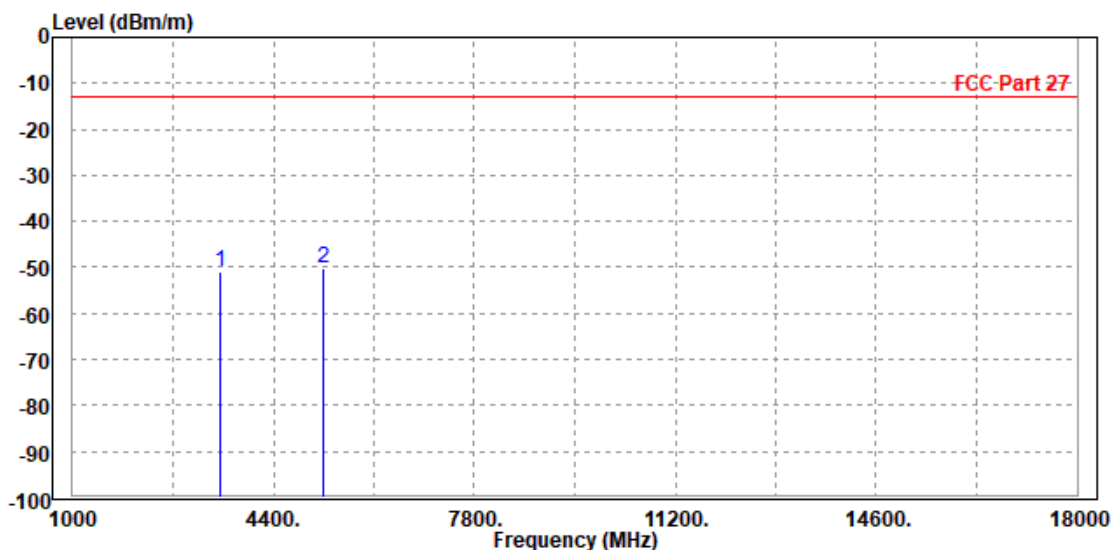




Test Report No.: W7L-P23010024RF06

MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	3499.000	-51.06	-58.38	-13.00	-38.06	7.32	Peak	Vertical
2 PP	5250.000	-50.21	-60.71	-13.00	-37.21	10.50	Peak	Vertical





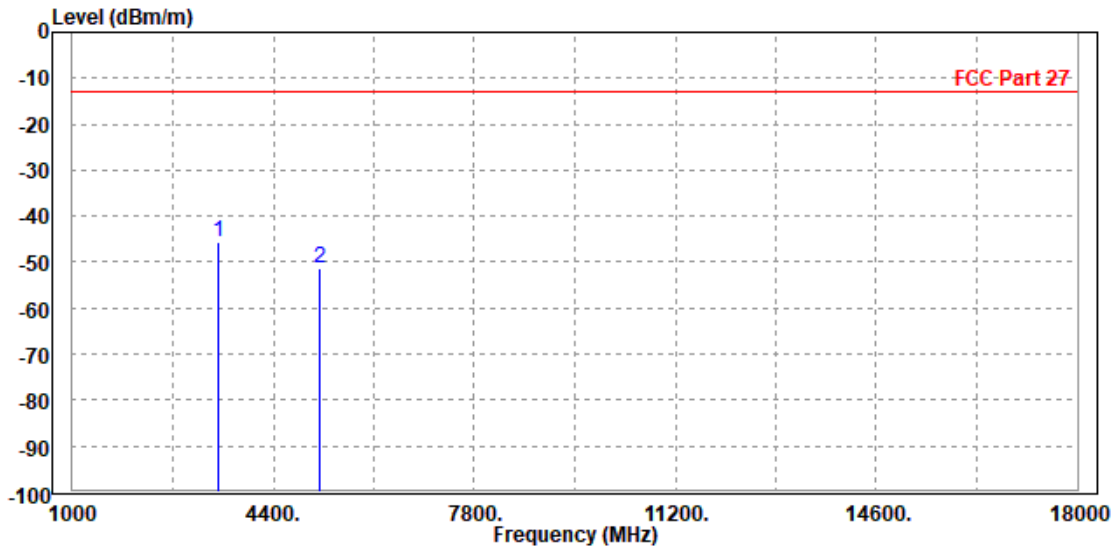
**BUREAU
VERITAS**

Test Report No.: W7L-P23010024RF06

CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 3465.000	-45.64	-52.91	-13.00	-32.64	7.27	Peak	Horizontal
2	5197.500	-51.27	-61.27	-13.00	-38.27	10.00	Peak	Horizontal

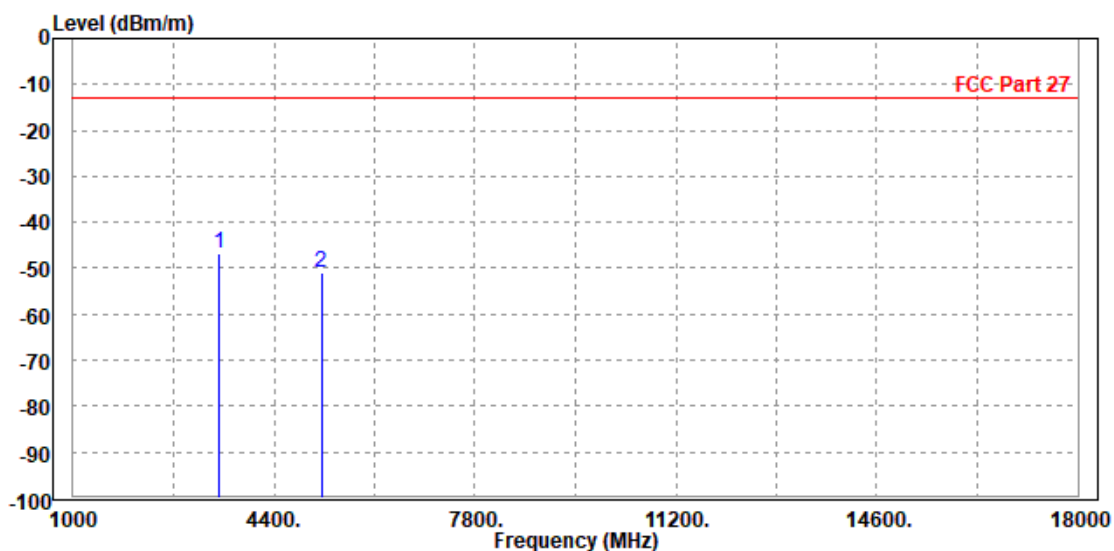




Test Report No.: W7L-P23010024RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 3465.000	-46.84	-54.10	-13.00	-33.84	7.26	Peak	Vertical
2	5199.000	-50.94	-61.39	-13.00	-37.94	10.45	Peak	Vertical





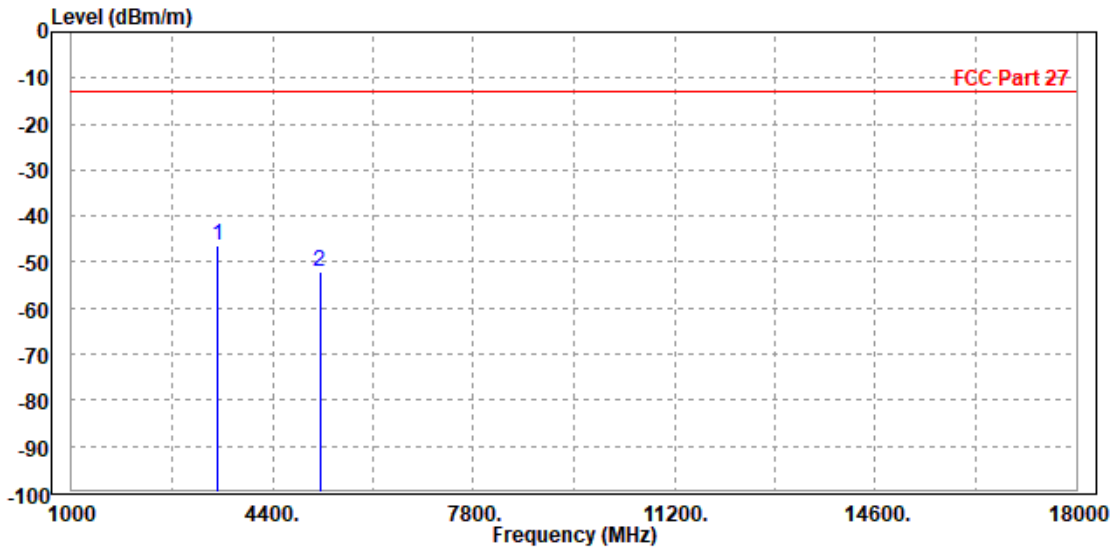
BUREAU VERITAS

Test Report No.: W7L-P23010024RF06

CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 3465.000	-46.52	-53.79	-13.00	-33.52	7.27	Peak	Horizontal
2	5199.000	-51.91	-61.91	-13.00	-38.91	10.00	Peak	Horizontal

