　☑ PCC Channel :　　　　41292 (2660.2MHz)

　☑ PCC BW(MHz) :　　　　20

　☑ PCC RB/ RB Offset :　　　1/ 99

　☑ SCC Channel :　　　　41490 (2675.8MHz)

　☑ SCC BW(MHz) :　　　　20

　☑ SCC RB/ RB Offset :　　　1/ 0

　☑ DISTANCE:　　　　1 meters

　☑ LIMIT:　　　　-25.0 dBm

Freq.(MHz)	Measured Level [dBm]	Ant. Gain (dBi)	Substitute Level [dBm]	C.L	Pol.	Result (dBm)
5,320.40	-54.70	13.35	-66.22	3.47	H	-56.34
7,980.60	-56.66	11.10	-57.58	4.43	V	-50.91
10,640.80	-58.19	10.90	-55.28	5.29	H	-49.67

8.7 Occupied Bandwidth

| PCC | | | | | SCC | | | | | Data |
BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	(MHz)
5	40528	2583.8	QPSK	25/ 0	20	40645	2595.5	QPSK	100/ 0	22.852
10	40549	2585.9	QPSK	50/ 0	15	40669	2597.9	QPSK	75/ 0	23.076
10	40526	2583.6	QPSK	50/ 0	20	40670	2598	QPSK	100/ 0	27.738
15	40571	2588.1	QPSK	75/ 0	10	40691	2600.1	QPSK	50/ 0	23.135
15	40545	2585.5	QPSK	75/ 0	15	40695	2600.5	QPSK	75/ 0	28.373
15	40523	2583.3	QPSK	75/ 0	20	40694	2600.4	QPSK	100/ 0	32.627
20	40595	2590.5	QPSK	100/ 0	5	40712	2602.2	QPSK	25/ 0	23.000
20	40571	2588.1	QPSK	100/ 0	10	40715	2602.5	QPSK	50/ 0	27.830
20	40546	2585.6	QPSK	100/ 0	15	40717	2602.7	QPSK	75/ 0	32.623
20	40521	2583.1	QPSK	100/ 0	20	40719	2602.9	QPSK	100/ 0	37.693

| PCC | | | | | SCC | | | | | Data |
BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	(MHz)
5	40528	2583.8	16QAM	25/ 0	20	40645	2595.5	16QAM	100/ 0	22.805
10	40549	2585.9	16QAM	50/ 0	15	40669	2597.9	16QAM	75/ 0	23.116
10	40526	2583.6	16QAM	50/ 0	20	40670	2598	16QAM	100/ 0	27.657
15	40571	2588.1	16QAM	75/ 0	10	40691	2600.1	16QAM	50/ 0	23.159
15	40545	2585.5	16QAM	75/ 0	15	40695	2600.5	16QAM	75/ 0	28.428
15	40523	2583.3	16QAM	75/ 0	20	40694	2600.4	16QAM	100/ 0	32.554
20	40595	2590.5	16QAM	100/ 0	5	40712	2602.2	16QAM	25/ 0	22.895
20	40571	2588.1	16QAM	100/ 0	10	40715	2602.5	16QAM	50/ 0	27.824
20	40546	2585.6	16QAM	100/ 0	15	40717	2602.7	16QAM	75/ 0	32.681
20	40521	2583.1	16QAM	100/ 0	20	40719	2602.9	16QAM	100/ 0	37.452

| PCC					SCC					Data
BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	(MHz)
5	40528	2583.8	64QAM	25/ 0	20	40645	2595.5	64QAM	100/ 0	22.785
10	40549	2585.9	64QAM	50/ 0	15	40669	2597.9	64QAM	75/ 0	23.089
10	40526	2583.6	64QAM	50/ 0	20	40670	2598	64QAM	100/ 0	27.752
15	40571	2588.1	64QAM	75/ 0	10	40691	2600.1	64QAM	50/ 0	23.051
15	40545	2585.5	64QAM	75/ 0	15	40695	2600.5	64QAM	75/ 0	28.331
15	40523	2583.3	64QAM	75/ 0	20	40694	2600.4	64QAM	100/ 0	32.608
20	40595	2590.5	64QAM	100/ 0	5	40712	2602.2	64QAM	25/ 0	22.811
20	40571	2588.1	64QAM	100/ 0	10	40715	2602.5	64QAM	50/ 0	27.802
20	40546	2585.6	64QAM	100/ 0	15	40717	2602.7	64QAM	75/ 0	32.721
20	40521	2583.1	64QAM	100/ 0	20	40719	2602.9	64QAM	100/ 0	37.542

Note:

1. In order to simplify the report, attached plots were only QPSK modulation.
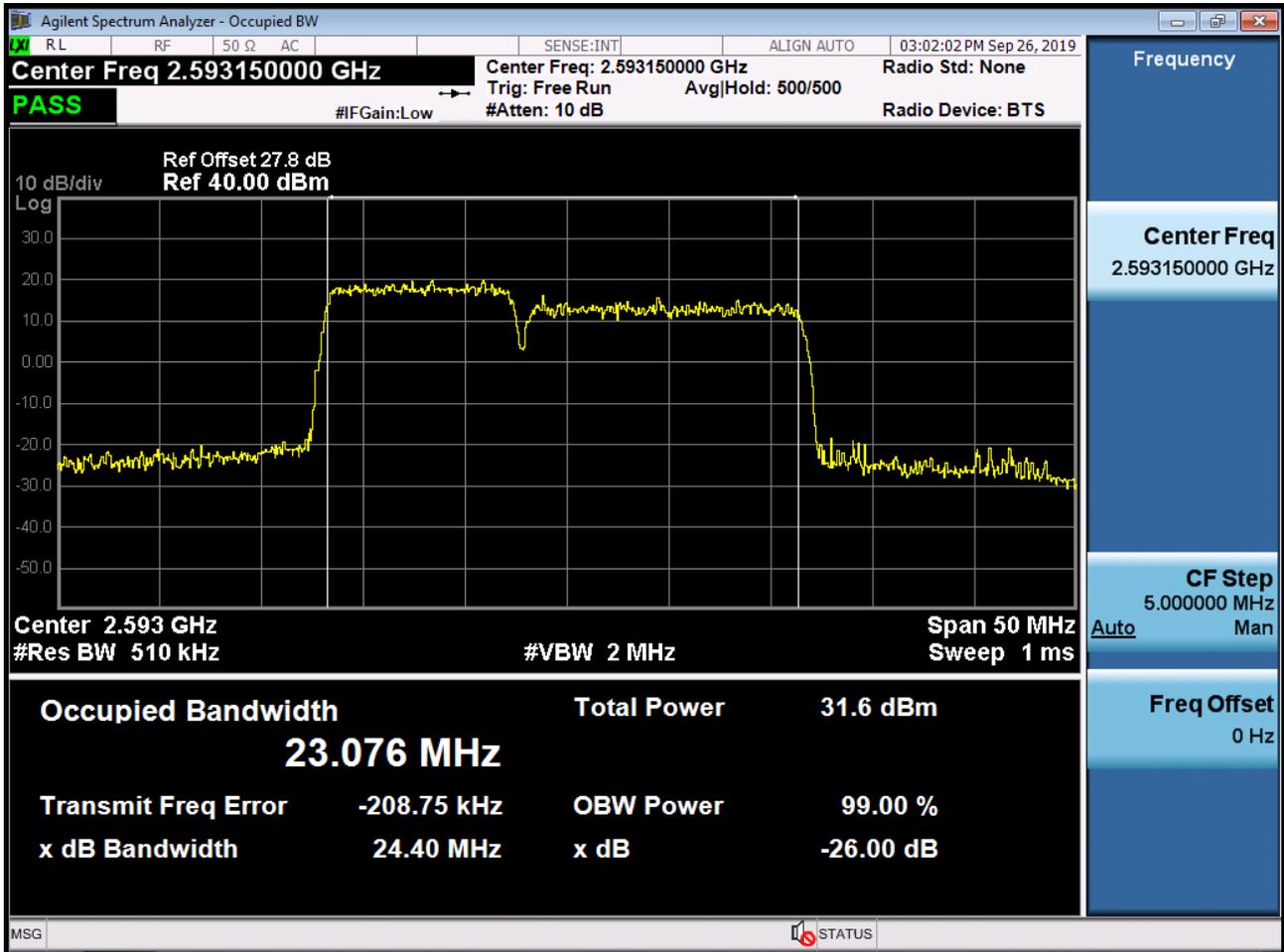
2. Operating frequency : Mid

