

3.5 CONDUCTED SPURIOUS EMISSIONS

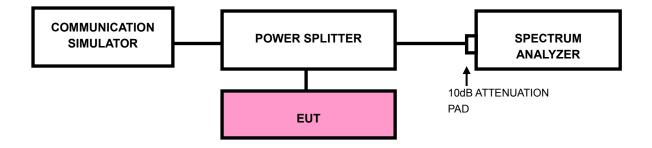
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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.

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 19.1GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP

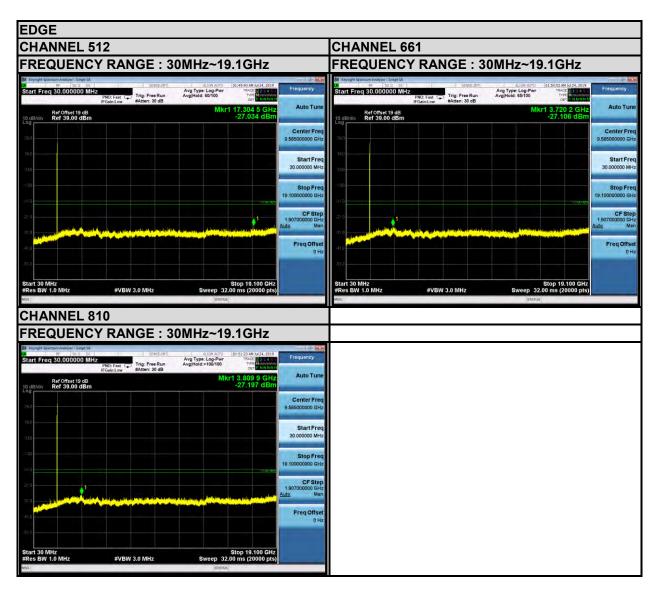




3.5.4 TEST RESULTS









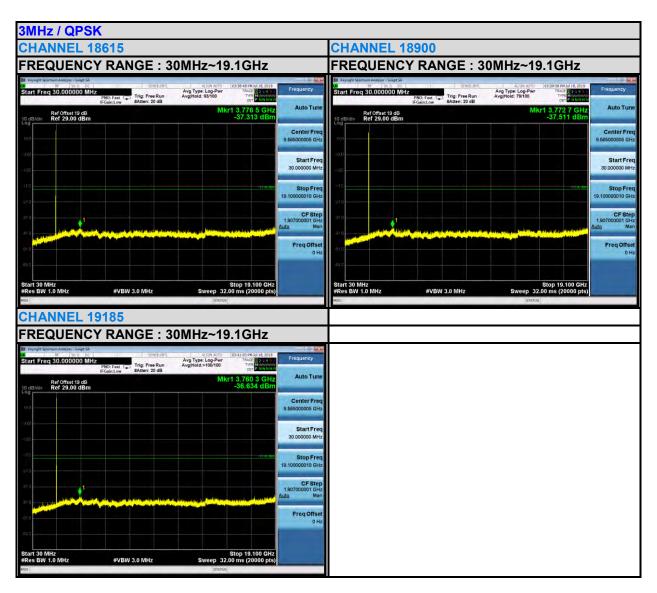




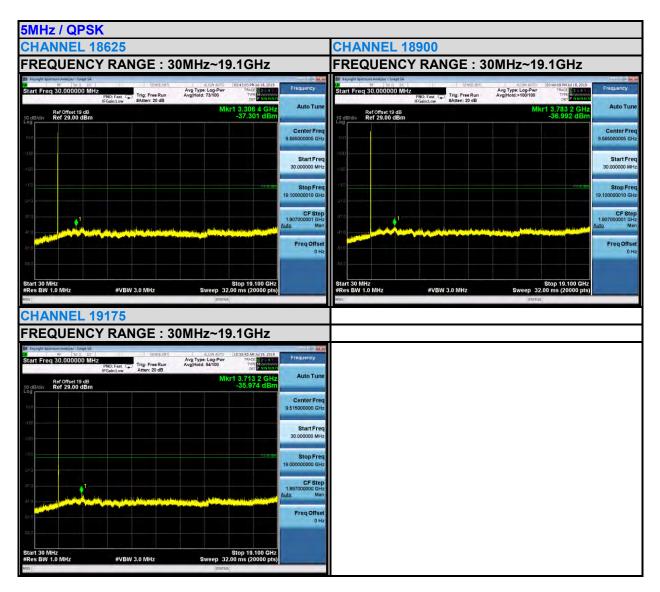
LTE BAND 2



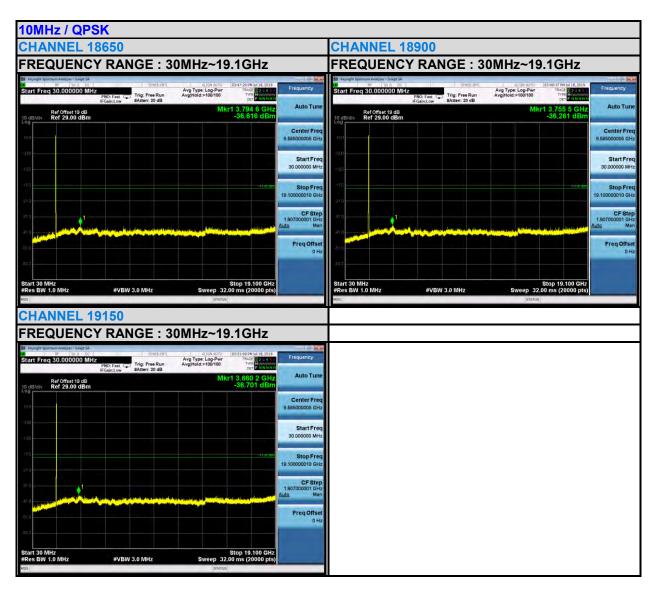




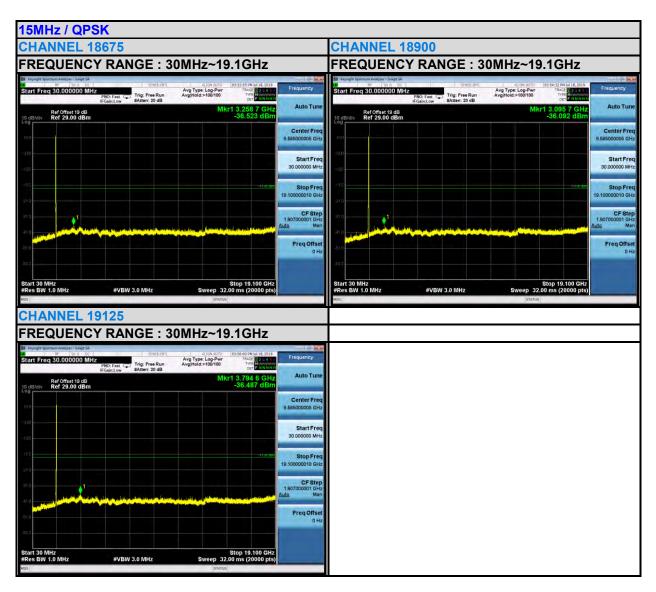






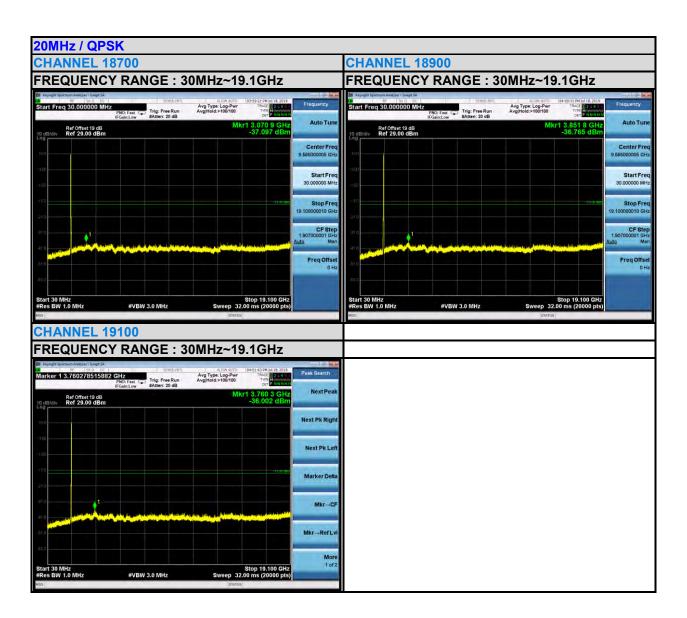






Page 93 of 186







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. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.

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

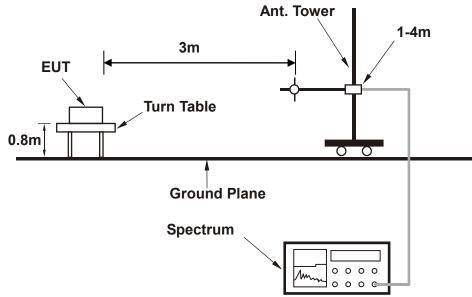
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

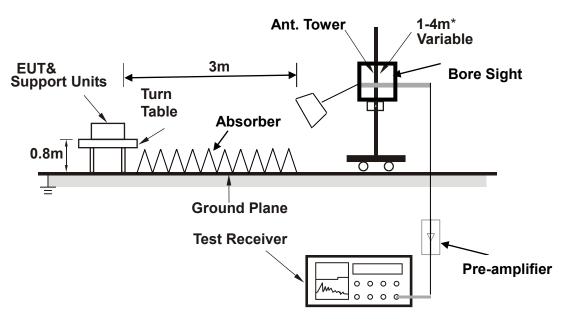


3.6.4 TEST SETUP

< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

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Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR

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

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3.6.5 TEST RESULTS

WWAN-ANT-0

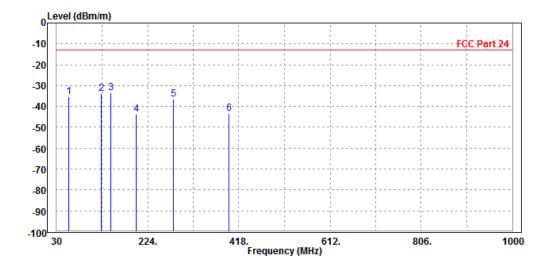
BELOW 1GHz WORST-CASE DATA

30 MHz - 1GHz data:

EDGE 1900:

