

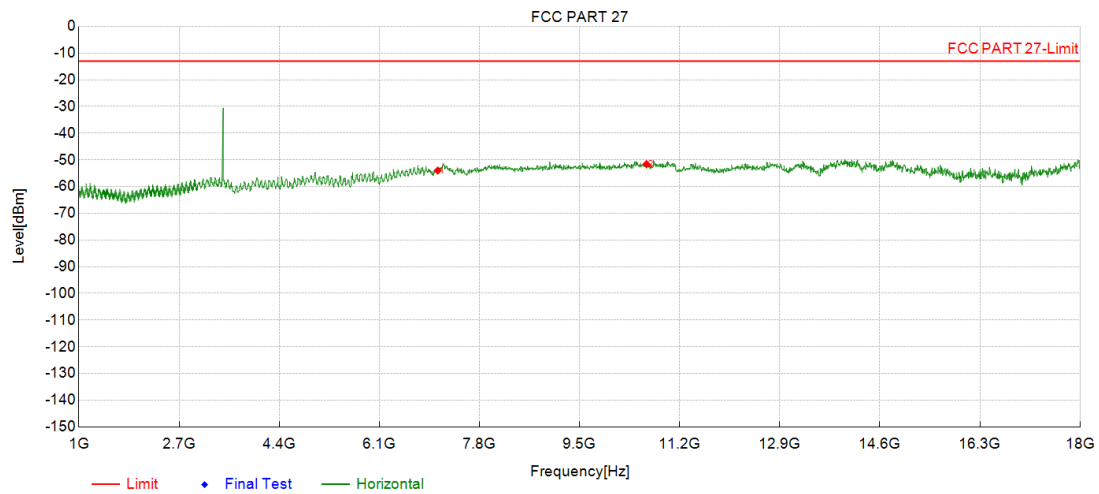


BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 43040
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7092.8186	-62.86	-54.00	8.86	-13.00	41.00	Horizontal	PK	PASS
2	10637.7275	-65.73	-51.59	14.14	-13.00	38.59	Horizontal	PK	PASS

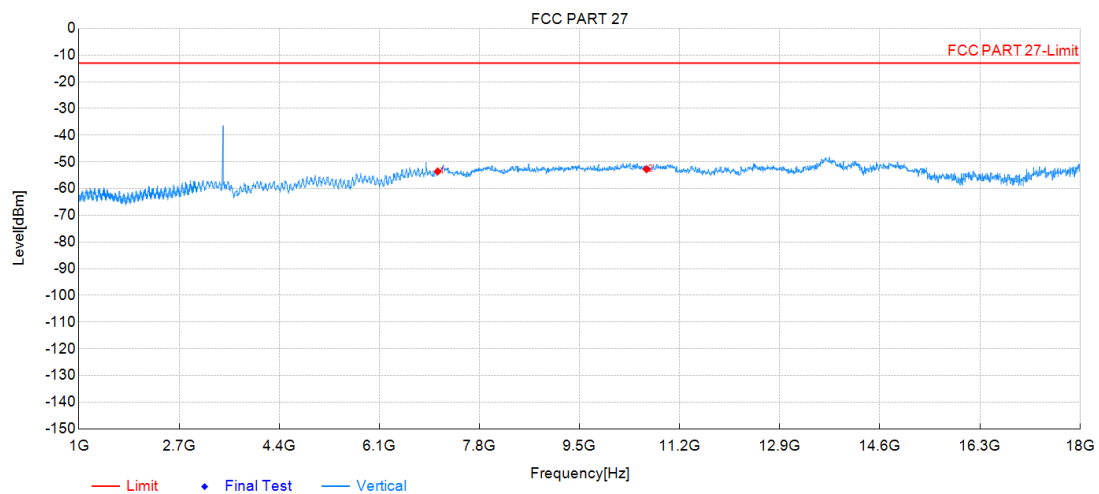


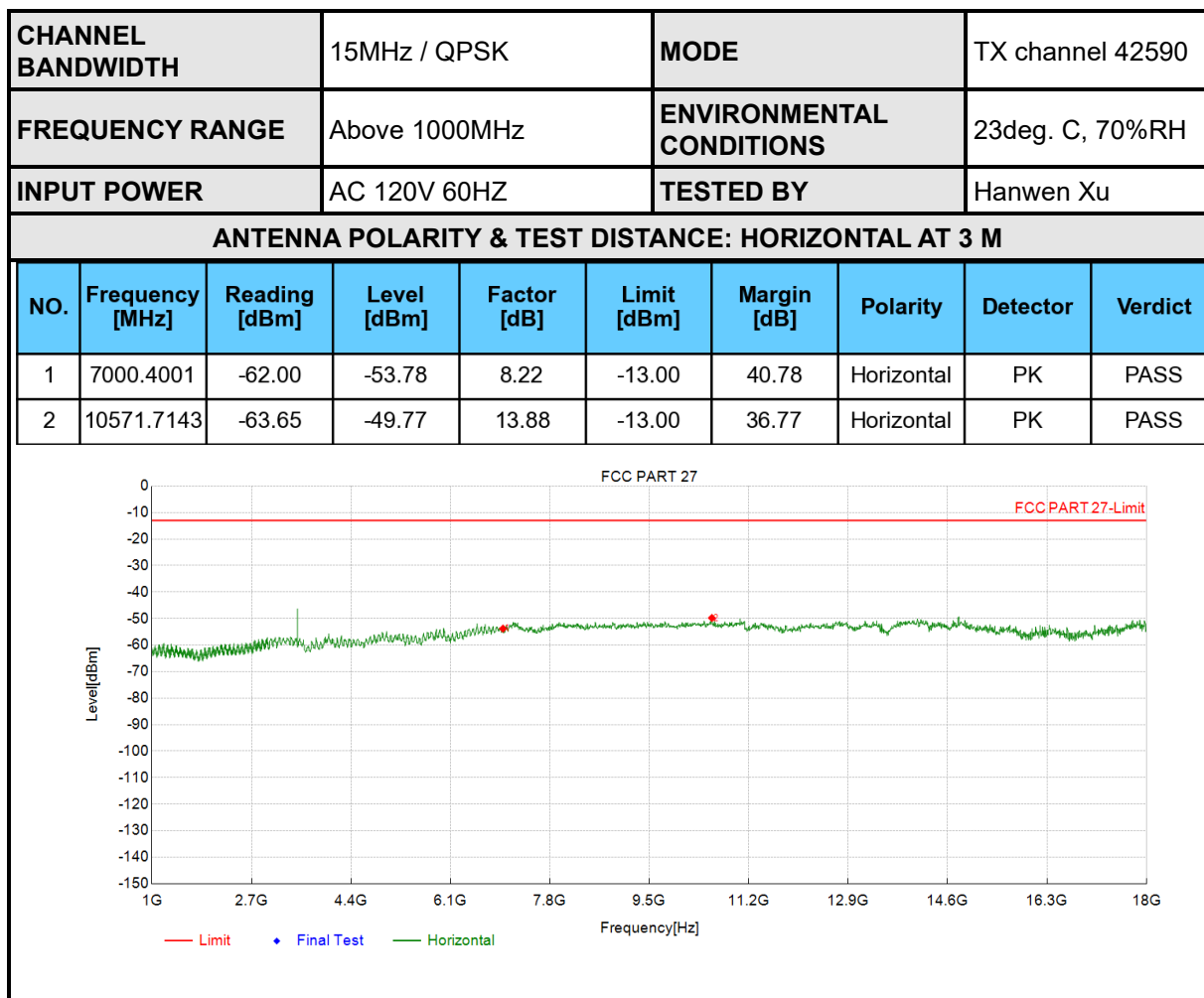


CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 43040
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	7092.8186	-62.64	-53.55	9.09	-13.00	40.55	Vertical	PK	PASS
2	10637.7275	-66.78	-52.71	14.07	-13.00	39.71	Vertical	PK	PASS



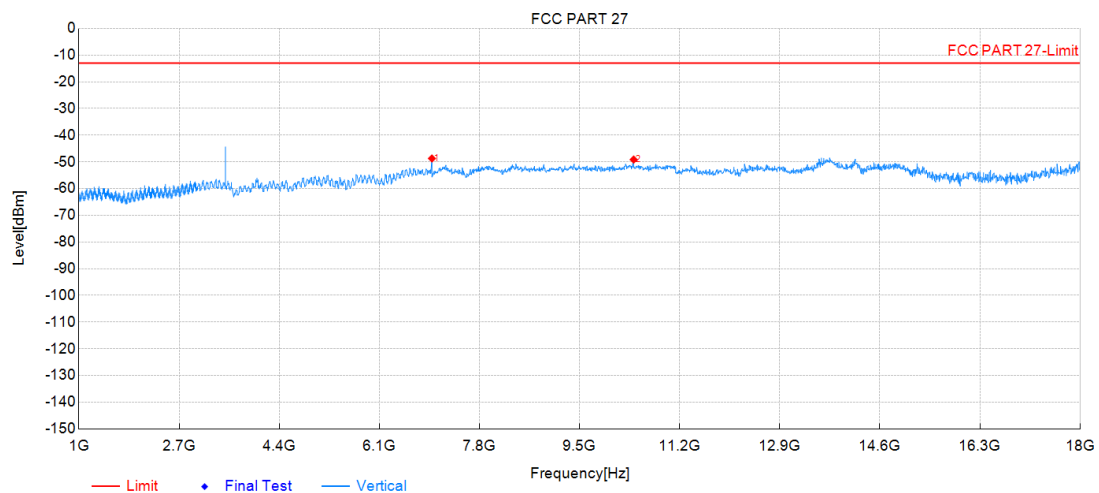


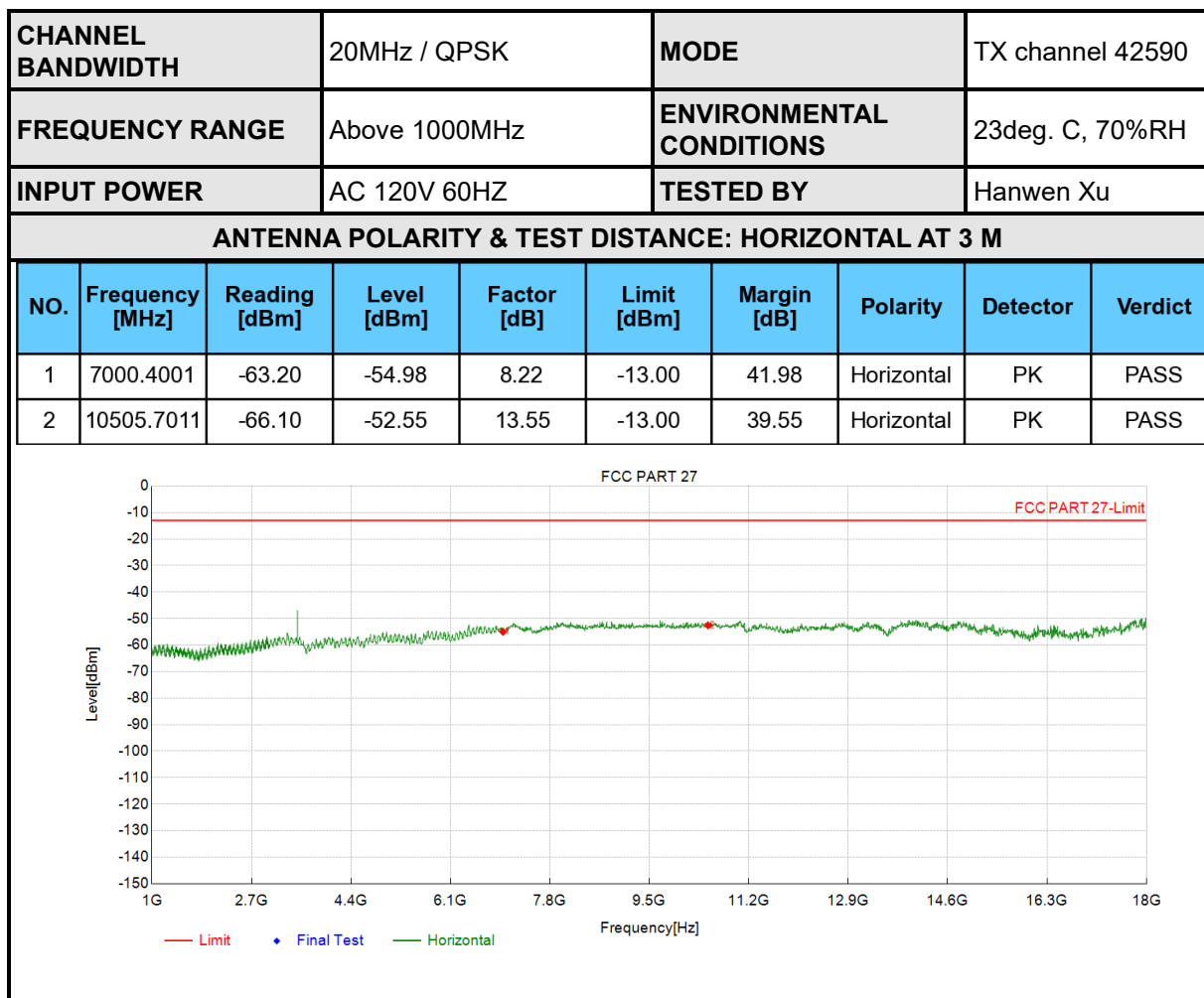


CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 42590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6993.7988	-57.14	-48.71	8.43	-13.00	35.71	Vertical	PK	PASS
2	10419.884	-62.81	-49.11	13.70	-13.00	36.11	Vertical	PK	PASS



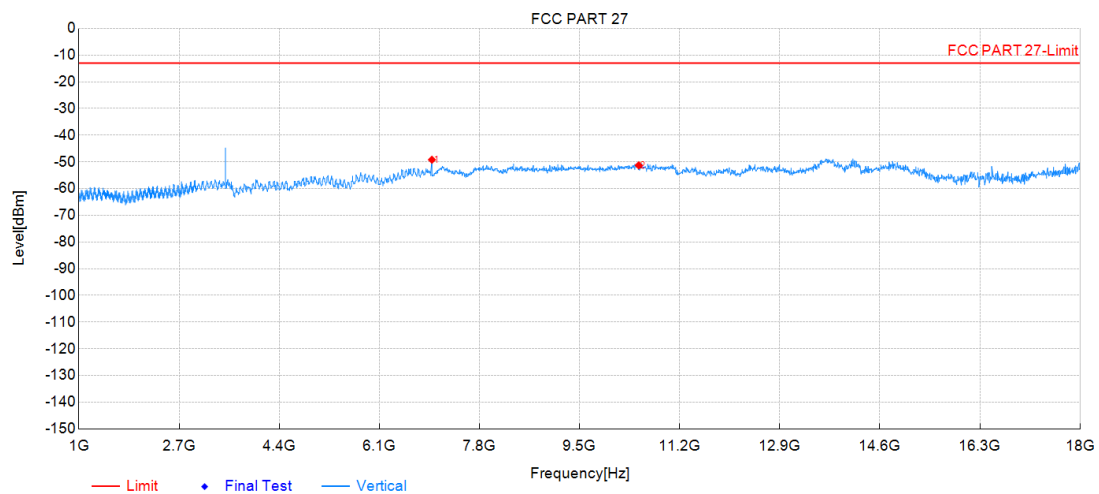




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 42590
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	6993.7988	-57.61	-49.18	8.43	-13.00	36.18	Vertical	PK	PASS
2	10505.7011	-65.06	-51.27	13.79	-13.00	38.27	Vertical	PK	PASS



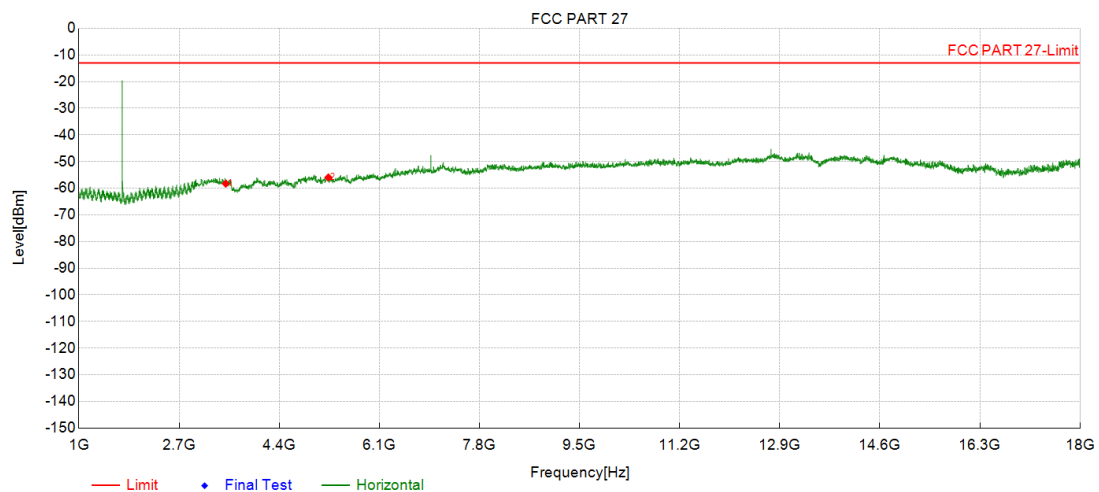


LTE Band66

CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-56.07	-58.26	-2.19	-13.00	45.26	Horizontal	PK	PASS
2	5235.4471	-59.53	-55.95	3.58	-13.00	42.95	Horizontal	PK	PASS

