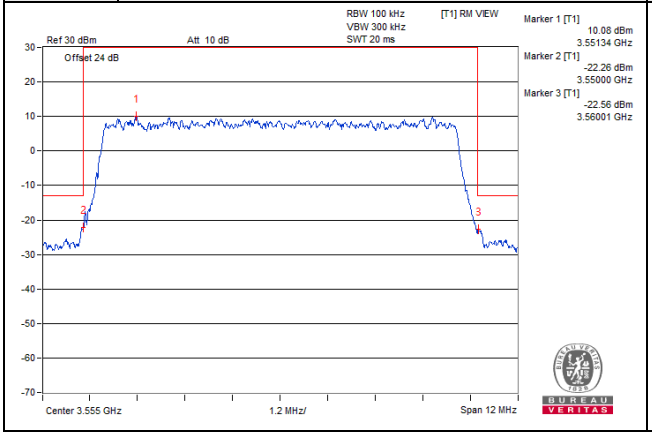
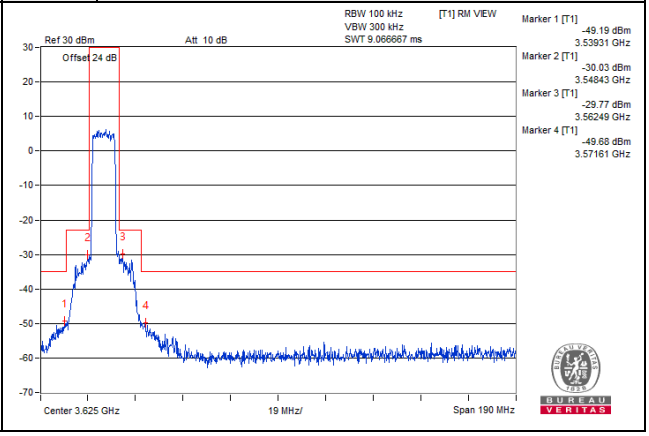


Note: The signal of 9kHz is IF signal from test instrument.

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
			

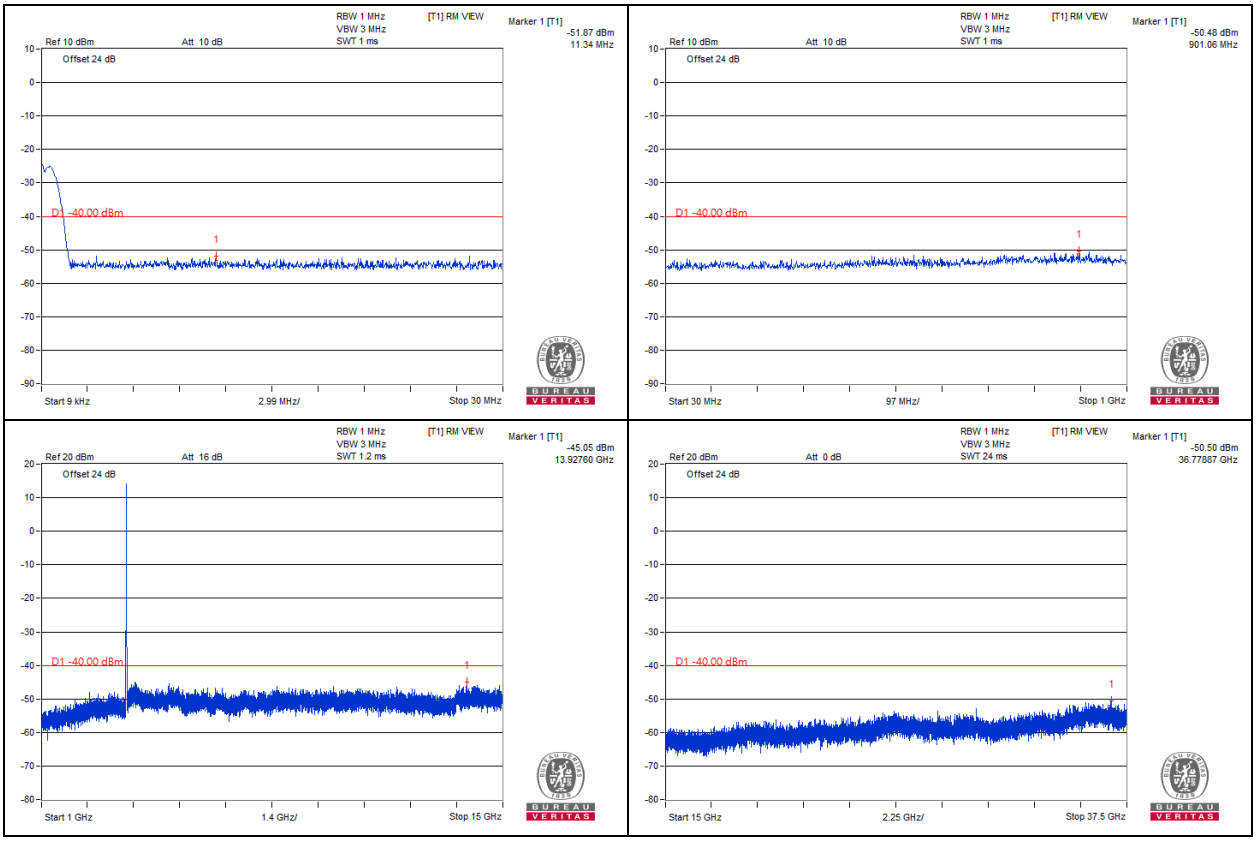
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel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

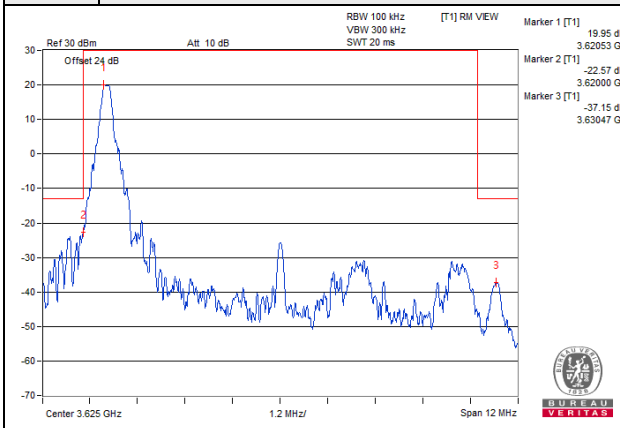
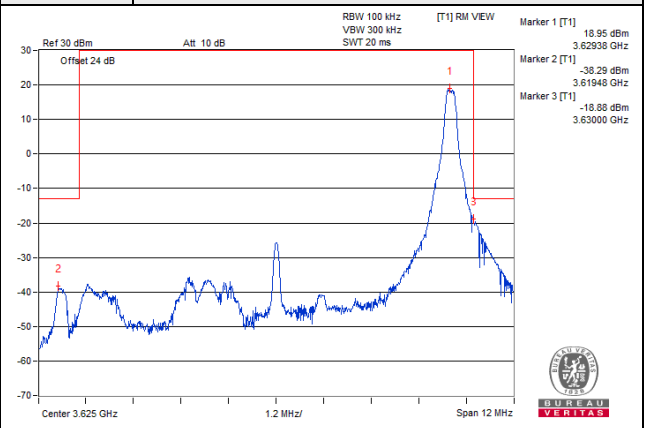
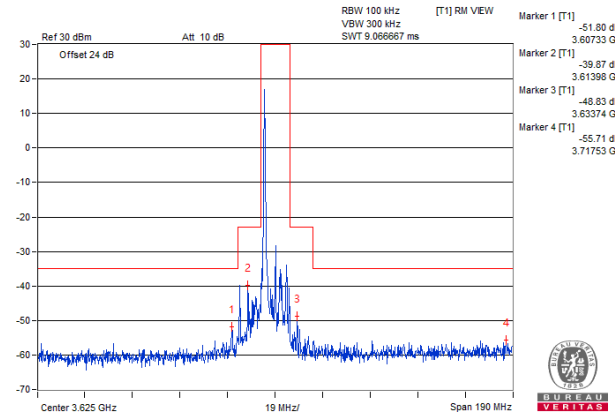
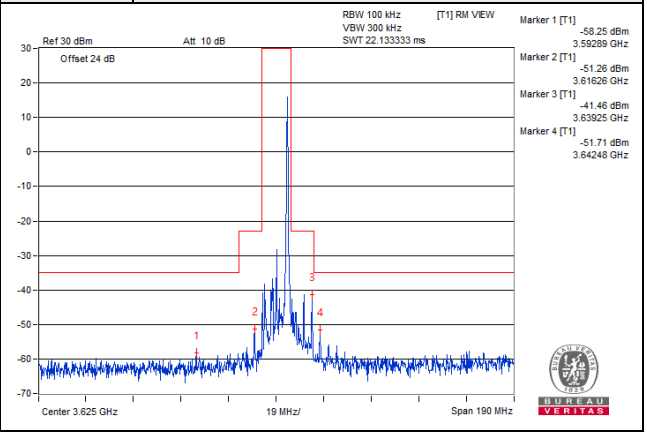
Channel Bandwidth 10MHz QPSK			
Low Channel 3555MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

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.



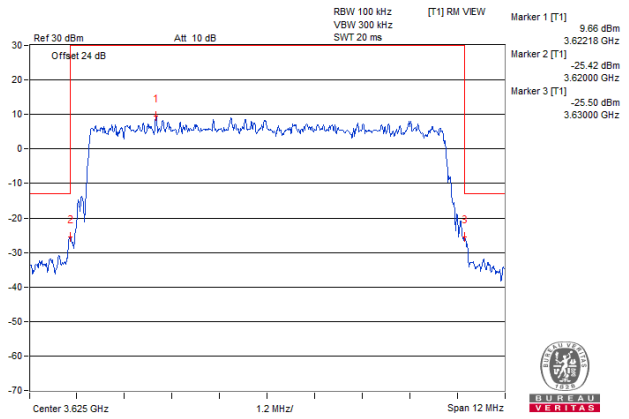
Note: The signal of 9kHz is IF signal from test instrument.

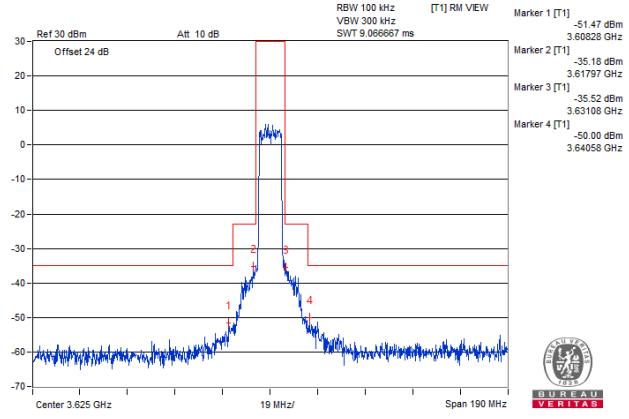
Channel Bandwidth 10MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

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.

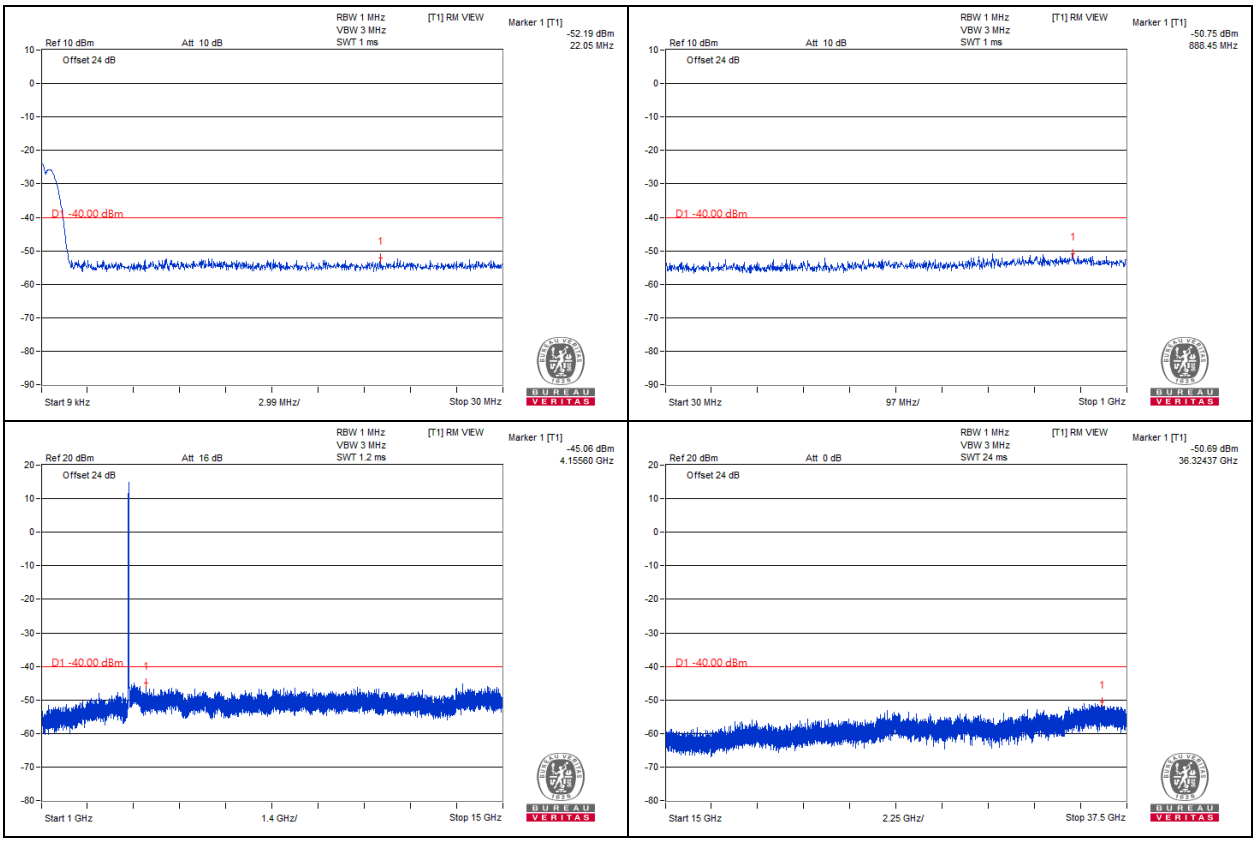
Channel Bandwidth 10MHz QPSK			
Middle Channel 3625MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