MODE TX channel 661		FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V 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	56.350	-35.19	-42.16	-13.00	-22.19	6.97	Peak	Horizontal
2	125.340	-33.85	-42.51	-13.00	-20.85	8.66	Peak	Horizontal
3 PP	145.230	-33.30	-42.57	-13.00	-20.30	9.27	Peak	Horizontal
4	199.520	-43.86	-54.65	-13.00	-30.86	10.79	Peak	Horizontal
5	278.610	-36.61	-50.24	-13.00	-23.61	13.63	Peak	Horizontal
6	396.850	-43.38	-60.48	-13.00	-30.38	17.10	Peak	Horizontal

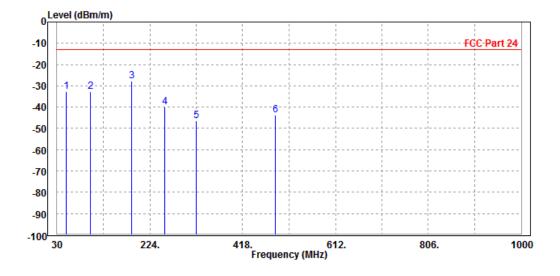


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MODE	TX channel 661	FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level	Read Level	Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	——dB	dB/m		
1	48.960	-32.81	-40.25	-13.00	-19.81	7.44	Peak	Vertical
2	99.560	-32.83	-42.58	-13.00	-19.83	9.75	Peak	Vertical
3 PP	185.460	-27.70	-38.21	-13.00	-14.70	10.51	Peak	Vertical
4	255.420	-39.85	-53.16	-13.00	-26.85	13.31	Peak	Vertical
5	321.150	-46.56	-61.42	-13.00	-33.56	14.86	Peak	Vertical
6	485.630	-43.78	-62.28	-13.00	-30.78	18.50	Peak	Vertical



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ABOVE 1GHz DATA

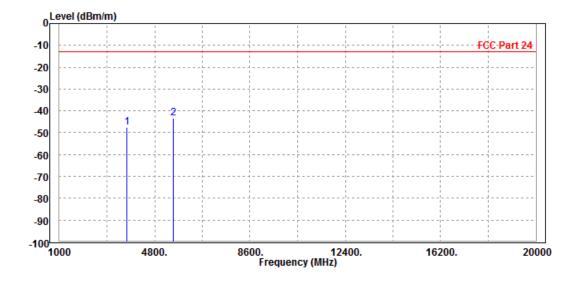
Note: For higher frequency, the emission is too low to be detected.

PCS 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
_	3702.000 5556.000							Horizontal Horizontal



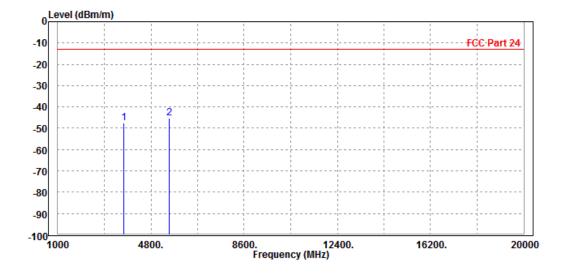
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MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 P	3702.000 P 5556.000							Vertical Vertical



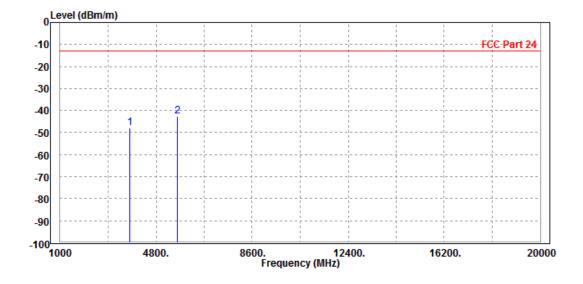


CH 661

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MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPLIT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

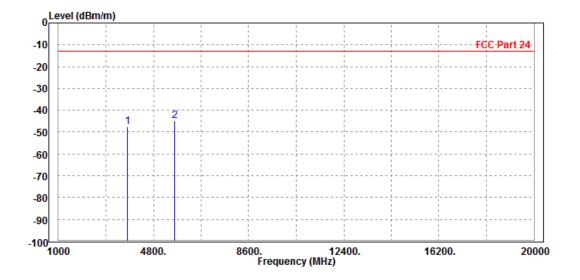
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3755.000 5636.000							Horizontal Horizontal





MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2		3755.000 5640.000							Vertical Vertical



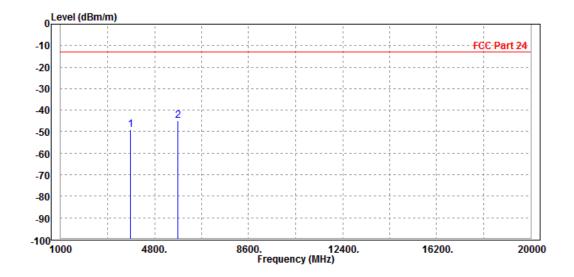
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CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

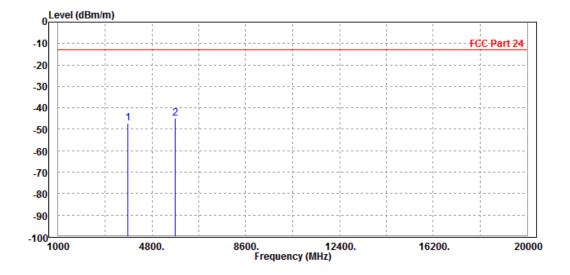
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_								
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3820.000	-48.92	-52.62	-13.00	-35.92	3.70	Peak	Horizontal
2 PP	5732.000	-44.98	-54.21	-13.00	-31.98	9.23	Peak	Horizontal





MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter					
TESTED BY	Star Le							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
3820.000 P 5732.000							Vertical Vertical

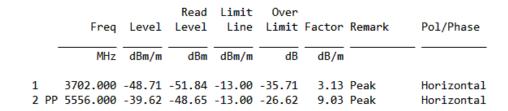


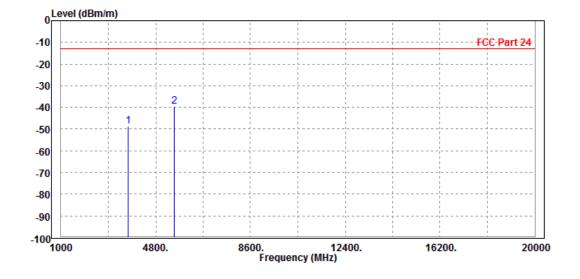


EDGE 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter					
TESTED BY	ESTED BY Star Le							
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								



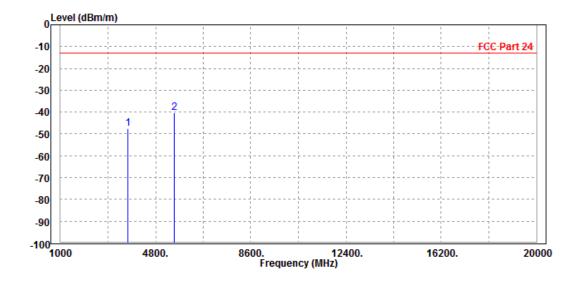


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MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter					
TESTED BY	ED BY Star Le							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
_	3702.000 5556.000							Vertical Vertical

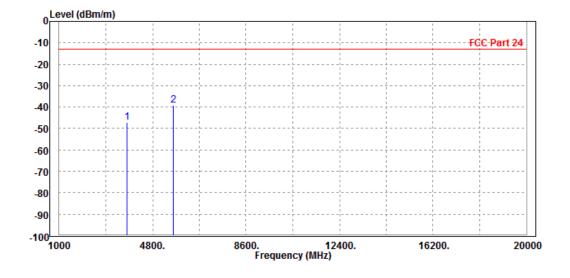




CH 661

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

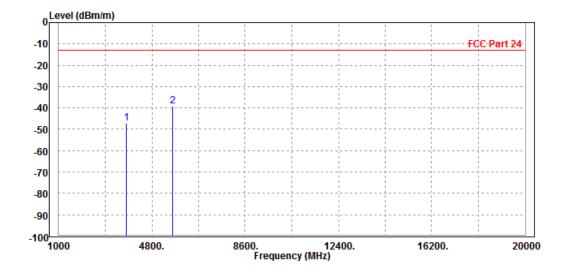
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
:	1 2 PP	3755.000 5640.000							Horizontal Horizontal





MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	deg. C, 70%RH						
TESTED BY	Star Le							
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-47 21	-51.06	-13.00	-34 21	3.85	Peak	Vertical
_	3,33,000	.,	52.00	13.00			· cuit	
2 PF	5640.000	-38.99	-47.25	-13.00	-25.99	8.26	Peak	Vertical
_ '''	30.000	50.55		13.00	23.33	0.20	· Con	TC. CICUI



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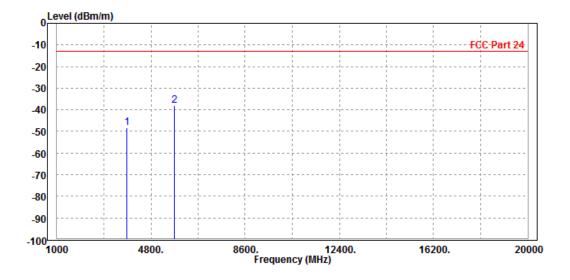
Fax: +86 755 8869 6577



CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIIT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

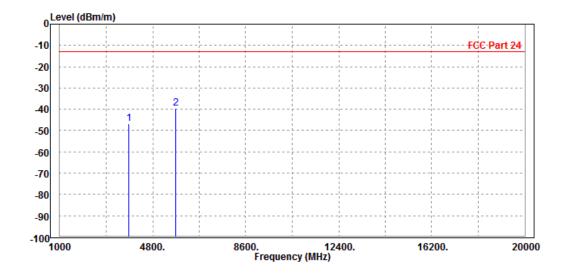
		Гпол	Laval		Limit		Fastan	Damanle	Dol/Dhasa
		Freq	revei	revei	Line	LIMIC	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		3820.000	-48.43	-52.13	-13.00	-35.43	3.70	Peak	Horizontal
2	PP	5732.000	-38.12	-47.35	-13.00	-25.12	9.23	Peak	Horizontal





MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter		
TESTED BY	FED BY Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

