

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 -13dBm .

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.

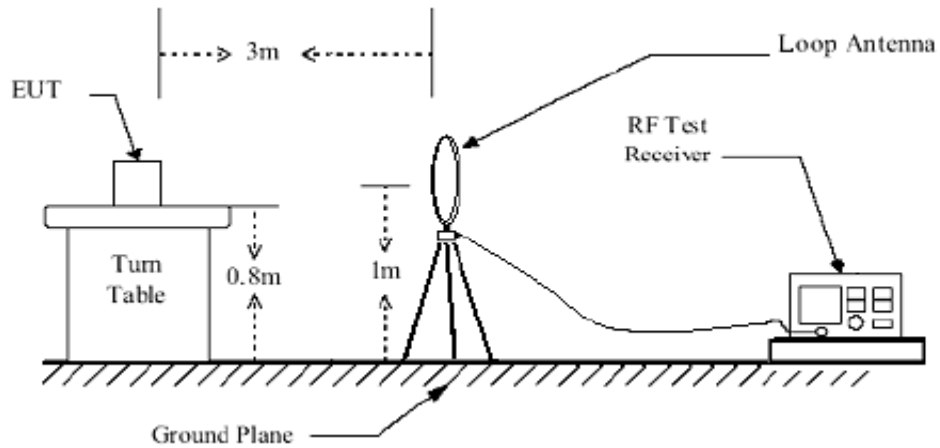
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

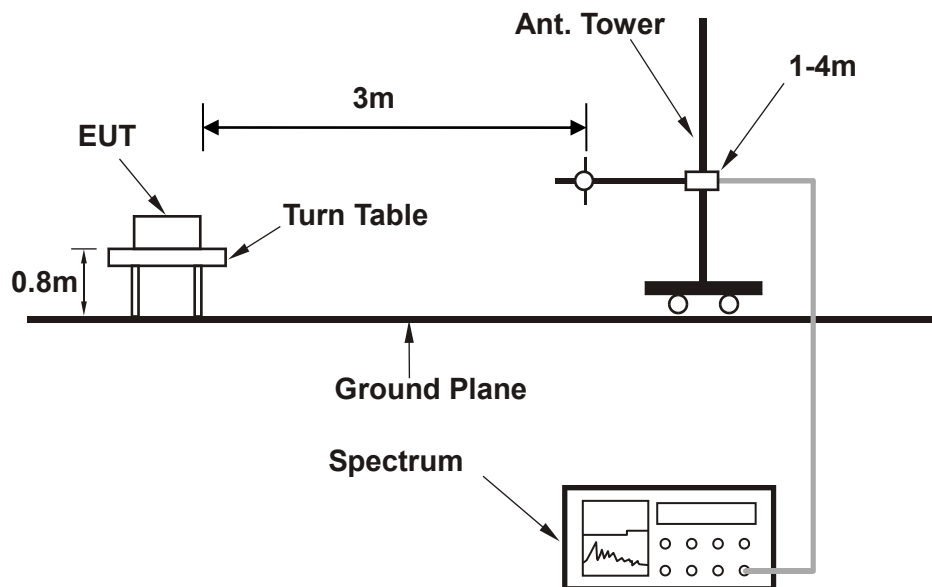


3.6.4 TEST SETUP

<Below 30MHz>

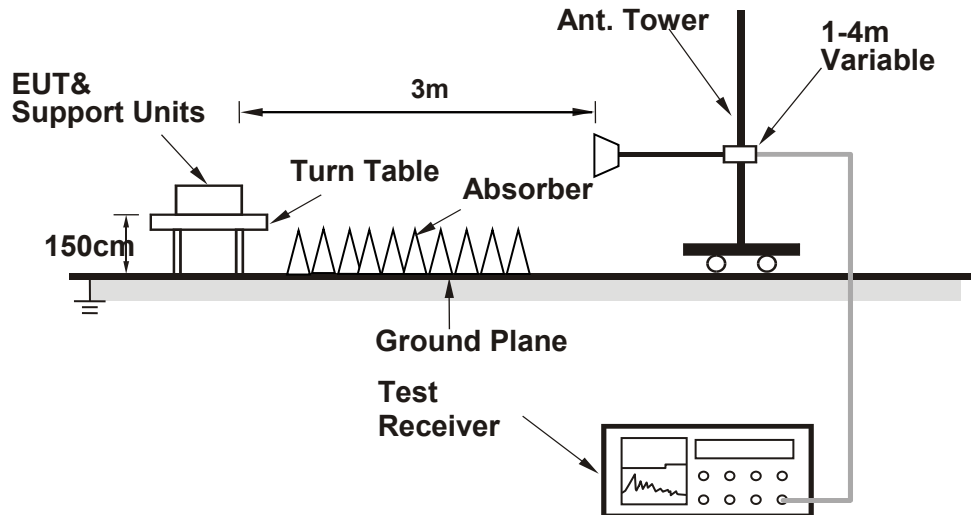


< Frequency Range 30MHz~1GHz >





< 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.

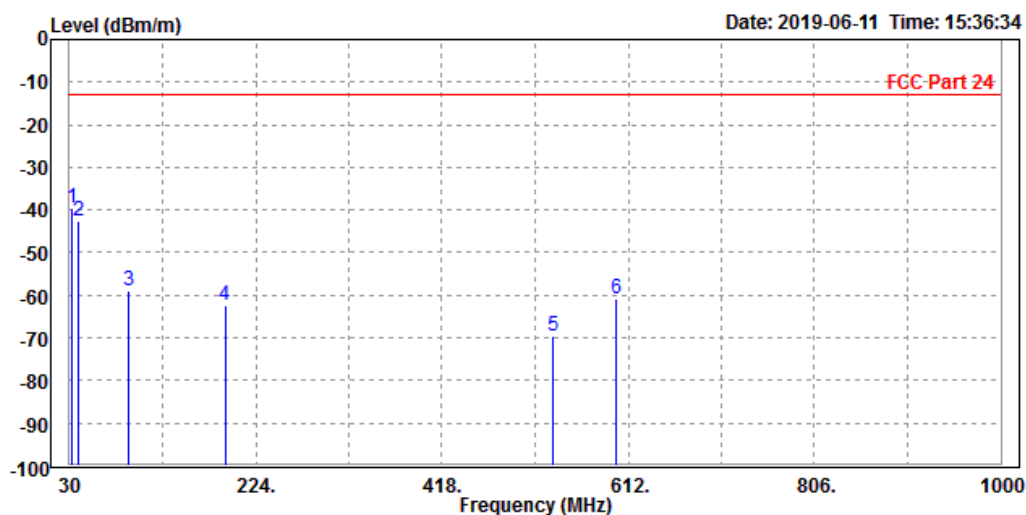
30 MHz – 1GHz data:

LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 26365	FREQUENCY RANGE	Below 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	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



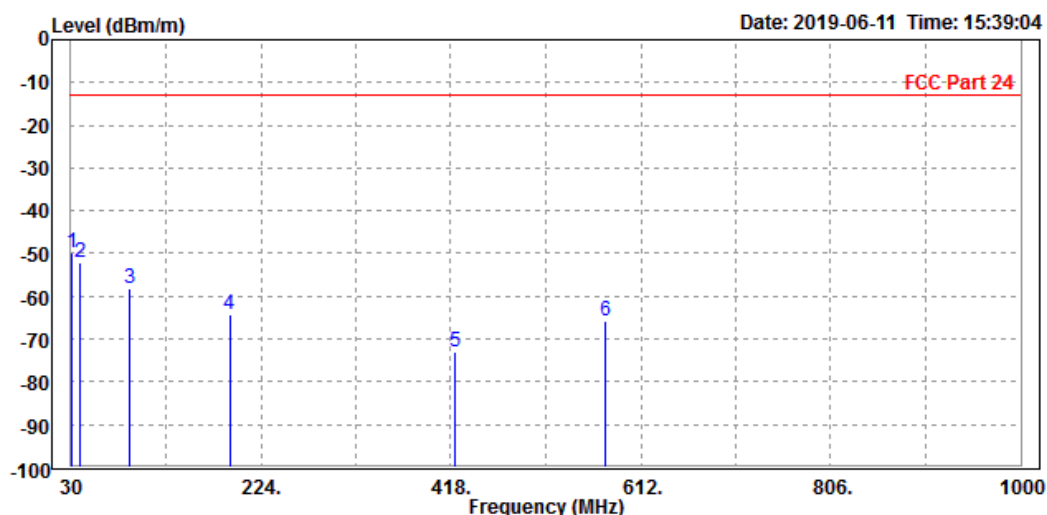


**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

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

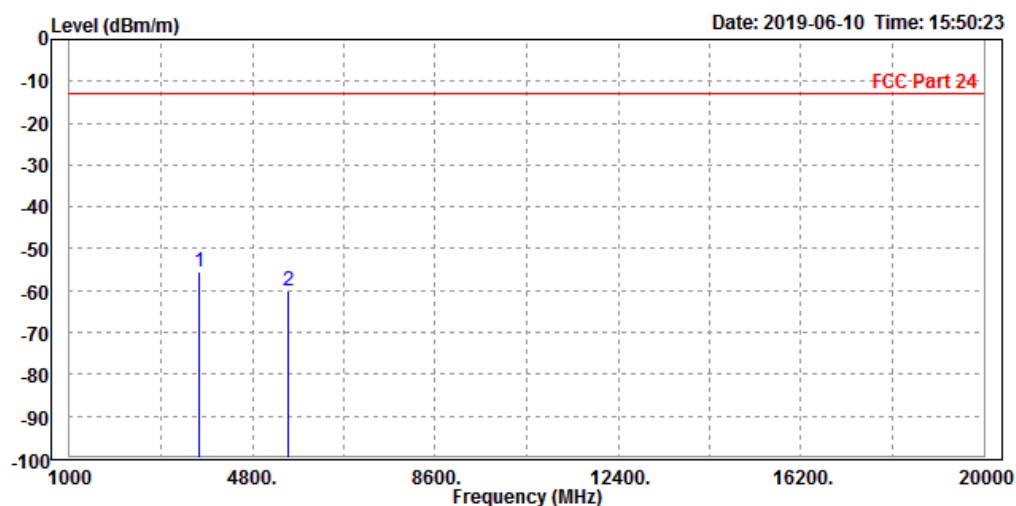
Note: For higher frequency, the emission is too low to be detected.

CDMA BC1

CH 25

MODE	TX channel 25	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony		
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	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



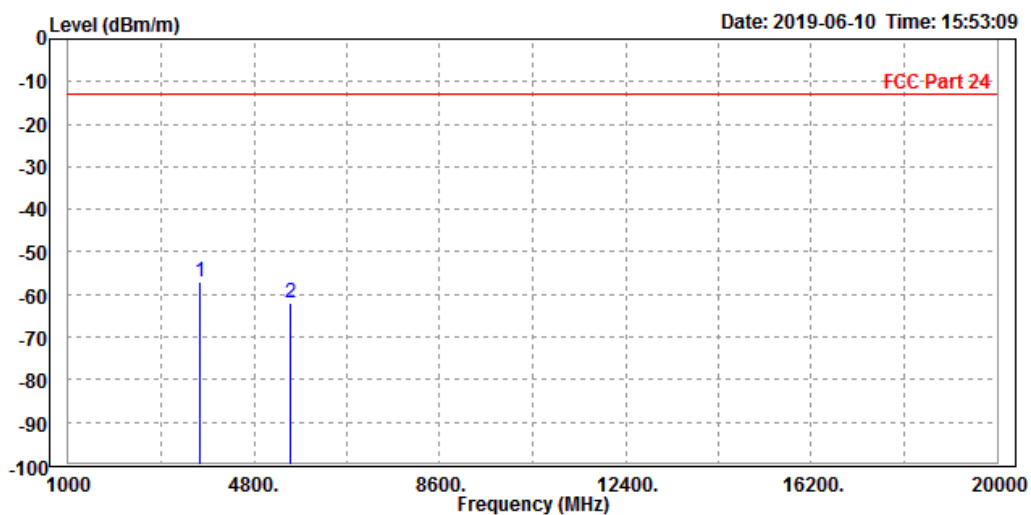


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VERITAS**

Test Report No.: RF190517W003-4

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

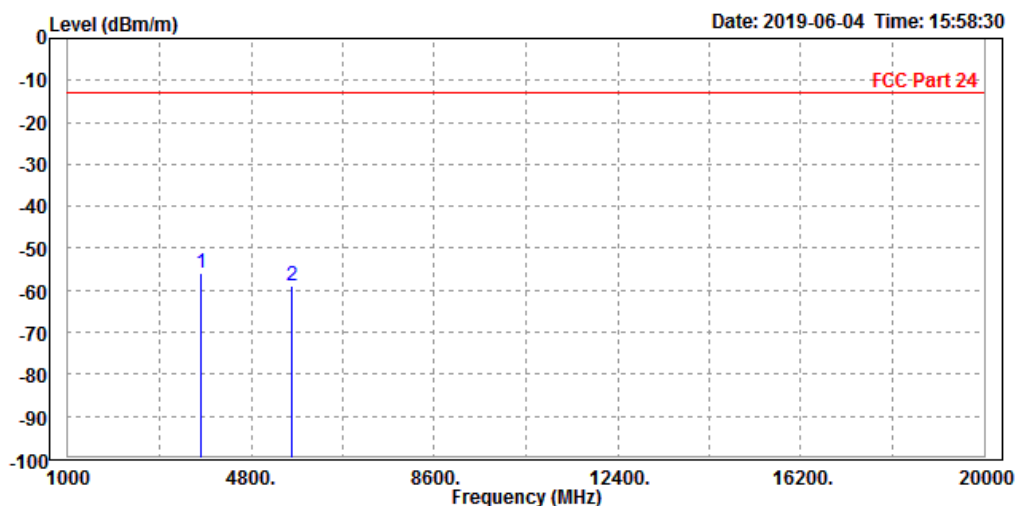




CH 600

MODE	TX channel 600	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Tony		
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 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