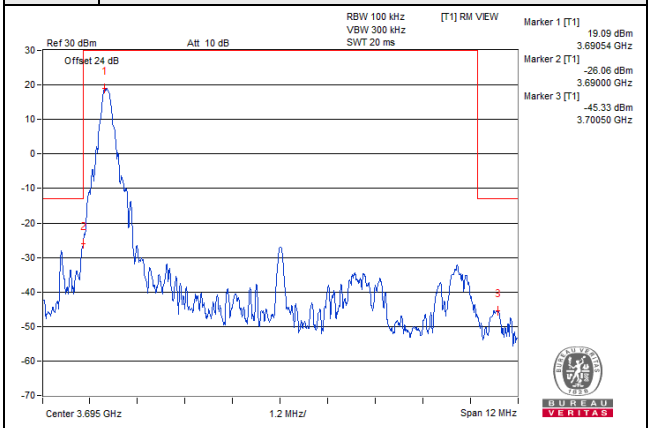
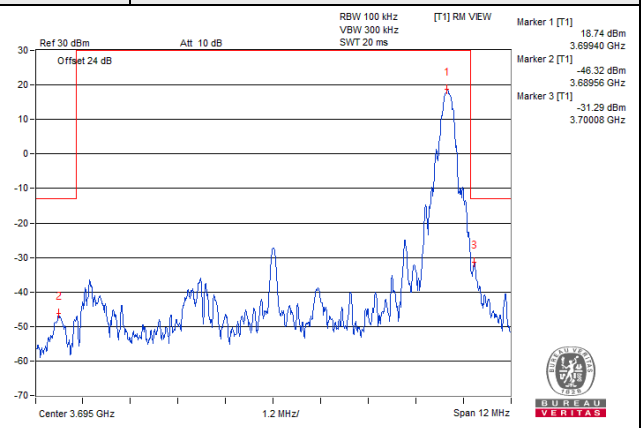
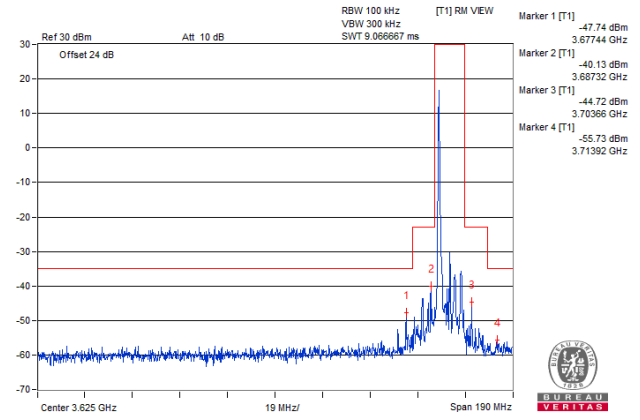
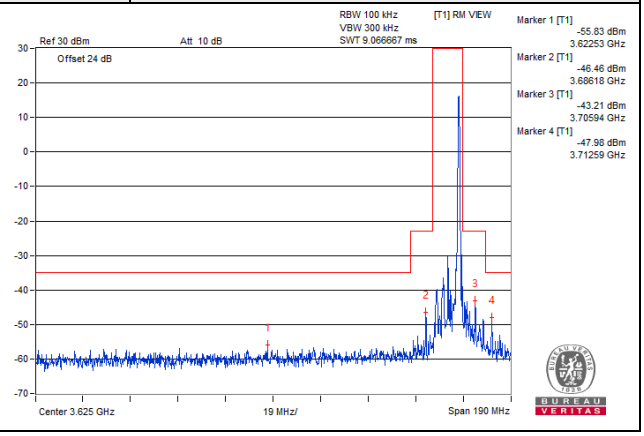


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel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



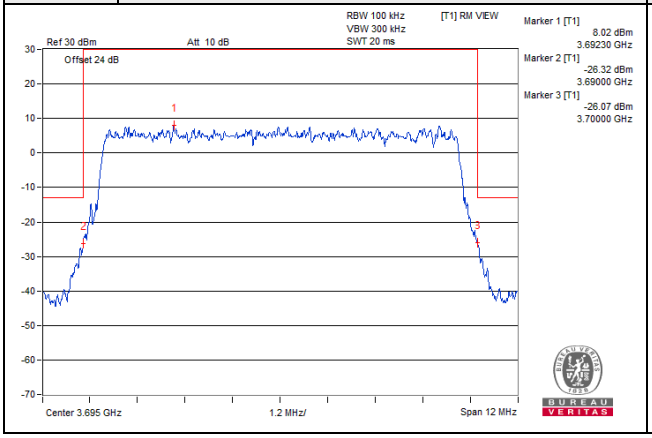
Note: The signal of 9kHz is IF signal from test instrument.

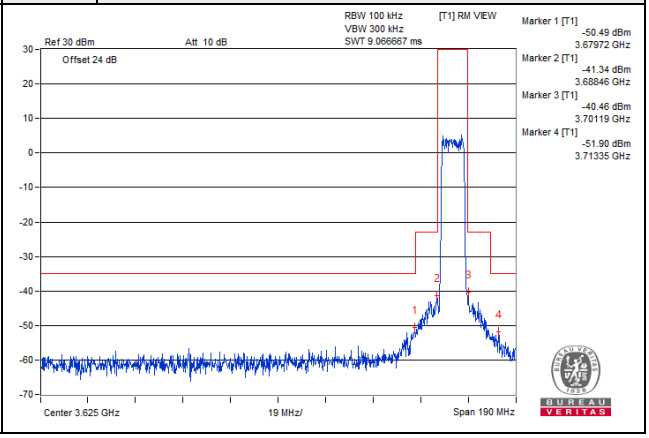
Channel Bandwidth 10MHz QPSK			
High Channel 3695MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

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.

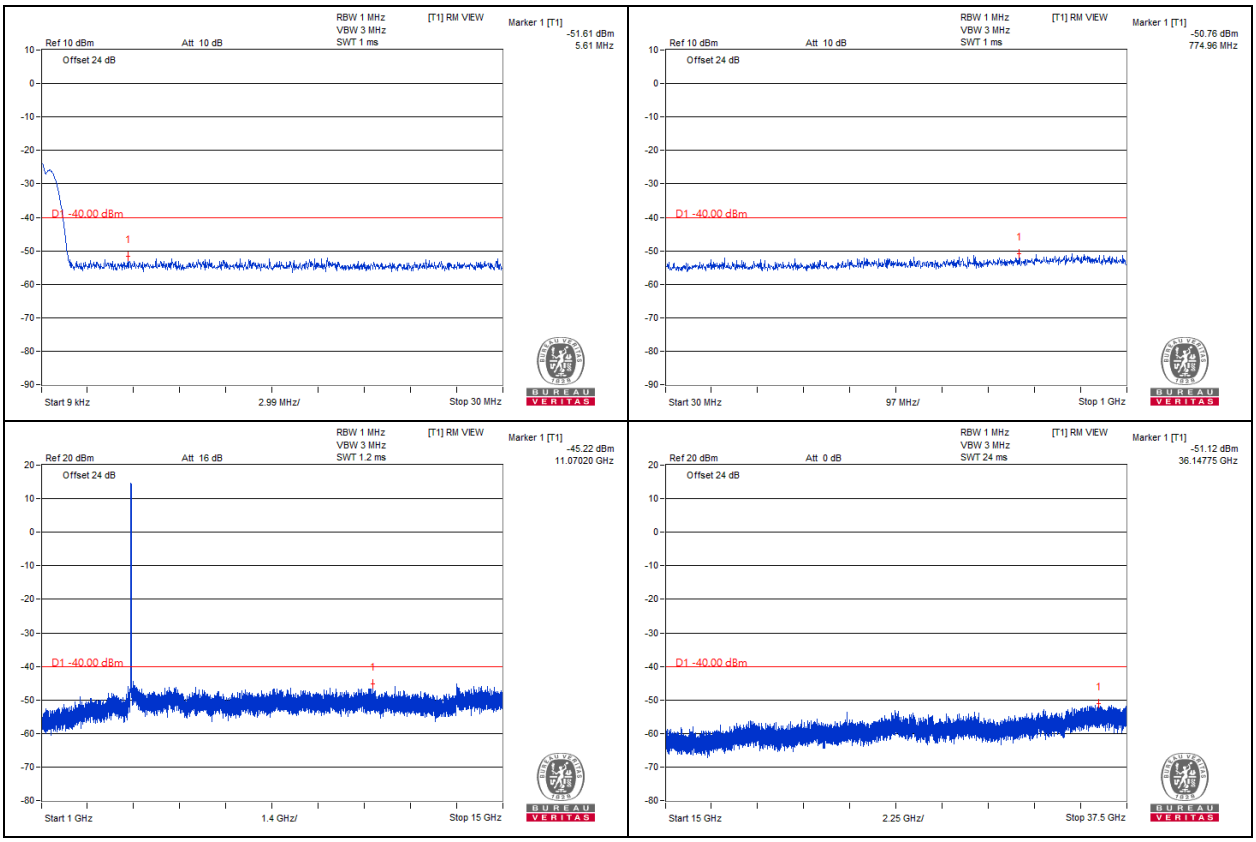
Channel Bandwidth 10MHz QPSK			
High Channel 3695MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



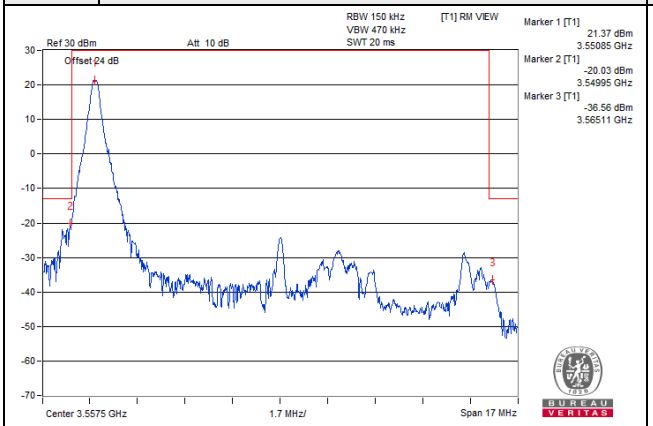
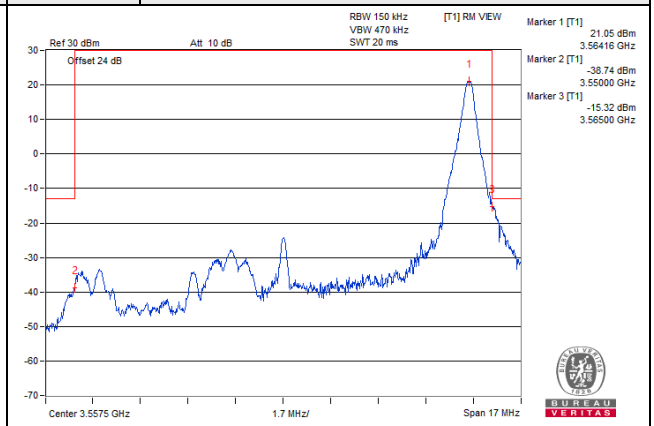
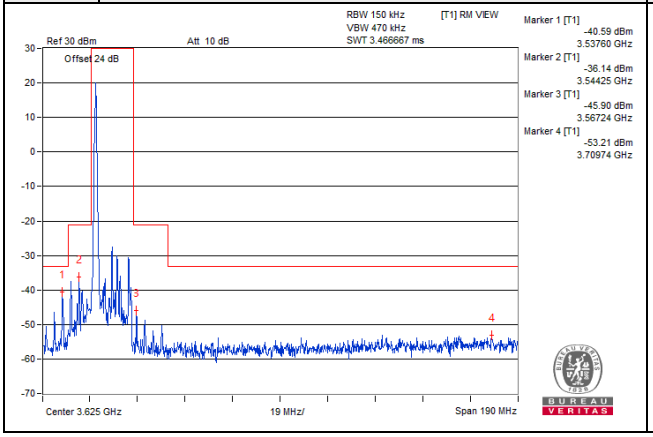
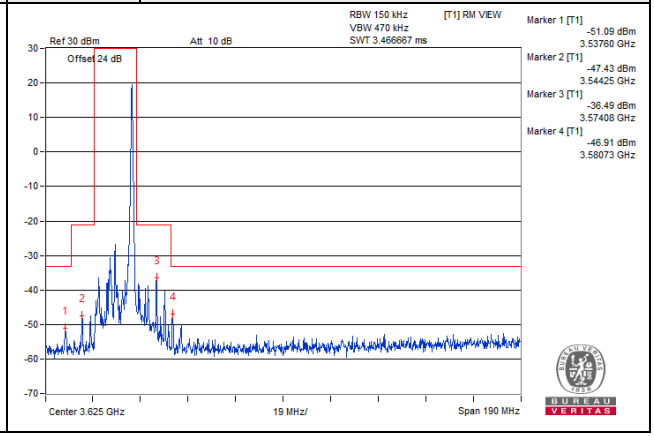


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(100kHz/1MHz) = -23 dBm
B MHz above the Assigned channel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

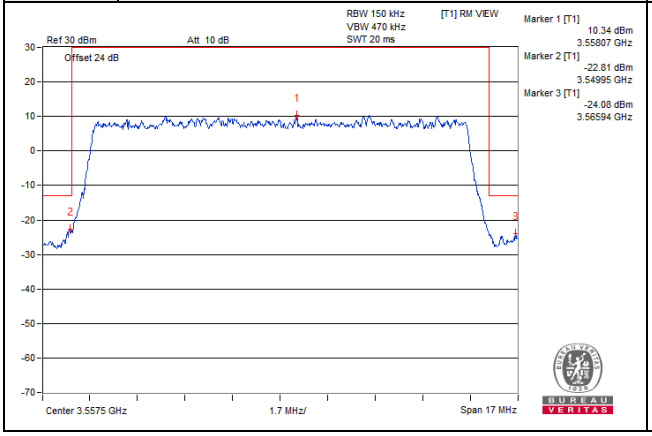
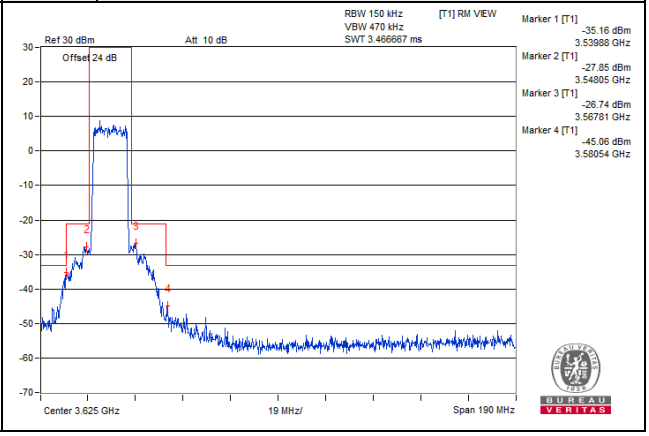


Note: The signal of 9kHz is IF signal from test instrument.

