



### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. The emission limit equal to  $-13\text{dBm}$ .

#### 3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m 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 spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .

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

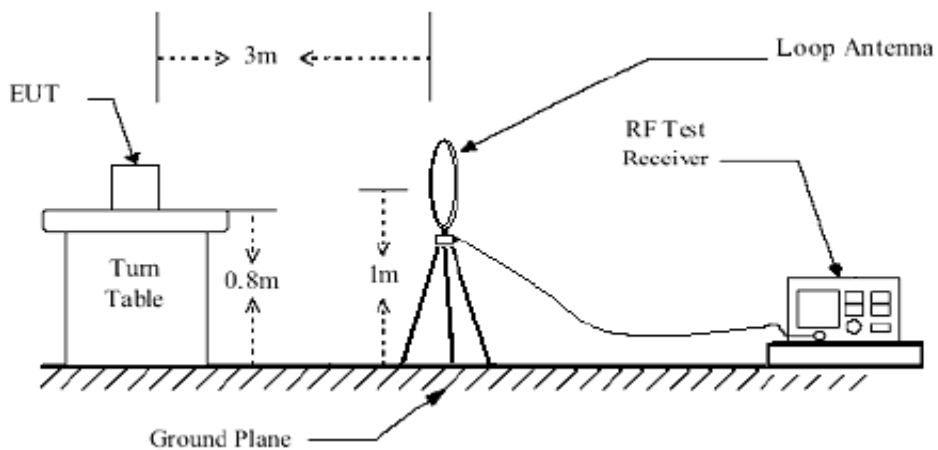
#### 3.6.3 DEVIATION FROM TEST STANDARD

No deviation

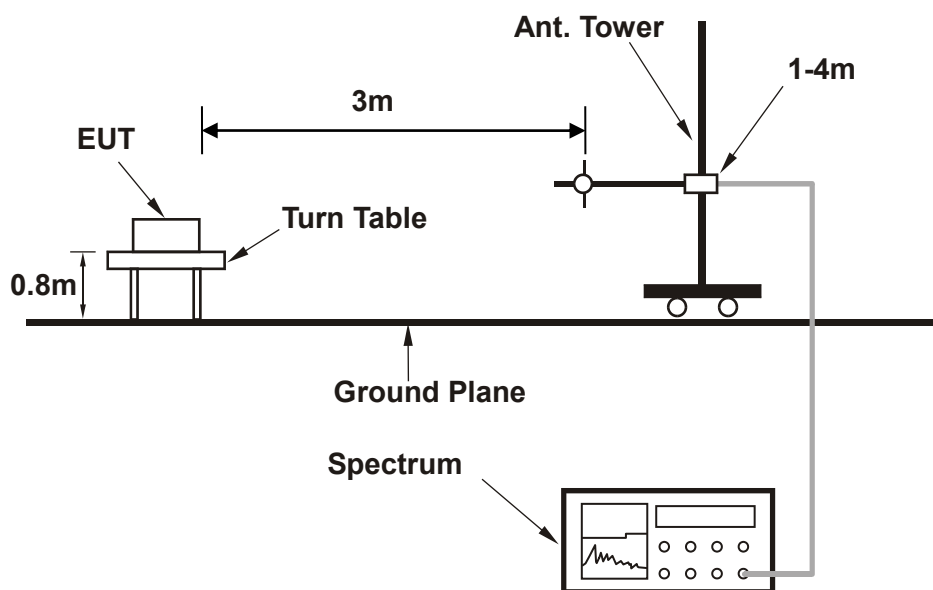


### 3.6.4 TEST SETUP

#### <Below 30MHz>

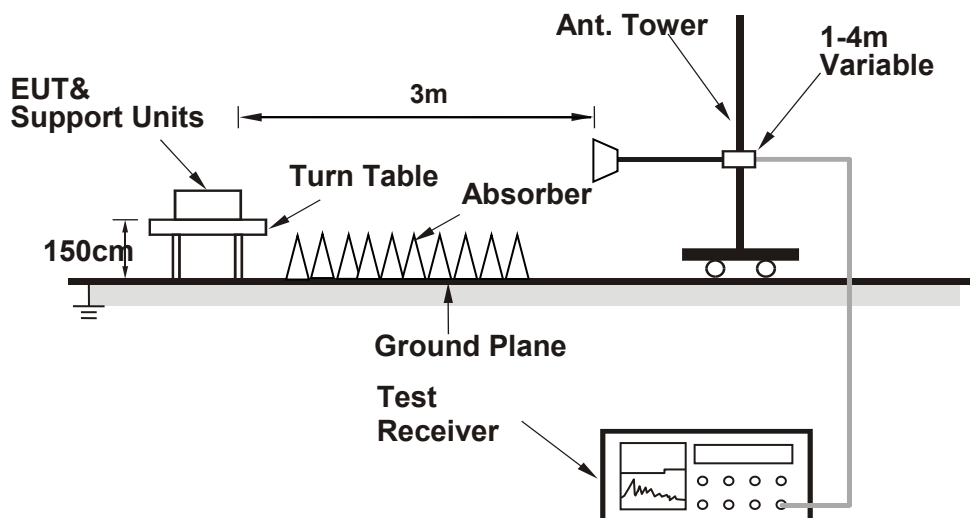


#### < Frequency Range 30MHz~1GHz >





< Frequency Range above 1GHz >



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



### 3.6.5 TEST RESULTS

#### BELOW 1GHz WORST-CASE DATA

**9 KHz – 30 MHz data:** the amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

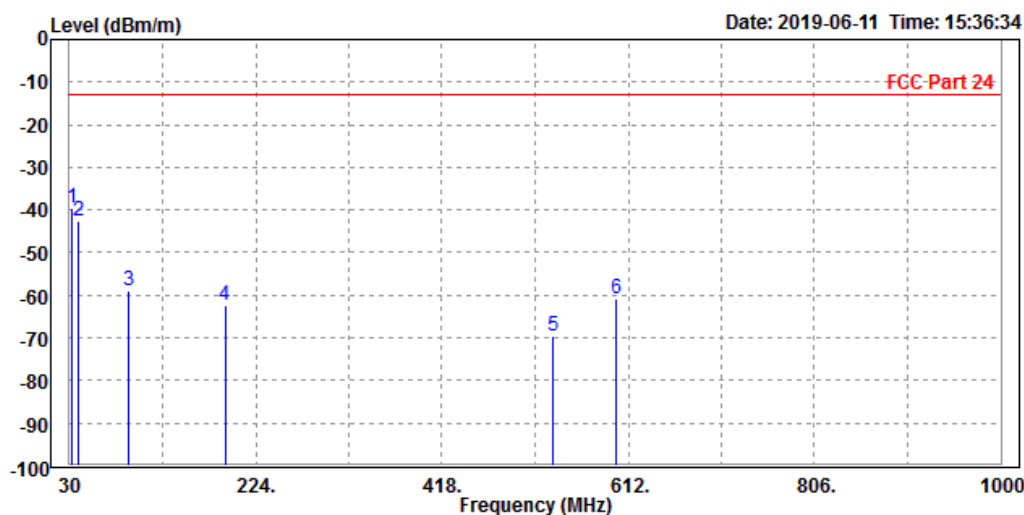
**30 MHz – 1GHz data:**

**LTE Band 25**

**CHANNEL BANDWIDTH: 1.4MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m			
1	PP	31.940	-39.42	-56.09	-13.00	-26.42	16.67	Peak	Horizontal
2		39.700	-42.46	-54.54	-13.00	-29.46	12.08	Peak	Horizontal
3		91.110	-58.92	-49.64	-13.00	-45.92	-9.28	Peak	Horizontal
4		191.990	-62.17	-44.72	-13.00	-49.17	-17.45	Peak	Horizontal
5		533.430	-69.50	-59.68	-13.00	-56.50	-9.82	Peak	Horizontal
6		599.390	-60.87	-52.17	-13.00	-47.87	-8.70	Peak	Horizontal



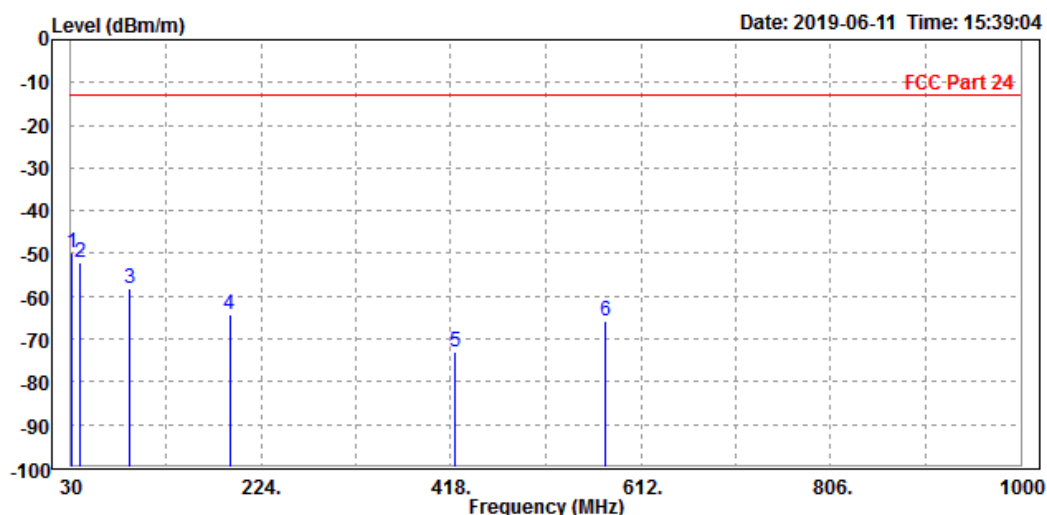


**BUREAU  
VERITAS**

**Test Report No.: RF190517W003-4**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	30.970	-49.94	-53.98	-13.00	-36.94	4.04 Peak	Vertical
2		38.730	-52.12	-50.83	-13.00	-39.12	-1.29 Peak	Vertical
3		90.140	-58.13	-47.59	-13.00	-45.13	-10.54 Peak	Vertical
4		191.990	-64.28	-52.63	-13.00	-51.28	-11.65 Peak	Vertical
5		422.850	-72.85	-62.76	-13.00	-59.85	-10.09 Peak	Vertical
6		576.110	-65.74	-58.42	-13.00	-52.74	-7.32 Peak	Vertical





**ABOVE 1GHz DATA**

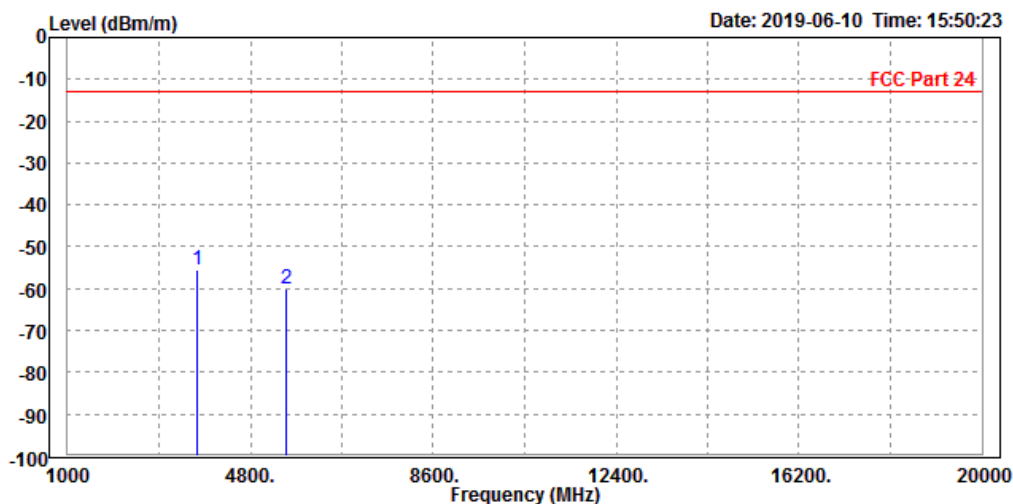
**Note:** For higher frequency, the emission is too low to be detected.

**CDMA BC1**

**CH 25**

<b>MODE</b>	TX channel 25	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

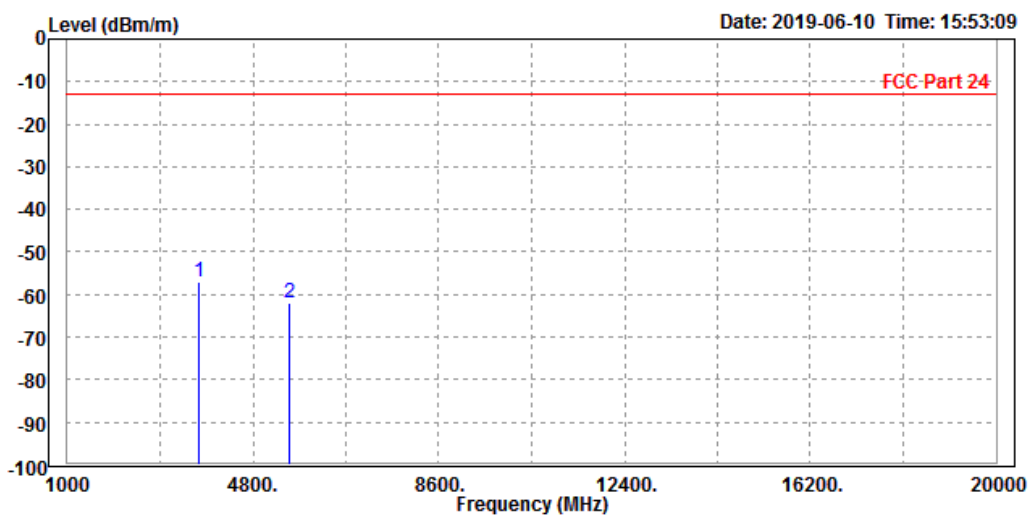
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-55.53	-64.31	-13.00	-42.53	8.78	Peak	Horizontal
2	5553.750	-60.20	-70.40	-13.00	-47.20	10.20	Peak	Horizontal





MODE	TX channel 25	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3698.000	-56.92	-66.17	-13.00	-43.92	9.25	Peak	Vertical
2	5553.750	-62.09	-72.00	-13.00	-49.09	9.91	Peak	Vertical