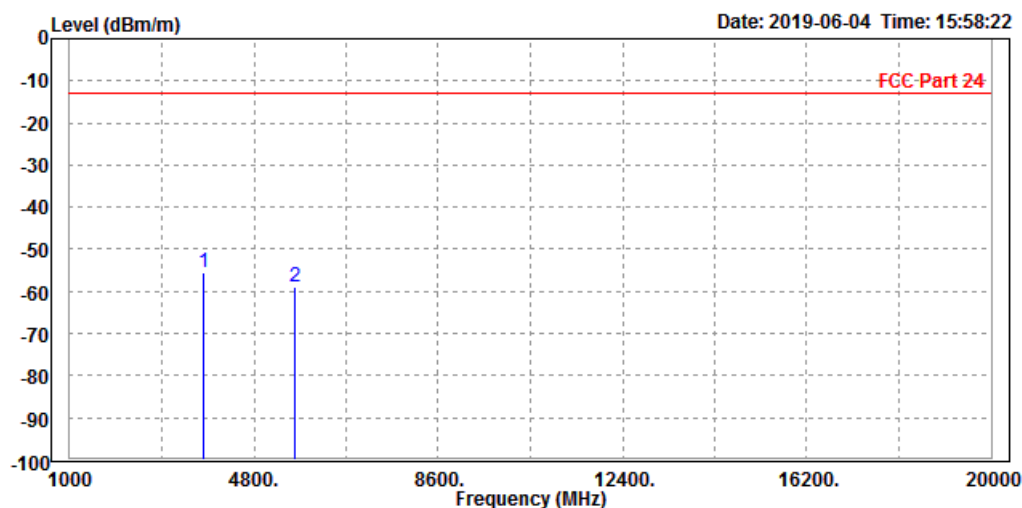


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Test Report No.: RF190517W003-4

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

			Read	Limit	Over			
	Freq	Level	Level	Line	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





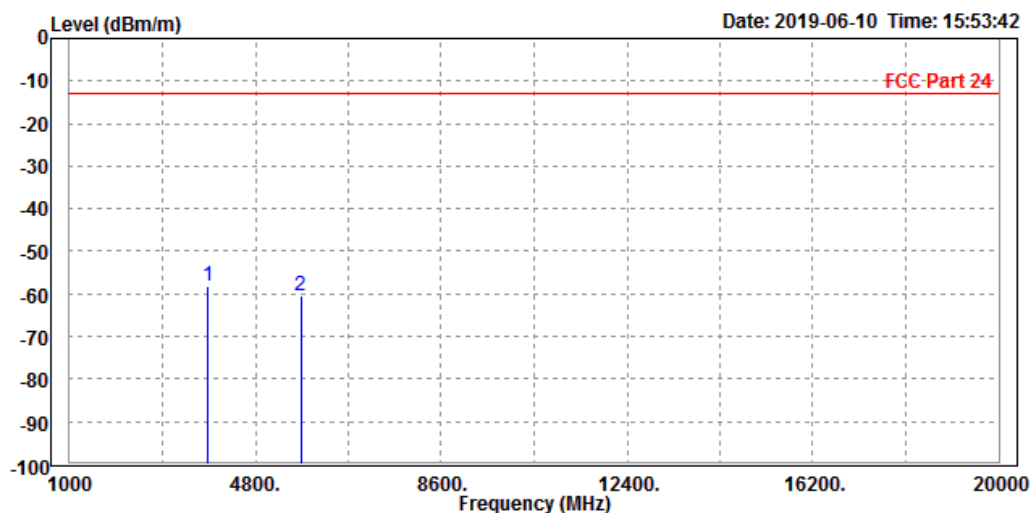
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Test Report No.: RF190517W003-4

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		
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 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





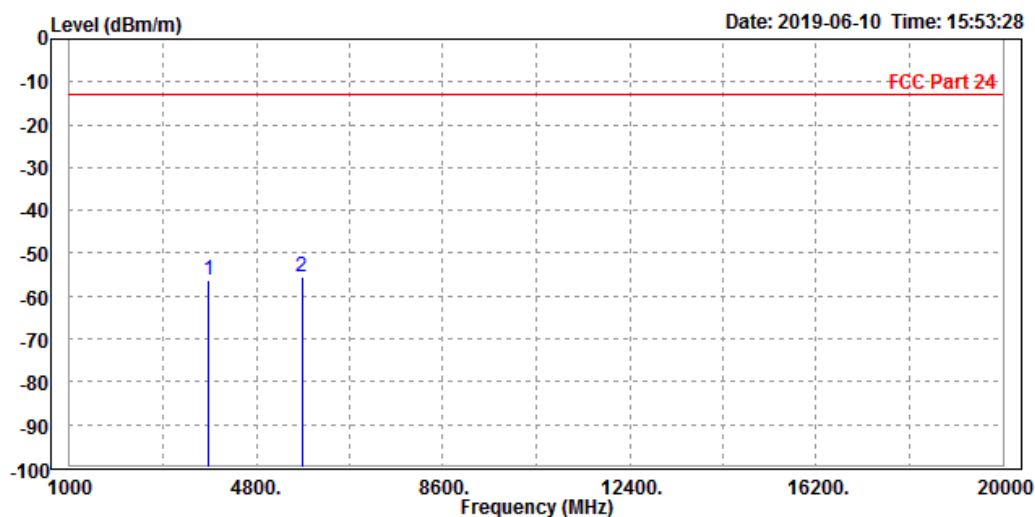
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Test Report No.: RF190517W003-4

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	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





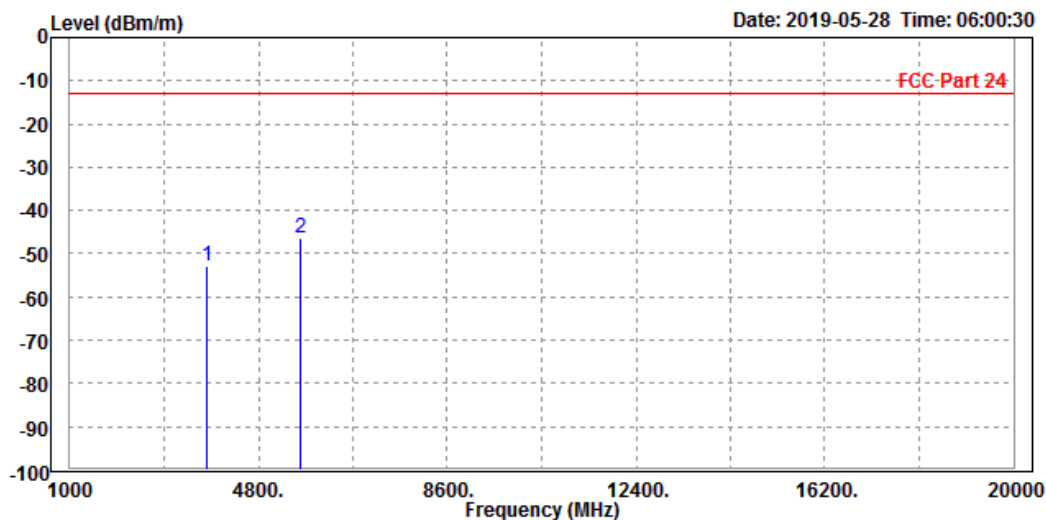
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LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / 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	-52.74	-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



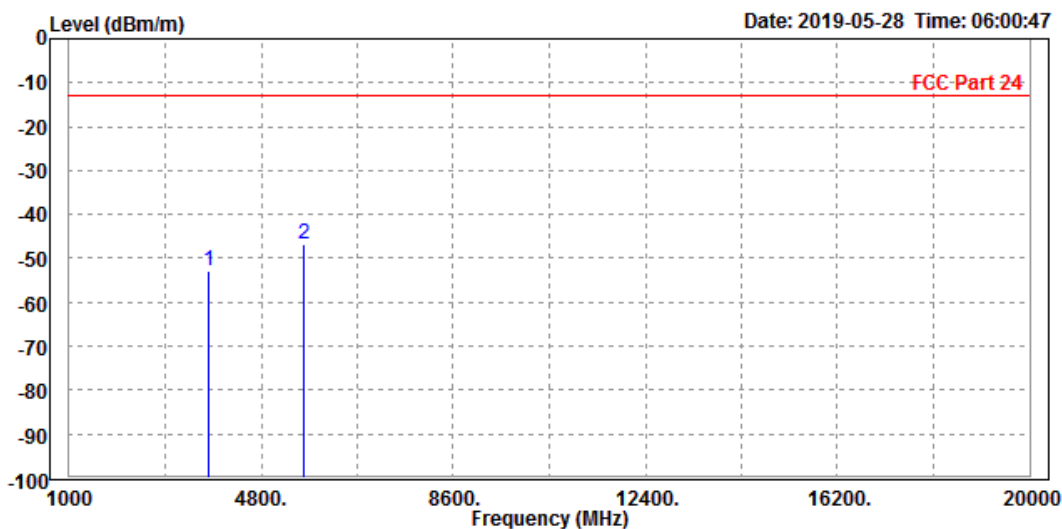


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Test Report No.: RF190517W003-4

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-52.90	-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





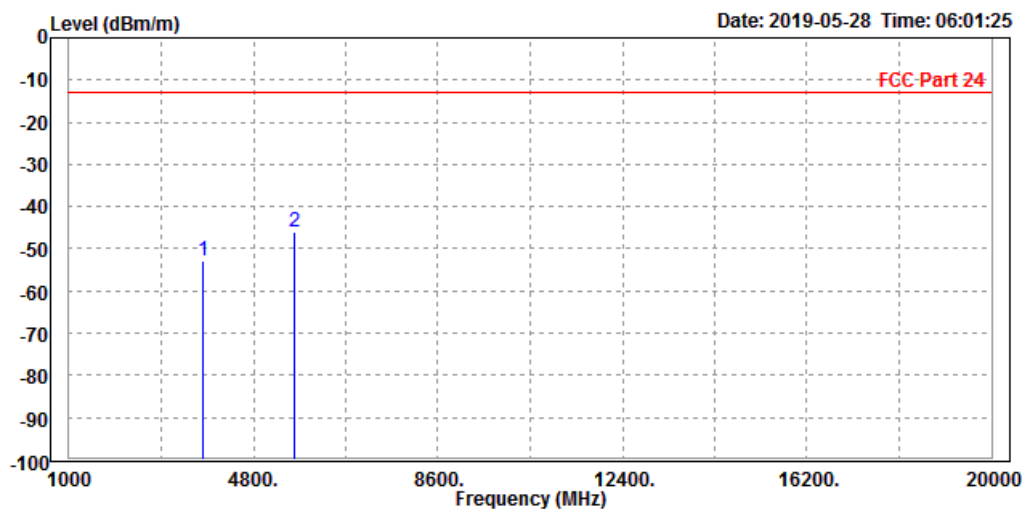
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Test Report No.: RF190517W003-4

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



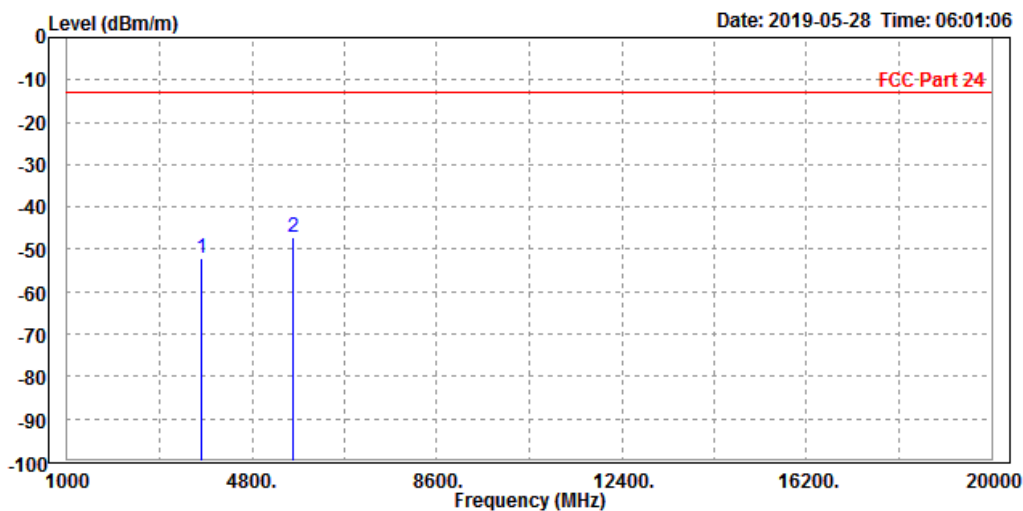


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Test Report No.: RF190517W003-4

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-52.17	-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