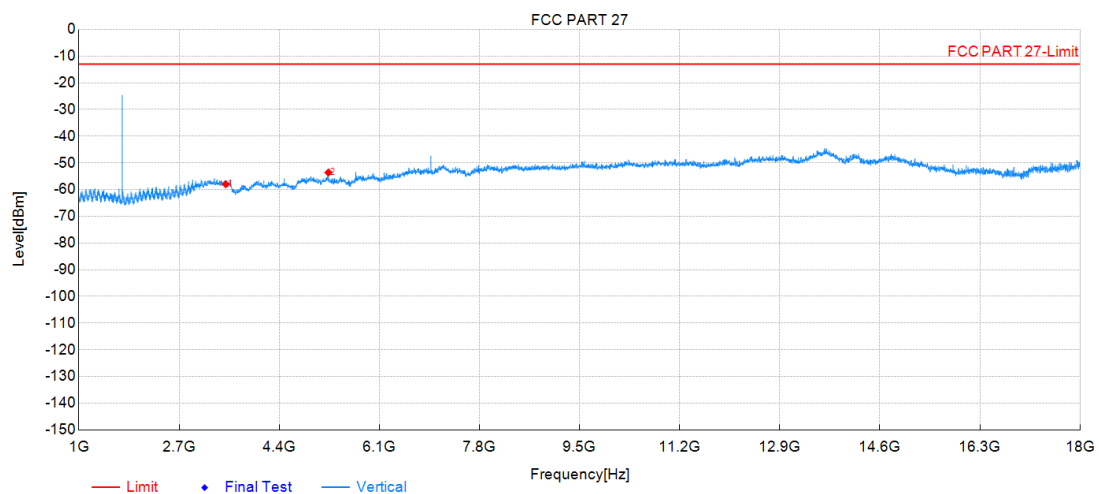




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.76	-57.97	-2.21	-13.00	44.97	Vertical	PK	PASS
2	5235.4471	-57.54	-53.60	3.94	-13.00	40.60	Vertical	PK	PASS

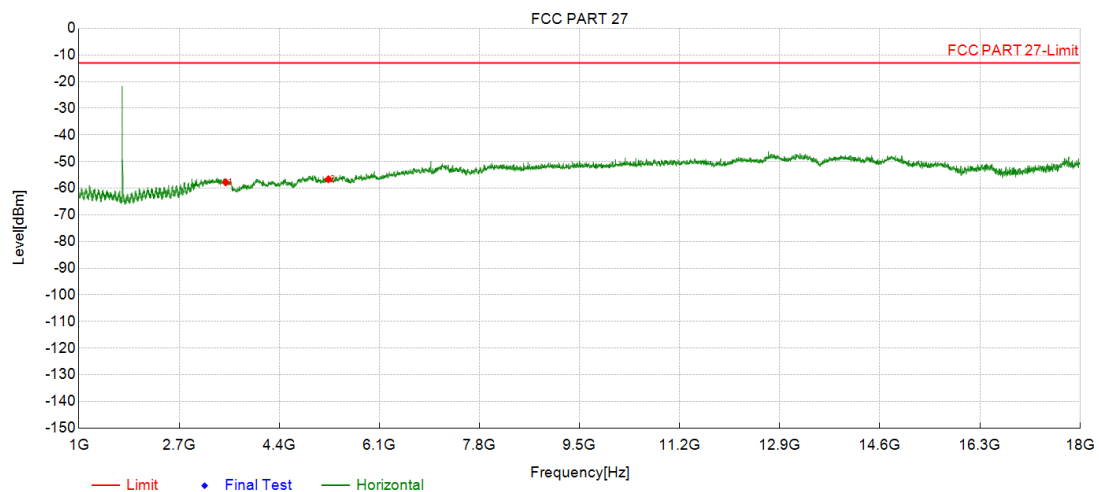


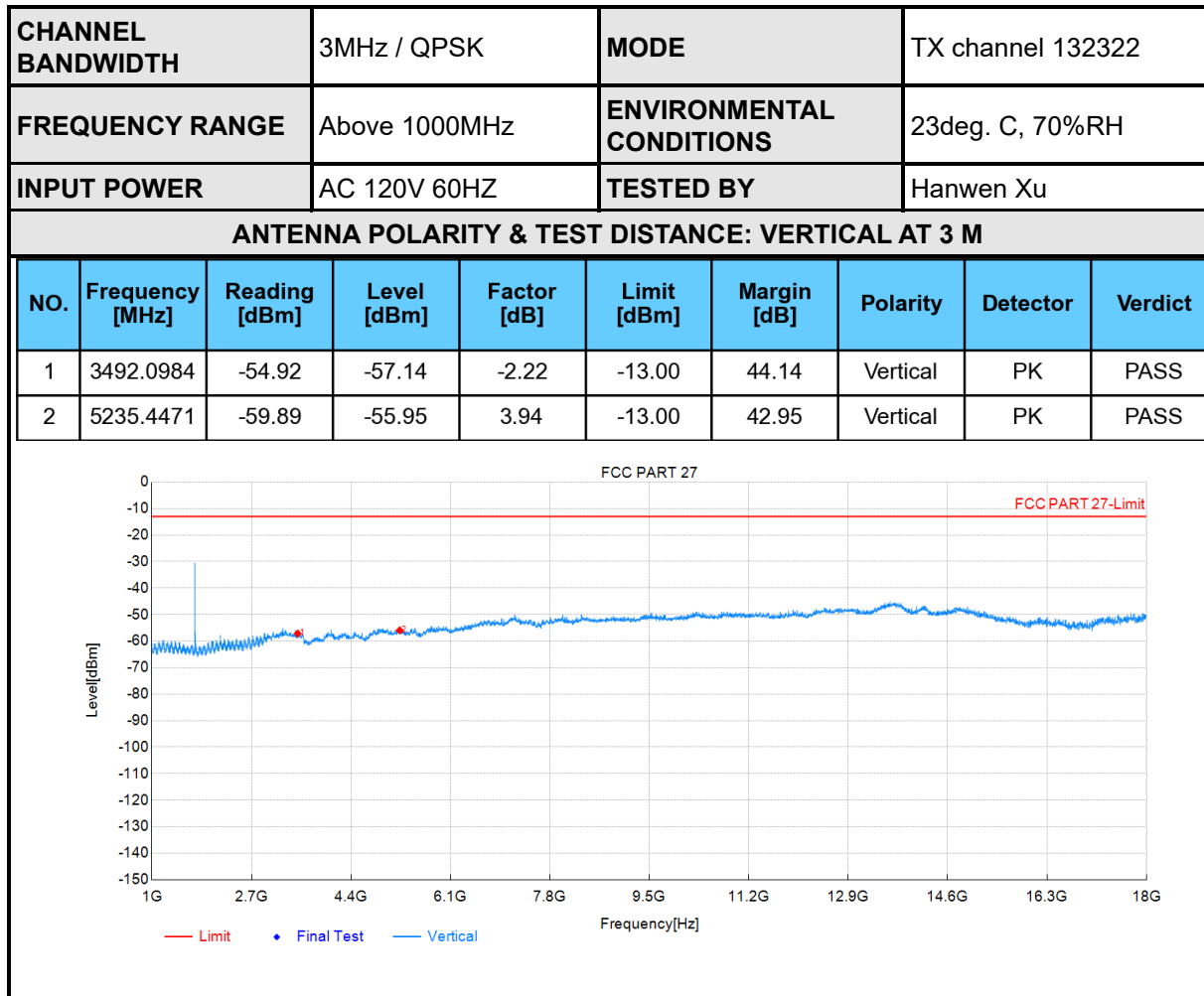


CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.59	-57.78	-2.19	-13.00	44.78	Horizontal	PK	PASS
2	5235.4471	-60.20	-56.62	3.58	-13.00	43.62	Horizontal	PK	PASS



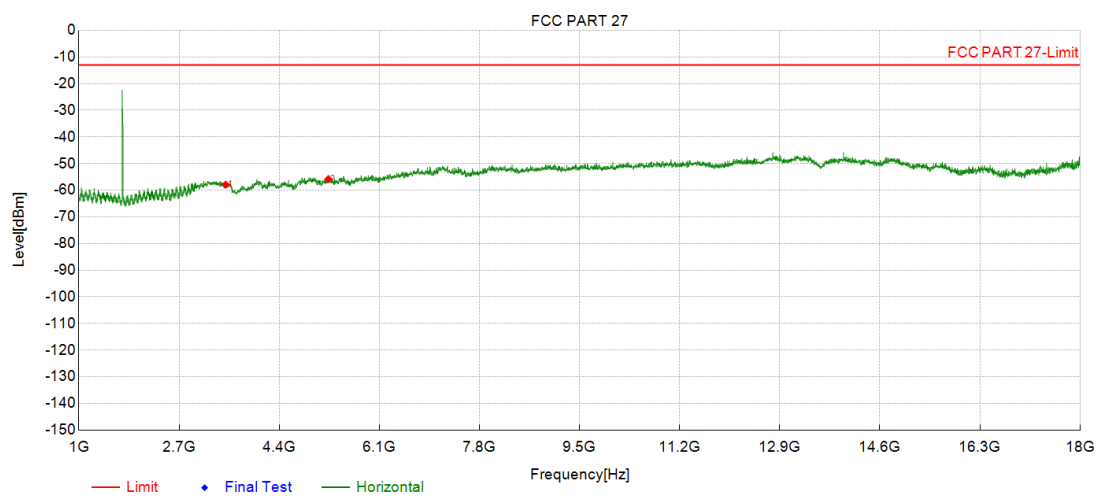




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.75	-57.94	-2.19	-13.00	44.94	Horizontal	PK	PASS
2	5235.4471	-59.39	-55.81	3.58	-13.00	42.81	Horizontal	PK	PASS

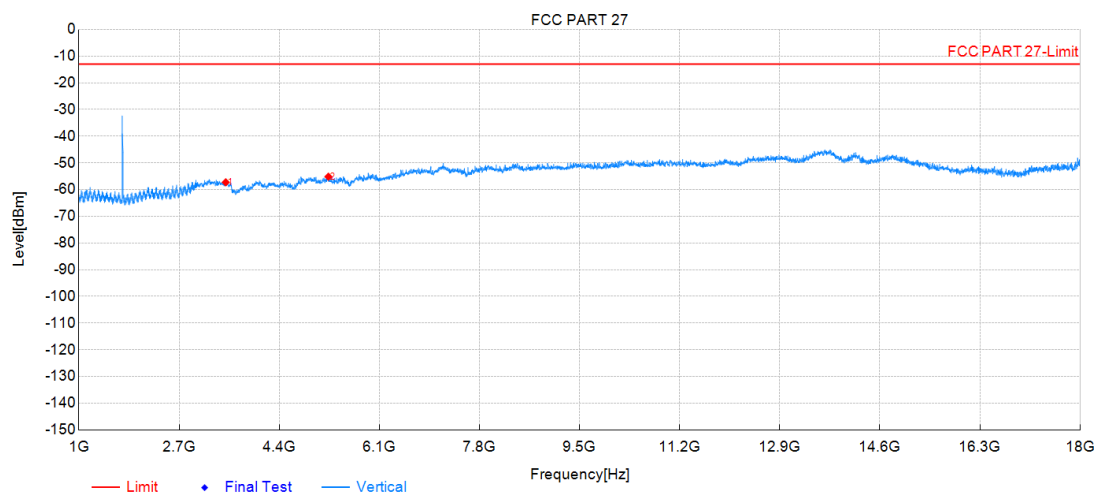




CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.04	-57.26	-2.22	-13.00	44.26	Vertical	PK	PASS
2	5235.4471	-59.09	-55.15	3.94	-13.00	42.15	Vertical	PK	PASS

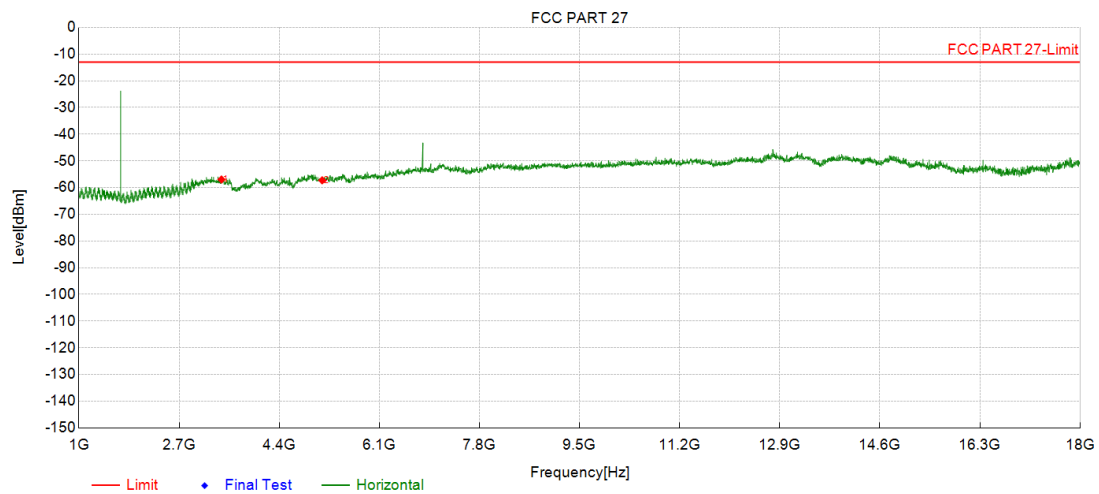


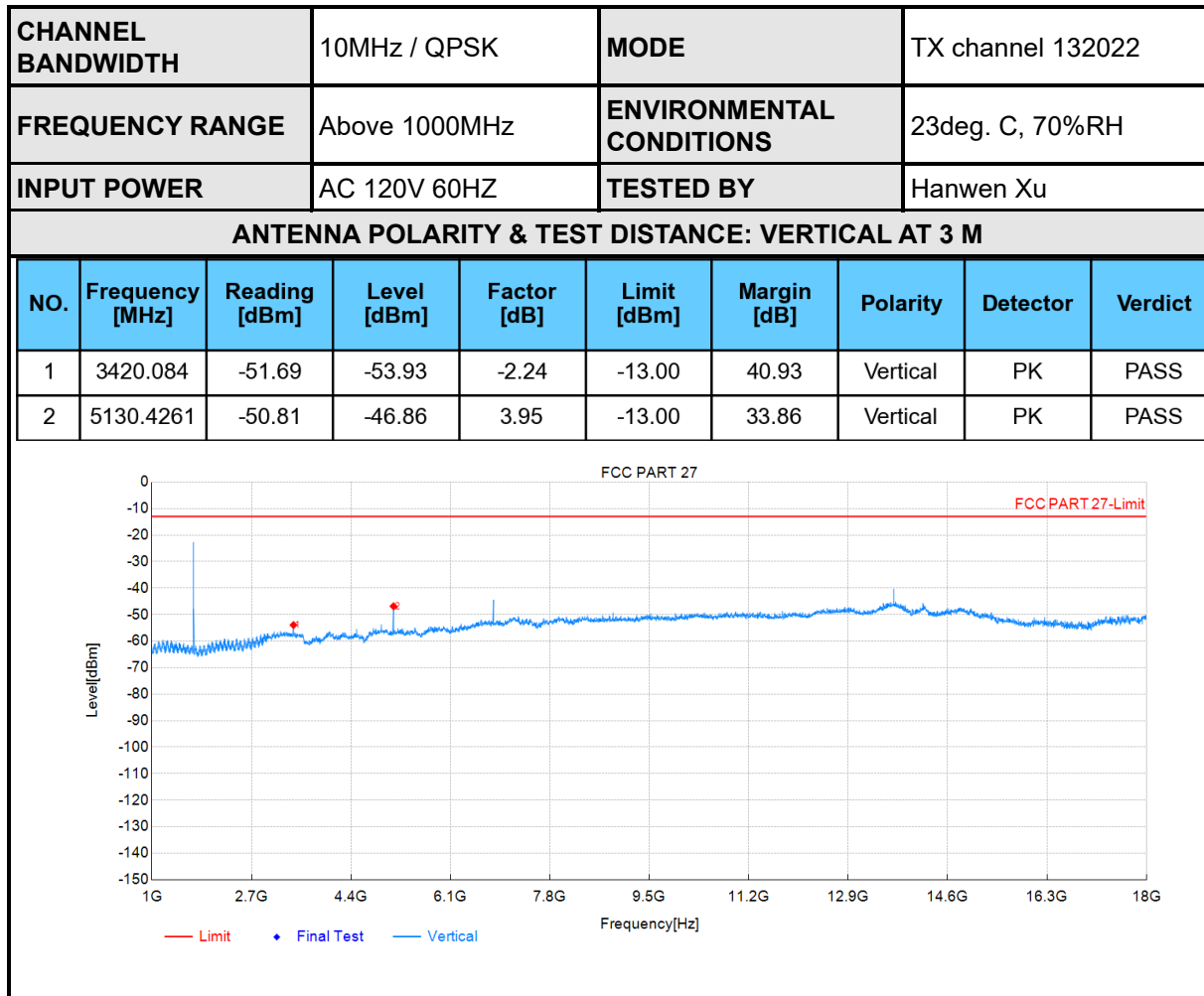


CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 132022
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3420.084	-54.80	-56.95	-2.15	-13.00	43.95	Horizontal	PK	PASS
2	5130.4261	-60.89	-57.26	3.63	-13.00	44.26	Horizontal	PK	PASS