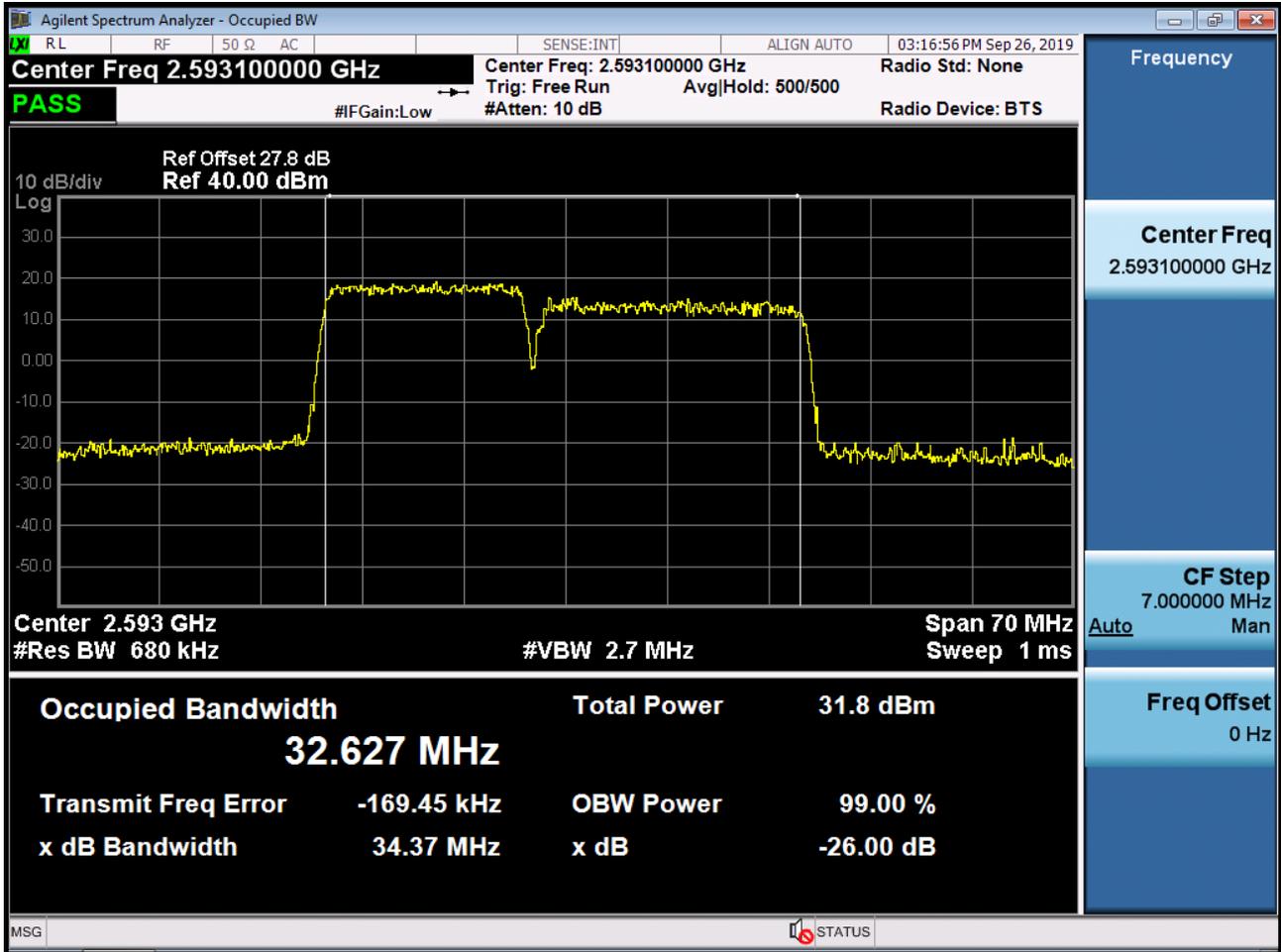PCC 5MHz Ch40528 RB25 Offset0, SCC 20MHz Ch40645 RB100 Offset0_(QPSK)
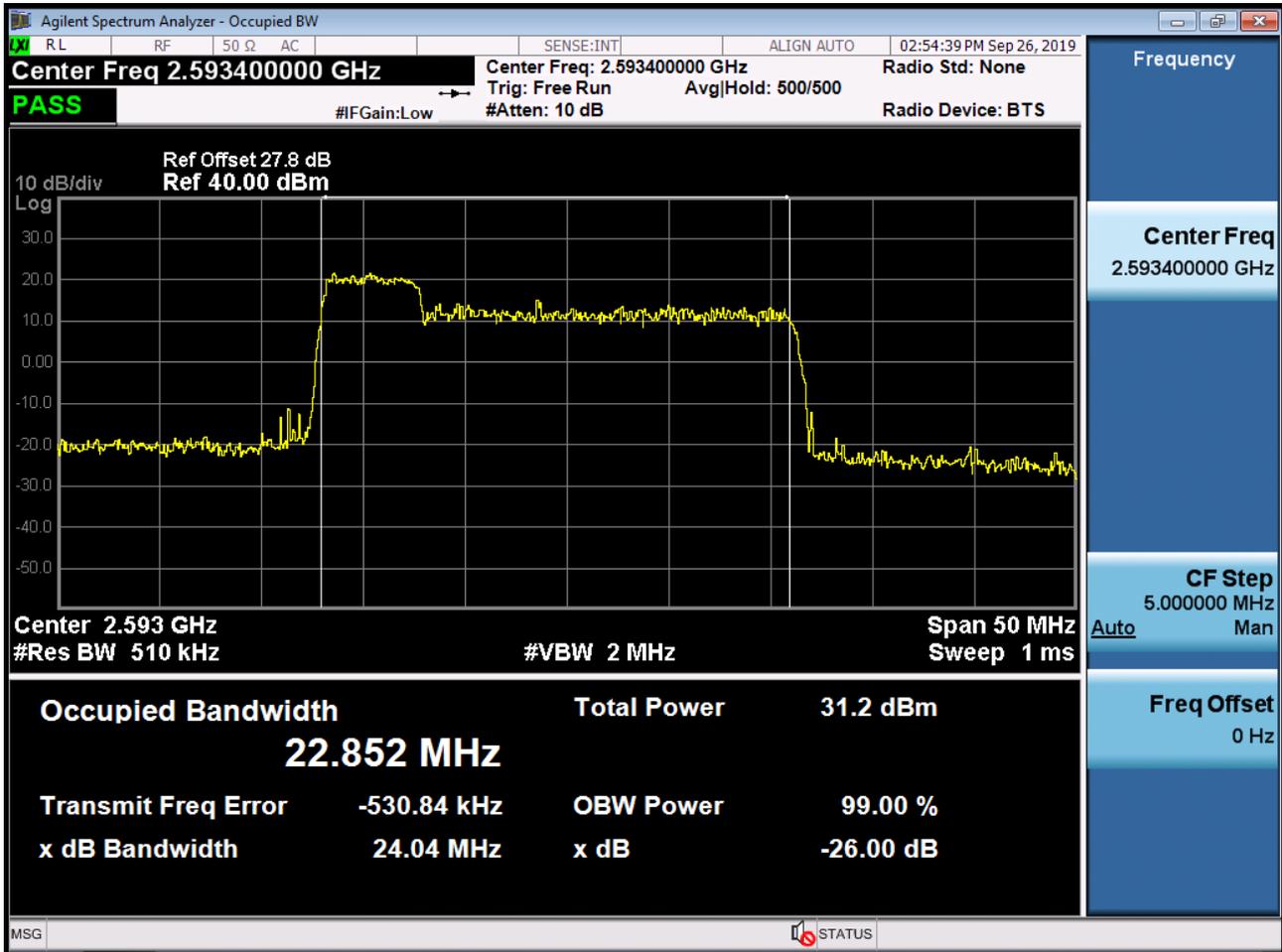
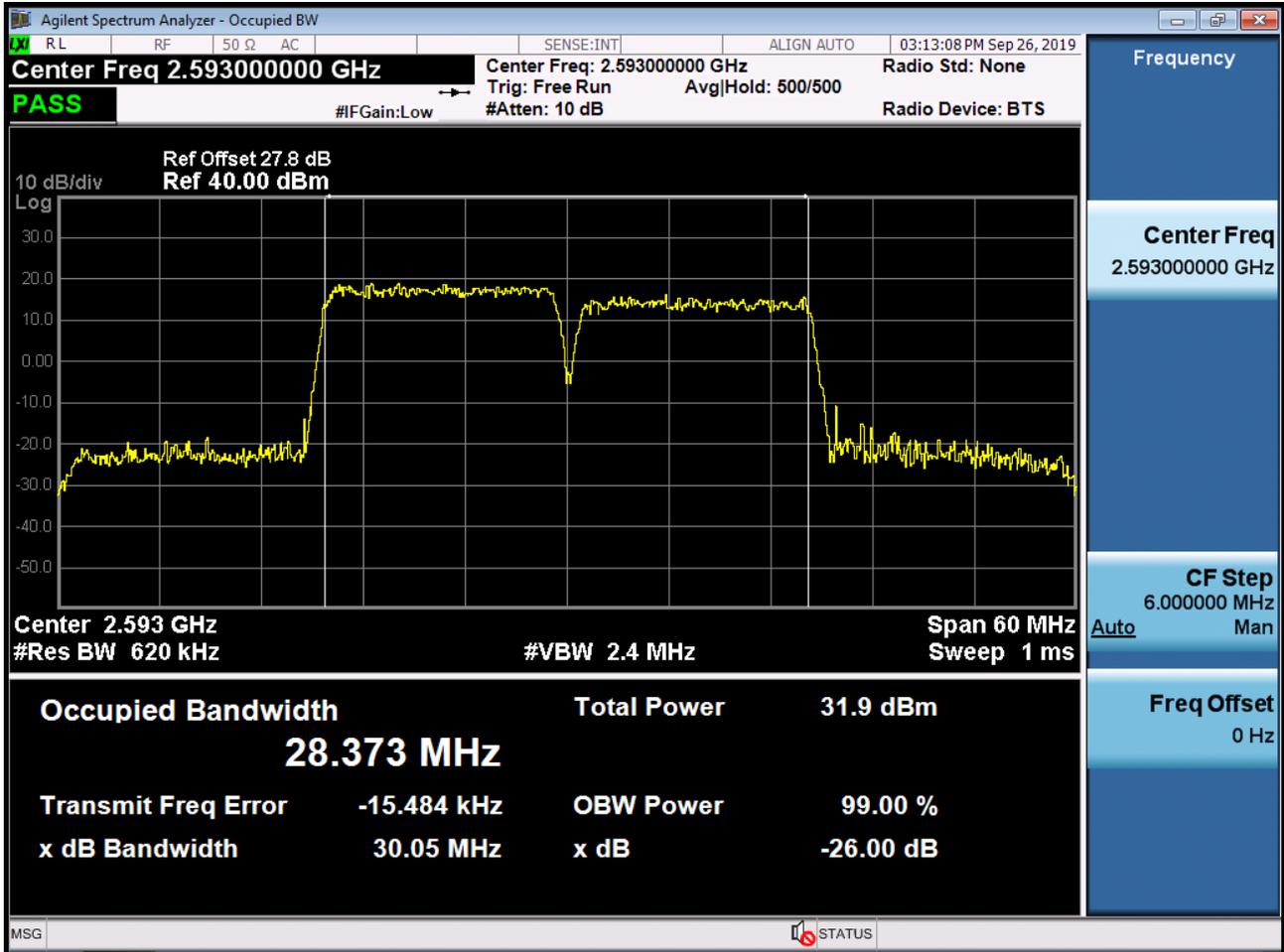PCC 10MHz Ch40526 RB50 Offset0, SCC 20MHz Ch40670 RB100 Offset0_(QPSK)
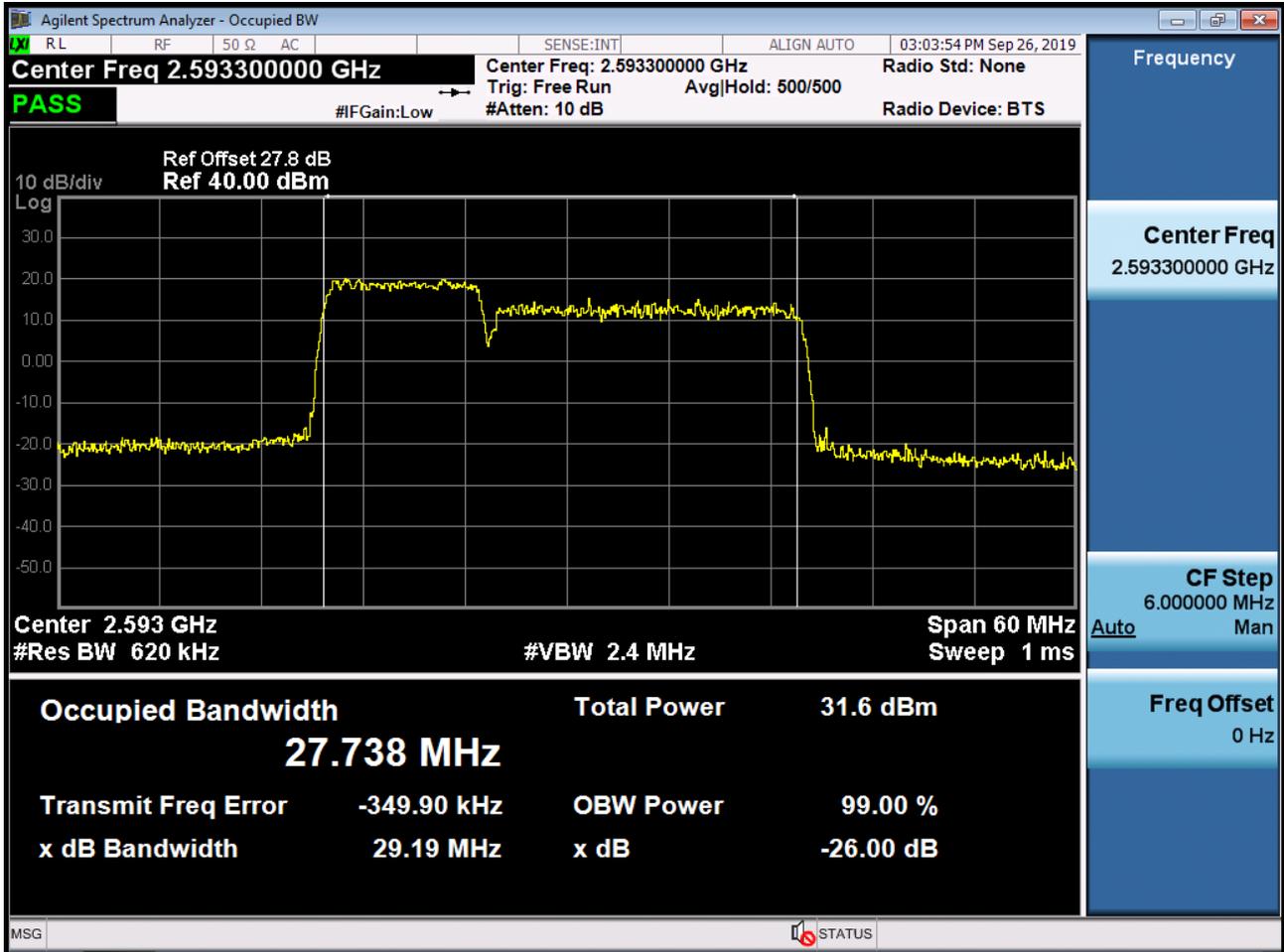
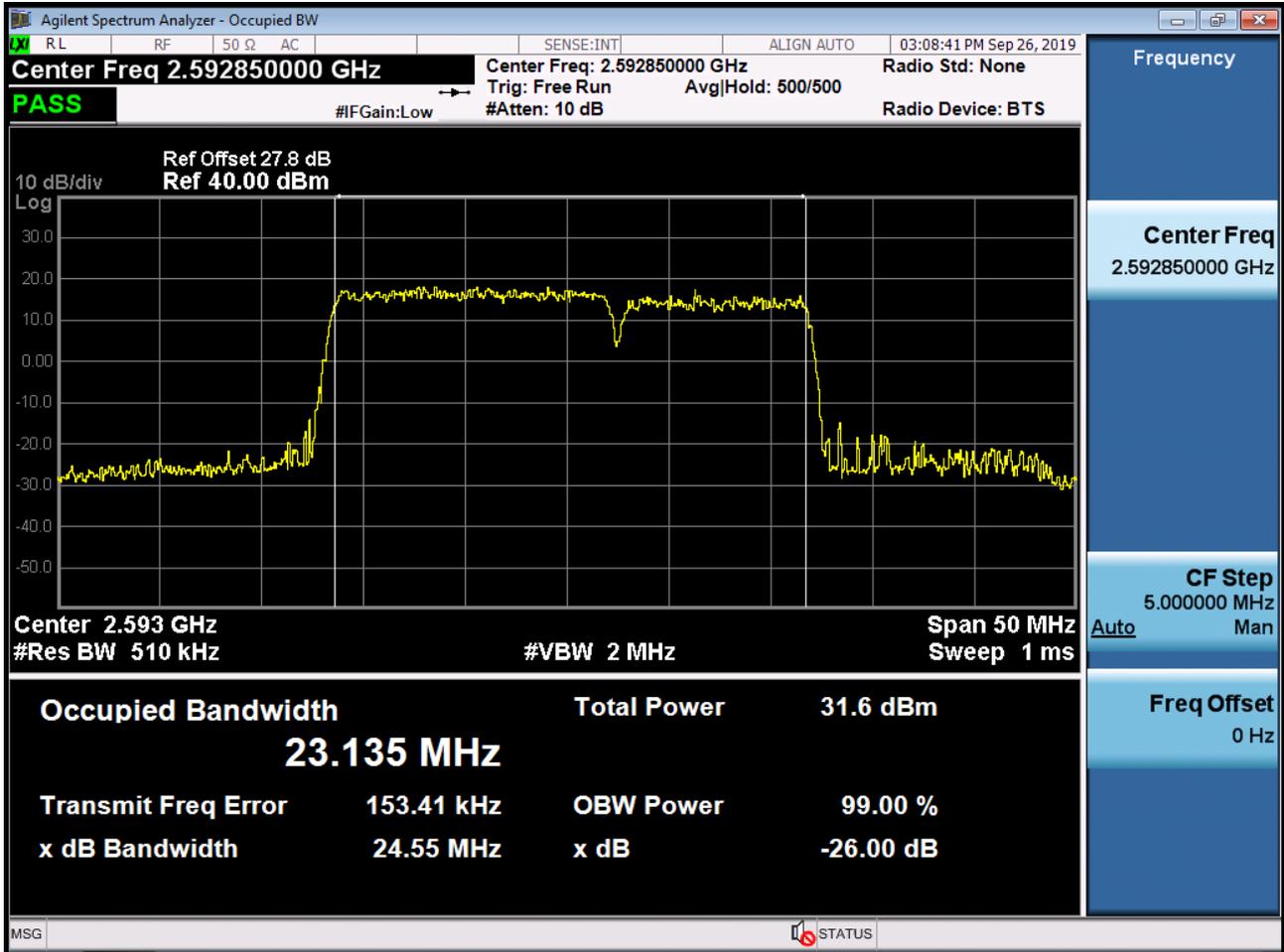PCC 10MHz Ch40549 RB50 Offset0, SCC 15MHz Ch40669 RB75 Offset0_(QPSK)

