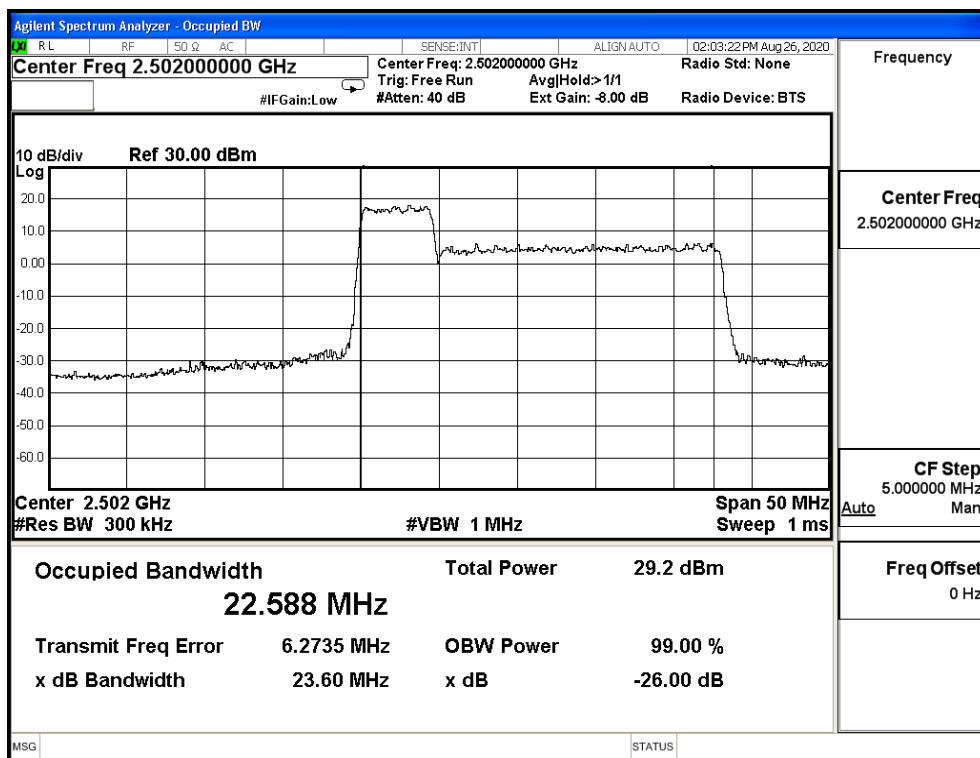
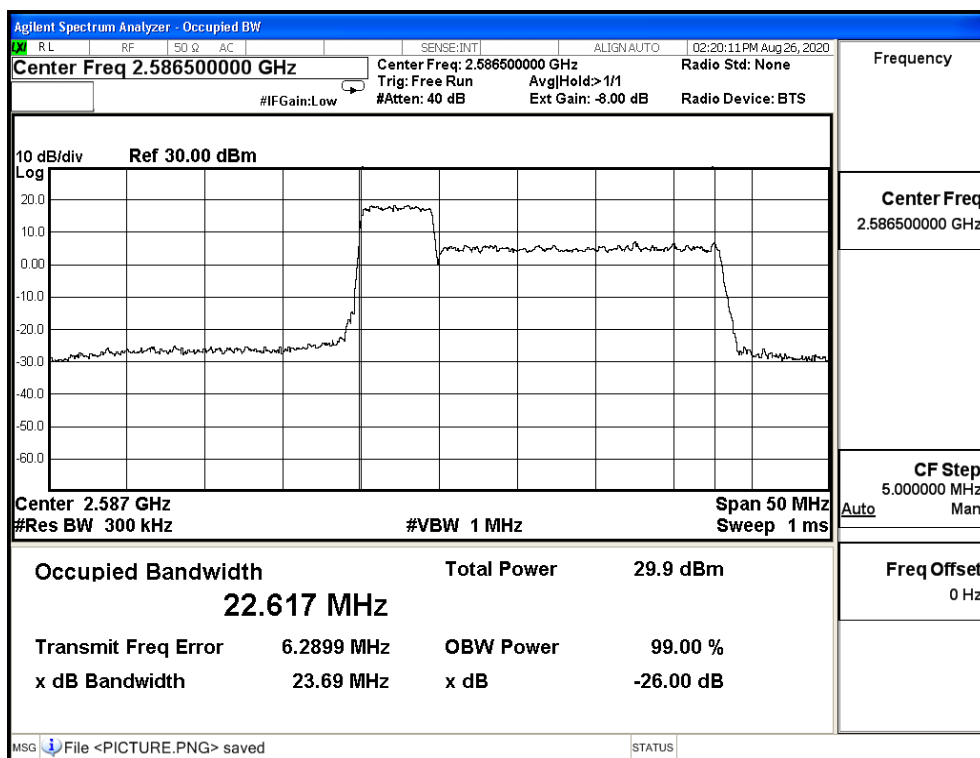