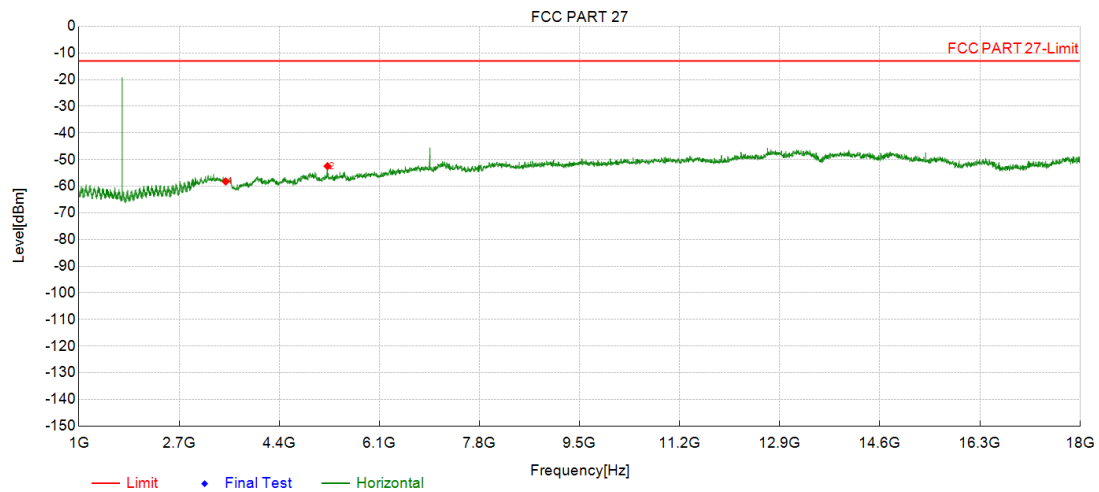


BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-56.01	-58.20	-2.19	-13.00	45.20	Horizontal	PK	PASS
2	5220.4441	-55.99	-52.46	3.53	-13.00	39.46	Horizontal	PK	PASS

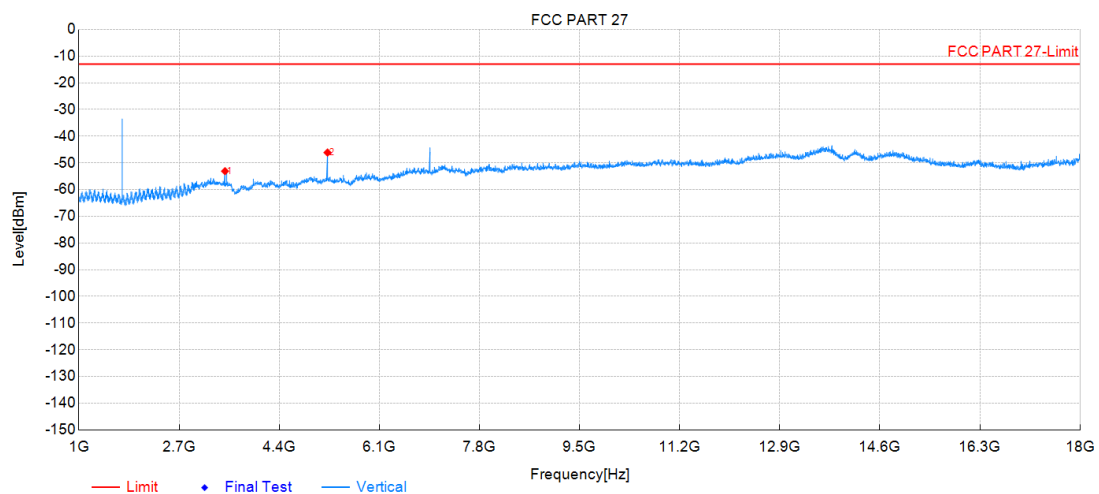




CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3480.096	-50.87	-53.09	-2.22	-13.00	40.09	Vertical	PK	PASS
2	5220.4441	-50.05	-46.11	3.94	-13.00	33.11	Vertical	PK	PASS



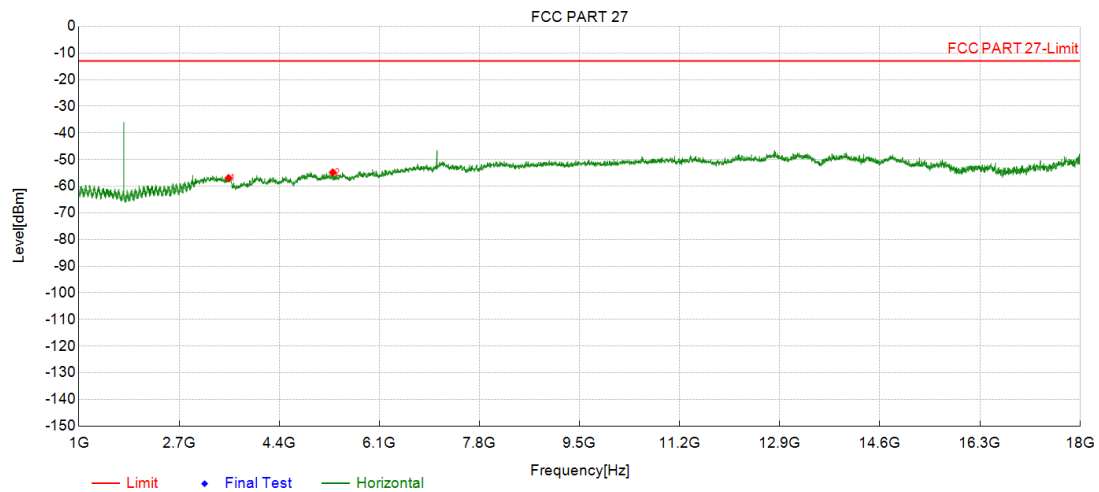


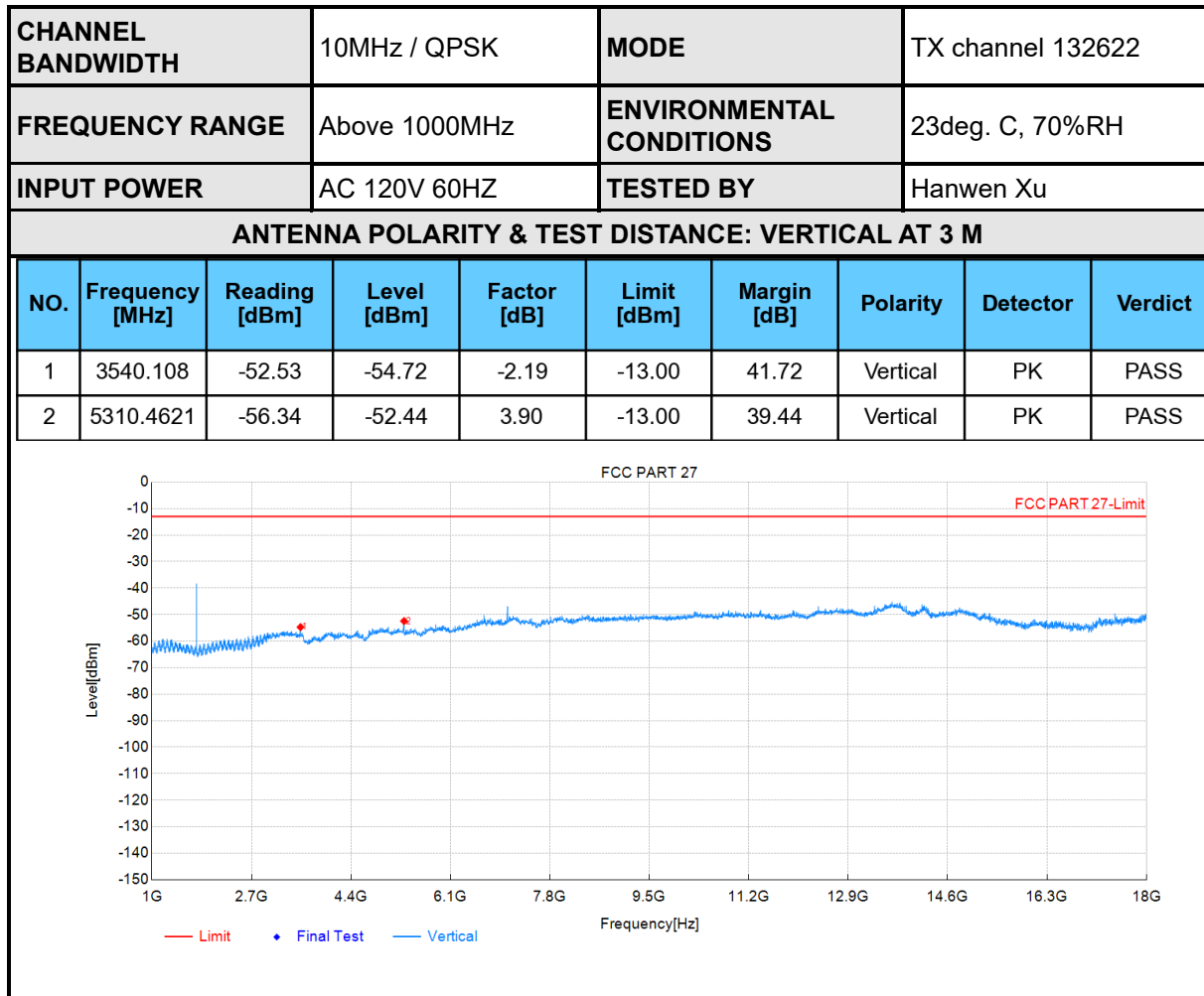
BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04

CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 132622
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3540.108	-54.70	-56.91	-2.21	-13.00	43.91	Horizontal	PK	PASS
2	5310.4621	-58.60	-54.81	3.79	-13.00	41.81	Horizontal	PK	PASS



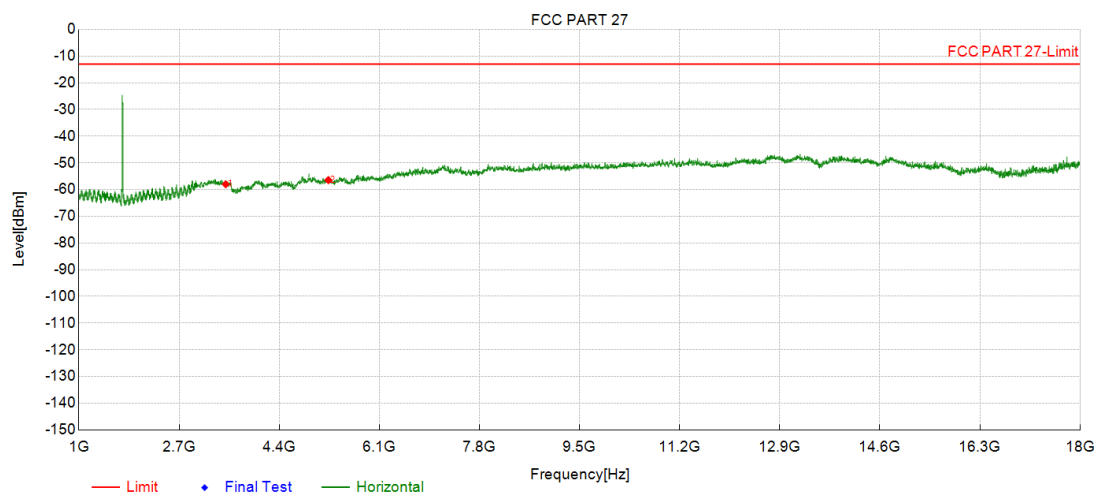




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.80	-57.99	-2.19	-13.00	44.99	Horizontal	PK	PASS
2	5235.4471	-60.01	-56.43	3.58	-13.00	43.43	Horizontal	PK	PASS

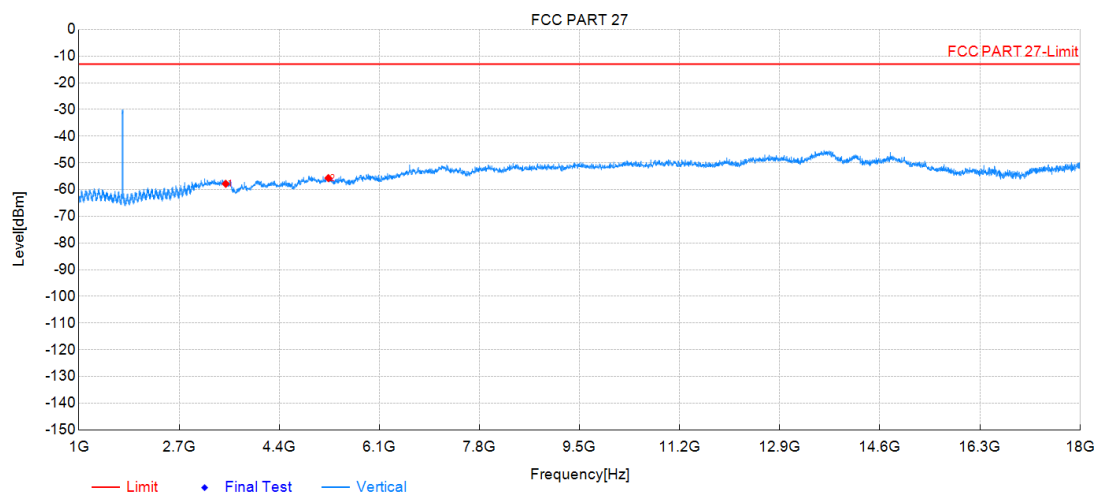




CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.61	-57.82	-2.21	-13.00	44.82	Vertical	PK	PASS
2	5235.4471	-59.62	-55.68	3.94	-13.00	42.68	Vertical	PK	PASS

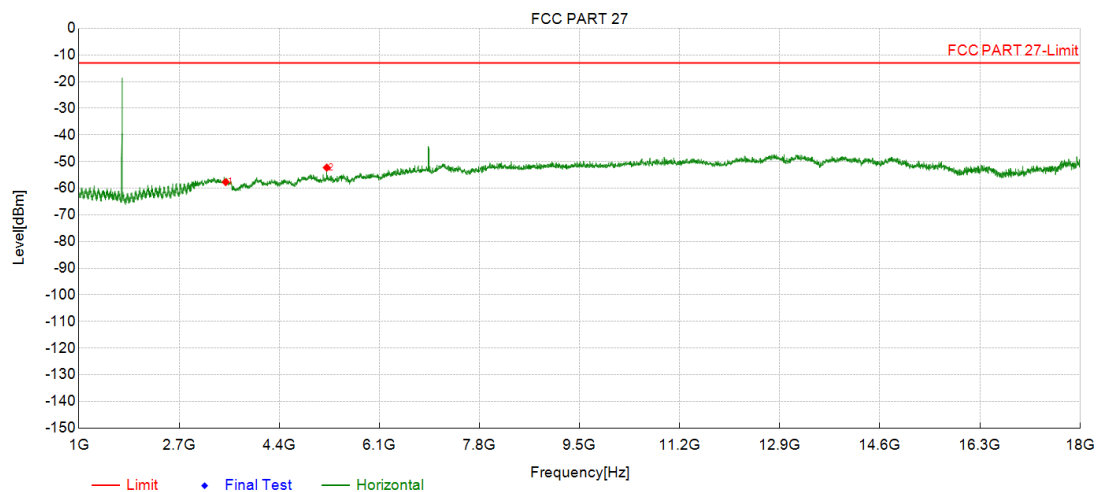




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.50	-57.69	-2.19	-13.00	44.69	Horizontal	PK	PASS
2	5208.4417	-55.76	-52.26	3.50	-13.00	39.26	Horizontal	PK	PASS