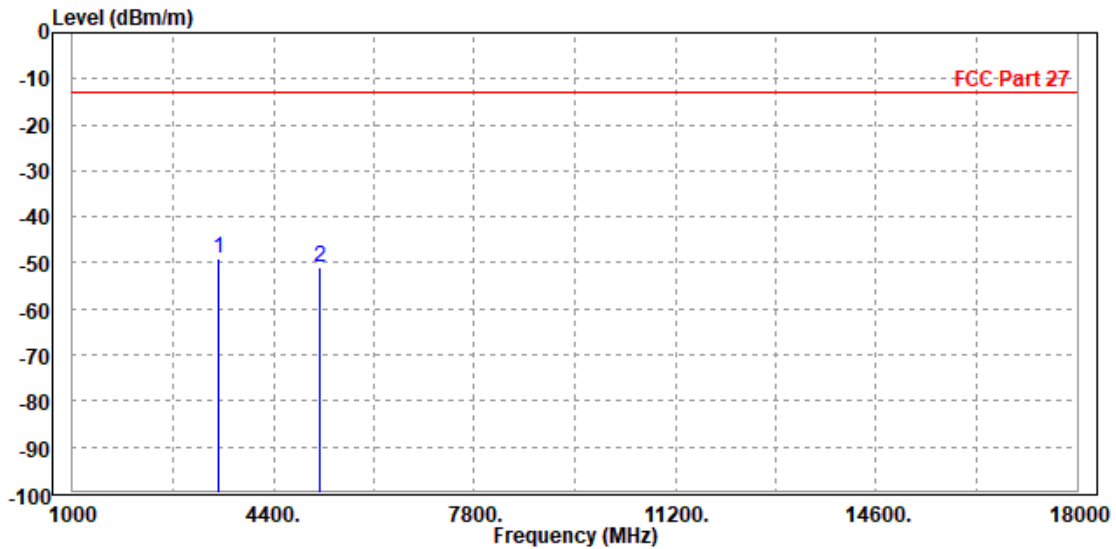




Test Report No.: W7L-P23010024RF06

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 3465.000	-48.86	-56.12	-13.00	-35.86	7.26	Peak	Vertical
2	5197.500	-50.77	-61.22	-13.00	-37.77	10.45	Peak	Vertical





BUREAU VERITAS

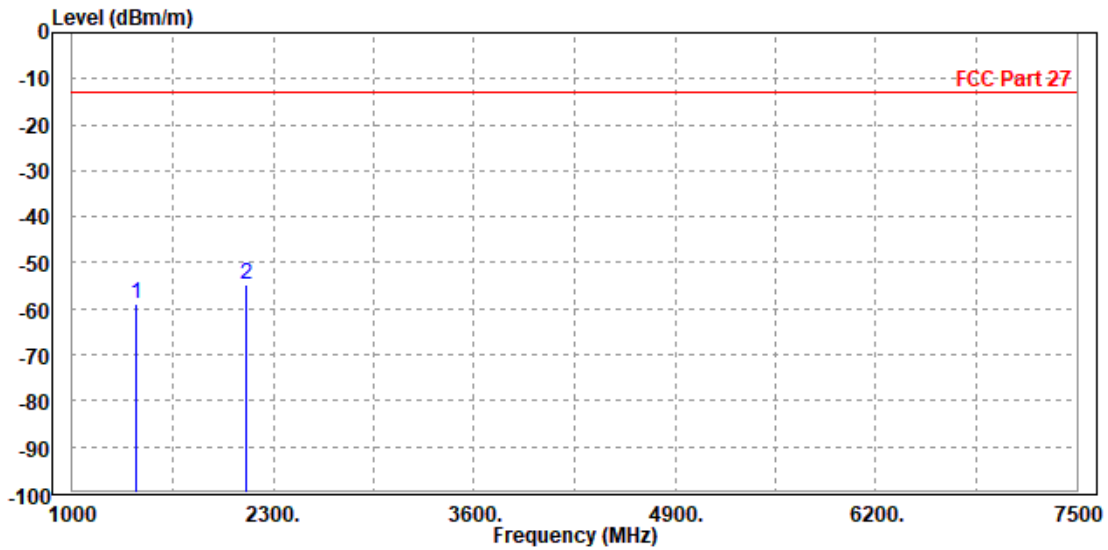
Test Report No.: W7L-P23010024RF06

LTE BAND 12

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1415.000	-58.84	-58.19	-13.00	-45.84	-0.65	Peak	Horizontal
2 PP	2124.500	-54.80	-58.87	-13.00	-41.80	4.07	Peak	Horizontal

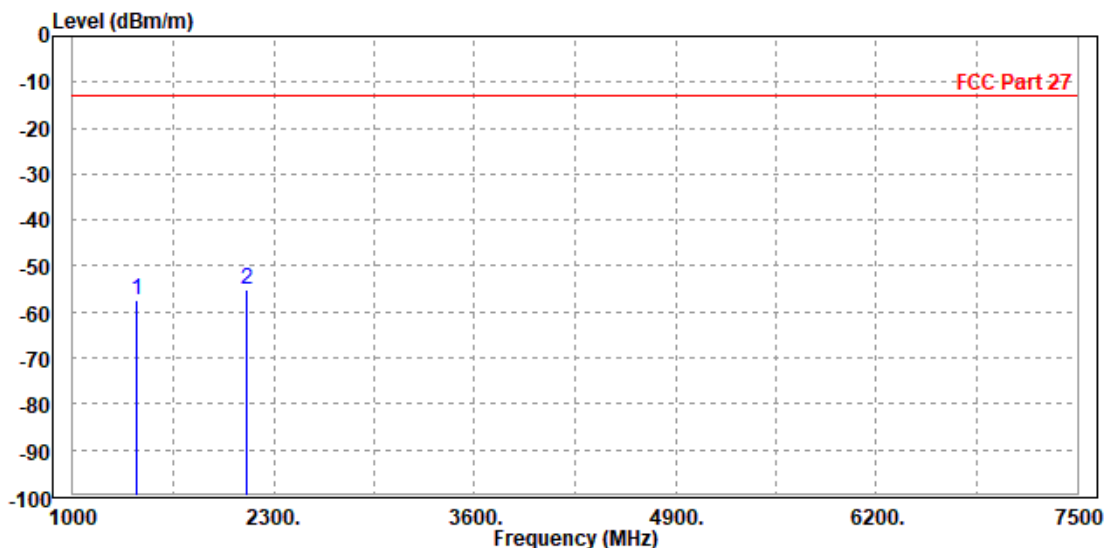




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1416.000	-57.55	-57.15	-13.00	-44.55	-0.40	Peak	Vertical
2 PP	2122.500	-55.08	-59.00	-13.00	-42.08	3.92	Peak	Vertical





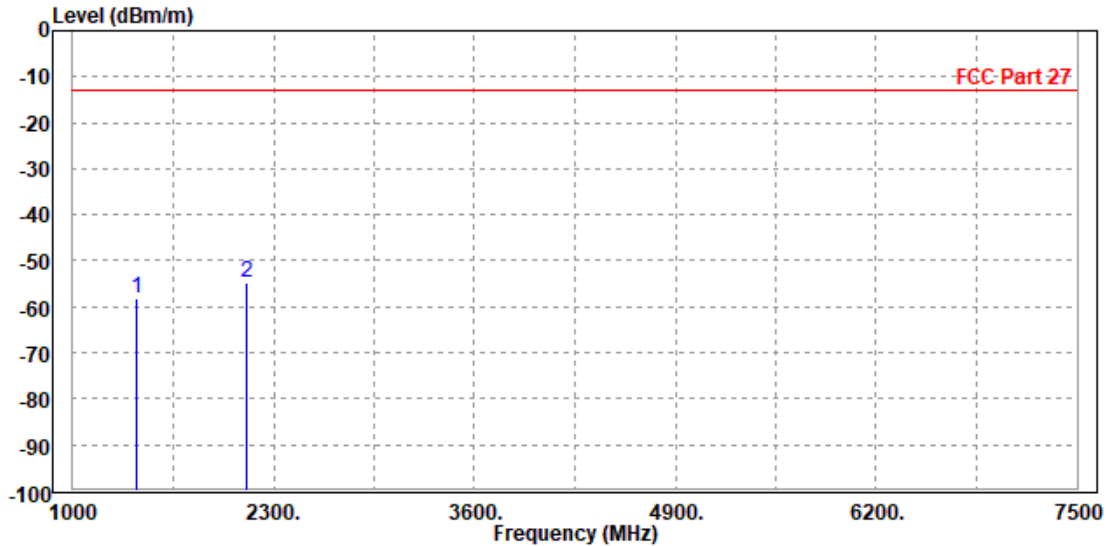
BUREAU VERITAS

Test Report No.: W7L-P23010024RF06

CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1416.000	-58.33	-57.69	-13.00	-45.33	-0.64	Peak	Horizontal
2	PP 2122.500	-54.57	-58.63	-13.00	-41.57	4.06	Peak	Horizontal

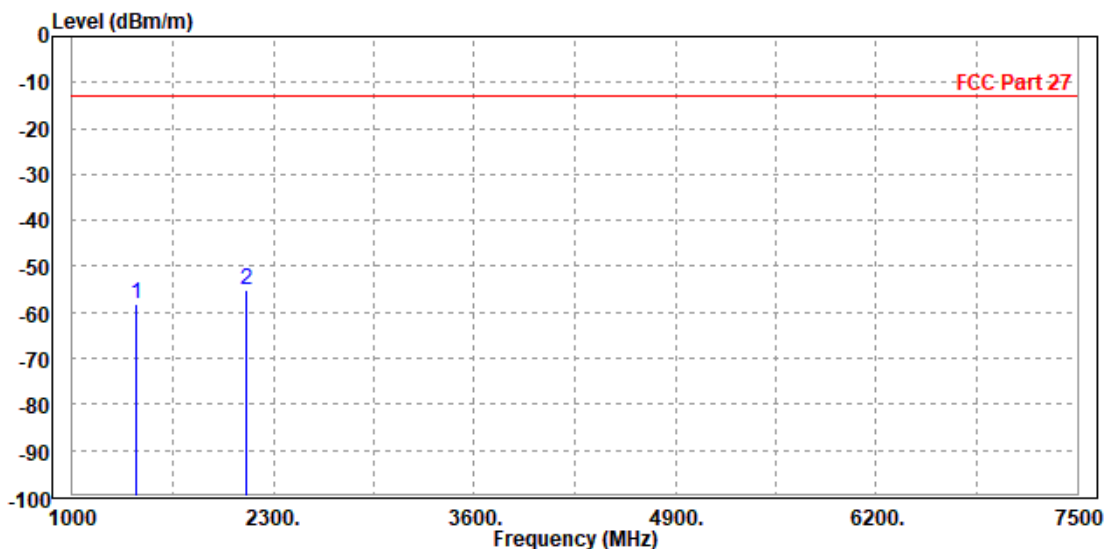




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M			

	Freq	Level	Read Level	Limit	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	1415.000	-58.03	-57.62	-13.00	-45.03	-0.41	Peak	Vertical
2	PP 2124.500	-55.23	-59.15	-13.00	-42.23	3.92	Peak	Vertical