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
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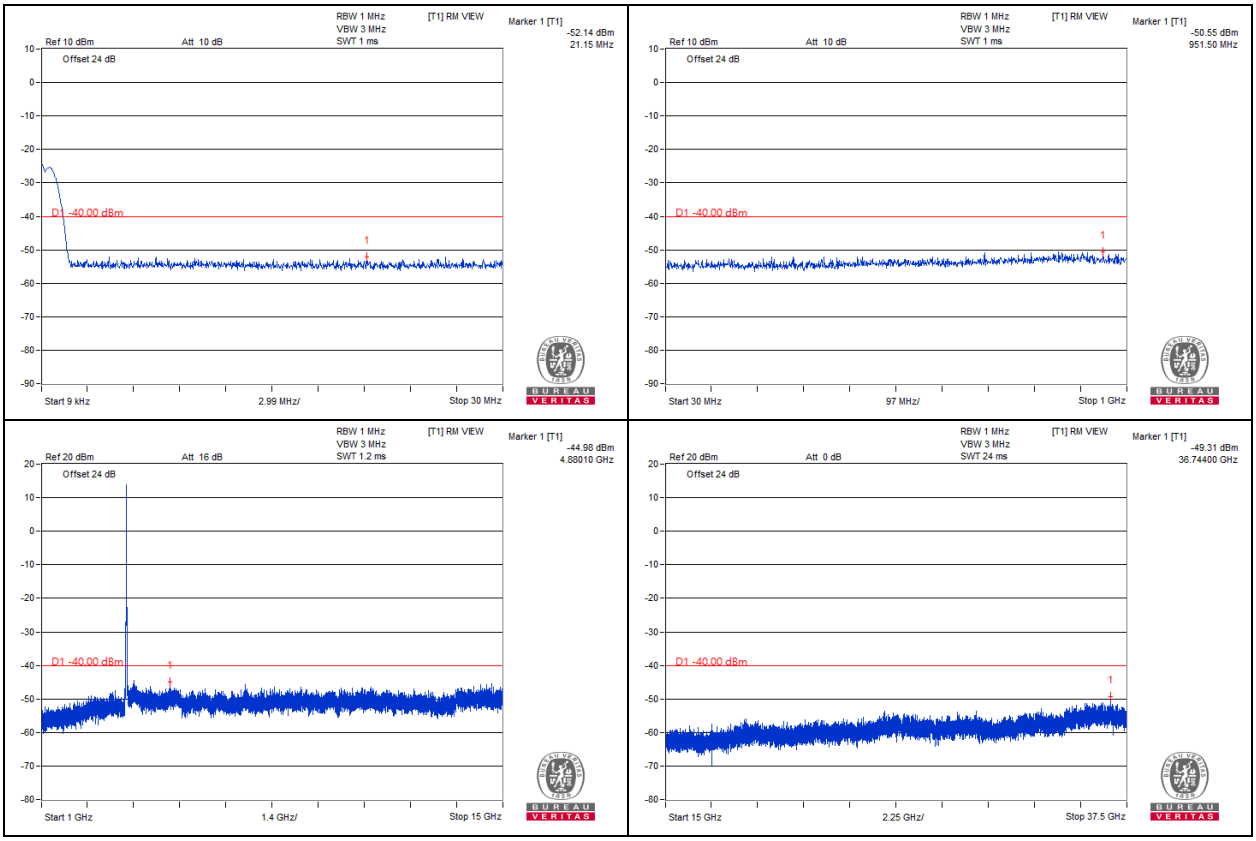
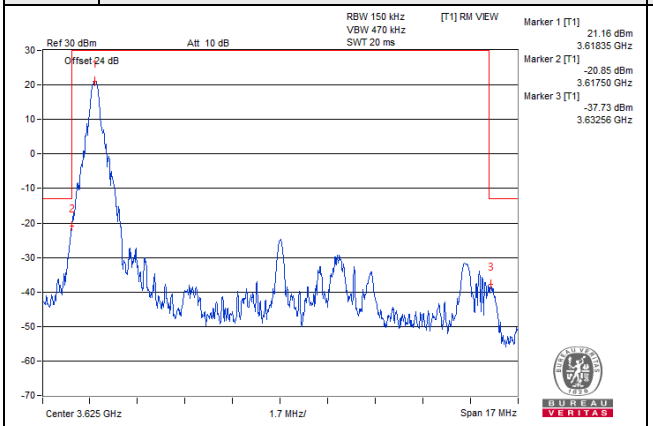
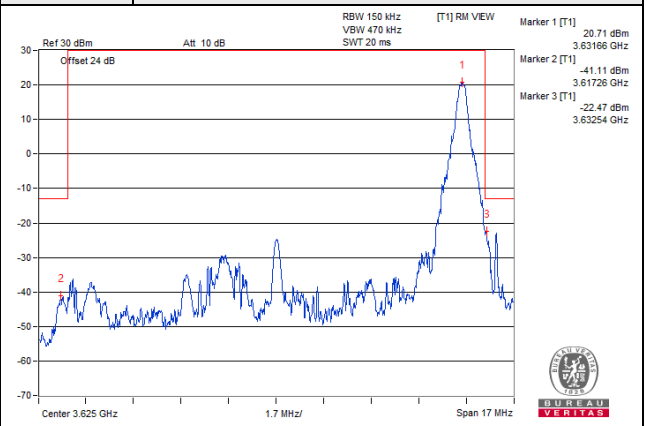
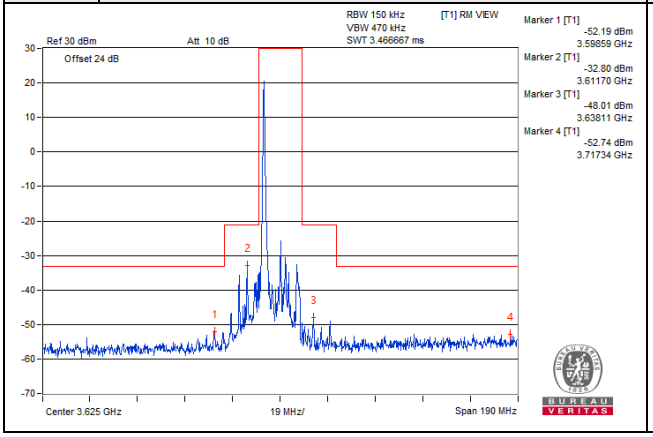
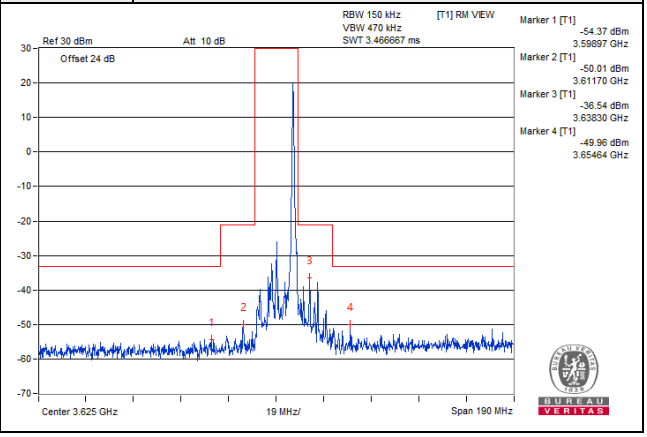
B MHz above the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm
B MHz below the Assigned channel Limit is -25+10*Log(150kHz/1MHz) = -33.24 dBm

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



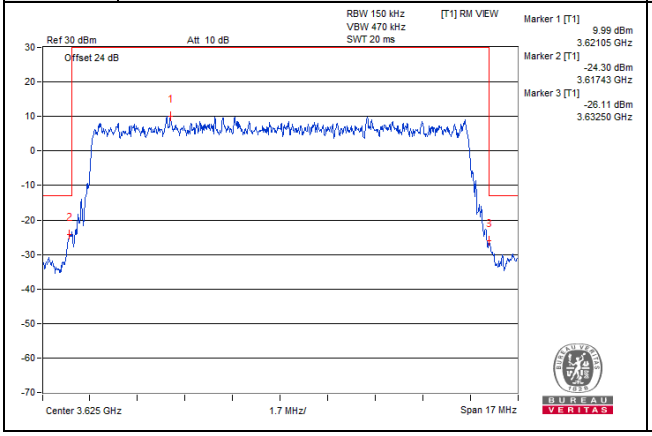
Note: The signal of 9kHz is IF signal from test instrument.

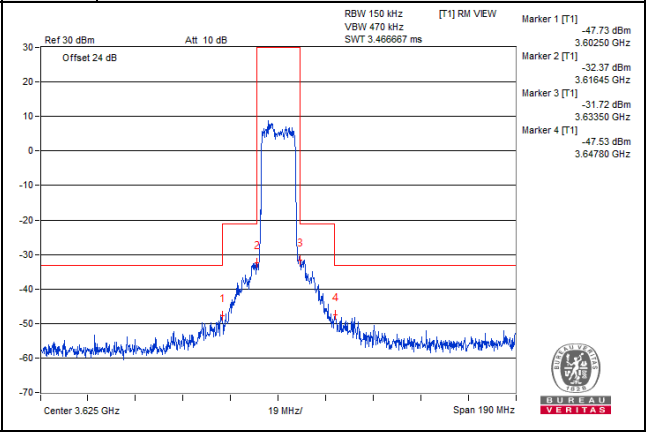
Channel Bandwidth 15MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

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.

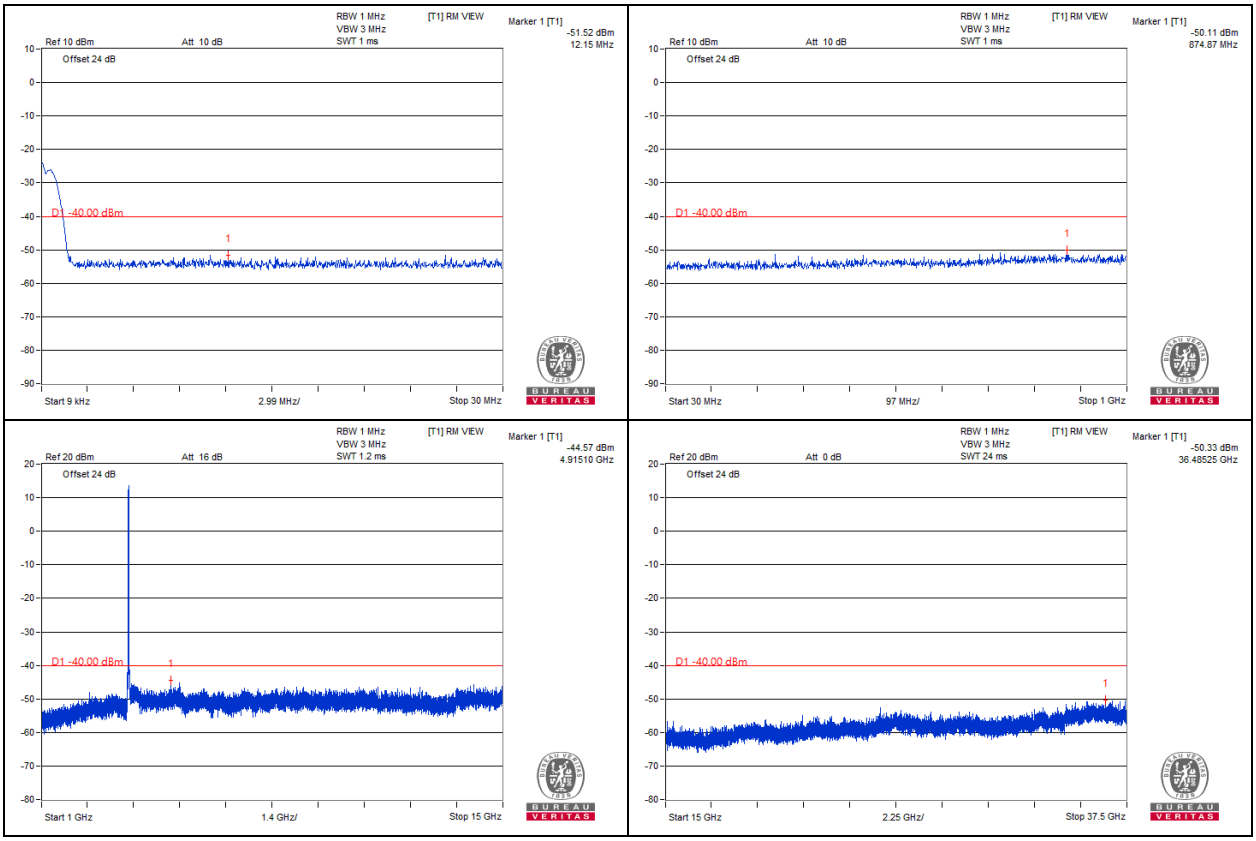
Channel Bandwidth 15MHz QPSK			
Middle Channel 3625MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