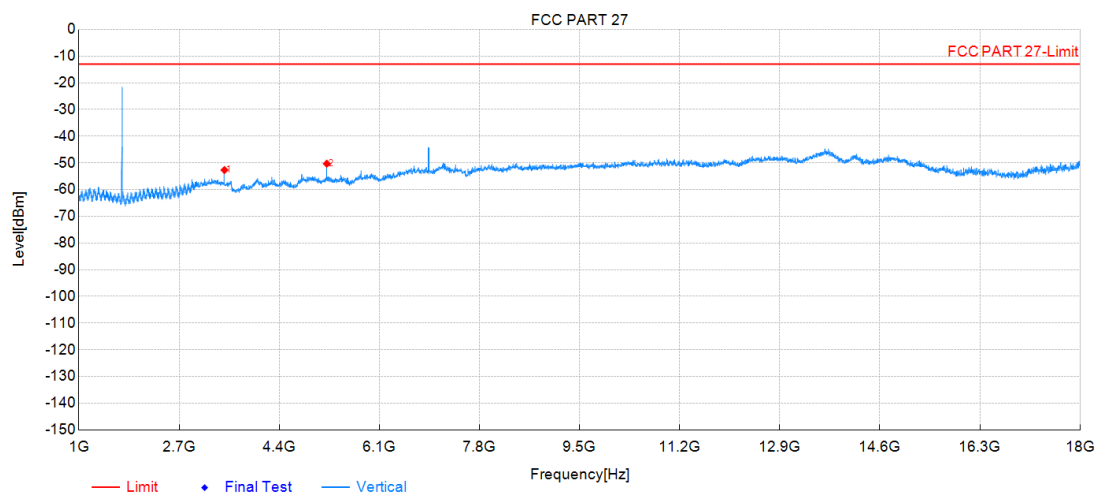




CHANNEL BANDWIDTH	20MHz / QPSK	MODE	TX channel 132322
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3471.0942	-50.44	-52.66	-2.22	-13.00	39.66	Vertical	PK	PASS
2	5208.4417	-54.23	-50.28	3.95	-13.00	37.28	Vertical	PK	PASS





BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04

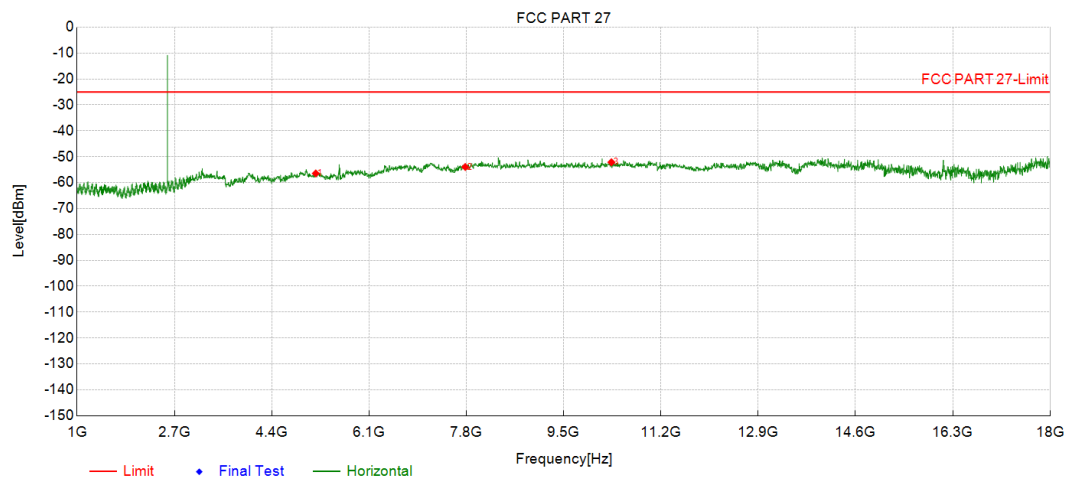
Redcap mode

NR BAND N41

N41			
CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 518598
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

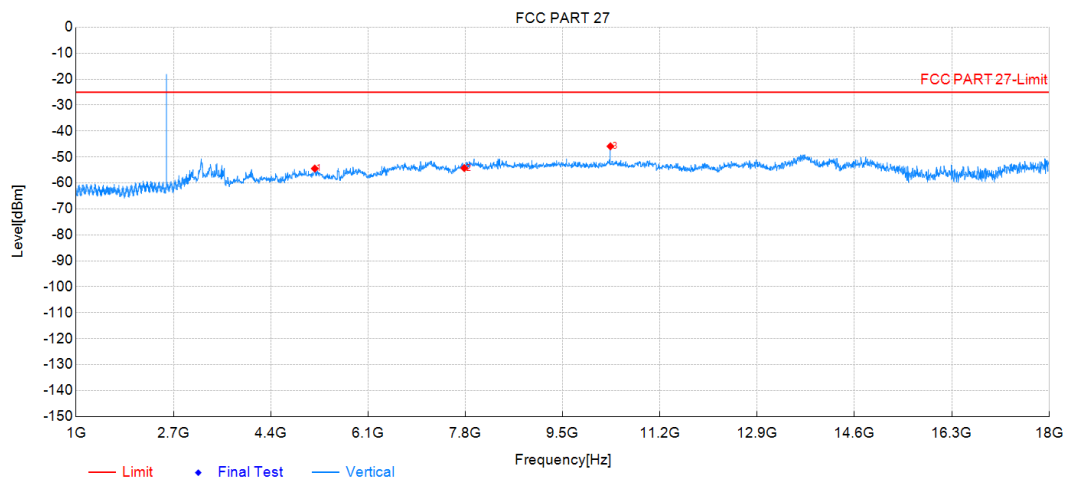
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5170.034	-59.99	-56.45	3.54	-25.00	31.45	Horizontal	PK	PASS
2	7781.7564	-63.04	-53.96	9.08	-25.00	28.96	Horizontal	PK	PASS
3	10335.8672	-65.31	-52.13	13.18	-25.00	27.13	Horizontal	PK	PASS





CHANNEL BANDWIDTH			10MHz/QPSK		MODE			TX channel 518598		
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH		
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict	
1	5170.034	-58.39	-54.43	3.96	-25.00	29.43	Vertical	PK	PASS	
2	7781.7564	-63.89	-53.88	10.01	-25.00	28.88	Vertical	PK	PASS	
3	10335.8672	-59.58	-45.86	13.72	-25.00	20.86	Vertical	PK	PASS	

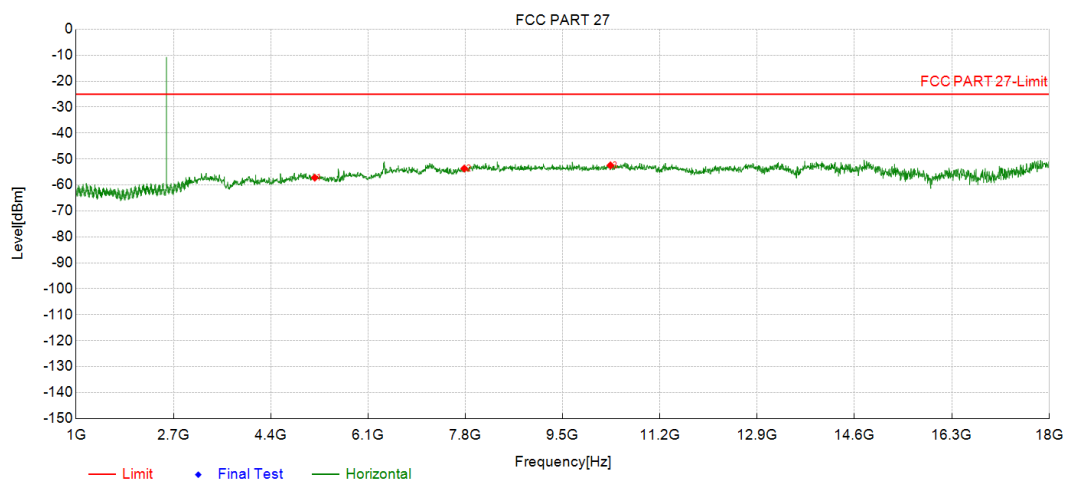


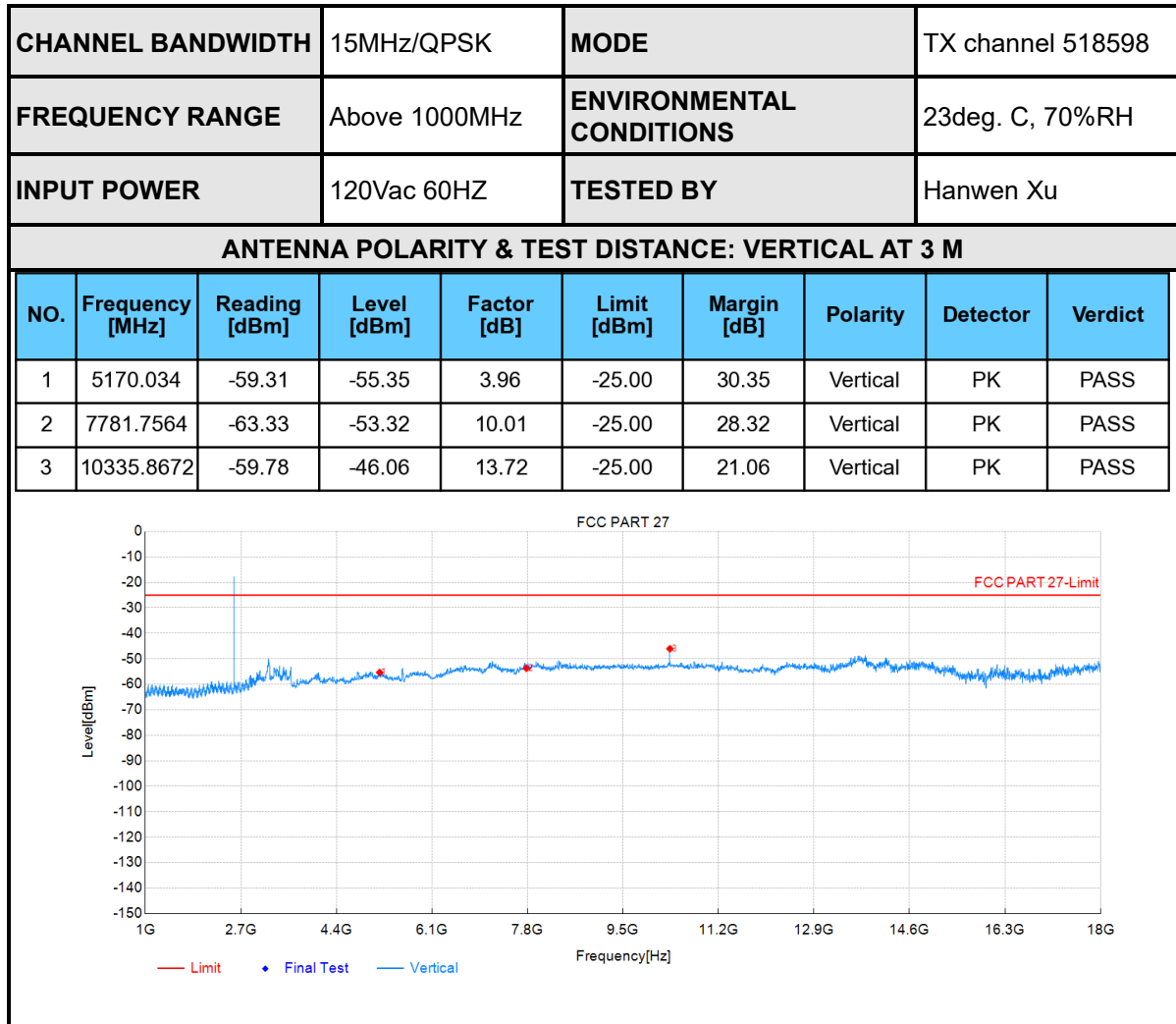


CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 518598
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5170.034	-60.73	-57.19	3.54	-25.00	32.19	Horizontal	PK	PASS
2	7781.7564	-62.73	-53.66	9.07	-25.00	28.66	Horizontal	PK	PASS
3	10335.8672	-65.63	-52.45	13.18	-25.00	27.45	Horizontal	PK	PASS



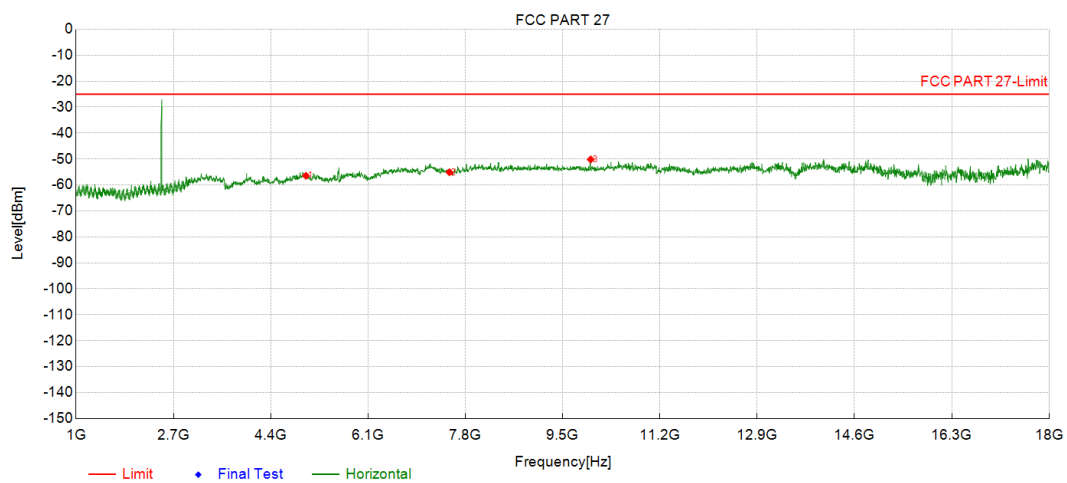




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 501204
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

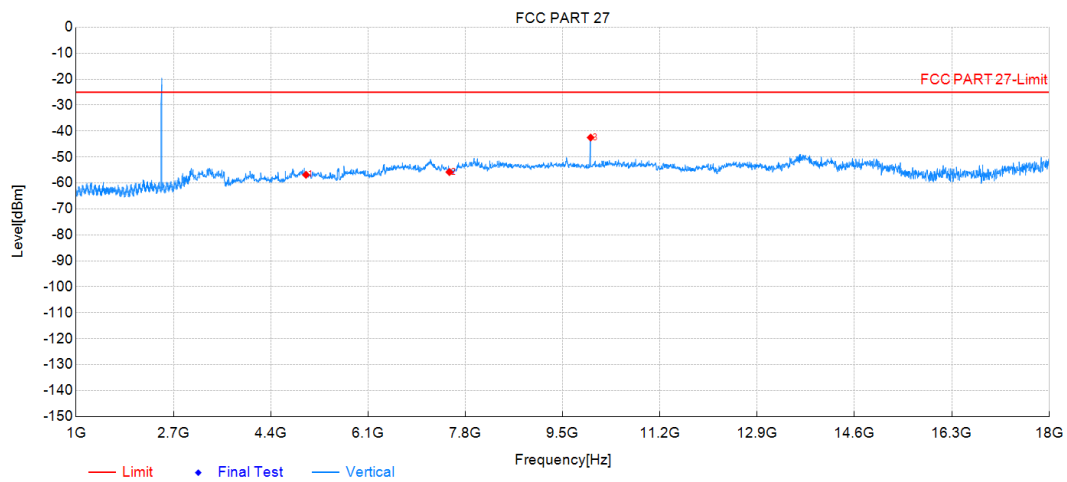
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5016.4033	-60.37	-56.46	3.91	-25.00	31.46	Horizontal	PK	PASS
2	7522.5045	-63.80	-55.09	8.71	-25.00	30.09	Horizontal	PK	PASS
3	9990.198	-62.69	-50.15	12.54	-25.00	25.15	Horizontal	PK	PASS





