Appendix B

RF Test Data for 5.8G (Conducted Measurement)

Product Name: Wireless Video Transmission System
Trade Mark: Hollyland
Test Model: SYSCOM1200

Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Tom Liu

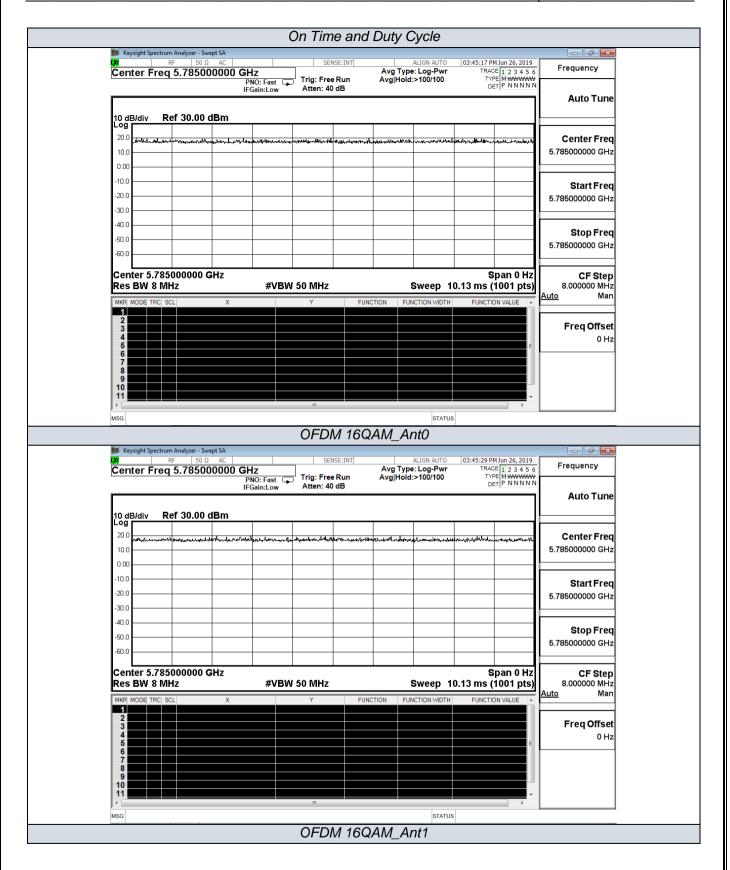
B.1 Duty Cycle

Antenna 0

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW (KHz)
OFDM 16QAM SISO	5785	100	0.00	0.01

Antenna 1

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW (KHz)
OFDM 16QAM SISO	5785	100	0.00	0.01



B.2 Maximum Conduct Output Power

Antenna 0

Ī				AVG	Duty	Report	
	Test Mode	Channel	Frequency	Conducted	Cycle	Conducted	Limit
		Channel	(MHz)	Power	Factor	Power	(dBm)
				(dBm)	(dB)	(dBm)	
		0	5745	11.53	0	11.53	
	OFDM 16QAM	1	5785	15.27	0	15.27	30
		2	5825	12.33	0	12.33	

Antenna 1

Test Mode			AVG	Duty	Report	
	Channel	Frequency	Conducted	Cycle	Conducted	Limit
	Charine	(MHz)	Power	Factor	Power	(dBm)
			(dBm)	(dB)	(dBm)	
	0	5745	11.67	0	11.67	
OFDM 16QAM	1	5785	15.49	0	15.49	30
	2	5825	12.46	0	12.46	

Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor	Report Cor	nducted Pow	, ,	Limit (dBm)
			(dB)	Ant0	Ant1	Sum	(-)
OFDM	0	5745	0	11.53	11.67	14.61	
16QAM	1	5785	0	15.27	15.49	18.39	30
IOQAW	2	5825	0	12.33	12.46	15.41	