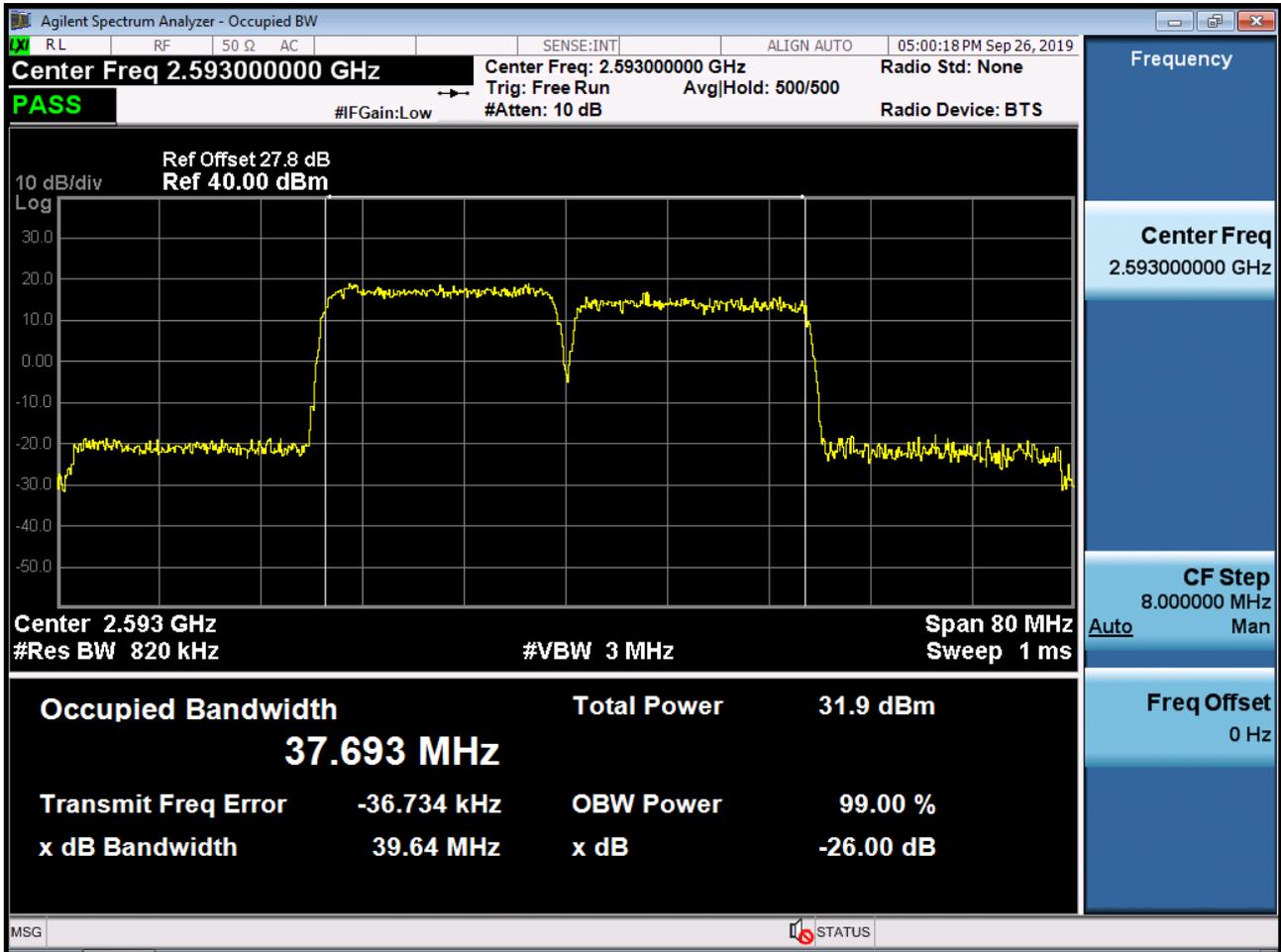PCC 15MHz Ch40523 RB75 Offset0, SCC 20MHz Ch40694 RB100 Offset0_(QPSK)

