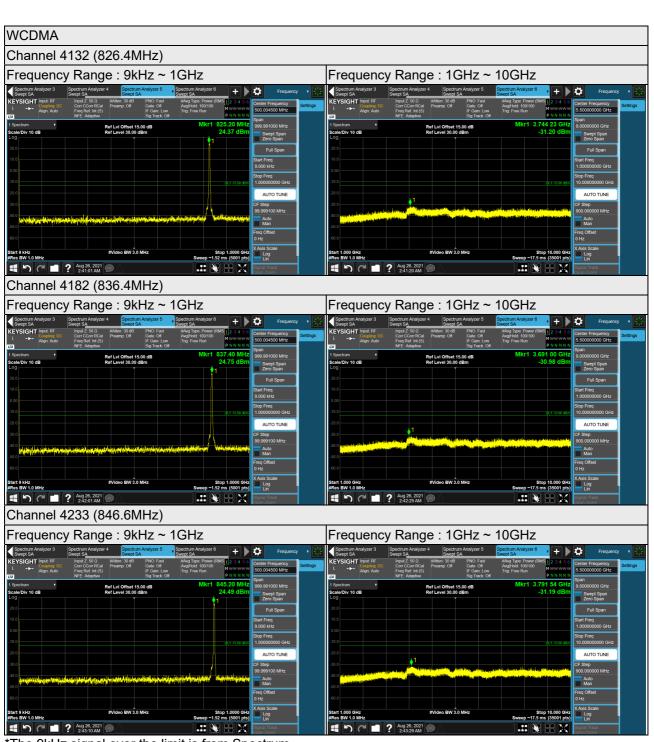


4.7.4 Test Results









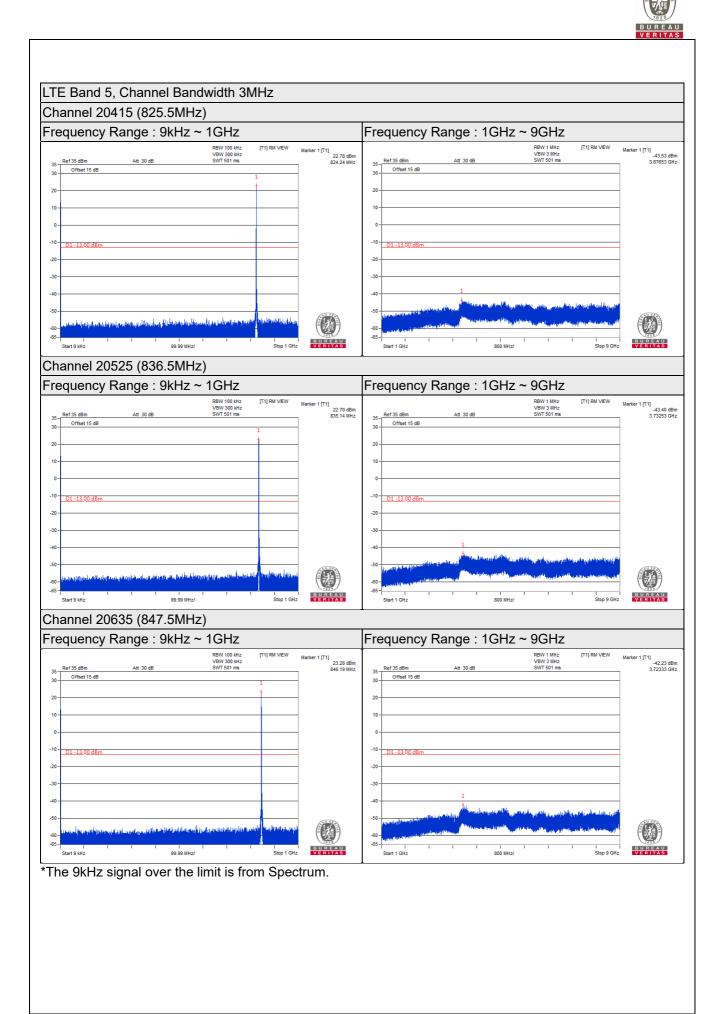




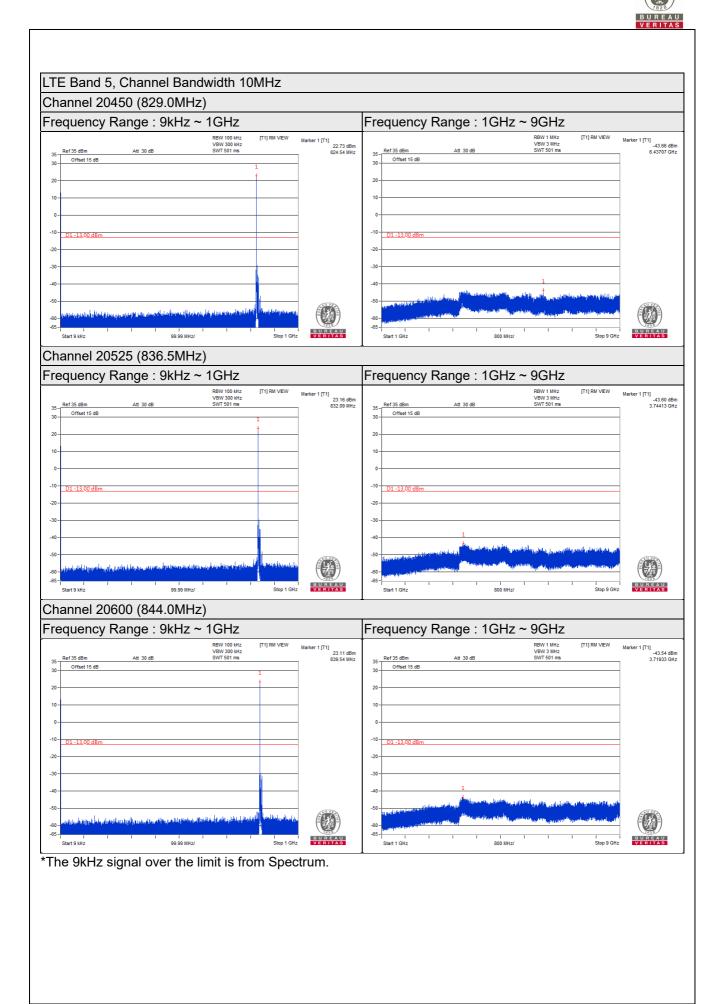


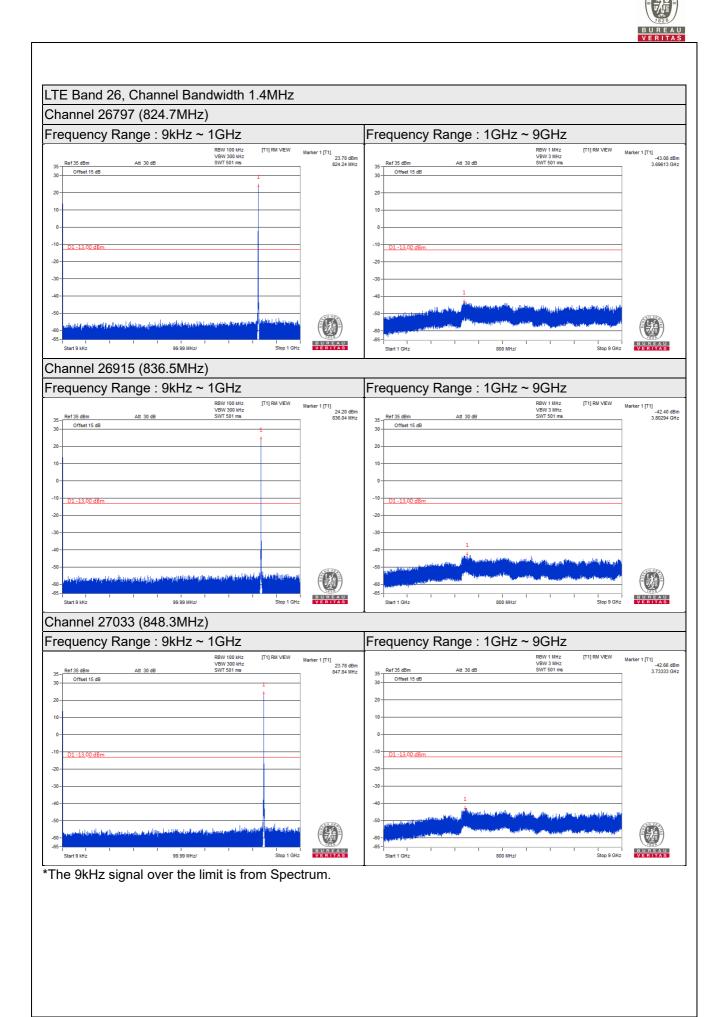




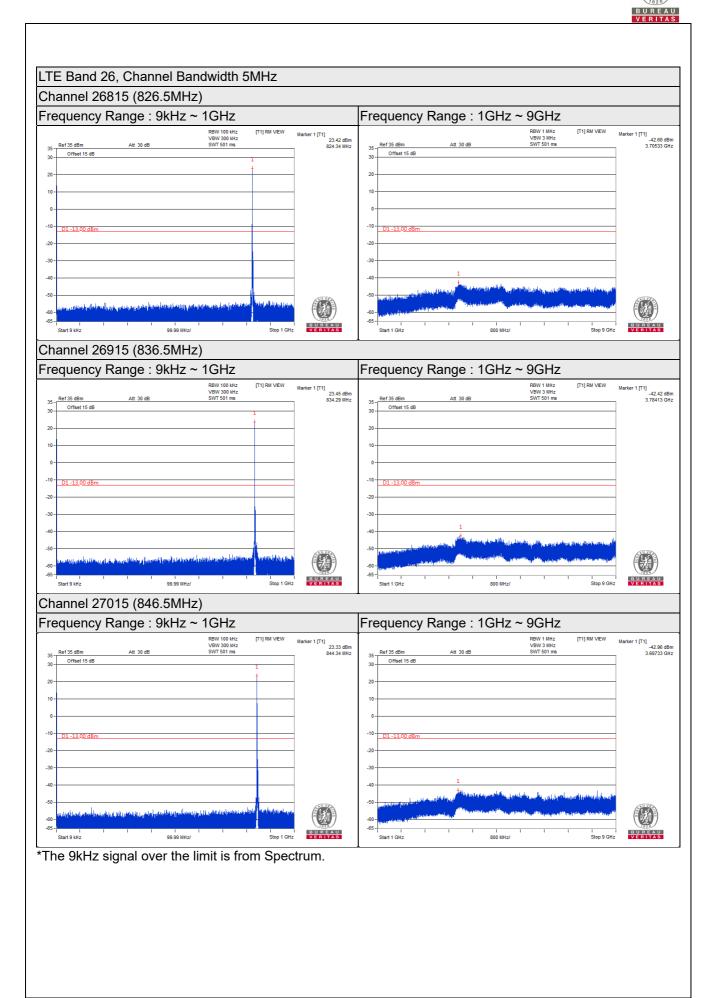


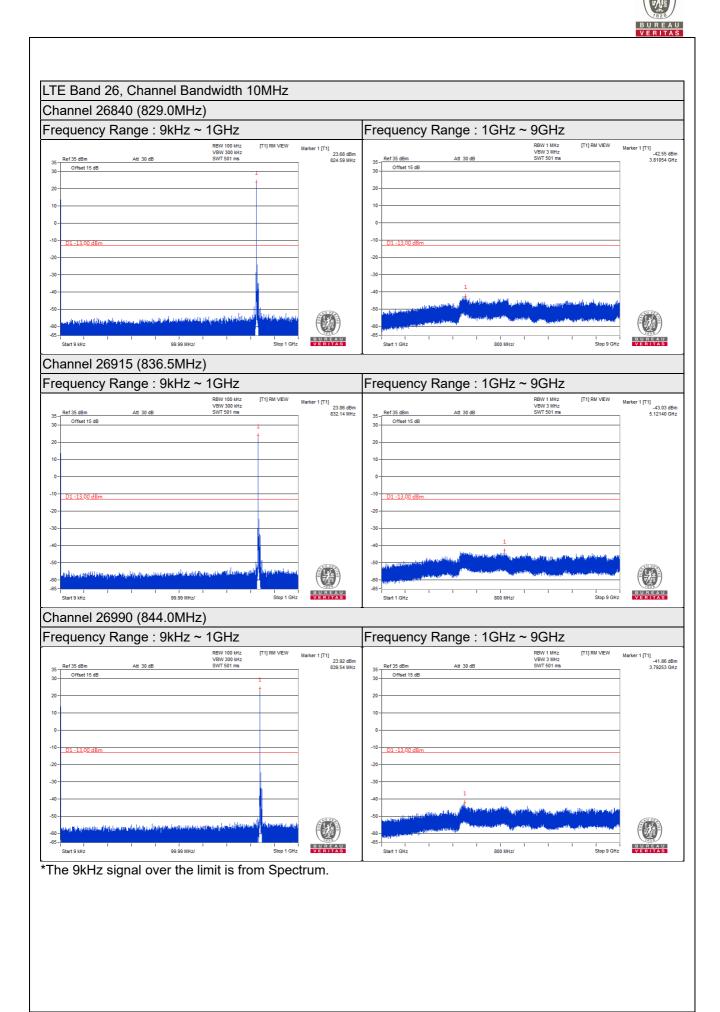


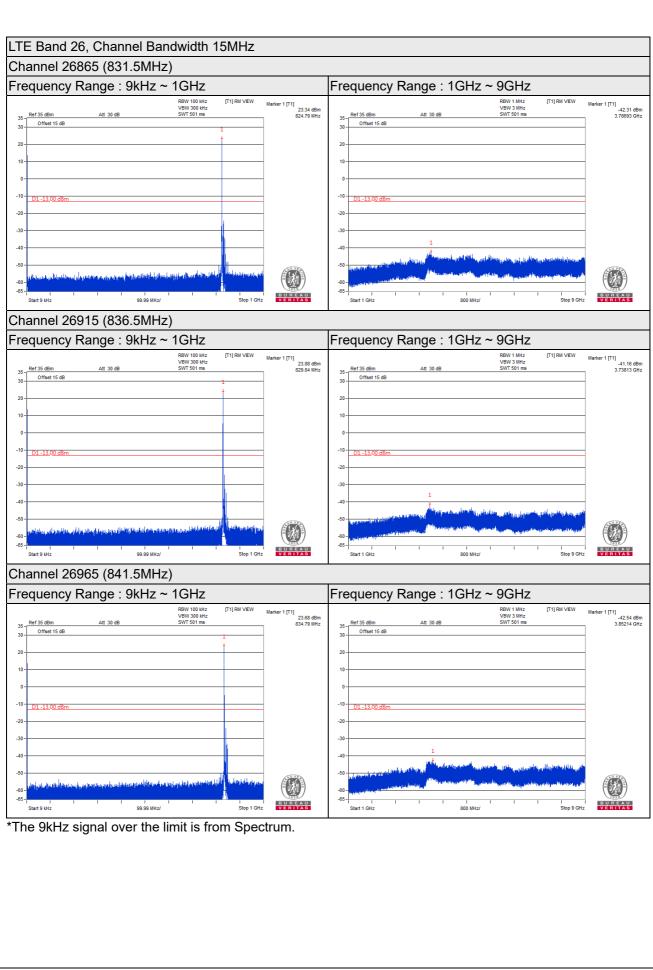














4.8 Radiated Emission Measurement

4.8.1 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 dBm.

4.8.2 Test Procedure

- a. In the semi-anechoic chamber, EUT placed on the 0.8m(below or equal 1GHz) and/or 1.5m(above 1GHz) 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 height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. Perform a field strength measurement