B.3 Power Spectral Density

Antenna 0

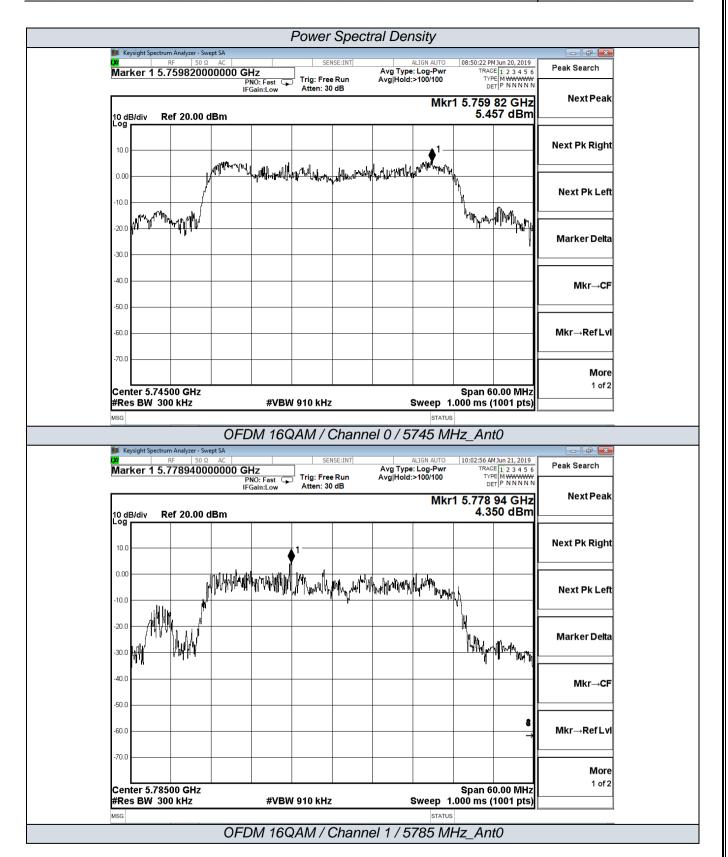
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	Limit (dBm/ 500KHz)
	0	5745	5.457	0	
OFDM 16QAM	1	5785	4.350	0	30.00
	2	5825	6.927	0	

Antenna 1

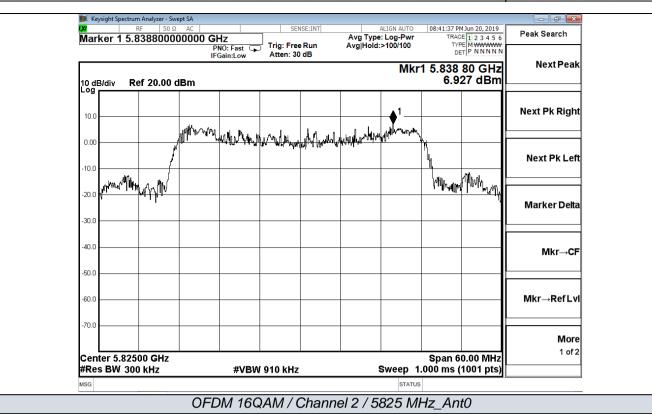
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	Limit (dBm/ 500KHz)
	0	5745	6.327	0	
OFDM 16QAM	1	5785	5.173	0	30.00
	2	5825	5.608	0	