		Read	Limit	0ver			
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	•		•		•		
1 3820.000	-46.84	-51.02	-13.00	-33.84	4.18	Peak	Vertical
1 3020.000	10.01	31.02	13.00	33.01		. can	ver ereur
2 PP 5732.000	-39.41	-47.85	-13.00	-26.41	8.44	Peak	Vertical



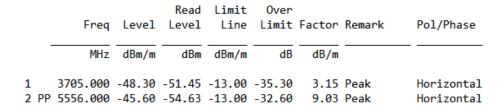
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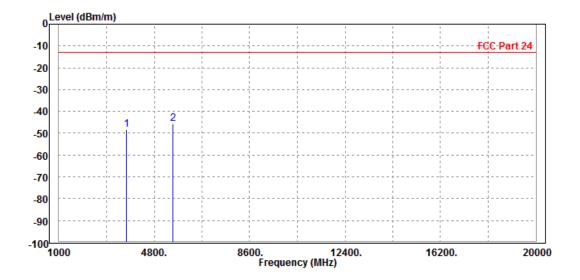


WCDMA Band II

CH 9262

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	TESTED BY Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						



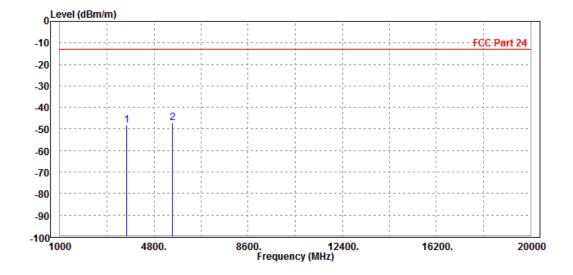


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MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
_	3705.000 5556.000							Vertical Vertical

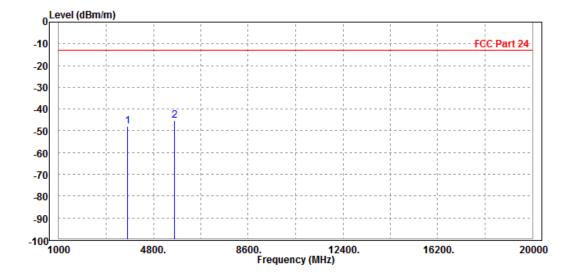




CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	TESTED BY Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

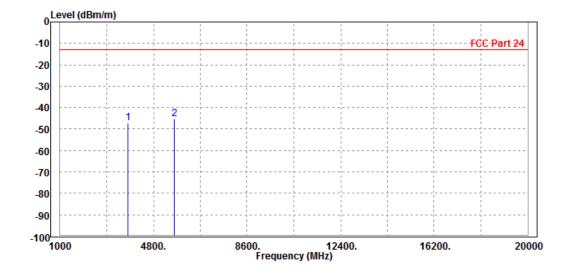
	Frea	Level		Limit		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-47.95	-51.34	-13.00	-34.95	3.39	Peak	Horizontal
2 P	P 5636.000	-45.13	-54.25	-13.00	-32.13	9.12	Peak	Horizontal





MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

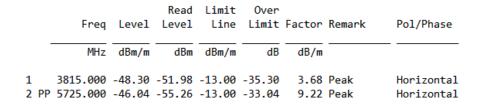
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3755.000 5640.000							Vertical Vertical

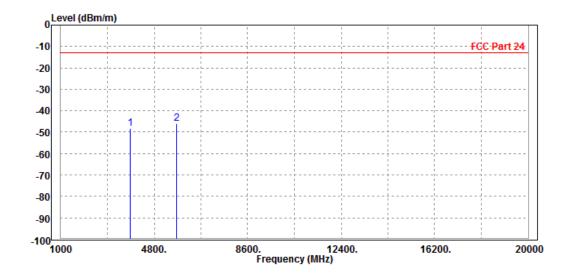




CH 9538

MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIIT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							





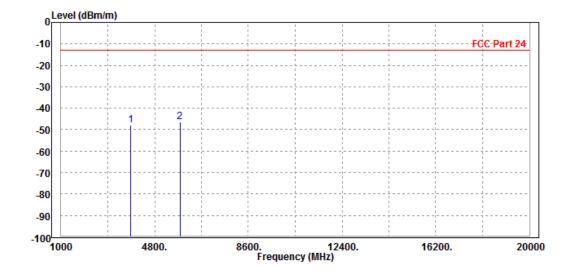
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Fax: +86 755 8869 6577



MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz		
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter		
TESTED BY	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M					

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3815.000 PP 5825.000							Vertical Vertical



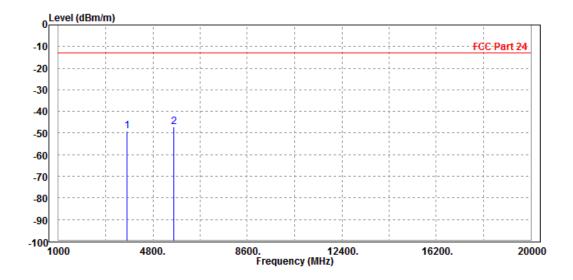


LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

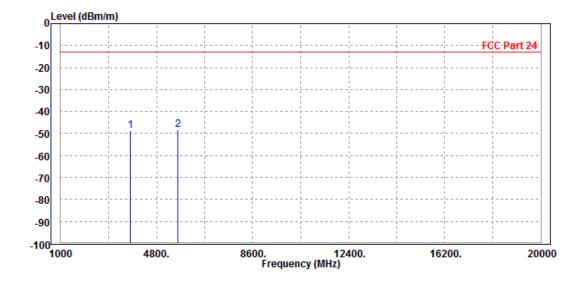
	_			Limit				
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	1112	abiii, iii	abiii	abiii, iii	u.	ub/		
1	3755.000	-49.10	-52.49	-13.00	-36.10	3.39	Peak	Horizontal
2 PP	5640.000	-47.19	-56.31	-13.00	-34.19	9.12	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPUI POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3755.000 5640.000							Vertical Vertical

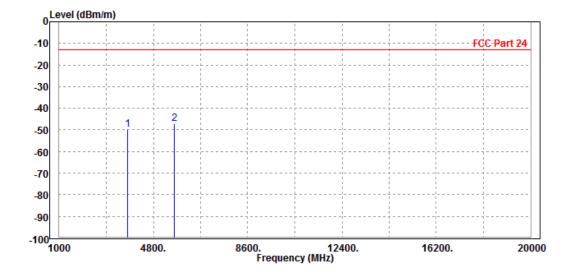




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

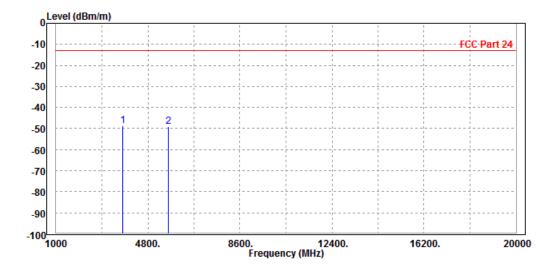
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
		•		•		•		
1	3755.000	-49.75	-53.14	-13.00	-36.75	3.39	Peak	Horizontal
_								
2 P	P 5640.000	-47.11	-56.23	-13.00	-34.11	9.12	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS 23deg. C, 70%RH		INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 P 2	PP 3755.000 5640.000							Vertical Vertical



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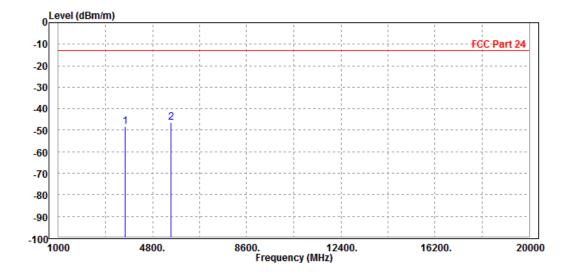


CHANNEL BANDWIDTH: 5MHz / QPSK

CH18625

MODE	TX channel 18625	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIII POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

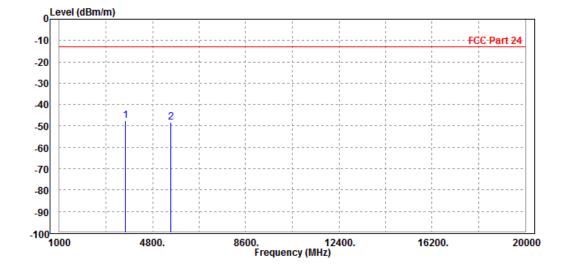
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3705.000 5556.000							Horizontal Horizontal





MODE	TX channel 18625	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2		3705.000 5556.000							Vertical Vertical

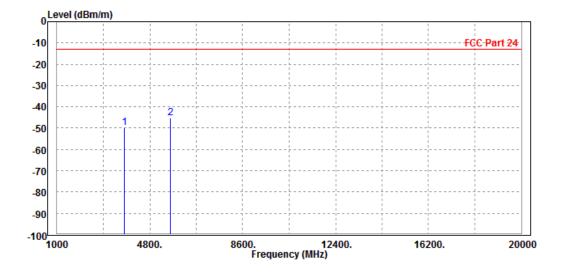




CH18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

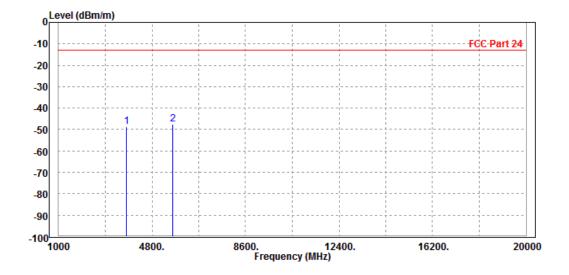
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-49.89	-53.28	-13.00	-36.89	3.39	Peak	Horizontal
2 F	PP 5640.000	-45.17	-54.29	-13.00	-32.17	9.12	Peak	Horizontal





MODE	TX channel 18900		Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3755.000	-48.63	-52.48	-13.00	-35.63	3.85		Vertical
2 PP	5640.000	-47.63	-55.89	-13.00	-34.63	8.26		Vertical

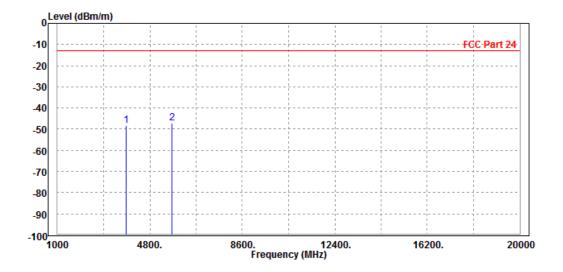




CH19175

MODE	TX channel 19175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	——dB	dB/m		
1 2 PP	3815.000 5725.000							Horizontal Horizontal