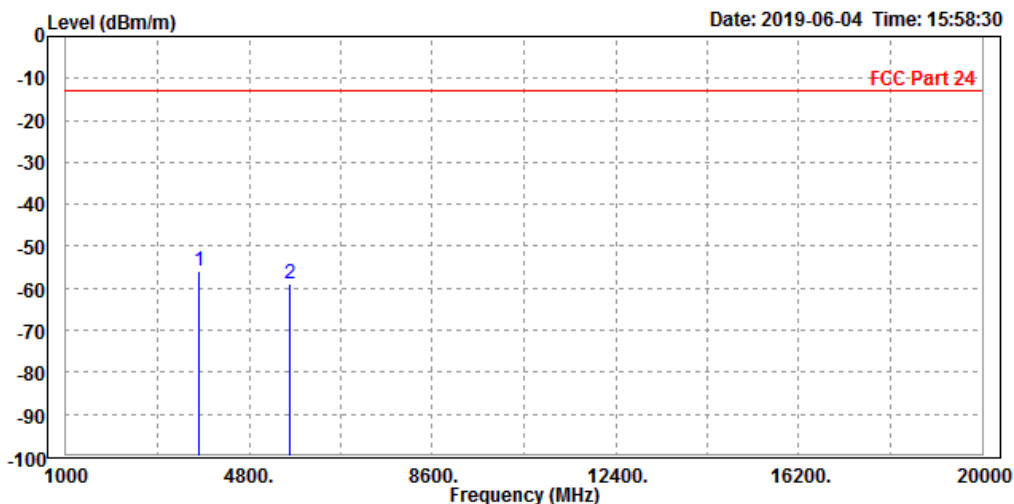
BUREAU VERITAS

Test Report No.: RF190517W003-4

CH 600

MODE	TX channel 600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-56.07	-64.92	-13.00	-43.07	8.85	Peak	Horizontal
2	5640.000	-58.77	-69.25	-13.00	-45.77	10.48	Peak	Horizontal





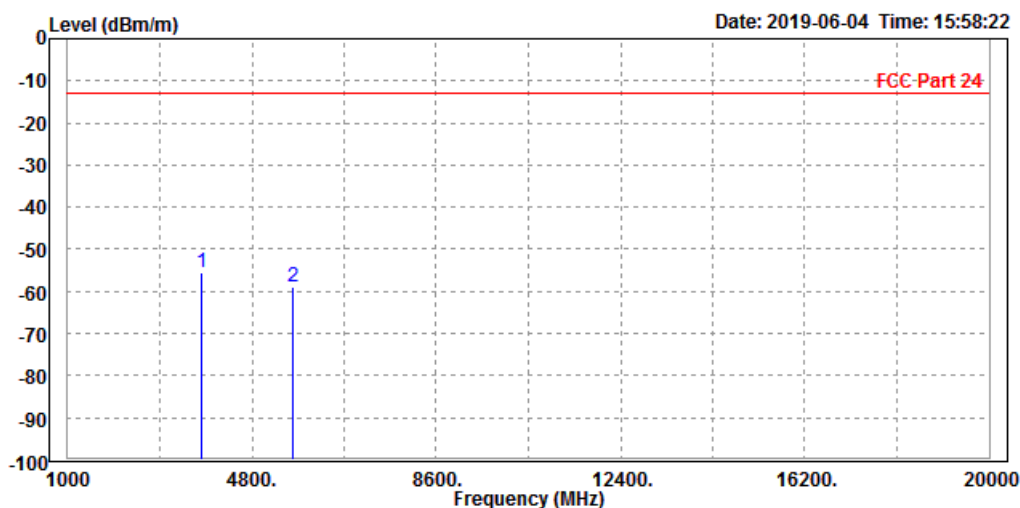


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3755.000	-55.41	-64.68	-13.00	-42.41	9.27	Peak	Vertical
2	5640.000	-58.76	-69.01	-13.00	-45.76	10.25	Peak	Vertical





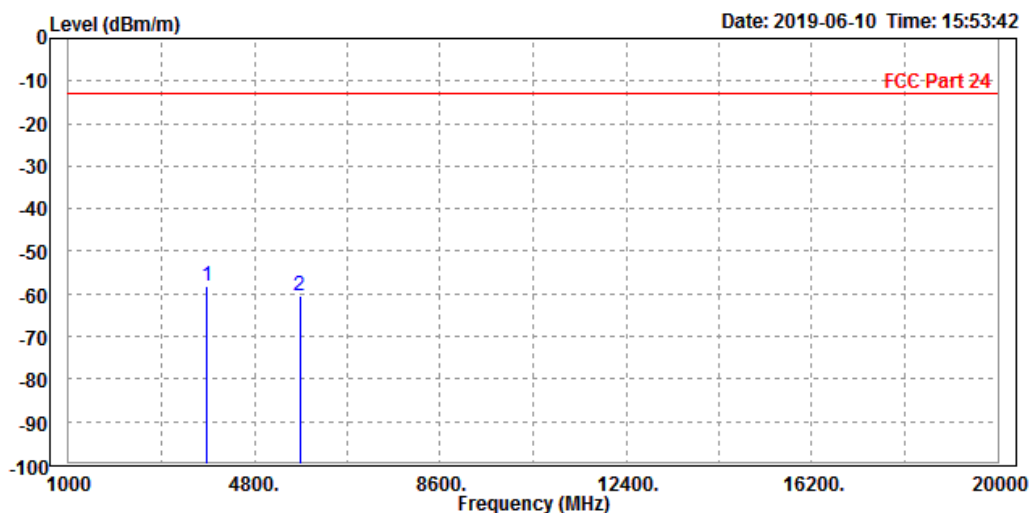
BUREAU VERITAS

Test Report No.: RF190517W003-4

CH 1175

MODE	TX channel 1175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3812.000	-58.24	-67.15	-13.00	-45.24	8.91	Peak	Horizontal
2	5726.250	-60.39	-71.16	-13.00	-47.39	10.77	Peak	Horizontal





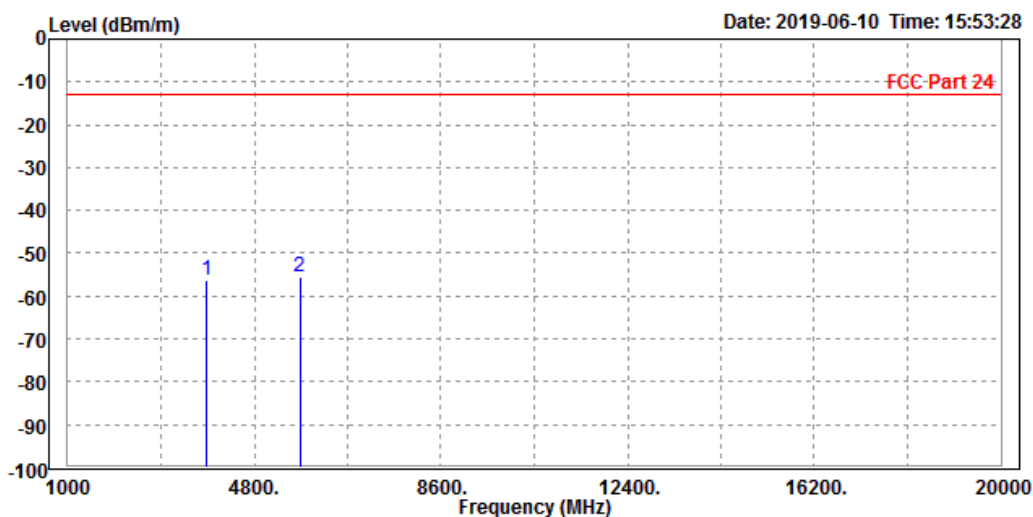
**BUREAU  
VERITAS**

Test Report No.: RF190517W003-4

CH 1175

<b>MODE</b>	TX channel 1175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Tony		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3812.000	-56.40	-65.69	-13.00	-43.40	9.29	Peak	Vertical
2	PP 5726.250	-55.69	-66.27	-13.00	-42.69	10.58	Peak	Vertical





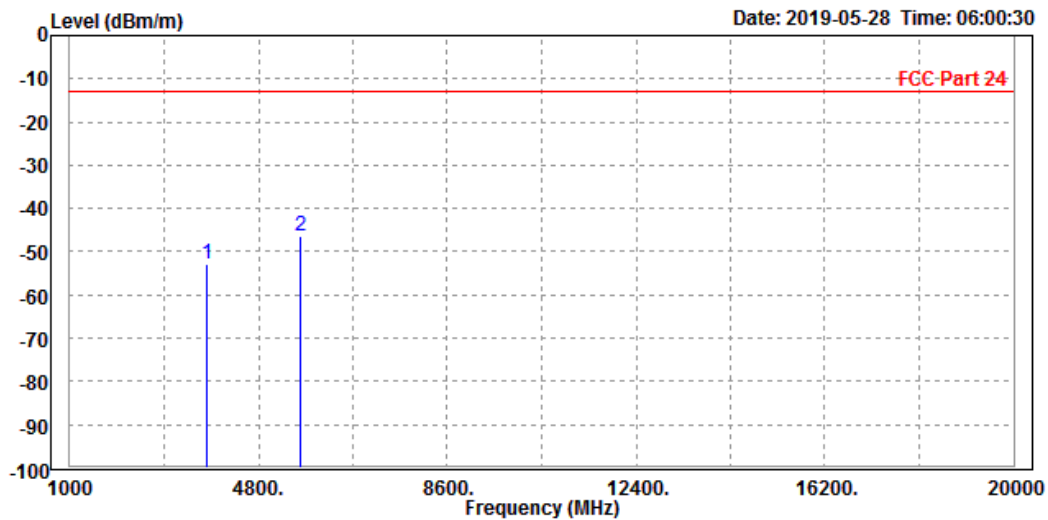
**BUREAU VERITAS** Test Report No.: RF190517W003-4

LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.74	-56.13	-13.00	-39.74	3.39	Peak	Horizontal
2 PP	5640.000	-46.25	-55.37	-13.00	-33.25	9.12	Peak	Horizontal



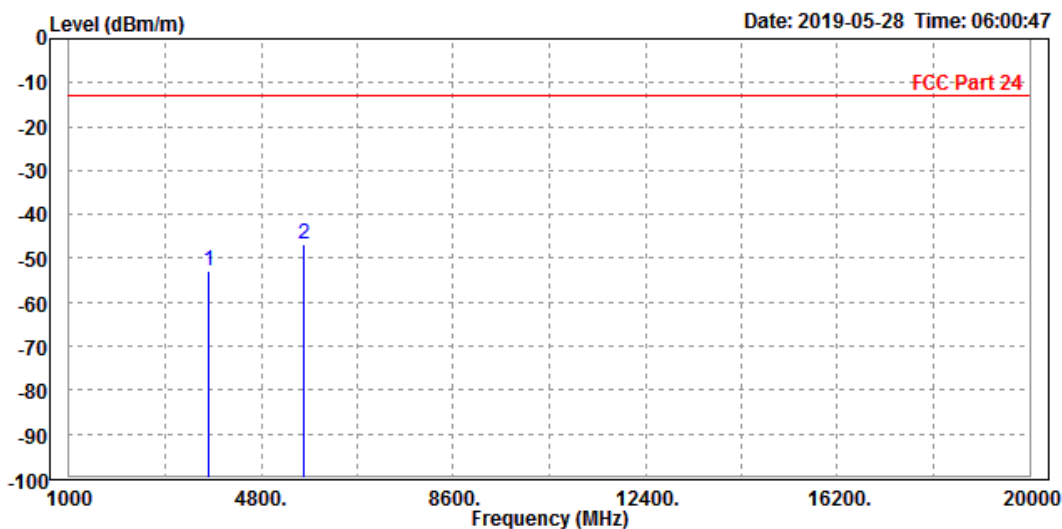


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.90	-56.75	-13.00	-39.90	3.85	Peak	Vertical
2 PP	5640.000	-46.63	-54.89	-13.00	-33.63	8.26	Peak	Vertical





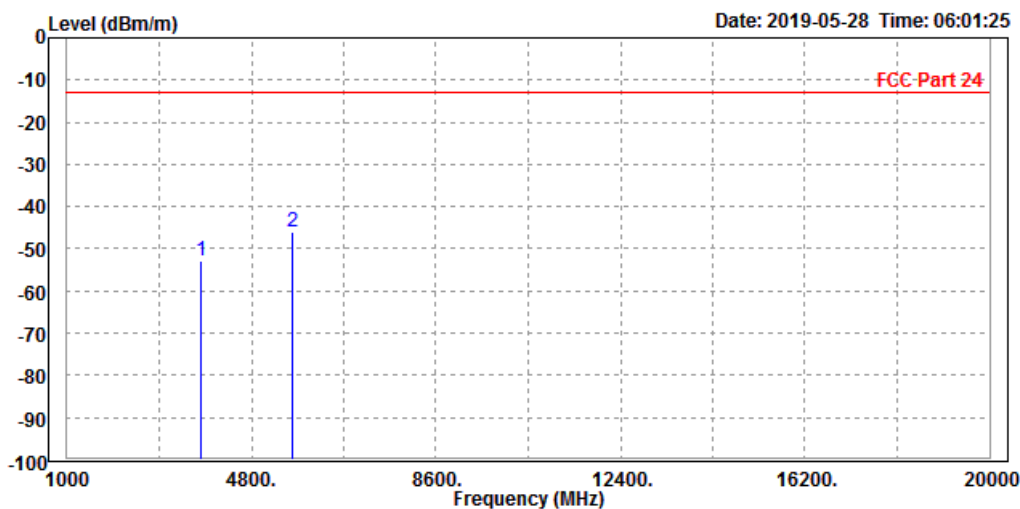
BUREAU VERITAS

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.75	-56.14	-13.00	-39.75	3.39	Peak	Horizontal
2 PP	5640.000	-46.16	-55.28	-13.00	-33.16	9.12	Peak	Horizontal



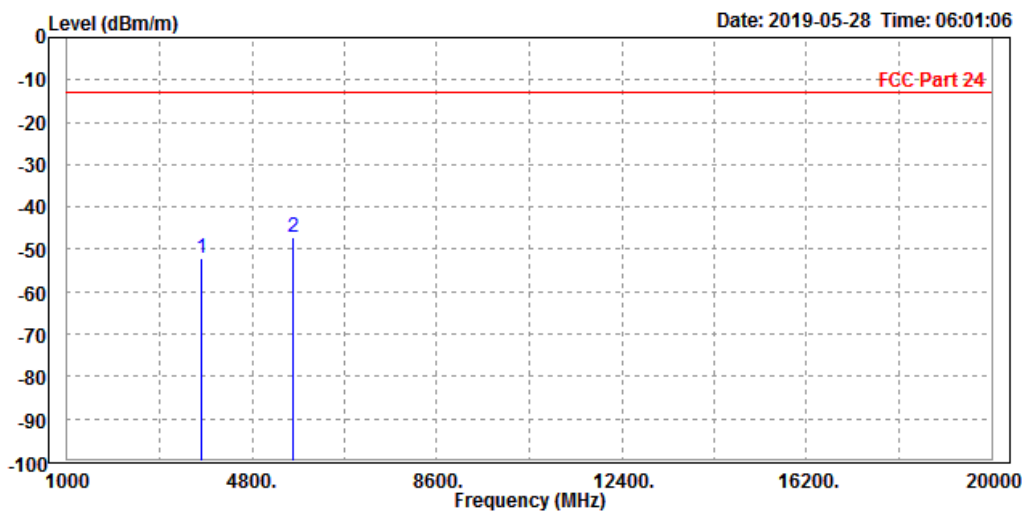


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.17	-56.02	-13.00	-39.17	3.85	Peak	Vertical
2 PP	5640.000	-47.12	-55.38	-13.00	-34.12	8.26	Peak	Vertical