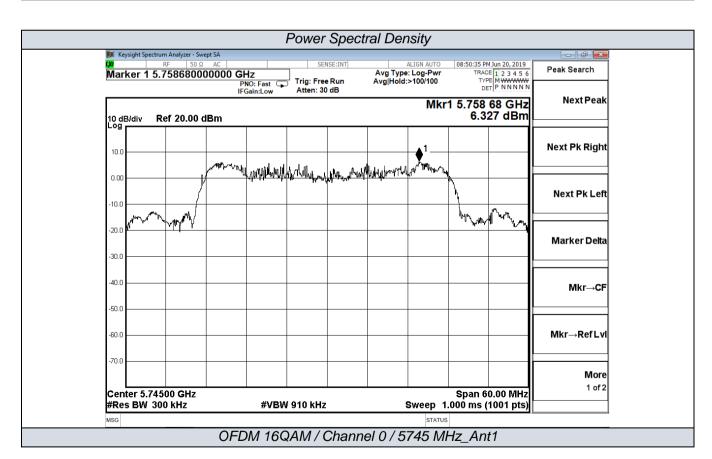
Antenna 0+Antenna 1

Test Mode	Channel	Frequency	Duty Cycle	•	ort Power De dBm/500KHz	•	Limit (dBm/
	Channel	(MHz)	Factor (dB)	Ant0	Ant1	Sum	500KHz)
OFDM	0	5745	0	5.457	6.327	8.92	
16QAM	1	5785	0	4.350	5.173	7.79	30.00
IOQAIVI	2	5825	0	6.927	5.608	9.33	

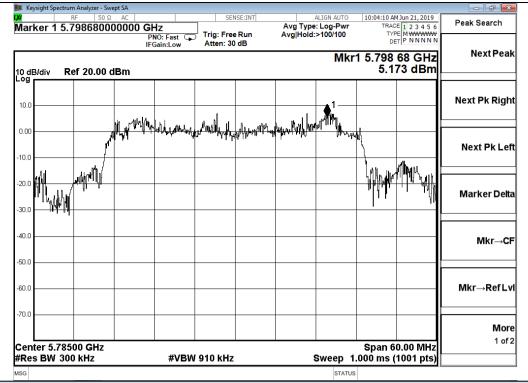


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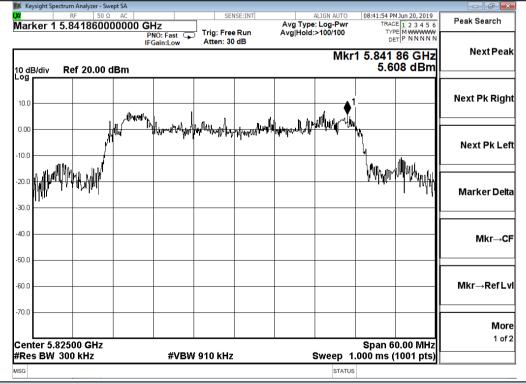




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OFDM 16QAM / Channel 1 / 5785 MHz_Ant1