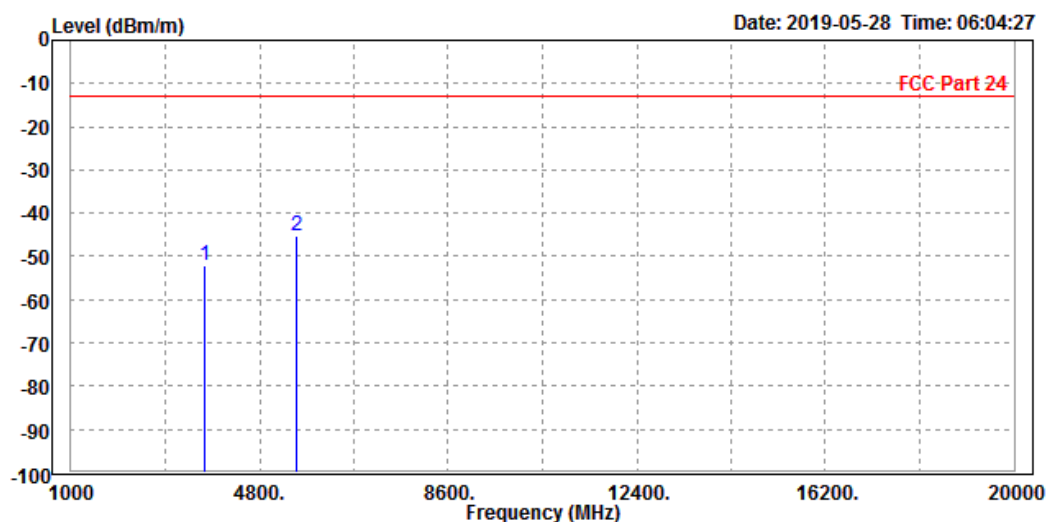
BUREAU VERITAS Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 5MHz / QPSK

CH18625

MODE	TX channel 18625	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	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



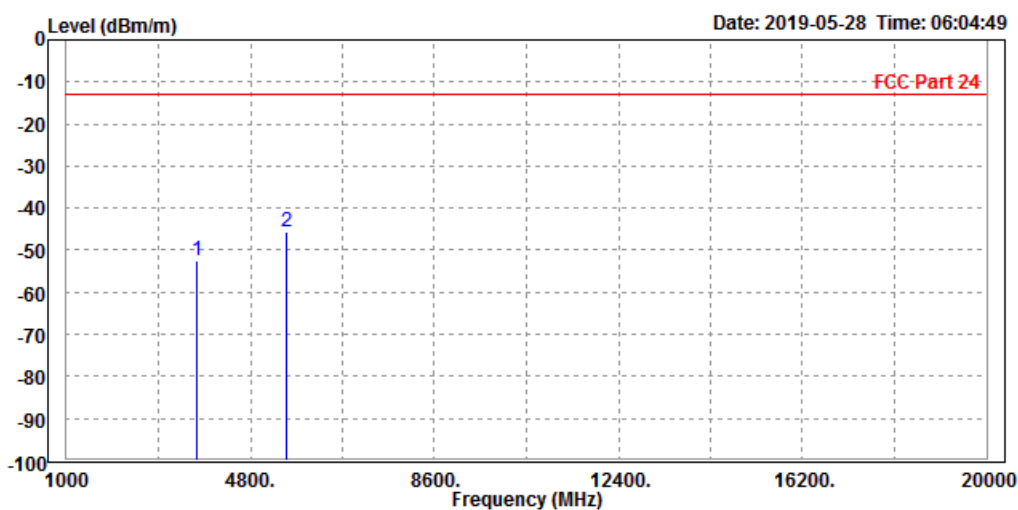


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Test Report No.: RF190517W003-4

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





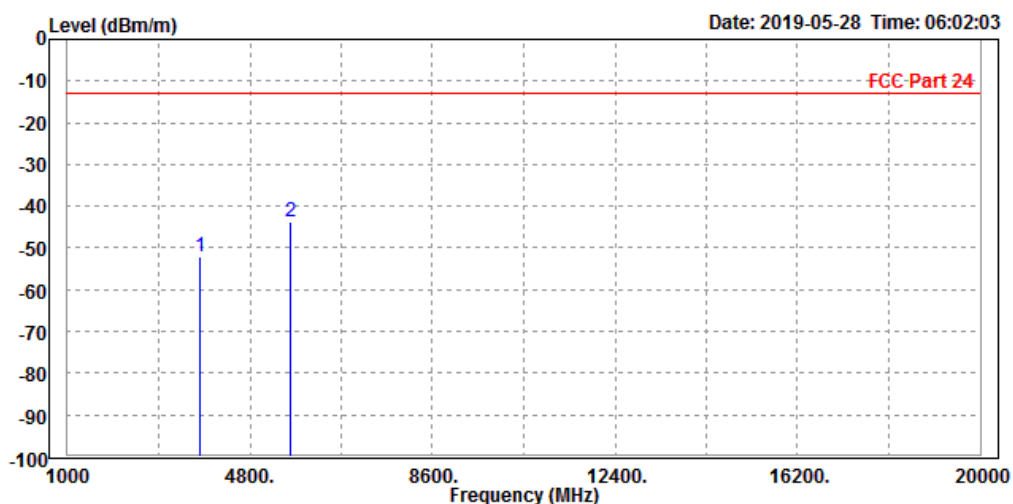
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Test Report No.: RF190517W003-4

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		
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	-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



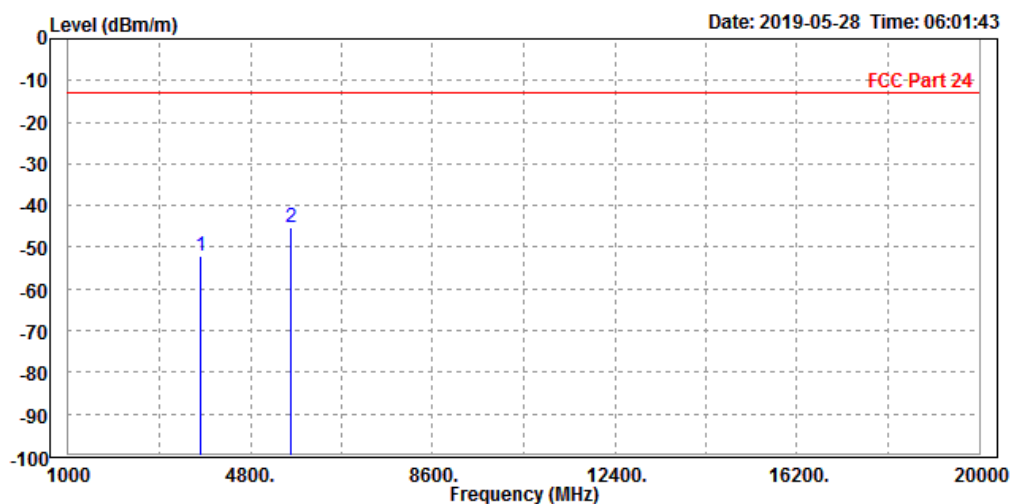


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VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-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

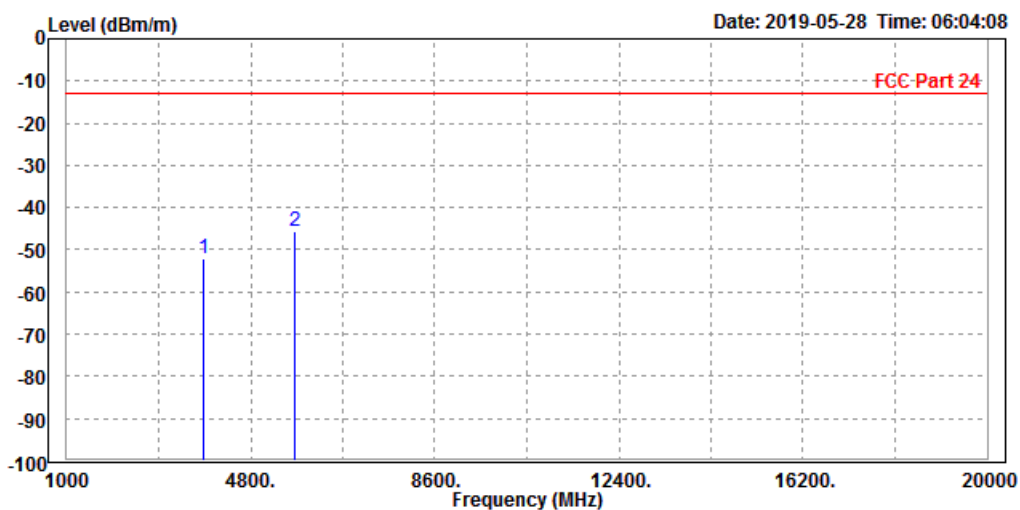




CH19175

MODE	TX channel 19175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V from adapter
TESTED BY	Star Le		
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	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



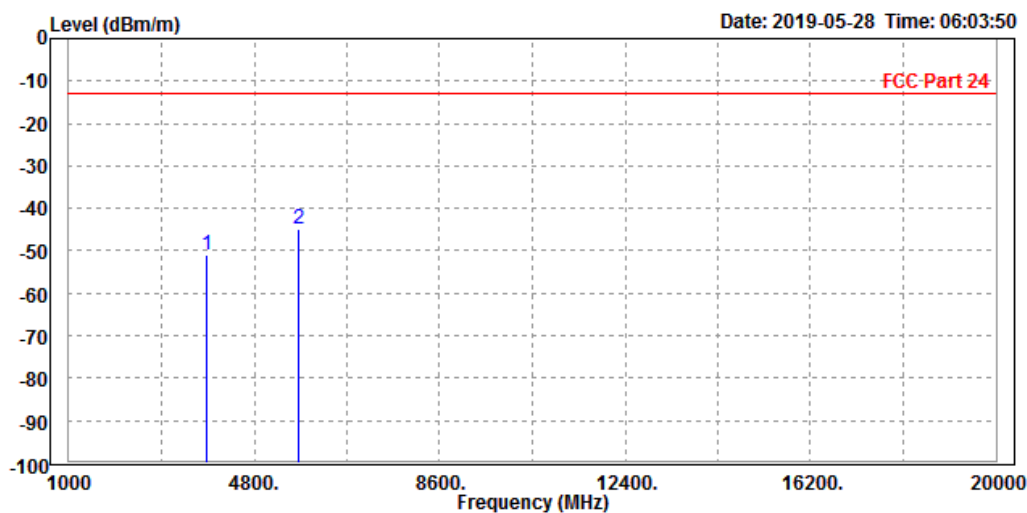


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Test Report No.: RF190517W003-4

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





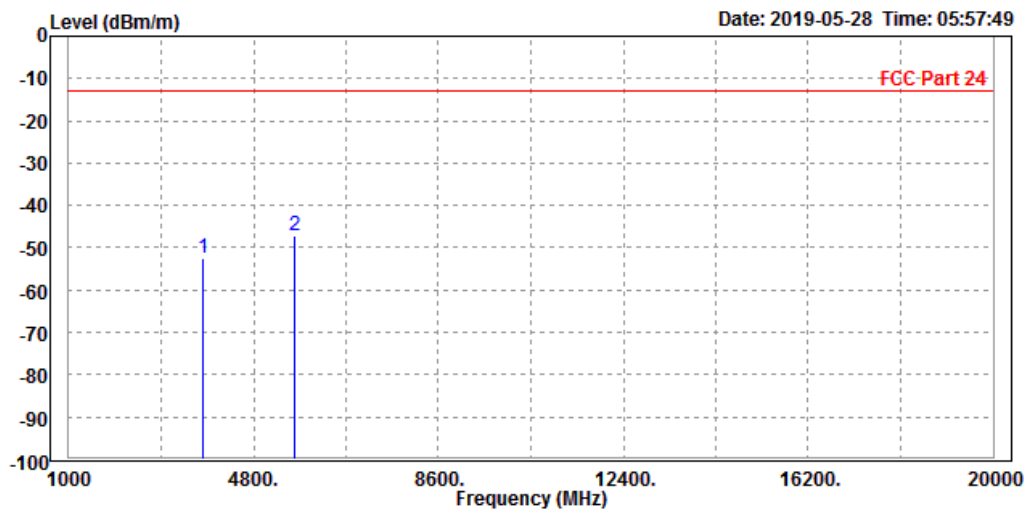
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Test Report No.: RF190517W003-4

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		
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	-52.40	-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



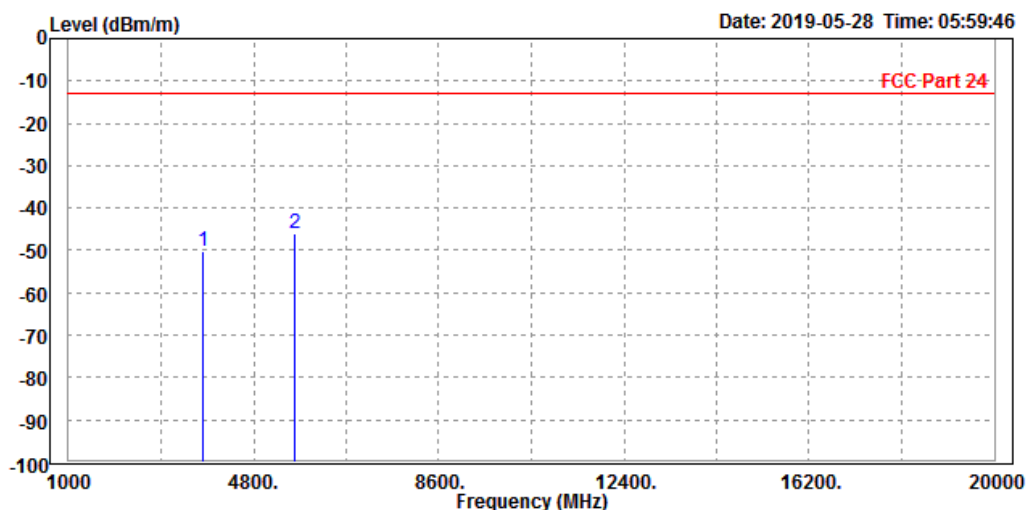


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VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-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