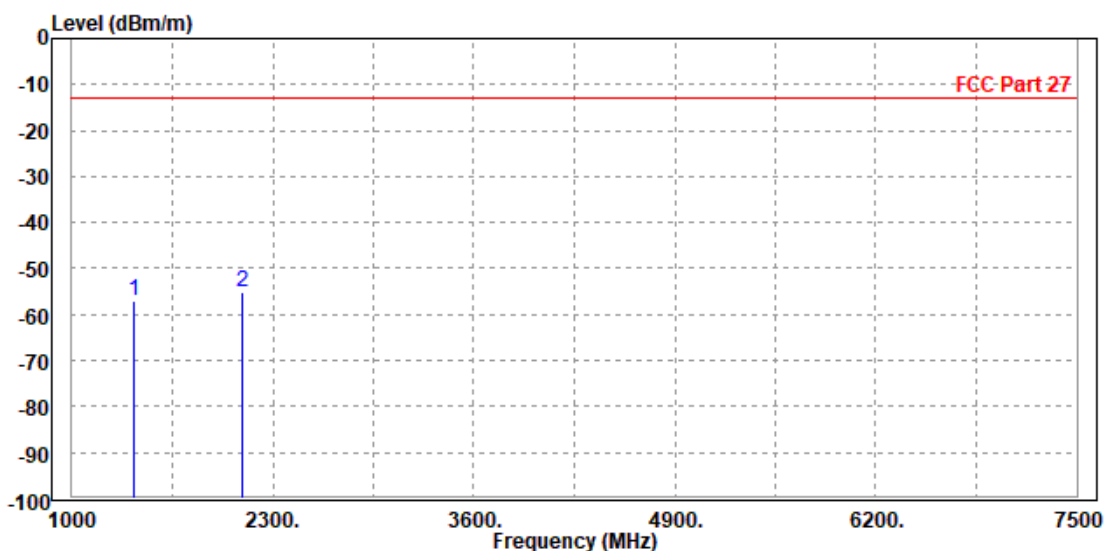
Test Report No.: W7L-P23010024RF06

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 23035

MODE	TX channel 23035	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1403.000	-56.97	-56.29	-13.00	-43.97	-0.68	Peak	Horizontal
2 PP	2104.500	-55.10	-59.10	-13.00	-42.10	4.00	Peak	Horizontal

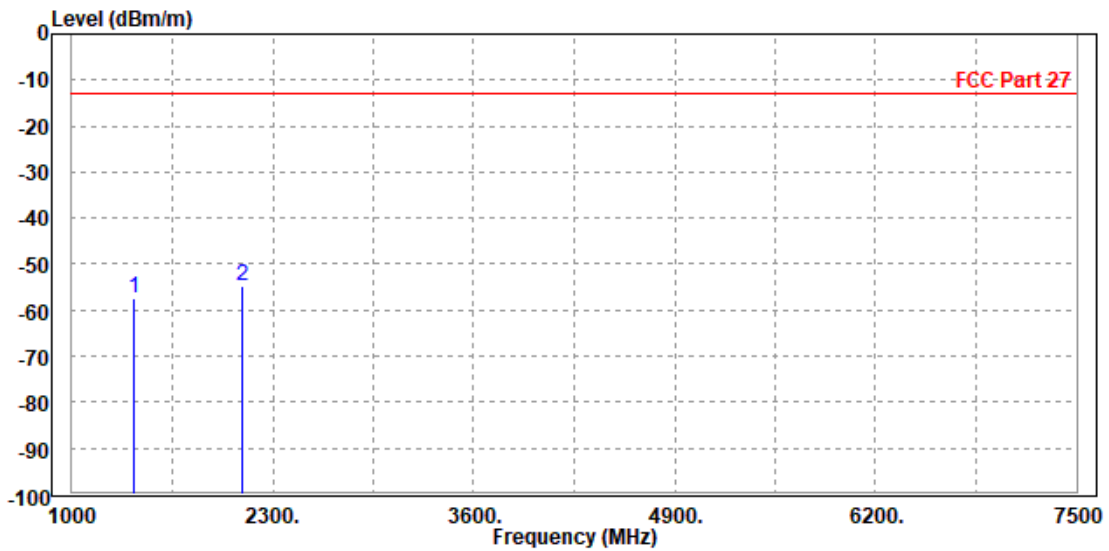




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23035	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1403.000	-57.49	-57.03	-13.00	-44.49	-0.46	Peak	Vertical
2 PP	2105.000	-54.85	-58.72	-13.00	-41.85	3.87	Peak	Vertical



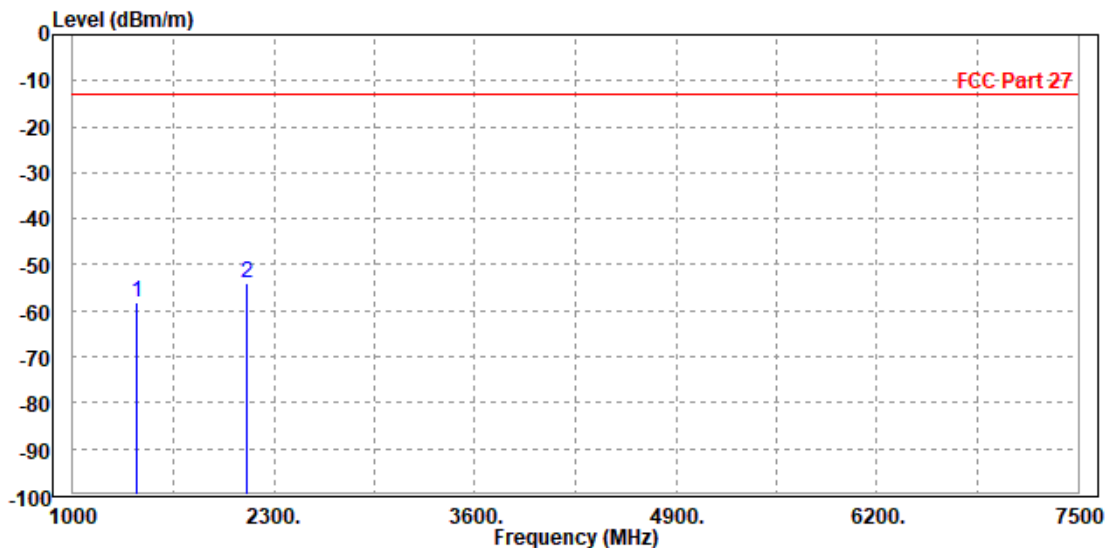


Test Report No.: W7L-P23010024RF06

CH 23095

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1415.000	-58.04	-57.39	-13.00	-45.04	-0.65	Peak	Horizontal
2 PP	2124.500	-53.99	-58.06	-13.00	-40.99	4.07	Peak	Horizontal

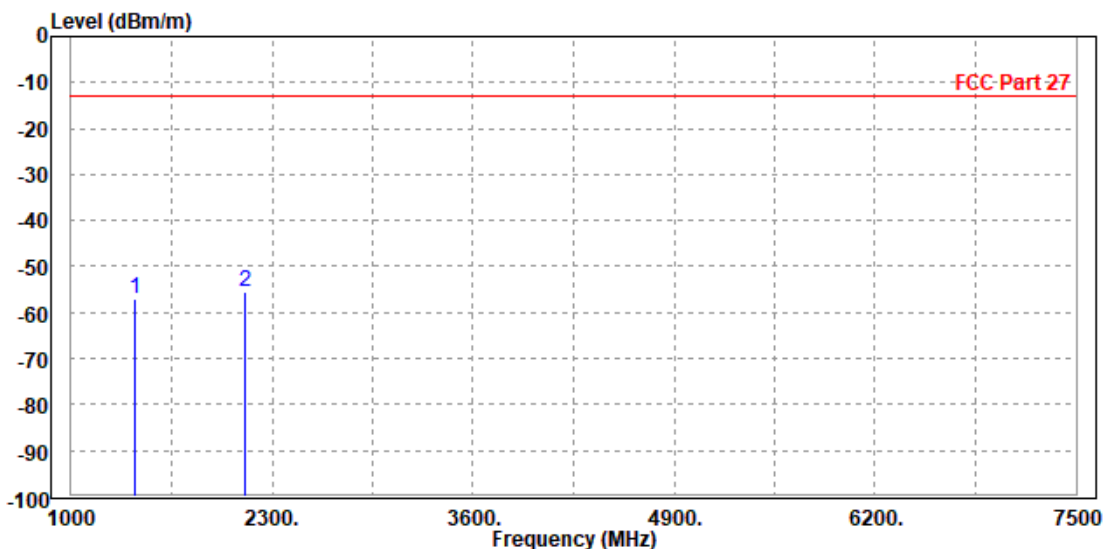




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1416.000	-57.16	-56.76	-13.00	-44.16	-0.40	Peak	Vertical
2 PP	2122.500	-55.36	-59.28	-13.00	-42.36	3.92	Peak	Vertical