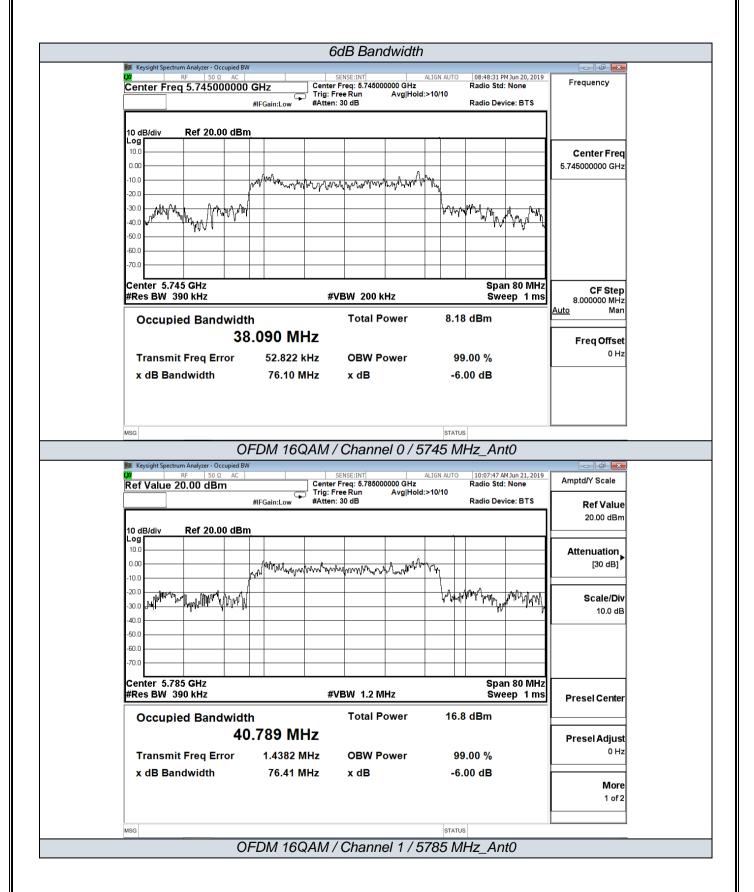
B.4 Emission Bandwidth

Antenna 0

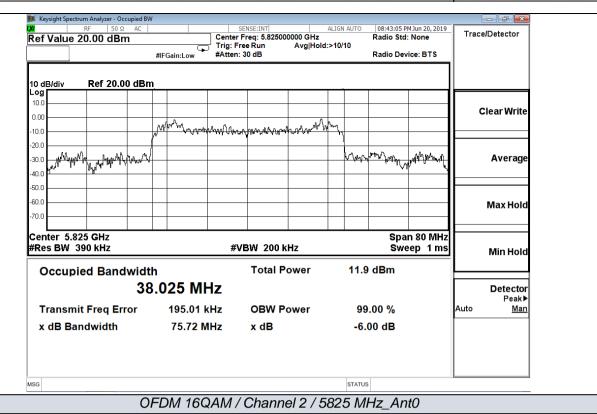
Test Mode	Channel	Frequency	6dB Bandwidth	Limit
rest Mode	Chamilei	(MHz)	(MHz)	(MHz)
	0	5745	76.10	
OFDM 16QAM	1	5785	76.41	>=0.5
	2	5825	75.72	

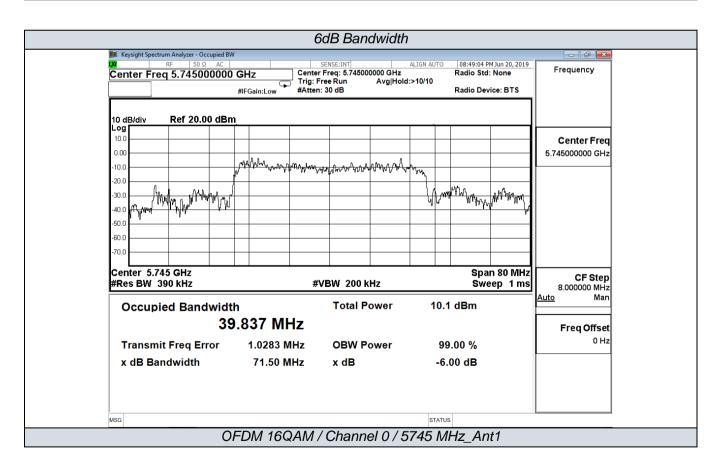
Antenna 1

Toot Modo	Channal	Frequency	6dB Bandwidth	Limit
Test Mode	Channel	(MHz)	(MHz)	(MHz)
	0	5745	71.50	
OFDM 16QAM	1	5785	76.57	>=0.5
	2	5825	75.64	