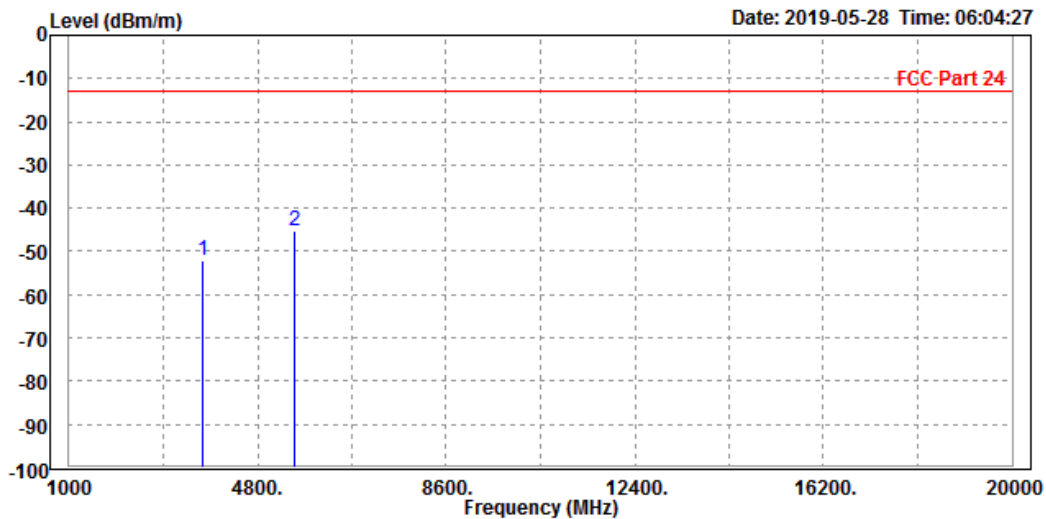
**BUREAU VERITAS** Test Report No.: RF190517W003-4

**CHANNEL BANDWIDTH: 5MHz / QPSK**

**CH18625**

<b>MODE</b>	TX channel 18625	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3705.000	-52.23	-55.38	-13.00	-39.23	3.15	Peak	Horizontal
2 PP	5556.000	-45.29	-54.32	-13.00	-32.29	9.03	Peak	Horizontal





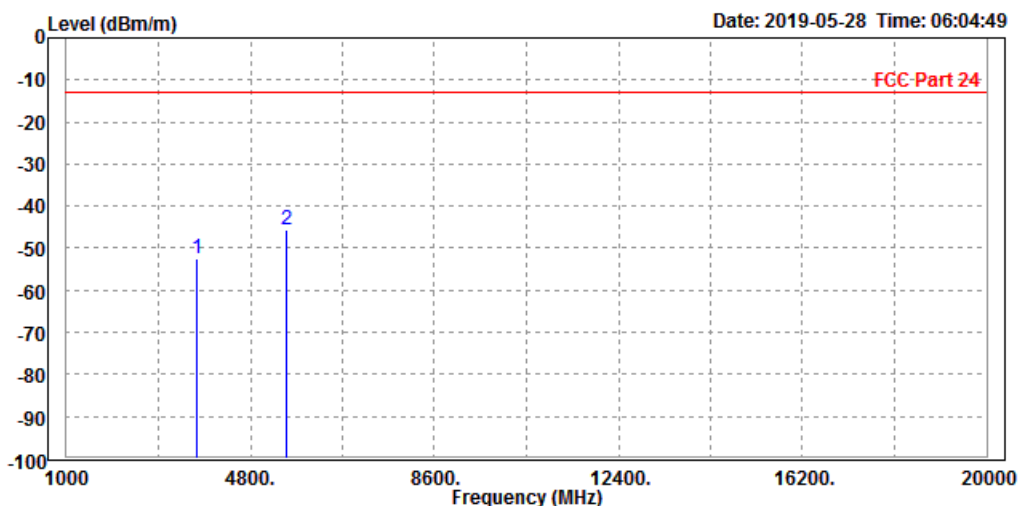


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 18625	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3705.000	-52.56	-56.16	-13.00	-39.56	3.60	Peak	Vertical
2 PP	5556.000	-45.59	-53.67	-13.00	-32.59	8.08	Peak	Vertical





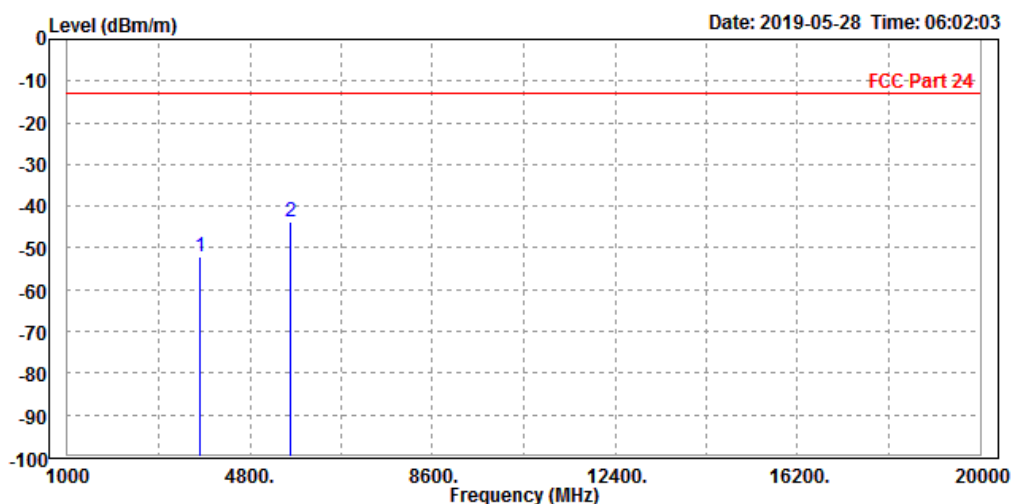
BUREAU VERITAS

Test Report No.: RF190517W003-4

CH18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.92	-55.31	-13.00	-38.92	3.39	Peak	Horizontal
2 PP	5640.000	-43.64	-52.76	-13.00	-30.64	9.12	Peak	Horizontal



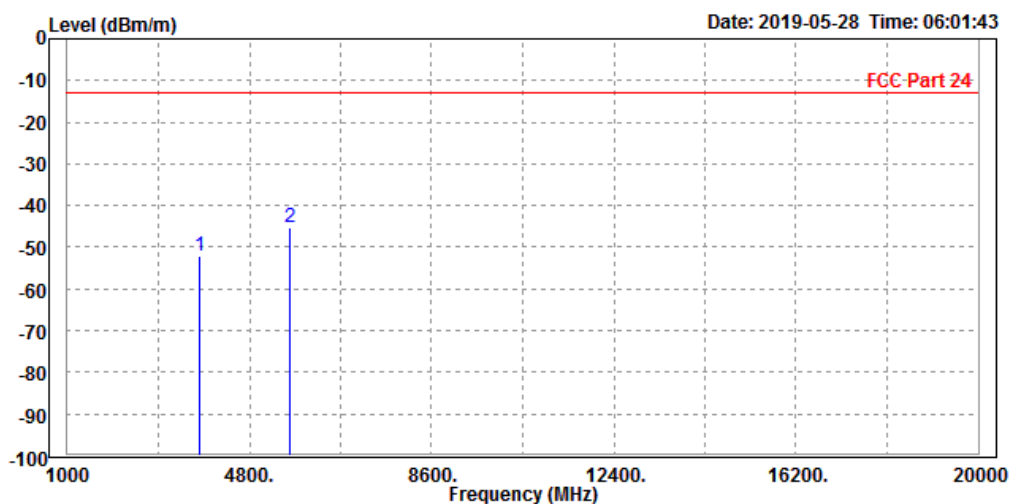


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-51.93	-55.78	-13.00	-38.93	3.85		Vertical
2 PP	5640.000	-45.23	-53.49	-13.00	-32.23	8.26		Vertical





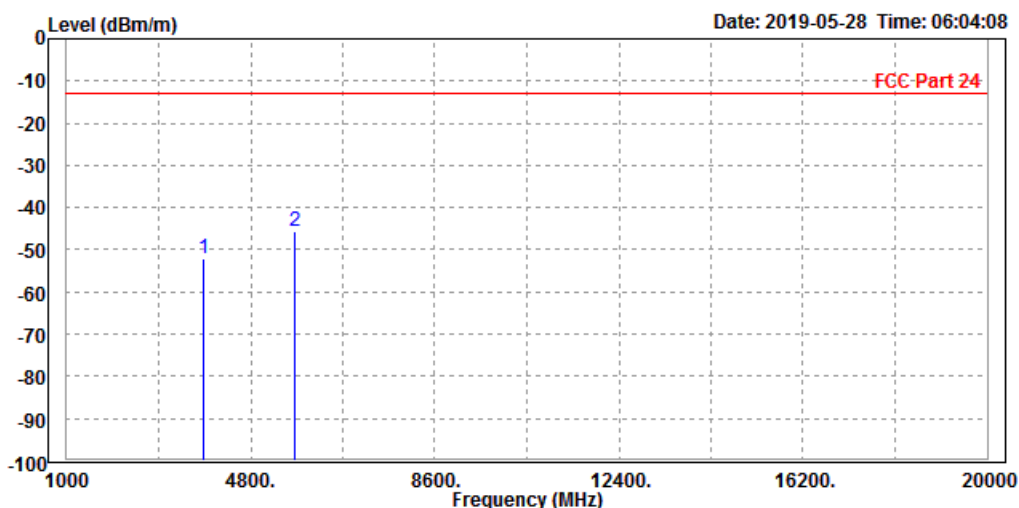
BUREAU VERITAS

Test Report No.: RF190517W003-4

CH19175

MODE	TX channel 19175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3815.000	-52.08	-55.76	-13.00	-39.08	3.68	Peak	Horizontal
2 PP	5725.000	-45.46	-54.68	-13.00	-32.46	9.22	Peak	Horizontal



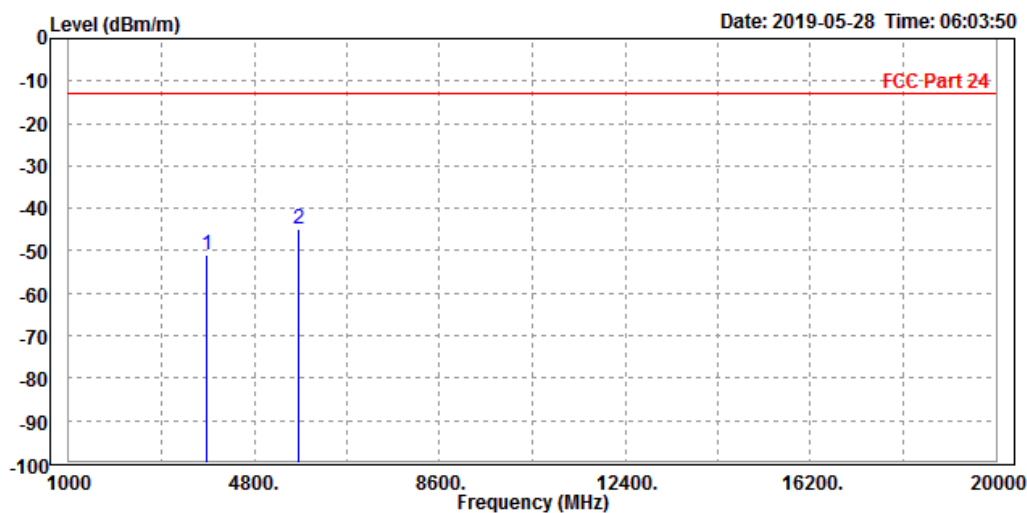


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 19175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3815.000	-51.07	-55.23	-13.00	-38.07	4.16	Peak	Vertical
2	PP 5725.000	-44.69	-53.12	-13.00	-31.69	8.43	Peak	Vertical





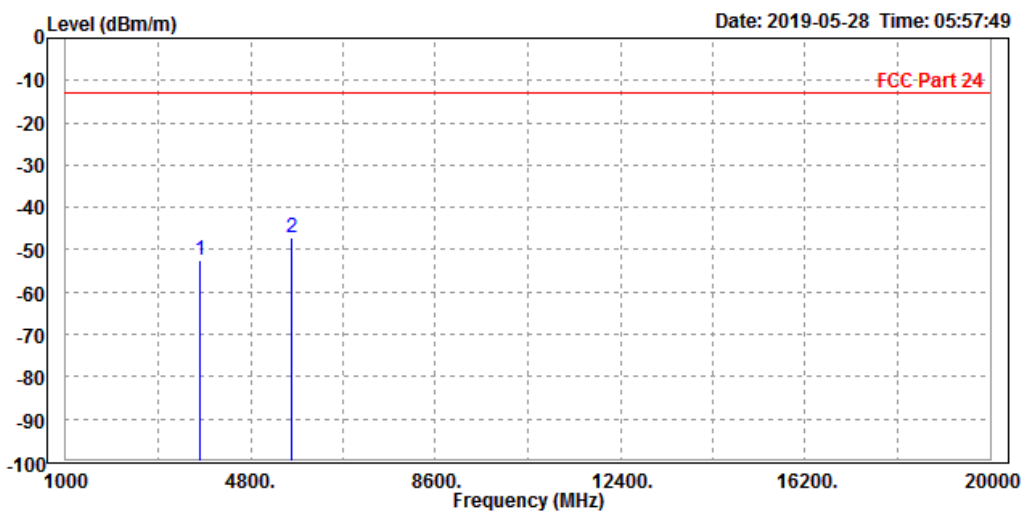
BUREAU VERITAS

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

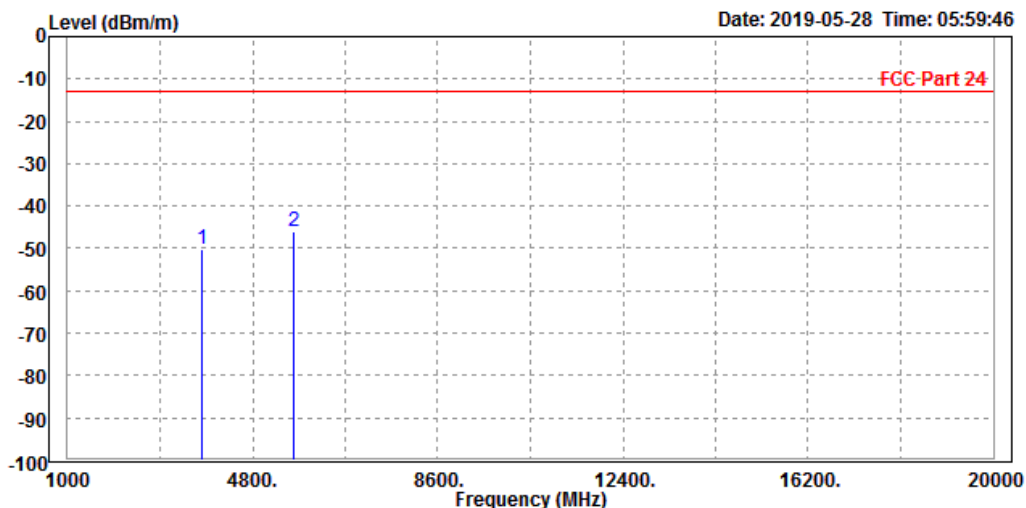
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.40	-55.79	-13.00	-39.40	3.39	Peak	Horizontal
2 PP	5640.000	-47.25	-56.37	-13.00	-34.25	9.12	Peak	Horizontal