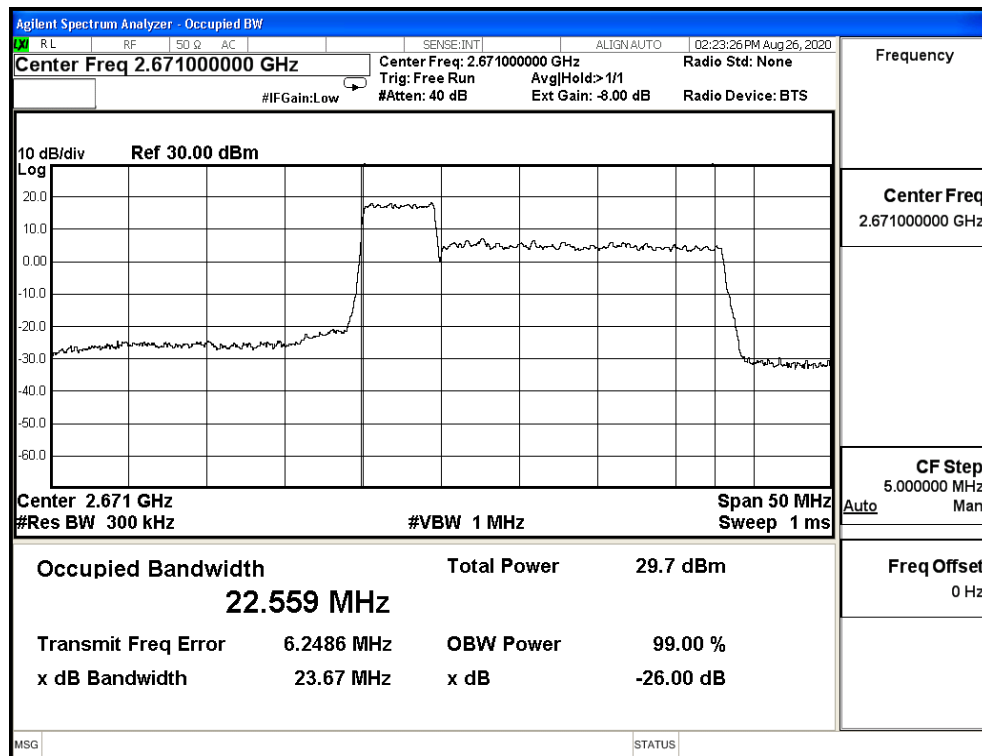
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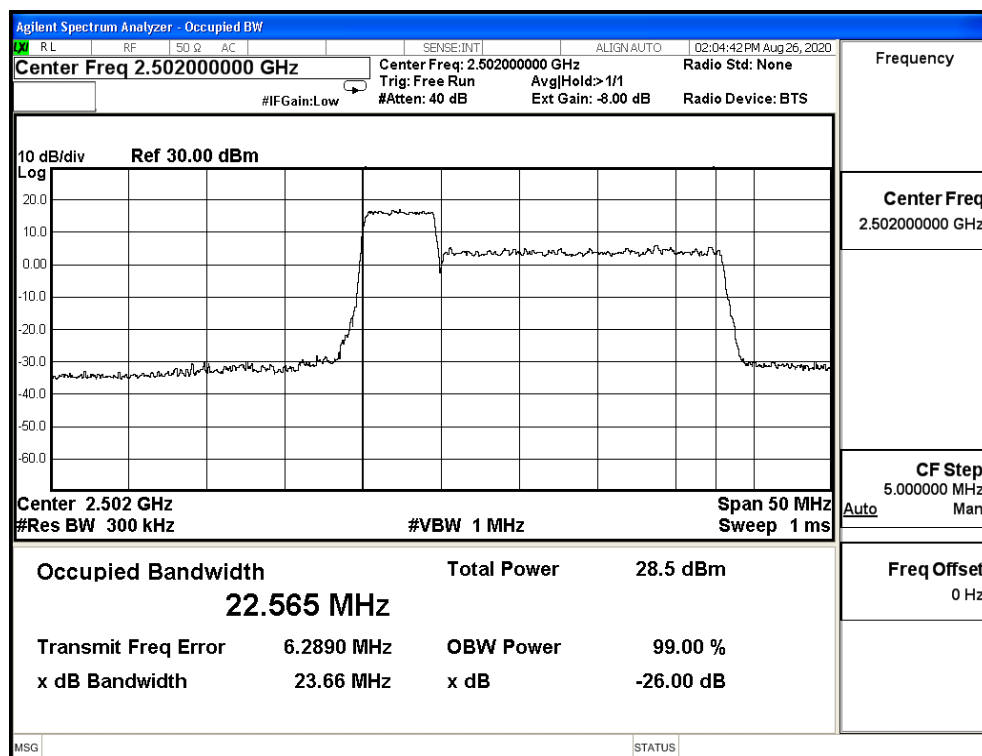
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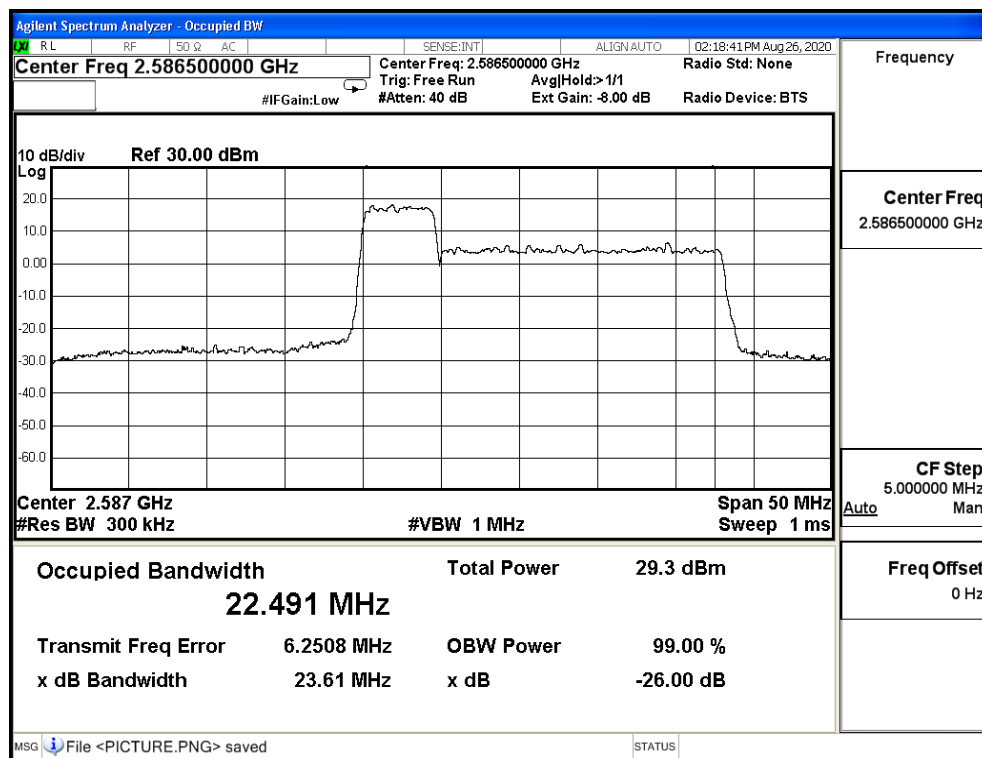
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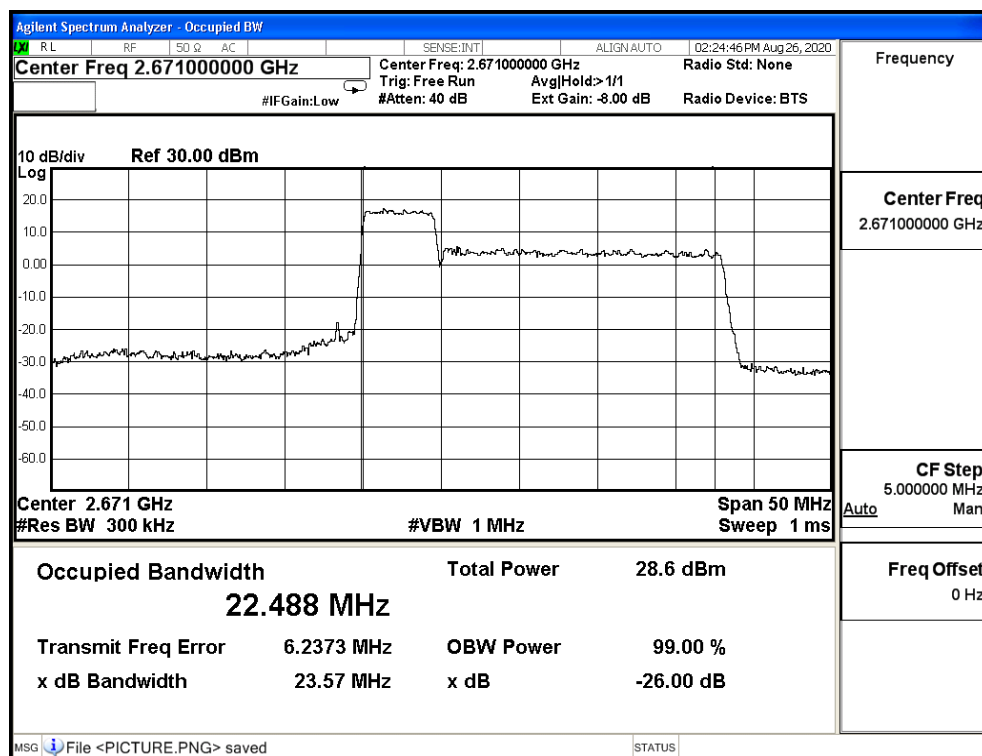
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CA_41C_CH40528+CH40645_5M+20M_16-QAM_25RB0+100RB0