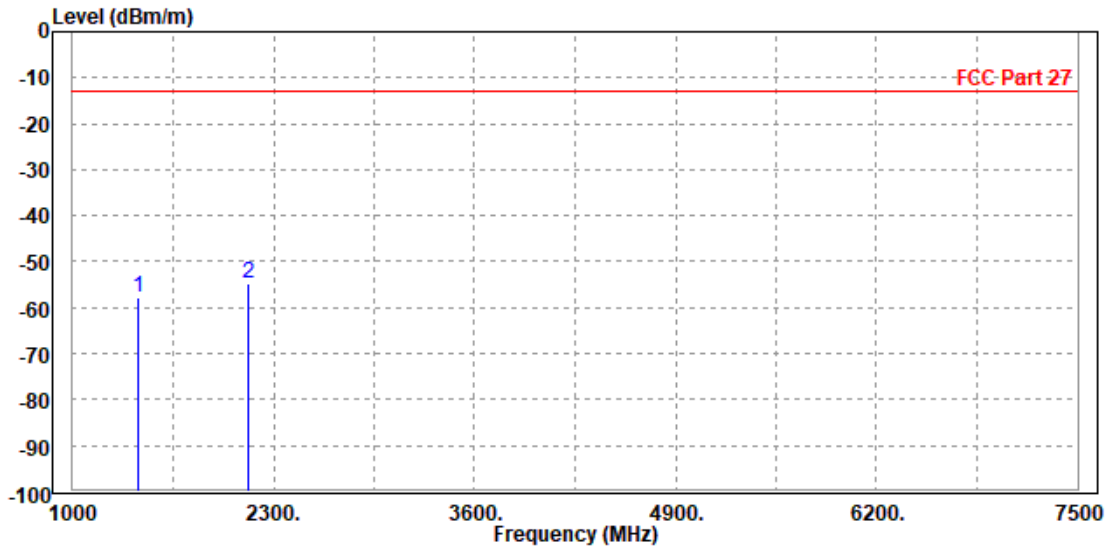
**BUREAU
VERITAS**

Test Report No.: W7L-P23010024RF06

CH 23155

MODE	TX channel 23155	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1427.000	-57.94	-57.33	-13.00	-44.94	-0.61	Peak	Horizontal
2 PP	2137.500	-54.73	-58.85	-13.00	-41.73	4.12	Peak	Horizontal

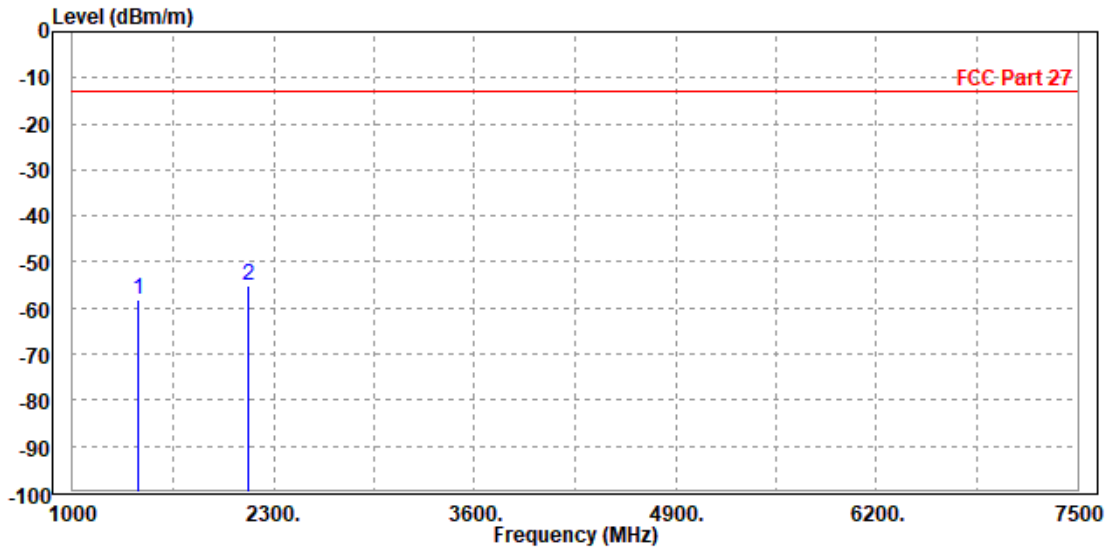




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23155	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1429.000	-58.05	-57.70	-13.00	-45.05	-0.35	Peak	Vertical
2 PP	2140.500	-55.24	-59.21	-13.00	-42.24	3.97	Peak	Vertical



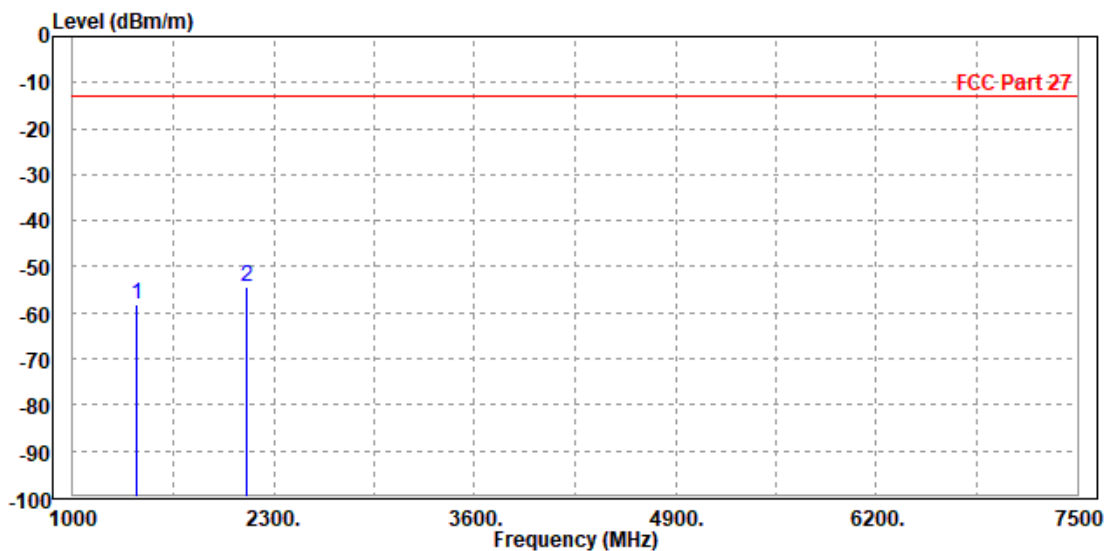


Test Report No.: W7L-P23010024RF06

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1416.000	-58.05	-57.41	-13.00	-45.05	-0.64	Peak	Horizontal
2 PP	2122.500	-54.31	-58.37	-13.00	-41.31	4.06	Peak	Horizontal

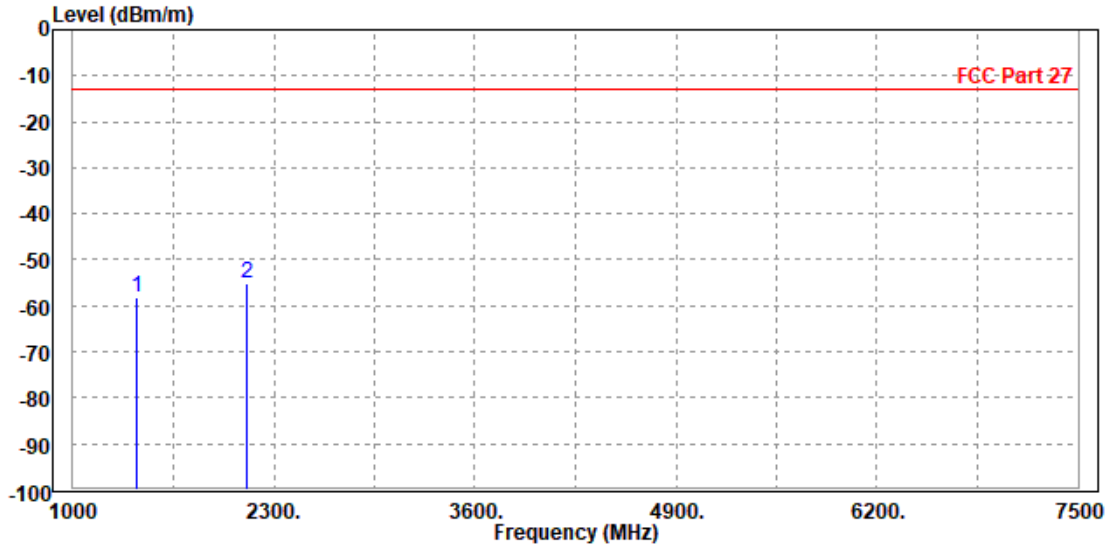




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23095	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1415.000	-58.04	-57.63	-13.00	-45.04	-0.41	Peak	Vertical
2 PP	2124.500	-55.24	-59.16	-13.00	-42.24	3.92	Peak	Vertical