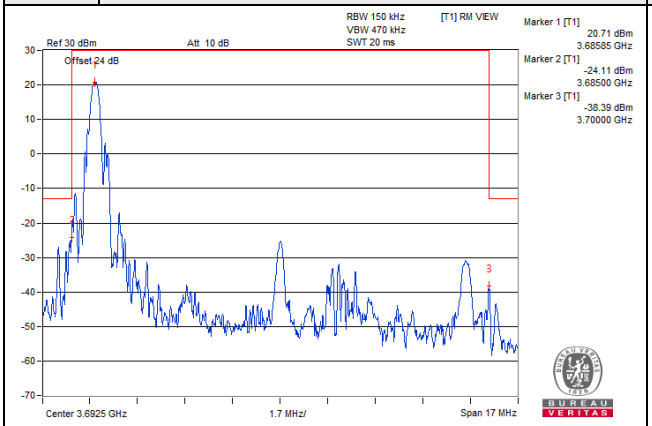
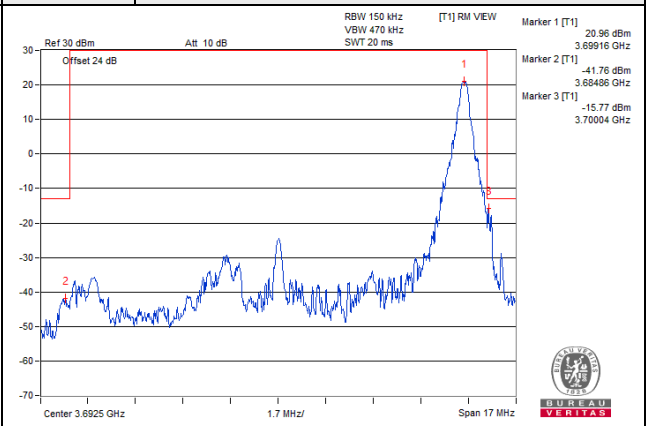
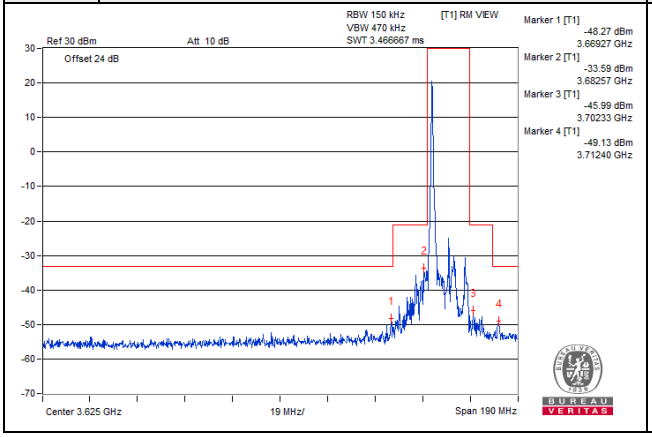
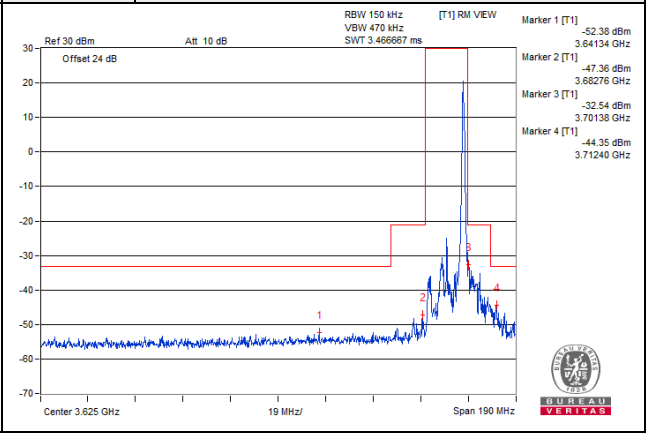


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
B MHz above the Assigned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

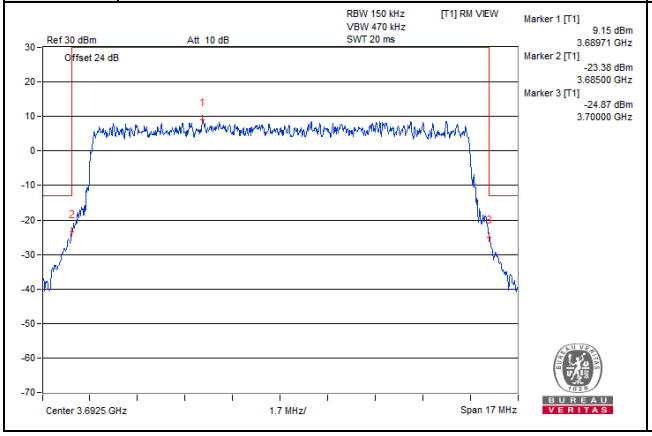
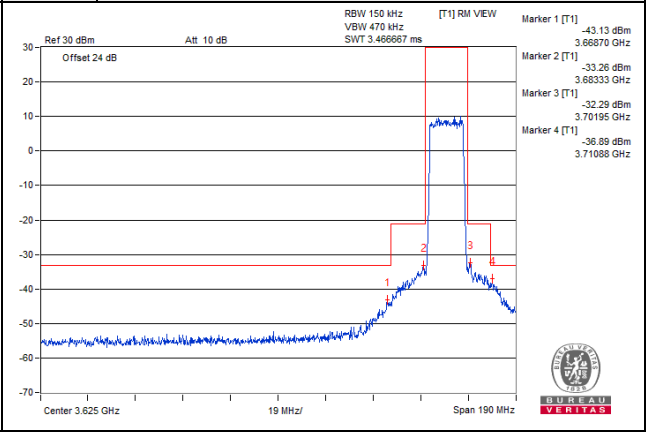


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 15MHz QPSK			
High Channel 3692.5MHz			
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
			

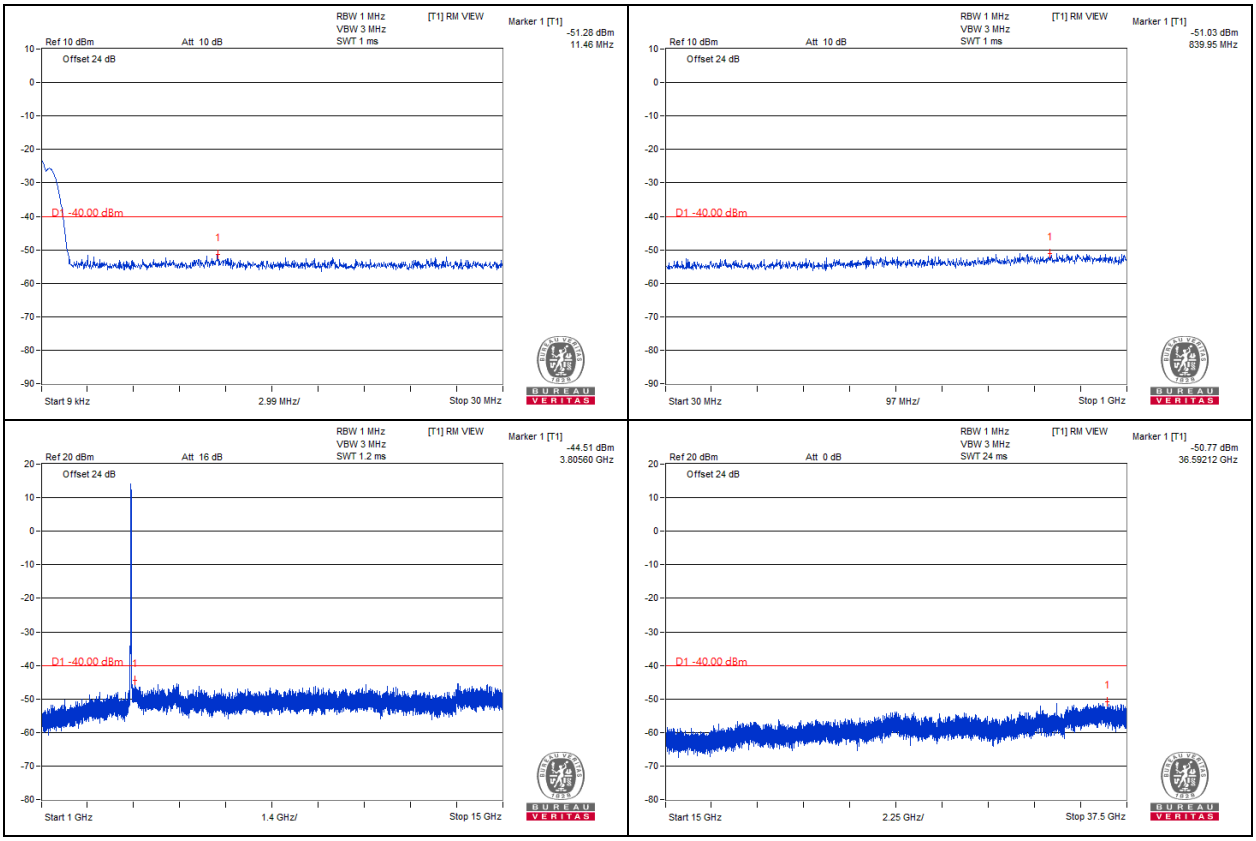
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(150kHz/1MHz) = -21.24 dBm
B MHz above the Assigned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

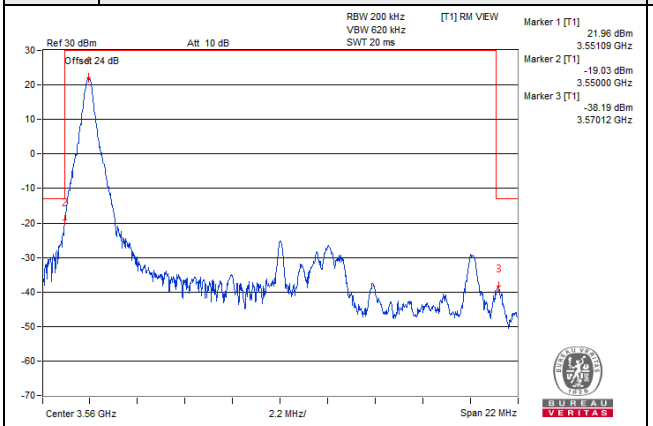
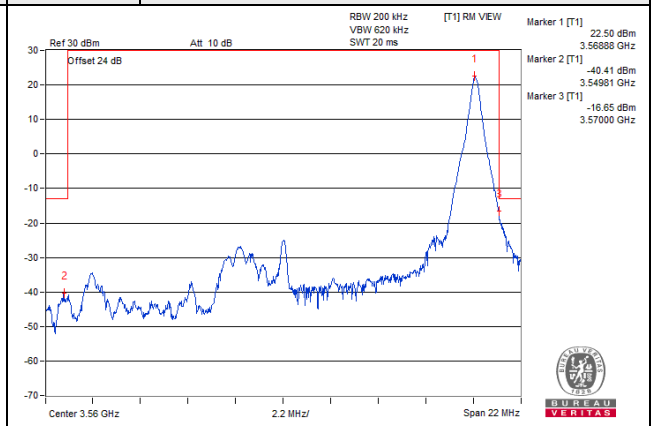
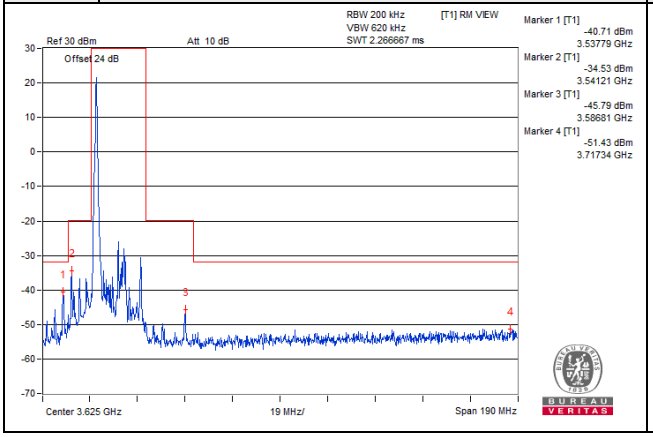
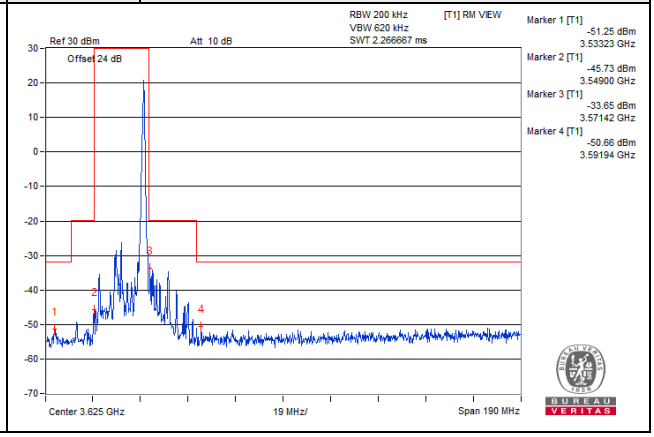
Channel Bandwidth 15MHz QPSK			
High Channel 3692.5MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

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.