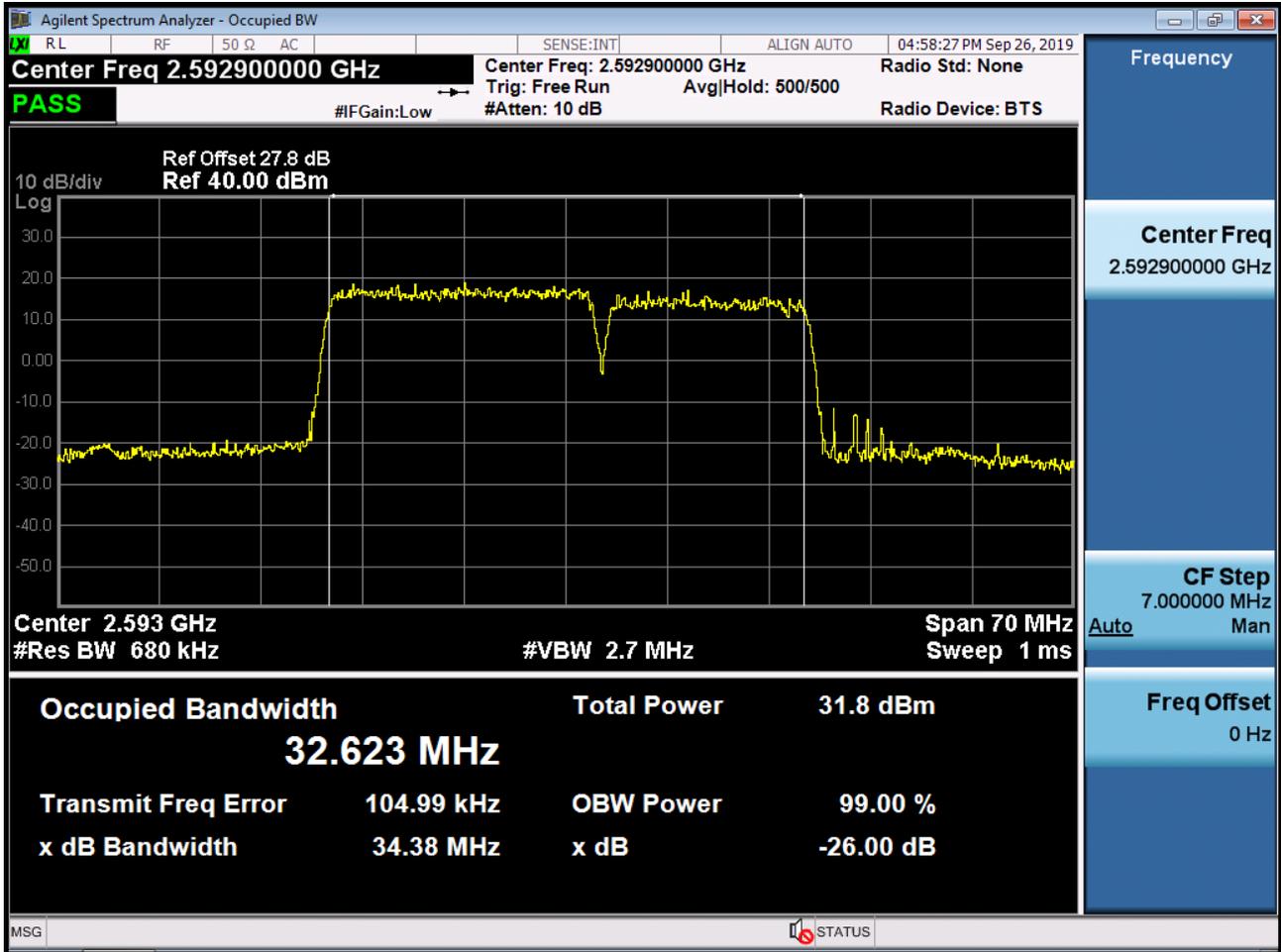PCC 15MHz Ch40545 RB75 Offset0, SCC 15MHz Ch40695 RB75 Offset0_(QPSK)