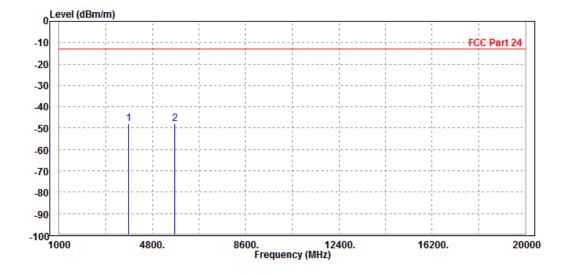


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MODE	TX channel 19175		Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PF	3815.000 5725.000							Vertical Vertical

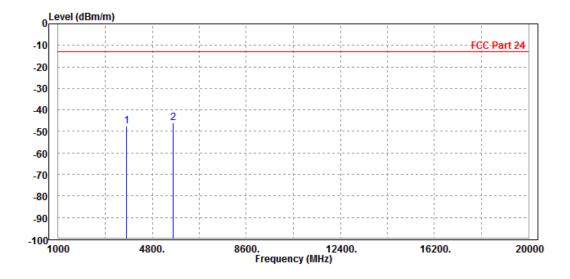




CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIII POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

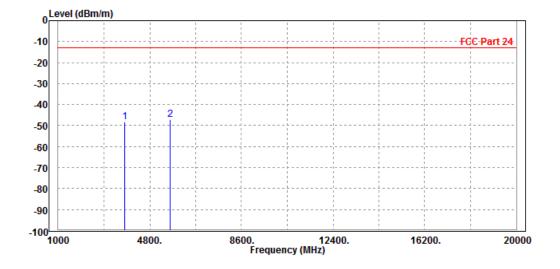
				Read	Limit	0ver			
		Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		3755.000	-47.63	-51.02	-13.00	-34.63	3.39	Peak	Horizontal
2	PP	5640.000	-46.19	-55.31	-13.00	-33.19	9.12	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3755.000 5636.000							Vertical Vertical

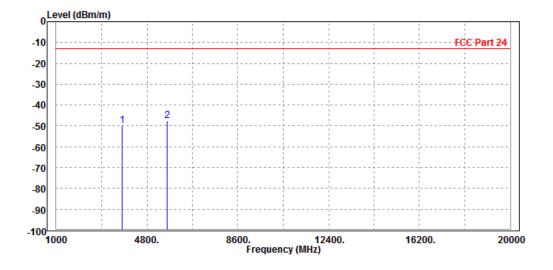




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter					
TESTED BY	Star Le	Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

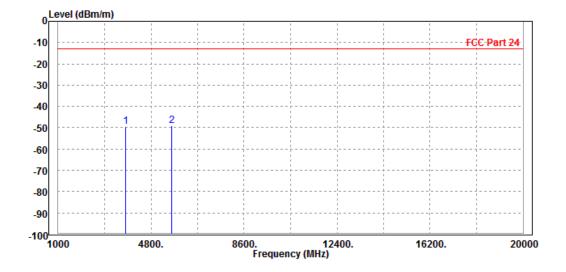
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3755.000 5640.000							Horizontal Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase	
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m			
	3755.000 5640.000							Vertical Vertical	

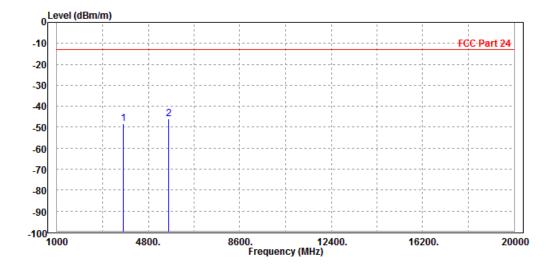




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz					
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter					
TESTED BY	Star Le	Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								

				Read	Limit	0ver			
		Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
		MHz	dBm/m	dBm	dBm/m	dB	dB/m		
					-				
1		3755.000	-48.46	-51.85	-13.00	-35.46	3.39	Peak	Horizontal
2	PP	5640.000	-46.01	-55.13	-13.00	-33.01	9.12	Peak	Horizontal

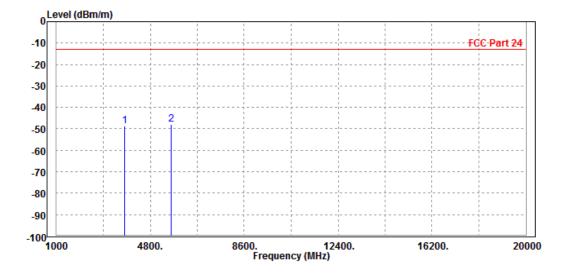


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MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
3755.000 5640.000							Vertical Vertical





WWAN-ANT-1

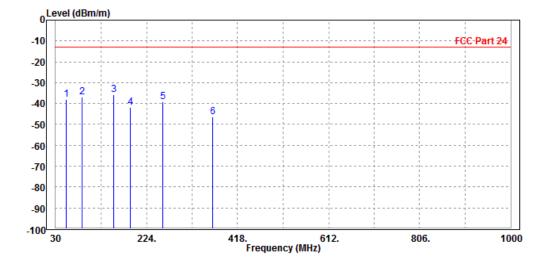
BELOW 1GHz WORST-CASE DATA

30 MHz – 1GHz data:

PCS 1900:

MODE	TX channel 661	FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

	Freq	Level		Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	52.310	-38.21	-45.26	-13.00	-25.21	7.05	Peak	Horizontal
2	86.520	-36.92	-45.28	-13.00	-23.92	8.36	Peak	Horizontal
3 PP	154.230	-35.59	-45.63	-13.00	-22.59	10.04	Peak	Horizontal
4	189.540	-41.80	-52.34	-13.00	-28.80	10.54	Peak	Horizontal
5	258.420	-39.12	-52.31	-13.00	-26.12	13.19	Peak	Horizontal
6	365.450	-46.22	-62.35	-13.00	-33.22	16.13	Peak	Horizontal

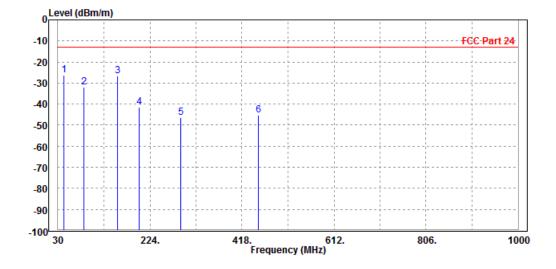


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MODE	TX channel 661	FREQUENCY RANGE	Below 1000MHz			
ENVIRONMENTAL CONDITIONS	123ded C: 70%RH		DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
_	MHz	dBm/m	dBm	dBm/m	dB	dB/m		_
1 PP	42.150	-26.27	-37.35	-13.00	-13.27	11.08	Peak	Vertical
2	85.420	-31.90	-40.36	-13.00	-18.90	8.46	Peak	Vertical
3	155.240	-26.52	-36.59	-13.00	-13.52	10.07	Peak	Vertical
4	201.320	-41.48	-52.34	-13.00	-28.48	10.86	Peak	Vertical
5	289.520	-46.22	-60.21	-13.00	-33.22	13.99	Peak	Vertical
6	452.320	-45.22	-63.25	-13.00	-32.22	18.03	Peak	Vertical





ABOVE 1GHz DATA

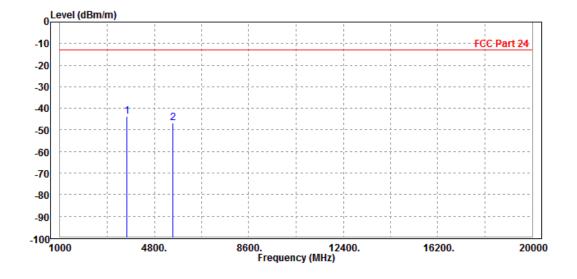
Note: For higher frequency, the emission is too low to be detected.

PCS 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

	Fred	[مربو]		Limit		Factor	Remark	Pol/Phase
_			Level				IVEIII AI K	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3702.000	-43.62	-46.75	-13.00	-30.62	3.13	Peak	Horizontal
2	5556.000	-46.75	-55.78	-13.00	-33.75	9.03	Peak	Horizontal

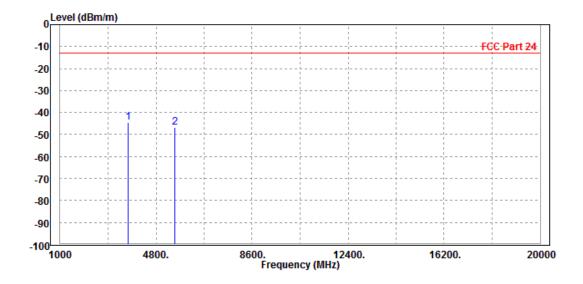


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MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	123ded C 70%RH		DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	——dB	dB/m		
1 PP 2	3702.000 5556.000							Vertical Vertical

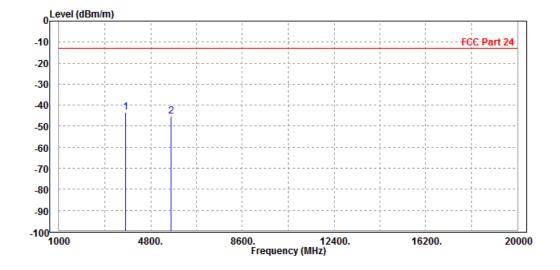




CH 661

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPLIT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3755.000	-43.20	-46.59	-13.00	-30.20	3.39	Peak	Horizontal
2	5636.000	-45.09	-54.21	-13.00	-32.09	9.12	Peak	Horizontal

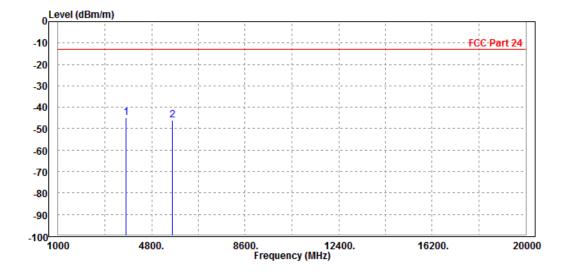


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MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	123ded C 70%RH		DC 5V/9V/12V from adapter			
TESTED BY	Star Le	Star Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		_
1 PF	3755.000	-44.77	-48.62	-13.00	-31.77	3.85	Peak	Vertical
2	5640.000	-46.09	-54.35	-13.00	-33.09	8.26	Peak	Vertical