and record the worse read value, is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor and then mathematically convert the measured field strength level to EIRP/ERP level.
- d. Following C63.26 section 5.5 and 5.2.7 EIRP (dBm) = E (dBµV/m) + 20log(D) - 104.8; where D is the measurement distance (in the far field region) in m.
 ERP (dBm) = E (dBµV/m) + 20log(D) - 104.8 - 2.15; where D is the measurement distance (in the far field region) in m.

Note:

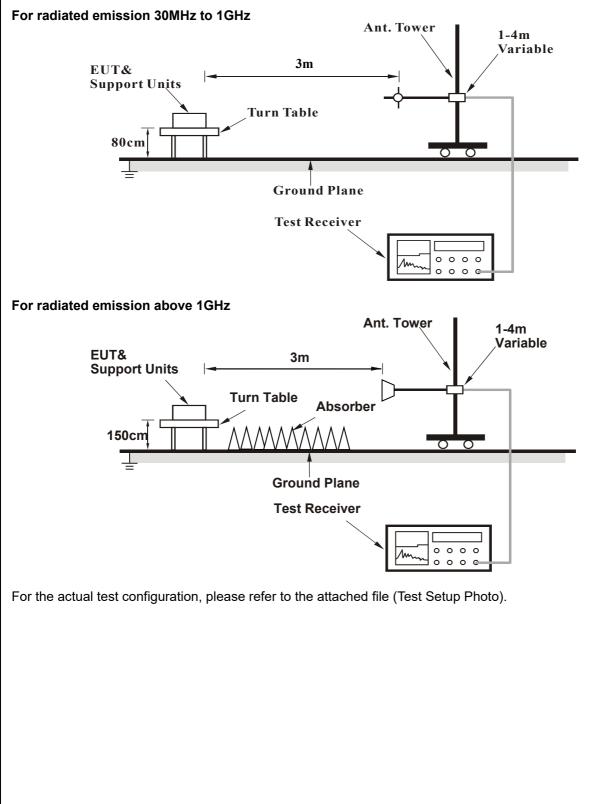
- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.
- The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz: The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.8.3 Deviation from Test Standard

No deviation.