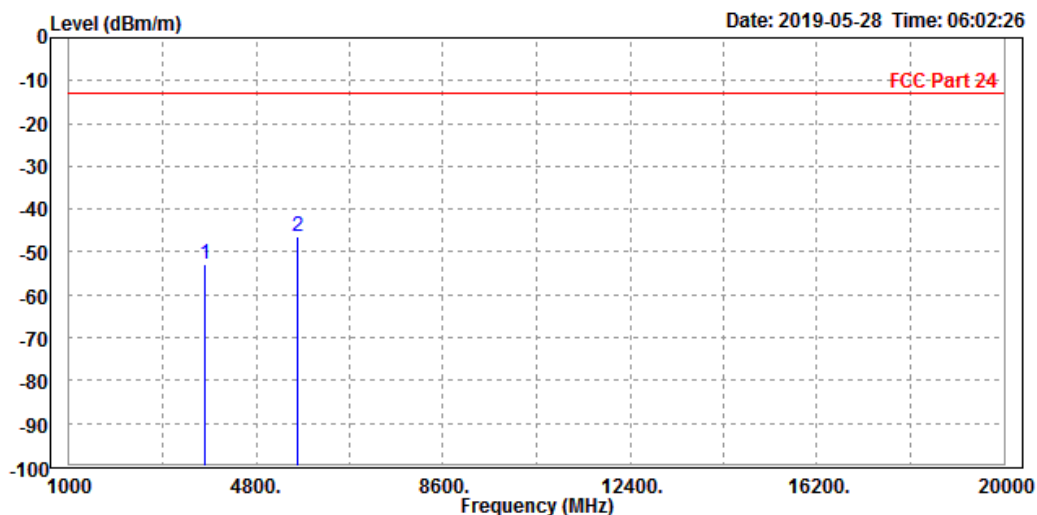
**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

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		
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	-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



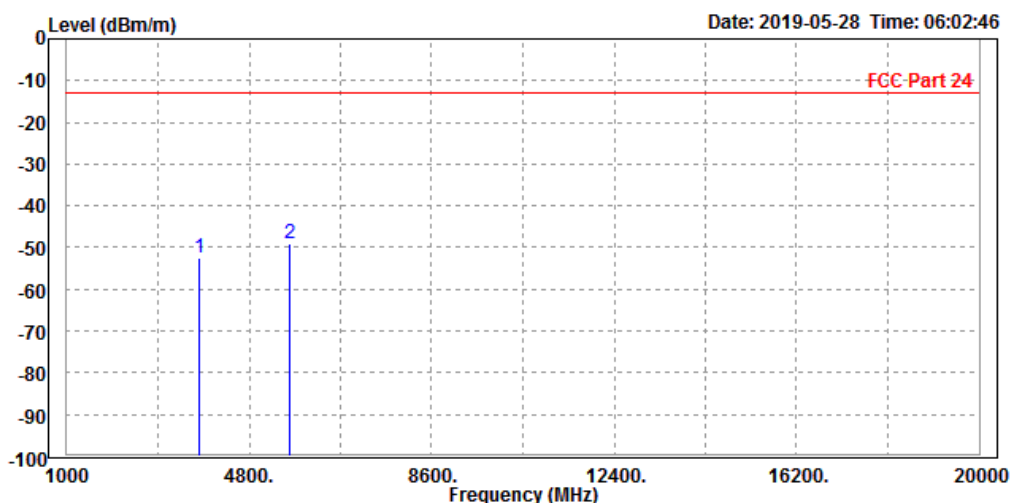


**BUREAU
VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-52.36	-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





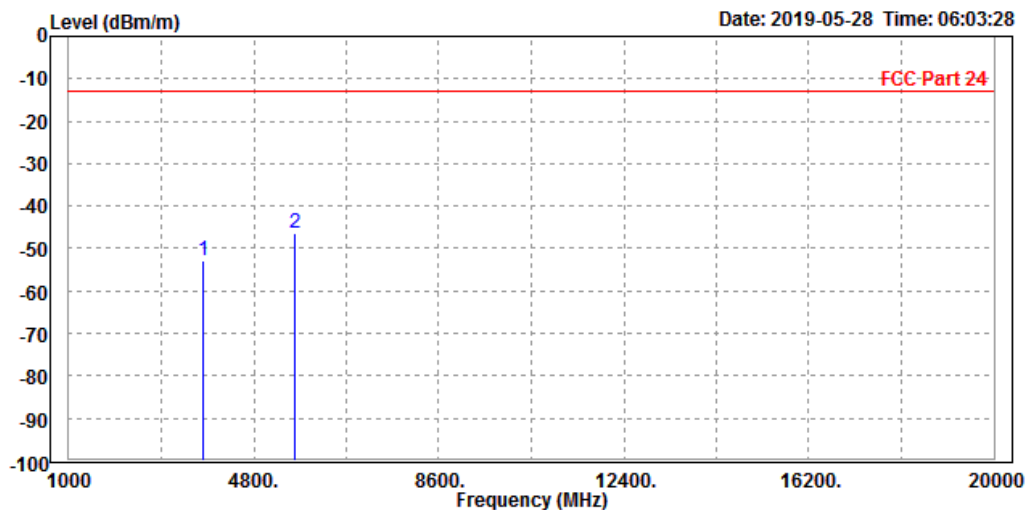
**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 20MHz / QPSK

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	-52.74	-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



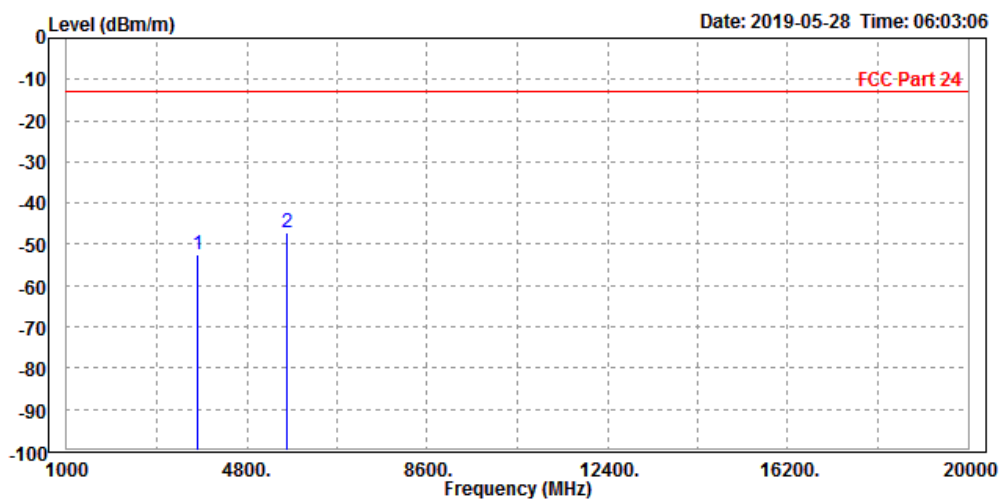


**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

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: VERTICAL 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	-52.39	-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





BUREAU VERITAS Test Report No.: RF190517W003-4

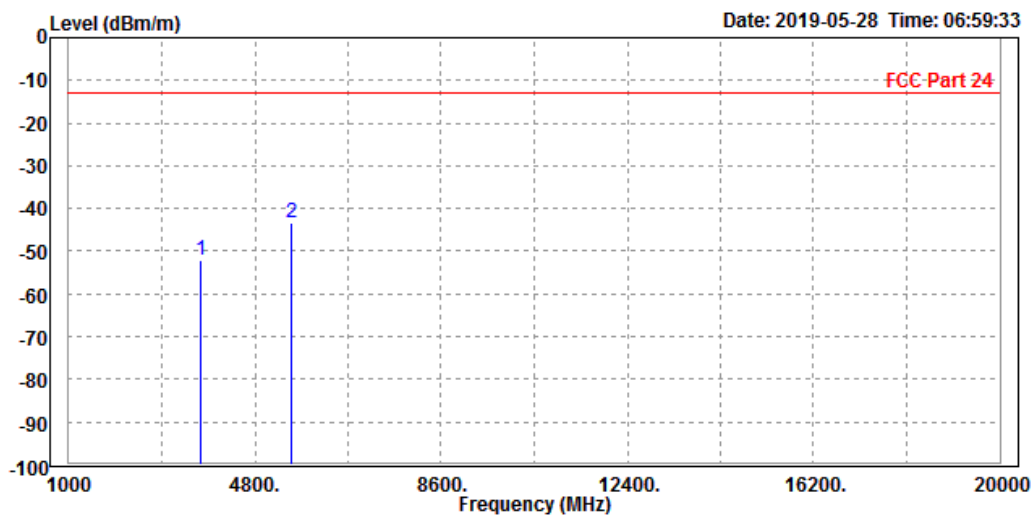
LTE Band 25

CHANNEL BANDWIDTH: 1.4MHz / QPSK

CH26047

MODE	TX channel 26047	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	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



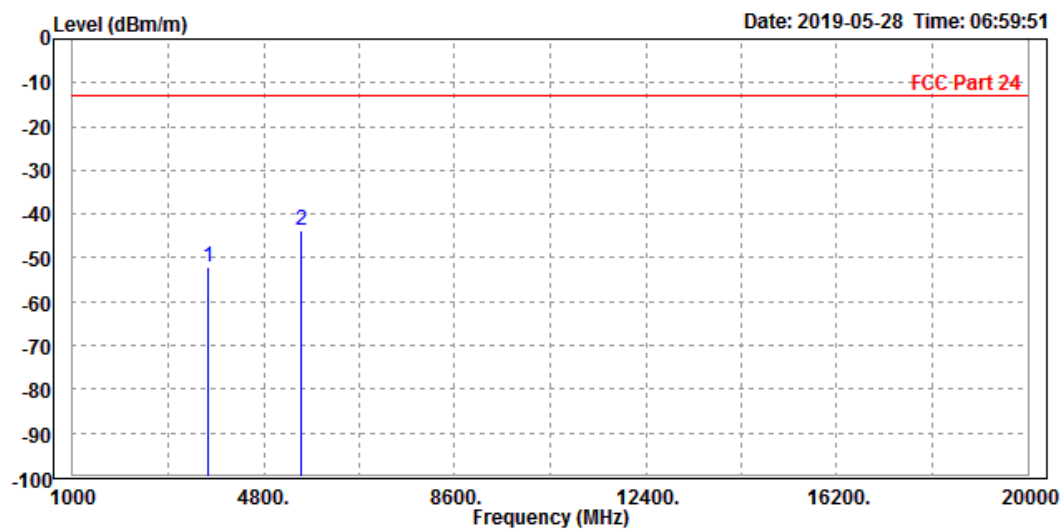


**BUREAU
VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	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





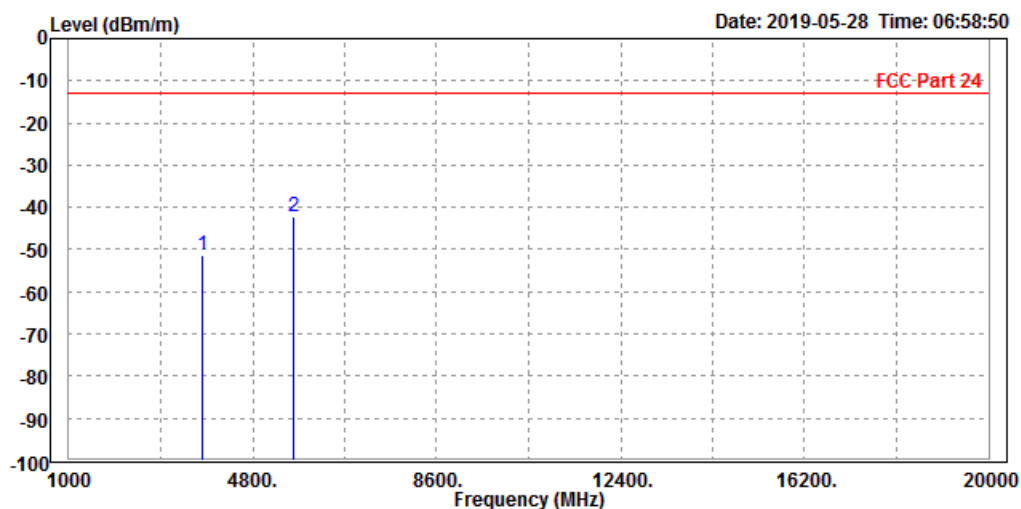
**BUREAU
VERITAS**

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		
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	-51.50	-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



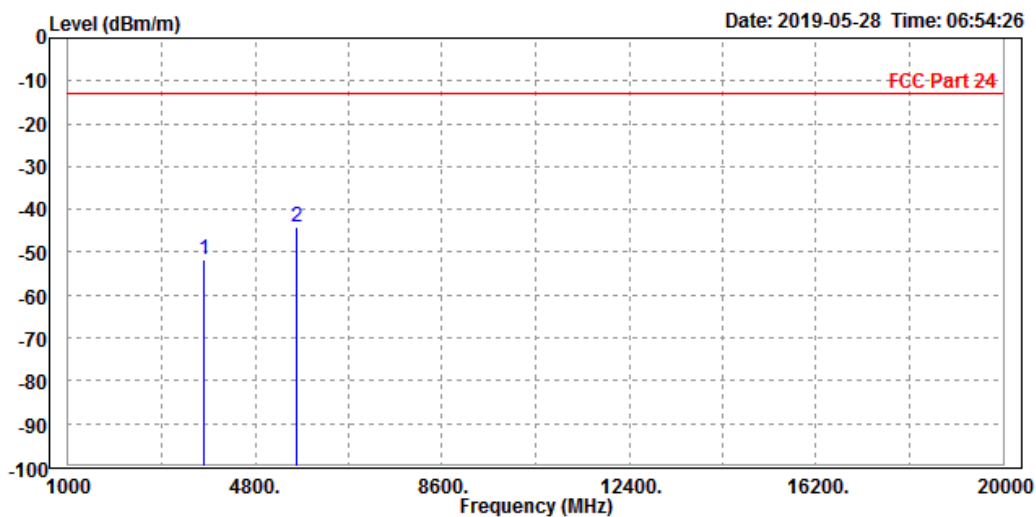


**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

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: VERTICAL 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	-51.82	-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