CA_41C_CH41373+CH41490_5M+20M_16-QAM_25RB0+100RB0



Agilent Spectrum Analyzer - Occupied BW

☒ R L RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:08:06 PM Aug 26, 2020

Center Freq 2.502000000 GHz Center Freq: 2.502000000 GHz Radio Std: None Frequency

#IFGain: Low Trig: Free Run Avg/Hold: > 1/1 #Atten: 40 dB Ext Gain: -8.00 dB Radio Device: BTS

10 dB/div Ref 30.00 dBm

Log

Center 2.502 GHz Span 50 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms

Occupied Bandwidth	Total Power	28.6 dBm
22.640 MHz		
Transmit Freq Error	OBW Power	99.00 %
6.3124 MHz		
x dB Bandwidth	x dB	-26.00 dB
23.73 MHz		

CF Step 5.000000 MHz Auto Man
 Freq Offset 0 Hz

MSG STATUS

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:INT ALIGN AUTO 02:09:40 PM Aug 26, 2020

Center Freq 2.586500000 GHz Center Freq: 2.586500000 GHz Radio Std: None
 Trig: Free Run Avg/Hold: 1/1
 #IF Gain: Low #Atten: 40 dB Ext Gain: -8.00 dB Radio Device: BTS

10 dB/div Ref 30.00 dBm

Log

Center 2.587 GHz Span 50 MHz
 #Res BW 300 kHz Sweep 1 ms
 #VBW 1 MHz

Occupied Bandwidth	Total Power	28.8 dBm
22.560 MHz		
Transmit Freq Error	OBW Power	99.00 %
6.2594 MHz		
x dB Bandwidth	x dB	-26.00 dB
23.78 MHz		

MSG STATUS

Frequency

Center Freq
2.586500000 GHz

CF Step
5.000000 MHz
Man

Auto

Freq Offset
0 Hz

Agilent Spectrum Analyzer - Occupied BW

RL RF 50 Ω AC SENSE:INT ALIGN: AUTO 02:25:38 PM Aug 26, 2020

Center Freq 2.671000000 GHz Center Freq: 2.671000000 GHz Radio Std: None
 Trig: Free Run Avg[Hold]> 1/1
 #IFGain: Low #Atten: 40 dB Ext Gain: -8.00 dB Radio Device: BTS

10 dB/div Ref 30.00 dBm

Log

Center 2.671 GHz Span 50 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms

Measurement	Value
Occupied Bandwidth	22.477 MHz
Total Power	28.5 dBm
Transmit Freq Error	6.2283 MHz
OBW Power	99.00 %
x dB Bandwidth	23.63 MHz
x dB	-26.00 dB

MSG File <PICTURE.PNG> saved STATUS

Agilent Spectrum Analyzer - Occupied BW

RL RF SO Ω AC SENSE:INT ALIGN: AUTO 02:32:18 PM Aug 26, 2020

Center Freq 2.506000000 GHz Center Freq: 2.506000000 GHz Radio Std: None
 Trig: Free Run Avg[Hold]> 1/1
 #Atten: 40 dB Ext Gain: -8.00 dB Radio Device: BTS