4.8.4 Test Setup

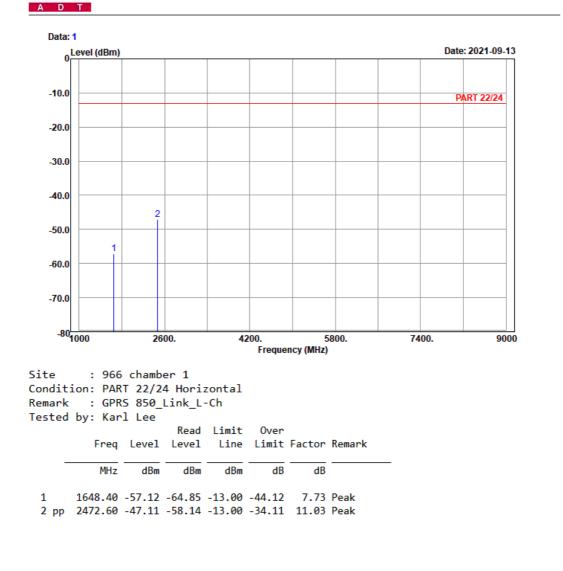




4.8.5 Test Results

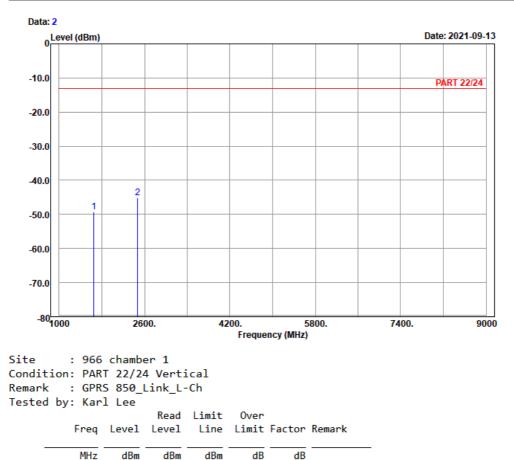
Test Mode A GPRS Low Channel

Bureau









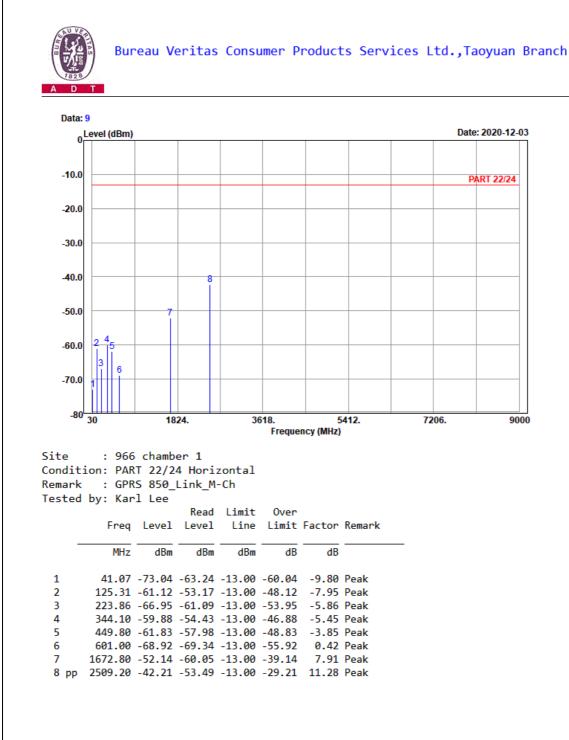
 MHz
 dBm
 dBm
 dBm
 dB
 dB

 1
 1648.40
 -49.21
 -56.94
 -13.00
 -36.21
 7.73
 Peak

 2 pp
 2472.60
 -45.22
 -56.25
 -13.00
 -32.22
 11.03
 Peak

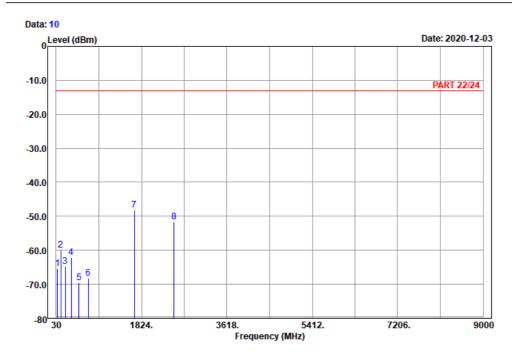


Mid Channel











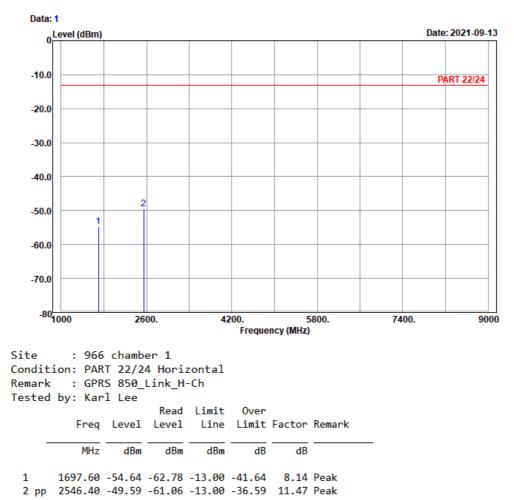
		Read	Limit	0ver		
Freq	Level	Level	Line	Limit	Factor	Remark

	MHz	dBm	dBm	dBm	dB	dB	
1	58.89	-65.47	-51.41	-13.00	-52.47	-14.06	Peak
2	127.74	-59.99	-52.22	-13.00	-46.99	-7.77	Peak
3	217.65	-64.72	-58.77	-13.00	-51.72	-5.95	Peak
4	347.60	-62.03	-56.62	-13.00	-49.03	-5.41	Peak
5	507.20	-69.49	-64.70	-13.00	-56.49	-4.79	Peak
6	703.90	-68.14	-67.69	-13.00	-55.14	-0.45	Peak
7 pp	1672.80	-48.12	-56.03	-13.00	-35.12	7.91	Peak
8	2509.20	-51.65	-62.93	-13.00	-38.65	11.28	Peak



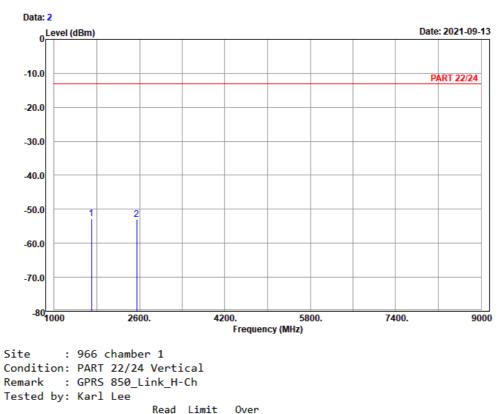
High Channel









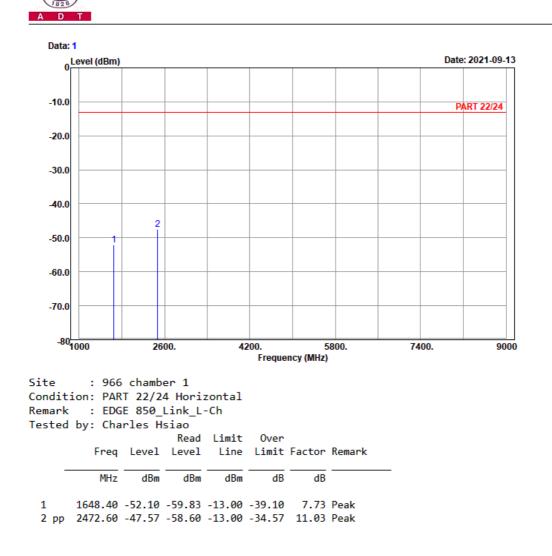


	Freq	Level	Level	Line	Limit	Factor	Remark	
-	MHz	dBm	dBm	dBm	dB	dB		
1 pp	1697.60	-52.76	-60.90	-13.00	-39.76	8.14	Peak	

1 pp 1697.60 -52.76 -60.90 -13.00 -39.76 о.14 геак 2 2546.40 -52.91 -64.38 -13.00 -39.91 11.47 Реак

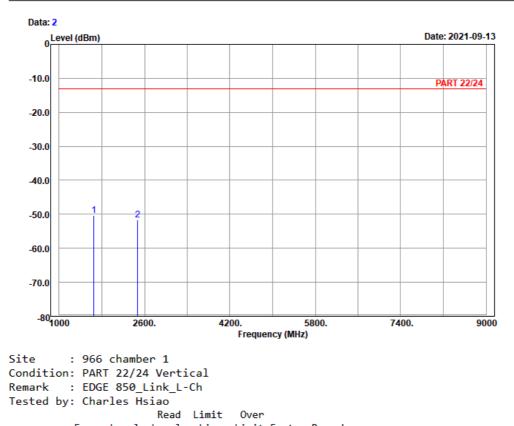


EDGE Low Channel





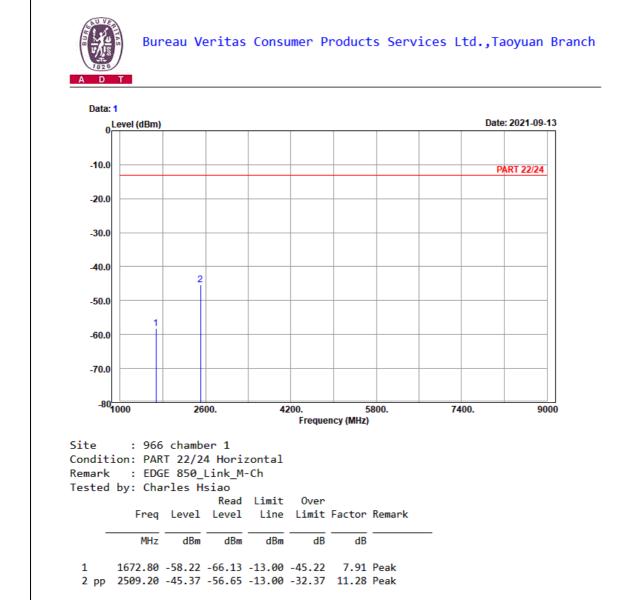




	Freq	Level	Level	Line	Limit	Factor	Remark	
_	MHz	dBm	dBm	dBm	dB	dB		
	1648.40 2472.60							

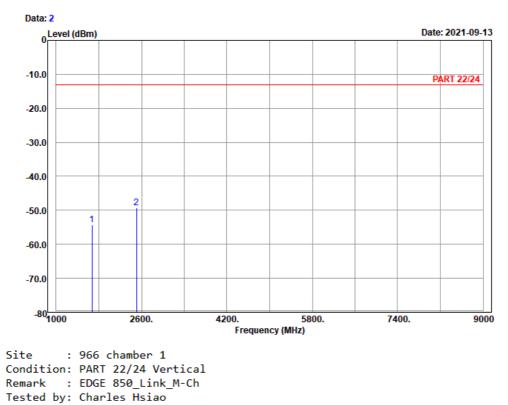


Mid Channel









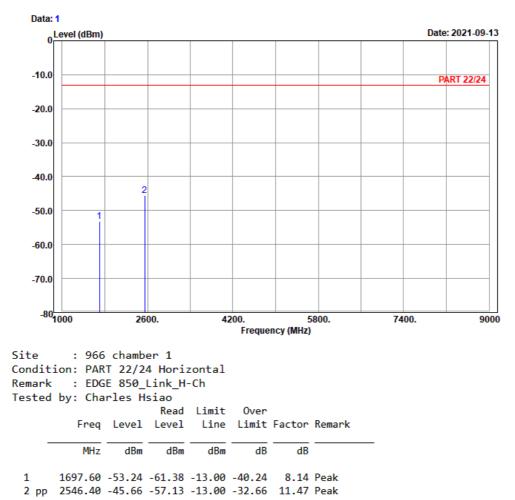
	Freq	Level		Limit Line			Remark
-	MHz	dBm	dBm	dBm	dB	dB	

1 1672.80 -54.28 -62.19 -13.00 -41.28 7.91 Peak 2 pp 2509.20 -49.26 -60.54 -13.00 -36.26 11.28 Peak



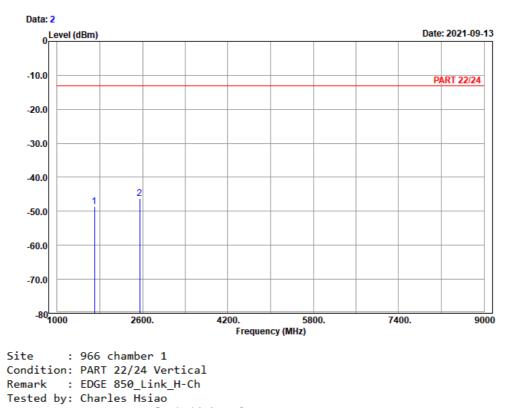
High Channel









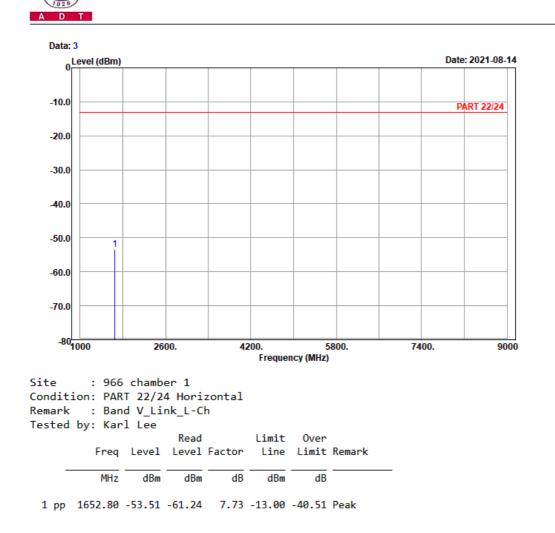


Freq	Level		Limit Line		Factor	Remark
 MHz	dBm	dBm	dBm	dB	dB	

1 1697.60 -48.55 -56.69 -13.00 -35.55 8.14 Peak 2 pp 2546.40 -46.27 -57.74 -13.00 -33.27 11.47 Peak