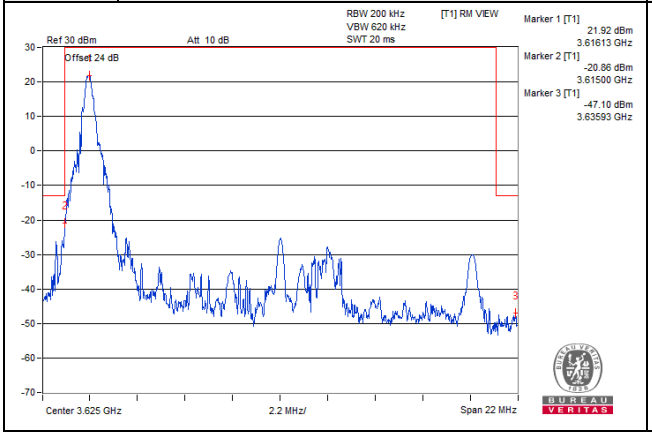
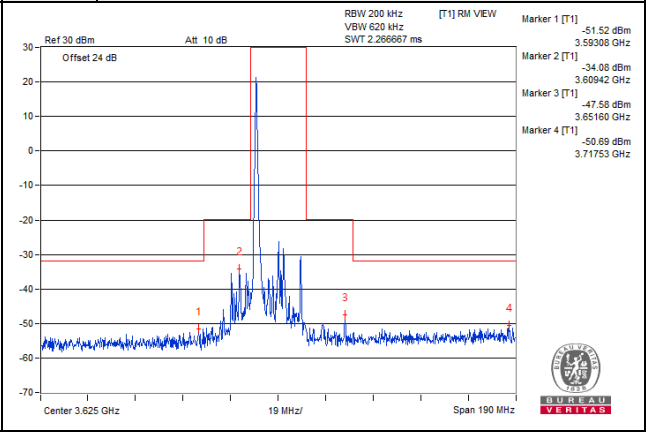


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 20MHz QPSK			
Low Channel 3560MHz			
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
			

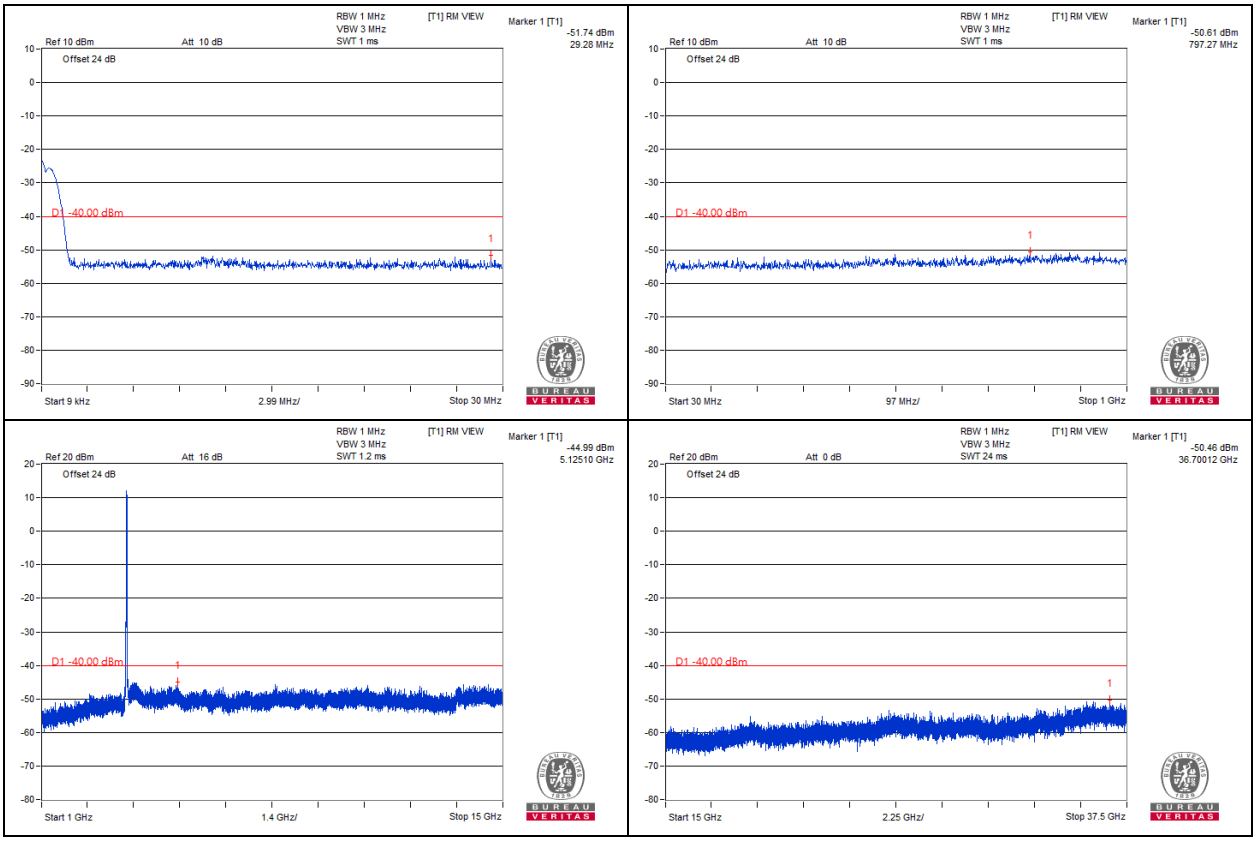
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
B MHz above the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm
B MHz below the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm

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

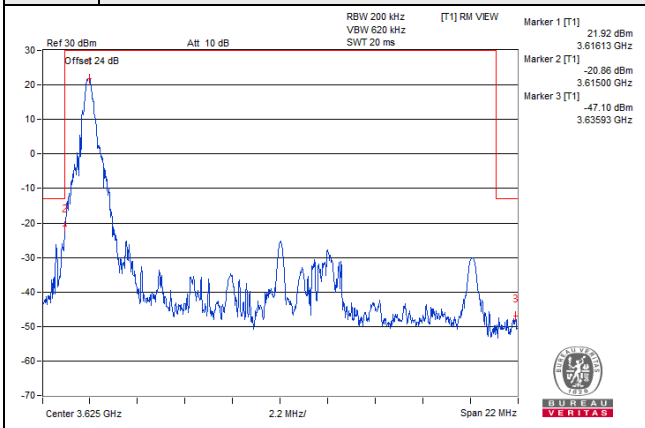
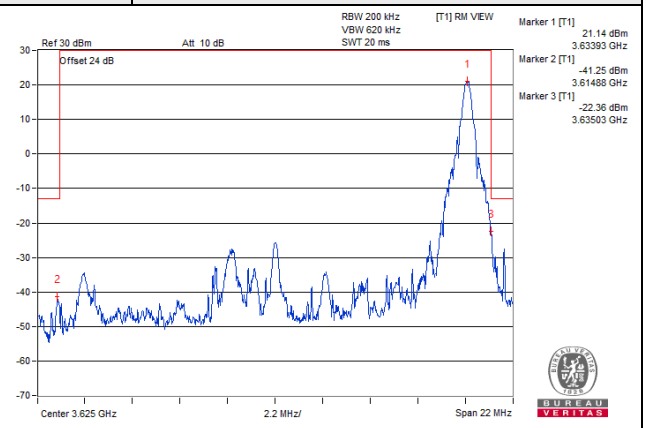
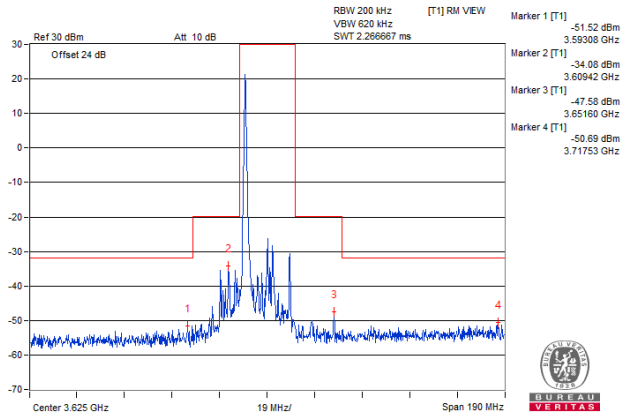
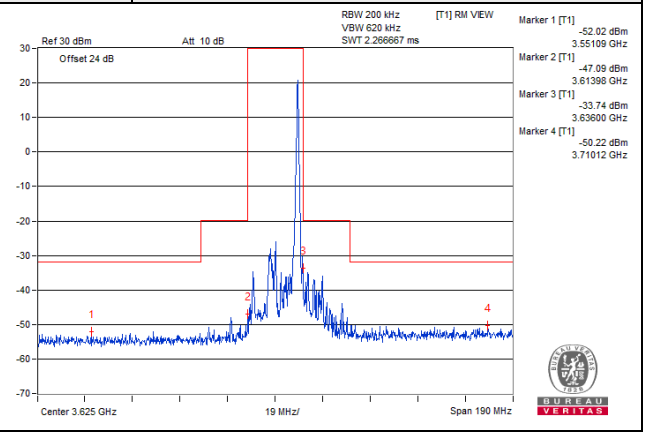
Channel Bandwidth 20MHz QPSK			
Low Channel 3560MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

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(200kHz/1MHz) = -19.99 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
B MHz above the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm
B MHz below the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm

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



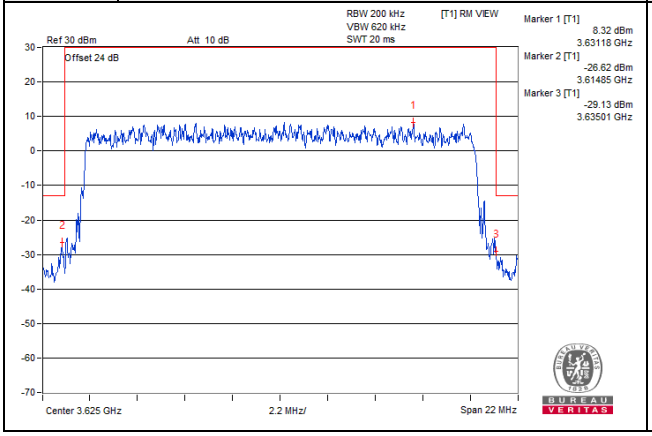
Note: The signal of 9kHz is IF signal from test instrument.

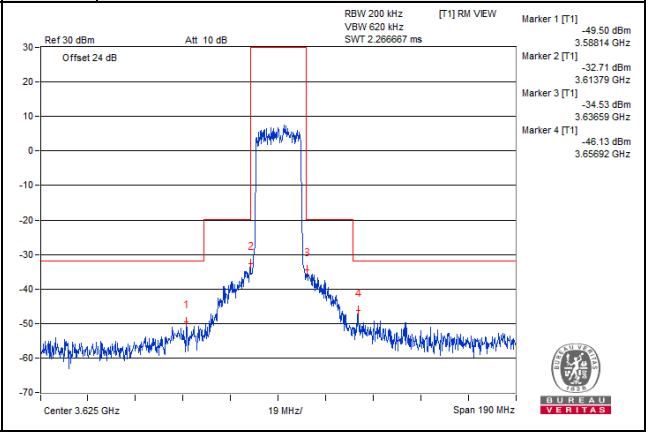
Channel Bandwidth 20MHz QPSK			
Middle Channel 3625MHz			
1 RB-0	Within 1MHz outside the designated channel	1 RB-Max	Within 1MHz outside the designated channel
			
1 RB-0	Greater than 1MHz outside the Assigned Channel	1 RB-Max	Greater than 1MHz outside the Assigned Channel
			

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(200kHz/1MHz) = -19.99 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
B MHz above the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm
B MHz below the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm

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

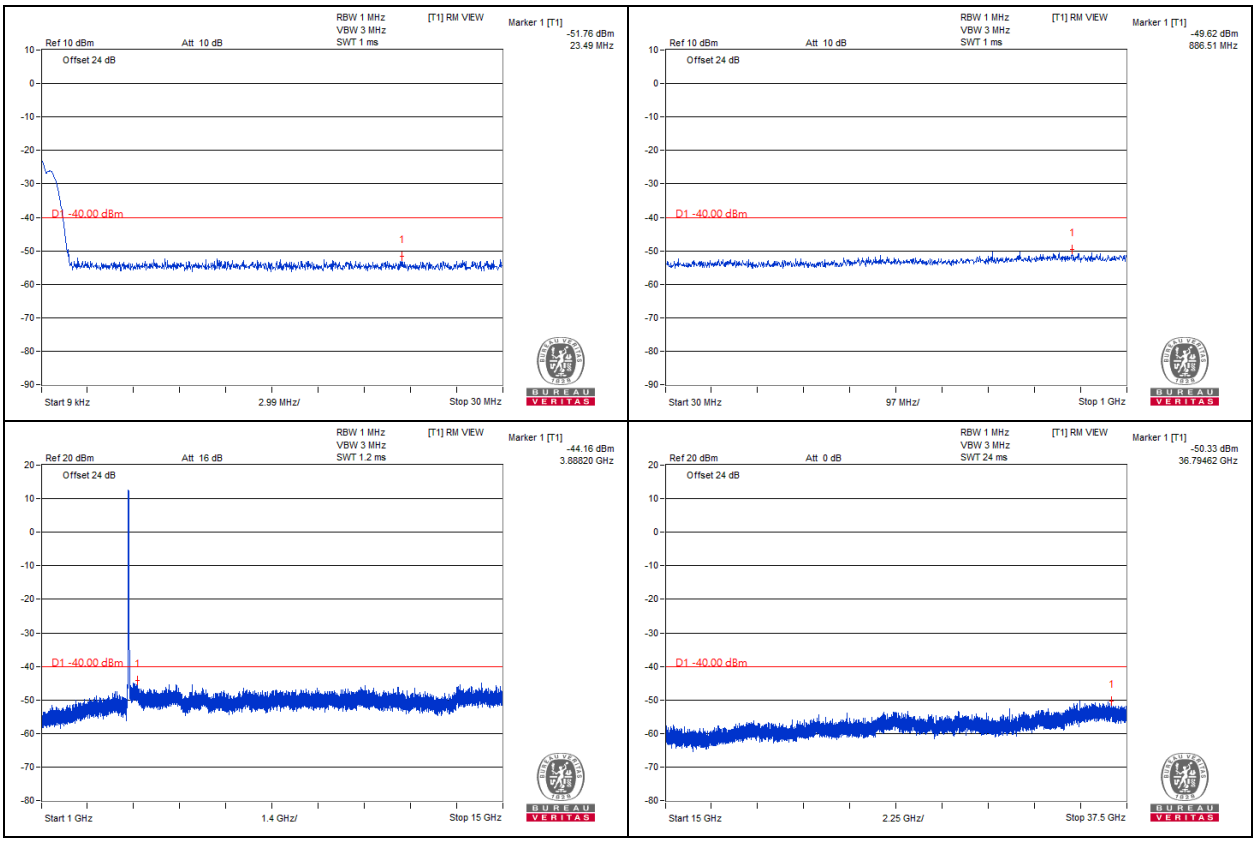
Channel Bandwidth 20MHz QPSK			
Middle Channel 3625MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel



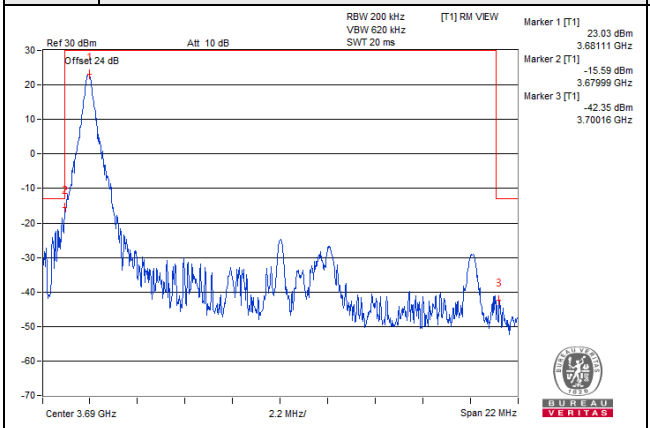
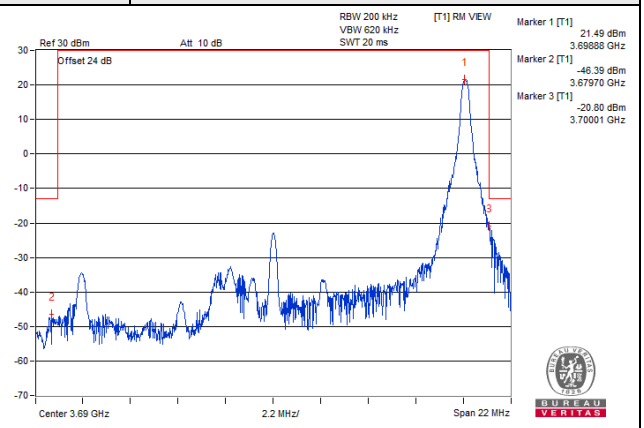
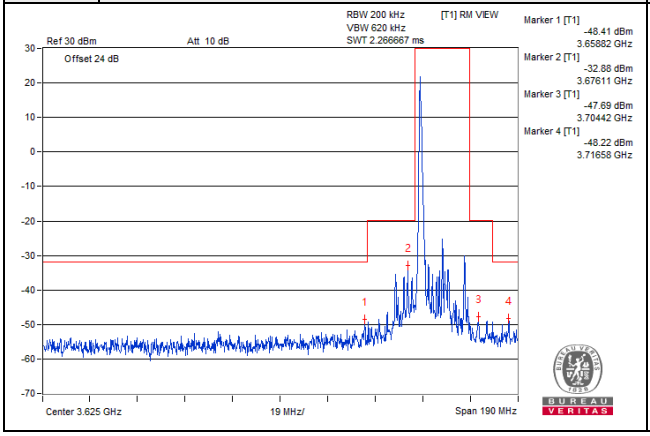
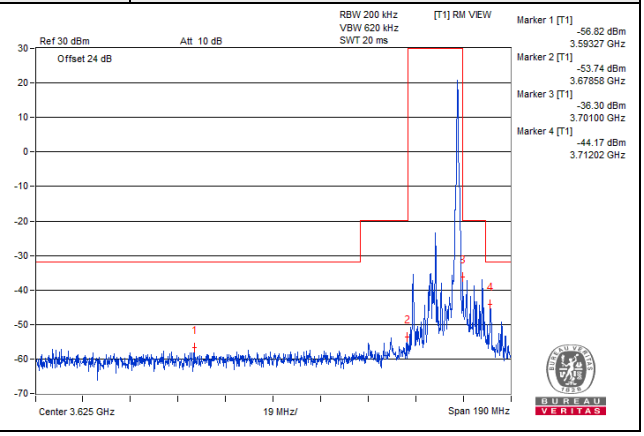


NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
B MHz above the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm
B MHz below the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm

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

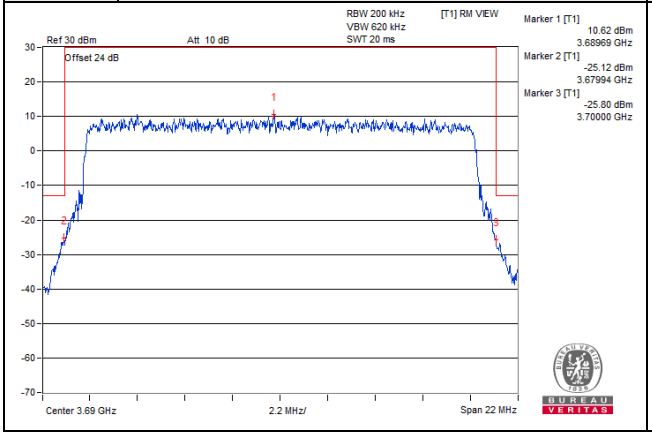
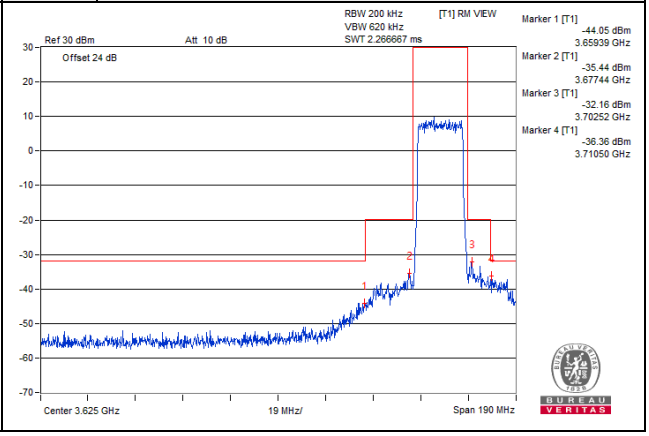


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 20MHz QPSK			
High Channel 3690MHz			
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
			

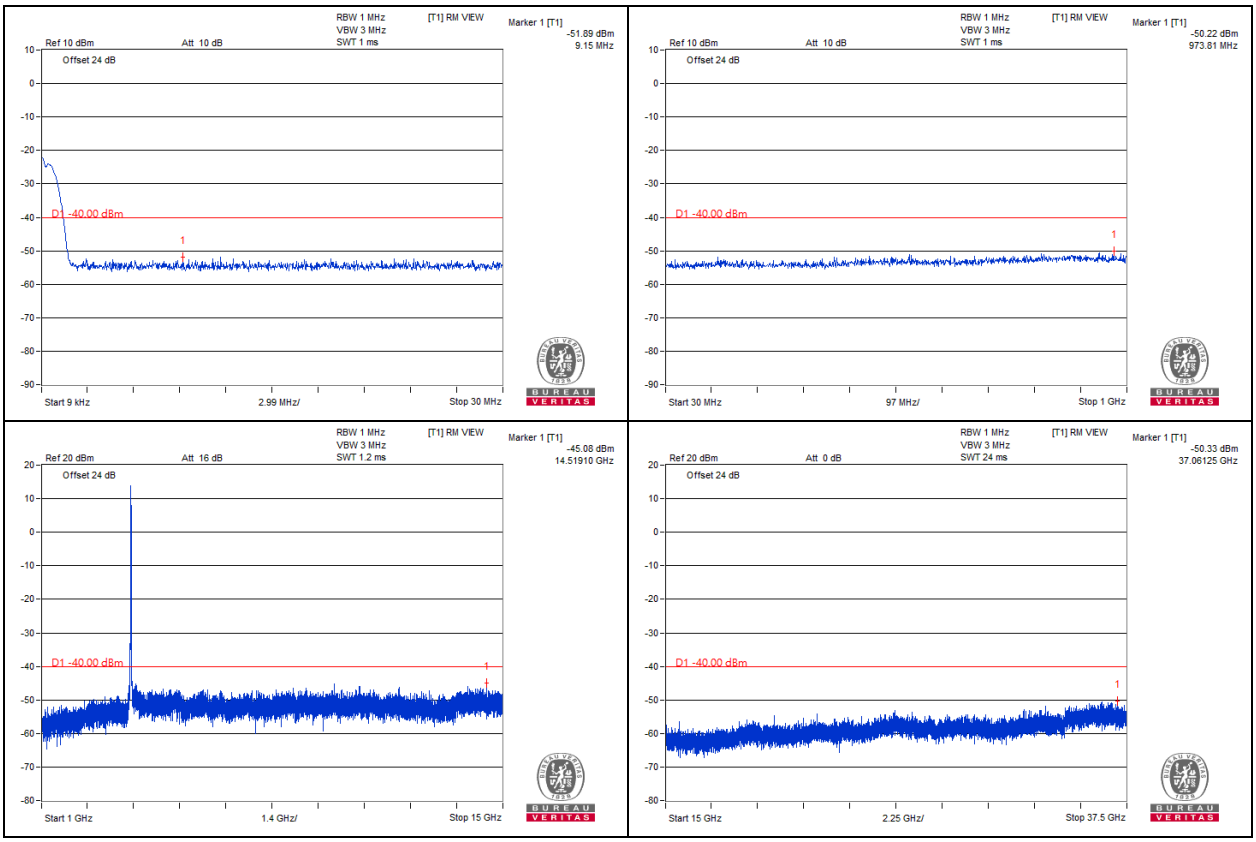
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
B MHz above the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm
B MHz below the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm

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

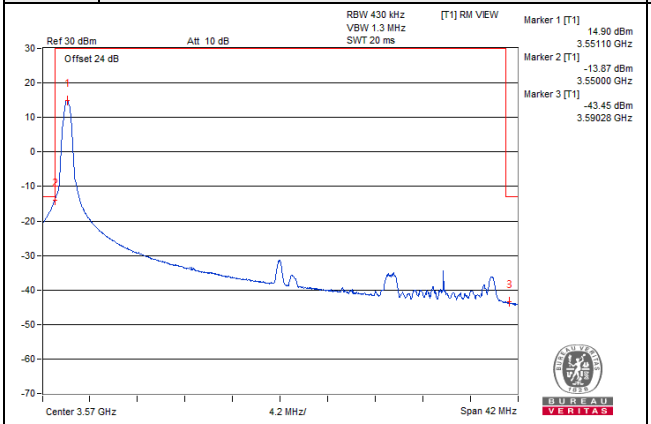
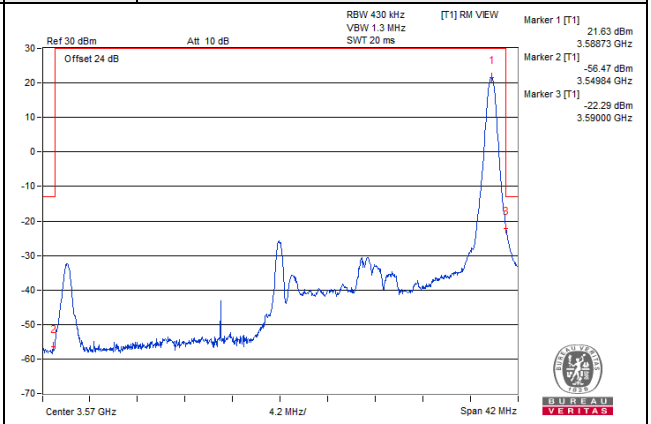
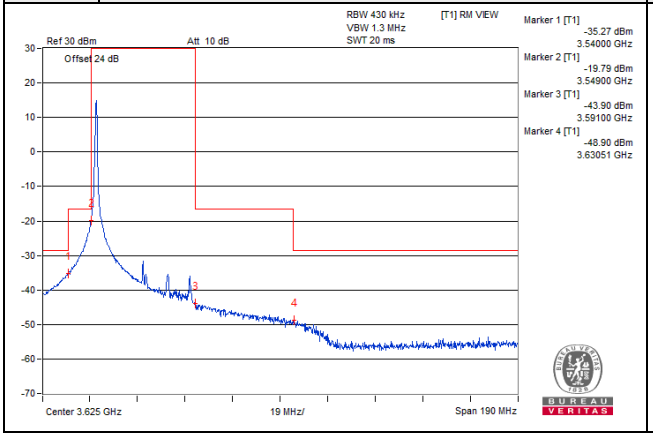
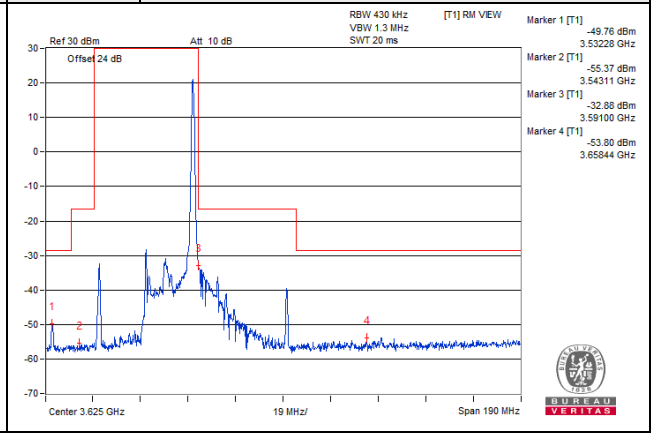
Channel Bandwidth 20MHz QPSK			
High Channel 3690MHz			
Full RB	Within 1MHz outside the designated channel	Full RB	Greater than 1MHz outside the Assigned Channel
			

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(200kHz/1MHz) = -19.99 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(200kHz/1MHz) = -19.99 dBm
B MHz above the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm
B MHz below the Assigned channel Limit is -25+10*Log(200kHz/1MHz) = -31.99 dBm

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

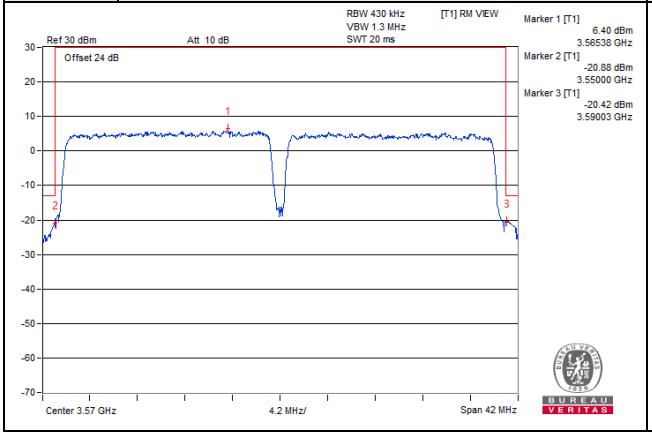
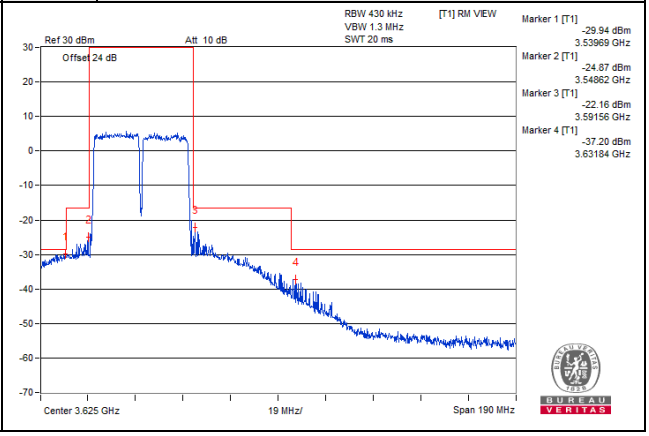


Note: The signal of 9kHz is IF signal from test instrument.