CHANNEL BANDWIDTH			20MHz/QPSK		MODE			TX channel 501204	
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH	
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu	
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5016.4033	-60.81	-56.84	3.97	-25.00	31.84	Vertical	PK	PASS
2	7522.5045	-64.20	-55.49	8.71	-25.00	30.49	Vertical	PK	PASS
3	9990.198	-55.38	-42.50	12.88	-25.00	17.50	Vertical	PK	PASS

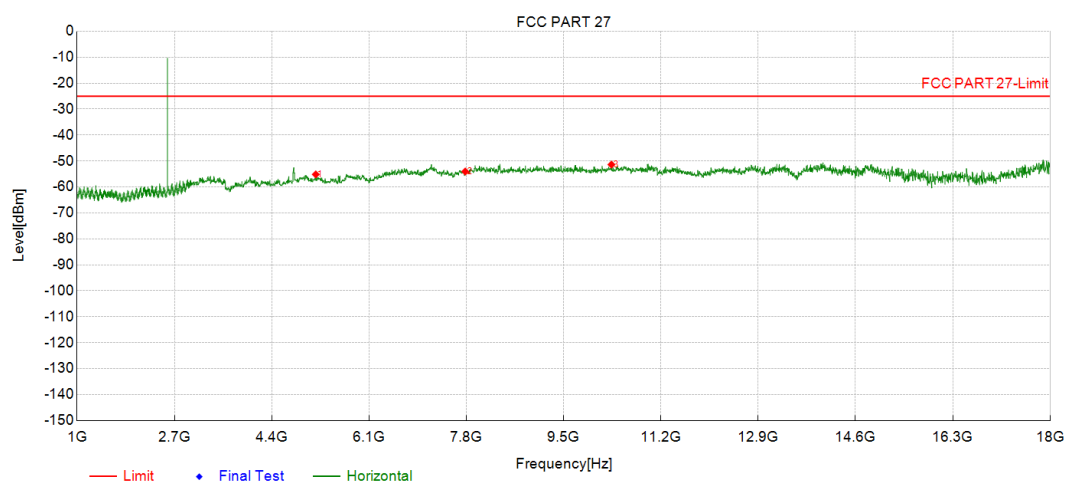




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 518598
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

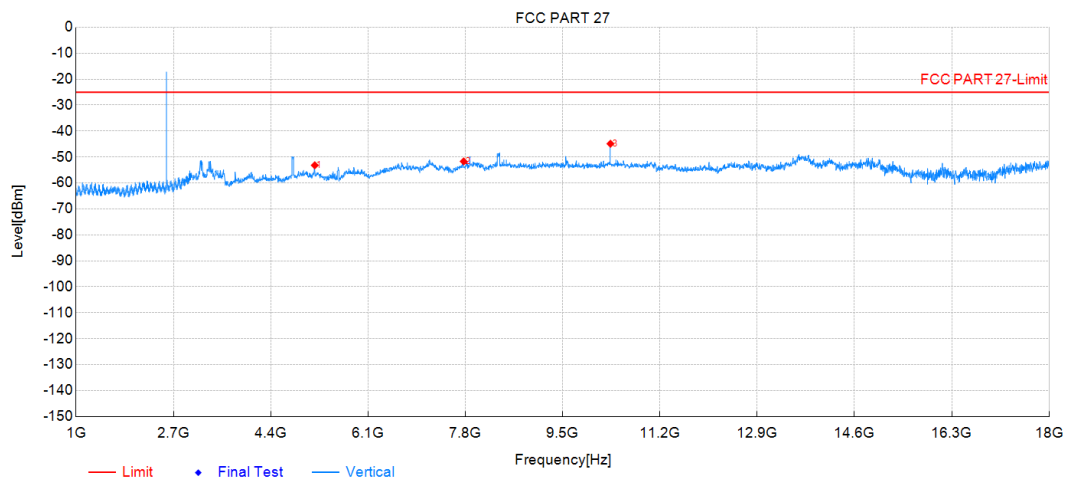
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5170.034	-58.70	-55.16	3.54	-25.00	30.16	Horizontal	PK	PASS
2	7781.7564	-63.11	-54.04	9.07	-25.00	29.04	Horizontal	PK	PASS
3	10335.8672	-64.54	-51.36	13.18	-25.00	26.36	Horizontal	PK	PASS





CHANNEL BANDWIDTH			20MHz/QPSK		MODE			TX channel 518598		
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH		
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict	
1	5170.034	-57.14	-53.18	3.96	-25.00	28.18	Vertical	PK	PASS	
2	7772.1544	-61.58	-51.68	9.90	-25.00	26.68	Vertical	PK	PASS	
3	10335.8672	-58.59	-44.87	13.72	-25.00	19.87	Vertical	PK	PASS	

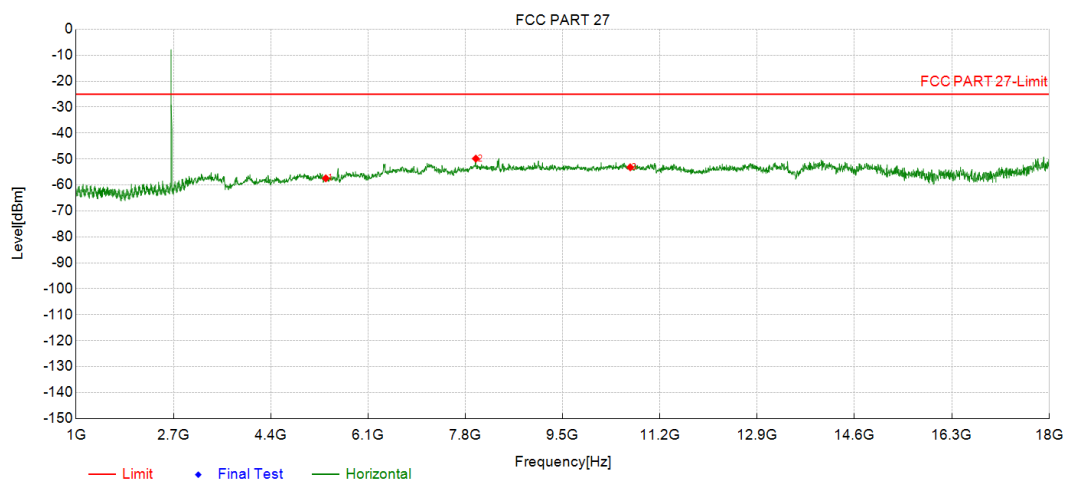




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 535998
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

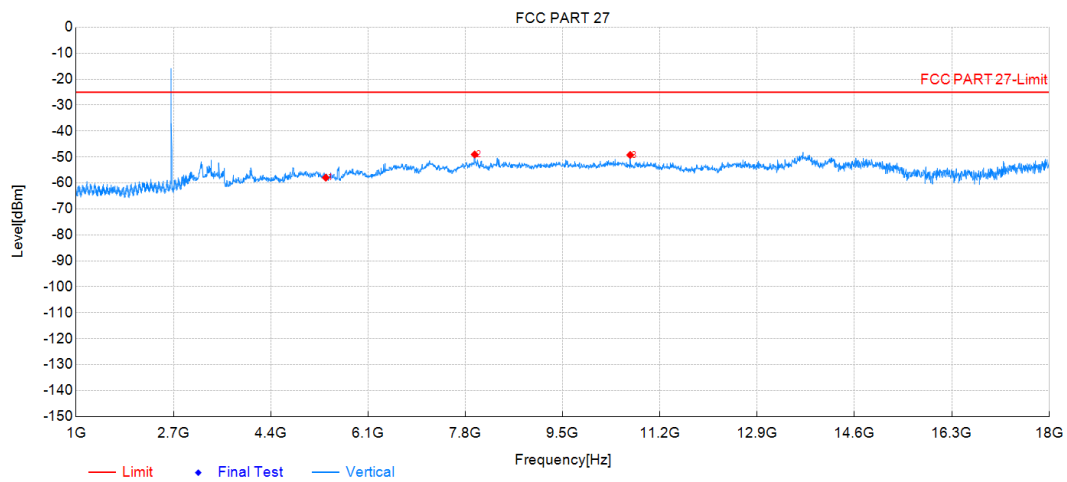
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

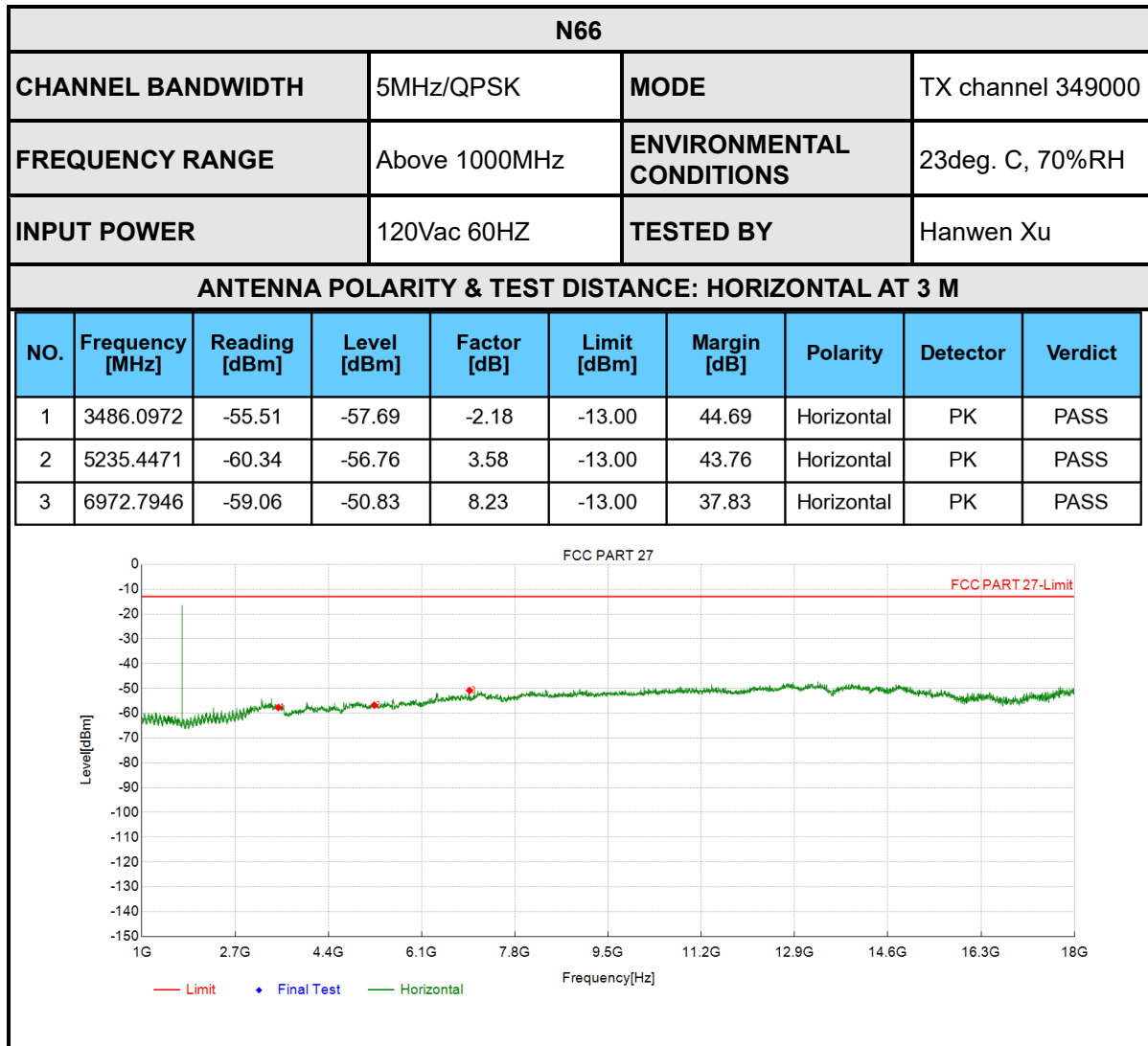
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5362.0724	-61.38	-57.43	3.95	-25.00	32.43	Horizontal	PK	PASS
2	7983.3967	-60.04	-49.84	10.20	-25.00	24.84	Horizontal	PK	PASS
3	10681.5363	-67.42	-53.17	14.25	-25.00	28.17	Horizontal	PK	PASS





CHANNEL BANDWIDTH			20MHz/QPSK		MODE			TX channel 535998	
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH	
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu	
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	5362.0724	-61.41	-57.54	3.87	-25.00	32.54	Vertical	PK	PASS
2	7964.1928	-59.41	-49.02	10.39	-25.00	24.02	Vertical	PK	PASS
3	10681.5363	-63.51	-49.21	14.30	-25.00	24.21	Vertical	PK	PASS



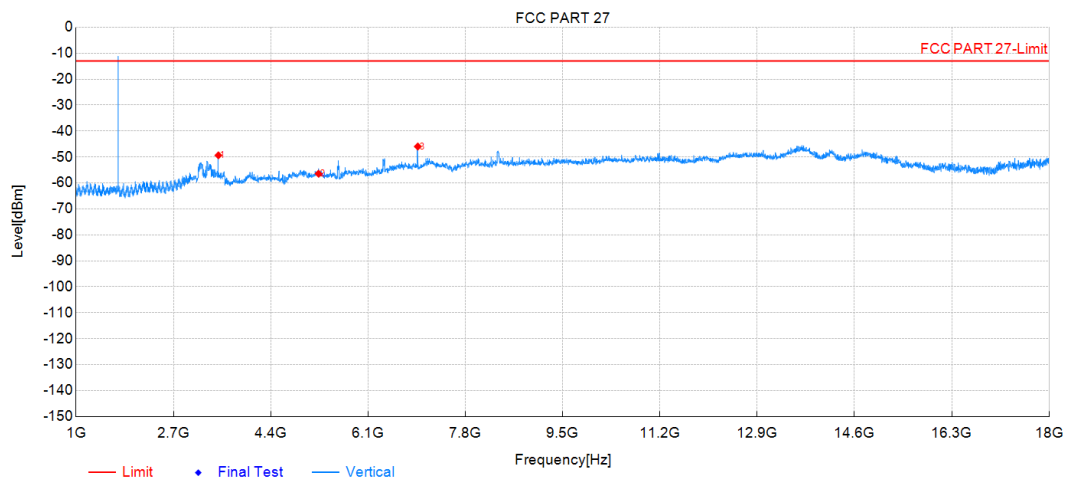




CHANNEL BANDWIDTH	5MHz/QPSK	MODE	TX channel 349000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3486.0972	-47.13	-49.34	-2.21	-13.00	36.34	Vertical	PK	PASS
2	5235.4471	-60.35	-56.42	3.93	-13.00	43.42	Vertical	PK	PASS
3	6969.794	-54.37	-45.94	8.43	-13.00	32.94	Vertical	PK	PASS

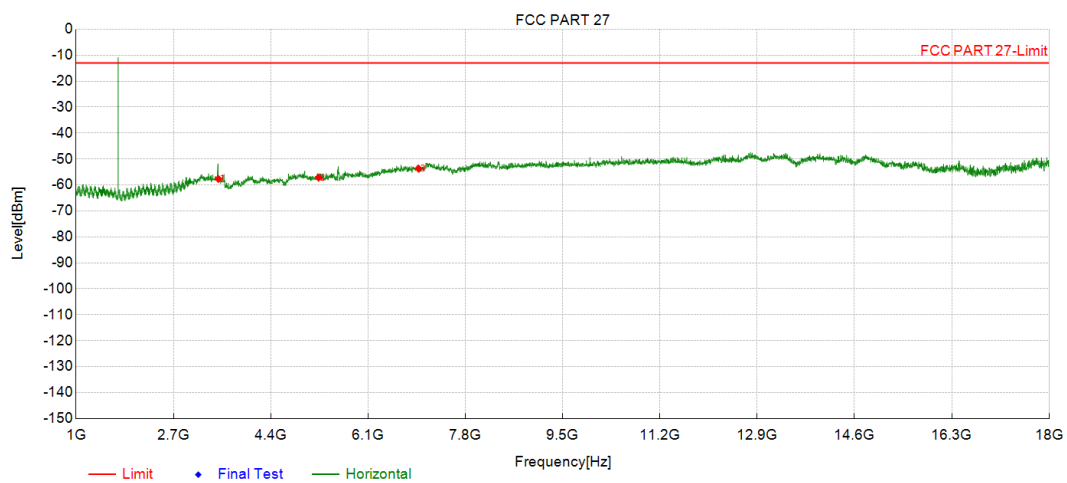




CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 349000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