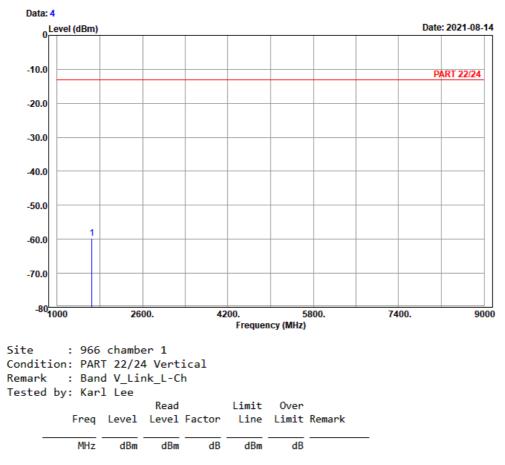


WCDMA Low Channel





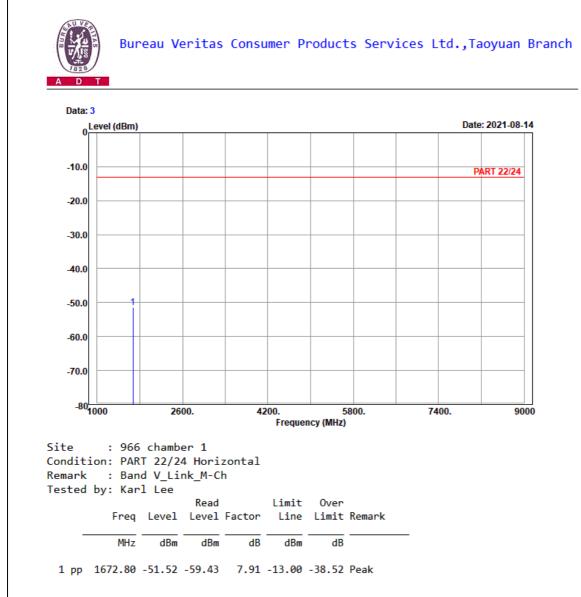




1 pp 1652.80 -59.67 -67.40 7.73 -13.00 -46.67 Peak

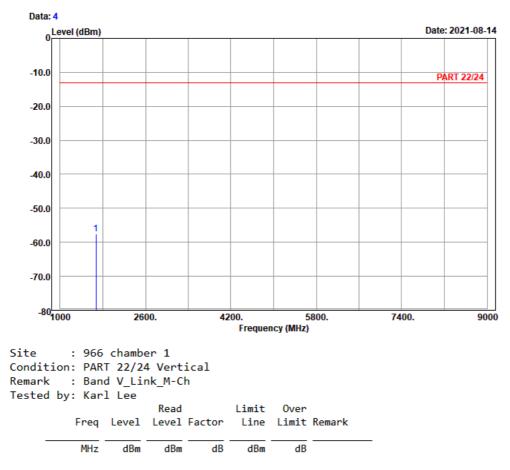


Mid Channel







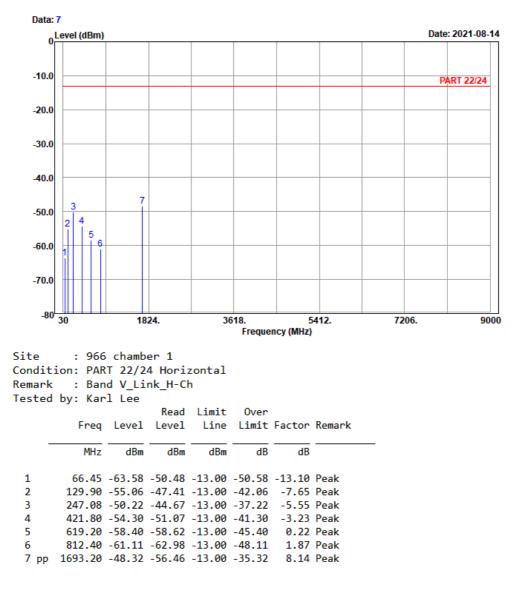


1 pp 1672.80 -57.44 -65.35 7.91 -13.00 -44.44 Peak



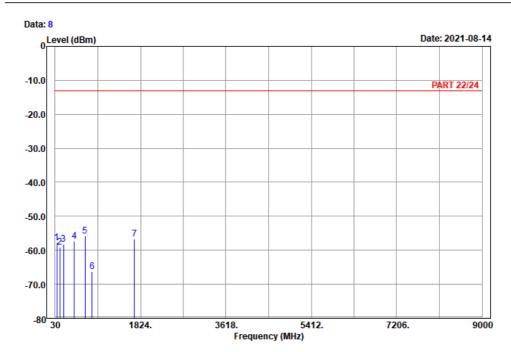
High Channel

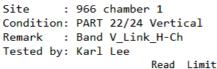








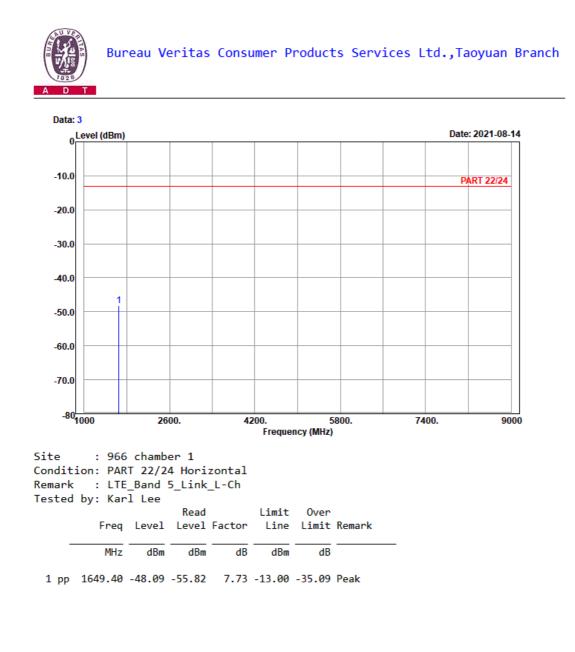




		Read	Limit	0ver		
Freq	Level	Level	Line	Limit	Factor	Remark

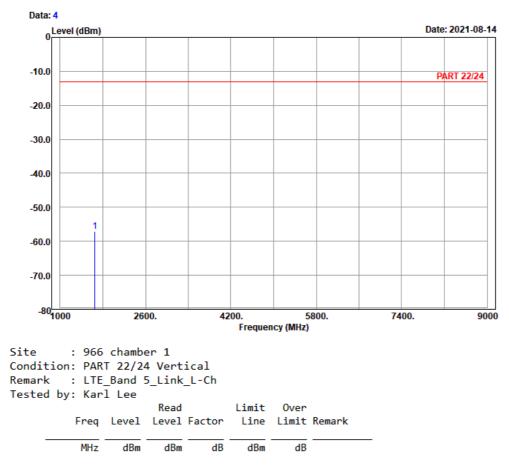
	MHz	dBm	dBm	dBm	dB	dB	
1	65.10	-57.81	-44.43	-13.00	-44.81	-13.38	Peak
2	128.55	-59.10	-51.39	-13.00	-46.10	-7.71	Peak
3	208.20	-58.12	-52.05	-13.00	-45.12	-6.07	Peak
4	430.20	-57.25	-53.83	-13.00	-44.25	-3.42	Peak
5 pp	654.20	-55.90	-55.74	-13.00	-42.90	-0.16	Peak
6	806.80	-66.18	-68.11	-13.00	-53.18	1.93	Peak
7	1693.20	-56.70	-64.84	-13.00	-43.70	8.14	Peak