Channel Bandwidth 20MHz+20MHz QPSK			
Worst case 3560+3579.8MHz			
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
			

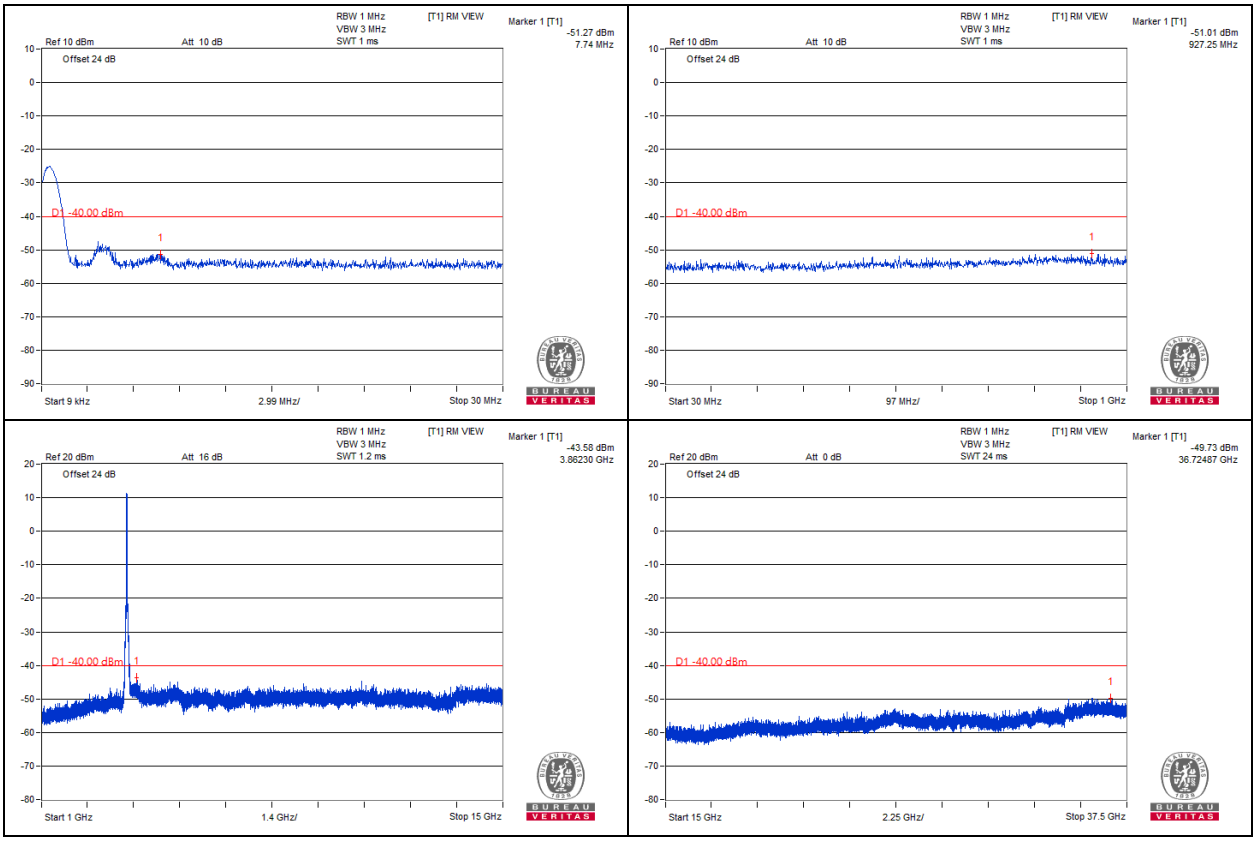
NOTE:
1MHz outside of designated channel needs to reduce the limit, When measured RBW less than 1MHz.
Within 1- B MHz above the Assigned channel Limit is -13+10*Log(430kHz/1MHz) = -16.66 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(430kHz/1MHz) = -16.66 dBm
B MHz above the Assigned channel Limit is -25+10*Log(430kHz/1MHz) = -28.66 dBm
B MHz below the Assigned channel Limit is -25+10*Log(430kHz/1MHz) = -28.66 dBm

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

Channel Bandwidth 20MHz+20MHz QPSK			
Worse case 3560+3579.8MHz			
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(430kHz/1MHz) = -16.66 dBm
Within 1- B MHz below the Assigned channel Limit is -13+10*Log(430kHz/1MHz) = -16.66 dBm
B MHz above the Assigned channel Limit is -25+10*Log(430kHz/1MHz) = -28.66 dBm
B MHz below the Assigned channel Limit is -25+10*Log(430kHz/1MHz) = -28.66 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.

4.6 Radiated Emission Measurement

4.6.1 Limits of Radiated Emission Measurement

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

4.6.2 Test Instruments

Refer to section 4.1.3 to get information of above instrument.

4.6.3 Test Procedures

a. The power was measured with Spectrum Analyzer.

b. Measurement in the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor.

c. Perform a field strength measurement and then mathematically convert the measured field strength level to EIRP level.

d. Follow ANSI 63.26 section 5.2.7 d), EIRP Value (dBm) = Read Value (dBμV/m) - Correction Factor @ 3m

e. Correction Factor (dB) @ 3m = 20log(D) − 104.8; where D is the measurement distance @3m =-95.26dB

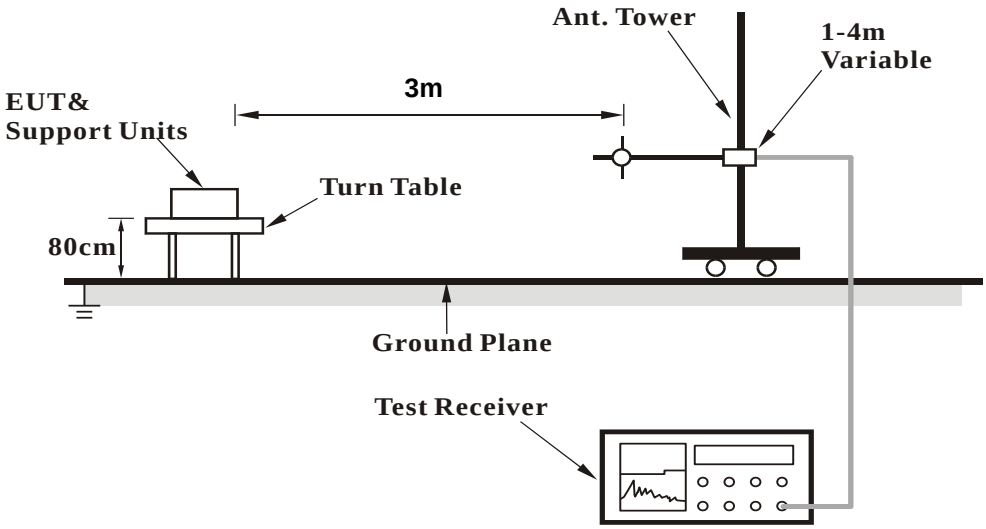
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.6.4 Deviation from Test Standard

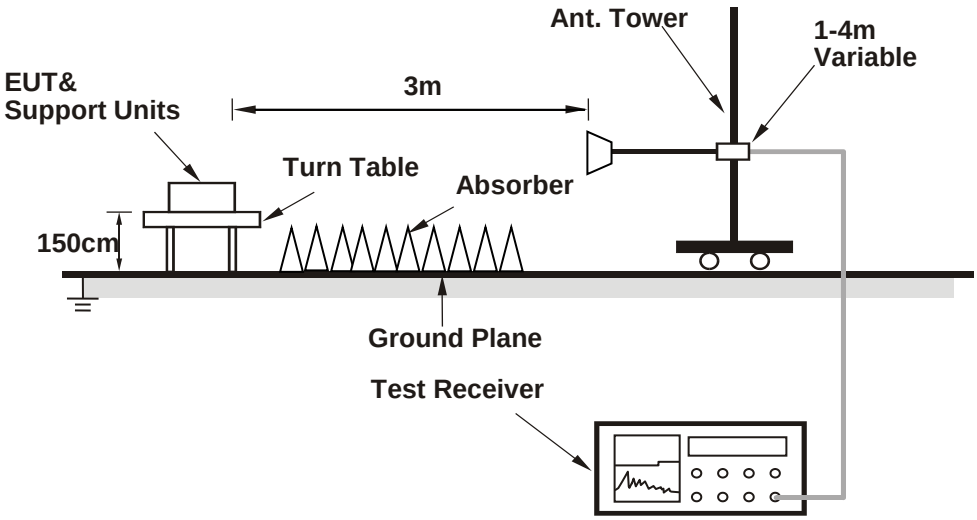
No deviation.

4.6.5 Test Set Up

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.6.6 Test Results

Single Carrier

Below 1GHz Data：

5MHz

Mode	TX Low	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.34	35.8	-95.26	-59.46	-40	-19.46
2	84.34	32.74	-95.26	-62.52	-40	-22.52
3	111.17	38.36	-95.26	-56.90	-40	-16.90
4	148.31	32.61	-95.26	-62.65	-40	-22.65
5	196.59	33.39	-95.26	-61.87	-40	-21.87
6	423.03	28.57	-95.26	-66.69	-40	-26.69
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.51	38.64	-95.26	-56.62	-40	-16.62
2	61.89	35.21	-95.26	-60.05	-40	-20.05
3	90.25	34.76	-95.26	-60.50	-40	-20.50
4	111.36	31.63	-95.26	-63.63	-40	-23.63
5	195.61	34.48	-95.26	-60.78	-40	-20.78
6	224.97	27.71	-95.26	-67.55	-40	-27.55

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.23	38.21	-95.26	-57.05	-40	-17.05
2	84.1	34.79	-95.26	-60.47	-40	-20.47
3	110.86	34.31	-95.26	-60.95	-40	-20.95
4	147.89	31.53	-95.26	-63.73	-40	-23.73
5	196.47	34.41	-95.26	-60.85	-40	-20.85
6	422.91	27.35	-95.26	-67.91	-40	-27.91
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.5	38.35	-95.26	-56.91	-40	-16.91
2	61.68	34.99	-95.26	-60.27	-40	-20.27
3	90.22	34.47	-95.26	-60.79	-40	-20.79
4	110.88	31.63	-95.26	-63.63	-40	-23.63
5	195.11	34.62	-95.26	-60.64	-40	-20.64
6	224.6	27.65	-95.26	-67.61	-40	-27.61

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.25	38.38	-95.26	-56.88	-40	-16.88
2	84.27	34.98	-95.26	-60.28	-40	-20.28
3	110.92	34.61	-95.26	-60.65	-40	-20.65
4	147.95	31.24	-95.26	-64.02	-40	-24.02
5	196.29	34.07	-95.26	-61.19	-40	-21.19
6	422.66	27.36	-95.26	-67.90	-40	-27.90
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.15	38.59	-95.26	-56.67	-40	-16.67
2	61.42	35.01	-95.26	-60.25	-40	-20.25
3	90.16	34.6	-95.26	-60.66	-40	-20.66
4	111.36	31.76	-95.26	-63.50	-40	-23.50
5	195.59	34.5	-95.26	-60.76	-40	-20.76
6	224.93	27.66	-95.26	-67.60	-40	-27.60

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

10MHz

Mode	TX Low	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.34	35.53	-95.26	-59.73	-40	-19.73
2	84.26	32.29	-95.26	-62.97	-40	-22.97
3	110.72	38.21	-95.26	-57.05	-40	-17.05
4	148.29	32.52	-95.26	-62.74	-40	-22.74
5	196.28	33.38	-95.26	-61.88	-40	-21.88
6	422.57	28.45	-95.26	-66.81	-40	-26.81
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.14	38.51	-95.26	-56.75	-40	-16.75
2	61.57	34.87	-95.26	-60.39	-40	-20.39
3	89.92	34.5	-95.26	-60.76	-40	-20.76
4	111.1	31.47	-95.26	-63.79	-40	-23.79
5	195.21	34.33	-95.26	-60.93	-40	-20.93
6	224.68	27.63	-95.26	-67.63	-40	-27.63

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.31	35.32	-95.26	-59.94	-40	-19.94
2	84.16	32.66	-95.26	-62.60	-40	-22.60
3	110.97	38.03	-95.26	-57.23	-40	-17.23
4	147.88	32.5	-95.26	-62.76	-40	-22.76
5	196.49	33.2	-95.26	-62.06	-40	-22.06
6	422.74	28.53	-95.26	-66.73	-40	-26.73
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.48	38.56	-95.26	-56.70	-40	-16.70
2	61.84	34.83	-95.26	-60.43	-40	-20.43
3	89.78	34.54	-95.26	-60.72	-40	-20.72
4	111.3	31.24	-95.26	-64.02	-40	-24.02
5	195.4	34.25	-95.26	-61.01	-40	-21.01
6	224.55	27.45	-95.26	-67.81	-40	-27.81