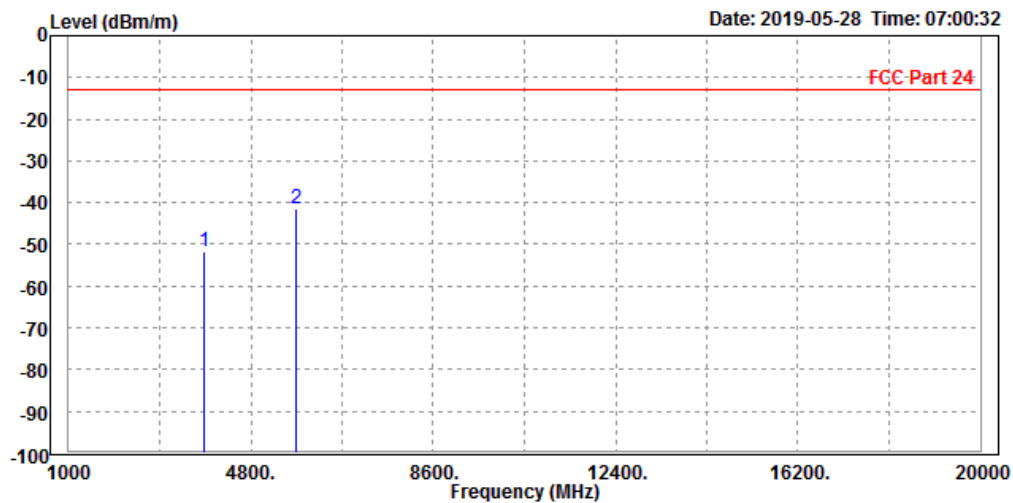
**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

CH26683

MODE	TX channel 26683	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	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



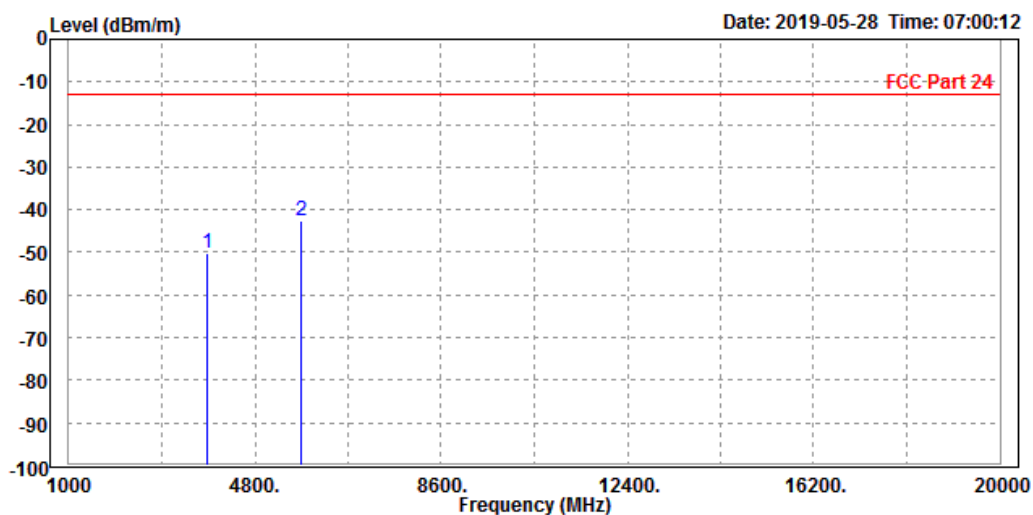


**BUREAU
VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	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





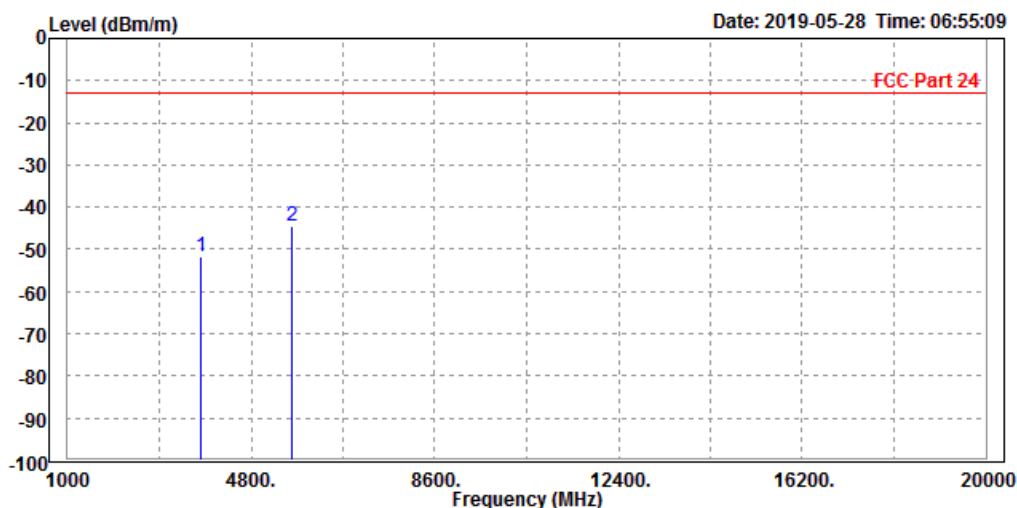
**BUREAU
VERITAS**

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



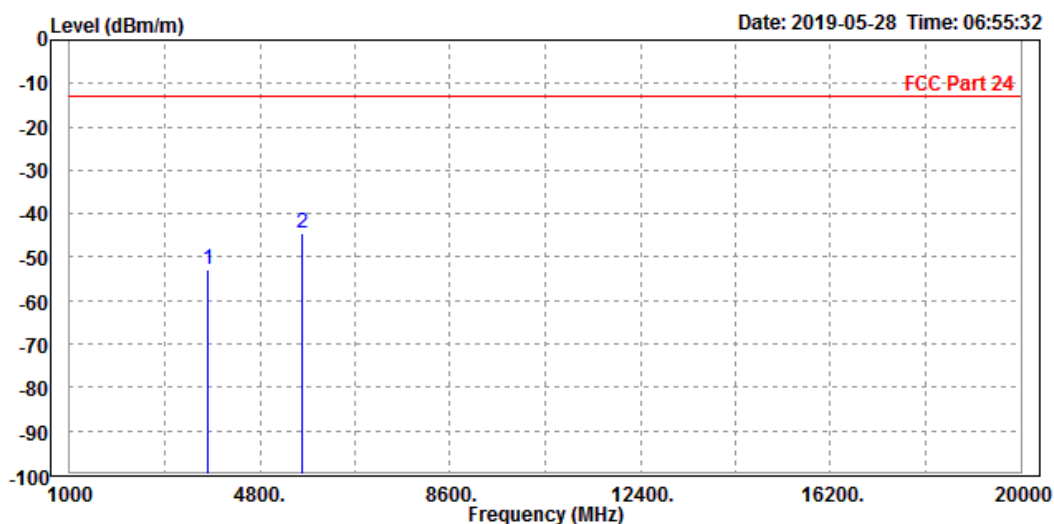


BUREAU
VERITAS

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-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





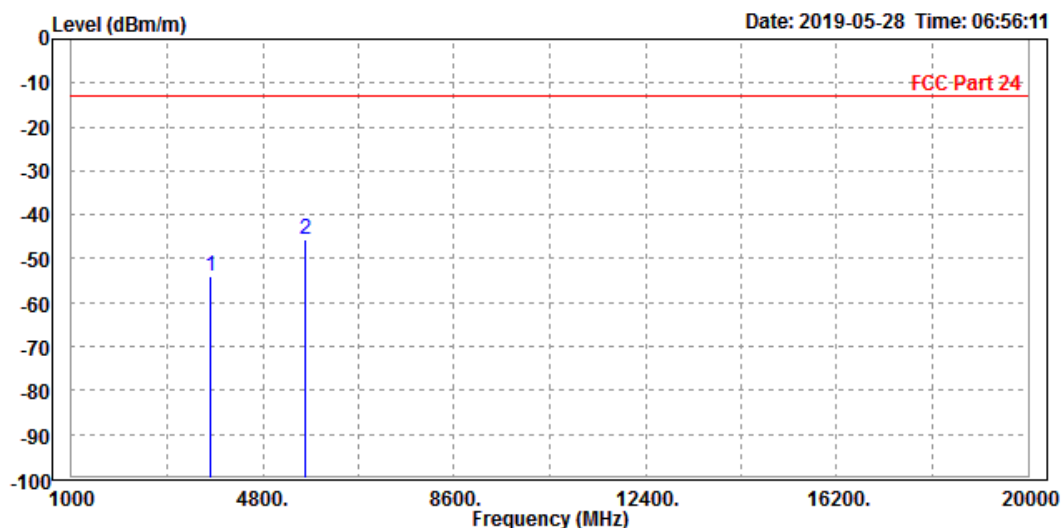
**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

CHANNEL BANDWIDTH: 5MHz / 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	-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



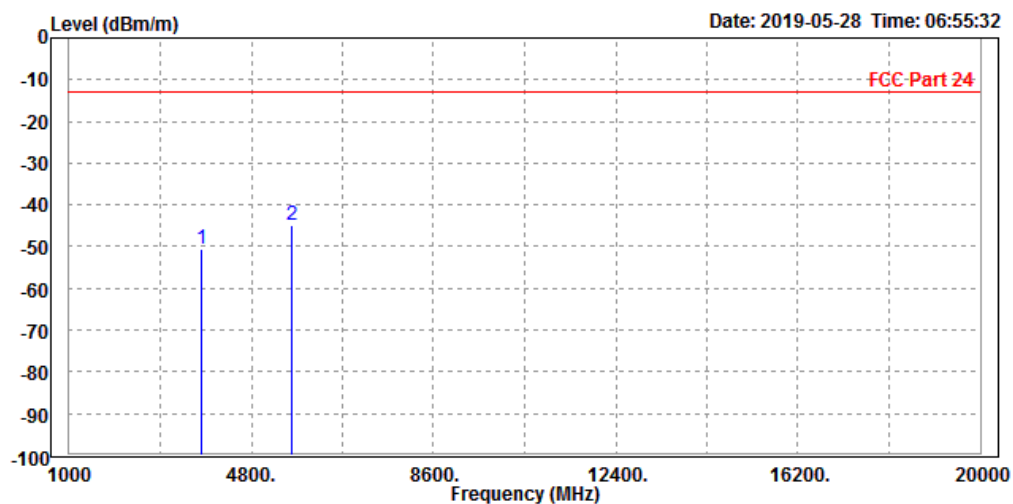


**BUREAU
VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-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





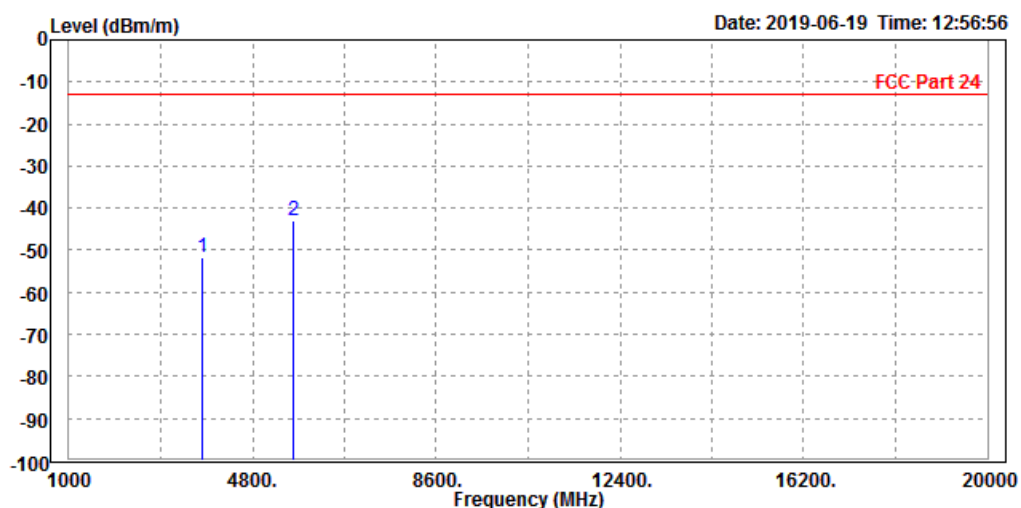
**BUREAU
VERITAS**

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



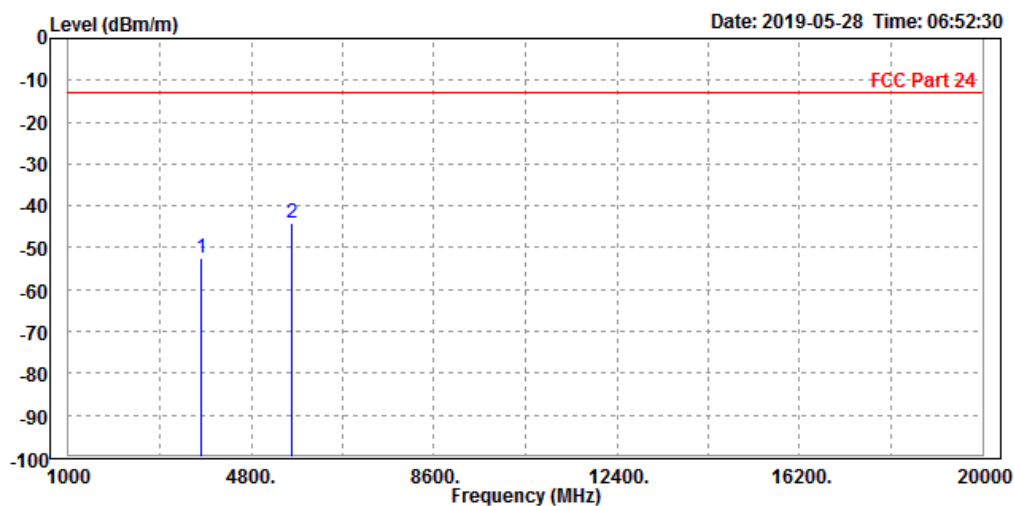


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VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-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