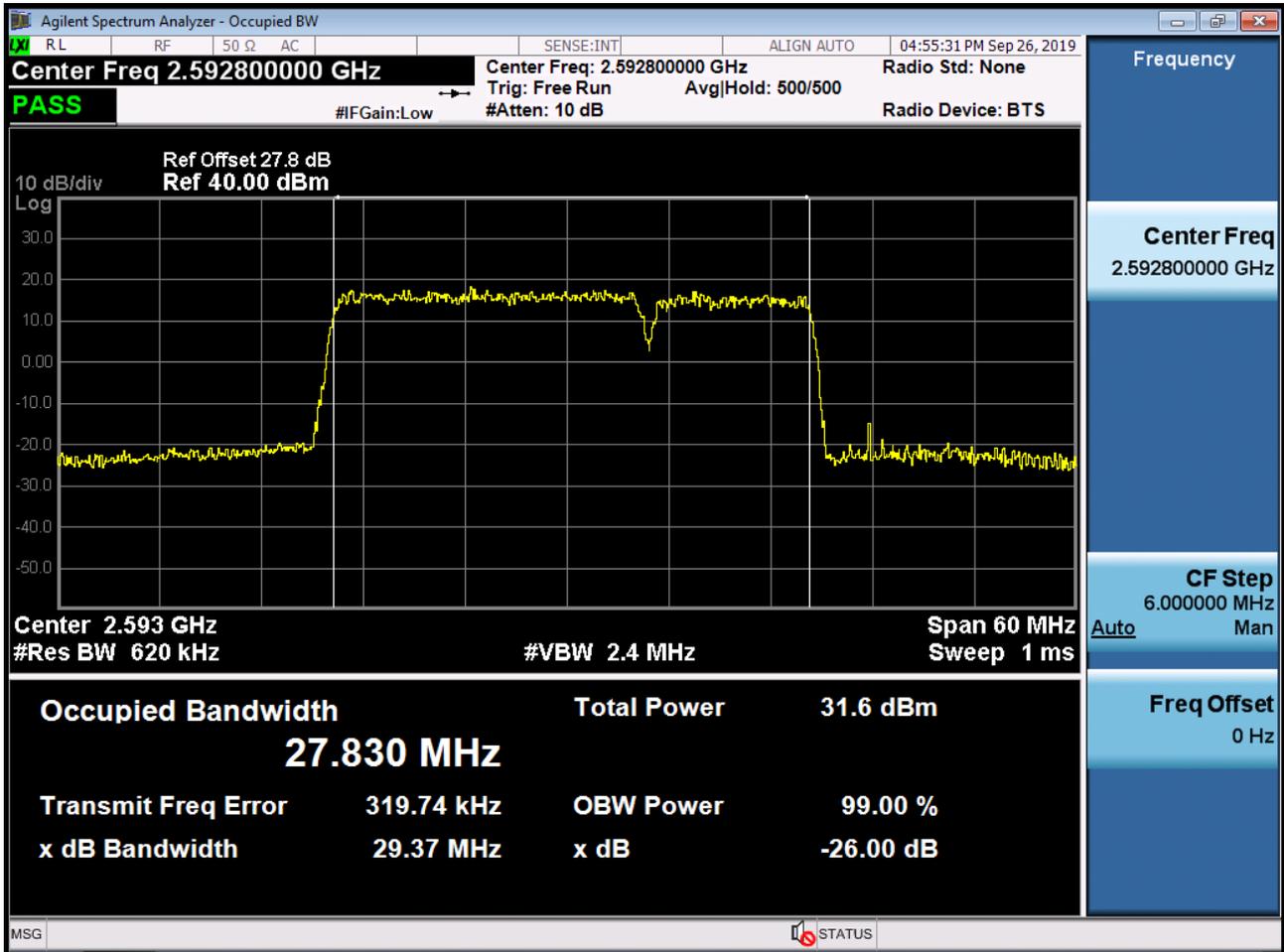PCC 15MHz Ch40571 RB75 Offset0, SCC 10MHz Ch40691 RB50 Offset0_(QPSK)

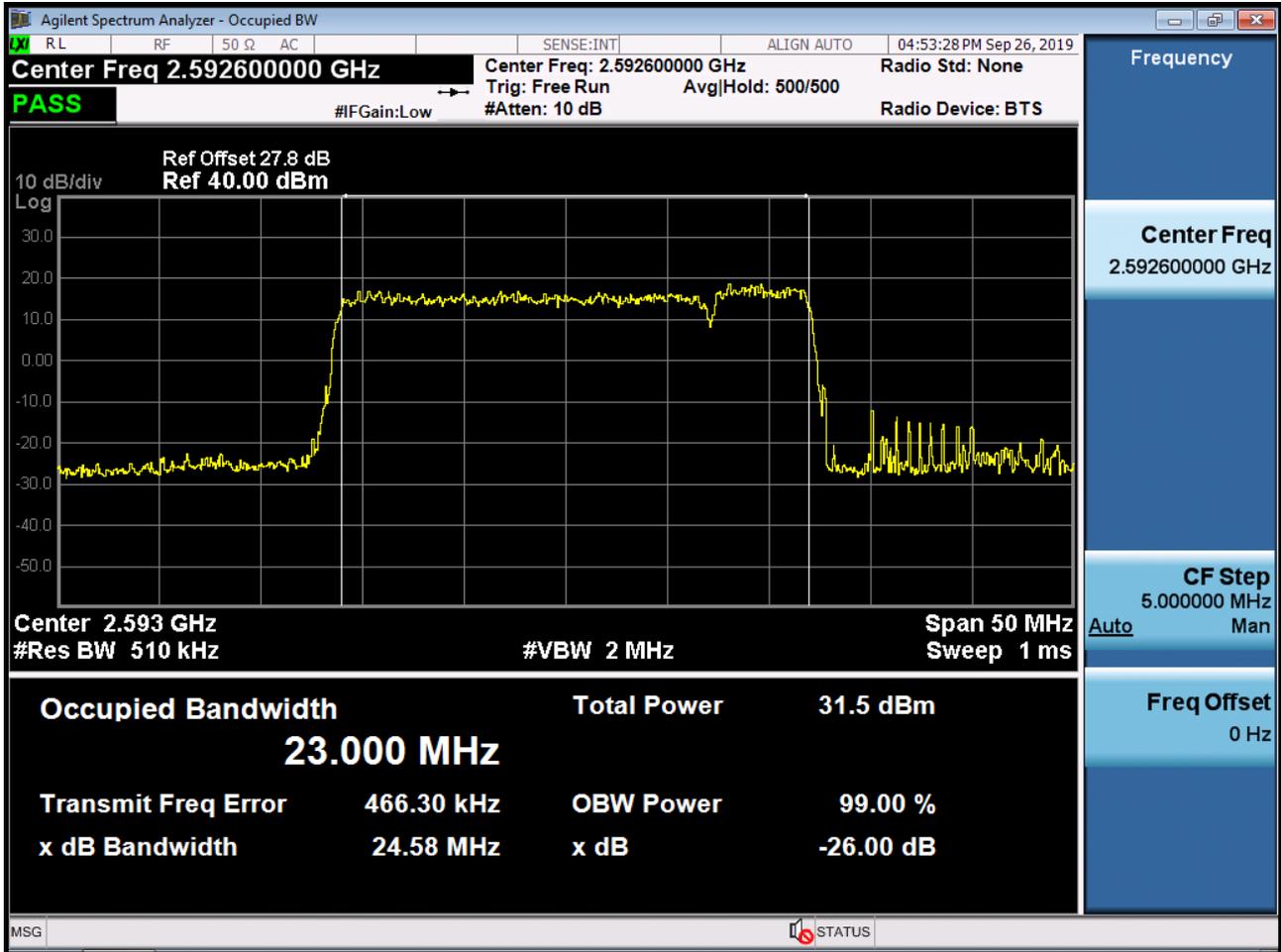PCC 20MHz Ch40521 RB100 Offset0, SCC 20MHz Ch40719 RB100 Offset0_(QPSK)

