

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

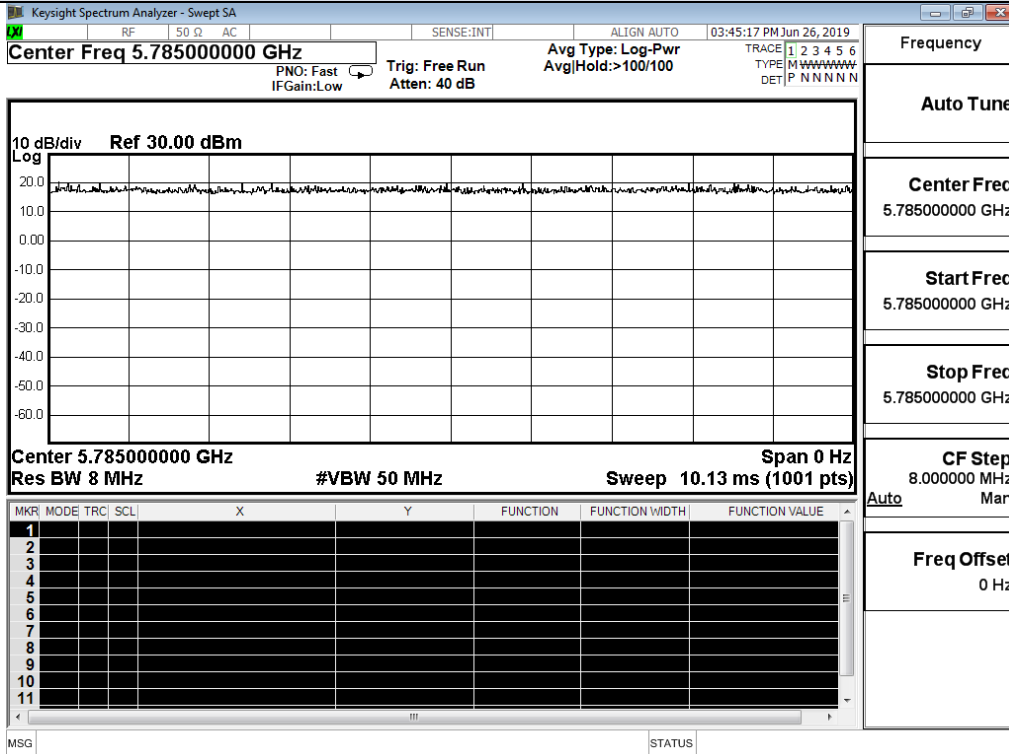
Antenna 0

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

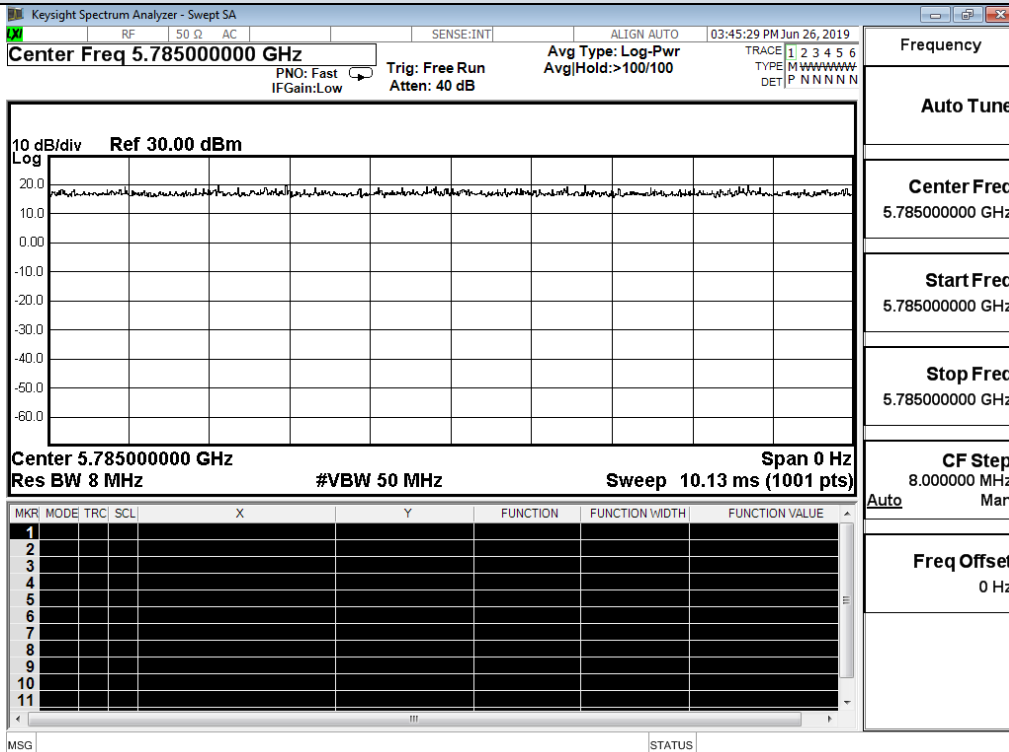
Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW (KHz)
OFDM 16QAM SISO	5785	100	0.00	0.01

On Time and Duty Cycle



Frequency
Auto Tune
Center Freq 5.785000000 GHz
Start Freq 5.785000000 GHz
Stop Freq 5.785000000 GHz
CF Step 8.000000 MHz
Auto Man
Freq Offset 0 Hz

OFDM 16QAM_Ant0



Frequency
Auto Tune
Center Freq 5.785000000 GHz
Start Freq 5.785000000 GHz
Stop Freq 5.785000000 GHz
CF Step 8.000000 MHz
Auto Man
Freq Offset 0 Hz

OFDM 16QAM_Ant1

B.2 Maximum Conduct Output Power

Antenna 0

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

Antenna 1

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

Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)			Limit (dBm)
				Ant0	Ant1	Sum	
OFDM 16QAM	0	5745	0	11.53	11.67	14.61	30
	1	5785	0	15.27	15.49	18.39	
	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)
OFDM 16QAM	0	5745	5.457	0	30.00
	1	5785	4.350	0	
	2	5825	6.927	0	