Test Report No.: W7L-P23010024RF06

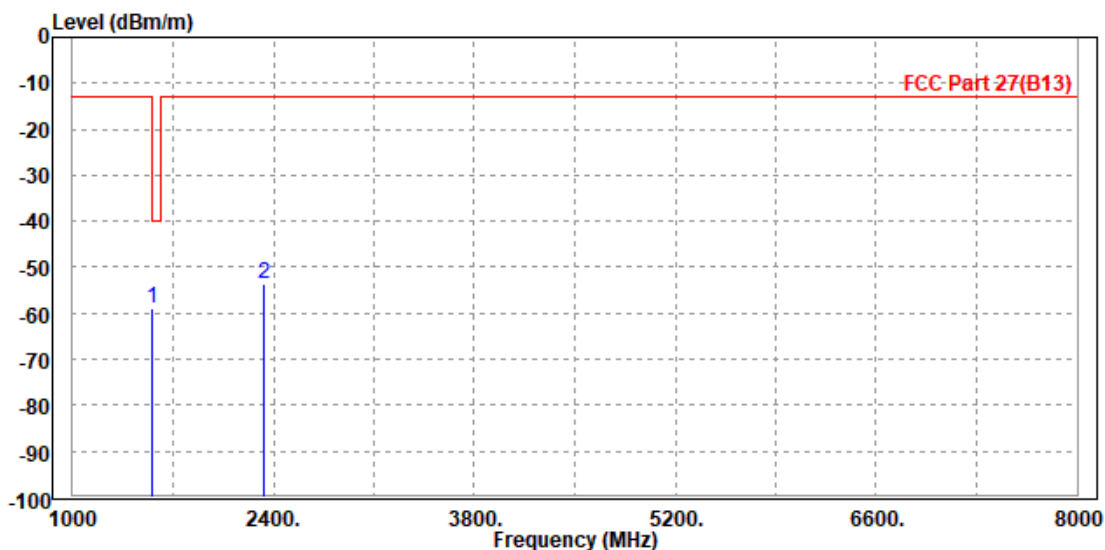
LTE B13

CHANNEL BANDWIDTH: 5MHz / QPSK

CH23205

MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 1560.000	-59.02	-59.08	-40.00	-19.02	0.06	Peak	Horizontal
2	2338.500	-53.59	-58.44	-13.00	-40.59	4.85	Peak	Horizontal

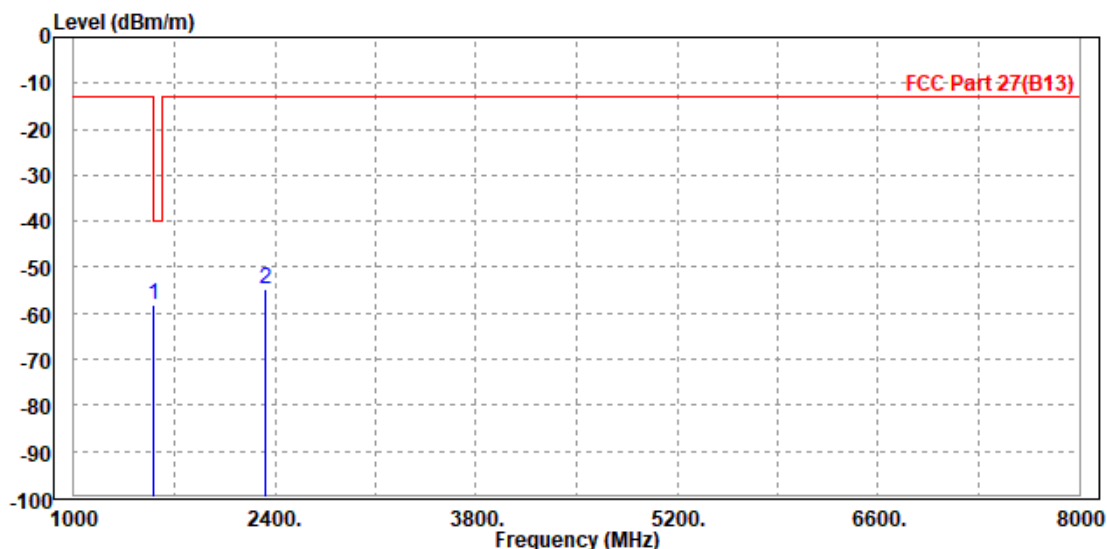




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23205	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1559.000	-58.36	-58.75	-40.00	-18.36	0.39	Peak	Vertical
2	2337.000	-54.81	-59.31	-13.00	-41.81	4.50	Peak	Vertical



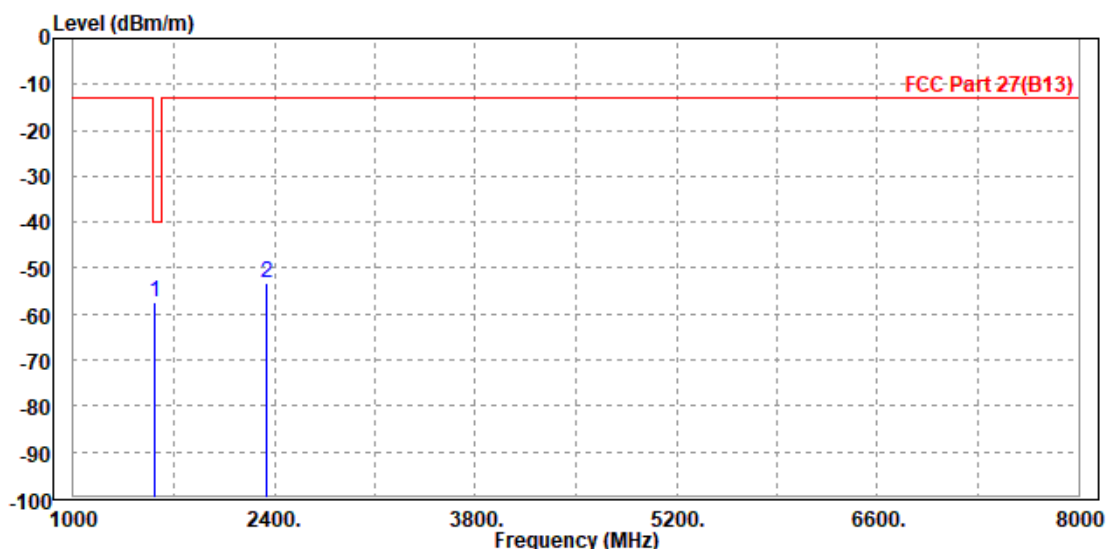


Test Report No.: W7L-P23010024RF06

CH23230

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 1564.000	-57.37	-57.47	-40.00	-17.37	0.10	Peak	Horizontal
2	2344.000	-53.38	-58.25	-13.00	-40.38	4.87	Peak	Horizontal

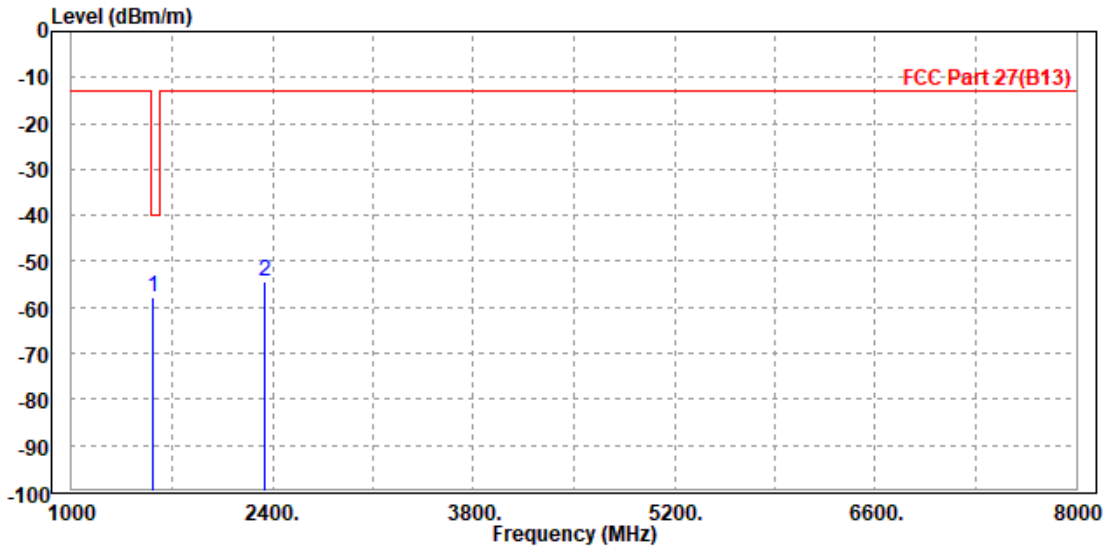




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 1567.000	-57.93	-58.38	-40.00	-17.93	0.45	Peak	Vertical
2	2346.000	-54.38	-58.90	-13.00	-41.38	4.52	Peak	Vertical



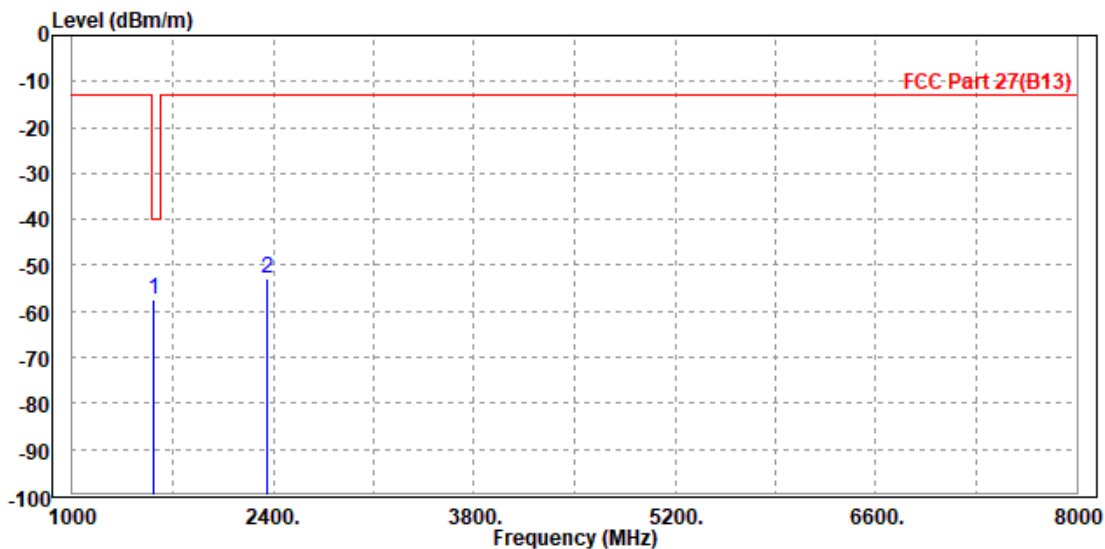


Test Report No.: W7L-P23010024RF06

CH23255

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 1567.000	-57.41	-57.53	-40.00	-17.41	0.12	Peak	Horizontal
2	2353.500	-53.04	-57.95	-13.00	-40.04	4.91	Peak	Horizontal