#IF Gain: Low

10 dB/div Ref 30.00 dBm

Log

Center 2.506 GHz Span 50 MHz
 #Res BW 300 kHz #VBW 1 MHz Sweep 1 ms

Occupied Bandwidth		Total Power	
22.892 MHz		29.7 dBm	

Transmit Freq Error		OBW Power	
2.2561 MHz		99.00 %	

x dB Bandwidth		x dB	
24.13 MHz		-26.00 dB	

Frequency

Center Freq
2.506000000 GHz

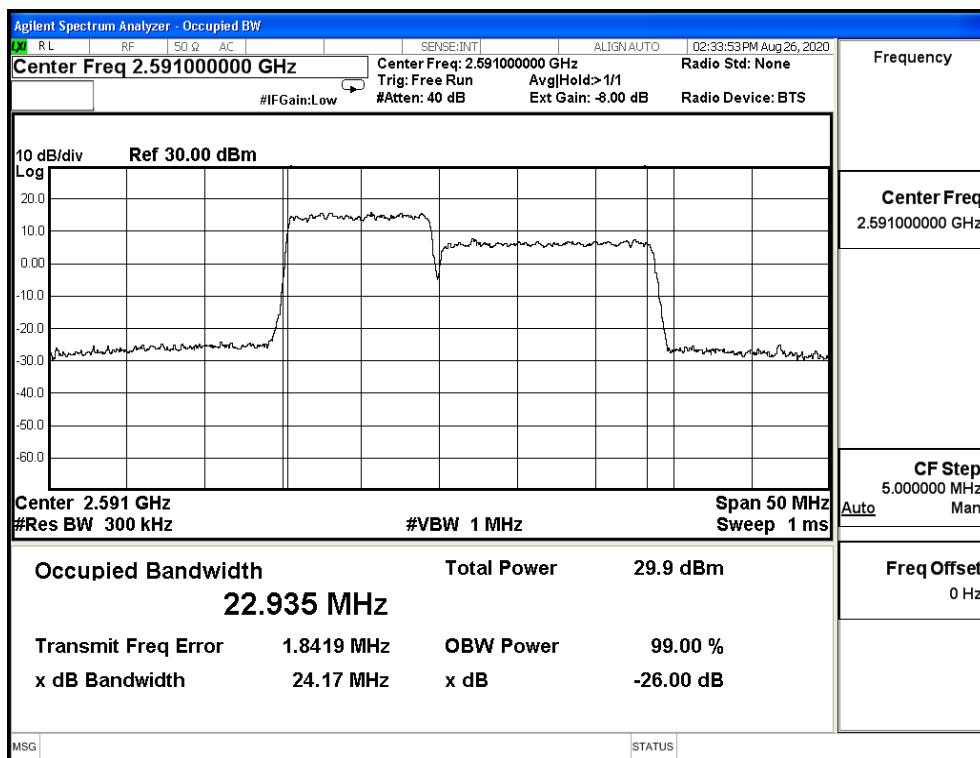
CF Step
5.000000 MHz
Man

Auto

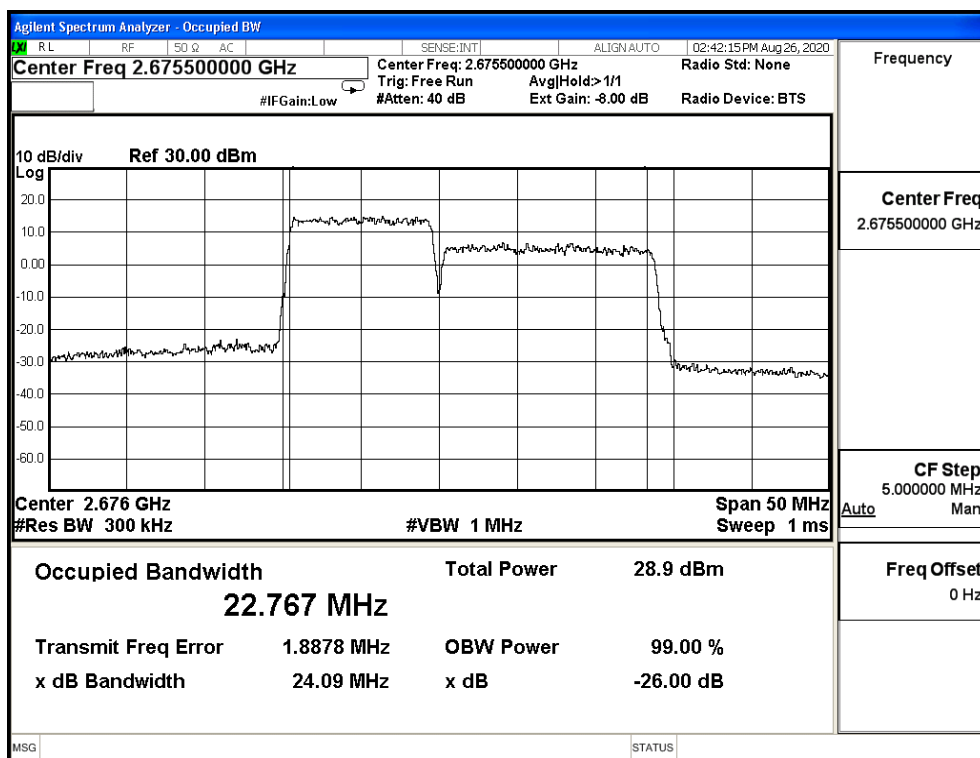
Freq Offset
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MSG STATUS