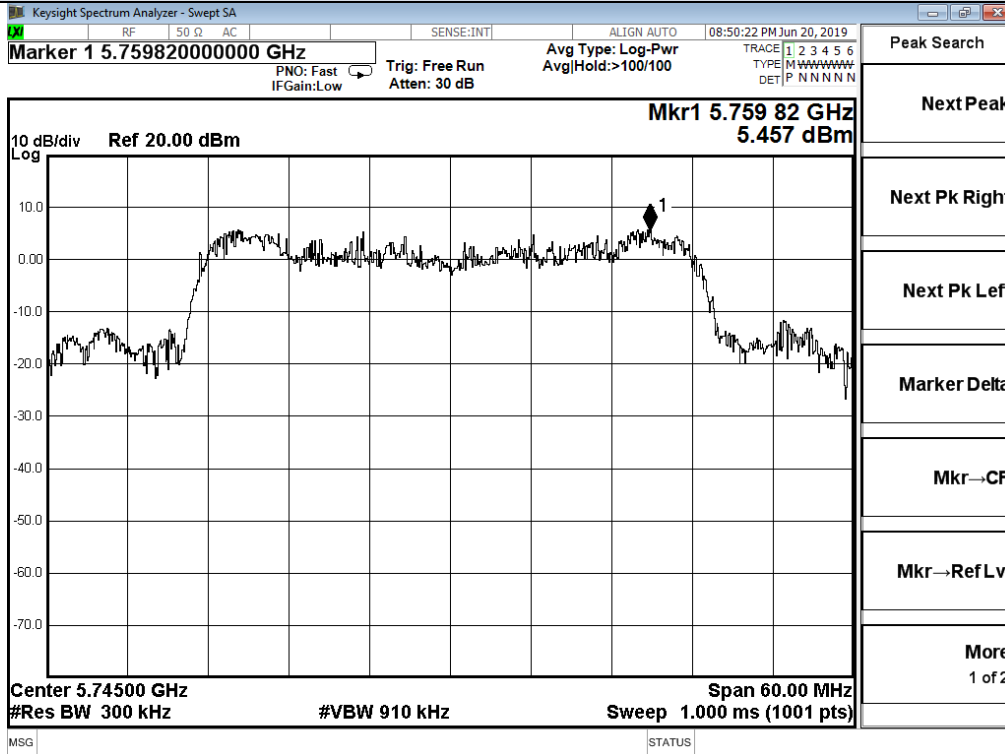
Antenna 1

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

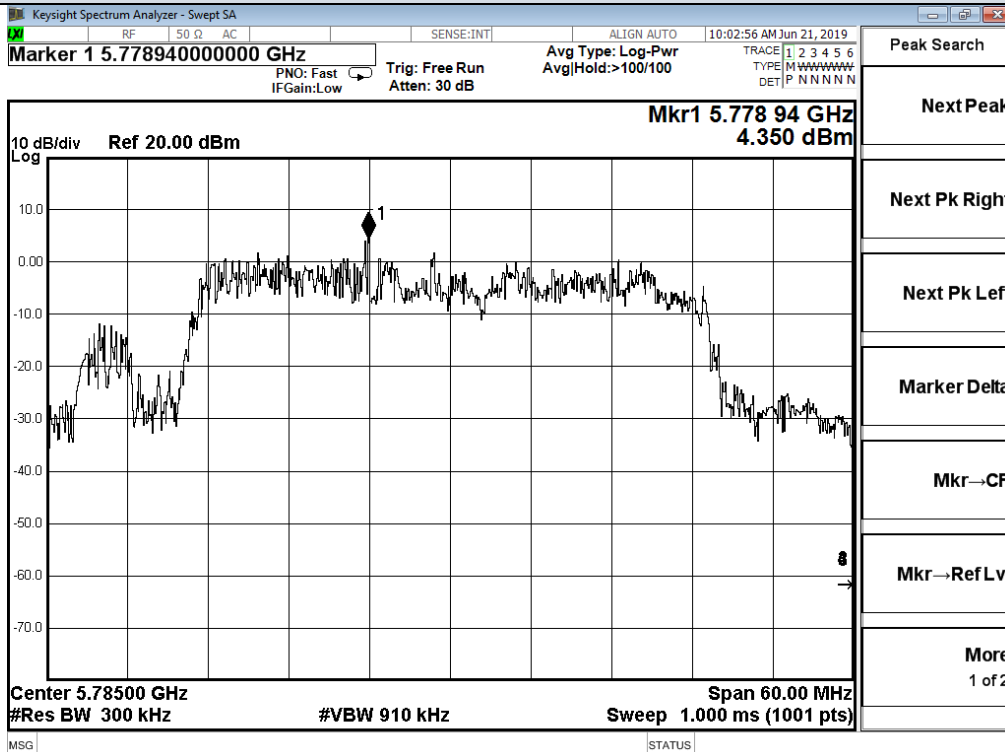
Antenna 0+Antenna 1