LTE Band 5, Channel Bandwidth 1.4MHz Low Channel





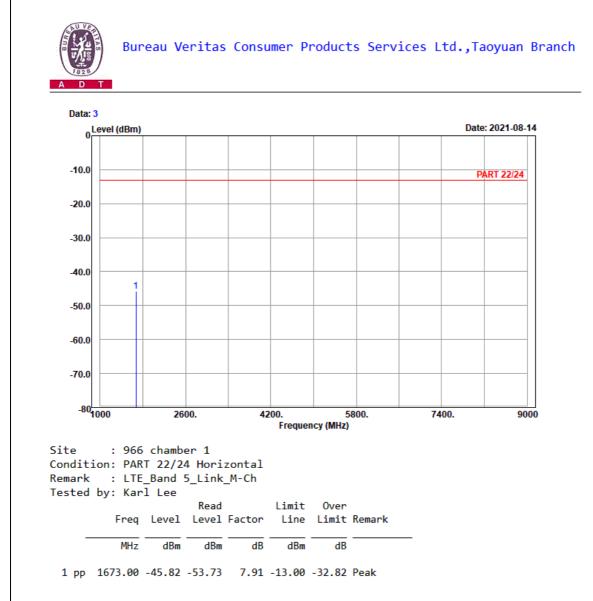




1 pp 1649.40 -57.22 -64.95 7.73 -13.00 -44.22 Peak

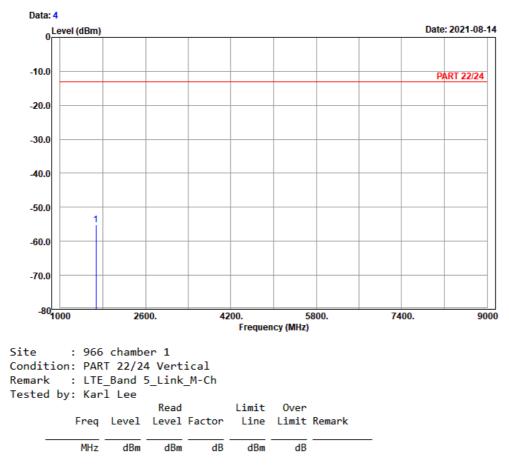


Mid Channel









1 pp 1673.00 -55.23 -63.14 7.91 -13.00 -42.23 Peak

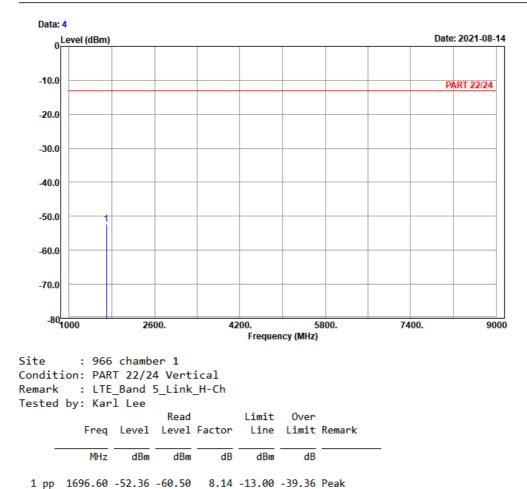


High Channel



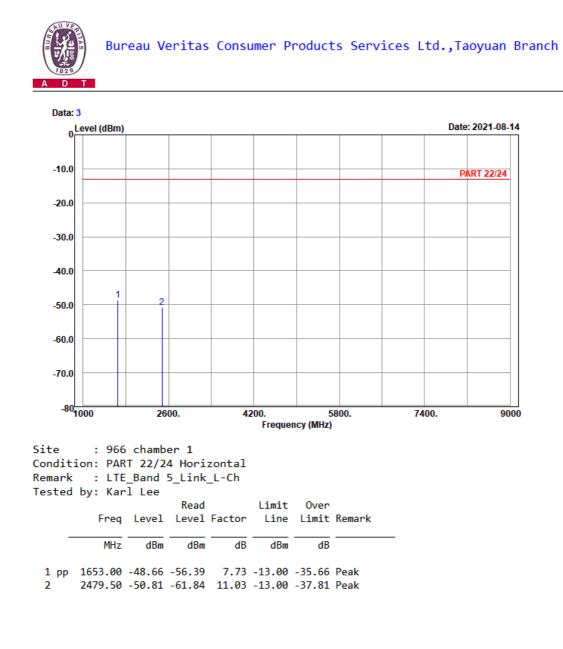






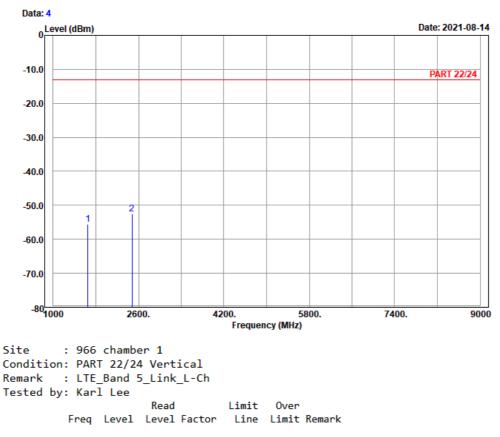
Report No.: RFBEAD-WTW-P21060534-6

LTE Band 5, Channel Bandwidth 5MHz Low Channel





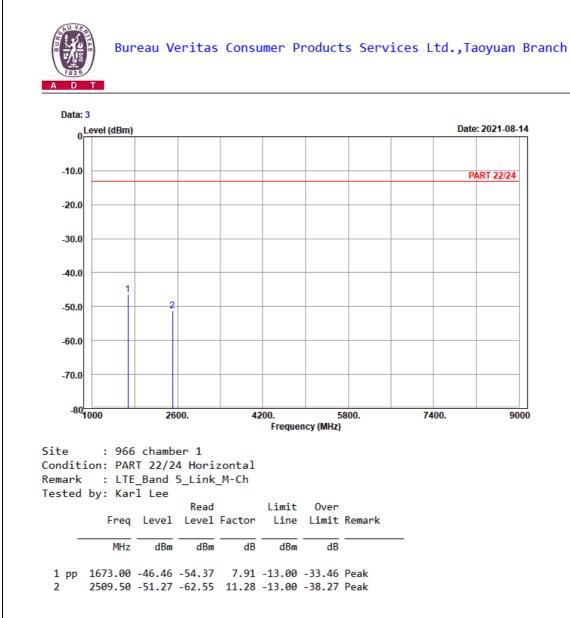




-	MHz	dBm	dBm	dB	dBm	dB	
1	1653.00	-55.59	-63.32	7.73	-13.00	-42.59	Peak
2 pp	2479.50	-52.57	-63.60	11.03	-13.00	-39.57	Peak

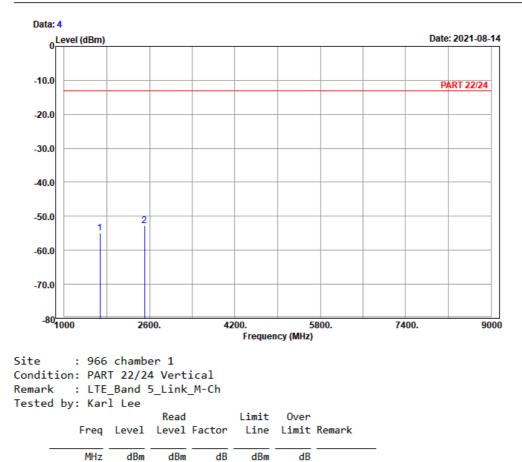


Mid Channel





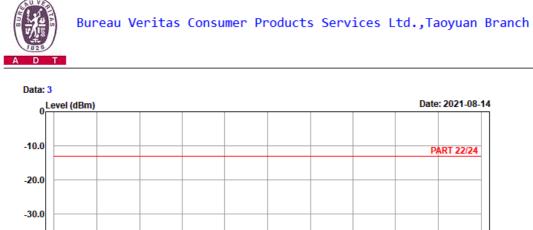


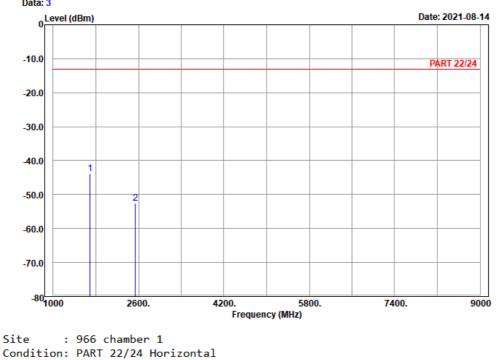


1 1673.00 -55.00 -62.91 7.91 -13.00 -42.00 Peak 2 pp 2509.50 -52.84 -64.12 11.28 -13.00 -39.84 Peak



High Channel



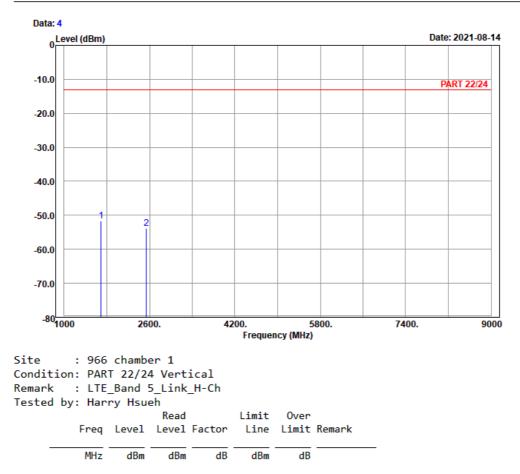


condre.				concor						
Remark	: LTE	_Band	5_Link	H-Ch						
Tested	Tested by: Harry Hsueh									
			Read		Limit	0ver				
	Freq	Level	Level	Factor	Line	Limit	Remark			
_										
	MHz	dBm	dBm	dB	dBm	dB				
1 pp	1693.00	-43.84	-51.86	8.02	-13.00	-30.84	Peak			

2539.50 -52.45 -63.92 11.47 -13.00 -39.45 Peak 2

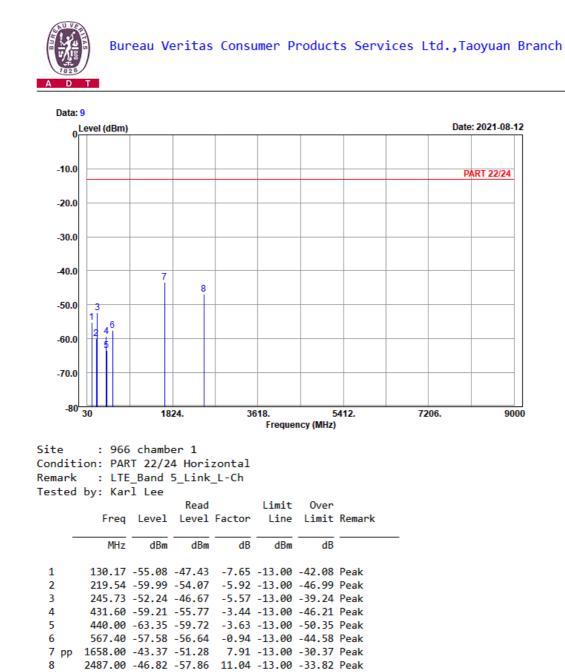






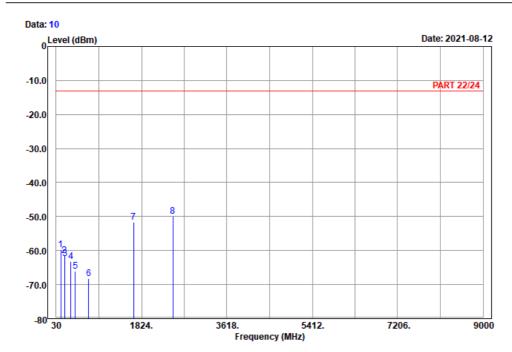
1 pp 1693.00 -51.75 -59.77 8.02 -13.00 -38.75 Peak 2 2539.50 -53.77 -65.24 11.47 -13.00 -40.77 Peak