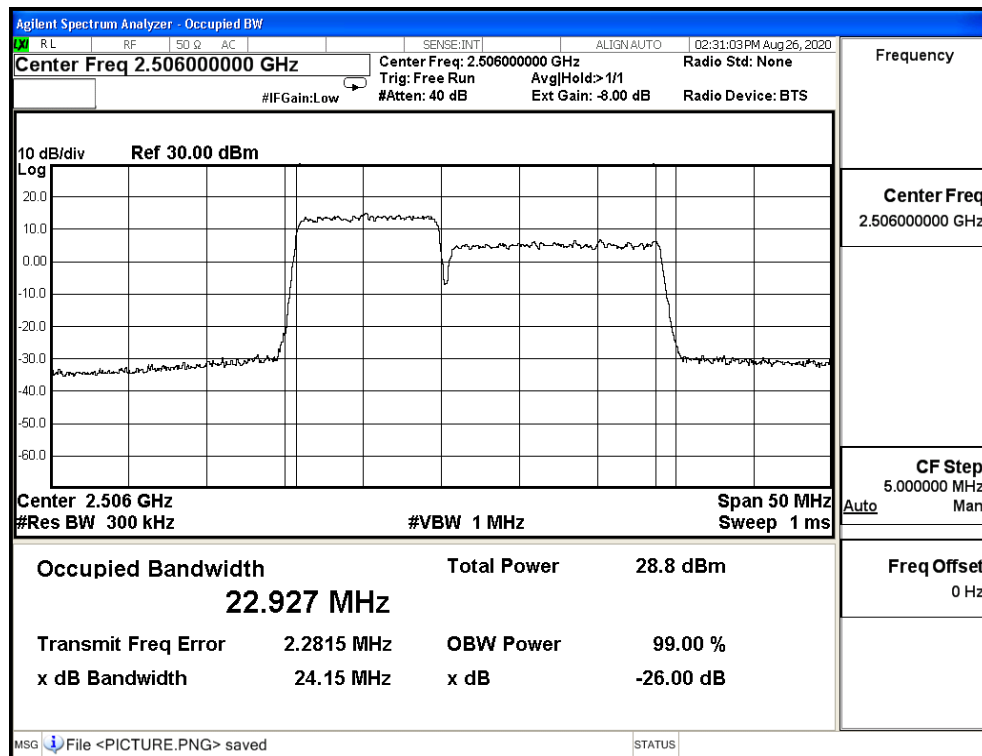
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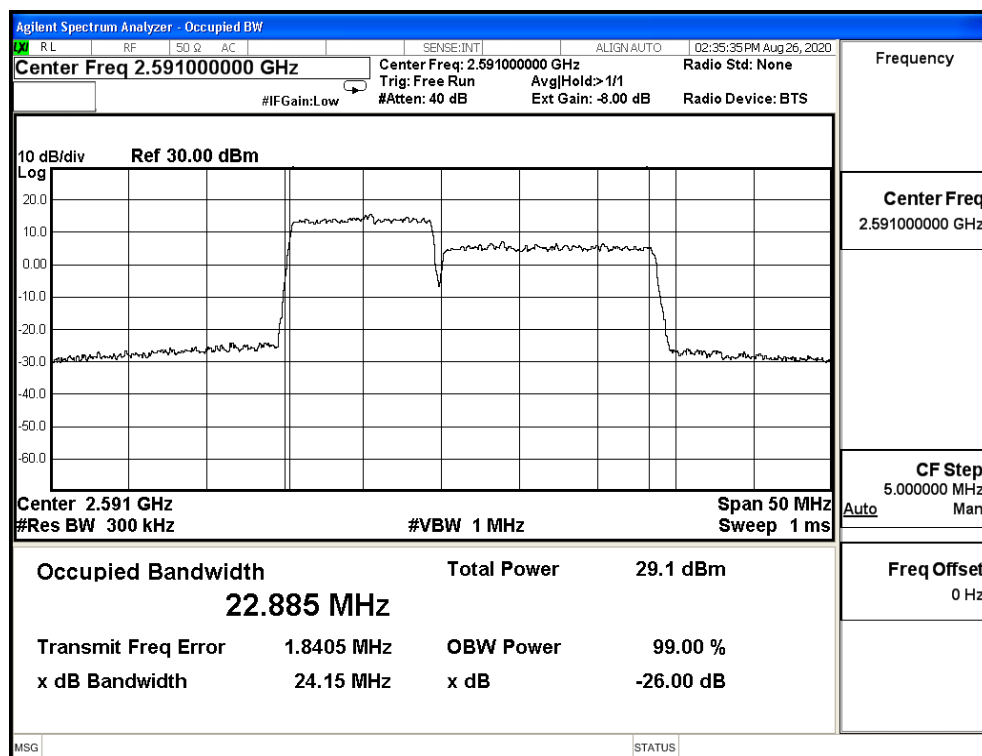
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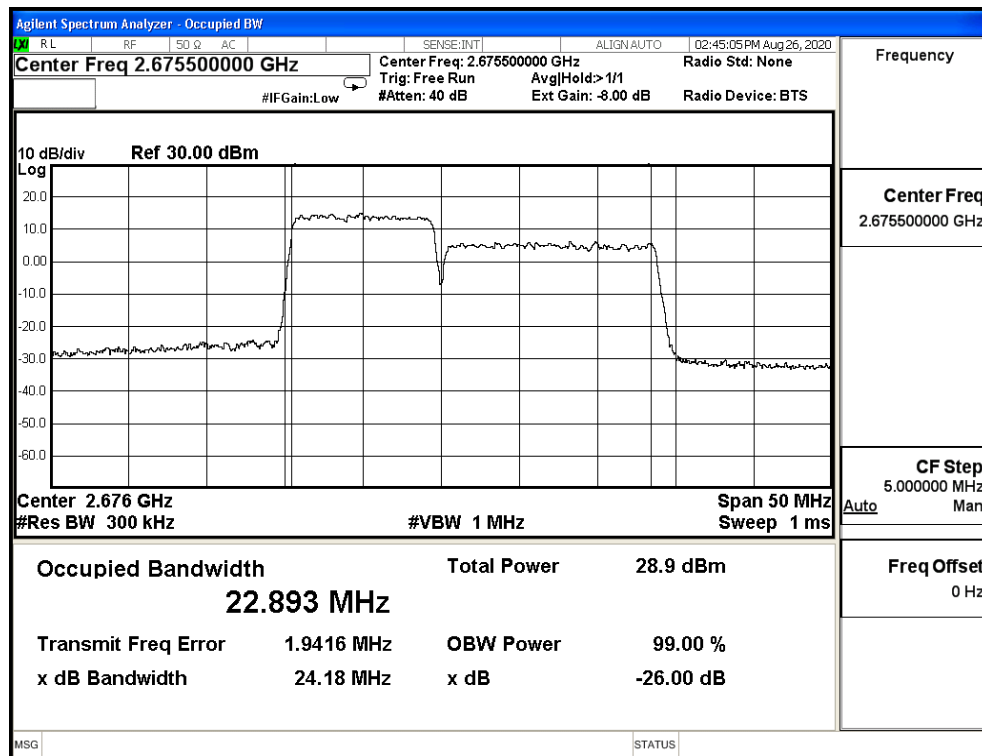
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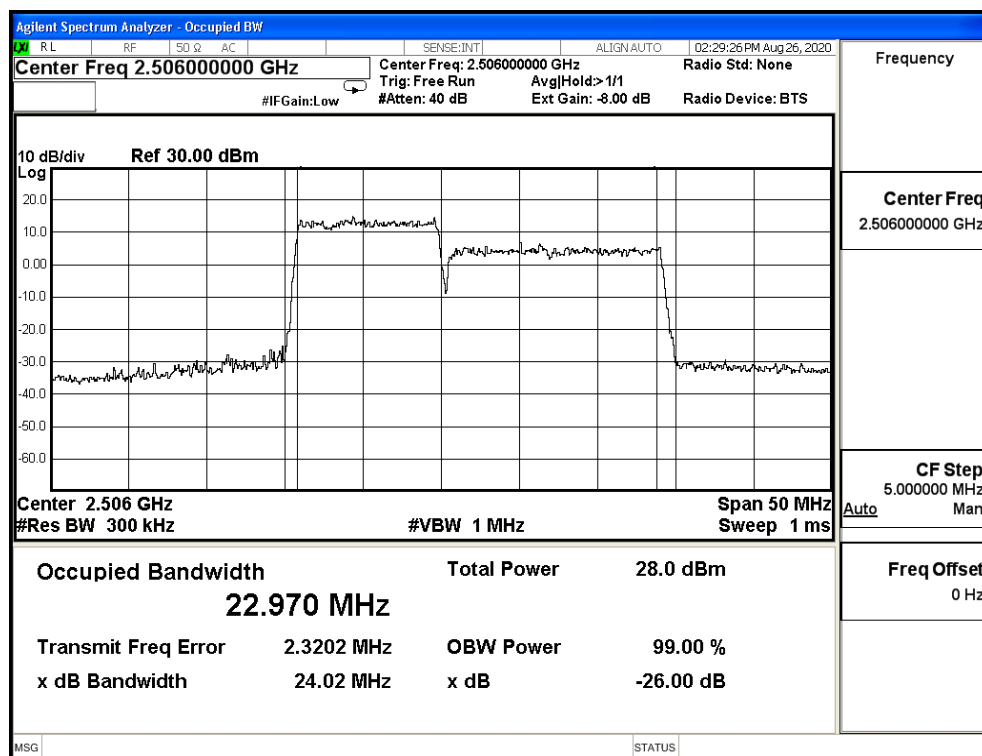