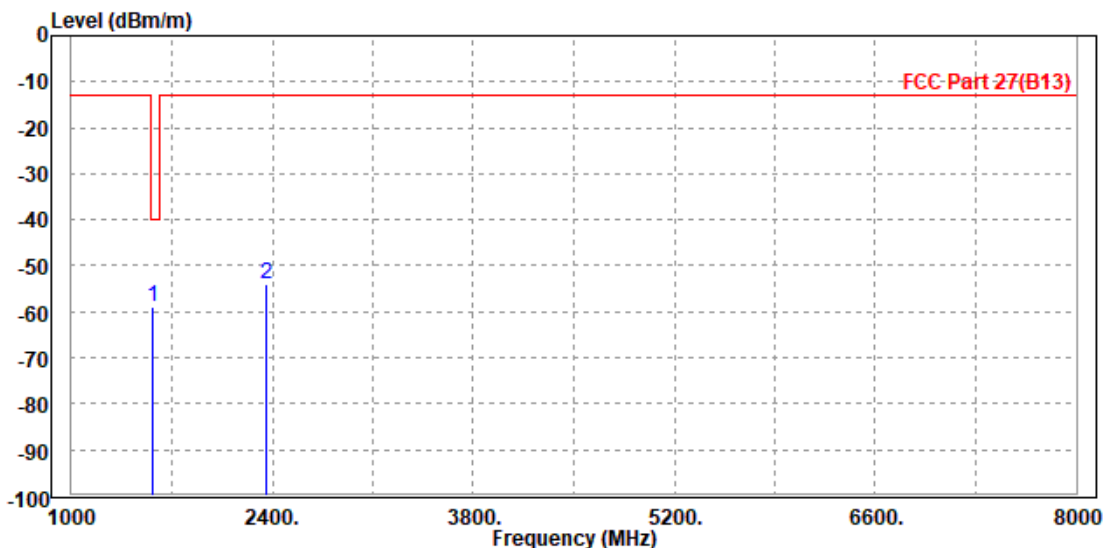




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23255	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 1567.000	-58.77	-59.22	-40.00	-18.77	0.45	Peak	Vertical
2	2353.500	-53.94	-58.48	-13.00	-40.94	4.54	Peak	Vertical



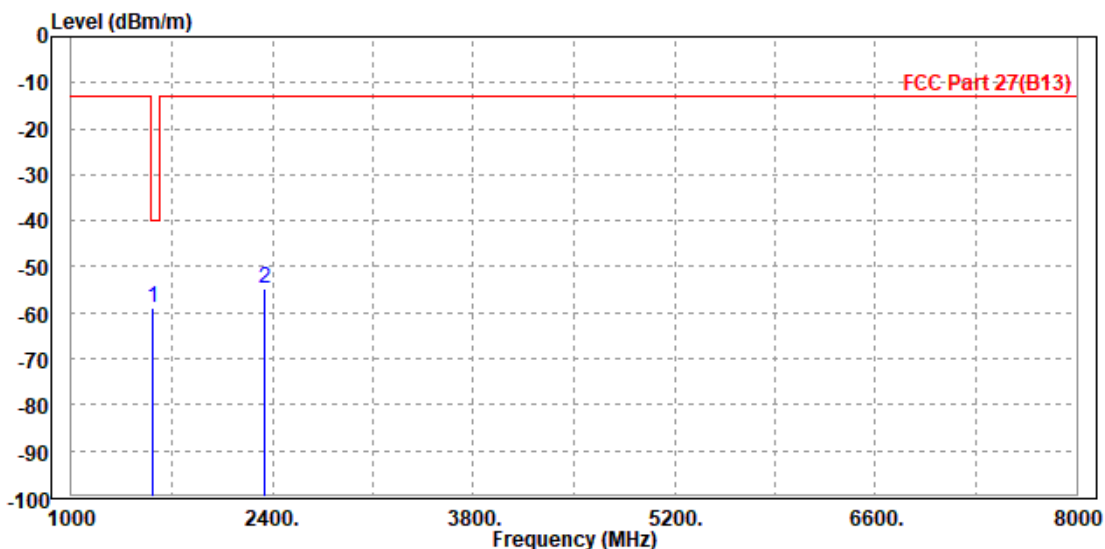


Test Report No.: W7L-P23010024RF06

CHANNEL BANDWIDTH: 10MHz /QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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	1564.000	-59.12	-59.22	-40.00	-19.12	0.10	Peak	Horizontal
2	2344.000	-54.81	-59.68	-13.00	-41.81	4.87	Peak	Horizontal

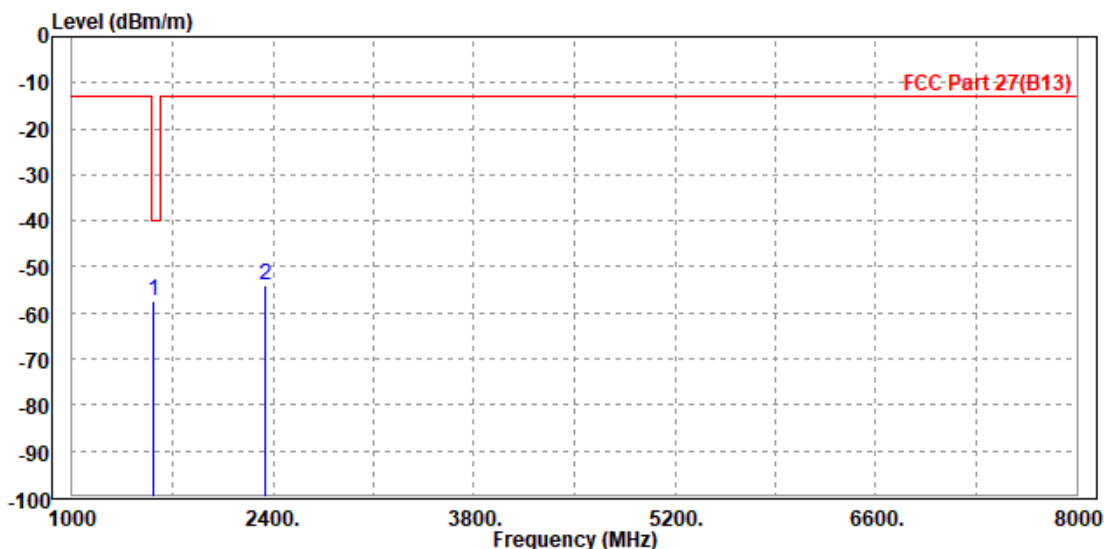




Test Report No.: W7L-P23010024RF06

MODE	TX channel 23230	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 56%RH	INPUT POWER	AC 120V/60HZ
TESTED BY	Jace Hu		
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 1567.000	-57.30	-57.75	-40.00	-17.30	0.45	Peak	Vertical
2	2346.000	-53.88	-58.40	-13.00	-40.88	4.52	Peak	Vertical

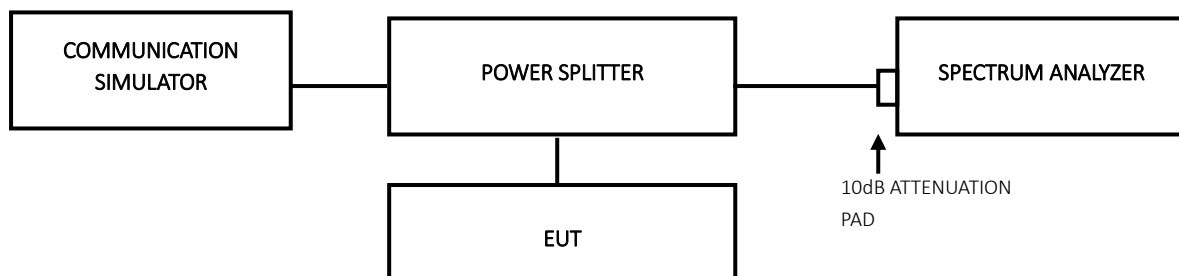


3.7 PEAK TO AVERAGE RATIO

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%.



Test Report No.: W7L-P23010024RF06

3.7.4 TEST RESULTS

Please Refer to Appendix Of this test report.



Test Report No.: W7L-P23010024RF06

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



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5 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.