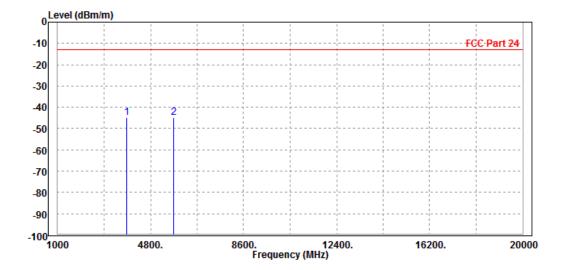




CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 P 2	P 3820.000 5732.000							Horizontal Horizontal



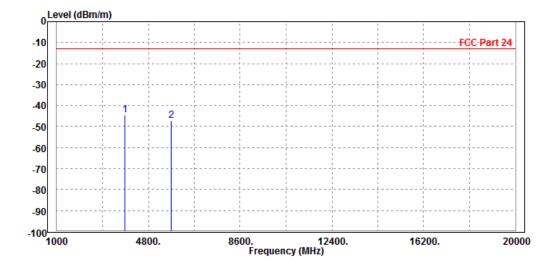
Tel: +86 755 8869 6566

Fax: +86 755 8869 6577



MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	-							
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
		,		,		,		
1 DD	3820.000	11 31	48 50	13 00	31 3/	/ 19	Poak	Vertical
T LL	3020.000	-44.54	-40.32	-13.00	-51.54	4.10	reak	vencical
2	5732.000	-47.20	-55.64	-13.00	-34.20	8.44	Peak	Vertical

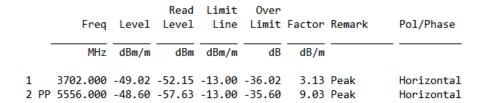


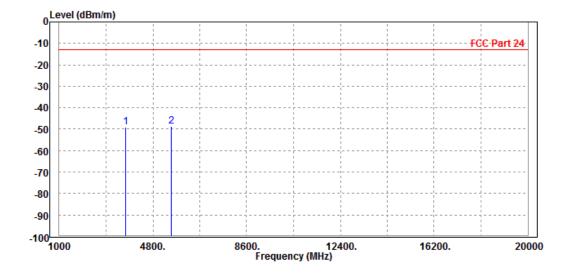


EDGE 1900:

CH 512

MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	ESTED BY Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

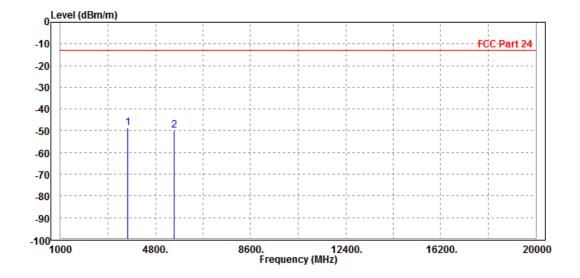






MODE	TX channel 512	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3702.000 5556.000							Vertical Vertical

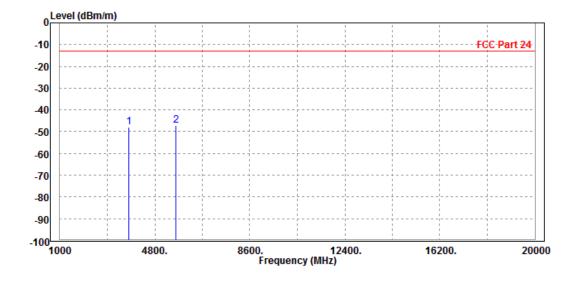




CH 661

MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	TESTED BY Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

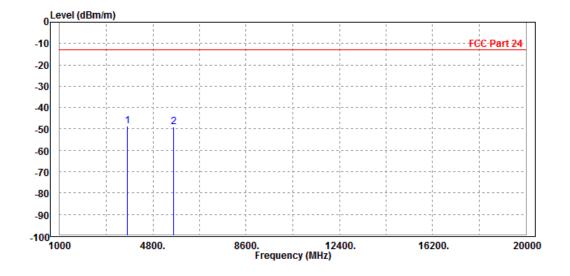
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	3755.000 5640.000							Horizontal Horizontal





MODE	TX channel 661	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

				Limit		_	_		
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase	
-									
	MHZ	dBm/m	dBm	dBm/m	dВ	dB/m			
							_		
1 PP	3755.000	-48.49	-52.34	-13.00	-35.49	3.85	Peak	Vertical	
2	5640.000	-49.16	-57.42	-13.00	-36.16	8.26	Peak	Vertical	



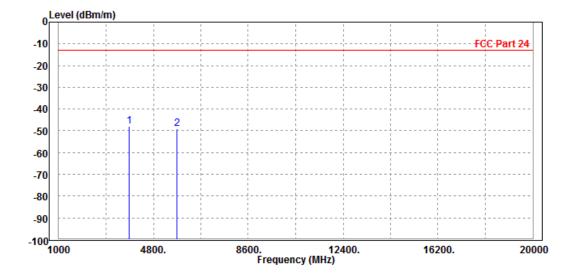
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CH 810

MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	TESTED BY Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

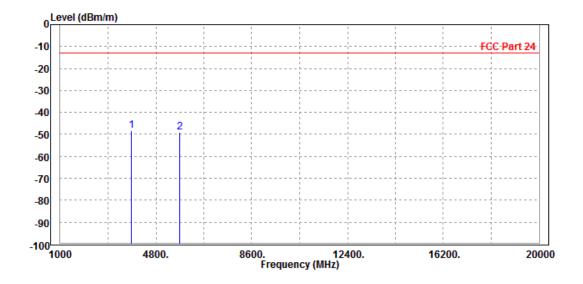
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3820.000	-47.94	-51.64	-13.00	-34.94	3.70	Peak	Horizontal
2	5732.000	-49.01	-58.24	-13.00	-36.01	9.23	Peak	Horizontal





MODE	TX channel 810	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTEN	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

				Limit				
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PI	9 3820.000	-48.16	-52.34	-13.00	-35.16	4.18	Peak	Vertical
2	5732.000	-49.02	-57.46	-13.00	-36.02	8.44	Peak	Vertical

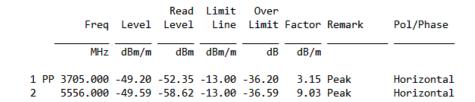


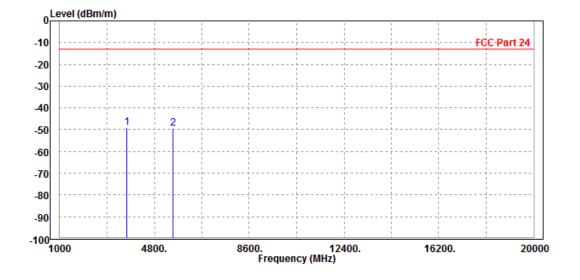


WCDMA Band II

CH 9262

MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

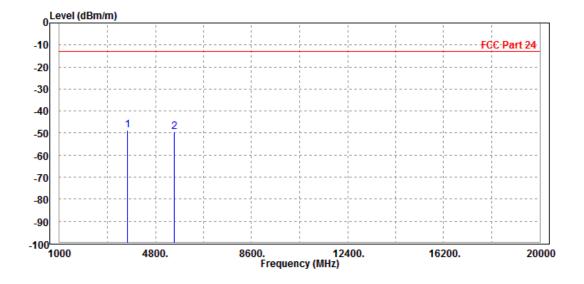






MODE	TX channel 9262	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	_							
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
						,		
1 PP	3705.000	-48 58	-52 18	-13 00	-35 58	3 60	Peak	Vertical
	3,03.000	40.50	32.10	13.00	33.30	3.00	I Cuit	VCI CICUI
2	5556.000	-49.40	-57.48	-13.00	-36.40	8.08	Peak	Vertical



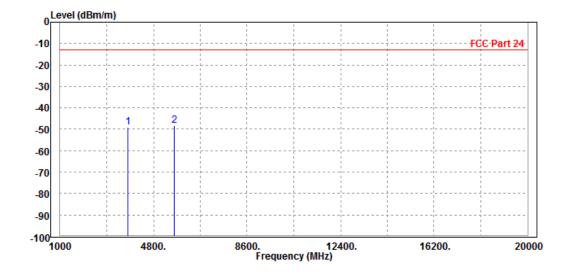
Tel: +86 755 8869 6566



CH 9400

MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

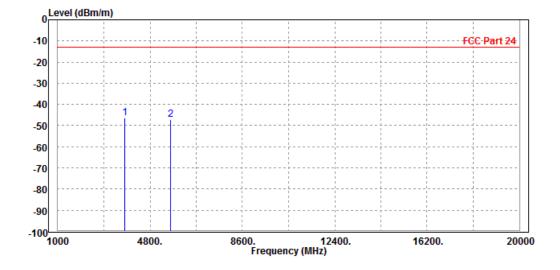
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	d B	dB/m		
	3755.000 5636.000							Horizontal Horizontal





MODE	TX channel 9400	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PF	3755.000 5640.000							Vertical Vertical



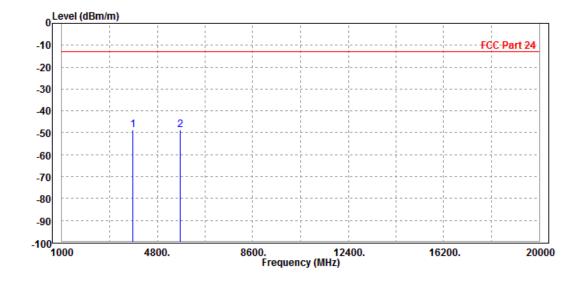
Email: customerservice.dg@cn.bureauveritas.com



CH 9538

MODE	TX channel 9538	channel 9538 FREQUENCY RANGE				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIIT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2		3815.000 5725.000							Horizontal Horizontal