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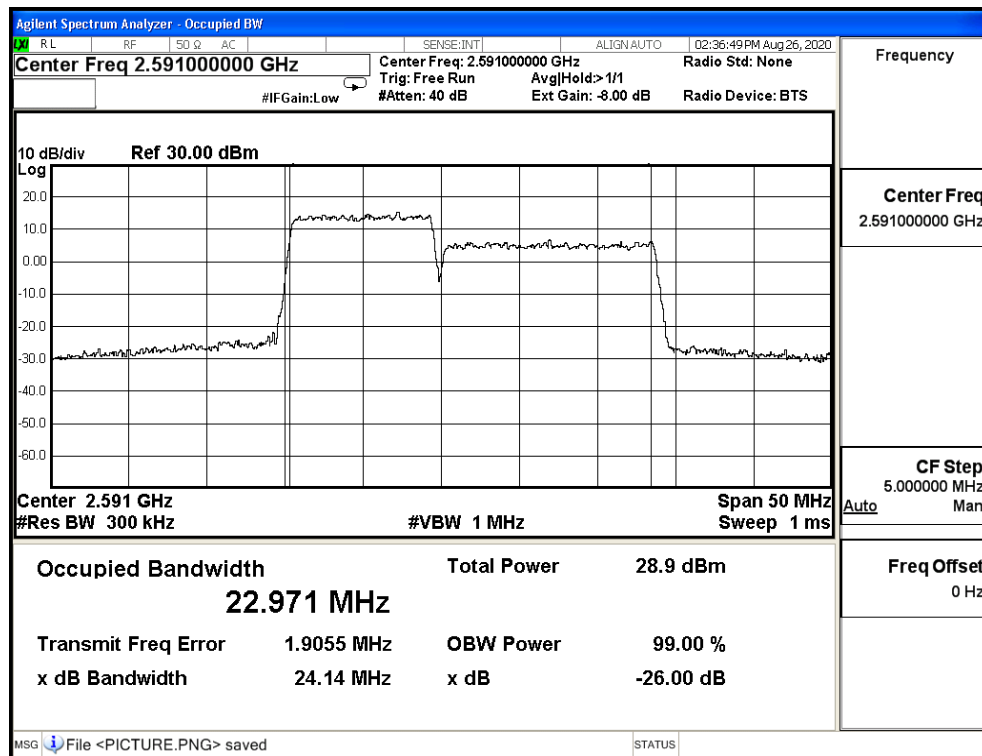
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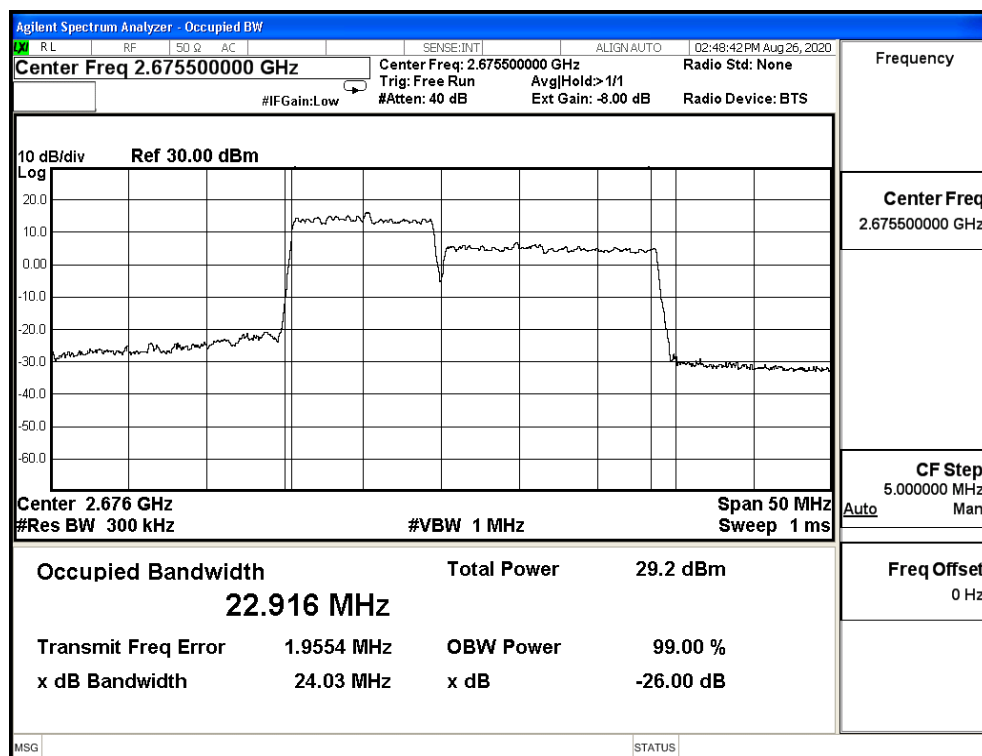
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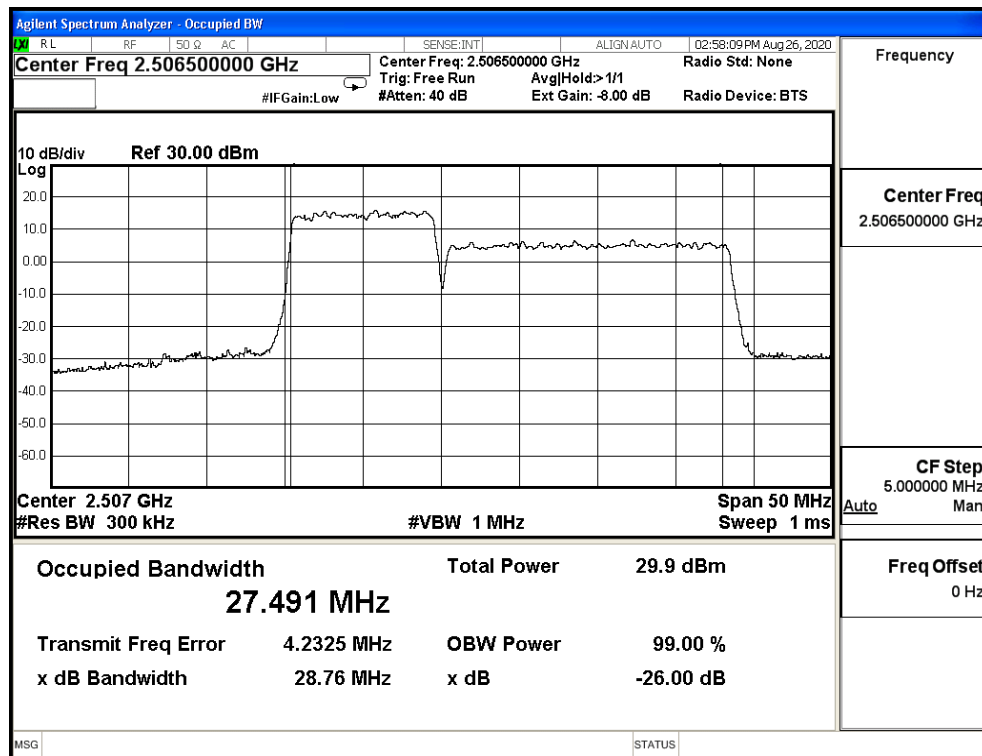