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6 APPENDIX

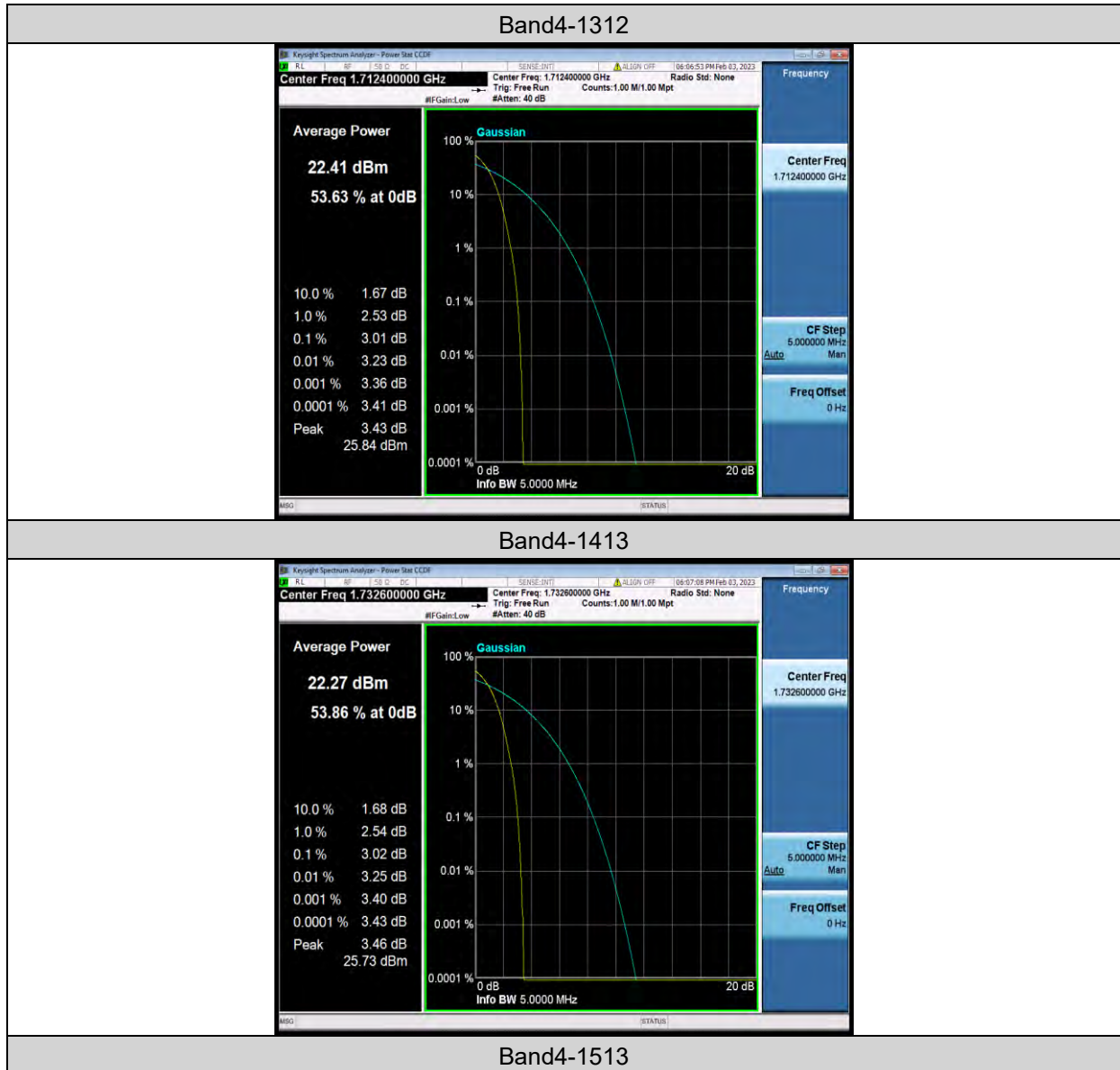
WCDMA BAND4

PEAK-TO-AVERAGE RATIO

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	3.01	13	PASS
Band4	1413	3.02	13	PASS
Band4	1513	2.97	13	PASS

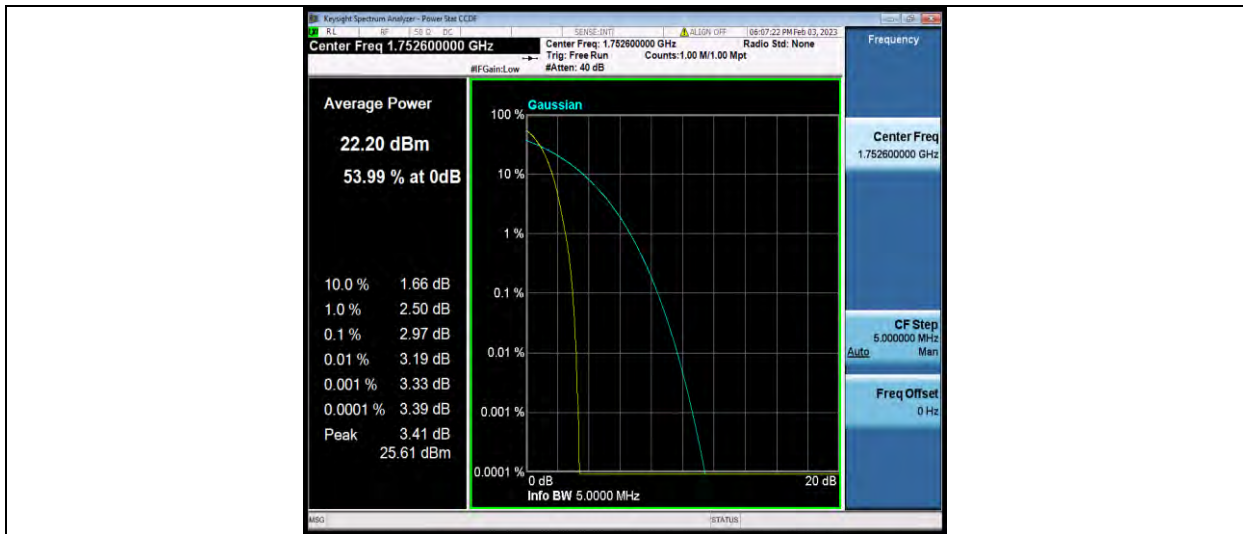
Test Graphs





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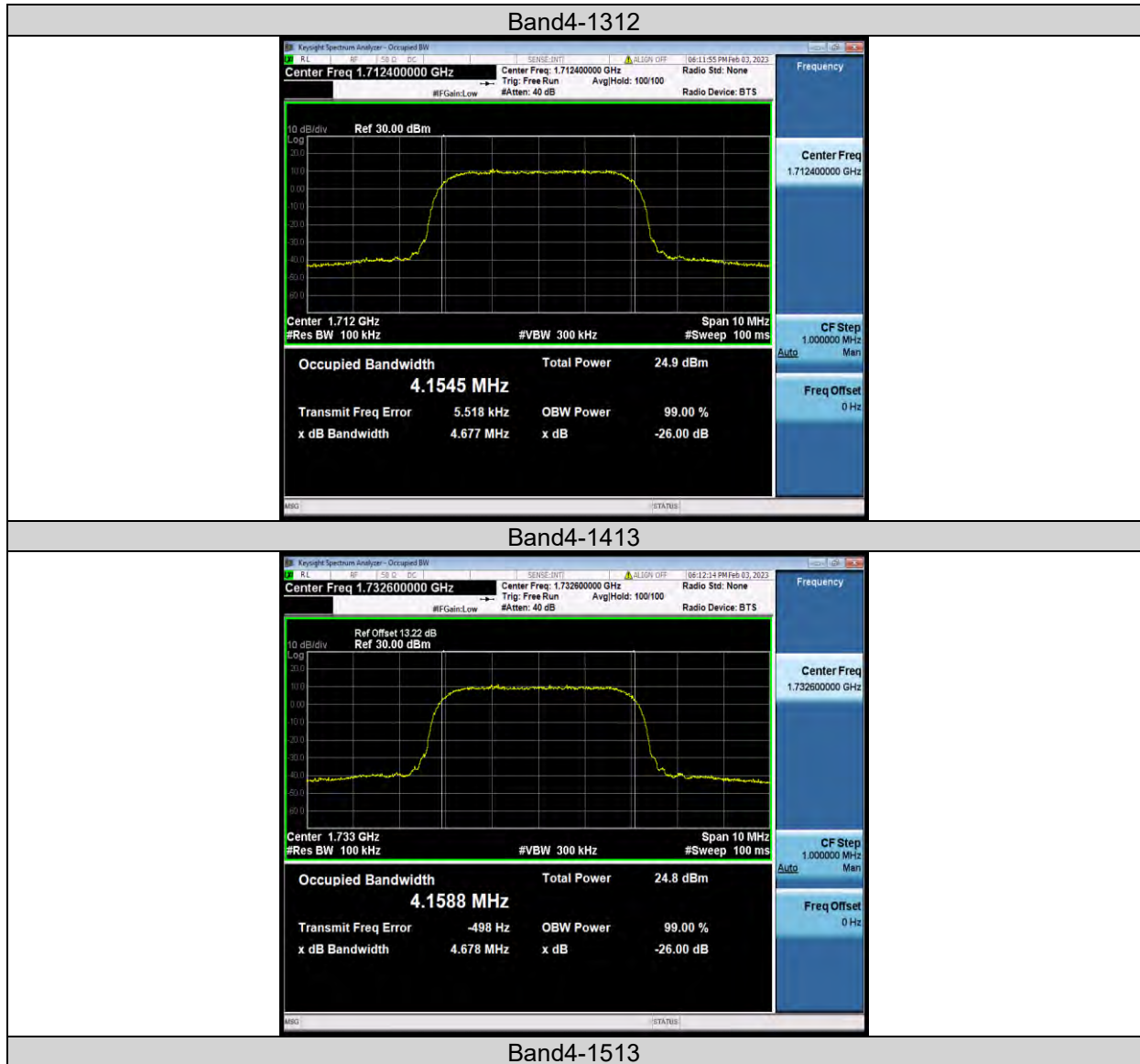
Test Report No.: W7L-P23010024RF06