PCC 20MHz Ch40546 RB100 Offset0, SCC 15MHz Ch40717 RB75 Offset0_(QPSK)

PCC 20MHz Ch40571 RB100 Offset0, SCC 10MHz Ch40715 RB50 Offset0_(QPSK)

PCC 20MHz Ch40595 RB100 Offset0, SCC 5MHz Ch40712 RB25 Offset0_(QPSK)

8.8 Peak- to- Average Ratio

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	
5	*40528*	*2583.8*	*QPSK*	*25/ 0*	*20*	*40645*	*2595.5*	*QPSK*	*100/ 0*	*5.97*
10	40549	2585.9	QPSK	50/ 0	15	40669	2597.9	QPSK	75/ 0	6.02
10	40526	2583.6	QPSK	50/ 0	20	40670	2598	QPSK	100/ 0	6.05
15	*40571*	*2588.1*	*QPSK*	*75/ 0*	*10*	*40691*	*2600.1*	*QPSK*	*50/ 0*	*6.12*
15	40545	2585.5	QPSK	75/ 0	15	40695	2600.5	QPSK	75/ 0	6.05
15	40523	2583.3	QPSK	75/ 0	20	40694	2600.4	QPSK	100/ 0	6.05
20	40595	2590.5	QPSK	100/ 0	5	40712	2602.2	QPSK	25/ 0	6.08
20	40571	2588.1	QPSK	100/ 0	10	40715	2602.5	QPSK	50/ 0	5.75
20	40546	2585.6	QPSK	100/ 0	15	40717	2602.7	QPSK	75/ 0	6.08
20	40521	2583.1	QPSK	100/ 0	20	40719	2602.9	QPSK	100/ 0	5.84

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	
5	*40528*	*2583.8*	*16QAM*	*25/ 0*	*20*	*40645*	*2595.5*	*16QAM*	*100/ 0*	*6.68*
10	40549	2585.9	16QAM	50/ 0	15	40669	2597.9	16QAM	75/ 0	6.64
10	40526	2583.6	16QAM	50/ 0	20	40670	2598	16QAM	100/ 0	6.58
15	*40571*	*2588.1*	*16QAM*	*75/ 0*	*10*	*40691*	*2600.1*	*16QAM*	*50/ 0*	*6.65*
15	40545	2585.5	16QAM	75/ 0	15	40695	2600.5	16QAM	75/ 0	6.59
15	40523	2583.3	16QAM	75/ 0	20	40694	2600.4	16QAM	100/ 0	6.61
20	40595	2590.5	16QAM	100/ 0	5	40712	2602.2	16QAM	25/ 0	6.65
20	40571	2588.1	16QAM	100/ 0	10	40715	2602.5	16QAM	50/ 0	6.57
20	40546	2585.6	16QAM	100/ 0	15	40717	2602.7	16QAM	75/ 0	6.57
20	40521	2583.1	16QAM	100/ 0	20	40719	2602.9	16QAM	100/ 0	6.52

PCC					SCC					Data (dBm)
BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	BW [MHz]	Ch	Freq [MHz]	Mod	RB/ Offset	
5	*40528*	*2583.8*	*64QAM*	*25/ 0*	*20*	*40645*	*2595.5*	*64QAM*	*100/ 0*	*6.98*
10	40549	2585.9	64QAM	50/ 0	15	40669	2597.9	64QAM	75/ 0	6.97
10	40526	2583.6	64QAM	50/ 0	20	40670	2598	64QAM	100/ 0	6.94
15	*40571*	*2588.1*	*64QAM*	*75/ 0*	*10*	*40691*	*2600.1*	*64QAM*	*50/ 0*	*6.93*
15	40545	2585.5	64QAM	75/ 0	15	40695	2600.5	64QAM	75/ 0	6.93
15	40523	2583.3	64QAM	75/ 0	20	40694	2600.4	64QAM	100/ 0	6.97
20	40595	2590.5	64QAM	100/ 0	5	40712	2602.2	64QAM	25/ 0	6.96
20	40571	2588.1	64QAM	100/ 0	10	40715	2602.5	64QAM	50/ 0	6.80
20	40546	2585.6	64QAM	100/ 0	15	40717	2602.7	64QAM	75/ 0	6.83
20	40521	2583.1	64QAM	100/ 0	20	40719	2602.9	64QAM	100/ 0	6.90

Note:

1. In order to simplify the report, attached plots were only worst-case.

2. Operating frequency : Mid

PCC 5MHz Ch40528 RB25 Offset0, SCC 20MHz Ch40645 RB100 Offset0_(QPSK)

Agilent Spectrum Analyzer - Power Stat CCDF

LXI　R L　　RF　　50 Ω　AC　　　　　　　SENSE:INT　　　ALIGN AUTO　02:54:43 PM Sep 26, 2019

Center Freq 2.593400000 GHz　　　　Center Freq: 2.593400000 GHz　　Radio Std: None
　　　　　　　　　　　　　　　　　　Trig: RF Burst　　Counts:2.00 M/2.00 Mpt
　　　　　　　　　　#IFGain:Low　　#Atten: 10 dB

Average Power

22.37 dBm

44.42 % at 0dB

10.0 %	2.90 dB
1.0 %	4.87 dB
0.1 %	5.97 dB
0.01 %	6.90 dB
0.001 %	7.69 dB
0.0001 %	8.01 dB
Peak	8.03 dB
	30.40 dBm

Gaussian

100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %
0 dB　　　　　　　　　　　　　　　　20 dB
Info BW 25.000 MHz

Frequency

Center Freq
2.593400000 GHz

CF Step
5.000000 MHz
Auto　　Man

Freq Offset
0 Hz

MSG　　　　　　　　　　　　　　　STATUS

PCC 5MHz Ch40528 RB25 Offset0, SCC 20MHz Ch40645 RB100 Offset0_(16QAM)

Agilent Spectrum Analyzer - Power Stat CCDF

R L   RF   50 Ω   AC   SENSE:INT   ALIGN AUTO   02:57:02 PM Sep 26, 2019

Center Freq 2.593400000 GHz   Center Freq: 2.593400000 GHz   Radio Std: None
                                                     Trig: RF Burst   Counts:2.00 M/2.00 Mpt
                              #IFGain:Low   #Atten: 10 dB

Average Power

21.40 dBm

42.03 % at 0dB

10.0 %	3.22 dB
1.0 %	5.44 dB
0.1 %	6.68 dB
0.01 %	7.54 dB
0.001 %	8.34 dB
0.0001 %	8.70 dB
Peak	8.71 dB
	30.11 dBm