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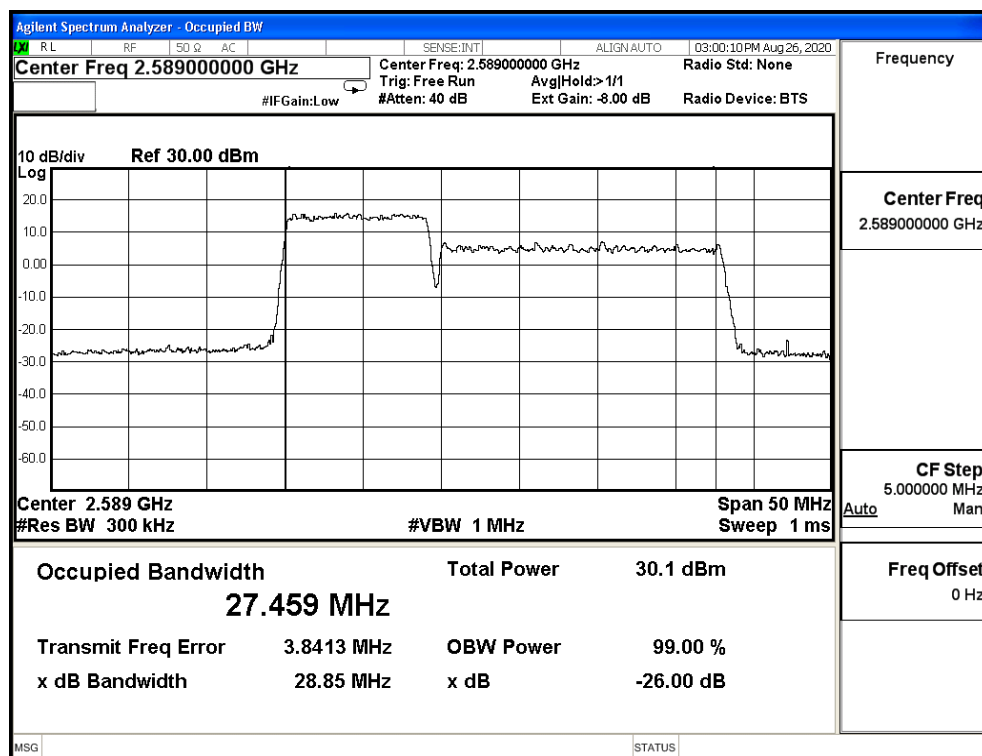
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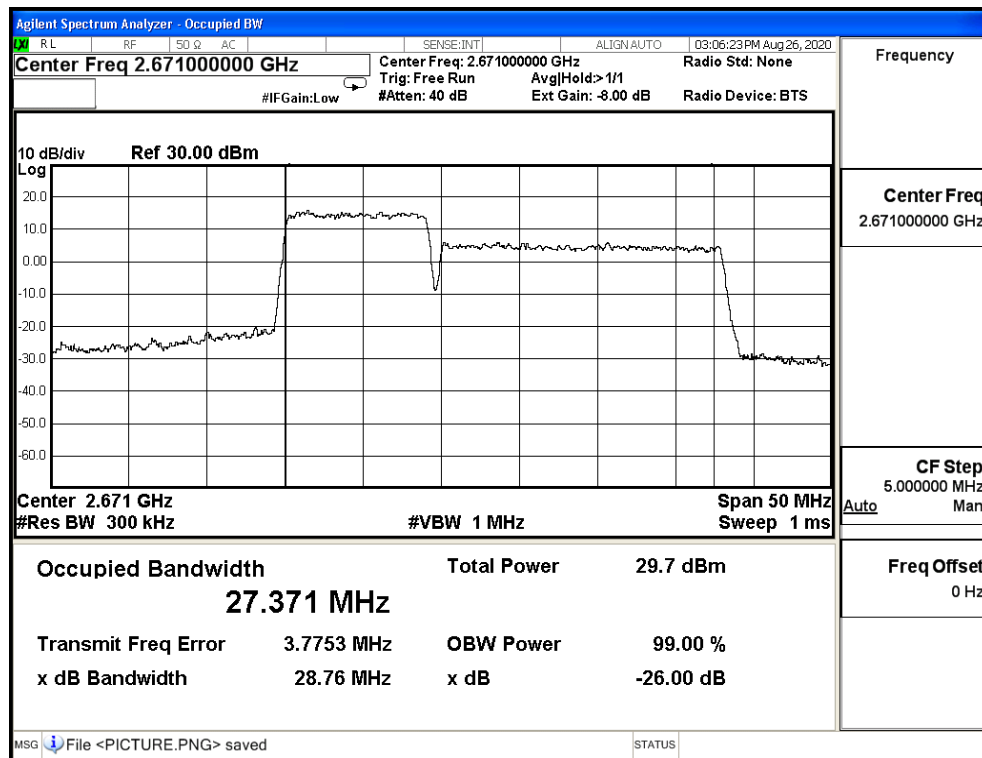
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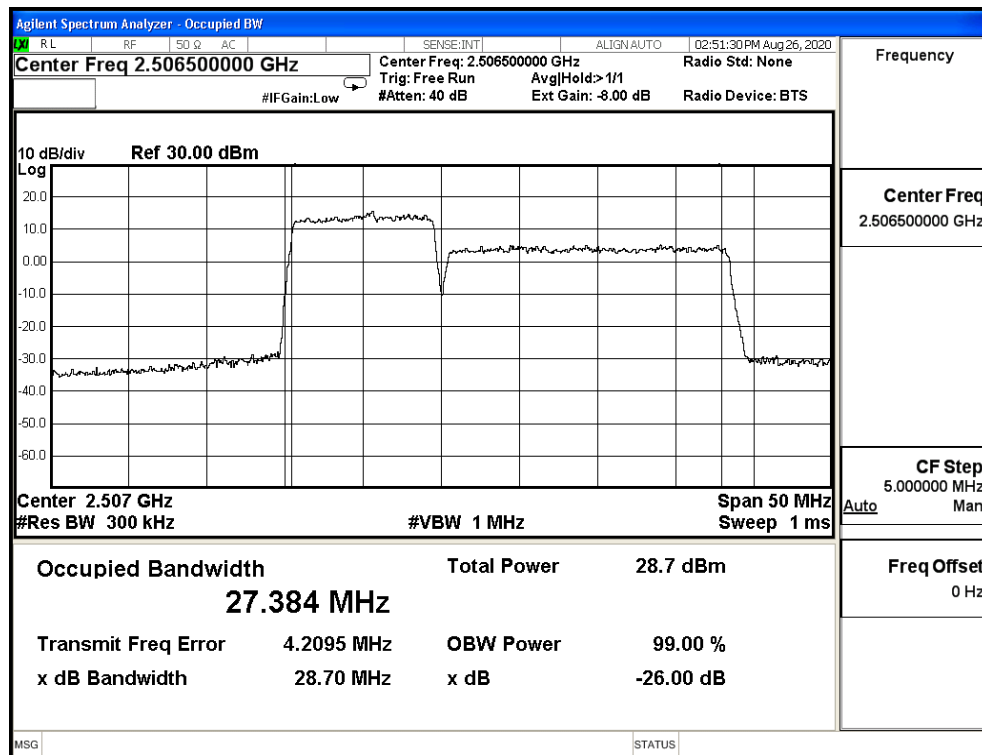