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

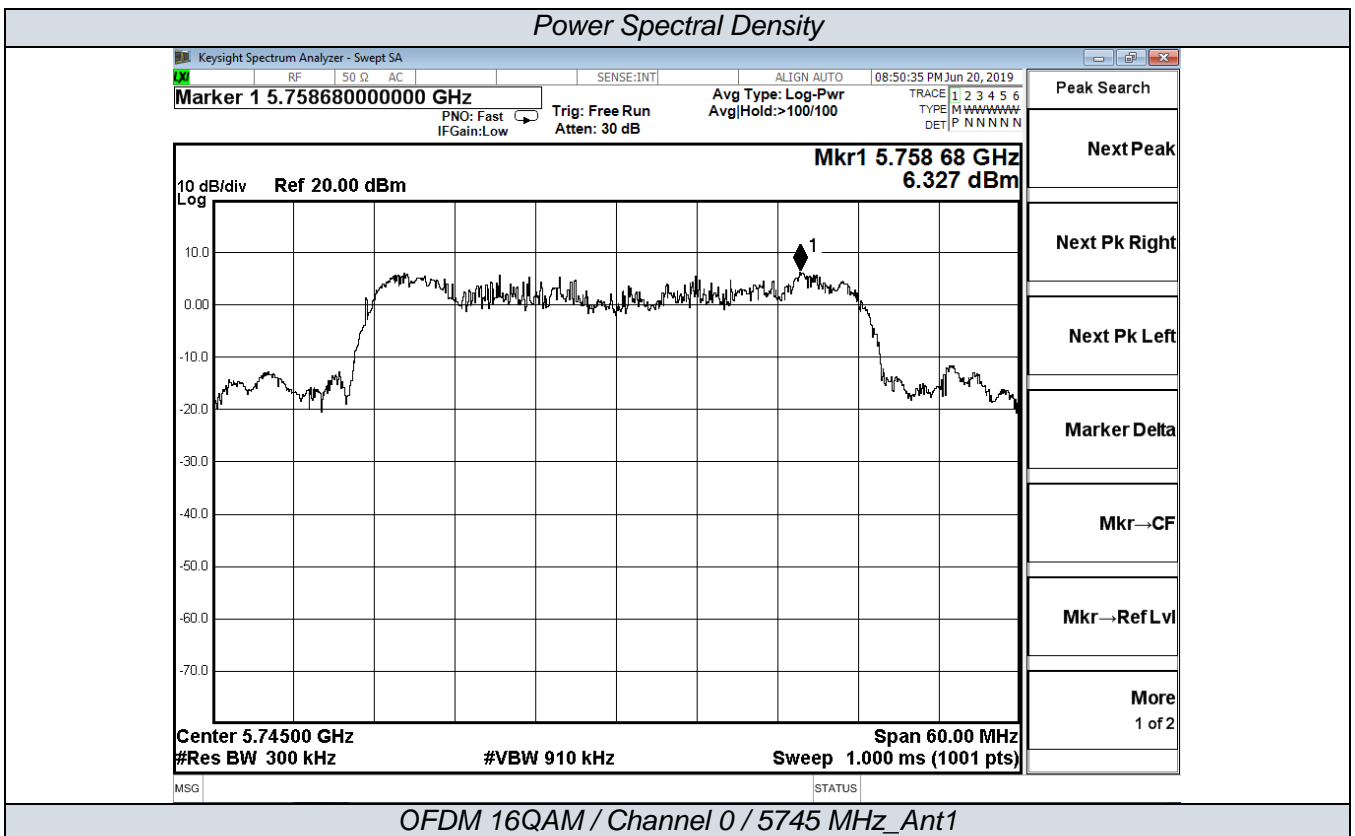
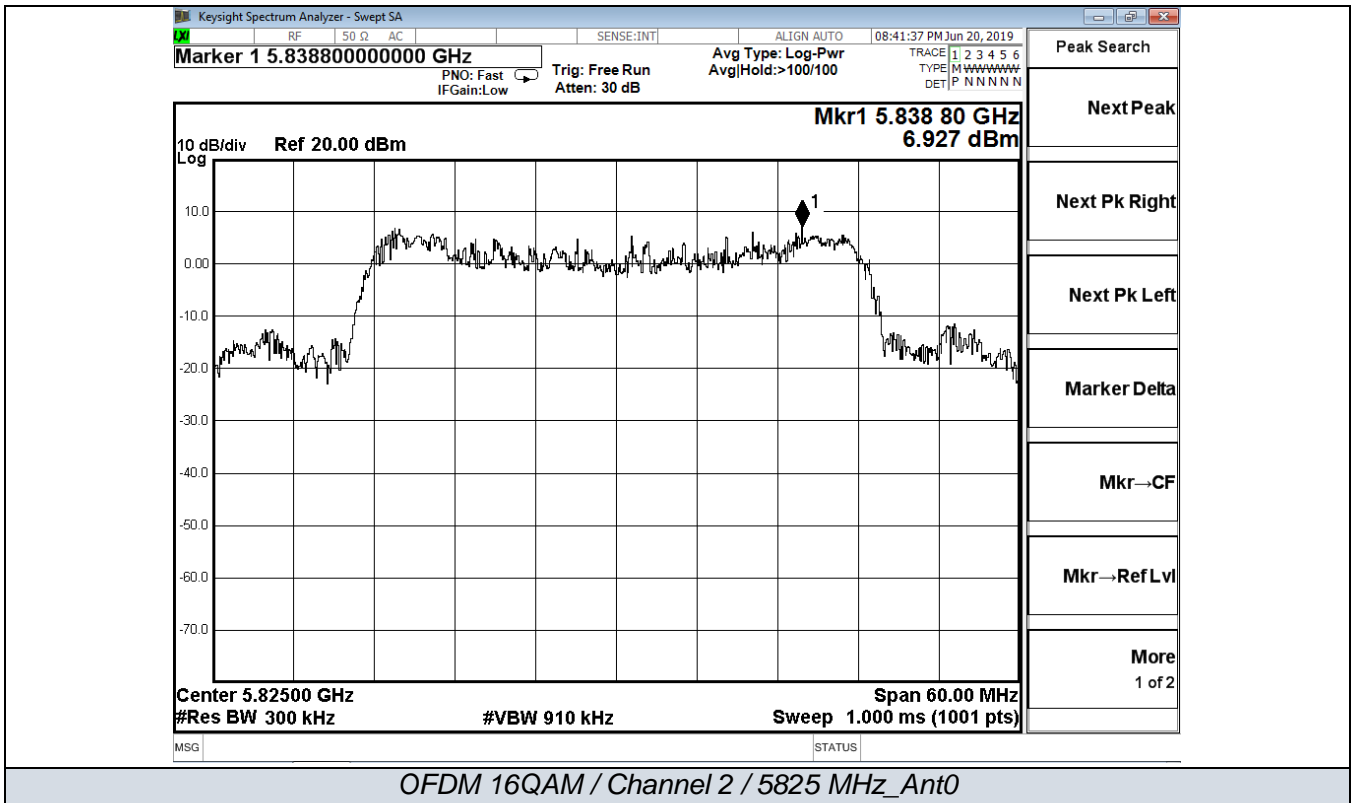
Power Spectral Density