<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-50.38	-54.23	-13.00	-37.38	3.85	Peak	Vertical
2 PP	5636.000	-45.96	-54.21	-13.00	-32.96	8.25	Peak	Vertical

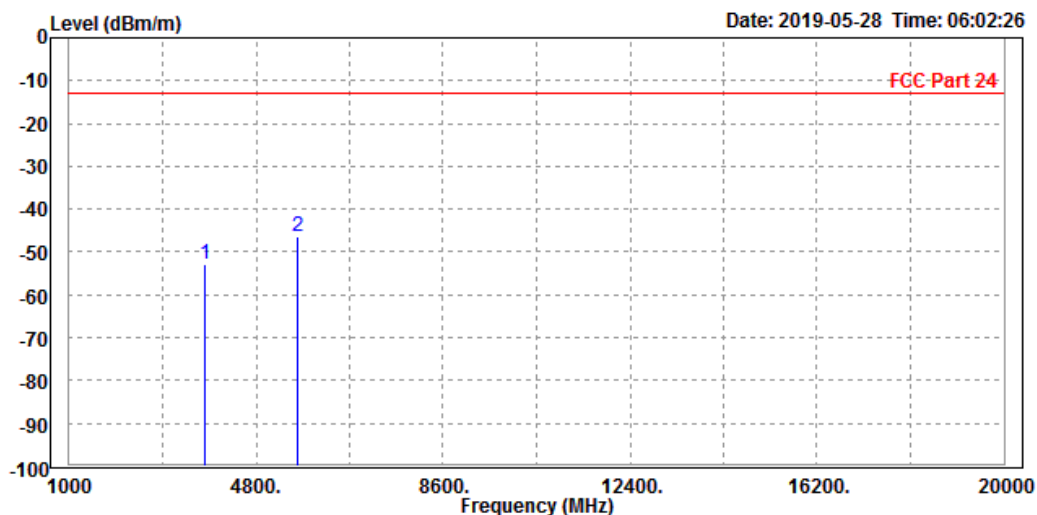




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-53.03	-56.42	-13.00	-40.03	3.39	Peak	Horizontal
2 PP	5640.000	-46.34	-55.46	-13.00	-33.34	9.12	Peak	Horizontal





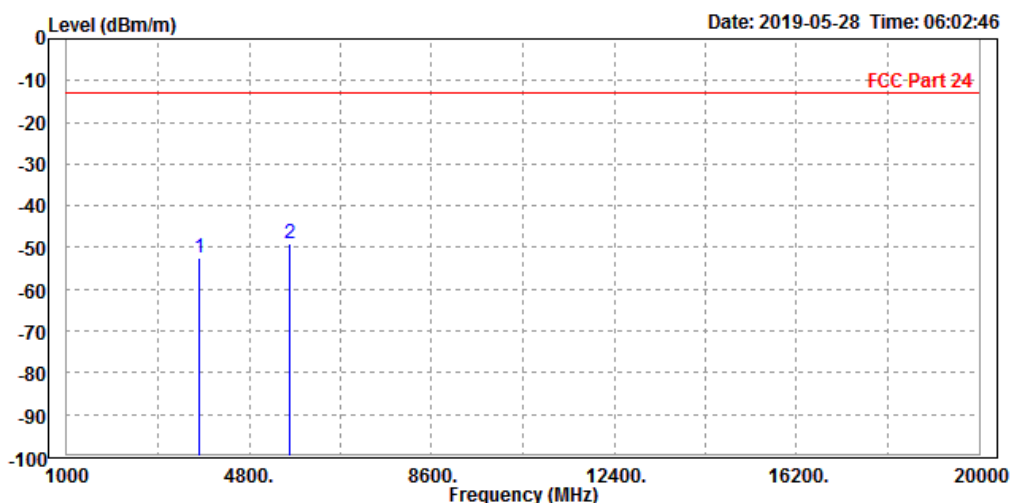


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.36	-56.21	-13.00	-39.36	3.85	Peak	Vertical
2 PP	5640.000	-48.89	-57.15	-13.00	-35.89	8.26	Peak	Vertical





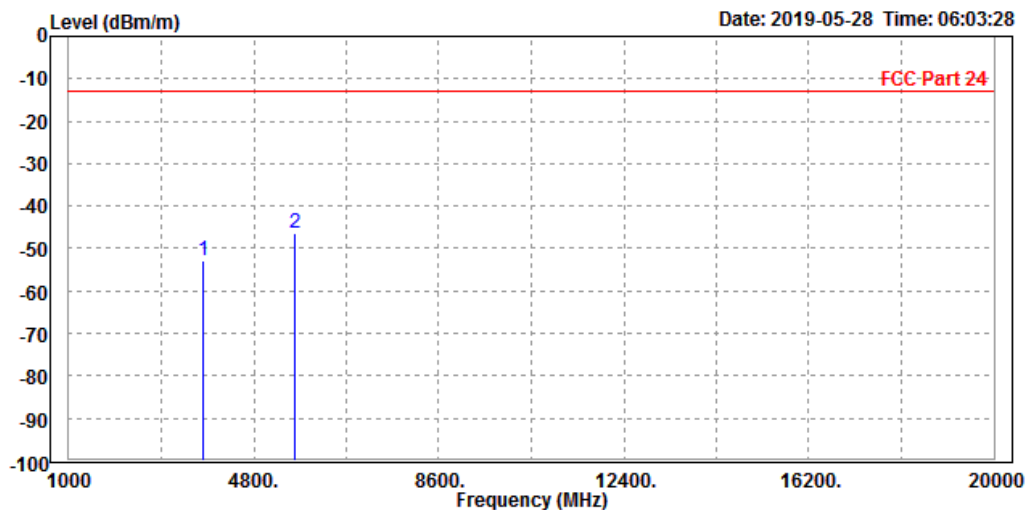
**BUREAU  
VERITAS**

Test Report No.: RF190517W003-4

**CHANNEL BANDWIDTH: 20MHz / QPSK**

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-52.74	-56.13	-13.00	-39.74	3.39	Peak	Horizontal
2	PP 5640.000	-46.36	-55.48	-13.00	-33.36	9.12	Peak	Horizontal



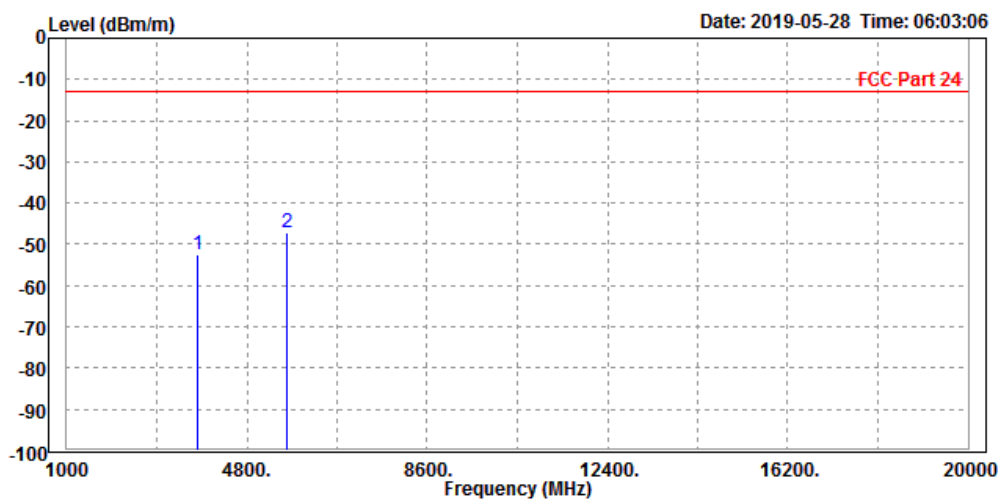


**BUREAU  
VERITAS**

Test Report No.: RF190517W003-4

<b>MODE</b>	TX channel 18900	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Read	Limit	Over			
Freq	Level	Level	Line	Limit	Factor	Remark
MHz	dBm/m	dBm	dBm/m	dB	dB/m	Pol/Phase
1	3755.000	-52.39	-56.24	-13.00	-39.39	3.85 Peak Vertical
2	PP 5640.000	-47.10	-55.36	-13.00	-34.10	8.26 Peak Vertical





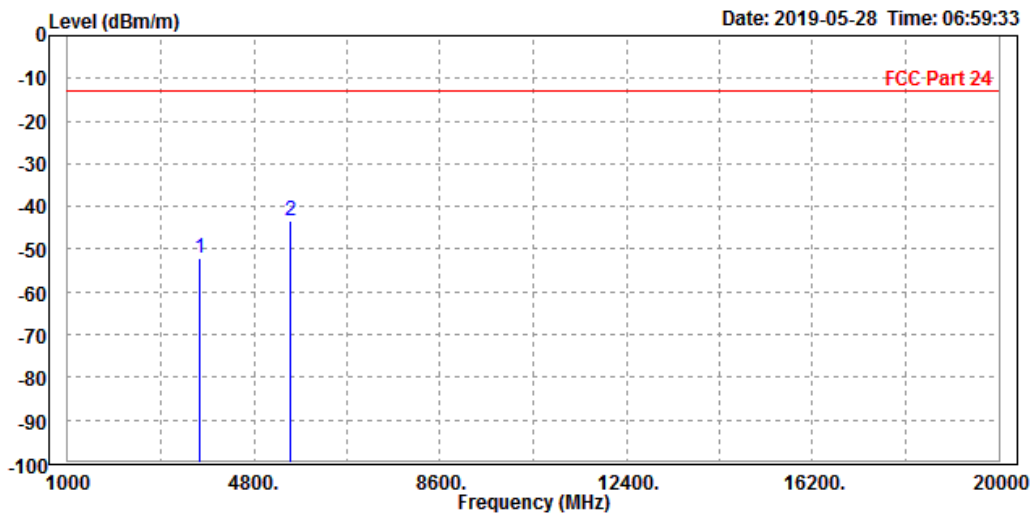
LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH26047

<b>MODE</b>	TX channel 26047	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3704.000	-52.18	-55.32	-13.00	-39.18	3.14	Peak	Horizontal
2 PP	5552.100	-43.44	-52.46	-13.00	-30.44	9.02	Peak	Horizontal



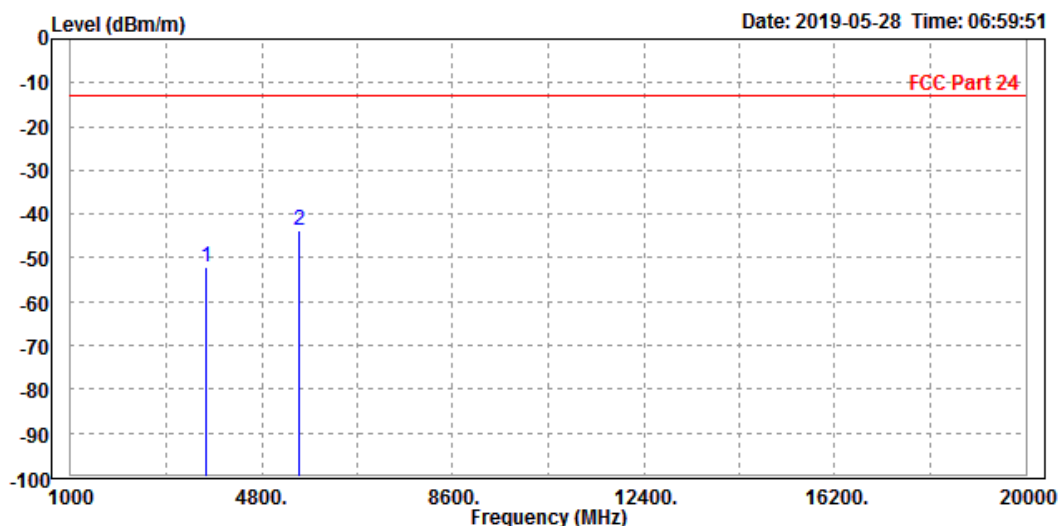


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 26047	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3704.000	-51.96	-55.56	-13.00	-38.96	3.60	Peak	Vertical
2 PP	5552.100	-43.90	-51.98	-13.00	-30.90	8.08	Peak	Vertical





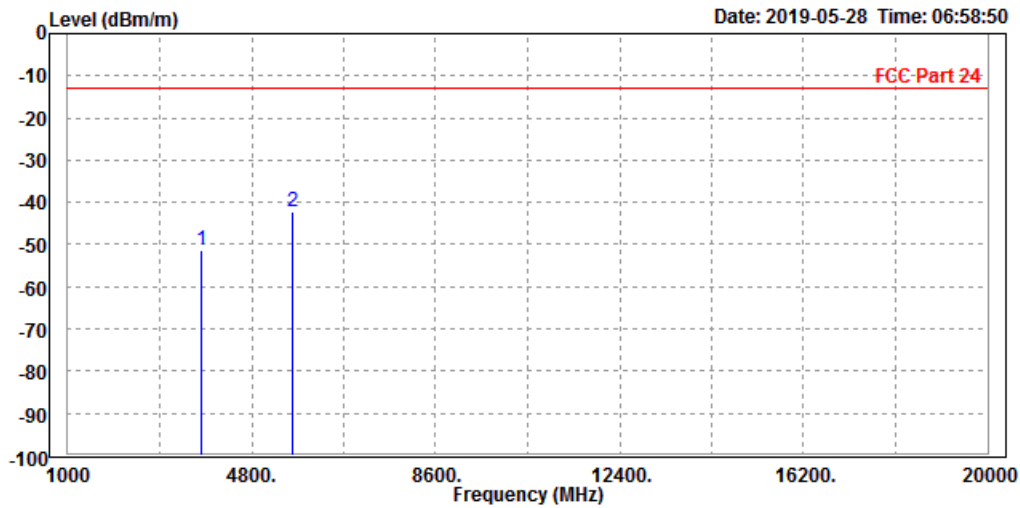
BUREAU VERITAS

Test Report No.: RF190517W003-4

CH26365

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-51.50	-54.89	-13.00	-38.50	3.39	Peak	Horizontal
2 PP	5647.500	-42.10	-51.23	-13.00	-29.10	9.13	Peak	Horizontal