LTE Band 5, Channel Bandwidth 10MHz Low Channel









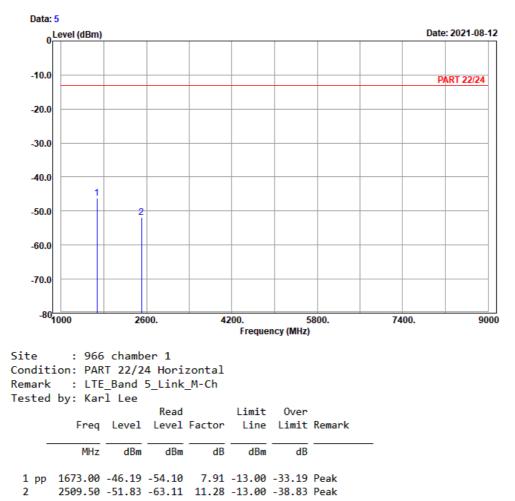
Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : LTE_Band 5_Link_L-Ch Tested by: Karl Lee Read

			Read		Limit	0ver	
	Freq	Level	Level	Factor	Line	Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	128.01	-59.78	-52.01	-7.77	-13.00	-46.78	Peak
2	203.07	-61.42	-55.28	-6.14	-13.00	-48.42	Peak
3	214.41	-62.24	-56.25	-5.99	-13.00	-49.24	Peak
4	336.40	-63.30	-57.77	-5.53	-13.00	-50.30	Peak
5	433.00	-66.02	-62.56	-3.46	-13.00	-53.02	Peak
6	713.70	-68.25	-67.62	-0.63	-13.00	-55.25	Peak
7	1658.00	-51.64	-59.55	7.91	-13.00	-38.64	Peak
8 pp	2487.00	-49.95	-60.99	11.04	-13.00	-36.95	Peak



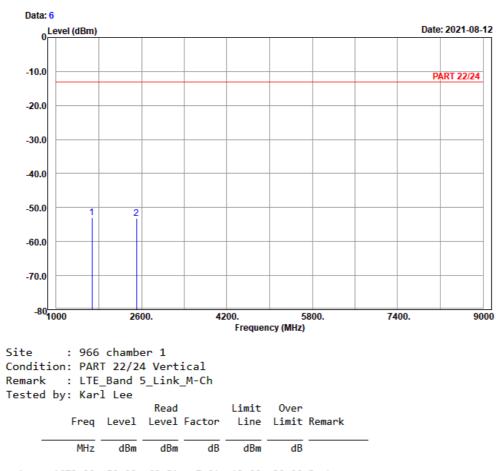
Mid Channel









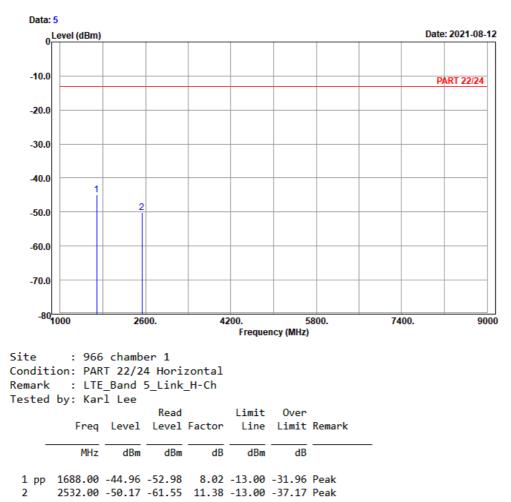


1 pp 1673.00 -52.90 -60.81 7.91 -13.00 -39.90 Peak 2 2509.50 -53.21 -64.49 11.28 -13.00 -40.21 Peak



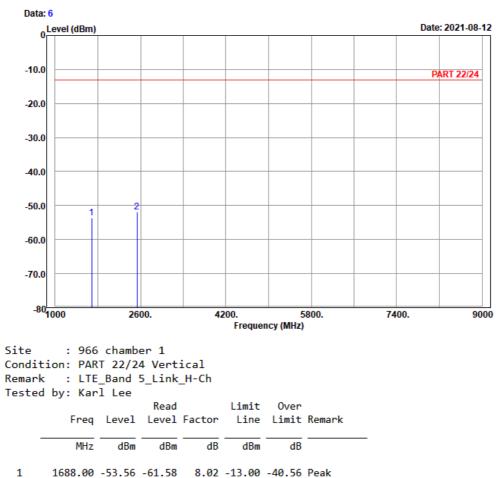
High Channel





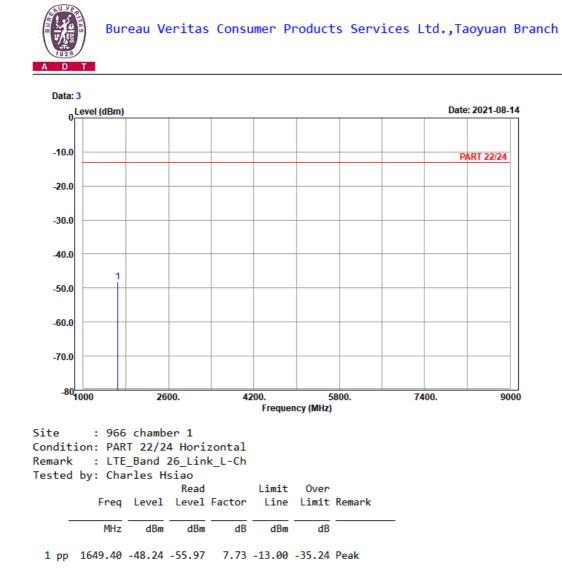






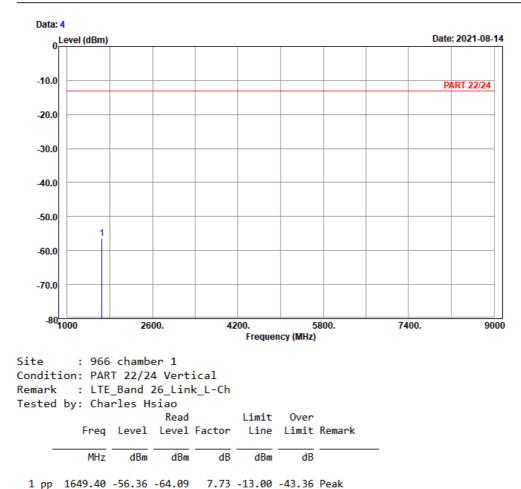
2 pp 2532.00 -51.85 -63.23 11.38 -13.00 -38.85 Peak