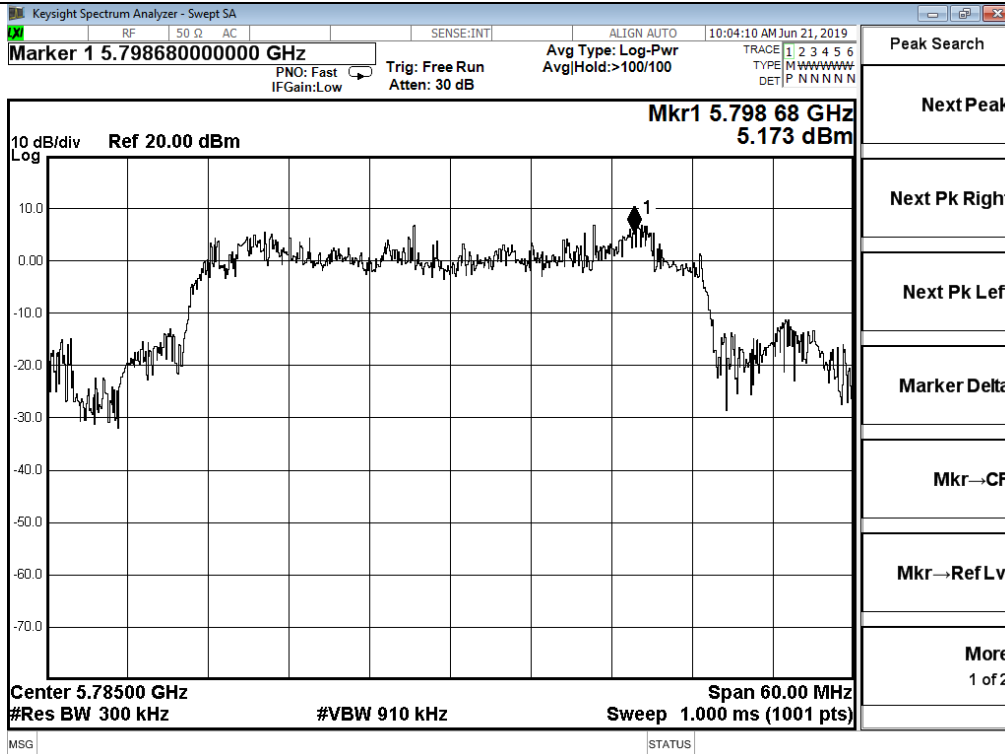


OFDM 16QAM / Channel 0 / 5745 MHz_Ant0

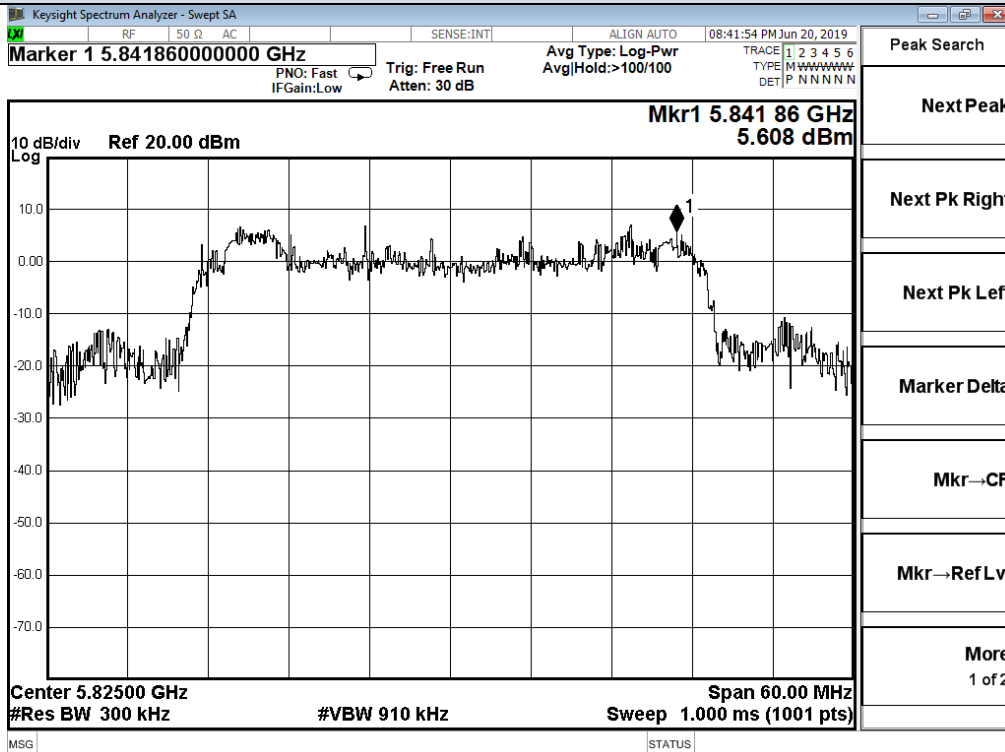


OFDM 16QAM / Channel 1 / 5785 MHz_Ant0