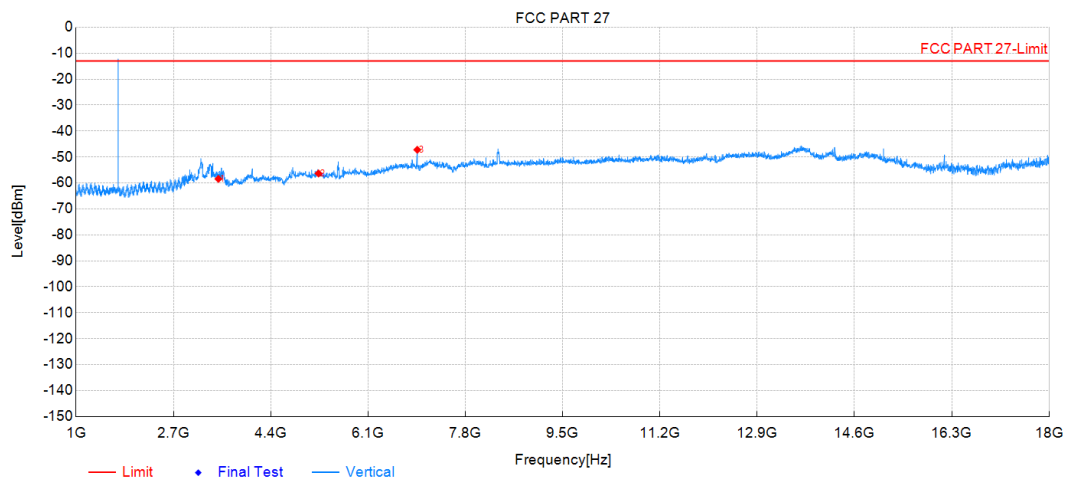
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3486.0972	-55.49	-57.67	-2.18	-13.00	44.67	Horizontal	PK	PASS
2	5235.4471	-60.78	-57.20	3.58	-13.00	44.20	Horizontal	PK	PASS
3	6981.7964	-61.88	-53.66	8.22	-13.00	40.66	Horizontal	PK	PASS





CHANNEL BANDWIDTH			10MHz/QPSK		MODE			TX channel 349000	
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH	
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu	
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3486.0972	-56.21	-58.42	-2.21	-13.00	45.42	Vertical	PK	PASS
2	5235.4471	-60.25	-56.32	3.93	-13.00	43.32	Vertical	PK	PASS
3	6960.7922	-55.64	-47.20	8.44	-13.00	34.20	Vertical	PK	PASS

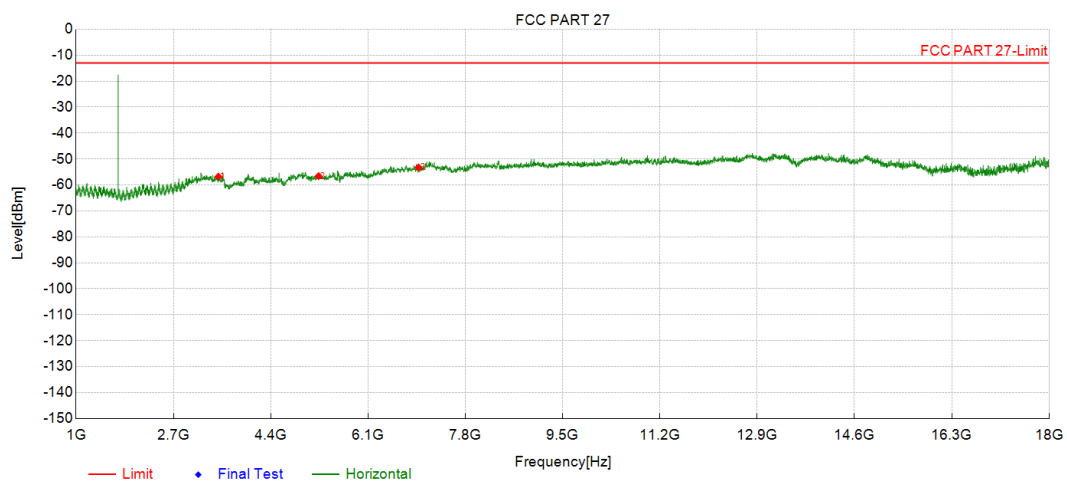




CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 349000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3486.0972	-54.58	-56.76	-2.18	-13.00	43.76	Horizontal	PK	PASS
2	5235.4471	-60.16	-56.58	3.58	-13.00	43.58	Horizontal	PK	PASS
3	6981.7964	-61.48	-53.26	8.22	-13.00	40.26	Horizontal	PK	PASS

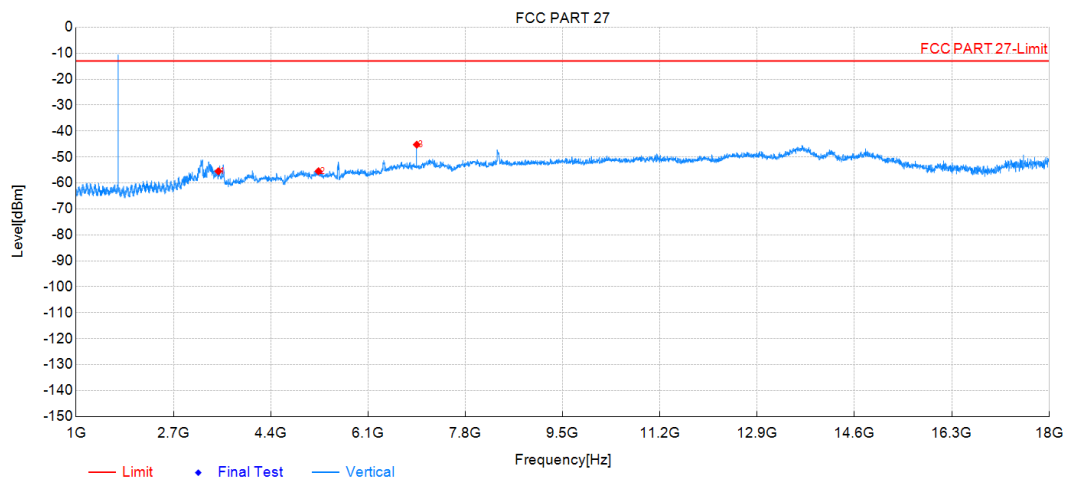




CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 349000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3486.0972	-53.27	-55.48	-2.21	-13.00	42.48	Vertical	PK	PASS
2	5235.4471	-59.41	-55.47	3.94	-13.00	42.47	Vertical	PK	PASS
3	6951.7904	-53.65	-45.22	8.43	-13.00	32.22	Vertical	PK	PASS

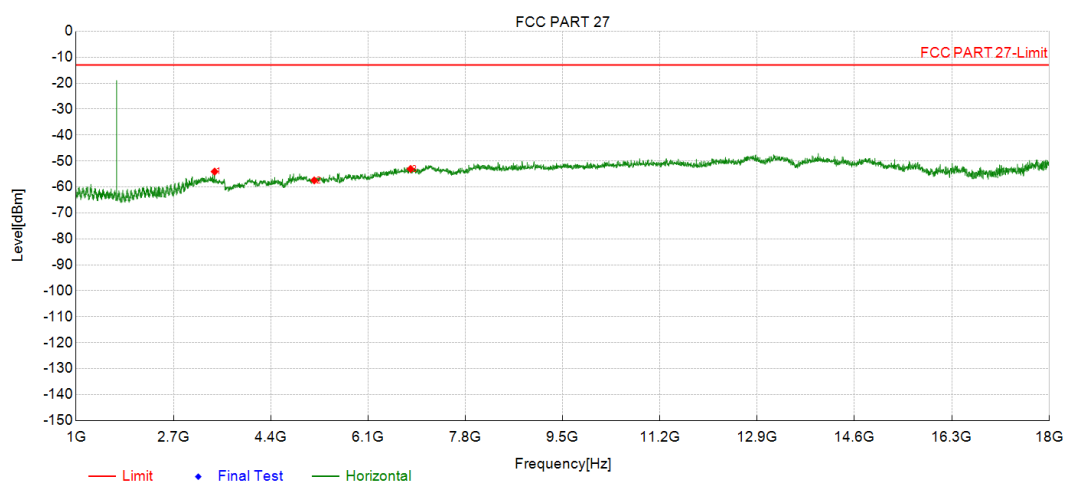




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 344000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

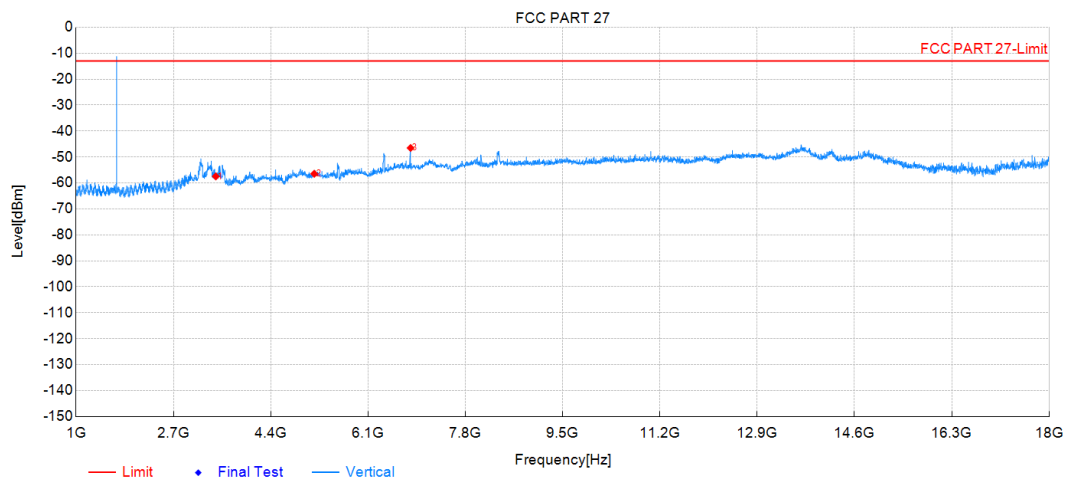
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3420.084	-51.91	-54.06	-2.15	-13.00	41.06	Horizontal	PK	PASS
2	5160.4321	-61.02	-57.46	3.56	-13.00	44.46	Horizontal	PK	PASS
3	6843.7688	-61.32	-53.05	8.27	-13.00	40.05	Horizontal	PK	PASS





CHANNEL BANDWIDTH			20MHz/QPSK		MODE			TX channel 344000		
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH		
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict	
1	3441.0882	-55.22	-57.45	-2.23	-13.00	44.45	Vertical	PK	PASS	
2	5160.4321	-60.40	-56.45	3.95	-13.00	43.45	Vertical	PK	PASS	
3	6843.7688	-54.94	-46.50	8.44	-13.00	33.50	Vertical	PK	PASS	

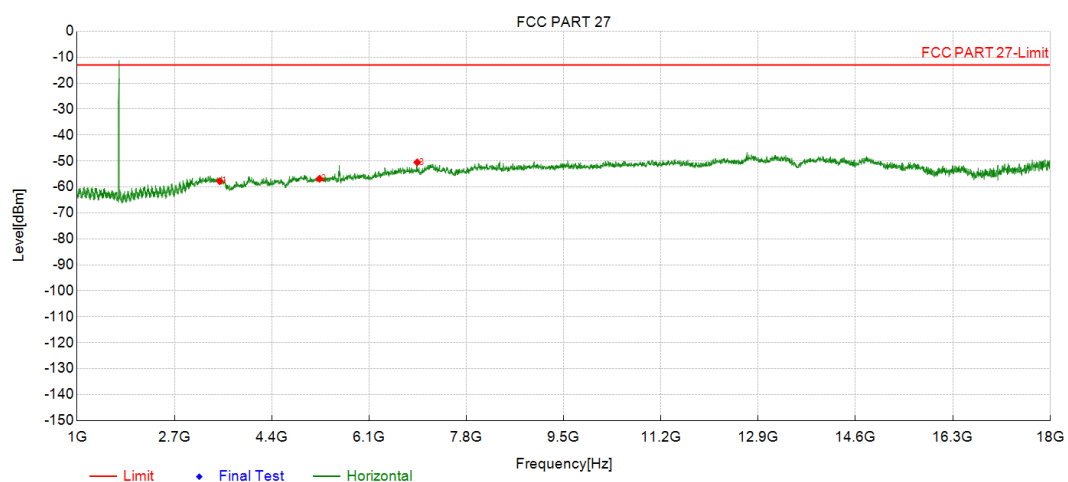




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 349000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

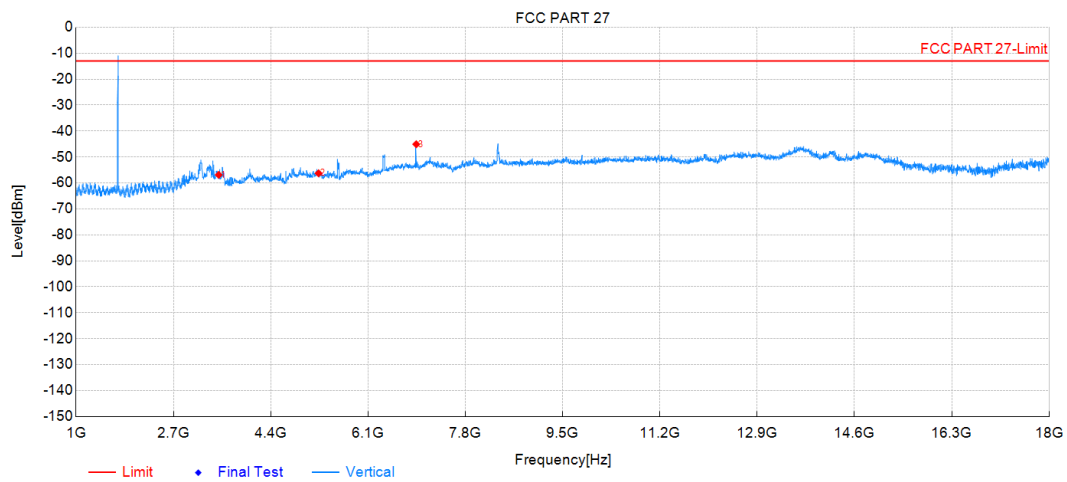
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-55.55	-57.74	-2.19	-13.00	44.74	Horizontal	PK	PASS
2	5235.4471	-60.42	-56.84	3.58	-13.00	43.84	Horizontal	PK	PASS
3	6942.7886	-58.74	-50.50	8.24	-13.00	37.50	Horizontal	PK	PASS





CHANNEL BANDWIDTH			20MHz/QPSK		MODE			TX channel 349000	
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH	
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu	
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3492.0984	-54.65	-56.86	-2.21	-13.00	43.86	Vertical	PK	PASS
2	5235.4471	-60.18	-56.25	3.93	-13.00	43.25	Vertical	PK	PASS
3	6942.7886	-53.49	-45.06	8.43	-13.00	32.06	Vertical	PK	PASS

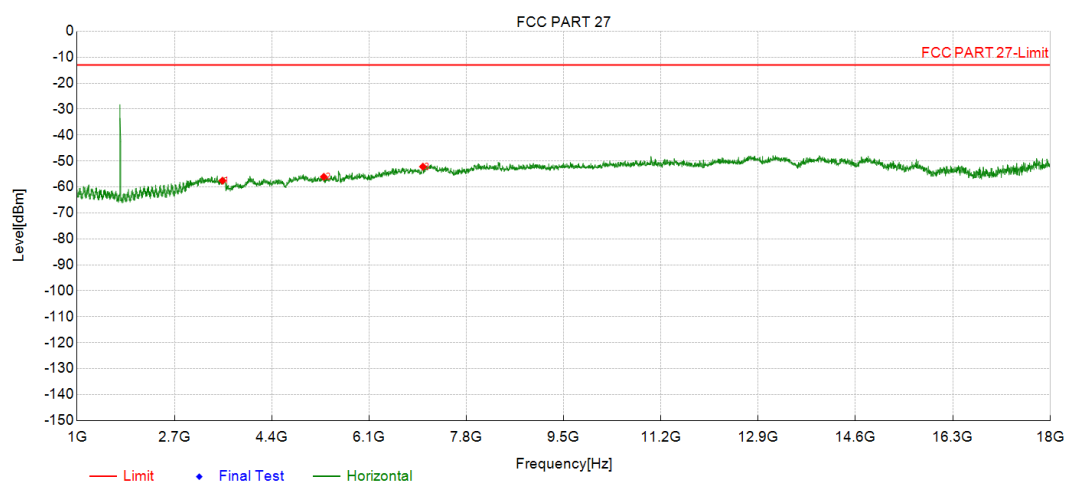




CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 354000
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Hanwen Xu