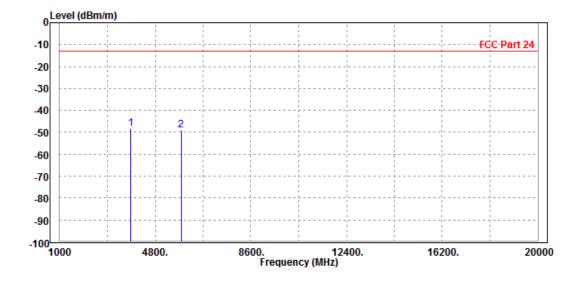


Tel: +86 755 8869 6566



MODE	TX channel 9538	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 P 2	P 3815.000 5825.000							Vertical Vertical



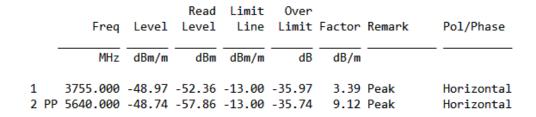
Tel: +86 755 8869 6566

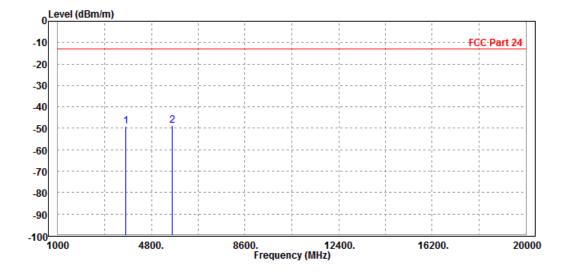


LTE Band 2

CHANNEL BANDWIDTH: 1.4MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						





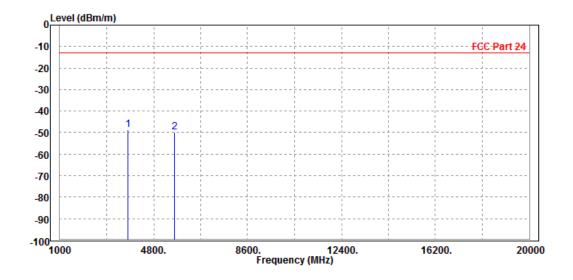
Page 153 of 186

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MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
		,		,		,		
1 PI	P 3755.000	-48 51	-52 36	-13 00	-35 51	3 85	Peak	Vertical
	3733.000	40.51	32.30	13.00	33.31	5.05	I Cuk	VCI CICUI
2	5640.000	-49.95	-58.21	-13.00	-36.95	8.26	Peak	Vertical

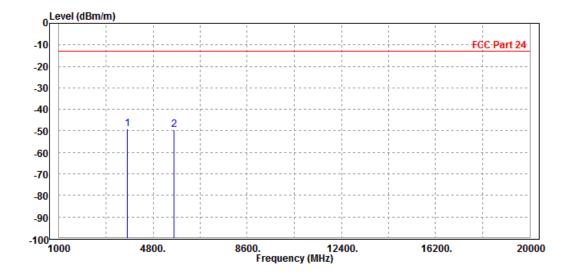




CHANNEL BANDWIDTH: 3MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

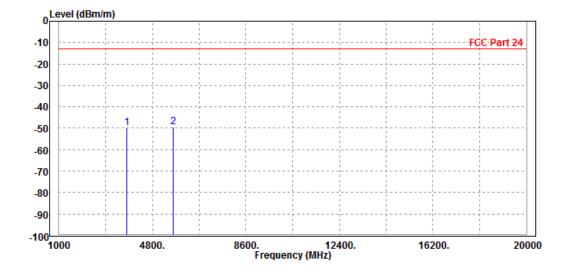
			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_								
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3755.000	-48.95	-52.34	-13.00	-35.95	3.39	Peak	Horizontal
2	5640.000	-49.50	-58.62	-13.00	-36.50	9.12	Peak	Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PP	3755.000 5640.000							Vertical Vertical



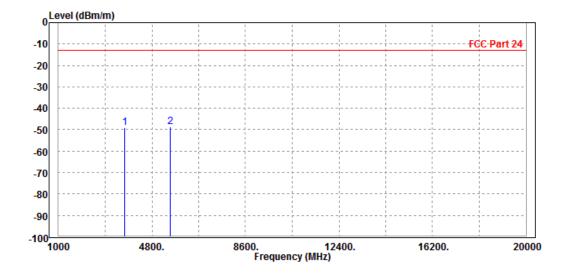


CHANNEL BANDWIDTH: 5MHz / QPSK

CH 18625

MODE	TX channel 18625	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIII POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	ar Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

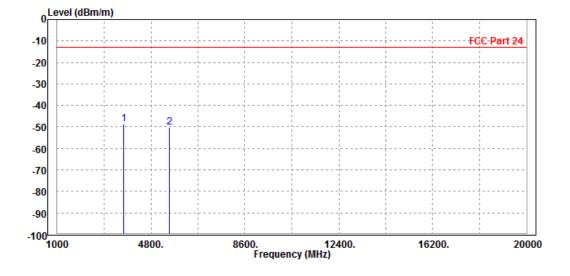
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2 PF	3705.000 5556.000							Horizontal Horizontal





MODE	TX channel 18625	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	tar Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

			Read	Limit	0ver			
	Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
_								
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3	3705.000	-48.65	-52.25	-13.00	-35.65	3.60	Peak	Vertical
2 5	5556.000	-50.08	-58.16	-13.00	-37.08	8.08	Peak	Vertical

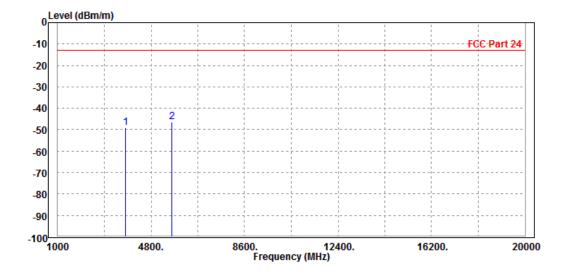




CH18900

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIIT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	tar Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

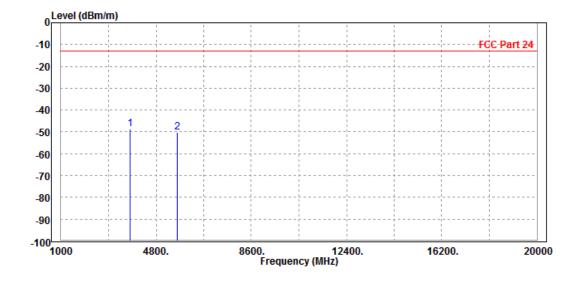
	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	3755.000 5640.000							Horizontal Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	ar Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

	Гила	Laval		Limit		Cooton.	Damanle	Del /Dhasa	
	Freq	revei	revei	Line	Limit	Factor	Remark	Pol/Phase	
	MHz	dBm/m	dBm	dBm/m	dB	dB/m			
1 PP	3755.000	-48.51	-52.36	-13.00	-35.51	3.85		Vertical	
2	5640.000	-50.16	-58.42	-13.00	-37.16	8.26		Vertical	



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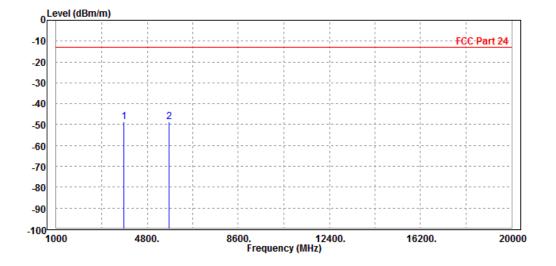
Fax: +86 755 8869 6577



CH19175

MODE	TX channel 19175	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	ar Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

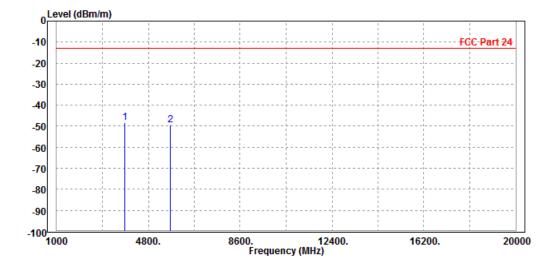
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		-
1		3815.000 5725.000							Horizontal Horizontal





MODE	TX channel 19175	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le	ar Le				
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

Freq	Level		Limit Line		Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3815.000 2 5725.000							Vertical Vertical

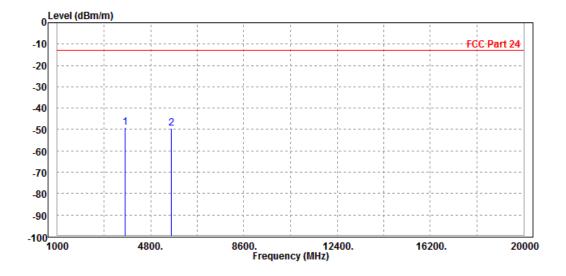




CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	IINPIII POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le						
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							

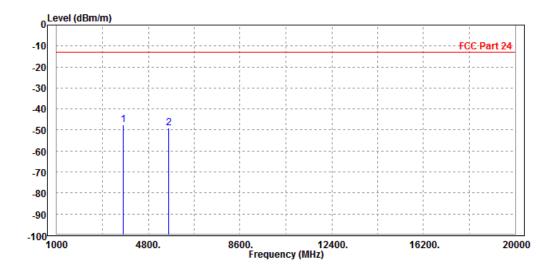
	Freq	Level			Over Limit	Factor	Remark	Pol/Phase
-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 2	3755.000 5640.000							Horizontal Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

	Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 2	PP 3755.000 5636.000							Vertical Vertical

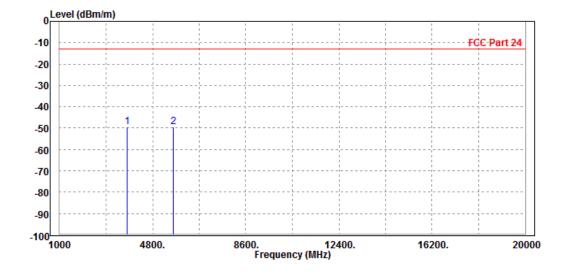




CHANNEL BANDWIDTH: 15MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

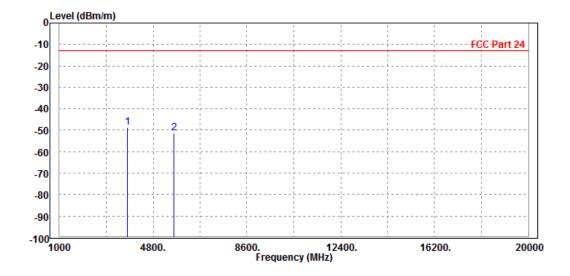
	Frea	Level			Over Limit	Factor	Remark	Pol/Phase
-			——dBm			dB/m		
1 PP	3755.000	-49.30	-52.69	-13.00	-36.30	3.39	Peak	Horizontal
2	5640.000							Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M						