OFDM 16QAM / Channel 1 / 5785 MHz_Ant1



OFDM 16QAM / Channel 2 / 5825 MHz_Ant0

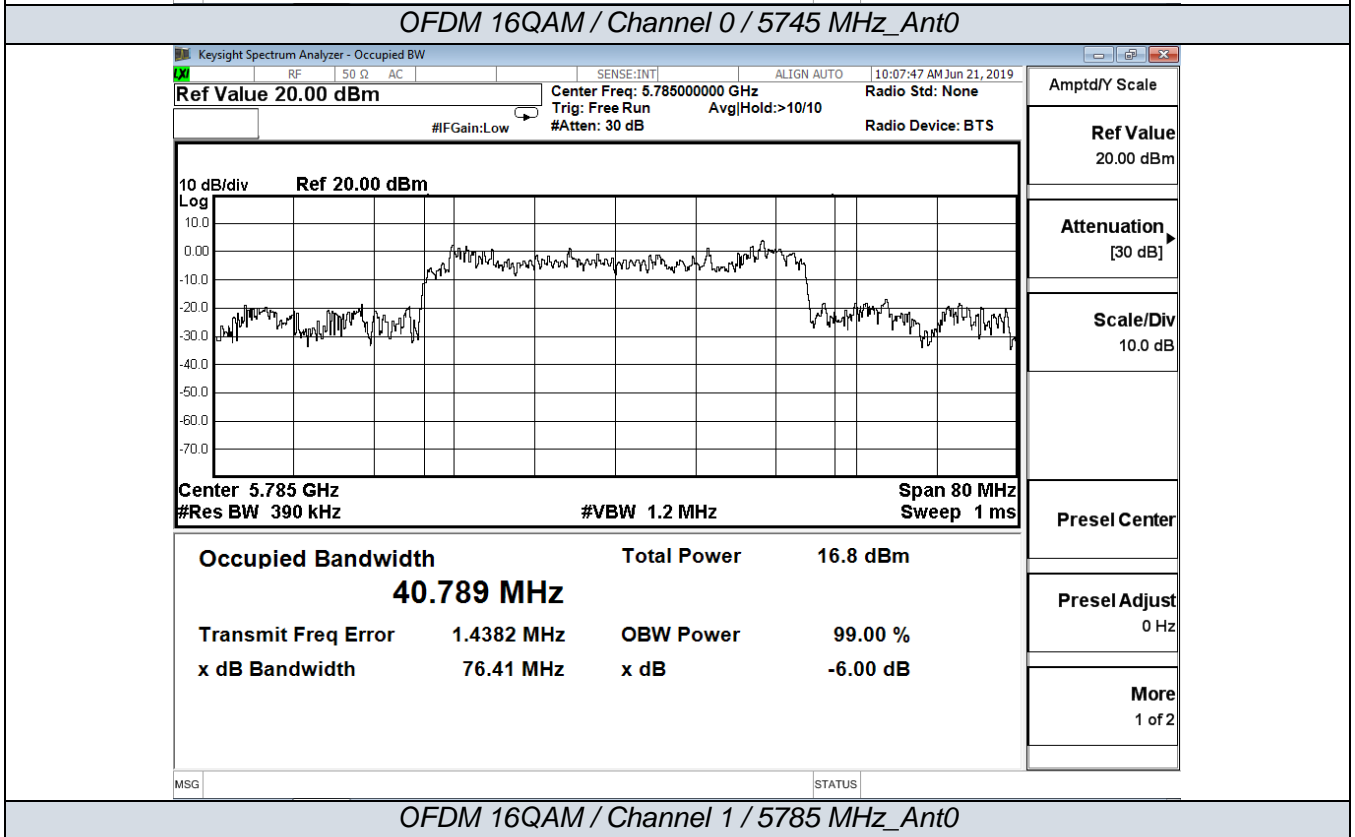
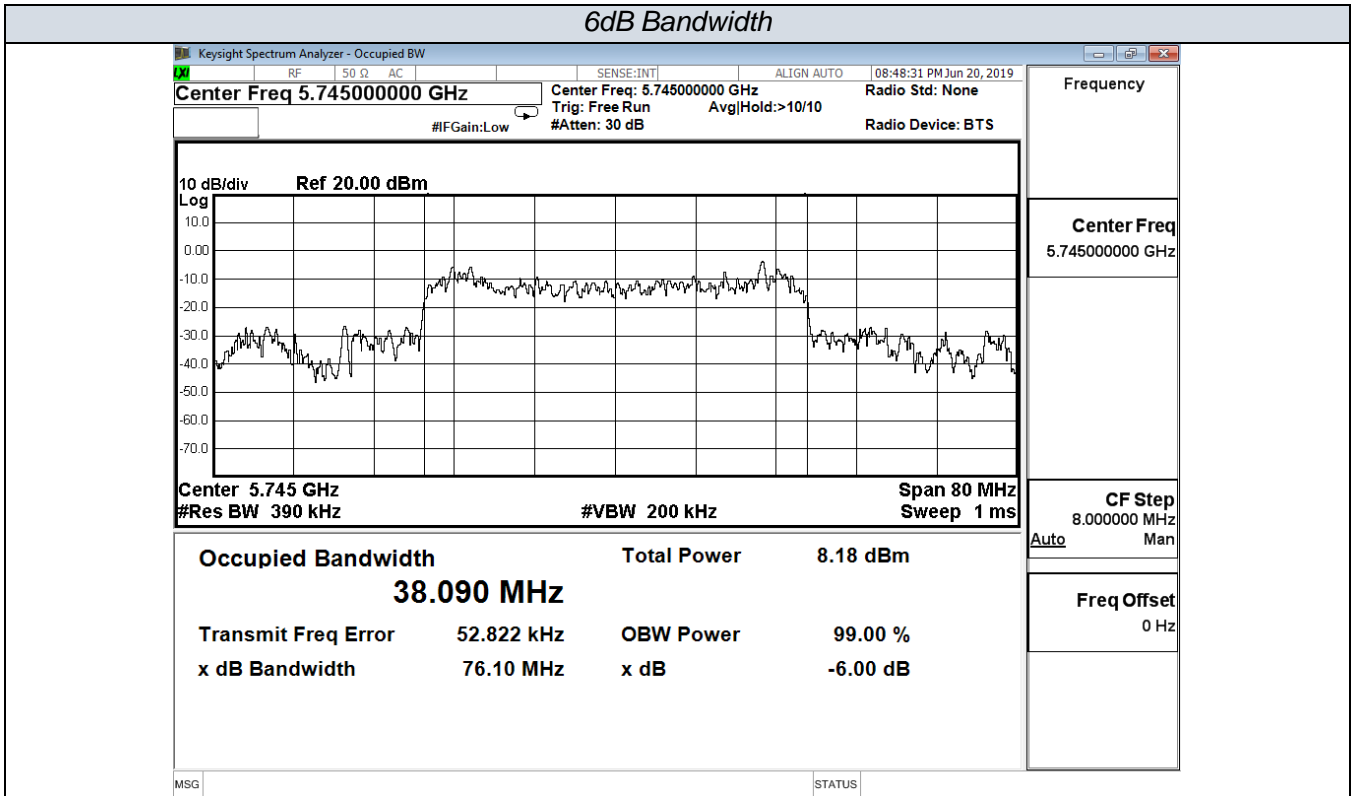
B.4 Emission Bandwidth