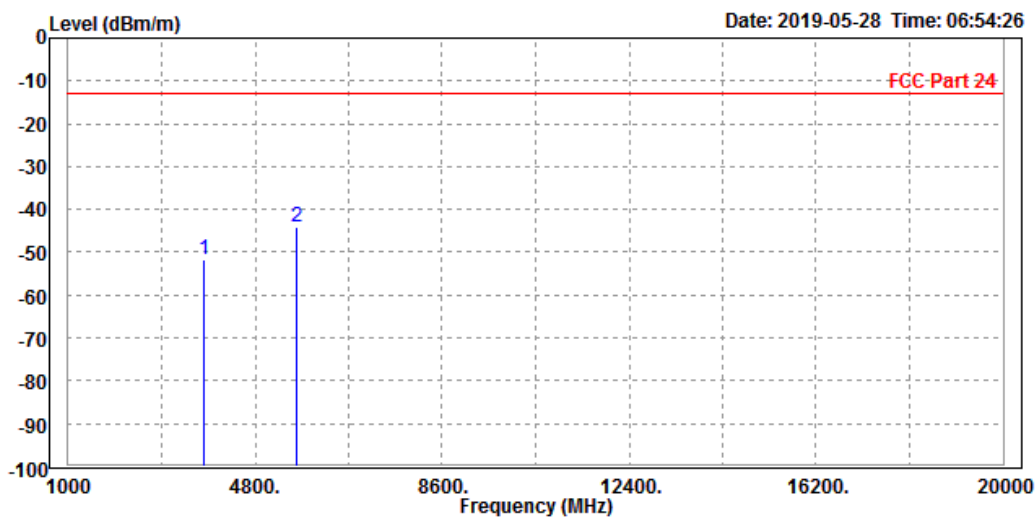


**BUREAU  
VERITAS**

Test Report No.: RF190517W003-4

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-51.82	-55.68	-13.00	-38.82	3.86	Peak	Vertical
2 PP	5647.500	-44.18	-52.45	-13.00	-31.18	8.27	Peak	Vertical





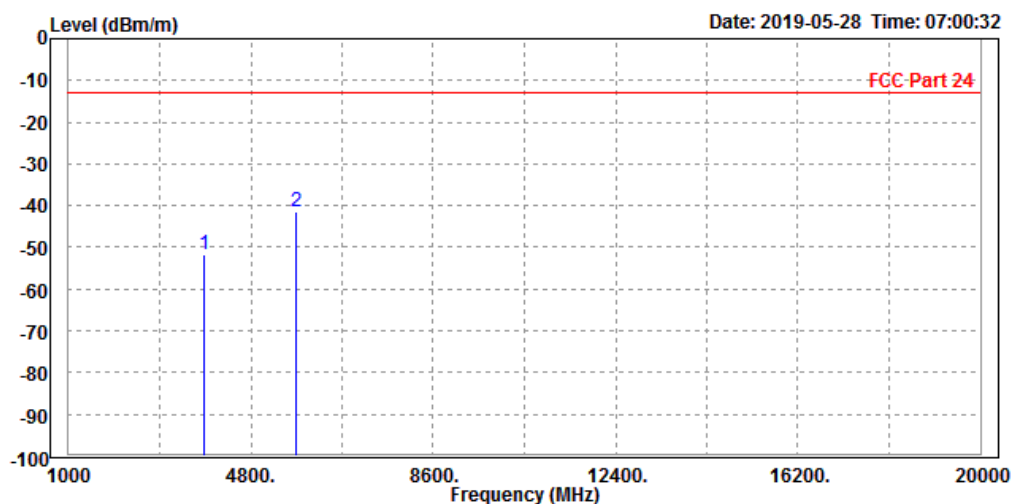
BUREAU VERITAS

Test Report No.: RF190517W003-4

CH26683

<b>MODE</b>	TX channel 26683	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3834.000	-51.61	-55.38	-13.00	-38.61	3.77	Peak	Horizontal
2 PP	5742.900	-41.55	-50.79	-13.00	-28.55	9.24	Peak	Horizontal





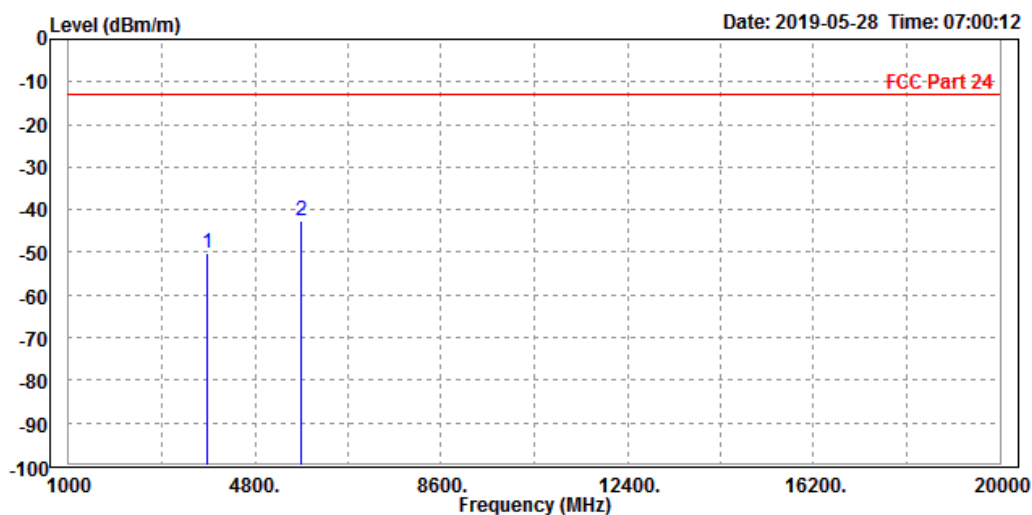


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 26683	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3834.000	-50.02	-54.27	-13.00	-37.02	4.25	Peak	Vertical
2 PP	5742.900	-42.65	-51.12	-13.00	-29.65	8.47	Peak	Vertical





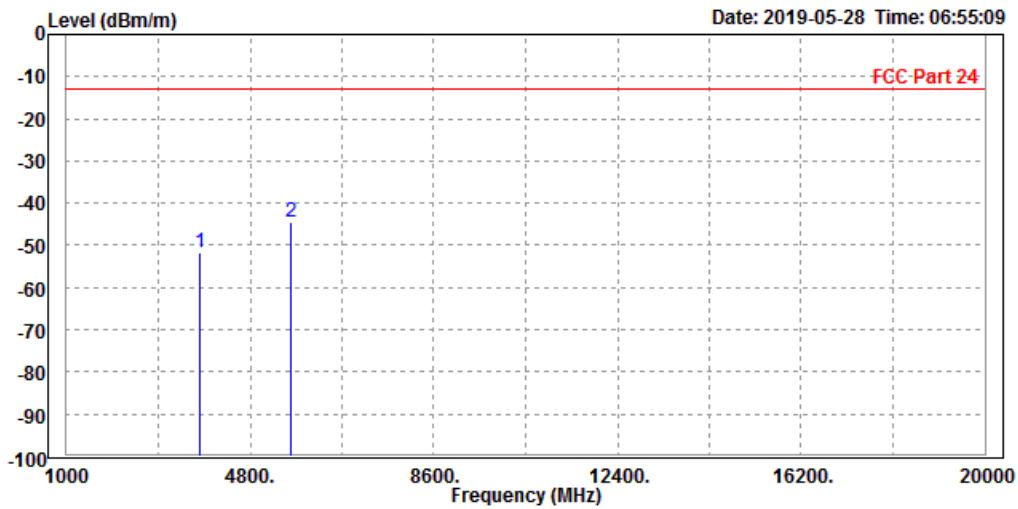
BUREAU VERITAS

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-51.73	-55.12	-13.00	-38.73	3.39	Peak	Horizontal
2 PP	5647.500	-44.51	-53.64	-13.00	-31.51	9.13	Peak	Horizontal



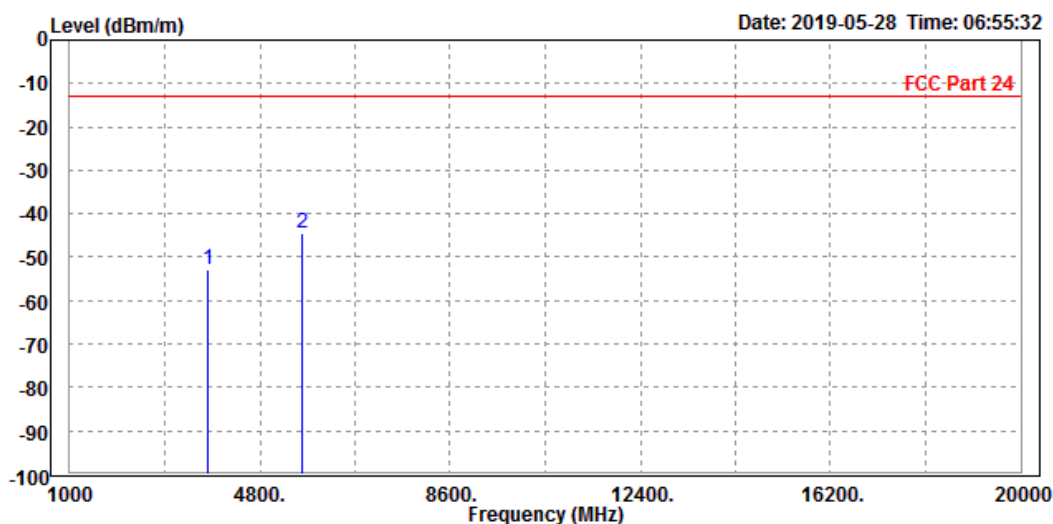


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-52.89	-56.75	-13.00	-39.89	3.86	Peak	Vertical
2 PP	5647.500	-44.41	-52.68	-13.00	-31.41	8.27	Peak	Vertical

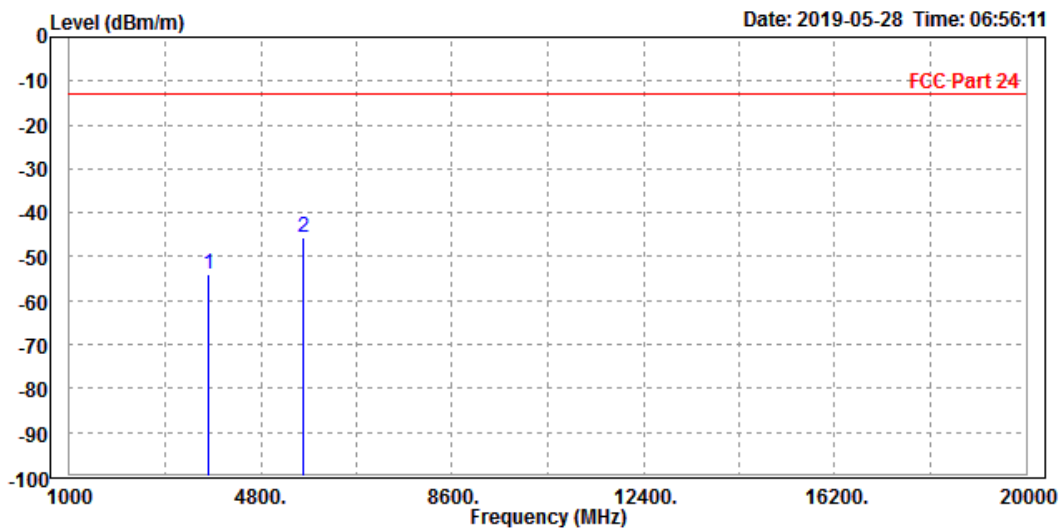




**CHANNEL BANDWIDTH: 5MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-54.10	-57.49	-13.00	-41.10	3.39	Peak	Horizontal
2	PP 5647.500	-45.54	-54.67	-13.00	-32.54	9.13	Peak	Horizontal



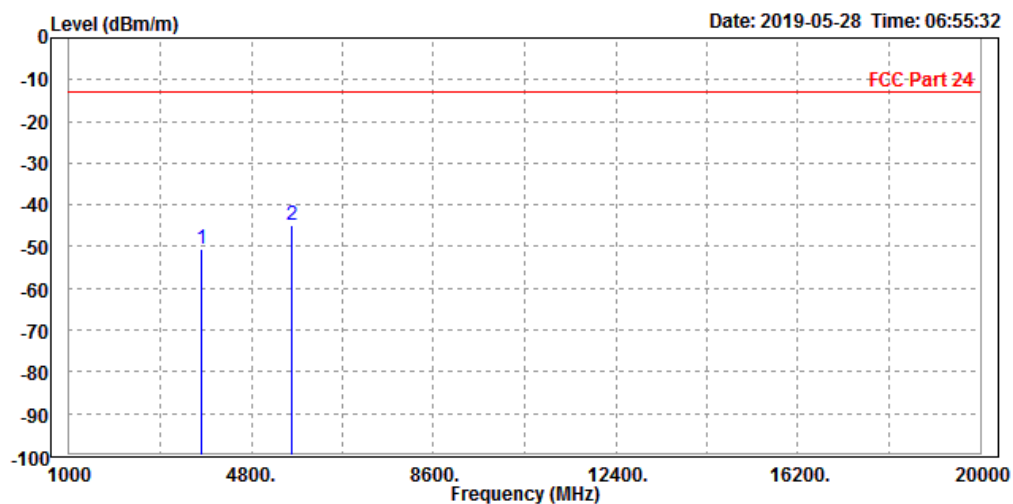


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-50.41	-54.27	-13.00	-37.41	3.86	Peak	Vertical
2 PP	5647.500	-44.89	-53.16	-13.00	-31.89	8.27	Peak	Vertical





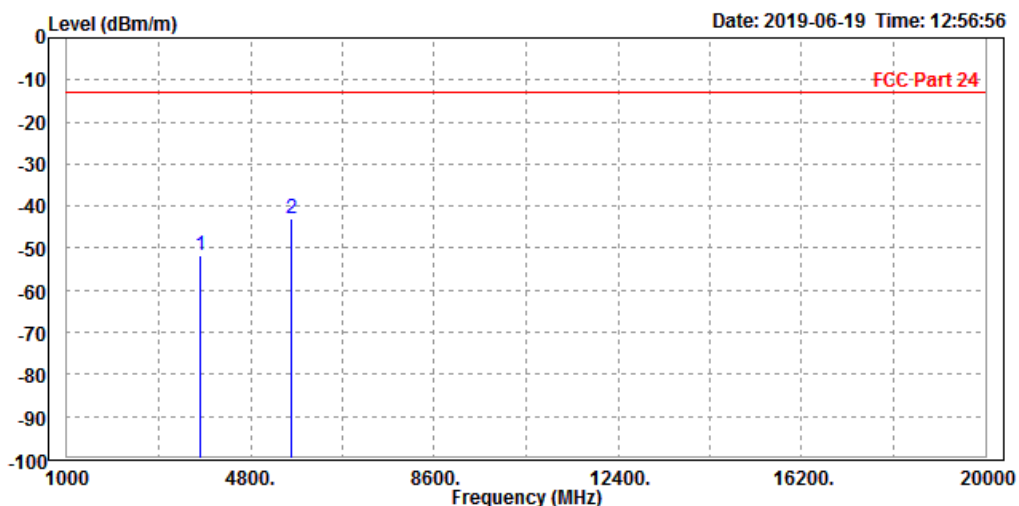
BUREAU VERITAS

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-51.84	-55.23	-13.00	-38.84	3.39	Peak	Horizontal
2 PP	5647.500	-42.99	-52.12	-13.00	-29.99	9.13	Peak	Horizontal