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SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2ADZC-SYSCOM1200 Report No.: LCS190524086AEB Keysight Spectrum Analyzer - Occupied BW SENSÉ:INT ALIGN AUTO Center Freq: 5.785000000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 30 dB 10:08:32 AM Jun 21, 2019 Radio Std: None Amptd/Y Scale Ref Value 20.00 dBm Radio Device: BTS #IFGain:Low Ref Value 20.00 dBm 10 d<u>B/div</u> Ref 20.00 dBm Attenuation 0.00 [30 dB] -10.0 -20.0 Scale/Div 10.0 dB -40.C -50 O -60.0 -70.0 Center 5.785 GHz #Res BW 390 kHz Span 80 MHz **#VBW 1.2 MHz** Sweep 1 ms **Presel Center Total Power** 20.2 dBm **Occupied Bandwidth** 40.675 MHz Presel Adjust Transmit Freq Error 1.2805 MHz **OBW Power** 99.00 % 76.57 MHz x dB Bandwidth -6.00 dB x dB More 1 of 2 MSG STATUS OFDM 16QAM / Channel 1 / 5785 MHz_Ant1 🚺 Keysight Spectrum Analyzer - Occupied BW SENSE:INT ALIGN AUTO Center Freq: 5.825000000 GHz Trig: Free Run Avg|Hold:>10/10 #Atten: 30 dB 08:43:17 PM Jun 20, 2019 Radio Std: None Trace/Detector Ref Value 20.00 dBm **₽** Radio Device: BTS #IFGain:Low 10 dB/div Ref 20.00 dBm 10.0 Clear Write 0.00 -10.0 -2n n - Mary Mary Average -30.0 -40.C -50.0 -60 C Max Hold -70 C Center 5.825 GHz Span 80 MHz #Res BW 390 kHz **#VBW 200 kHz** Sweep 1 ms Min Hold **Occupied Bandwidth Total Power** 12.7 dBm 37.924 MHz Detector Peak▶ **OBW Power Transmit Freq Error** 179.66 kHz 99.00 % Auto <u>Man</u> x dB Bandwidth 75.64 MHz x dB -6.00 dB MSG STATUS OFDM 16QAM / Channel 2 / 5825 MHz Ant1

B.5 Undesirable Emissions Measurement

Antenna 0

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
		5650.0	-47.939	5.00	-42.939	Peak	-27.0
	0	5700.0	-50.292	5.00	-45.292	Peak	10.0
OFDM		5720.0	-46.310	5.00	-41.310	Peak	15.6
16QAM		5725.0	-44.527	5.00	-39.527	Peak	27.0
SISO		5850.0	-36.675	5.00	-31.675	Peak	27.0
0.00	2	5855.0	-40.366	5.00	-35.366	Peak	15.6
		5875.0	-46.469	5.00	-41.469	Peak	10.0
		5925.0	-47.927	5.00	-42.927	Peak	-27.0

Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
OFDM 16QAM SISO	0	5650.0	-50.878	5.00	-45.878	Peak	-27.0
		5700.0	-49.781	5.00	-44.781	Peak	10.0
		5720.0	-48.238	5.00	-43.238	Peak	15.6
		5725.0	-47.819	5.00	-42.819	Peak	27.0
	2	5850.0	-40.438	5.00	-35.438	Peak	27.0
		5855.0	-42.797	5.00	-37.797	Peak	15.6
		5875.0	-46.838	5.00	-41.838	Peak	10.0
		5925.0	-49.623	5.00	-44.623	Peak	-27.0

Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain	EIRP	Detector	Limit
			Ant0	Ant1	Sum	(dBi)	(dBm/MHz)	Detector	(dBm/MHz)
OFDM 16QA M	0	5650.0	-47.939	-50.878	-46.15	8.01	-38.14	Peak	27.0
		5700.0	-50.292	-49.781	-47.02	8.01	-39.01	Peak	15.6
		5720.0	-46.310	-48.238	-44.16	8.01	-36.15	Peak	10.0
		5725.0	-44.527	-47.819	-42.86	8.01	-34.85	Peak	-27.0
	2	5850.0	-36.675	-40.438	-35.15	8.01	-27.14	Peak	-27.0
		5855.0	-40.366	-42.797	-38.40	8.01	-30.39	Peak	10.0
		5875.0	-46.469	-46.838	-43.64	8.01	-35.63	Peak	15.6
		5925.0	-47.927	-49.623	-45.68	8.01	-37.67	Peak	27.0