Fre	eq Level		Limit Line		Factor	Remark	Pol/Phase
Mi	Hz dBm/m	dBm	dBm/m	dB	dB/m		
1 PP 3755.00 2 5640.00	00 -48.51 00 -51.38						Vertical Vertical

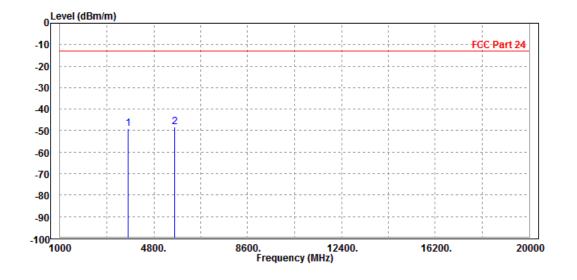




CHANNEL BANDWIDTH: 20MHz / QPSK

MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz			
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter			
TESTED BY	Star Le					
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M						

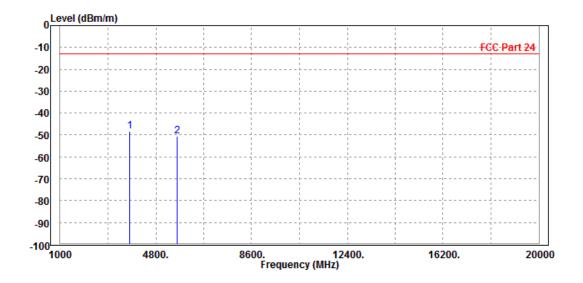
		Freq	Level		Limit Line		Factor	Remark	Pol/Phase
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1		3755.000 5640.000							Horizontal Horizontal





MODE	TX channel 18900	FREQUENCY RANGE	Above 1000MHz				
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V/9V/12V from adapter				
TESTED BY	Star Le	Star Le					
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M							

		Read	Limit	0ver			
Freq	Level	Level	Line	Limit	Factor	Remark	Pol/Phase
MHz	dBm/m	dBm	dBm/m	dB	dB/m		
					,		
1 PP 3755.000	19 16	E2 21	13 00	35 16	2 00	Dook	Vertical
1 FF 3/33.000	-40.40	-32.31	-13.00	-33.40	5.05	reak	vercical
2 5640.000	-50.38	-58.64	-13.00	-37.38	8.26	Peak	Vertical

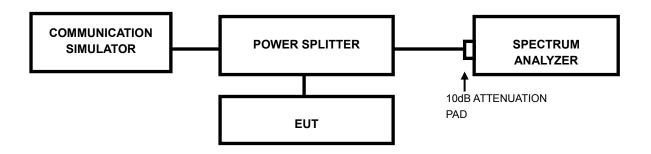


3.7 PEAK TO AVERAGE RATIO

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

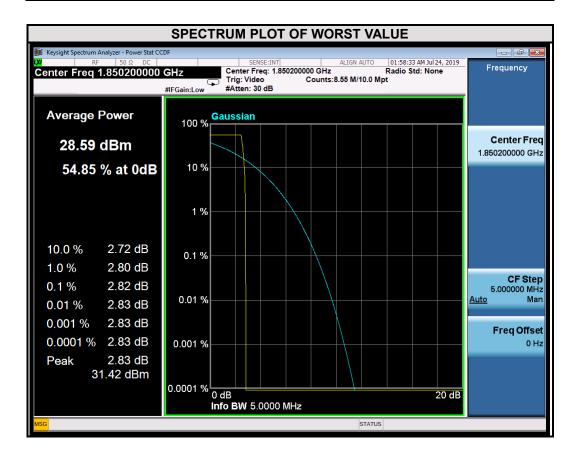
- 1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- 2. Set the number of counts to a value that stabilizes the measured CCDF curve;
- 3. Record the maximum PAPR level associated with a probability of 0.1%.



3.7.4 TEST RESULTS

GSM

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
512	1850.2	2.82	

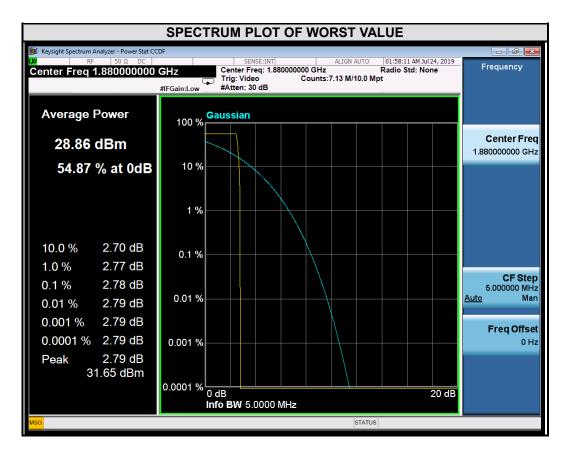


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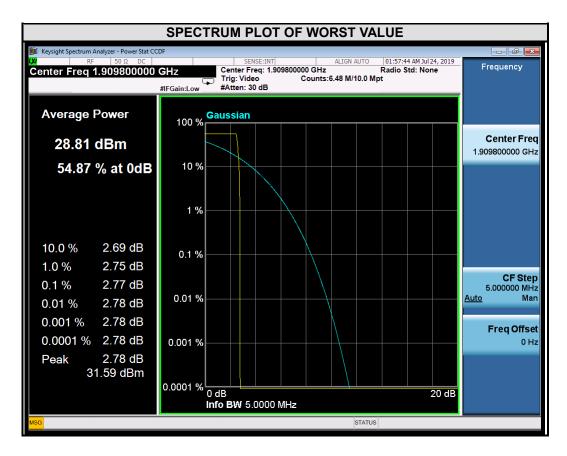


CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
661	1880	2.78	





CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
810	1909.8	2.77	

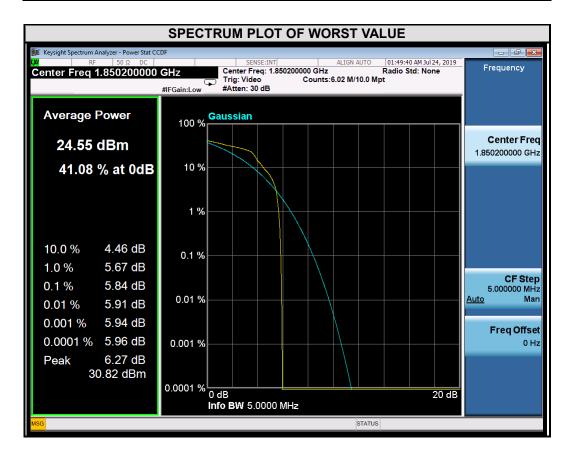


Tel: +86 755 8869 6566



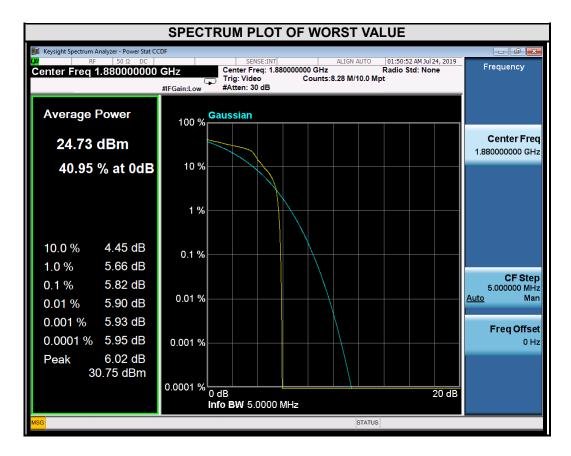
EDGE

CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
512	1850.2	5.84	





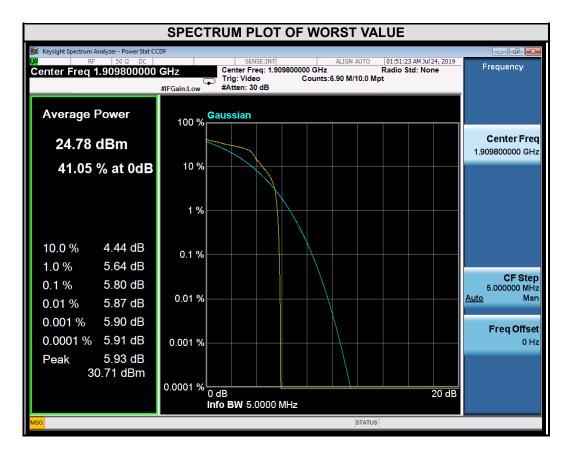
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
661	1880	5.82	



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CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
810	1909.8	5.80	

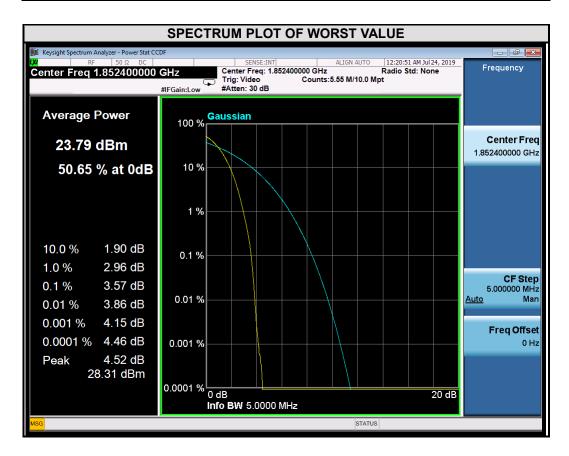


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WCDMA

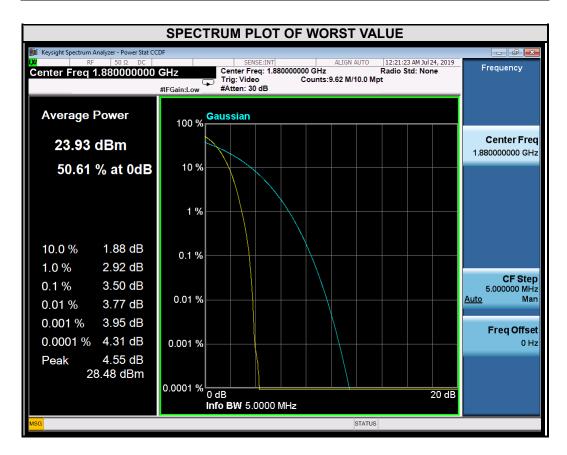
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
9262	1852.4	3.57	