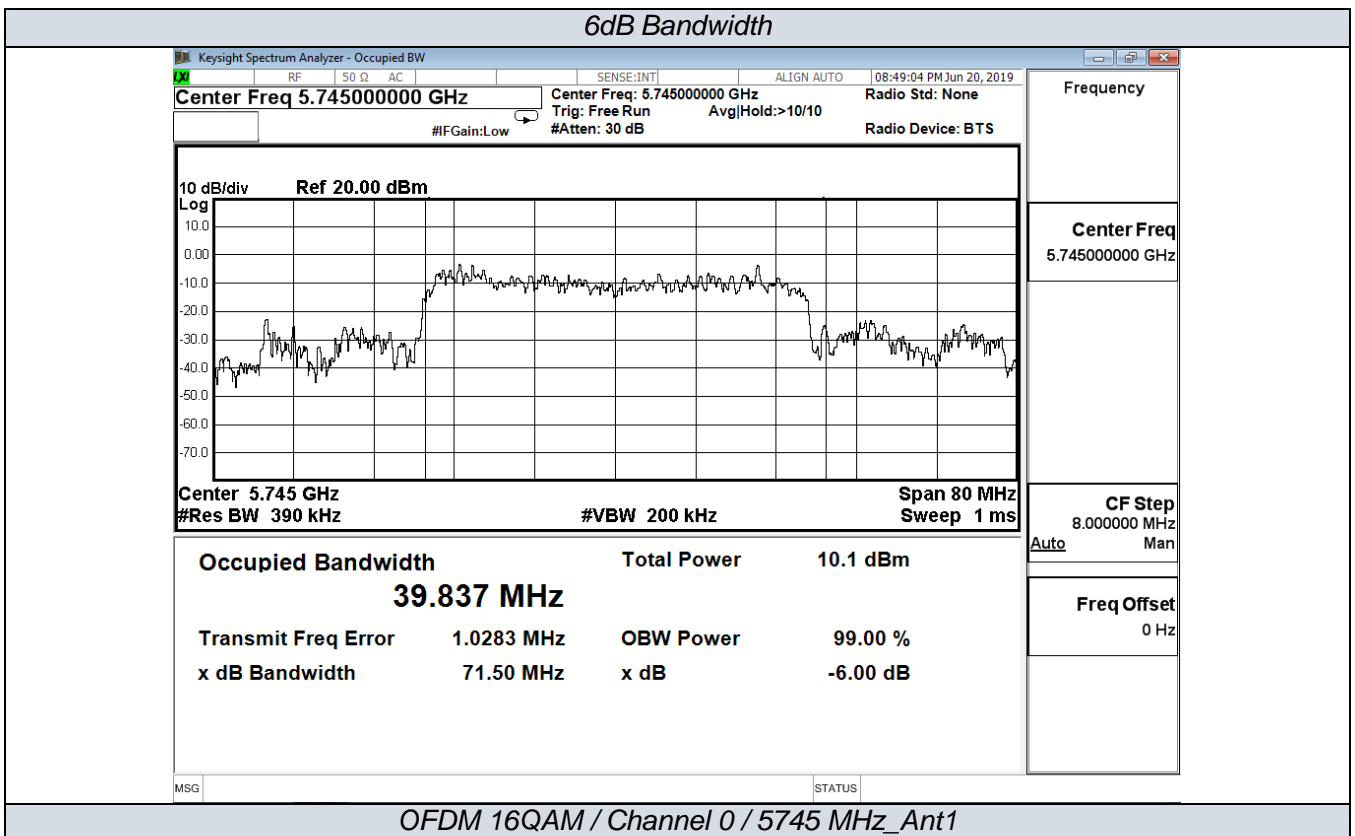
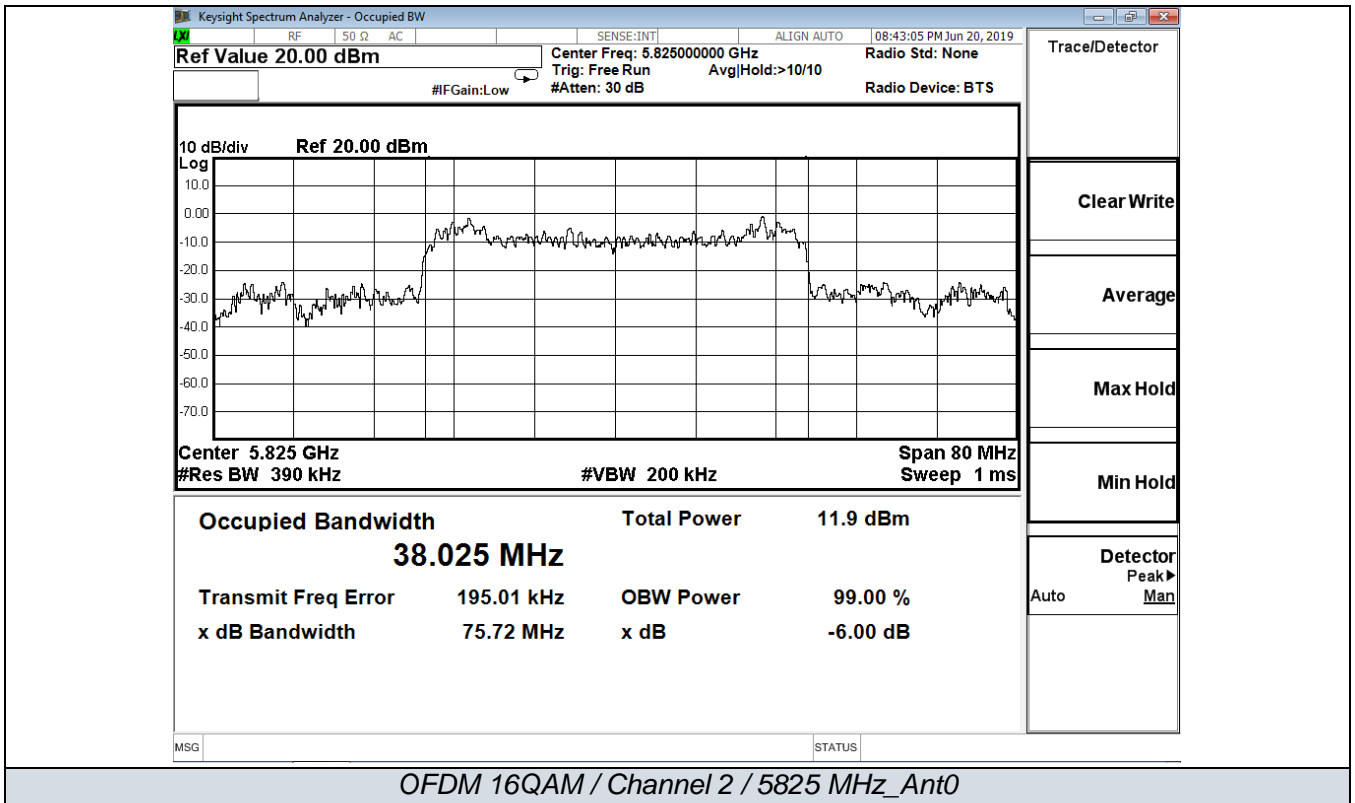
Antenna 0

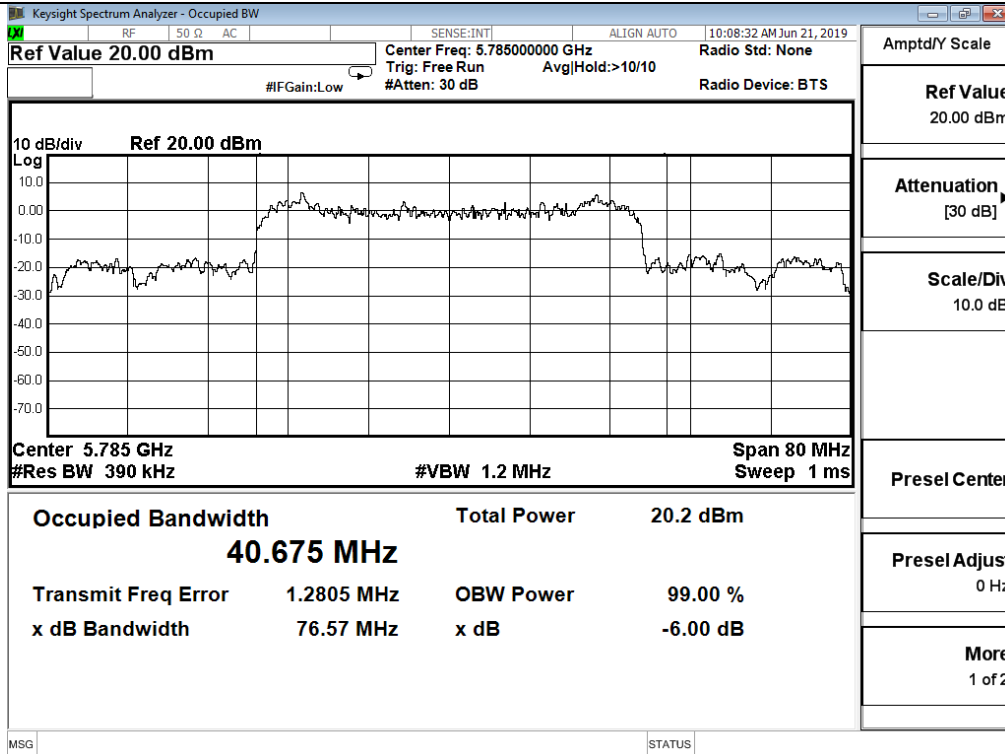
Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
OFDM 16QAM	0	5745	76.10	≥0.5
	1	5785	76.41	
	2	5825	75.72	