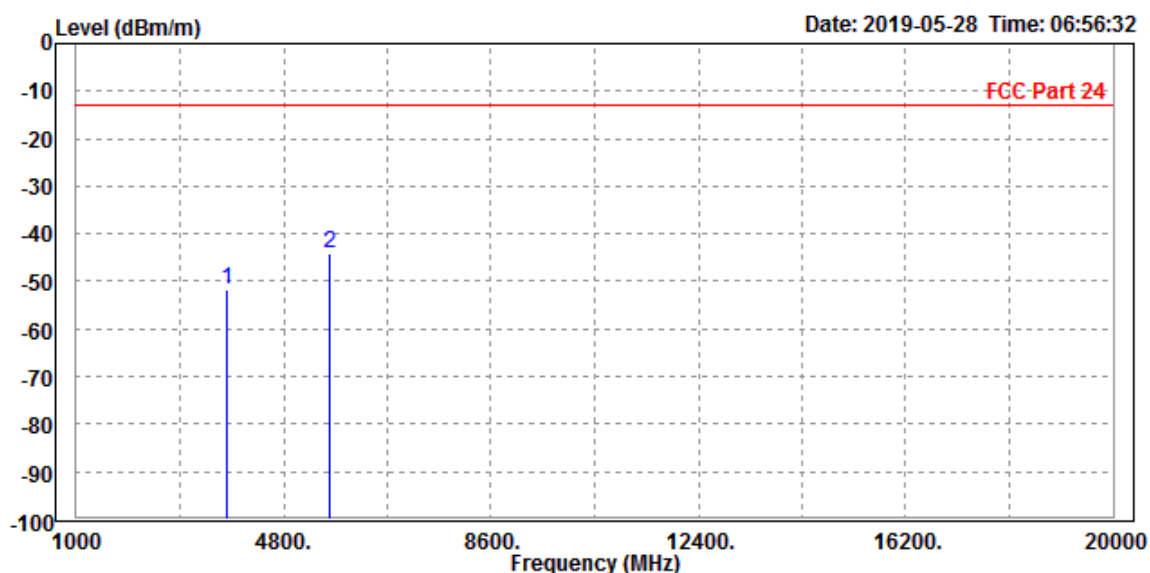




CHANNEL BANDWIDTH: 15MHz / QPSK

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	-51.89	-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



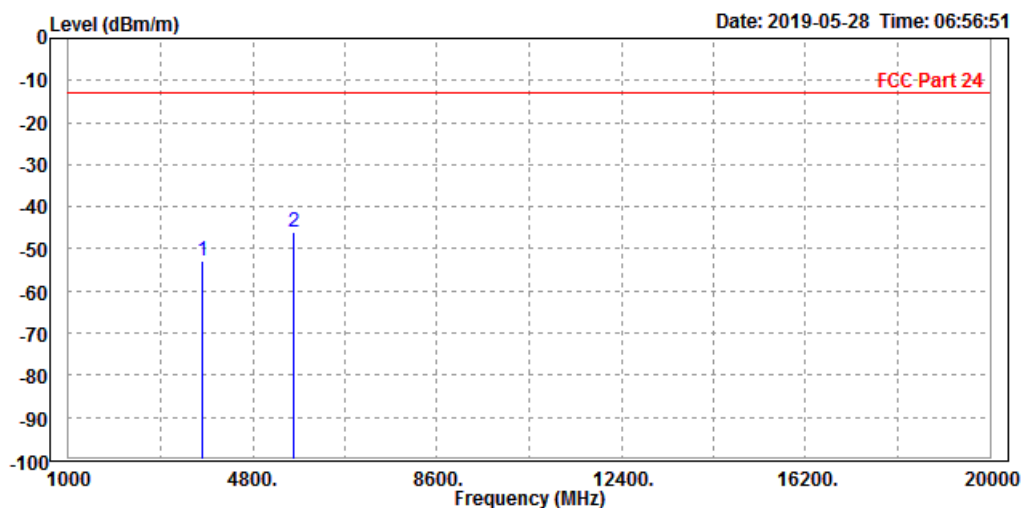


**BUREAU
VERITAS**

Test Report No.: RF190517W003-4

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: VERTICAL 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	-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





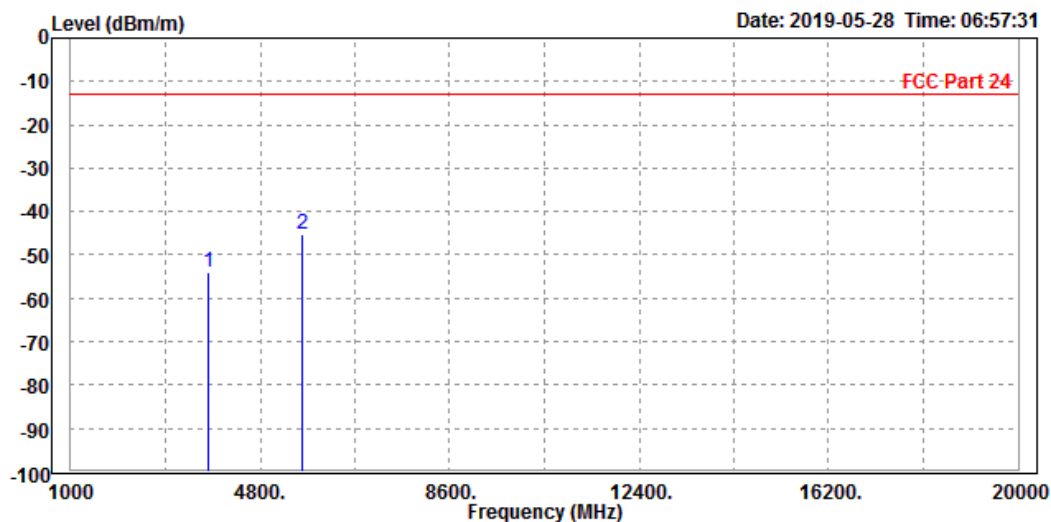
**BUREAU
VERITAS**

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



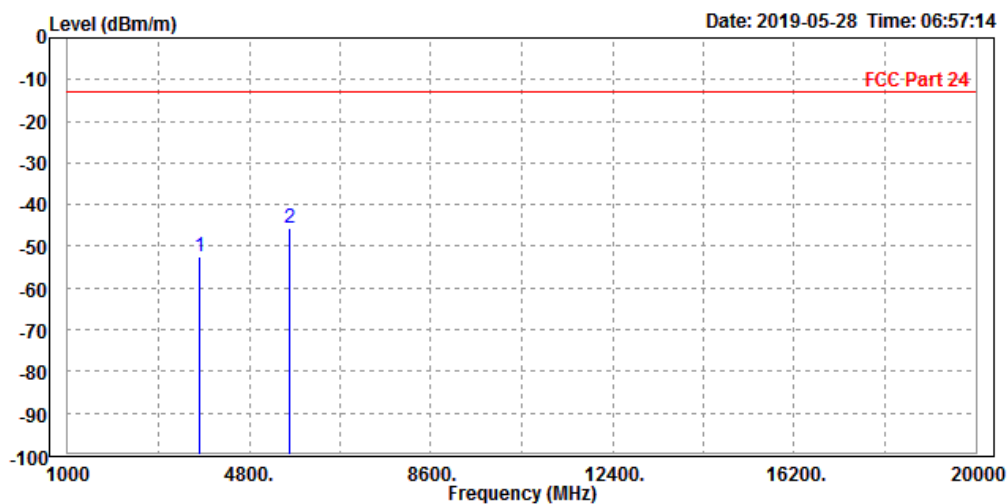


**BUREAU
VERITAS**

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		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL 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	-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



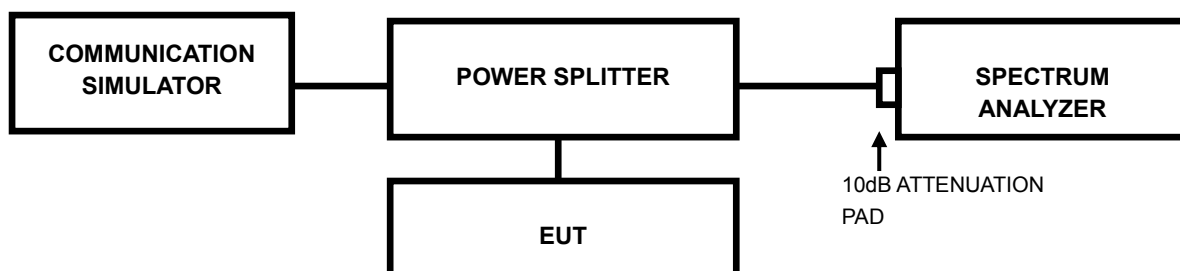


3.7 PEAK TO AVERAGE RATIO

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

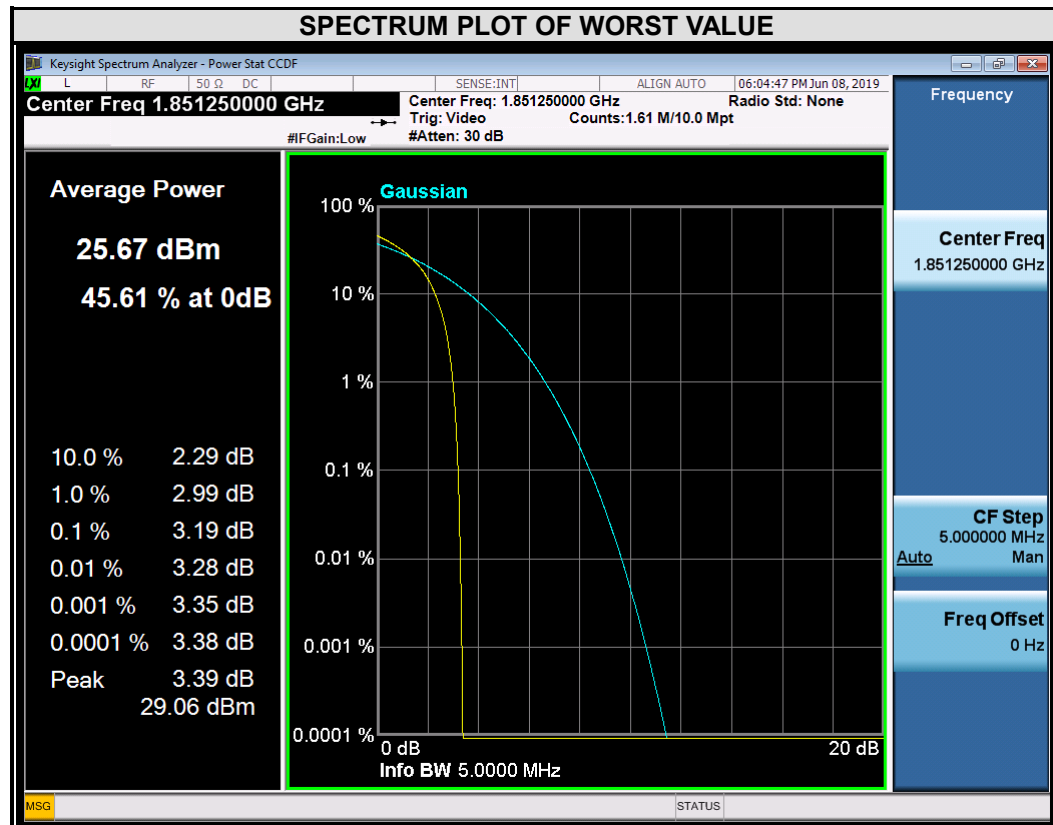
1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.