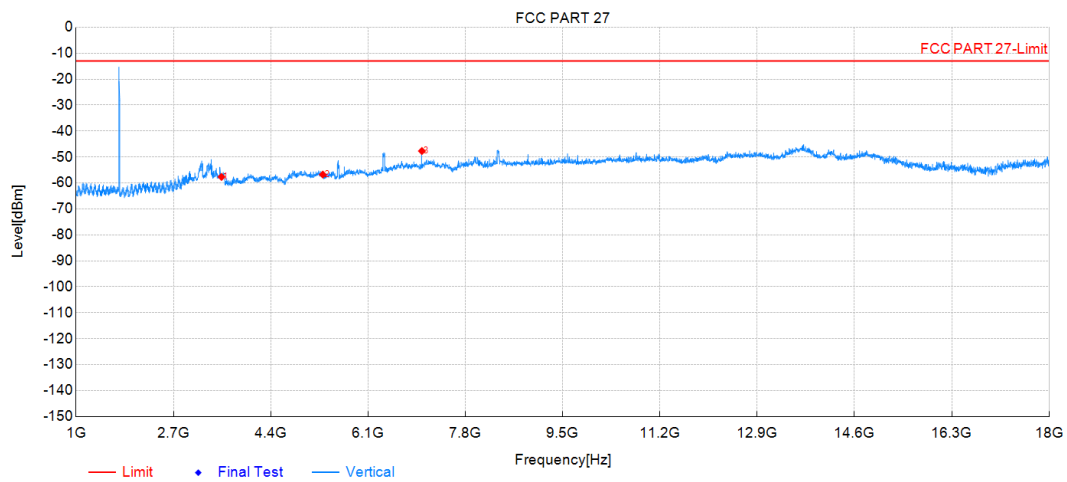
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	3540.108	-55.36	-57.57	-2.21	-13.00	44.57	Horizontal	PK	PASS
2	5310.4621	-59.87	-56.08	3.79	-13.00	43.08	Horizontal	PK	PASS
3	7041.8084	-60.68	-52.17	8.51	-13.00	39.17	Horizontal	PK	PASS





CHANNEL BANDWIDTH			20MHz/QPSK		MODE			TX channel 354000		
FREQUENCY RANGE			Above 1000MHz		ENVIRONMENTAL CONDITIONS			23deg. C, 70%RH		
INPUT POWER			120Vac 60HZ		TESTED BY			Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict	
1	3540.108	-55.47	-57.66	-2.19	-13.00	44.66	Vertical	PK	PASS	
2	5310.4621	-60.64	-56.74	3.90	-13.00	43.74	Vertical	PK	PASS	
3	7041.8084	-56.39	-47.68	8.71	-13.00	34.68	Vertical	PK	PASS	



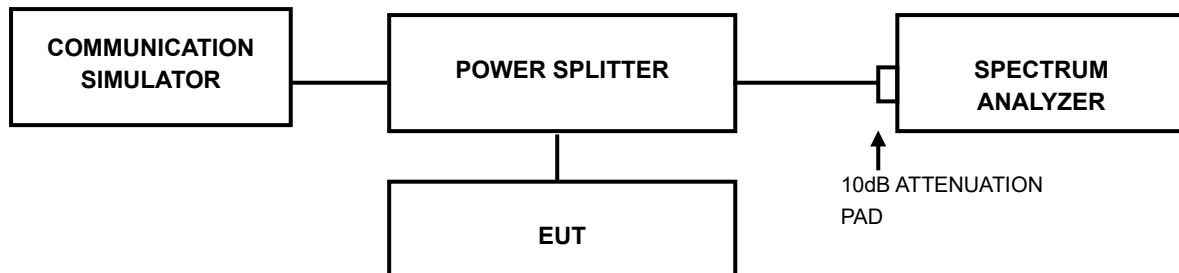


3.7 PEAK TO AVERAGE RATIO

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

Please Refer to Appendix Of this test report.



4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province, China

Accredited Test Lab Cert 6613.01

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

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008



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.



6 Appendix

LTE BAND 41

Peak-to-Average Ratio(CCDF)

Test Result

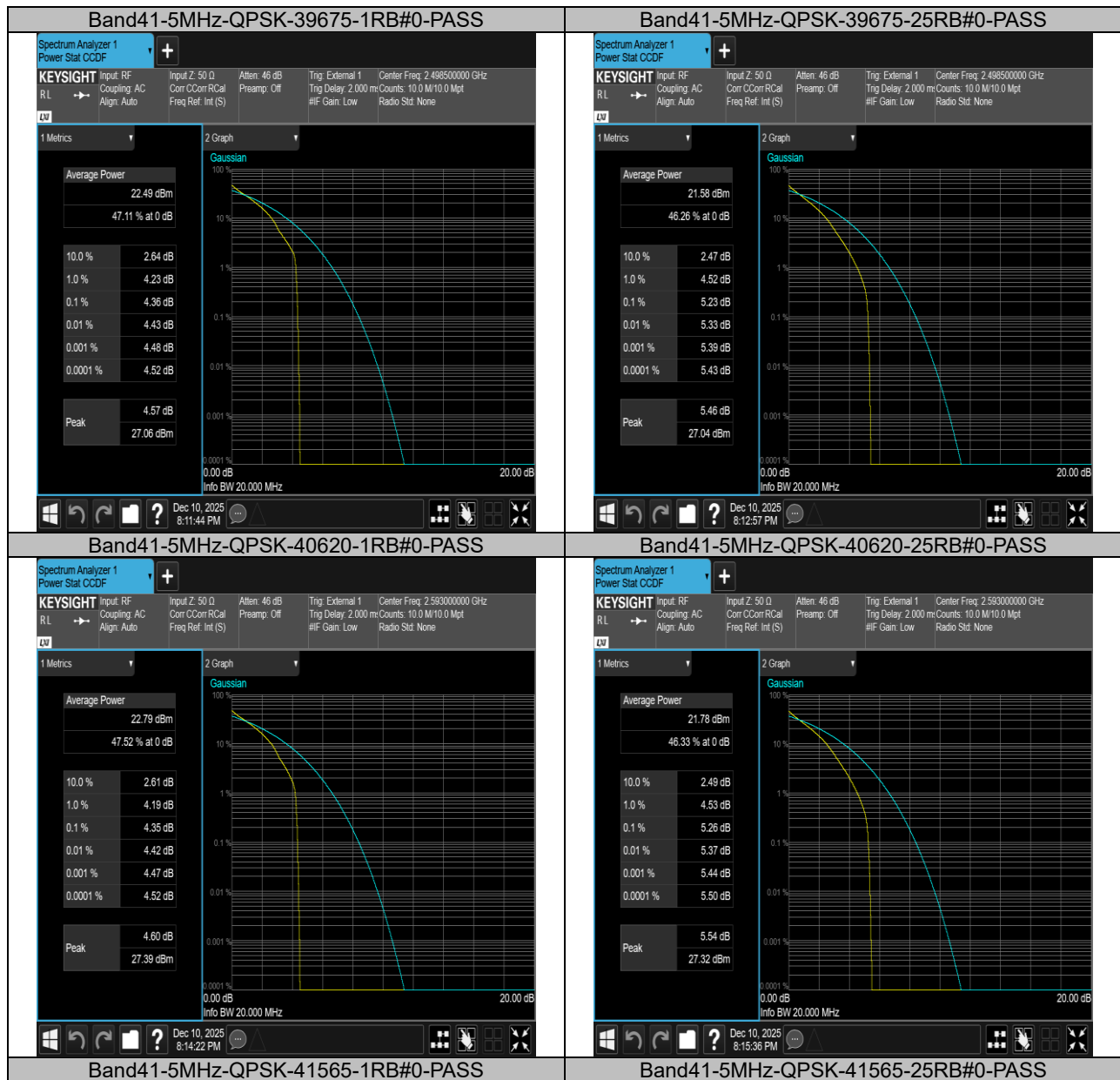
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	5MHz	QPSK	39675	1RB#0	4.36	13	PASS
Band41	5MHz	QPSK	39675	25RB#0	5.23	13	PASS
Band41	5MHz	QPSK	40620	1RB#0	4.35	13	PASS
Band41	5MHz	QPSK	40620	25RB#0	5.26	13	PASS
Band41	5MHz	QPSK	41565	1RB#0	4.36	13	PASS
Band41	5MHz	QPSK	41565	25RB#0	5.24	13	PASS
Band41	5MHz	64QAM	39675	1RB#0	6.40	13	PASS
Band41	5MHz	64QAM	39675	25RB#0	6.83	13	PASS
Band41	5MHz	64QAM	40620	1RB#0	6.33	13	PASS
Band41	5MHz	64QAM	40620	25RB#0	6.79	13	PASS
Band41	5MHz	64QAM	41565	1RB#0	6.28	13	PASS
Band41	5MHz	64QAM	41565	25RB#0	6.80	13	PASS
Band41	5MHz	16QAM	39675	1RB#0	5.39	13	PASS
Band41	5MHz	16QAM	39675	25RB#0	6.24	13	PASS
Band41	5MHz	16QAM	40620	1RB#0	5.30	13	PASS
Band41	5MHz	16QAM	40620	25RB#0	6.26	13	PASS
Band41	5MHz	16QAM	41565	1RB#0	5.36	13	PASS
Band41	5MHz	16QAM	41565	25RB#0	6.24	13	PASS
Band41	10MHz	QPSK	39700	1RB#0	4.35	13	PASS
Band41	10MHz	QPSK	39700	50RB#0	5.39	13	PASS
Band41	10MHz	QPSK	40620	1RB#0	4.41	13	PASS
Band41	10MHz	QPSK	40620	50RB#0	5.40	13	PASS
Band41	10MHz	QPSK	41540	1RB#0	4.36	13	PASS
Band41	10MHz	QPSK	41540	50RB#0	5.41	13	PASS
Band41	10MHz	64QAM	39700	1RB#0	6.37	13	PASS
Band41	10MHz	64QAM	39700	50RB#0	6.82	13	PASS
Band41	10MHz	64QAM	40620	1RB#0	6.38	13	PASS
Band41	10MHz	64QAM	40620	50RB#0	6.72	13	PASS
Band41	10MHz	64QAM	41540	1RB#0	6.40	13	PASS
Band41	10MHz	64QAM	41540	50RB#0	6.79	13	PASS
Band41	10MHz	16QAM	39700	1RB#0	5.33	13	PASS
Band41	10MHz	16QAM	39700	50RB#0	6.28	13	PASS
Band41	10MHz	16QAM	40620	1RB#0	5.44	13	PASS
Band41	10MHz	16QAM	40620	50RB#0	6.35	13	PASS
Band41	10MHz	16QAM	41540	1RB#0	5.45	13	PASS
Band41	10MHz	16QAM	41540	50RB#0	6.33	13	PASS
Band41	15MHz	QPSK	39725	1RB#0	4.39	13	PASS
Band41	15MHz	QPSK	39725	75RB#0	5.62	13	PASS
Band41	15MHz	QPSK	40620	1RB#0	4.44	13	PASS
Band41	15MHz	QPSK	40620	75RB#0	5.59	13	PASS
Band41	15MHz	QPSK	41515	1RB#0	4.42	13	PASS
Band41	15MHz	QPSK	41515	75RB#0	5.59	13	PASS
Band41	15MHz	64QAM	39725	1RB#0	6.25	13	PASS
Band41	15MHz	64QAM	39725	75RB#0	6.83	13	PASS
Band41	15MHz	64QAM	40620	1RB#0	6.31	13	PASS
Band41	15MHz	64QAM	40620	75RB#0	6.75	13	PASS
Band41	15MHz	64QAM	41515	1RB#0	6.32	13	PASS
Band41	15MHz	64QAM	41515	75RB#0	6.82	13	PASS
Band41	15MHz	16QAM	39725	1RB#0	5.35	13	PASS



Band41	15MHz	16QAM	39725	75RB#0	6.43	13	PASS
Band41	15MHz	16QAM	40620	1RB#0	5.51	13	PASS
Band41	15MHz	16QAM	40620	75RB#0	6.42	13	PASS
Band41	15MHz	16QAM	41515	1RB#0	5.48	13	PASS
Band41	15MHz	16QAM	41515	75RB#0	6.44	13	PASS
Band41	20MHz	QPSK	39750	1RB#0	4.41	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.55	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	4.45	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.50	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	4.39	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	5.49	13	PASS
Band41	20MHz	64QAM	39750	1RB#0	6.18	13	PASS
Band41	20MHz	64QAM	39750	100RB#0	6.82	13	PASS
Band41	20MHz	64QAM	40620	1RB#0	6.37	13	PASS
Band41	20MHz	64QAM	40620	100RB#0	6.80	13	PASS
Band41	20MHz	64QAM	41490	1RB#0	6.37	13	PASS
Band41	20MHz	64QAM	41490	100RB#0	6.88	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	5.37	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	6.42	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	5.37	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	6.40	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	5.55	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	6.37	13	PASS



Test Graphs





BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04



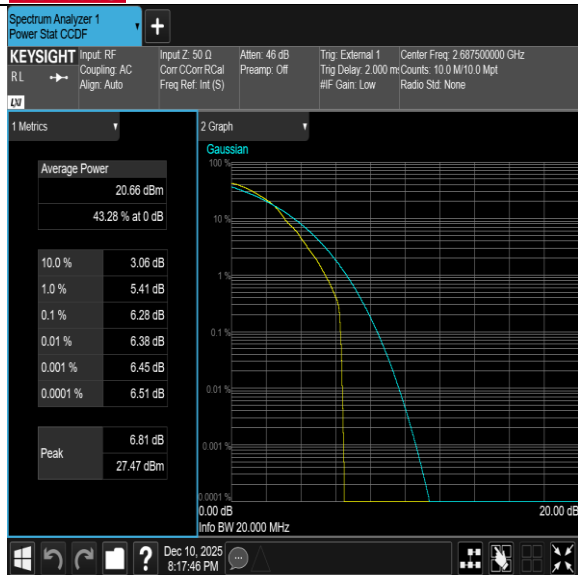
Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

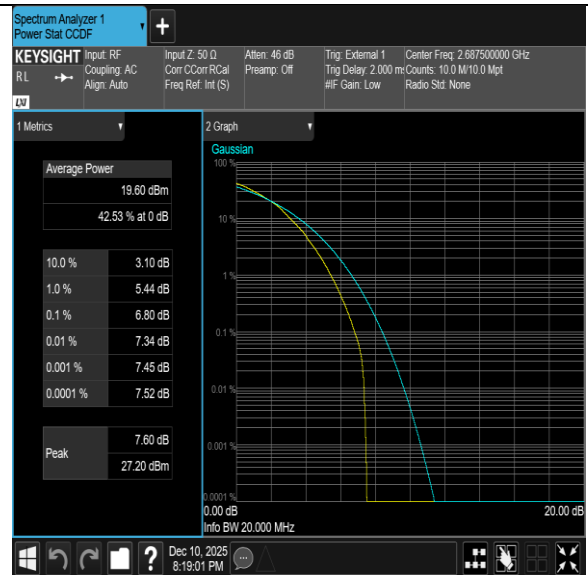
Tel: +86 (0557) 368 1008



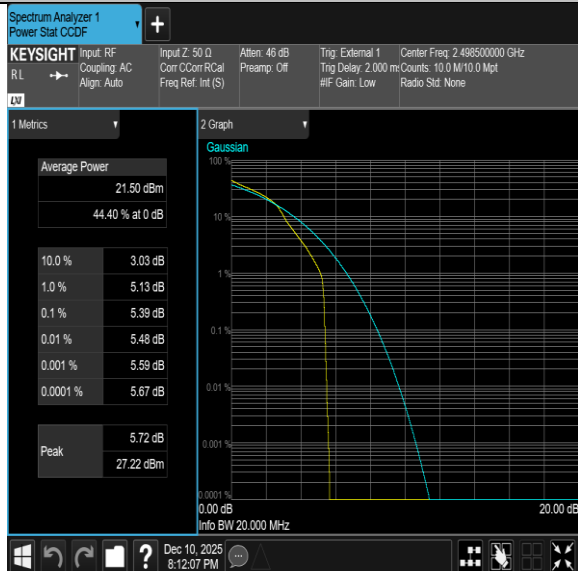
BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04