26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
Band4	1312	4.1545	4.677	---	PASS
Band4	1413	4.1588	4.678	---	PASS
Band4	1513	4.1620	4.686	---	PASS

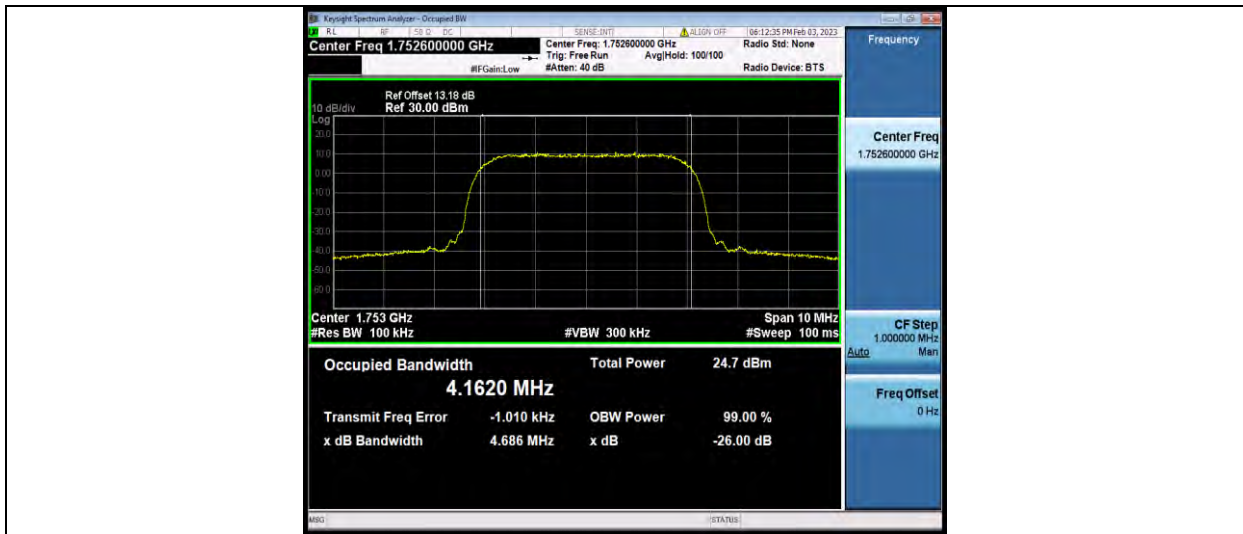
Test Graphs





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BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.95	-30.48	-13	PASS
Band4	1513	1755.08	-32.42	-13	PASS

Test Graphs





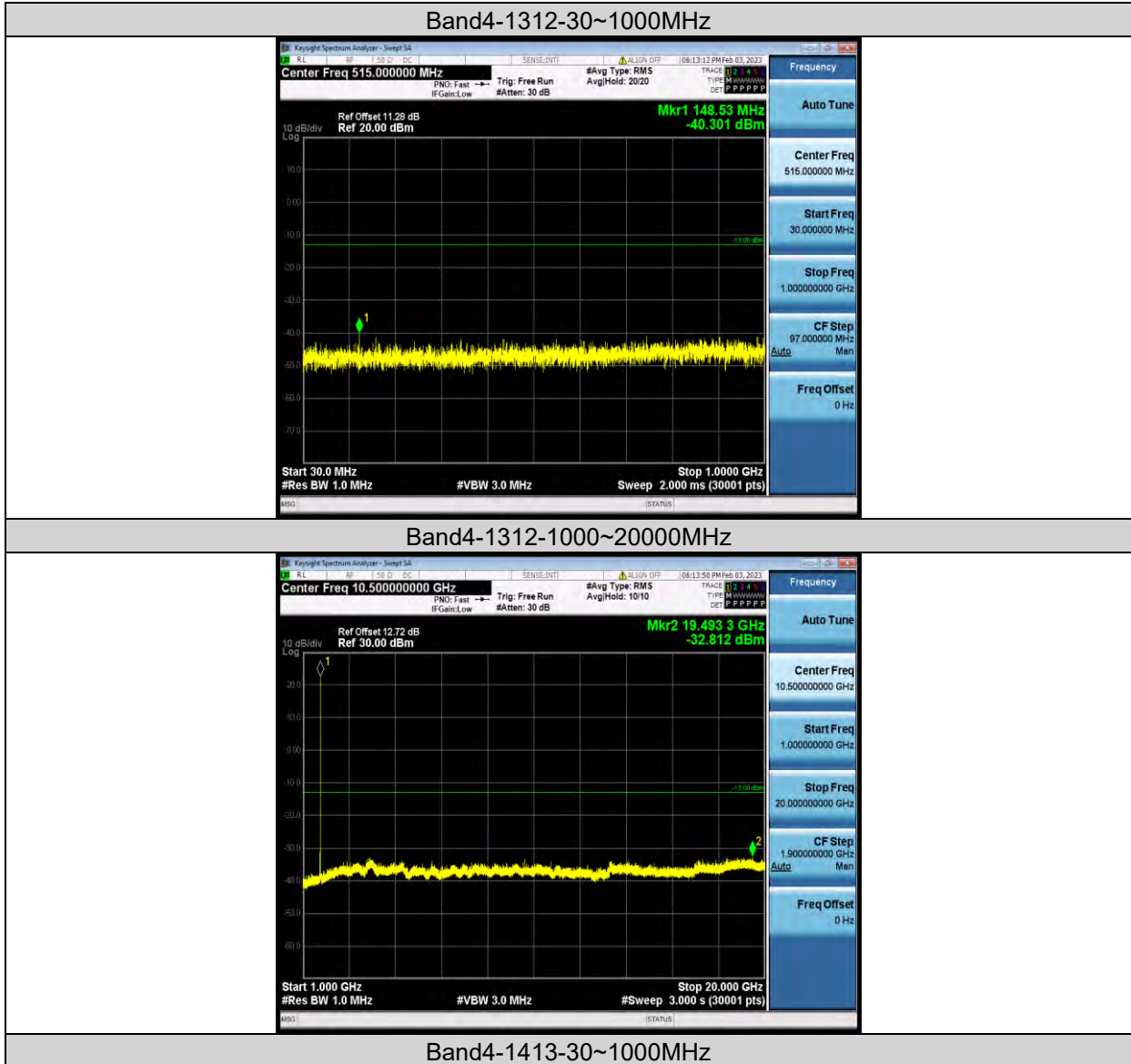
Test Report No.: W7L-P23010024RF06

CONDUCTED SPURIOUS EMISSION

Test Result

Band	Channel	Frequency Range (Mhz)	Frequency (dBm)	Result (dBm)	Limit (dBm)	Verdict
Band4	1312	30~1000MHz	148.53	-40.3	-13	PASS
Band4	1312	1000~20000MHz	19493.33	-32.81	-13	PASS
Band4	1413	30~1000MHz	880.17	-40.94	-13	PASS
Band4	1413	1000~20000MHz	19359.07	-32.42	-13	PASS
Band4	1513	30~1000MHz	906.88	-40.82	-13	PASS
Band4	1513	1000~20000MHz	19279.9	-32.33	-13	PASS

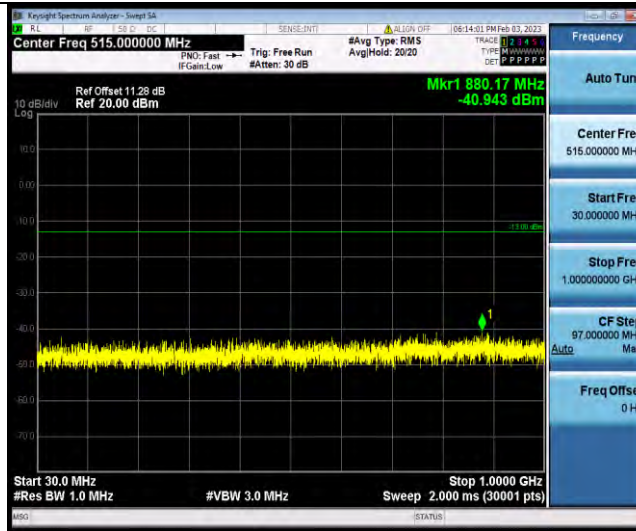
Test Graphs





BUREAU VERITAS

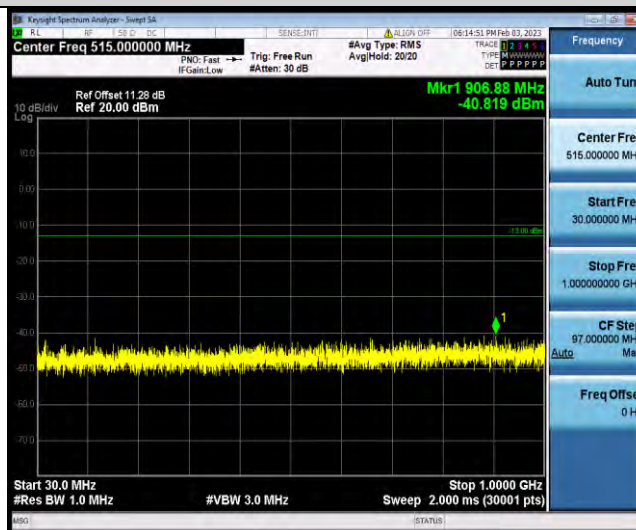
Test Report No.: W7L-P23010024RF06



Band4-1413-1000~20000MHz



Band4-1513-30~1000MHz



Band4-1513-1000~20000MHz