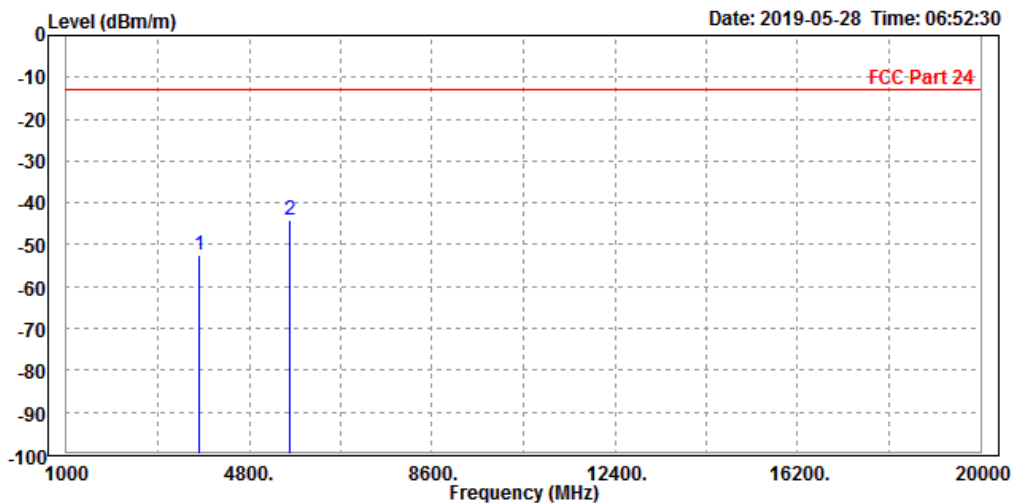


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-52.48	-56.34	-13.00	-39.48	3.86	Peak	Vertical
2 PP	5647.500	-44.04	-52.31	-13.00	-31.04	8.27	Peak	Vertical





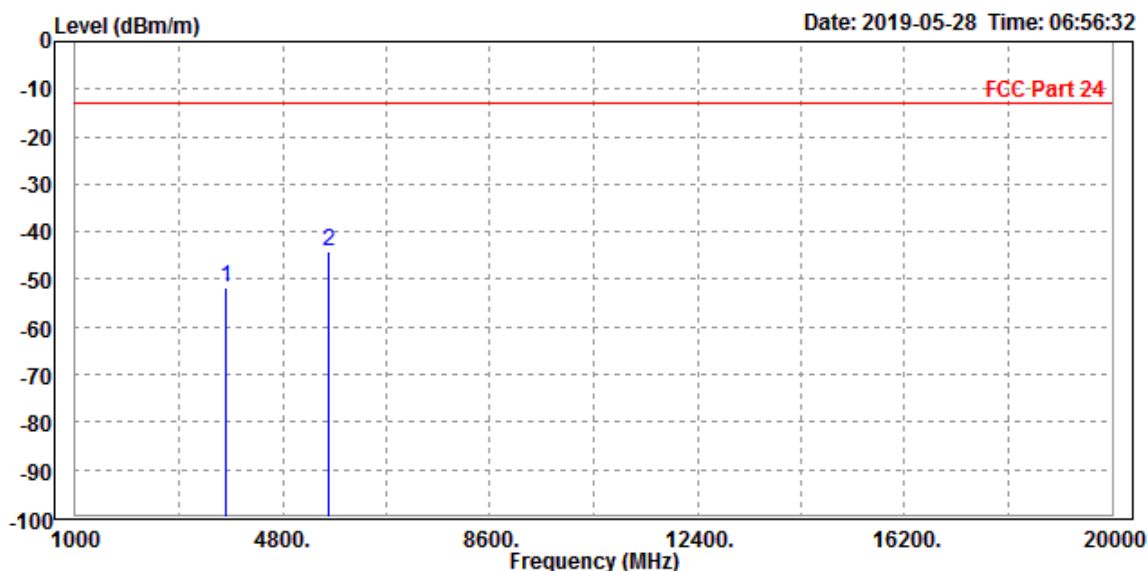
**BUREAU  
VERITAS**

Test Report No.: RF190517W003-4

**CHANNEL BANDWIDTH: 15MHz / QPSK**

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-51.89	-55.28	-13.00	-38.89	3.39	Peak	Horizontal
2 PP	5647.500	-44.08	-53.21	-13.00	-31.08	9.13	Peak	Horizontal





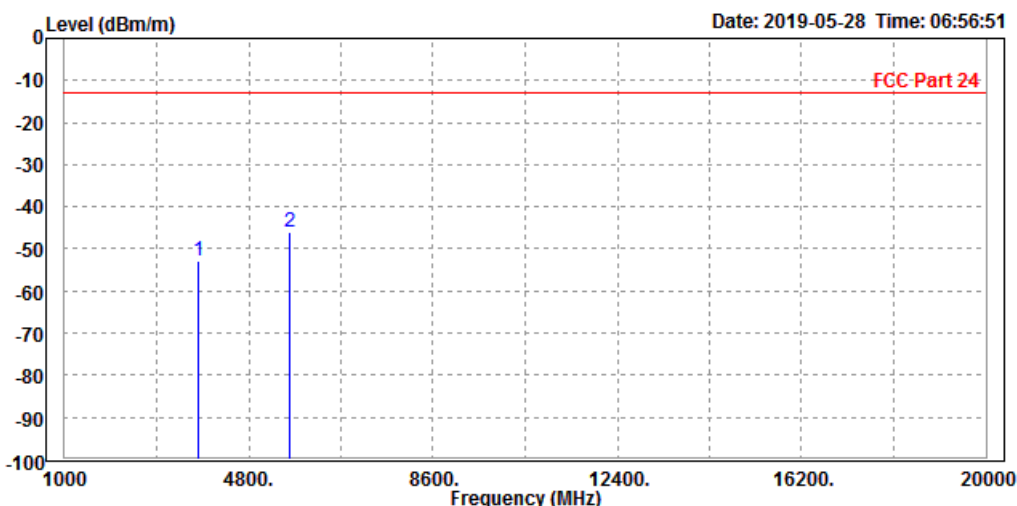


BUREAU VERITAS

Test Report No.: RF190517W003-4

<b>MODE</b>	TX channel 26365	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	DC 5V from adapter
<b>TESTED BY</b>	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-52.98	-56.84	-13.00	-39.98	3.86	Peak	Vertical
2	PP 5647.500	-46.04	-54.31	-13.00	-33.04	8.27	Peak	Vertical





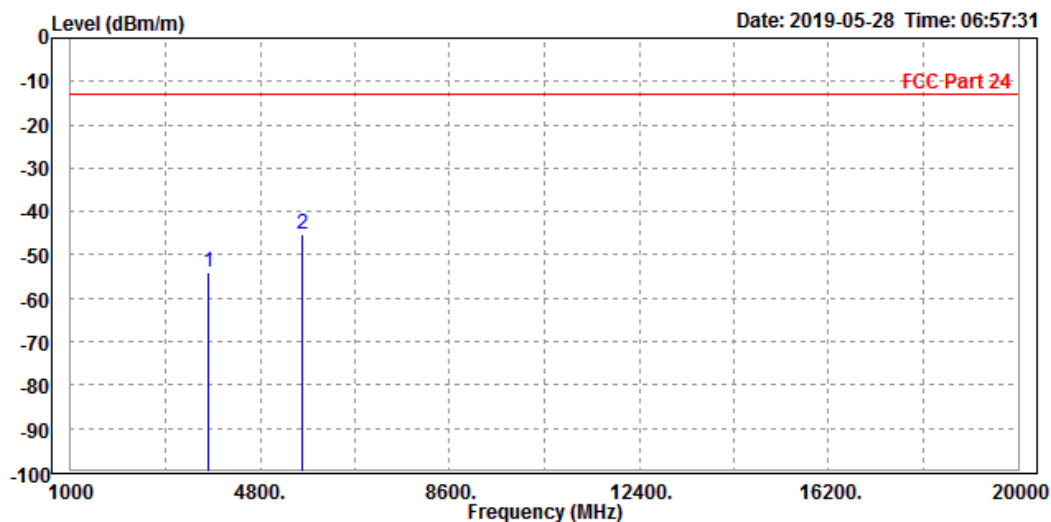
BUREAU VERITAS

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-53.97	-57.36	-13.00	-40.97	3.39	Peak	Horizontal
2 PP	5647.500	-45.08	-54.21	-13.00	-32.08	9.13	Peak	Horizontal



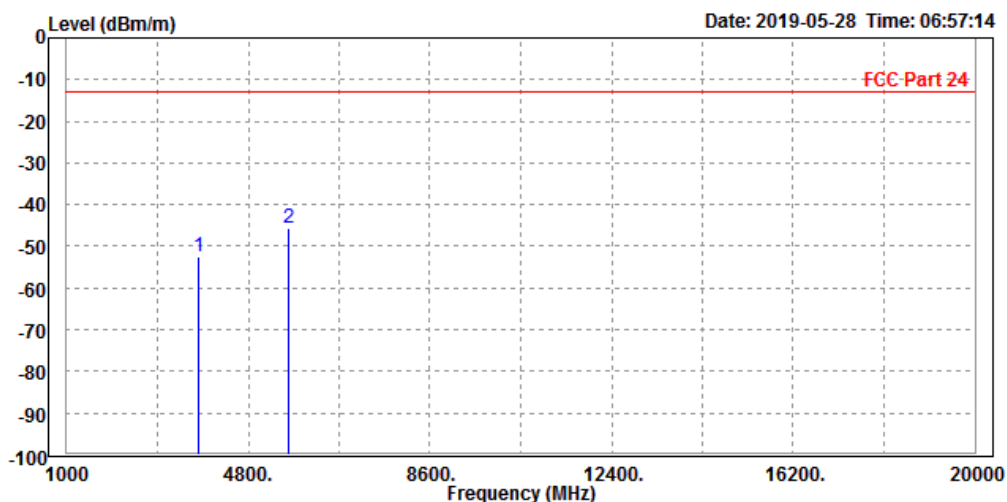


BUREAU VERITAS

Test Report No.: RF190517W003-4

MODE	TX channel 26365	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3756.000	-52.49	-56.35	-13.00	-39.49	3.86	Peak	Vertical
2 PP	5647.500	-45.51	-53.78	-13.00	-32.51	8.27	Peak	Vertical



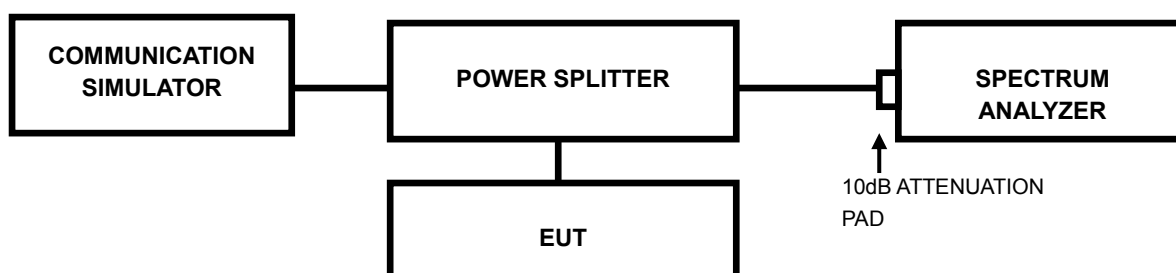


### 3.7 PEAK TO AVERAGE RATIO

#### 3.7.1 LIMITS OF peak to average ratio MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

#### 3.7.2 TEST SETUP



#### 3.7.3 TEST PROCEDURES

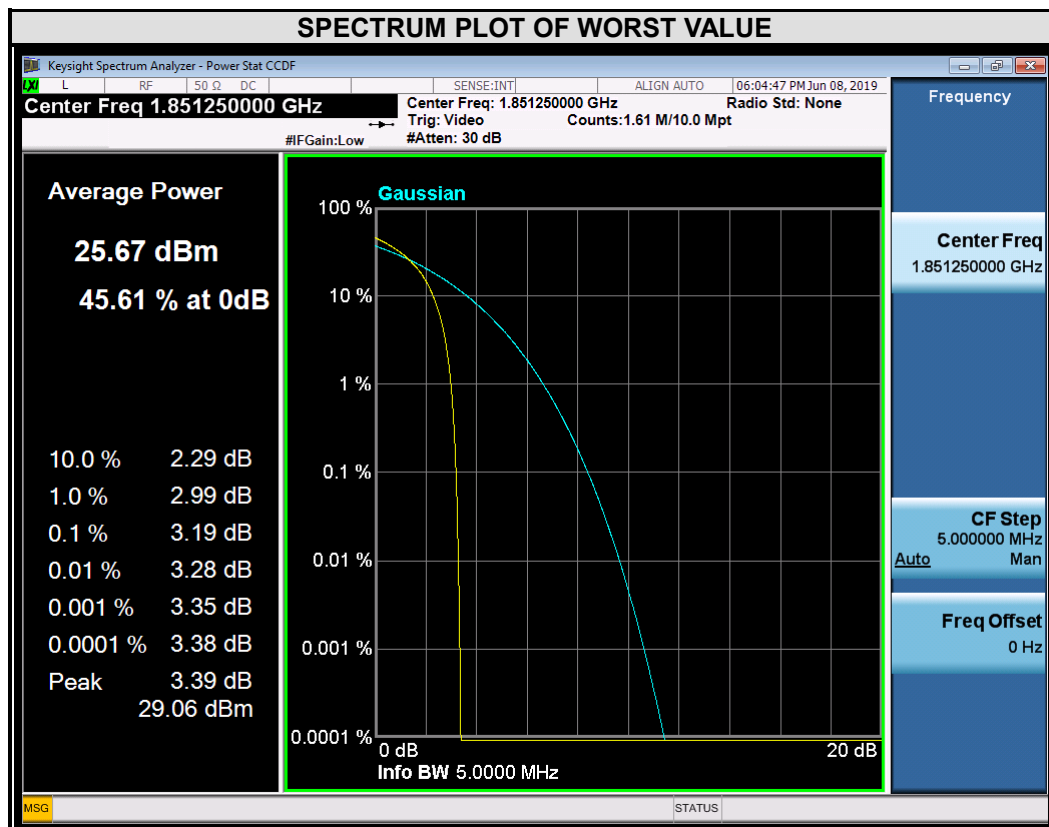
1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