Antenna 1

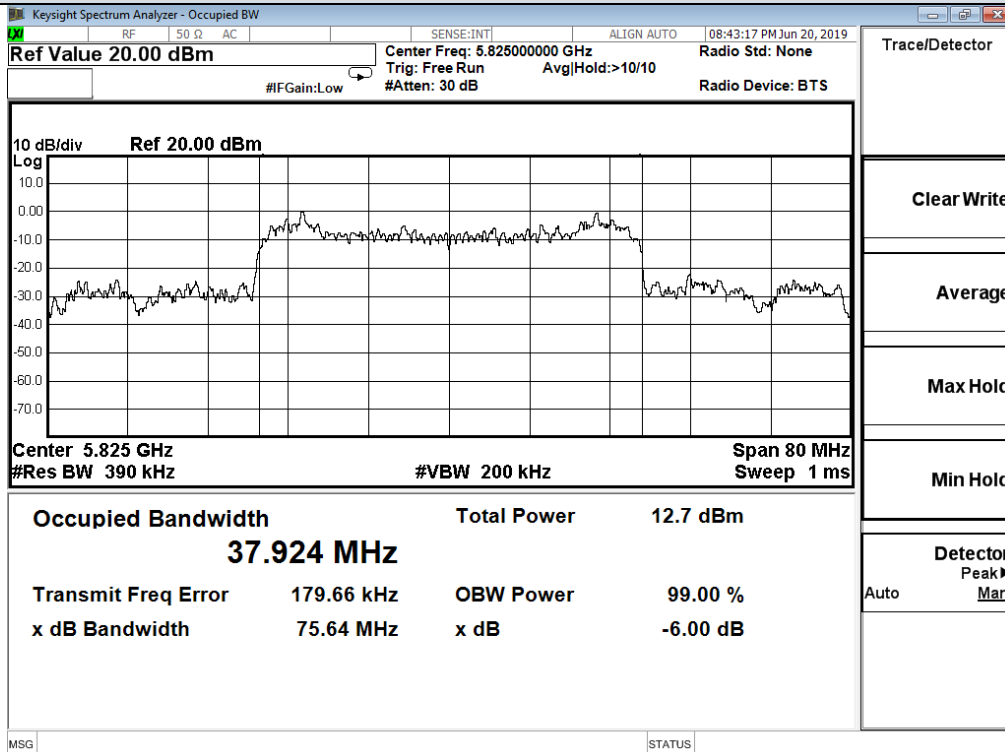
Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
OFDM 16QAM	0	5745	71.50	≥0.5
	1	5785	76.57	
	2	5825	75.64	







OFDM 16QAM / Channel 1 / 5785 MHz_Ant1



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)
OFDM 16QAM SISO	0	5650.0	-47.939	5.00	-42.939	Peak	-27.0
		5700.0	-50.292	5.00	-45.292	Peak	10.0
		5720.0	-46.310	5.00	-41.310	Peak	15.6
		5725.0	-44.527	5.00	-39.527	Peak	27.0
	2	5850.0	-36.675	5.00	-31.675	Peak	27.0
		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