LTE Band 26, Channel Bandwidth 1.4MHz Low Channel



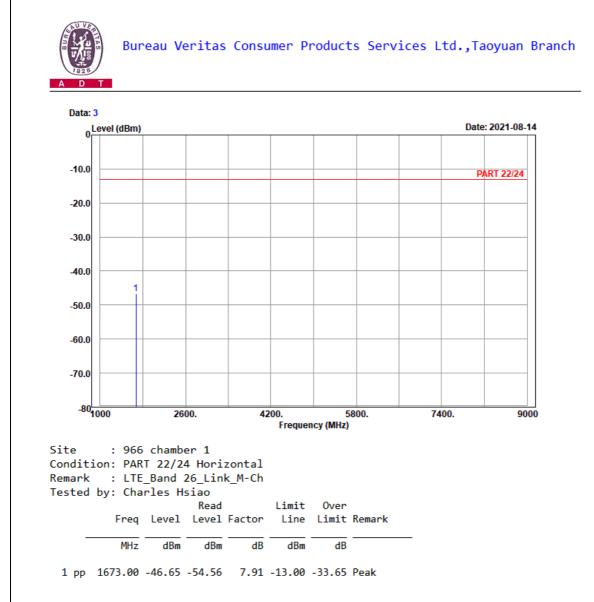






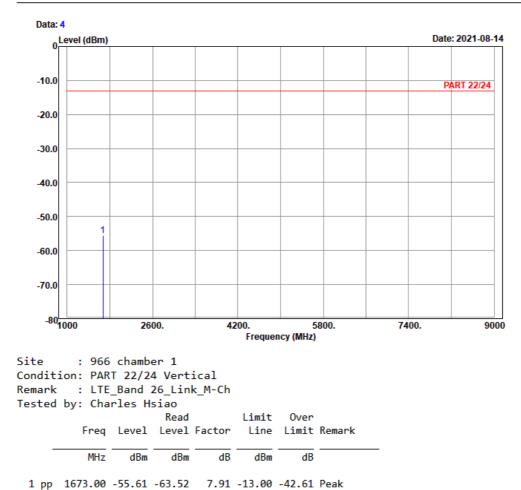


Mid Channel



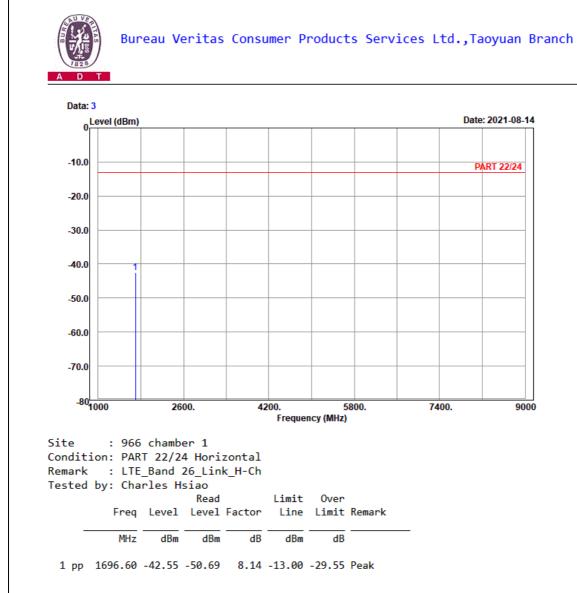






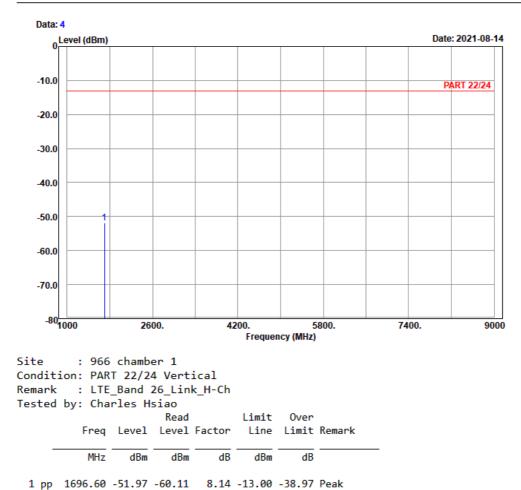


High Channel

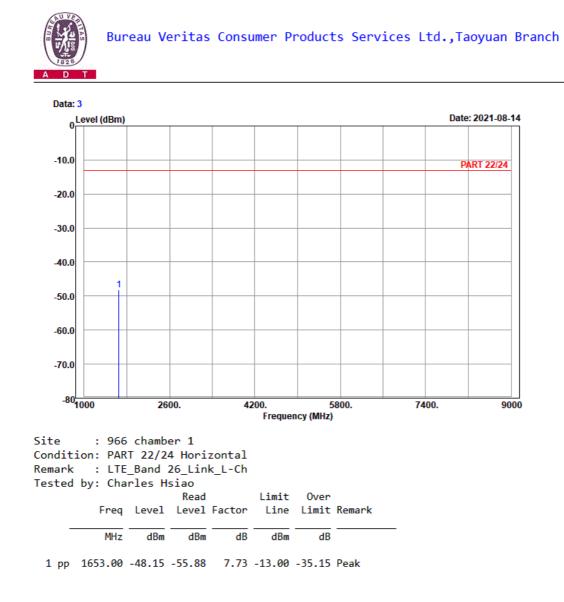






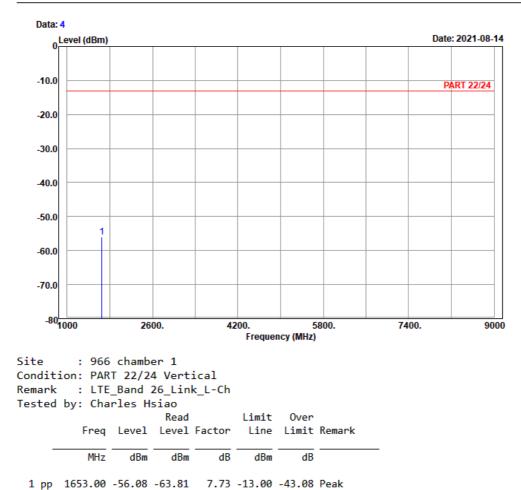


LTE Band 26, Channel Bandwidth 5MHz Low Channel



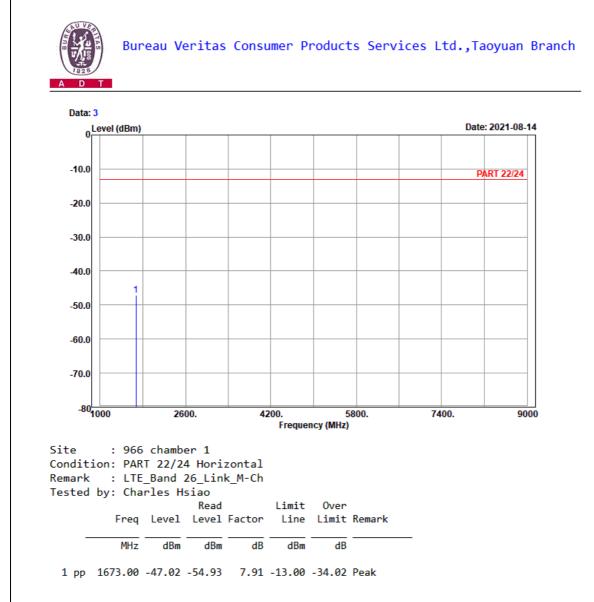






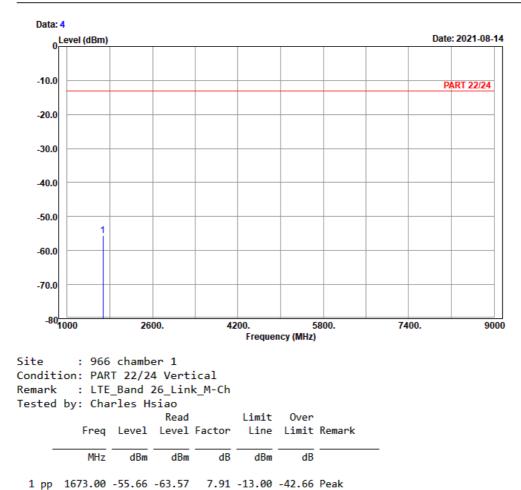


Mid Channel









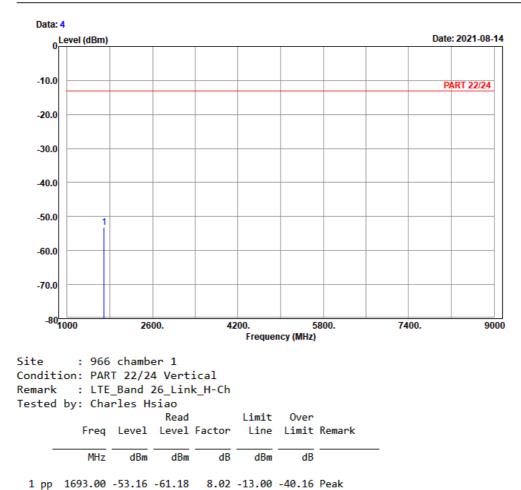


High Channel

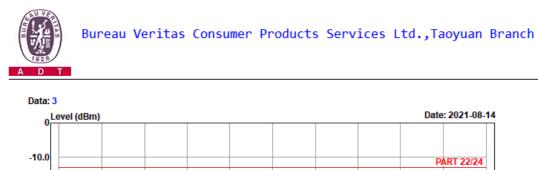


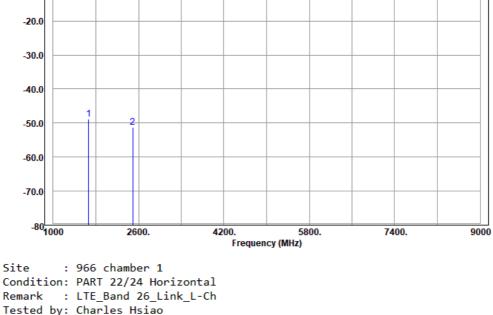






LTE Band 26, Channel Bandwidth 15MHz Low Channel

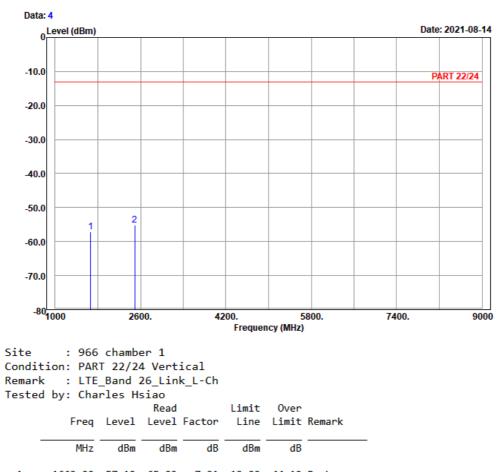




	Freq		Read	Factor			Remark
_	MHz	dBm	dBm	dB	dBm	dB	
1 pp 2	1663.00 2494.50						







1 1663.00 -57.12 -65.03 7.91 -13.00 -44.12 Peak 2 pp 2494.50 -55.08 -66.12 11.04 -13.00 -42.08 Peak

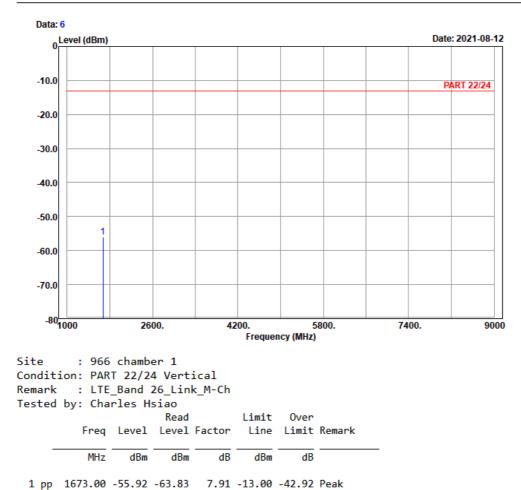


Mid Channel





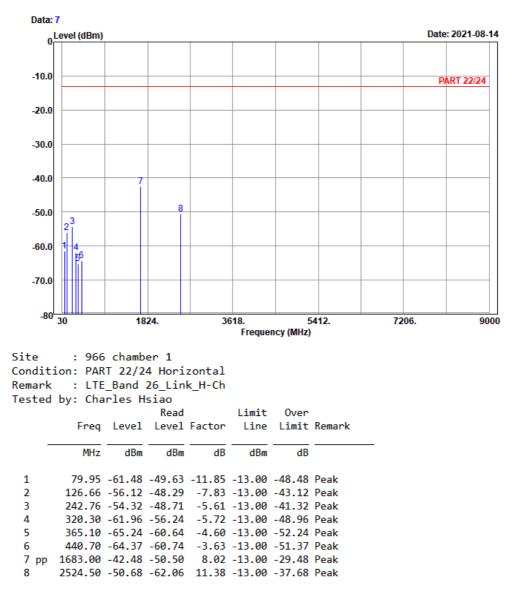






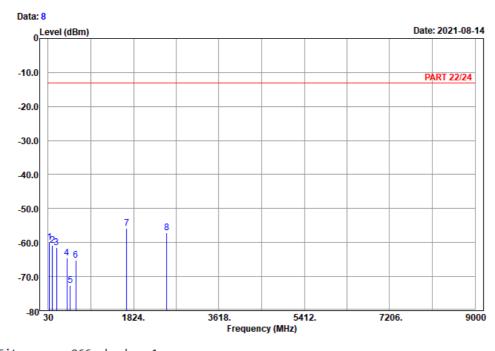
High Channel











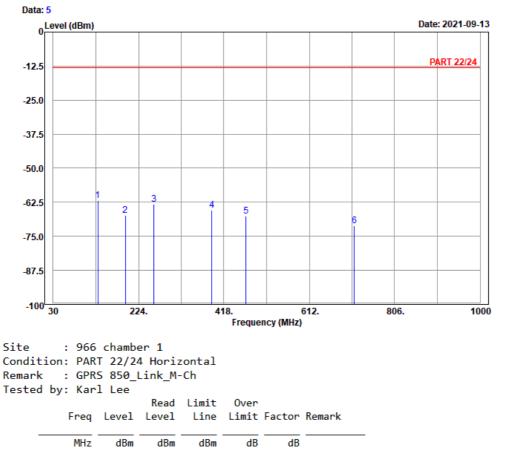
Site : 966 chamber 1 Condition: PART 22/24 Vertical Remark : LTE_Band 26_Link_H-Ch Tested by: Charles Hsiao Read