3.7.4 TEST RESULTS

CDMA BC1

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

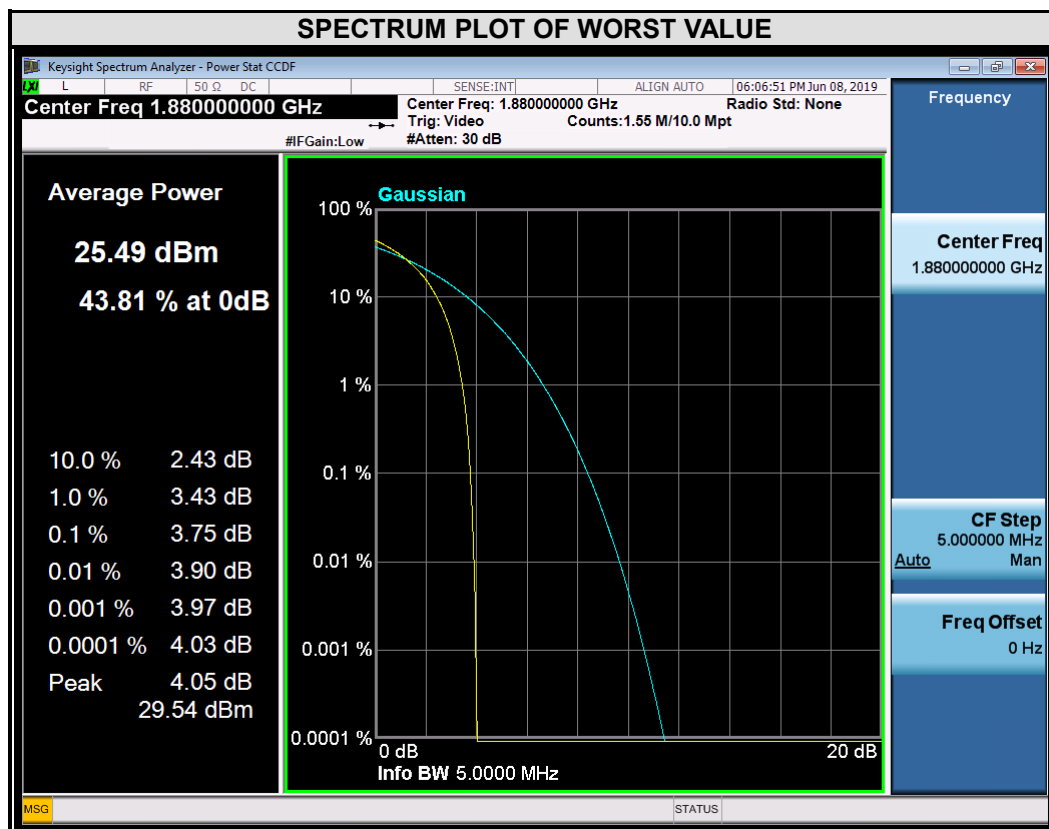




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CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)
600	1880	3.75

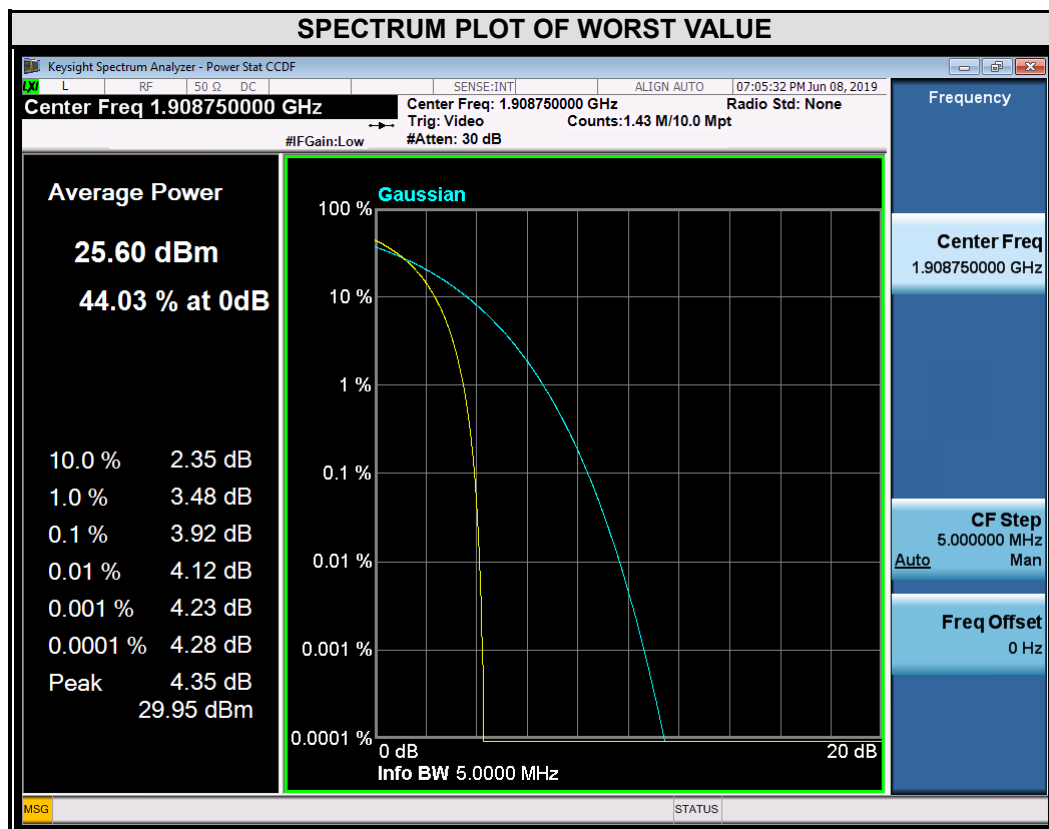




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Test Report No.: RF190517W003-4

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



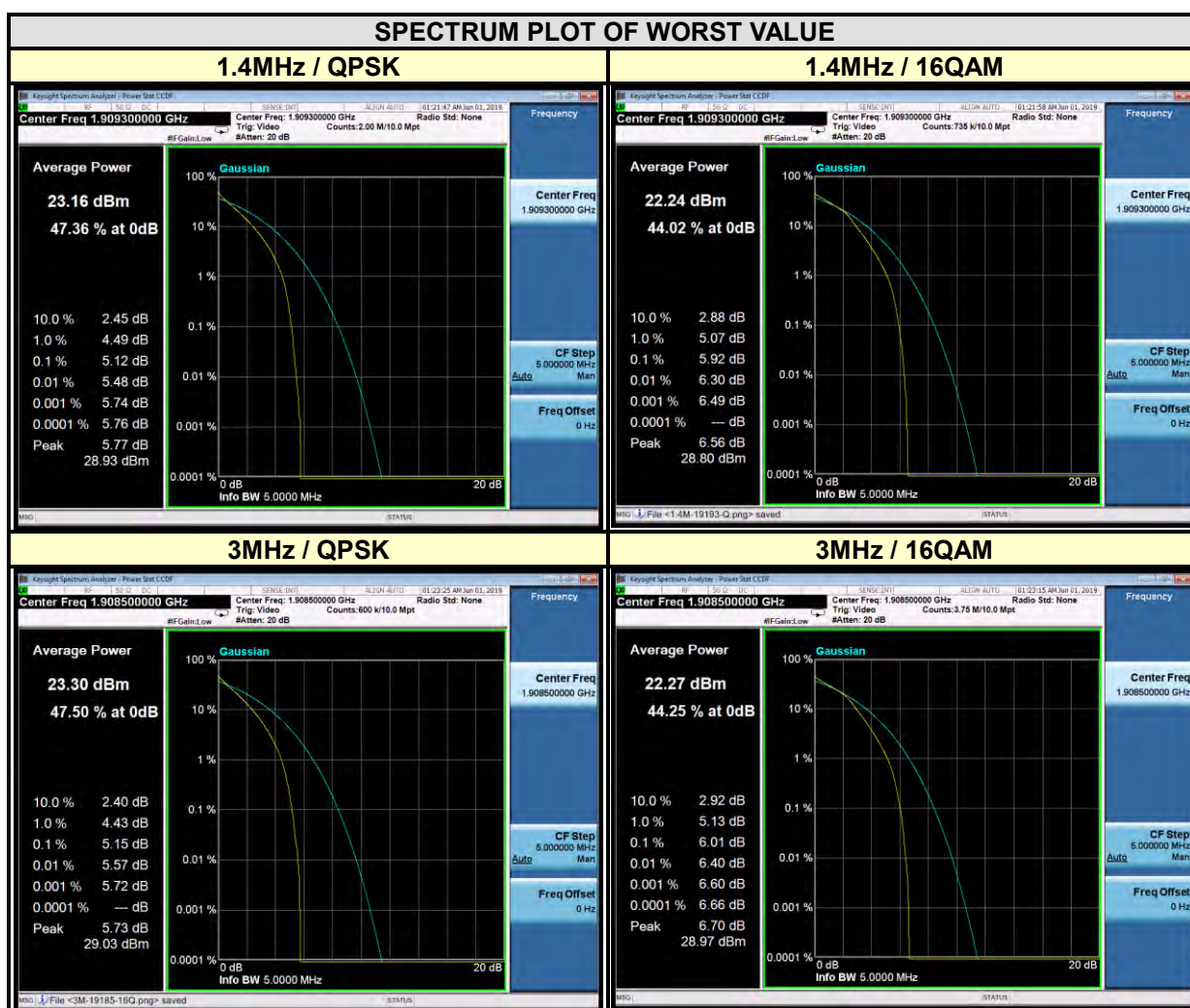


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Test Report No.: RF190517W003-4