Gaussian

100 %
10 %
1 %
0.1 %
0.01 %
0.001 %
0.0001 %

0 dB   20 dB
Info BW 25.000 MHz

Frequency

Center Freq
2.593400000 GHz

CF Step
5.000000 MHz
Auto   Man

Freq Offset
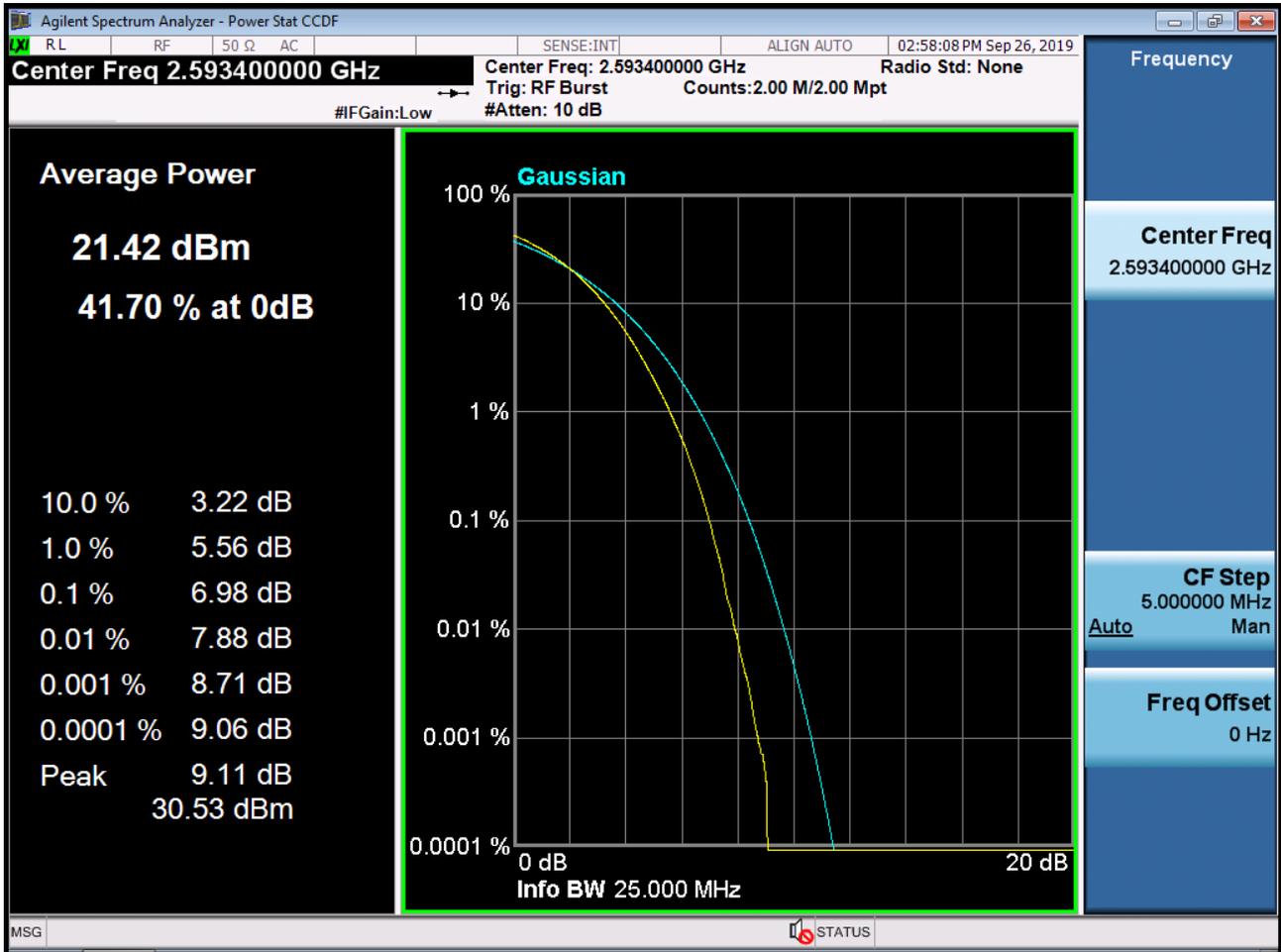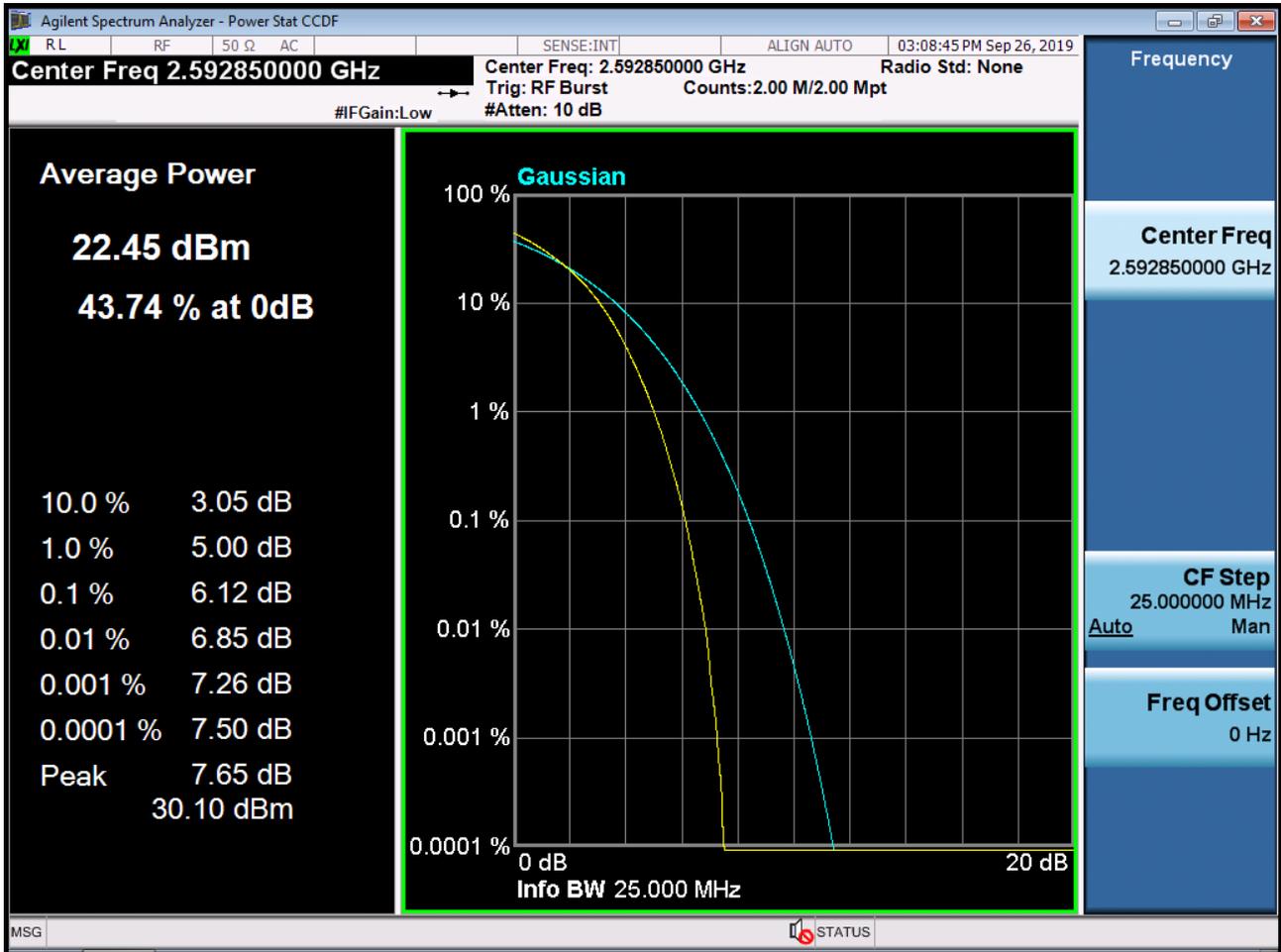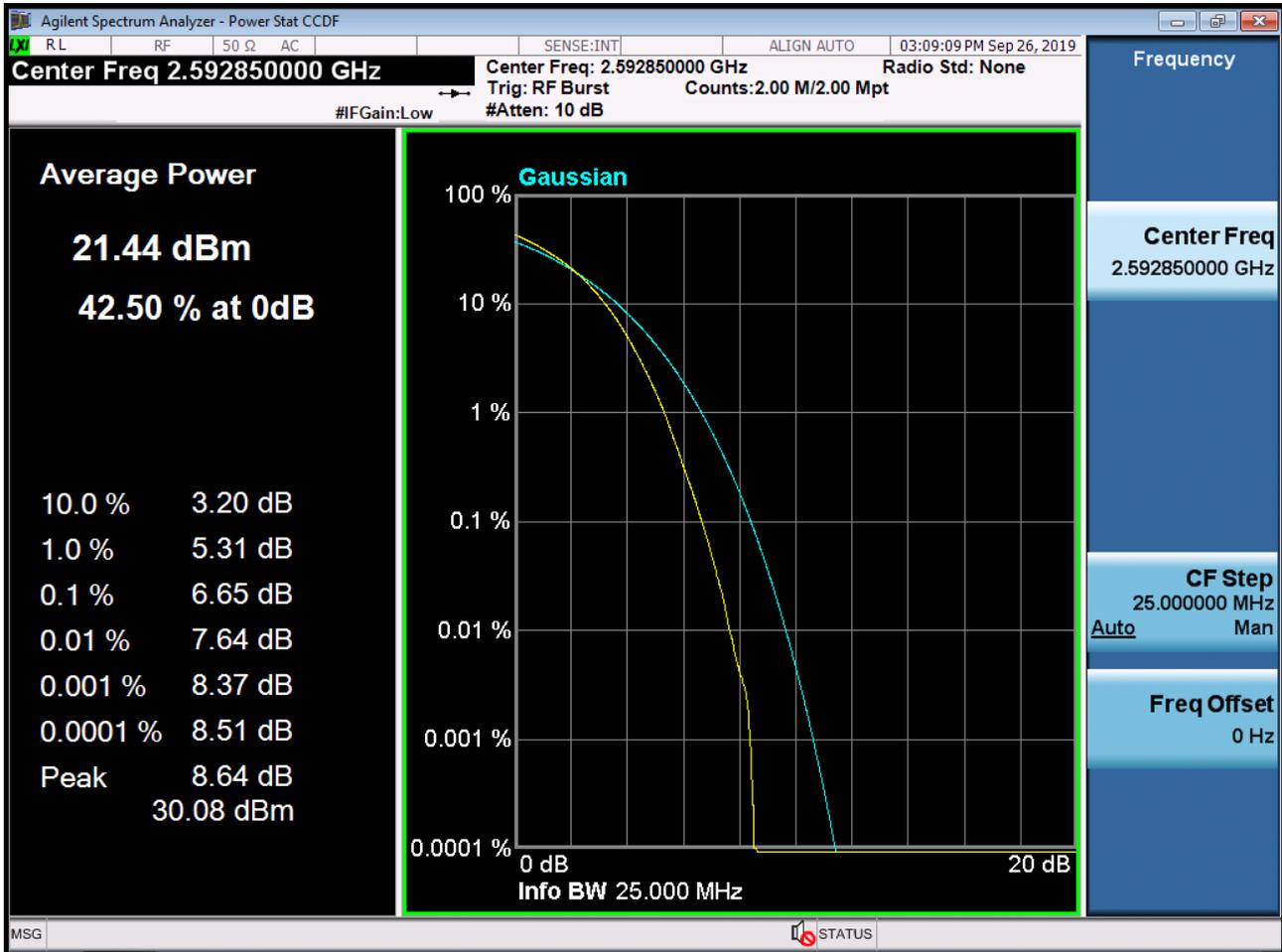0 Hz