			2100				
			Read		Limit	0ver	
	Freq	Level	Level	Factor	Line	Limit	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	60.51	-59.95	-45.88	-14.07	-13.00	-46.95	Peak
2	123.42	-60.75	-52.68	-8.07	-13.00	-47.75	Peak
3	203.88	-61.51	-55.38	-6.13	-13.00	-48.51	Peak
4	422.50	-64.62	-61.37	-3.25	-13.00	-51.62	Peak
5	493.90	-72.53	-67.44	-5.09	-13.00	-59.53	Peak
6	608.70	-65.22	-65.55	0.33	-13.00	-52.22	Peak
7 pp	1683.00	-55.81	-63.83	8.02	-13.00	-42.81	Peak
8	2524.50	-57.12	-68.50	11.38	-13.00	-44.12	Peak



Test Mode B GPRS Mid Channel

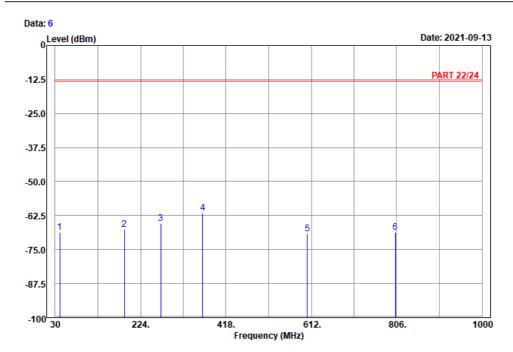


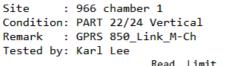


1 pp	131.52	-61.84	-54.18	-13.00	-48.84	-7.66 Peak
2	194.43	-67.33	-61.37	-13.00	-54.33	-5.96 Peak
3	258.69	-63.29	-57.70	-13.00	-50.29	-5.59 Peak
4	391.00	-65.46	-62.25	-13.00	-52.46	-3.21 Peak
5	468.00	-67.70	-63.33	-13.00	-54.70	-4.37 Peak
6	714.40	-71.14	-70.49	-13.00	-58.14	-0.65 Peak









-		Read	Limit	0ver		
Freq	Level	Level	Line	Limit	Factor	Remark

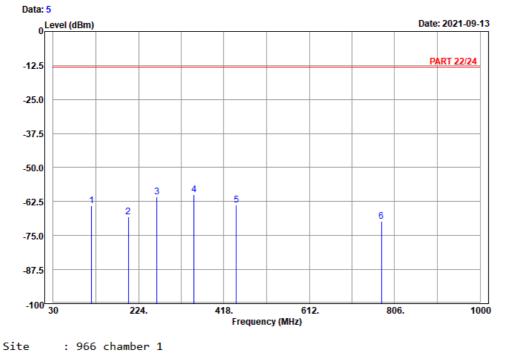
	MHz	dBm	dBm	dBm	dB	dB	
1	40.26	-68.76	-58.96	-13.00	-55.76	-9.80 Peak	
2	187.68	-67.56	-61.86	-13.00	-54.56	-5.70 Peak	
3	270.03	-65.45	-59.77	-13.00	-52.45	-5.68 Peak	
4 pp	365.10	-61.64	-57.04	-13.00	-48.64	-4.60 Peak	
5	603.10	-69.20	-69.59	-13.00	-56.20	0.39 Peak	
6	803.30	-68.57	-70.55	-13.00	-55.57	1.98 Peak	



Test Mode C GPRS Mid Channel



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch

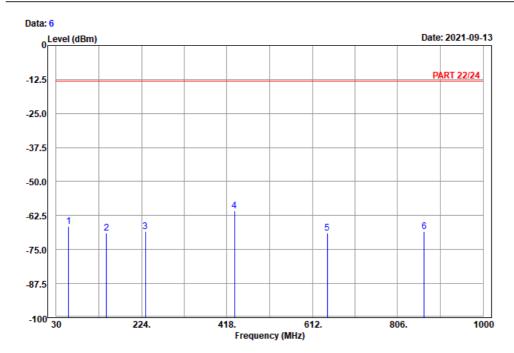


Site : 966 chamber 1 Condition: PART 22/24 Horizontal Remark : GPRS 850_Link_M-Ch Tested by: Karl Lee Read Limit Over

			Neau	LTINITC	over			
	Freq	Level	Level	Line	Limit	Factor	Remark	
	MHz	dBm	dBm	dBm	dB	dB		-
1	117.48	-64.07	-55.63	-13.00	-51.07	-8.44	Peak	
2	200.64	-68.01	-61.84	-13.00	-55.01	-6.17	Peak	
3	265.44	-60.75	-55.10	-13.00	-47.75	-5.65	Peak	
4 pp	349.70	-59.91	-54.53	-13.00	-46.91	-5.38	Peak	
5	446.30	-63.65	-59.89	-13.00	-50.65	-3.76	Peak	
6	776.00	-69.63	-70.04	-13.00	-56.63	0.41	Peak	







Site :	966 chamber 1
Condition:	PART 22/24 Vertical
Remark :	GPRS 850_Link_M-Ch
Tested by:	Karl Lee
	Road Limit

,	Freq	Level		Limit Line	 Factor	Remark	
	MU-	dPm	dBm	dBm	 		-

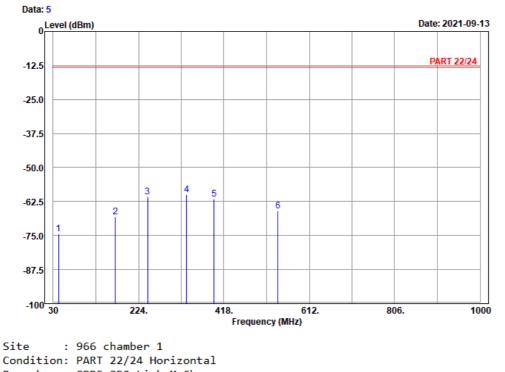
PINZ	ubiii	ubiii	ubiii	ub	ub	
58.35	-66.38	-52.32	-13.00	-53.38	-14.06	Peak
144.48	-68.85	-61.04	-13.00	-55.85	-7.81	Peak
232.77	-68.31	-62.57	-13.00	-55.31	-5.74	Peak
435.10	-60.80	-57.27	-13.00	-47.80	-3.53	Peak
645.80	-69.03	-68.94	-13.00	-56.03	-0.09	Peak
866.30	-68.35	-70.27	-13.00	-55.35	1.92	Peak
	58.35 144.48 232.77 435.10 645.80	58.35 -66.38 144.48 -68.85 232.77 -68.31 435.10 -60.80 645.80 -69.03	58.35 -66.38 -52.32 144.48 -68.85 -61.04 232.77 -68.31 -62.57 435.10 -60.80 -57.27 645.80 -69.03 -68.94	58.35 -66.38 -52.32 -13.00 144.48 -68.85 -61.04 -13.00 232.77 -68.31 -62.57 -13.00 435.10 -60.80 -57.27 -13.00 645.80 -69.03 -68.94 -13.00	58.35 -66.38 -52.32 -13.00 -53.38 144.48 -68.85 -61.04 -13.00 -55.85 232.77 -68.31 -62.57 -13.00 -55.31 435.10 -60.80 -57.27 -13.00 -47.80 645.80 -69.03 -68.94 -13.00 -56.03	58.35 -66.38 -52.32 -13.00 -53.38 -14.06 144.48 -68.85 -61.04 -13.00 -55.85 -7.81 232.77 -68.31 -62.57 -13.00 -55.31 -5.74 435.10 -60.80 -57.27 -13.00 -47.80 -3.53 645.80 -69.03 -68.94 -13.00 -56.03 -0.09 866.30 -68.35 -70.27 -13.00 -55.35 1.92



Test Mode D GPRS Mid Channel



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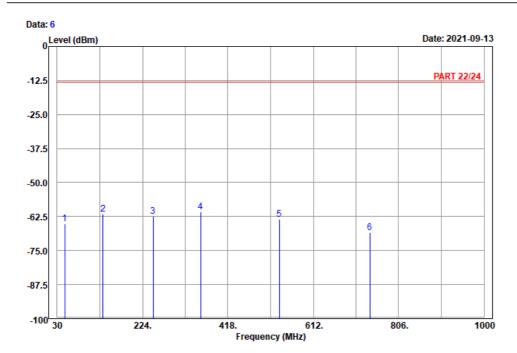


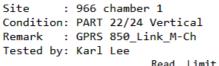
Condition: PART 22/24 Horizontal Remark : GPRS 850_Link_M-Ch Tested by: Karl Lee Read Limit Over Freq Level Level Line Limit Factor Remark

	Freq	rever	rever	Line	LIMIC	Factor	кешагк
	MHz	dBm	dBm	dBm	dB	dB	
1	42.15	-74.30	-63.31	-13.00	-61.30	-10.99	Peak
2	171.48	-67.99	-61.49	-13.00	-54.99	-6.50	Peak
3	244.92	-60.80	-55.23	-13.00	-47.80	-5.57	Peak
4 pp	332.90	-59.95	-54.37	-13.00	-46.95	-5.58	Peak
5	395.90	-61.72	-58.77	-13.00	-48.72	-2.95	Peak
6	540.80	-66.07	-63.77	-13.00	-53.07	-2.30	Peak









Freq	Level	Read Level	Limit Line	 Factor	Remark	
 MLI-	dBm	dBm	dBm	 		-

	MHZ	dBm	dBm	dBm	dB	dB	
1	47.28	-65.00	-51.89	-13.00	-52.00	-13.11	Peak
2	133.95	-61.68	-54.02	-13.00	-48.68	-7.66	Peak
3	247.62	-62.45	-56.90	-13.00	-49.45	-5.55	Peak
4 pp	356.00	-60.83	-55.76	-13.00	-47.83	-5.07	Peak
5	534.50	-63.58	-60.78	-13.00	-50.58	-2.80	Peak
6	740.30	-68.43	-67.30	-13.00	-55.43	-1.13	Peak



5 Pictures of Test Arrangements

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



Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and 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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Email: <u>service.adt@tw.bureauveritas.com</u> Web Site: <u>www.bureauveritas-adt.com</u>

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

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