### 3.7.4 TEST RESULTS

#### CDMA BC1

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
25	1851.2	3.19

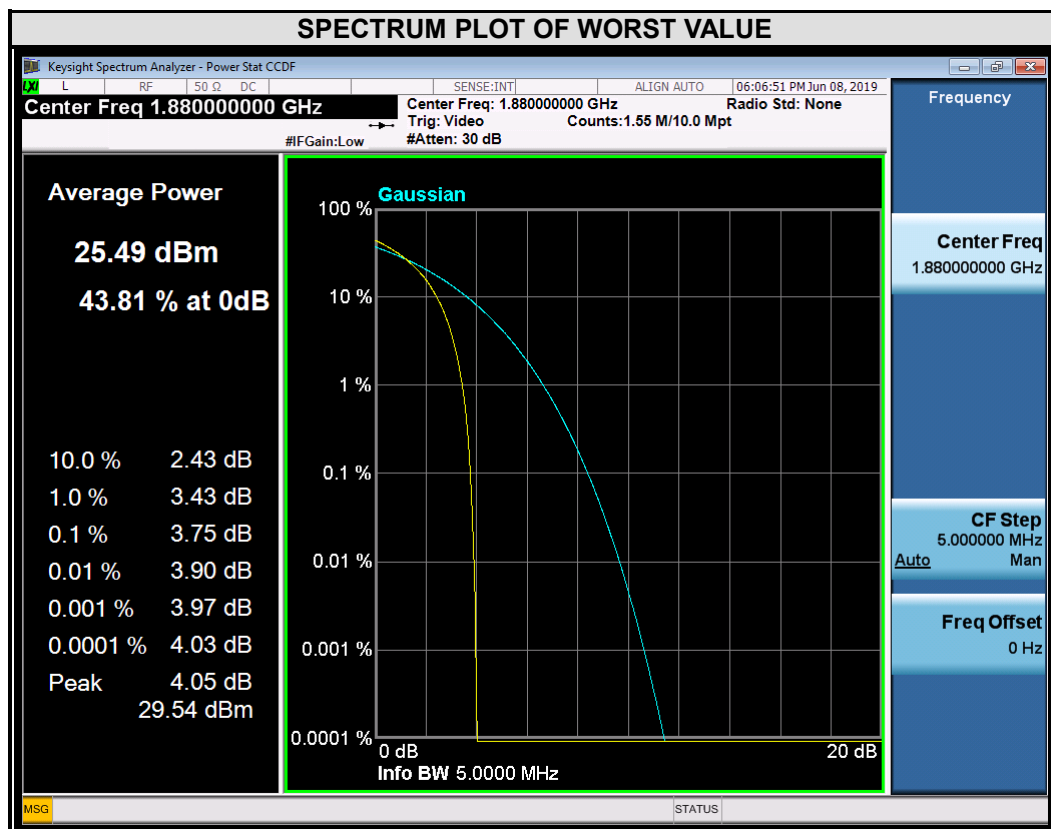




BUREAU VERITAS

Test Report No.: RF190517W003-4

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
600	1880	3.75

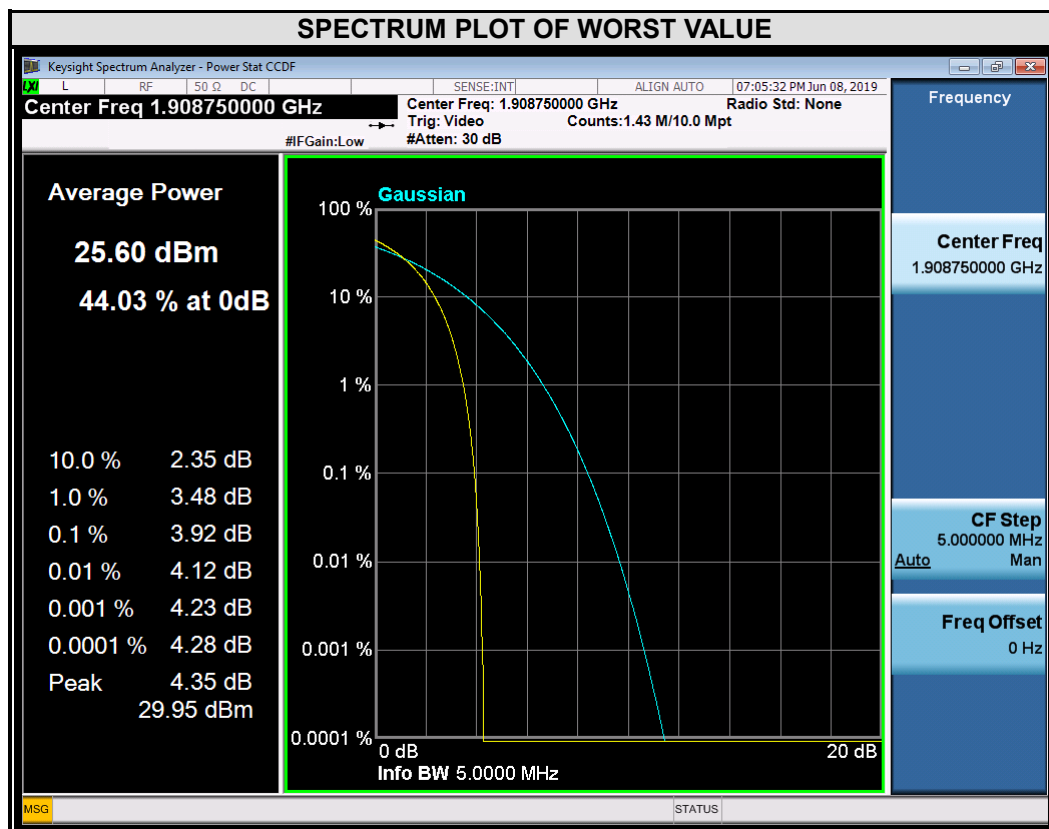




BUREAU VERITAS

Test Report No.: RF190517W003-4

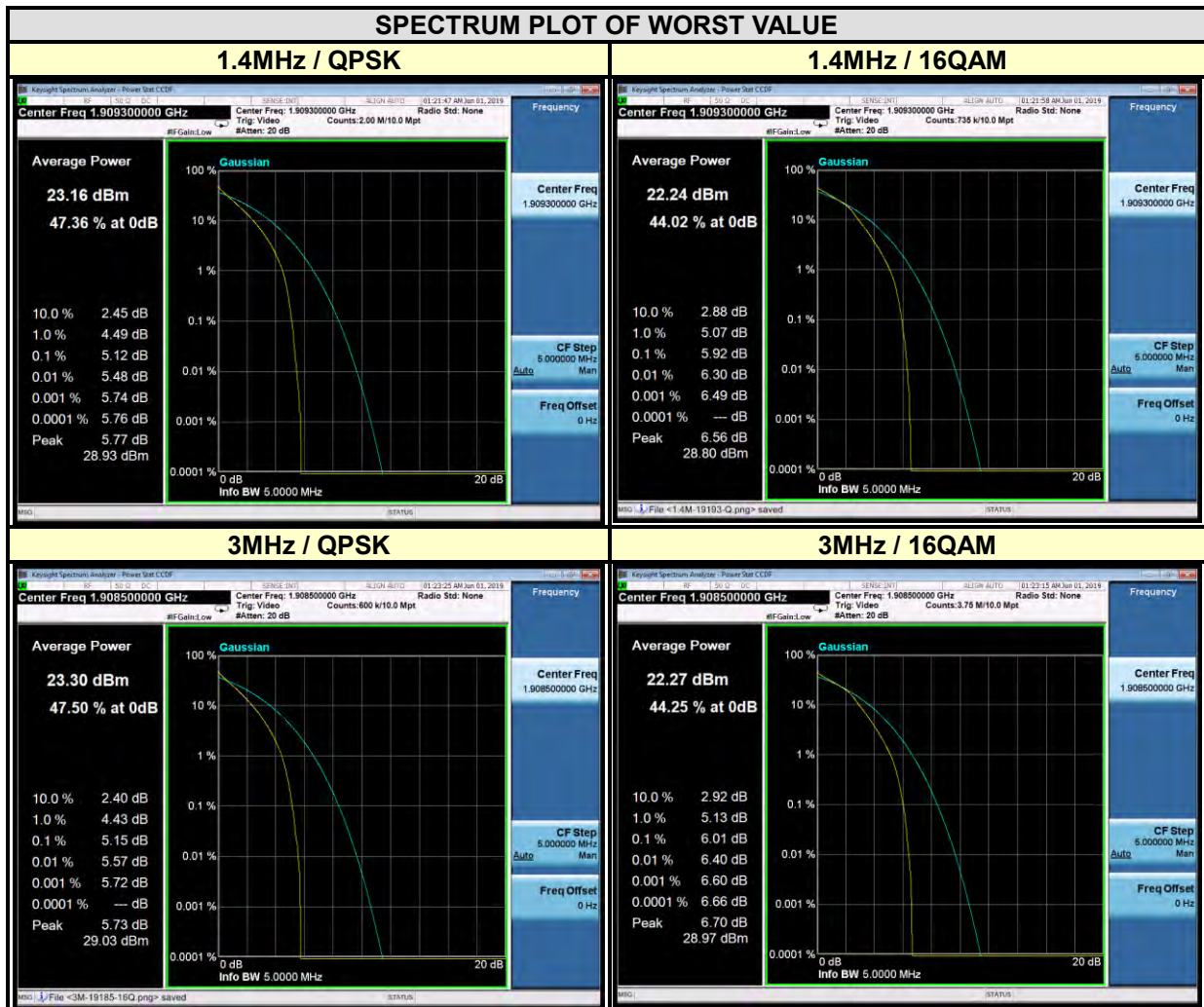
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
1175	1908.8	3.92





**LTE BAND 2**

CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18607	1850.7	4.65	5.55	18615	1851.5	5.07	5.71
18900	1880	4.91	5.85	18900	1880	4.99	5.78
19193	1909.3	5.12	5.92	19185	1908.5	5.15	6.01



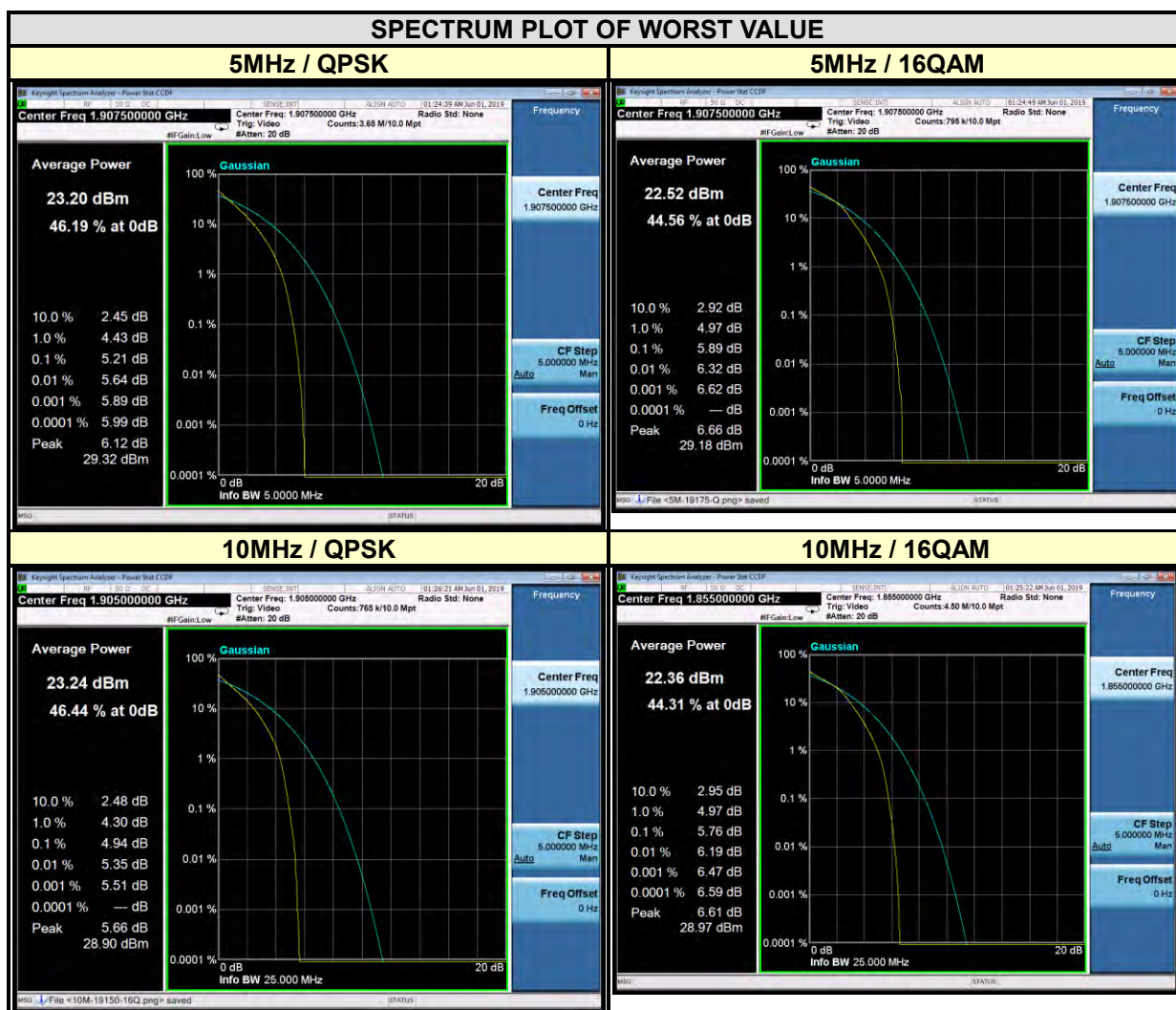




**BUREAU  
VERITAS**

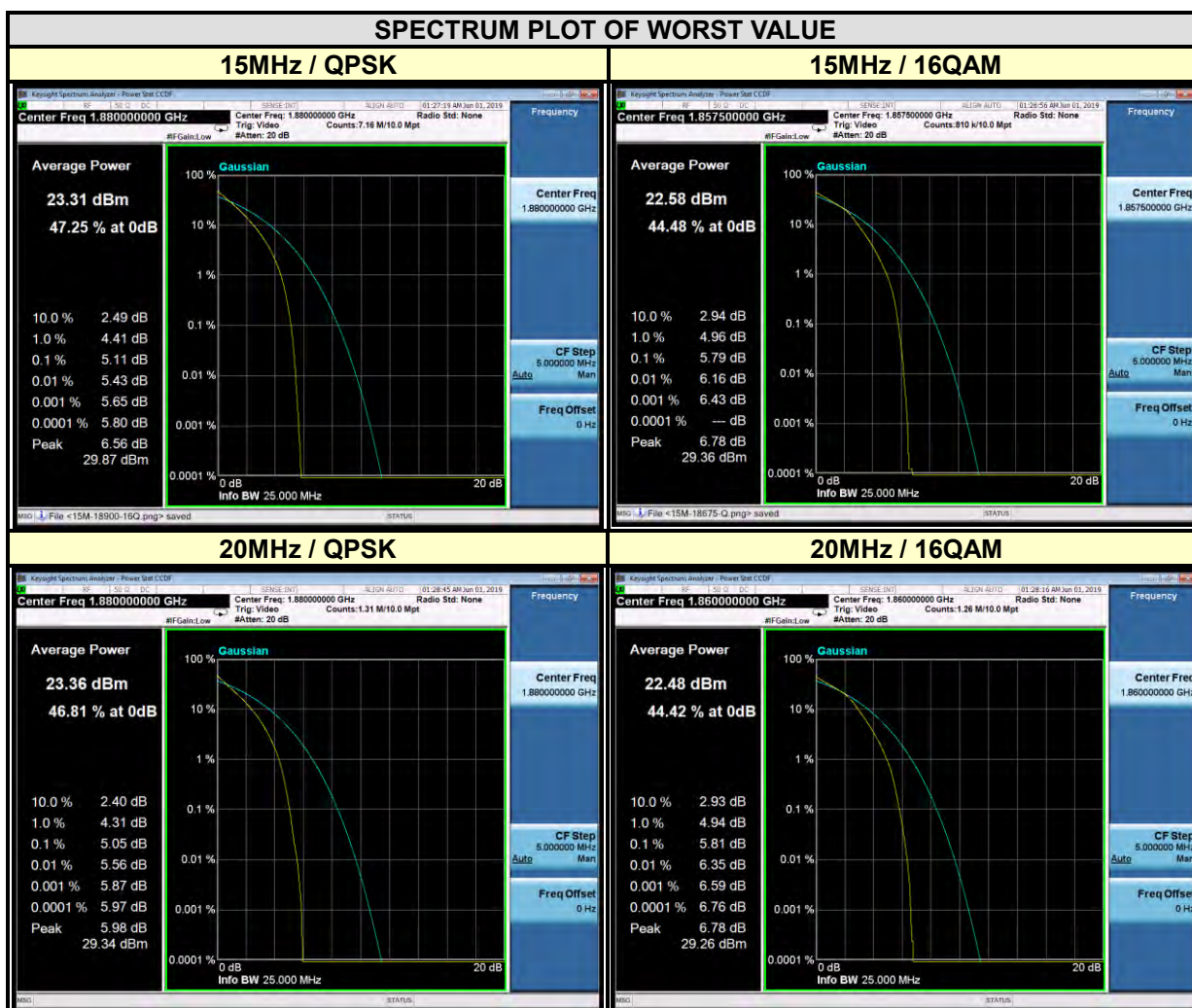
Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18625	1852.5	5.02	5.68	18650	1855	4.93	5.76
18900	1880	5.09	5.83	18900	1880	4.88	5.62
19175	1907.5	5.21	5.89	19150	1905	4.94	5.73