MSG   STATUS

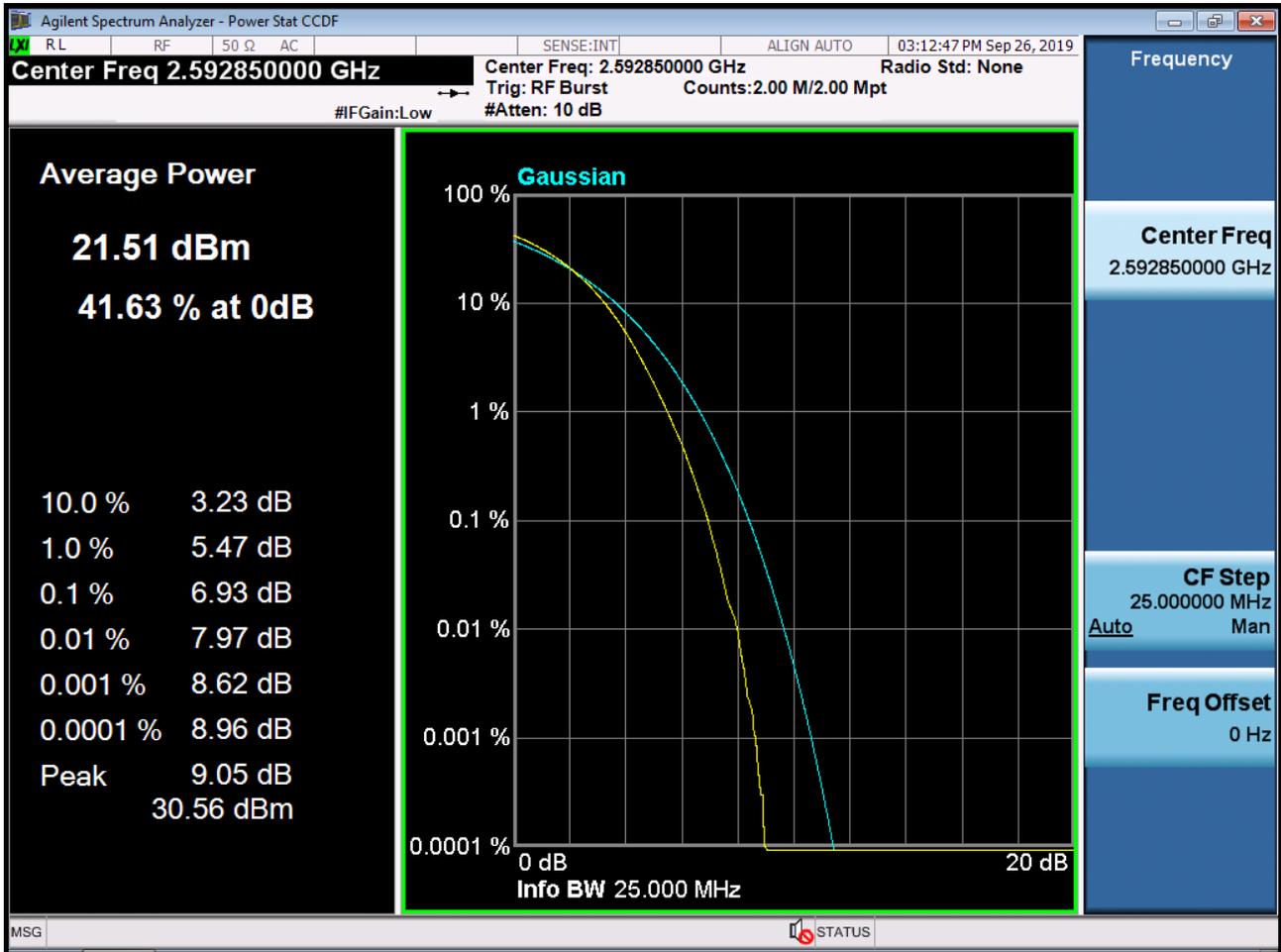PCC 5MHz Ch40528 RB25 Offset0, SCC 20MHz Ch40645 RB100 Offset0_(64QAM)

PCC 15MHz Ch40571 RB75 Offset0, SCC 10MHz Ch40691 RB50 Offset0_(QPSK)

PCC 15MHz Ch40571 RB75 Offset0, SCC 10MHz Ch40691 RB50 Offset0_(16QAM)

PCC 15MHz Ch40571 RB75 Offset0, SCC 10MHz Ch40691 RB50 Offset0_(64QAM)

8.9 Entry List

Mode (PCC+SCC)	Tx Frequency (MHz)	Modulation	Emission Designator	EIRP	
				Max. Power (dBm)	Max. Power (W)
5MHz + 20MHz	2498.5 – 2687.5	QPSK	22M9G7D	22.43	0.18
		16QAM	22M8W7D	21.63	0.15
		64QAM	22M8W7D	19.58	0.09
10MHz + 15MHz	2501 – 2685	QPSK	23M1G7D	22.73	0.19
		16QAM	23M1W7D	21.76	0.15
		64QAM	23M1W7D	19.83	0.10
10MHz + 20MHz	2501 – 2685	QPSK	27M7G7D	22.91	0.20
		16QAM	27M7W7D	22.02	0.16
		64QAM	27M8W7D	19.86	0.10
15MHz + 10MHz	2503.5 – 2682.5	QPSK	23M1G7D	23.07	0.20
		16QAM	23M2W7D	22.15	0.16
		64QAM	23M1W7D	20.02	0.10
15MHz + 15MHz	2503.5 – 2682.5	QPSK	28M4G7D	22.87	0.19
		16QAM	28M3W7D	21.88	0.15
		64QAM	28M6W7D	19.98	0.10
15MHz + 20MHz	2503.5 – 2682.5	QPSK	32M6G7D	22.77	0.19
		16QAM	32M6W7D	21.66	0.15
		64QAM	32M6W7D	19.80	0.10
20MHz + 5MHz	2506 – 2680	QPSK	23M0G7D	23.27	0.21
		16QAM	22M9W7D	22.17	0.16
		64QAM	22M8W7D	19.78	0.10
20MHz + 10MHz	2506 – 2680	QPSK	27M8G7D	22.83	0.19
		16QAM	27M8W7D	21.86	0.15
		64QAM	27M8W7D	19.50	0.09
20MHz + 15MHz	2506 – 2680	QPSK	32M6G7D	22.69	0.19
		16QAM	32M7W7D	21.78	0.15
		64QAM	32M7W7D	19.69	0.09
20MHz + 20MHz	2506 – 2680	QPSK	37M7G7D	22.44	0.18
		16QAM	37M5W7D	22.12	0.16
		64QAM	37M5W7D	19.60	0.09

9. ANNEX A_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1909-FC030-P