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	41.88	35.33	-95.26	-59.93	-40	-19.93
2	83.98	32.31	-95.26	-62.95	-40	-22.95
3	110.73	38.28	-95.26	-56.98	-40	-16.98
4	147.82	32.6	-95.26	-62.66	-40	-22.66
5	196.19	33.3	-95.26	-61.96	-40	-21.96
6	422.71	28.55	-95.26	-66.71	-40	-26.71
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.03	38.59	-95.26	-56.67	-40	-16.67
2	61.57	34.97	-95.26	-60.29	-40	-20.29
3	89.76	34.61	-95.26	-60.65	-40	-20.65
4	111.33	31.16	-95.26	-64.10	-40	-24.10
5	195.15	34.28	-95.26	-60.98	-40	-20.98
6	224.64	27.48	-95.26	-67.78	-40	-27.78

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

15MHz

Mode	TX Low	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.1	35.78	-95.26	-59.48	-40	-19.48
2	84.24	32.32	-95.26	-62.94	-40	-22.94
3	111.17	38.31	-95.26	-56.95	-40	-16.95
4	148.2	32.53	-95.26	-62.73	-40	-22.73
5	196.34	33.26	-95.26	-62.00	-40	-22.00
6	422.86	28.4	-95.26	-66.86	-40	-26.86
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.24	38.48	-95.26	-56.78	-40	-16.78
2	61.84	34.82	-95.26	-60.44	-40	-20.44
3	89.85	34.33	-95.26	-60.93	-40	-20.93
4	111.03	31.6	-95.26	-63.66	-40	-23.66
5	195.44	34.46	-95.26	-60.80	-40	-20.80
6	224.55	27.63	-95.26	-67.63	-40	-27.63

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.23	35.38	-95.26	-59.88	-40	-19.88
2	83.95	32.73	-95.26	-62.53	-40	-22.53
3	110.76	37.88	-95.26	-57.38	-40	-17.38
4	148.06	32.14	-95.26	-63.12	-40	-23.12
5	196.17	33	-95.26	-62.26	-40	-22.26
6	422.81	28.51	-95.26	-66.75	-40	-26.75
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.48	38.55	-95.26	-56.71	-40	-16.71
2	61.47	34.74	-95.26	-60.52	-40	-20.52
3	89.77	34.66	-95.26	-60.60	-40	-20.60
4	111.34	31.51	-95.26	-63.75	-40	-23.75
5	195.23	34.27	-95.26	-60.99	-40	-20.99
6	224.54	27.42	-95.26	-67.84	-40	-27.84

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.19	35.62	-95.26	-59.64	-40	-19.64
2	83.92	32.36	-95.26	-62.90	-40	-22.90
3	111.17	37.92	-95.26	-57.34	-40	-17.34
4	148.16	32.25	-95.26	-63.01	-40	-23.01
5	196.19	33.35	-95.26	-61.91	-40	-21.91
6	422.98	28.55	-95.26	-66.71	-40	-26.71
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.29	38.16	-95.26	-57.10	-40	-17.10
2	61.88	35	-95.26	-60.26	-40	-20.26
3	90.09	34.57	-95.26	-60.69	-40	-20.69
4	110.96	31.55	-95.26	-63.71	-40	-23.71
5	195.11	34.28	-95.26	-60.98	-40	-20.98
6	224.58	27.54	-95.26	-67.72	-40	-27.72

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

20MHz

Mode	TX Low	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.23	35.66	-95.26	-59.60	-40	-19.60
2	83.85	32.73	-95.26	-62.53	-40	-22.53
3	111.12	38.3	-95.26	-56.96	-40	-16.96
4	147.94	32.11	-95.26	-63.15	-40	-23.15
5	196.22	33.25	-95.26	-62.01	-40	-22.01
6	422.96	28.51	-95.26	-66.75	-40	-26.75
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.25	38.37	-95.26	-56.89	-40	-16.89
2	61.51	35.09	-95.26	-60.17	-40	-20.17
3	90.18	34.56	-95.26	-60.70	-40	-20.70
4	111.08	31.34	-95.26	-63.92	-40	-23.92
5	195.45	34.29	-95.26	-60.97	-40	-20.97
6	224.95	27.38	-95.26	-67.88	-40	-27.88

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.22	35.53	-95.26	-59.73	-40	-19.73
2	83.94	32.31	-95.26	-62.95	-40	-22.95
3	110.88	38.05	-95.26	-57.21	-40	-17.21
4	148.12	32.26	-95.26	-63.00	-40	-23.00
5	196.11	33.35	-95.26	-61.91	-40	-21.91
6	422.84	28.1	-95.26	-67.16	-40	-27.16
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.3	38.44	-95.26	-56.82	-40	-16.82
2	61.65	34.9	-95.26	-60.36	-40	-20.36
3	89.85	34.36	-95.26	-60.90	-40	-20.90
4	110.86	31.44	-95.26	-63.82	-40	-23.82
5	195.53	34.22	-95.26	-61.04	-40	-21.04
6	224.7	27.41	-95.26	-67.85	-40	-27.85

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.22	35.69	-95.26	-59.57	-40	-19.57
2	84.18	32.68	-95.26	-62.58	-40	-22.58
3	110.95	38.13	-95.26	-57.13	-40	-17.13
4	148.08	32.59	-95.26	-62.67	-40	-22.67
5	196.49	33.21	-95.26	-62.05	-40	-22.05
6	422.97	28.24	-95.26	-67.02	-40	-27.02
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.46	38.57	-95.26	-56.69	-40	-16.69
2	61.7	34.9	-95.26	-60.36	-40	-20.36
3	90.22	34.6	-95.26	-60.66	-40	-20.66
4	111.22	31.53	-95.26	-63.73	-40	-23.73
5	195.12	34.34	-95.26	-60.92	-40	-20.92
6	224.82	27.26	-95.26	-68.00	-40	-28.00

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

20MHz+20MHz

Mode	Worst case	Frequency Range	Below 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	42.46	35.79	-95.26	-59.47	-40	-19.47
2	84.01	32.83	-95.26	-62.43	-40	-22.43
3	111	38.73	-95.26	-56.53	-40	-16.53
4	148.67	32.49	-95.26	-62.77	-40	-22.77
5	196.74	33.67	-95.26	-61.59	-40	-21.59
6	423.3	28.69	-95.26	-66.57	-40	-26.57
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	43.49	38.35	-95.26	-56.91	-40	-16.91
2	61.88	35.17	-95.26	-60.09	-40	-20.09
3	90.24	34.74	-95.26	-60.52	-40	-20.52
4	111.5	31.96	-95.26	-63.30	-40	-23.30
5	195.61	34.34	-95.26	-60.92	-40	-20.92
6	224.78	27.92	-95.26	-67.34	-40	-27.34

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Above 1GHz Data：

5MHz

Mode	TX Low	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dBμV/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7105	36.15	-95.26	-59.11	-40	-19.11
2	10657.5	36.13	-95.26	-59.13	-40	-19.13
3	14210	42.21	-95.26	-53.05	-40	-13.05
4	17762.5	43.11	-95.26	-52.15	-40	-12.15
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dBμV/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7105	36.26	-95.26	-59.00	-40	-19.00
2	10657.5	36.48	-95.26	-58.78	-40	-18.78
3	14210	42.17	-95.26	-53.09	-40	-13.09
4	17762.5	43.12	-95.26	-52.14	-40	-12.14

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	36.35	-95.26	-58.91	-40	-18.91
2	10875	36.28	-95.26	-58.98	-40	-18.98
3	14500	42.15	-95.26	-53.11	-40	-13.11
4	18125	43.1	-95.26	-52.16	-40	-12.16
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	36.32	-95.26	-58.94	-40	-18.94
2	10875	36.13	-95.26	-59.13	-40	-19.13
3	14500	42.28	-95.26	-52.98	-40	-12.98
4	18125	43.1	-95.26	-52.16	-40	-12.16

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7395	36.02	-95.26	-59.24	-40	-19.24
2	11092.5	36.5	-95.26	-58.76	-40	-18.76
3	14790	42.12	-95.26	-53.14	-40	-13.14
4	18487.5	43.14	-95.26	-52.12	-40	-12.12
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7395	36.29	-95.26	-58.97	-40	-18.97
2	11092.5	36.45	-95.26	-58.81	-40	-18.81
3	14790	42.78	-95.26	-52.48	-40	-12.48
4	18487.5	43.56	-95.26	-51.70	-40	-11.70

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

10MHz

Mode	TX Low	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7110	36.41	-95.26	-58.85	-40	-18.85
2	10665	36.19	-95.26	-59.07	-40	-19.07
3	14220	41.97	-95.26	-53.29	-40	-13.29
4	17775	43.12	-95.26	-52.14	-40	-12.14
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7110	35.95	-95.26	-59.31	-40	-19.31
2	10665	35.87	-95.26	-59.39	-40	-19.39
3	14220	41.87	-95.26	-53.39	-40	-13.39
4	17775	42.93	-95.26	-52.33	-40	-12.33

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	36.11	-95.26	-59.15	-40	-19.15
2	10875	35.96	-95.26	-59.30	-40	-19.30
3	14500	41.75	-95.26	-53.51	-40	-13.51
4	18125	42.68	-95.26	-52.58	-40	-12.58
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	35.83	-95.26	-59.43	-40	-19.43
2	10875	35.85	-95.26	-59.41	-40	-19.41
3	14500	41.78	-95.26	-53.48	-40	-13.48
4	18125	42.88	-95.26	-52.38	-40	-12.38

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7390	36.02	-95.26	-59.24	-40	-19.24
2	11085	35.64	-95.26	-59.62	-40	-19.62
3	14780	42.19	-95.26	-53.07	-40	-13.07
4	18475	42.91	-95.26	-52.35	-40	-12.35
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7390	36.12	-95.26	-59.14	-40	-19.14
2	11085	35.68	-95.26	-59.58	-40	-19.58
3	14780	41.72	-95.26	-53.54	-40	-13.54
4	18475	42.89	-95.26	-52.37	-40	-12.37

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

15MHz

Mode	TX Low	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7115	35.98	-95.26	-59.28	-40	-19.28
2	10672.5	35.89	-95.26	-59.37	-40	-19.37
3	14230	42.14	-95.26	-53.12	-40	-13.12
4	17787.5	42.86	-95.26	-52.40	-40	-12.40
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7115	35.99	-95.26	-59.27	-40	-19.27
2	10672.5	35.98	-95.26	-59.28	-40	-19.28
3	14230	41.97	-95.26	-53.29	-40	-13.29
4	17787.5	43	-95.26	-52.26	-40	-12.26

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	36.11	-95.26	-59.15	-40	-19.15
2	10875	35.99	-95.26	-59.27	-40	-19.27
3	14500	42.19	-95.26	-53.07	-40	-13.07
4	18125	42.98	-95.26	-52.28	-40	-12.28
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	35.88	-95.26	-59.38	-40	-19.38
2	10875	35.92	-95.26	-59.34	-40	-19.34
3	14500	42.11	-95.26	-53.15	-40	-13.15
4	18125	42.87	-95.26	-52.39	-40	-12.39

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7385	36	-95.26	-59.26	-40	-19.26
2	11077.5	35.74	-95.26	-59.52	-40	-19.52
3	14770	41.8	-95.26	-53.46	-40	-13.46
4	18462.5	42.64	-95.26	-52.62	-40	-12.62
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7385	35.9	-95.26	-59.36	-40	-19.36
2	11077.5	35.99	-95.26	-59.27	-40	-19.27
3	14770	42.1	-95.26	-53.16	-40	-13.16
4	18462.5	42.73	-95.26	-52.53	-40	-12.53

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

20MHz

Mode	TX Low	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7120	36.09	-95.26	-59.17	-40	-19.17
2	10680	35.87	-95.26	-59.39	-40	-19.39
3	14240	42.05	-95.26	-53.21	-40	-13.21
4	17800	43.08	-95.26	-52.18	-40	-12.18
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7120	36.15	-95.26	-59.11	-40	-19.11
2	10680	35.71	-95.26	-59.55	-40	-19.55
3	14240	41.9	-95.26	-53.36	-40	-13.36
4	17800	42.73	-95.26	-52.53	-40	-12.53

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX Middle	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	36	-95.26	-59.26	-40	-19.26
2	10875	35.72	-95.26	-59.54	-40	-19.54
3	14500	42.19	-95.26	-53.07	-40	-13.07
4	18125	42.65	-95.26	-52.61	-40	-12.61
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	35.82	-95.26	-59.44	-40	-19.44
2	10875	35.99	-95.26	-59.27	-40	-19.27
3	14500	41.84	-95.26	-53.42	-40	-13.42
4	18125	42.8	-95.26	-52.46	-40	-12.46

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

Mode	TX High	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7380	35.96	-95.26	-59.30	-40	-19.30
2	11070	35.67	-95.26	-59.59	-40	-19.59
3	14760	42.08	-95.26	-53.18	-40	-13.18
4	18450	42.82	-95.26	-52.44	-40	-12.44
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7380	35.8	-95.26	-59.46	-40	-19.46
2	11070	36.01	-95.26	-59.25	-40	-19.25
3	14760	42.13	-95.26	-53.13	-40	-13.13
4	18450	42.67	-95.26	-52.59	-40	-12.59

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

20MHz+20MHz

Mode	Worst case	Frequency Range	Above 1000 MHz

Antenna Polarity & Test Distance: Horizontal at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7230.2	36.61	-95.26	-58.65	-40	-18.65
2	10845.3	42.36	-95.26	-52.90	-40	-12.90
3	14460.4	44.33	-95.26	-50.93	-40	-10.93
4	**18075.5**	**45.32**	**-95.26**	**-49.94**	**-40**	**-9.94**
Antenna Polarity & Test Distance: Vertical at 3 M						
No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7230.2	36.5	-95.26	-58.76	-13	-45.76
2	10845.3	41.88	-95.26	-53.38	-40	-13.38
3	14460.4	44.1	-95.26	-51.16	-40	-11.16
4	18075.5	44.89	-95.26	-50.37	-40	-10.37

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dBμV/m) + Correction Factor @ 3m.

2. Correction Factor (dB) = 20log(D) − 104.8; where D is the measurement distance @3m

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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