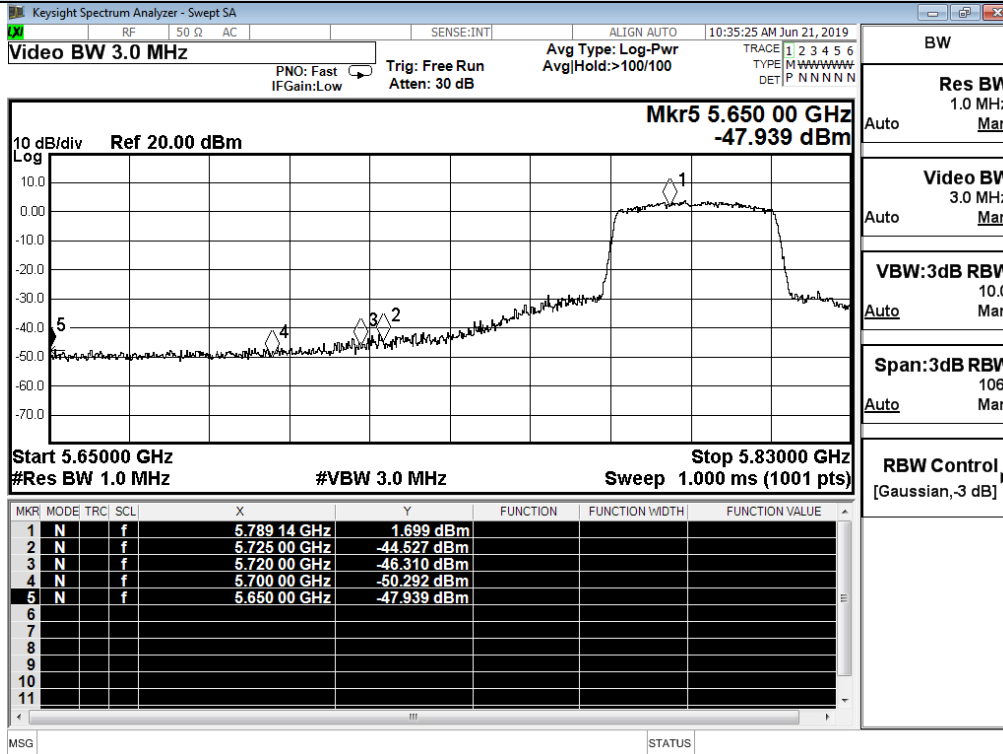
Antenna 1

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

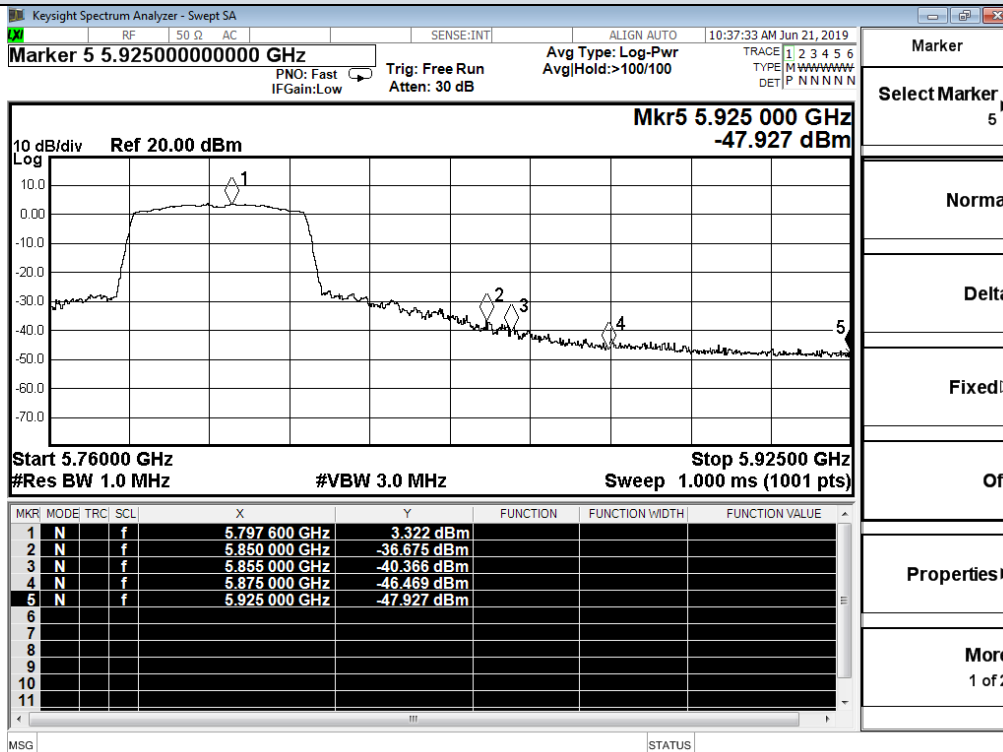
Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
			Ant0	Ant1	Sum				
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

Undesirable Emissions Measurement

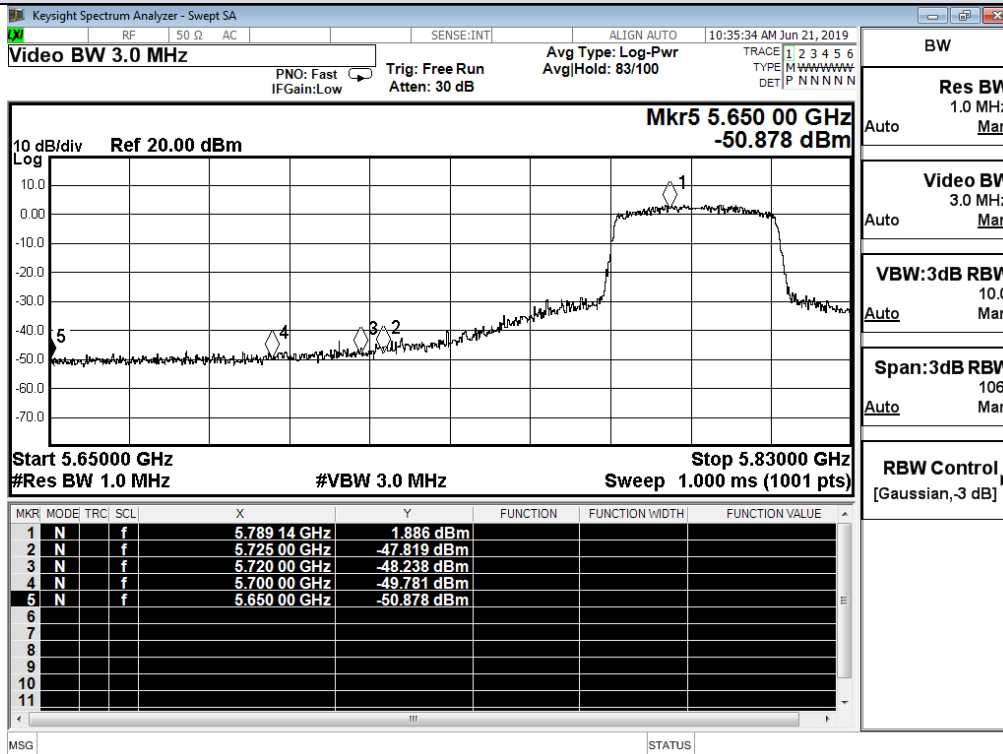


OFDM 16QAM / Channel 0 / 5745 MHz / Peak_Ant0

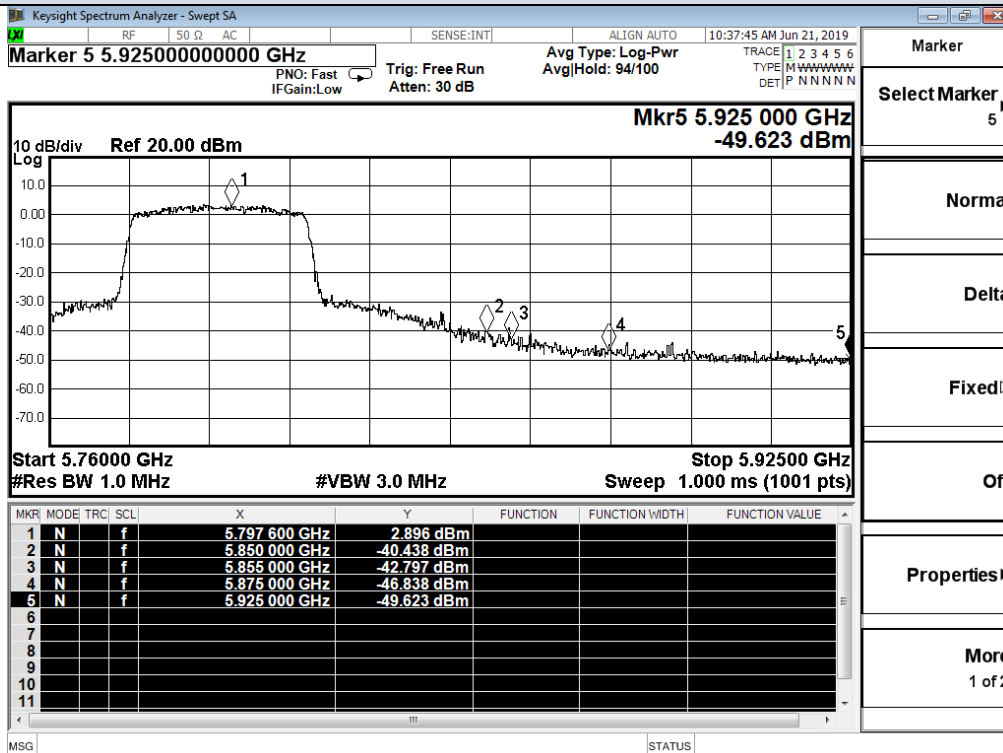


OFDM 16QAM / Channel 2 / 5825 MHz / Peak_Ant0

Undesirable Emissions Measurement



OFDM 16QAM / Channel 0 / 5745 MHz / Peak_Ant1



OFDM 16QAM / Channel 2 / 5825 MHz / Peak_Ant1