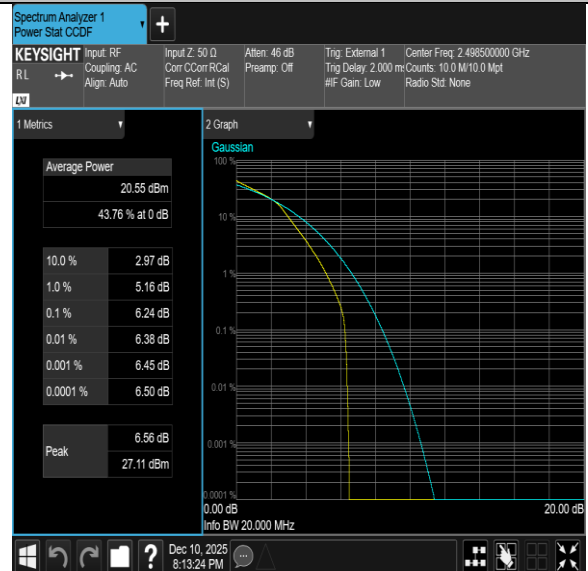
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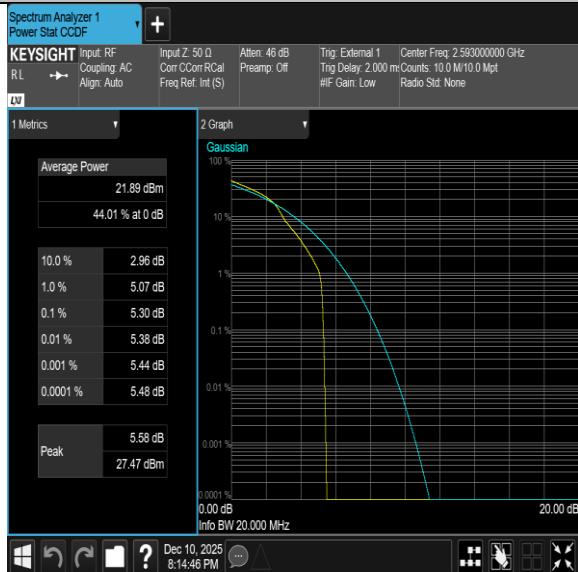
Band41-5MHz-16QAM-39675-25RB#0-PASS



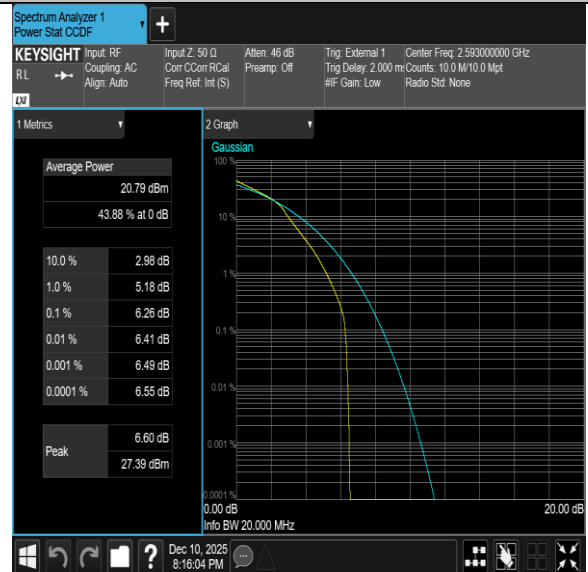
Band41-5MHz-16QAM-40620-1RB#0-PASS



Band41-5MHz-16QAM-40620-25RB#0-PASS



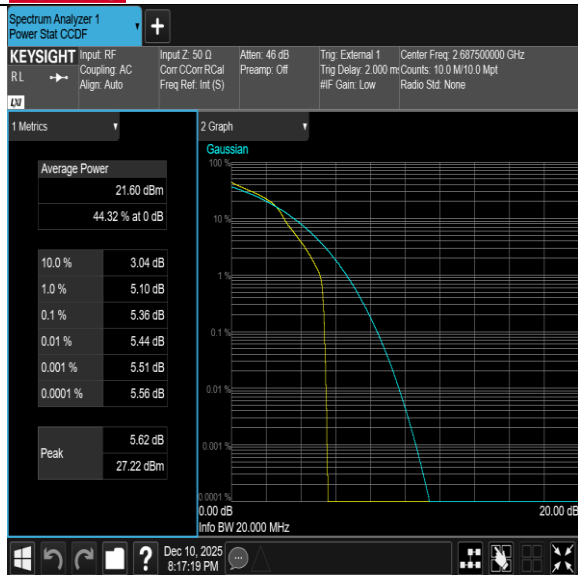
Band41-5MHz-16QAM-41565-1RB#0-PASS



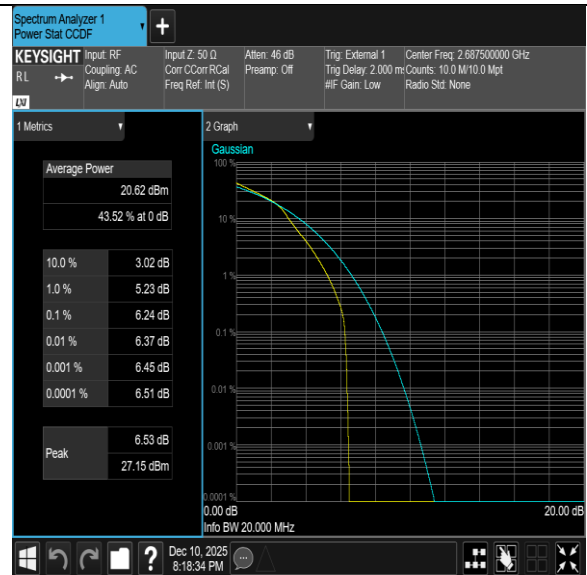
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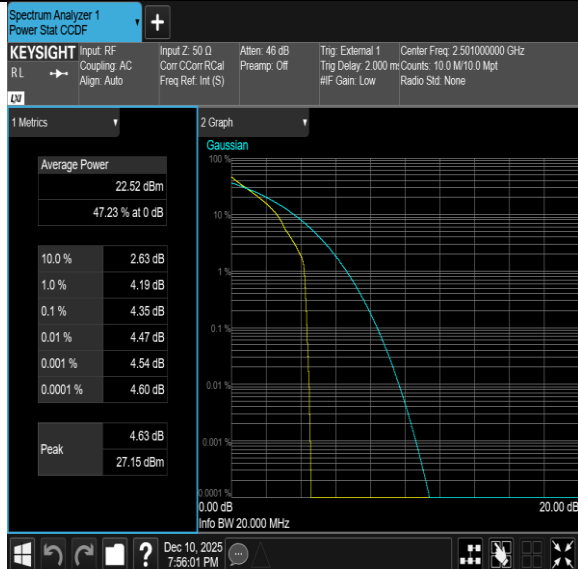
BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04



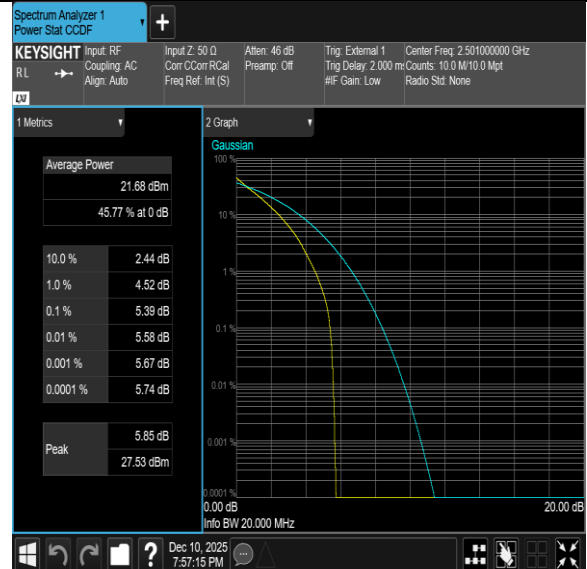
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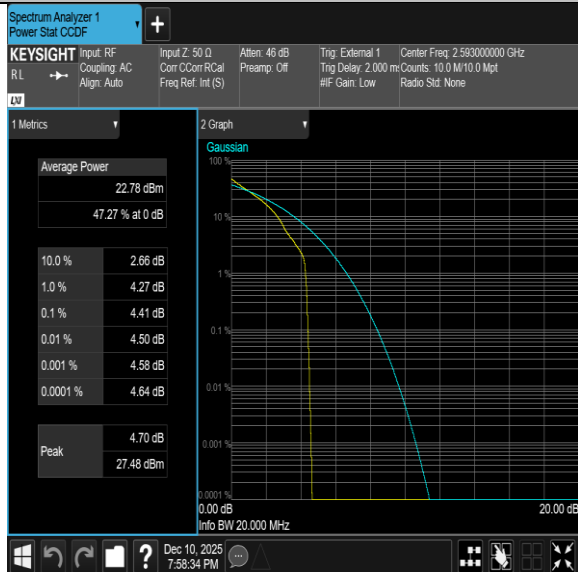
Band41-10MHz-QPSK-39700-50RB#0-PASS



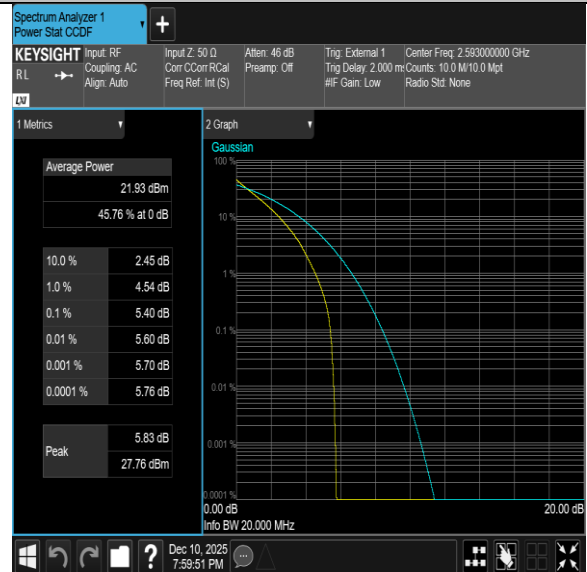
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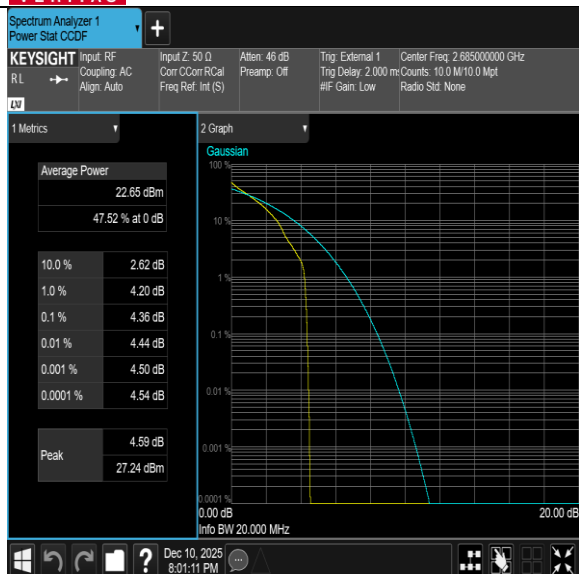
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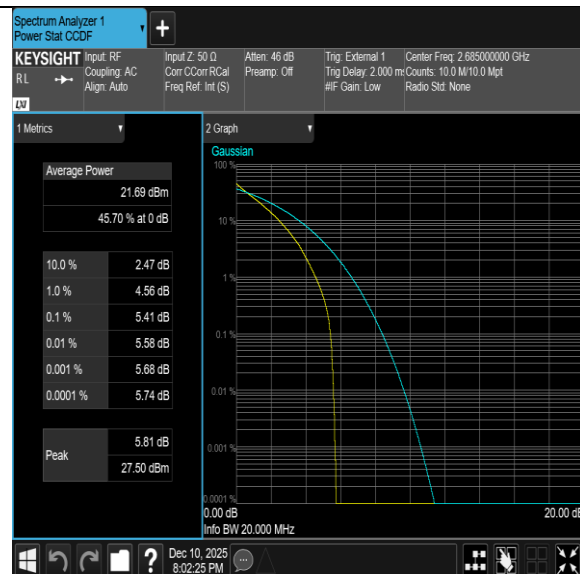
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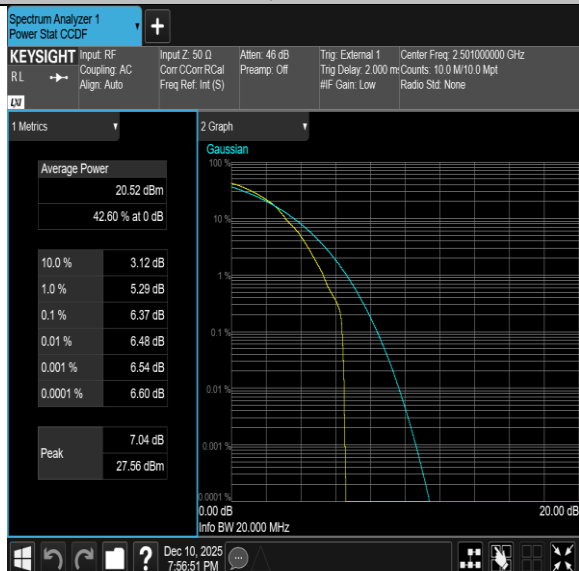
BUREAU VERITAS Test Report No.: PSU-QBJ2512030110RF04



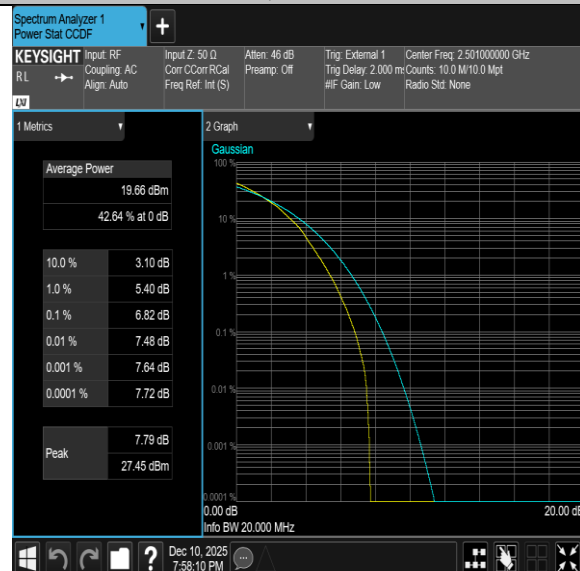
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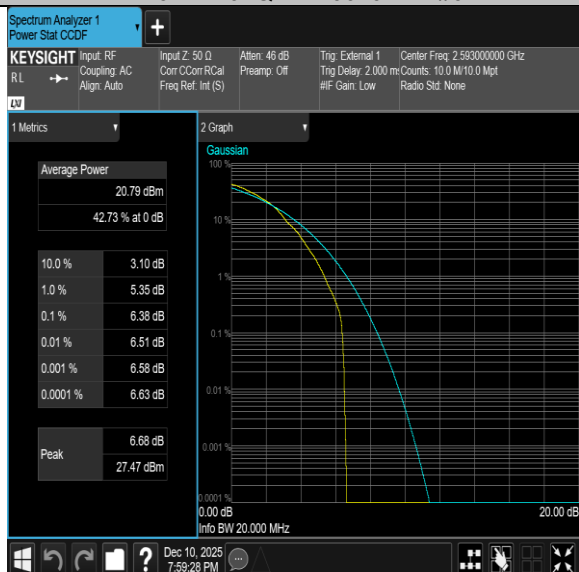
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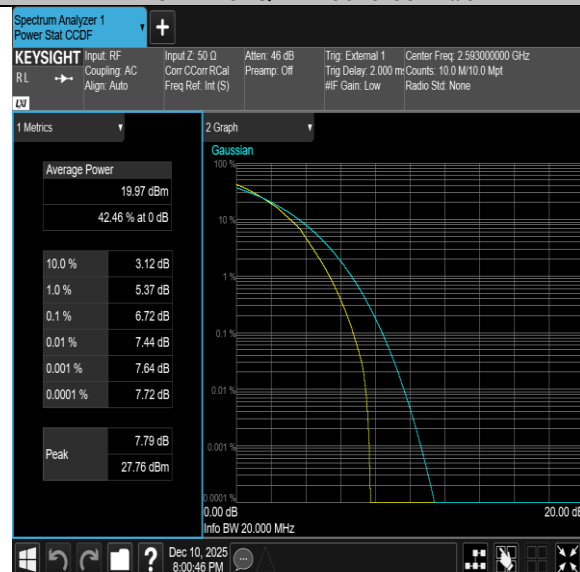
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Band41-10MHz-64QAM-41540-1RB#0-PASS



Band41-10MHz-64QAM-41540-50RB#0-PASS