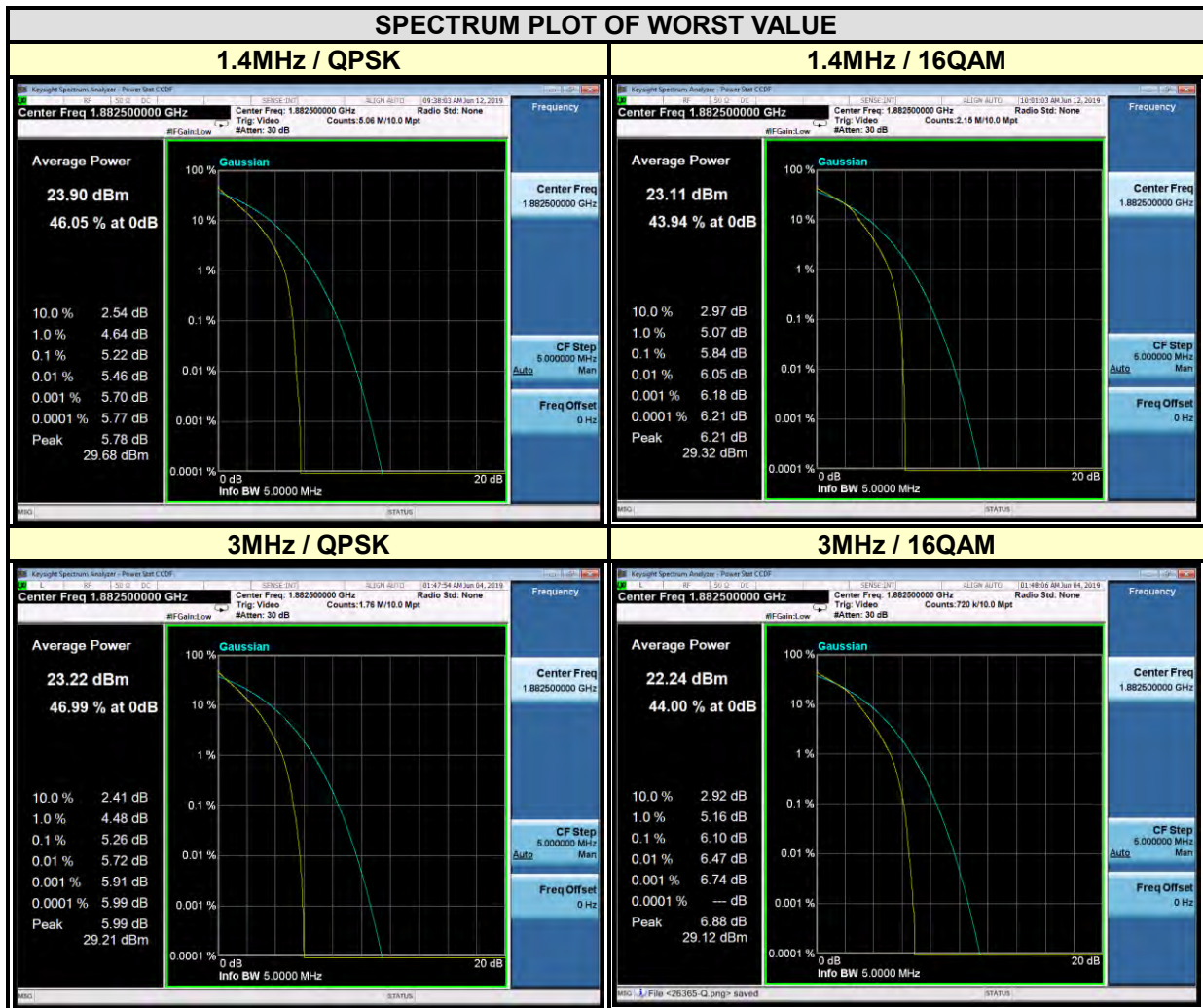
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	4.99	5.79	18700	1860	4.98	5.81
18900	1880	5.11	5.74	18900	1880	5.05	5.67
19125	1902.5	4.93	5.43	19100	1900	4.96	5.75





**LTE BAND 25**

CHANNEL BANDWIDTH: 1.4MHz				CHANNEL BANDWIDTH: 3MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
26047	1850.7	4.40	5.39	26055	1851.5	5.22	6.04
26365	1882.5	5.22	5.84	26365	1882.5	5.26	6.10
26683	1914.3	4.85	5.66	26675	1913.5	5.26	5.91

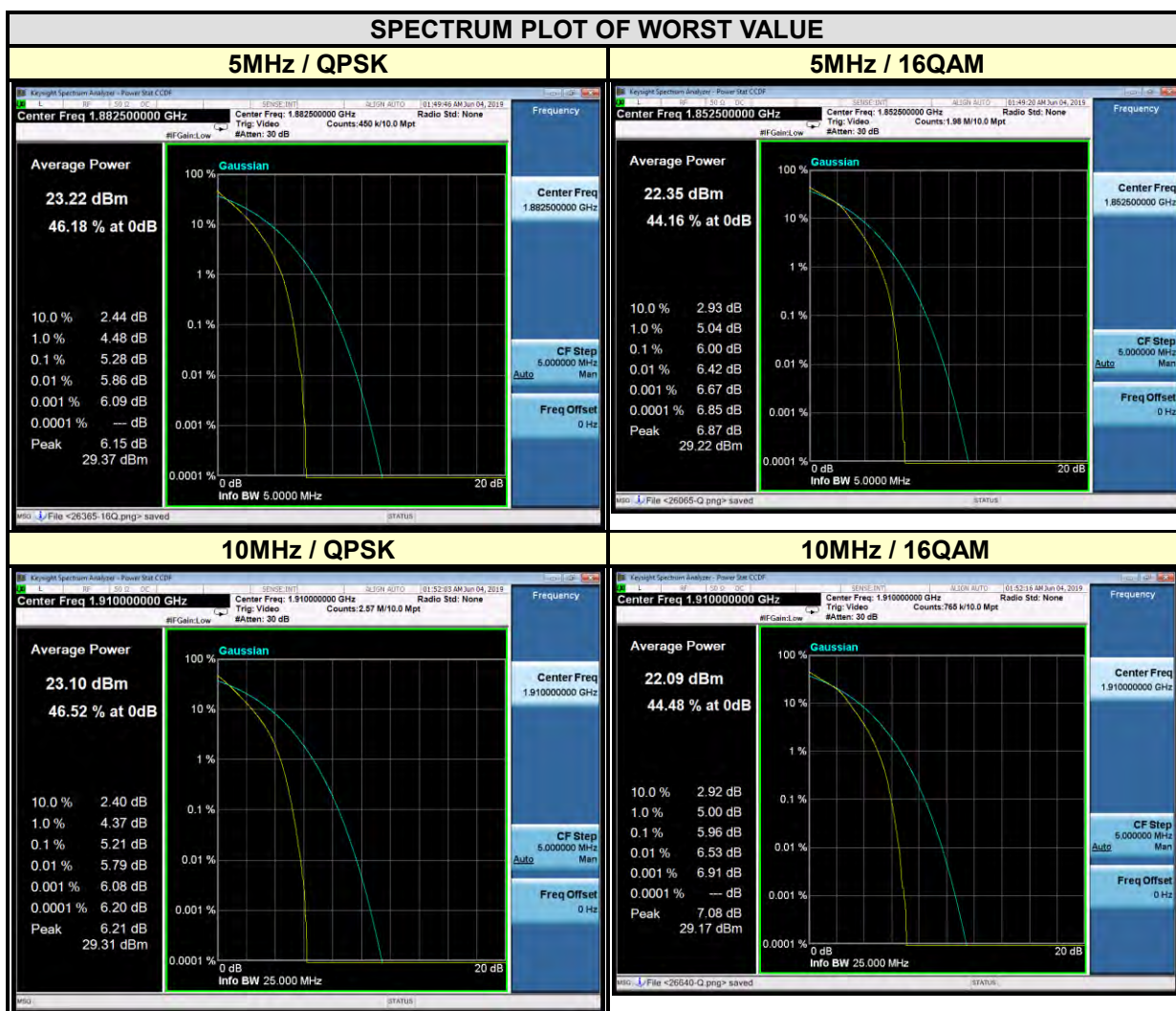




**BUREAU  
VERITAS**

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 5MHz				CHANNEL BANDWIDTH: 10MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
26065	1852.5	5.23	6.00	26090	1855	5.19	5.89
26365	1882.5	5.28	5.96	26365	1882.5	5.11	5.96
26665	1912.5	5.15	5.89	26640	1910	5.21	5.96

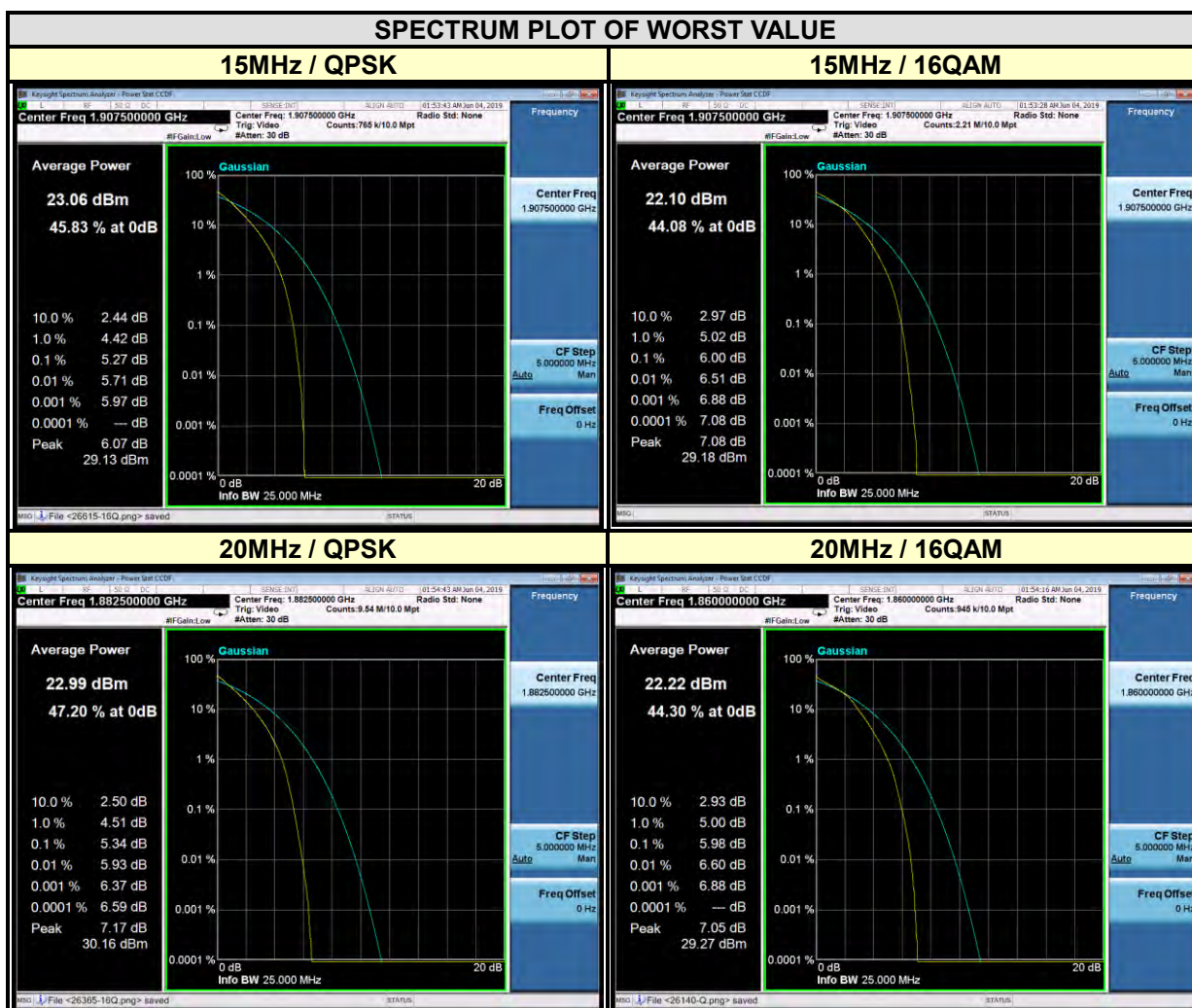




**BUREAU VERITAS**

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
26115	1857.5	5.23	5.98	26140	1860	5.17	5.98
26365	1882.5	5.22	5.91	26365	1882.5	5.34	5.96
26615	1907.5	5.27	6.00	26590	1905	5.13	5.95





**BUREAU VERITAS** Test Report No.: RF190517W003-4

## 4 INFORMATION ON THE TESTING LABORATORIES

We, BV 7LAYERS COMMUNICATIONS TECHNOLOGY (SHENZHEN) CO. LTD., were founded in 2015 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:

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**Web Site:** [www.adt.com.tw](http://www.adt.com.tw)

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



**BUREAU** Test Report No.: RF190517W003-4  
**VERITAS**

## **5 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No any modifications are made to the EUT by the lab during the test.

**---END---**