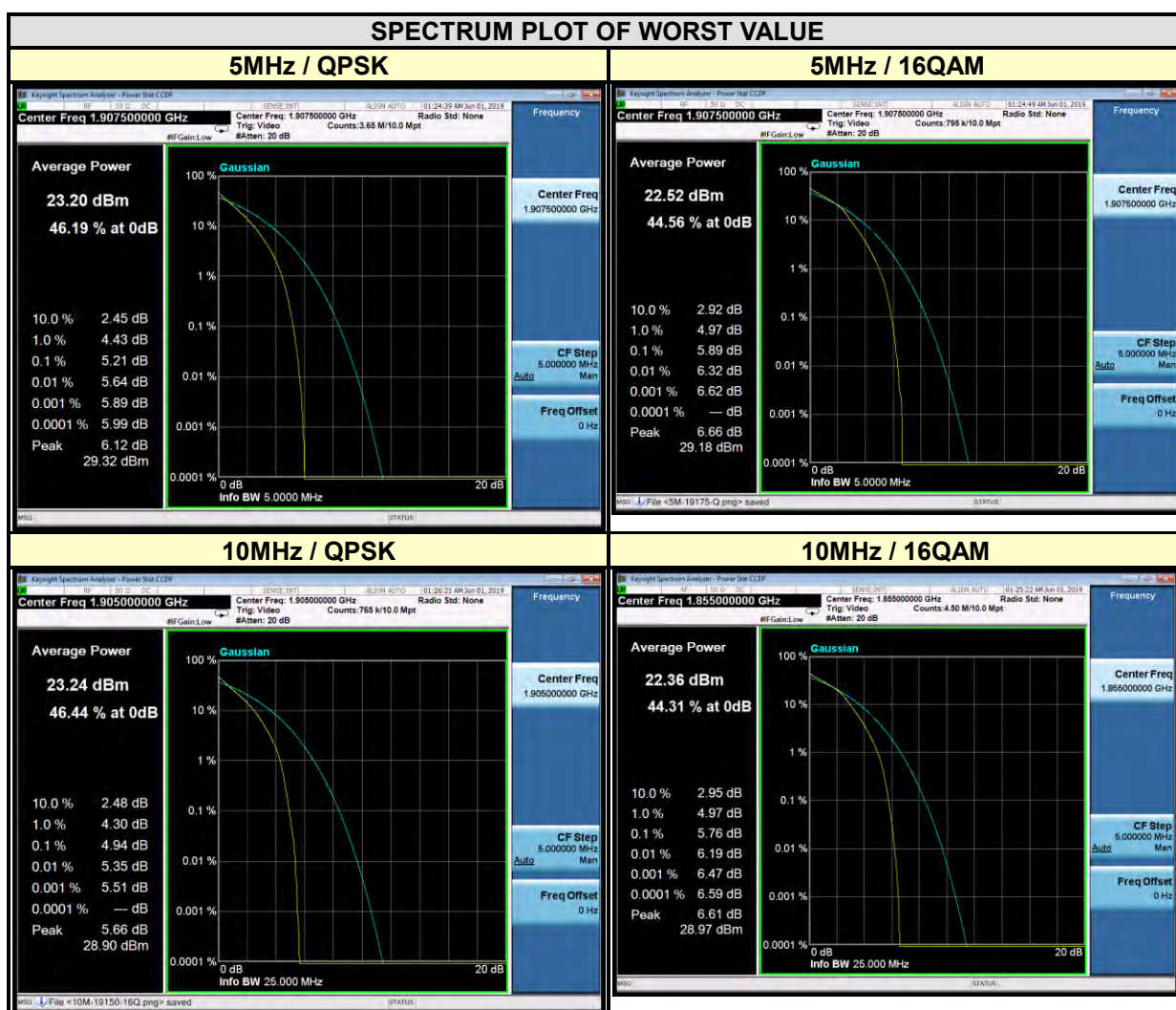
LTE BAND 2

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





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

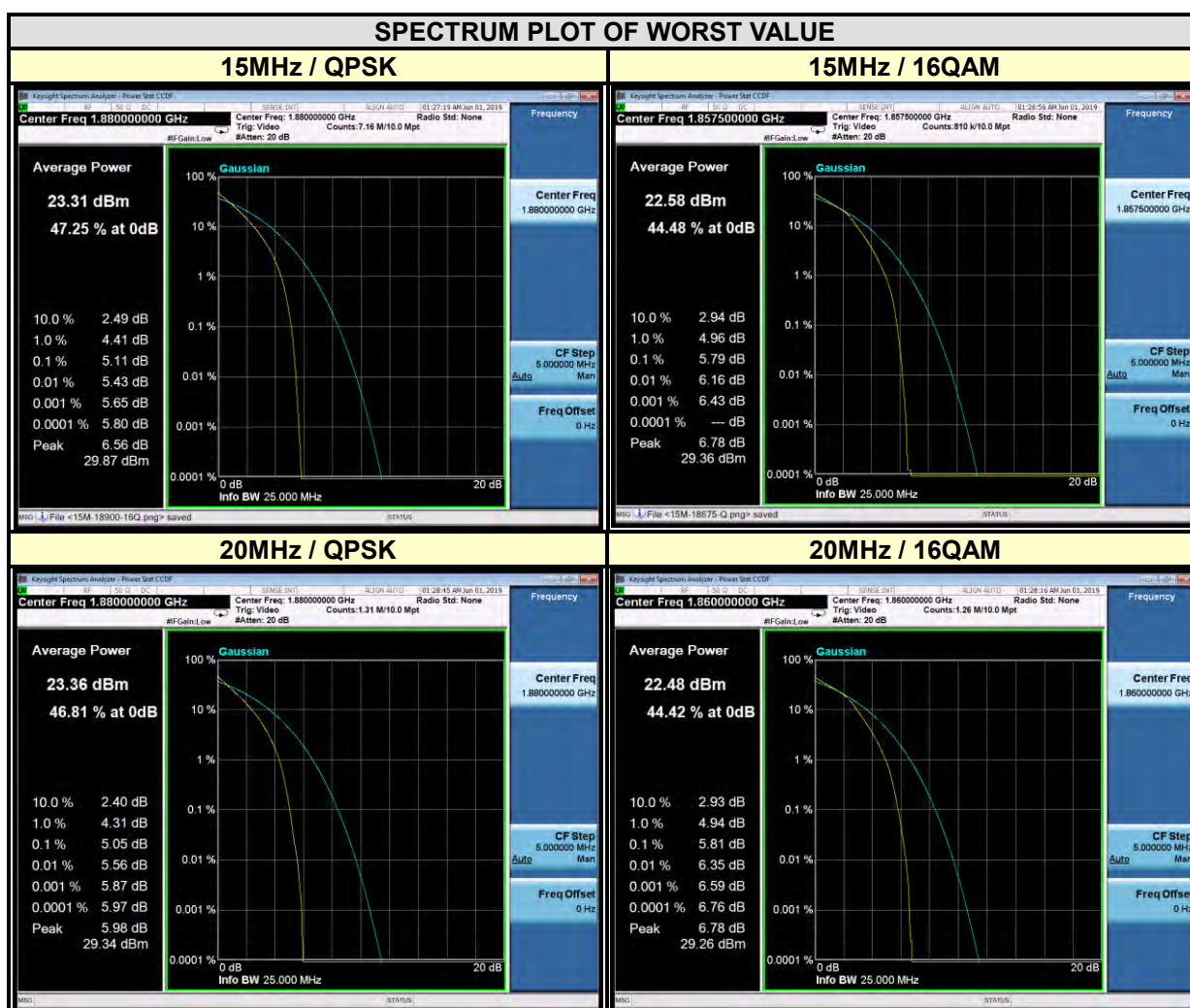




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VERITAS**

Test Report No.: RF190517W003-4

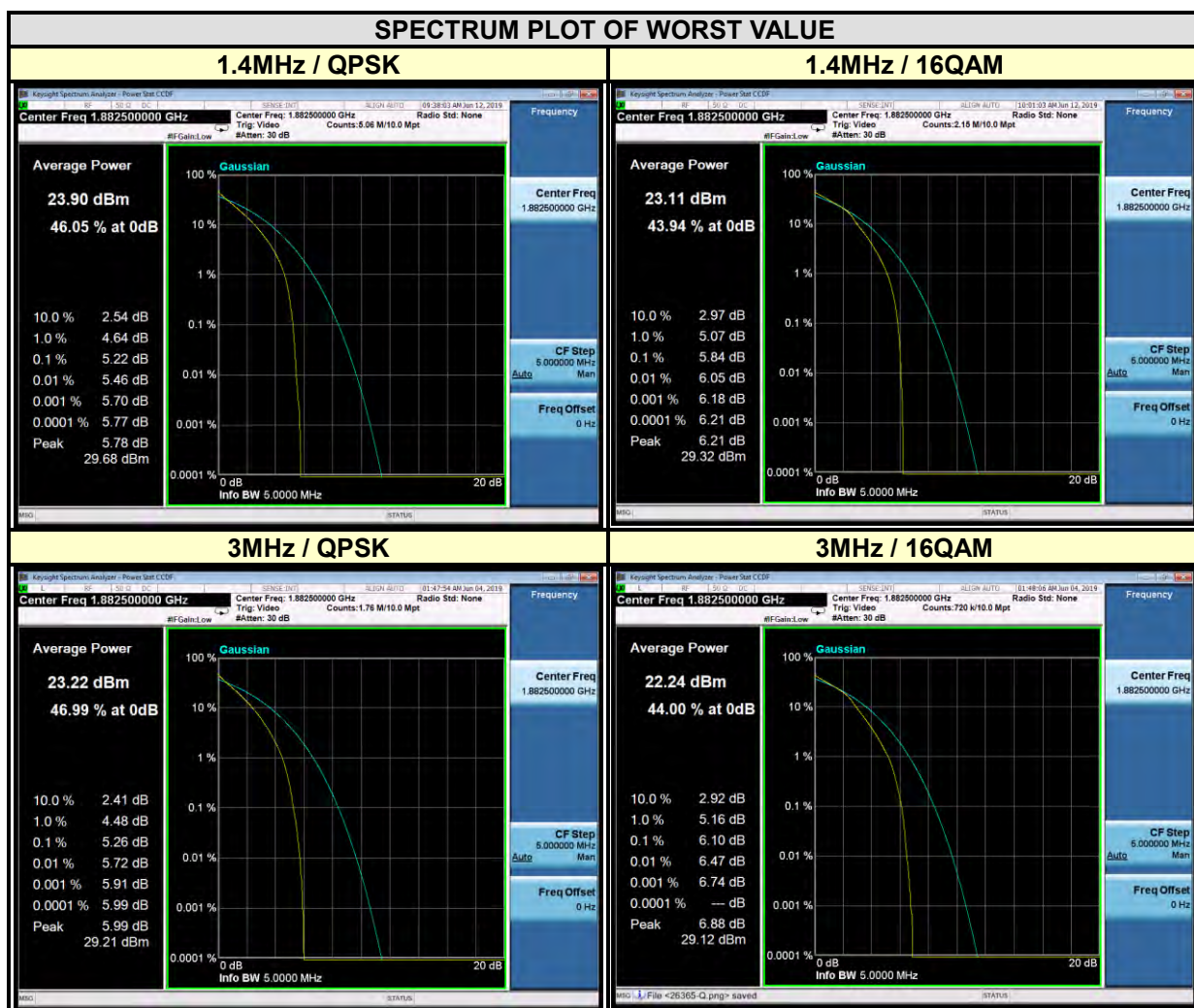
CHANNEL BANDWIDTH: 15MHz				CHANNEL BANDWIDTH: 20MHz			
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)		CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
		QPSK	16QAM			QPSK	16QAM
18675	1857.5	4.99	5.79	18700	1860	4.98	5.81
18900	1880	5.11	5.74	18900	1880	5.05	5.67
19125	1902.5	4.93	5.43	19100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

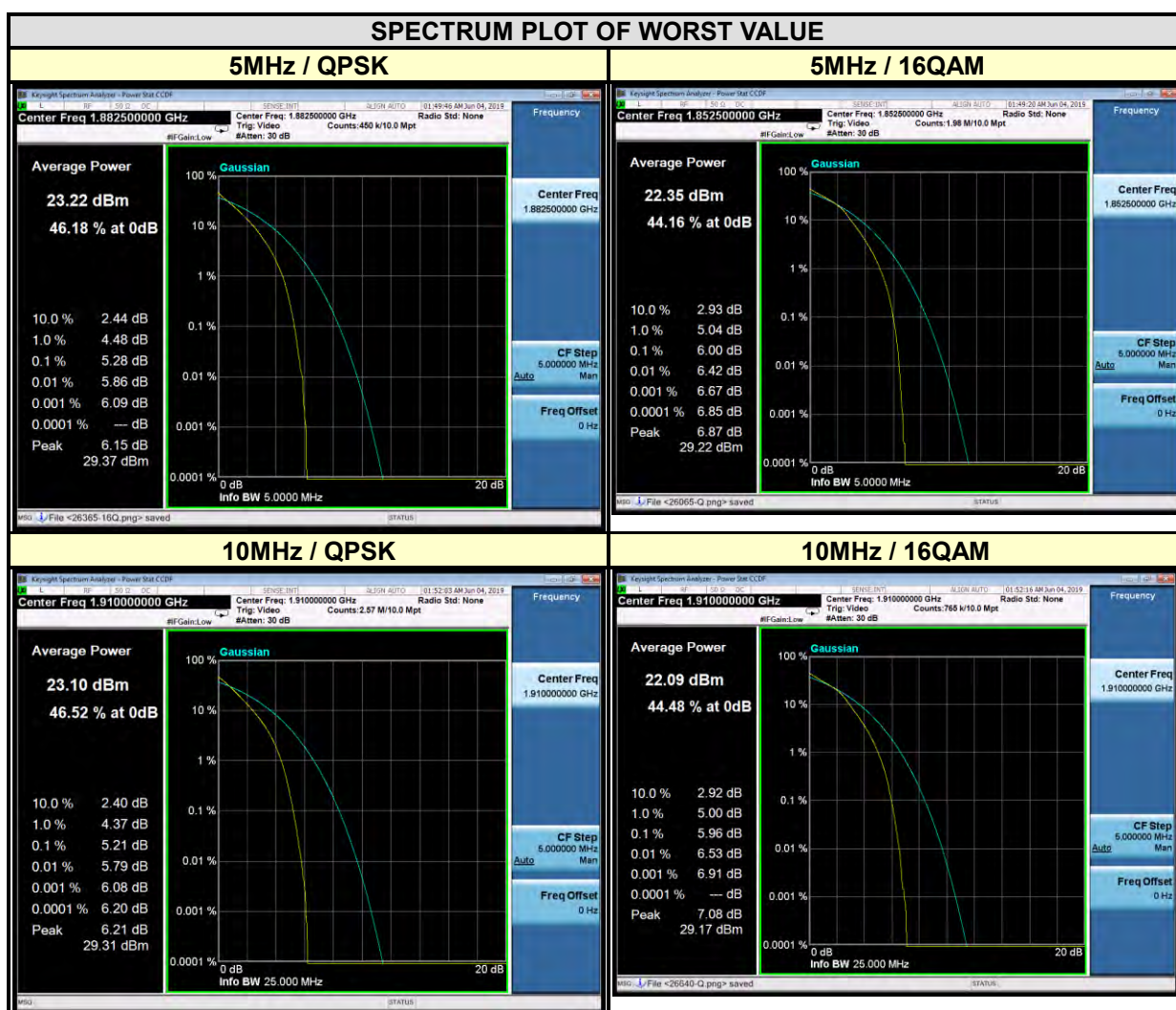




**BUREAU
VERITAS**

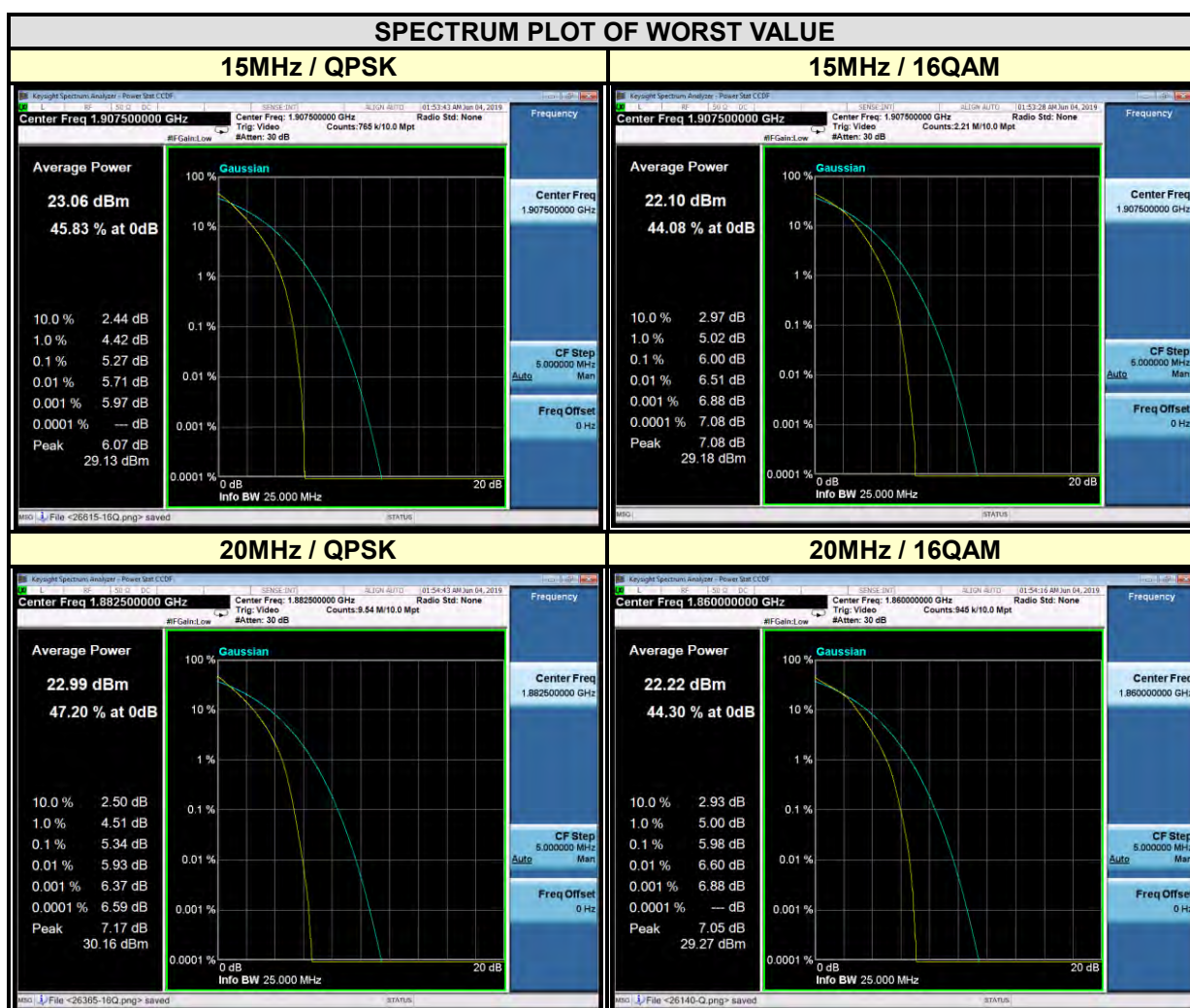
Test Report No.: RF190517W003-4

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





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





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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:

Shenzhen EMC/RF Lab:

Tel: +86-755-88696566

Fax: +86-755-88696577

Email: customerservice.dg@cn.bureauveritas.com

Web Site: www.adt.com.tw

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



BUREAU VERITAS Test Report No.: RF190517W003-4

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---