Tel: +86 755 8869 6566



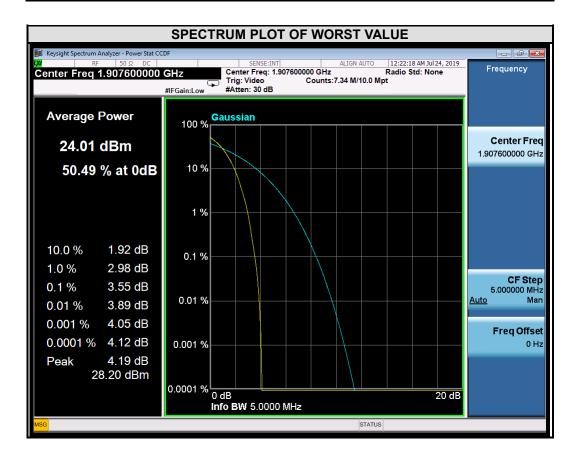
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
9400	1880.0	3.50	



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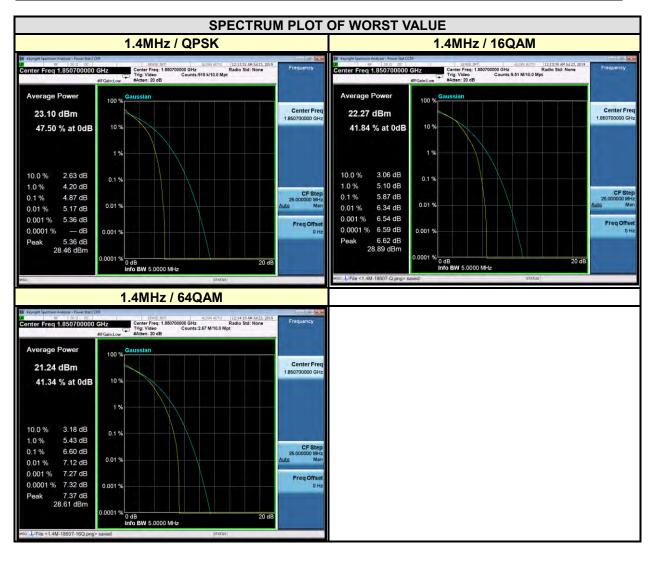
CHANNEL	FREQUENCY (MHz)	PEAK TO AVERAGE RATIO (dB)	
9538	1907.6	3.55	





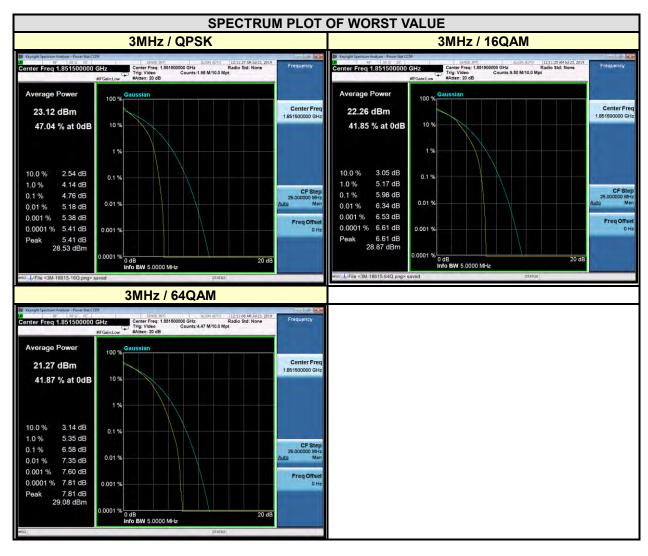
LTE BAND 2

	LIE DAND E						
CHANNEL BANDWIDTH: 1.4MHz							
CHANNEL	Frequency PEAK TO AVERAGE RATIO (dB)						
CHANNEL	(MHz)	QPSK	16QAM	64QAM			
18607	1850.7	4.87	5.87	6.60			
18900	1880	4.74	5.72	6.48			
19193	1909.3	4.60	5.56	6.42			



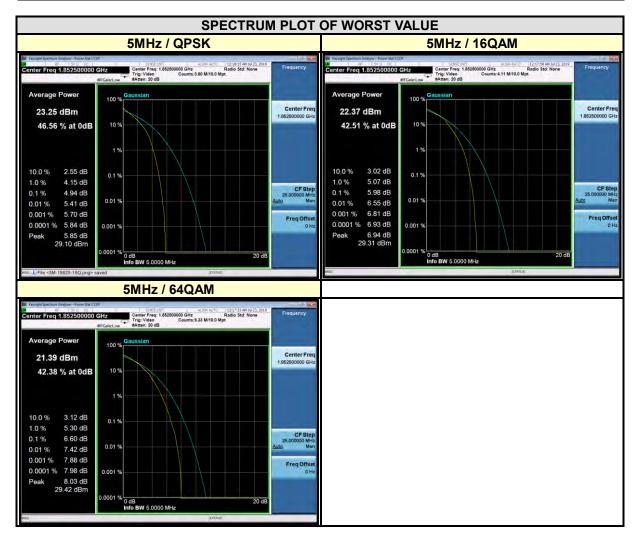


CHANNEL BANDWIDTH: 3MHz					
Frequency PEAK TO AVERAGE RATIO (dB)					
CHANNEL	(MHz)	QPSK	16QAM	64QAM	
18615	1851.5	4.76	5.98	6.58	
18900	1880	4.62	5.84	6.44	
19185	1908.5	4.56	5.69	6.40	



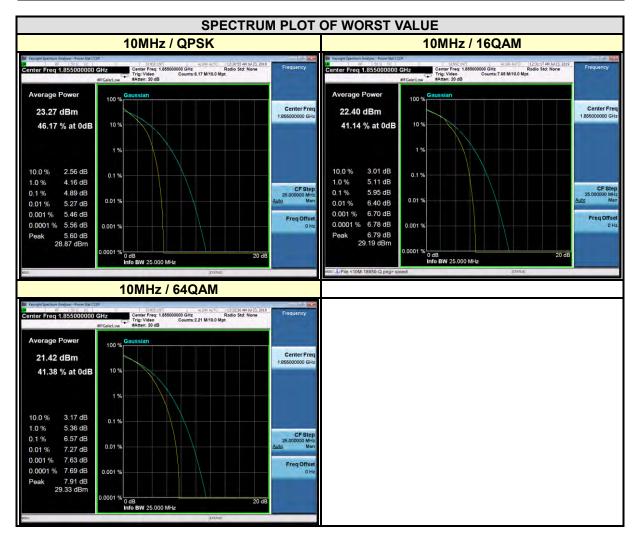


CHANNEL BANDWIDTH: 5MHz					
Frequency PEAK TO AVERAGE RATIO (dB)					
CHANNEL	(MHz)	QPSK	16QAM	64QAM	
18625	1852.5	4.94	5.98	6.60	
18900	1880	4.86	5.88	6.49	
19175	1907.5	4.76	5.77	6.45	



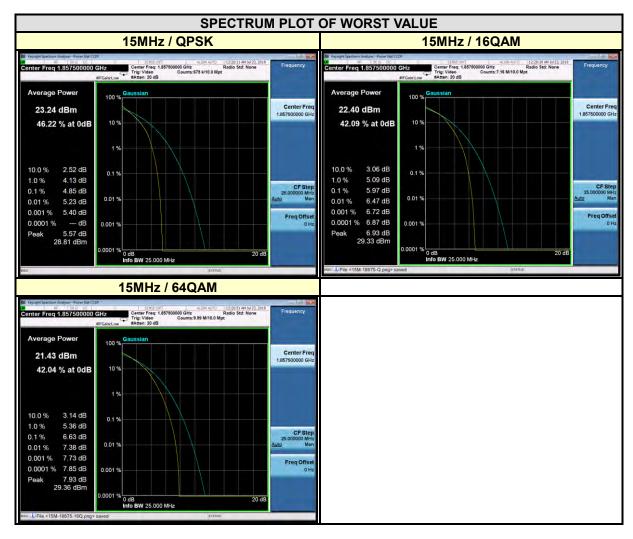


CHANNEL BANDWIDTH: 10MHz							
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)					
		QPSK	16QAM	64QAM			
18650	1855	4.89	5.95	6.57			
18900	1880	4.73	5.76	6.40			
19150	1905	4.54	5.56	6.24			



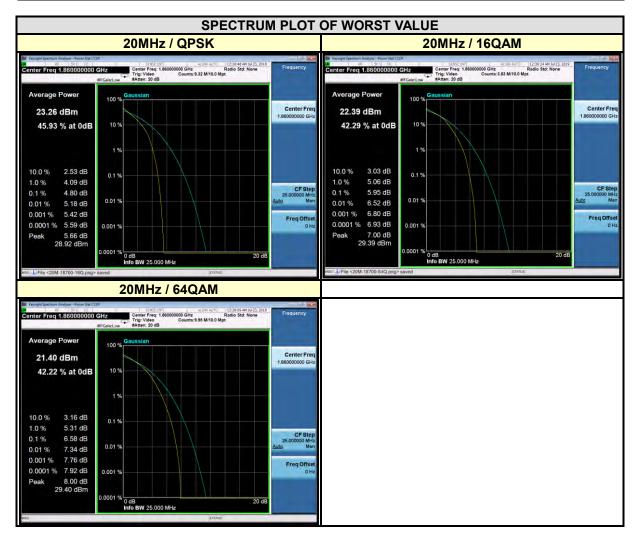


CHANNEL BANDWIDTH: 15MHz							
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)					
		QPSK	16QAM	64QAM			
18675	1857.5	4.85	5.97	6.63			
18900	1880	4.75	5.81	6.48			
19125	1902.5	4.66	5.70	6.41			





CHANNEL BANDWIDTH: 20MHz							
CHANNEL	Frequency (MHz)	PEAK TO AVERAGE RATIO (dB)					
		QPSK	16QAM	64QAM			
18700	1860	4.80	5.95	6.58			
18900	1880	4.75	5.87	6.49			
19100	1900	4.70	5.80	6.46			





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:

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Email: <u>customerservice.dg@cn.bureauveritas.com</u>

Web Site: www.adt.com.tw

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

Page 185 of 186

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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---