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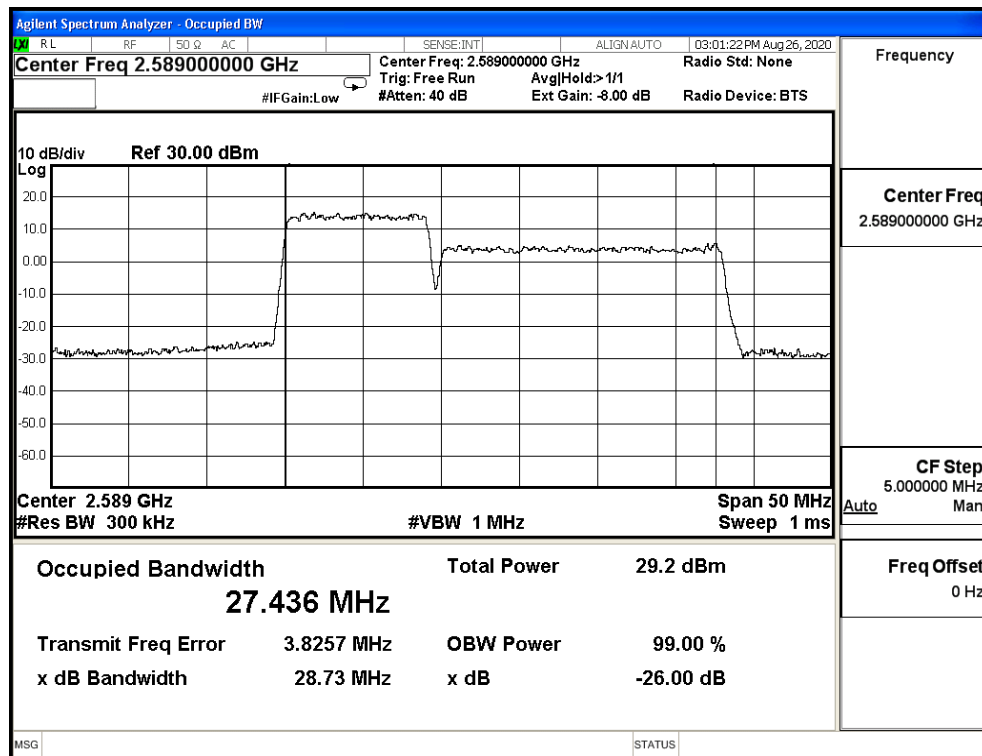
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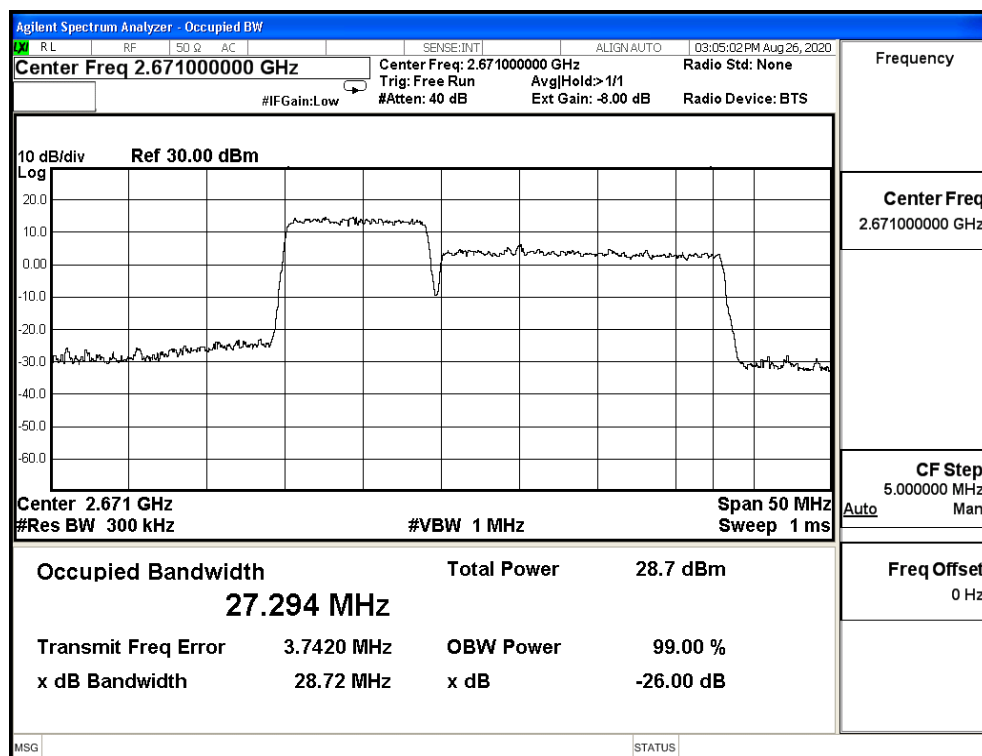
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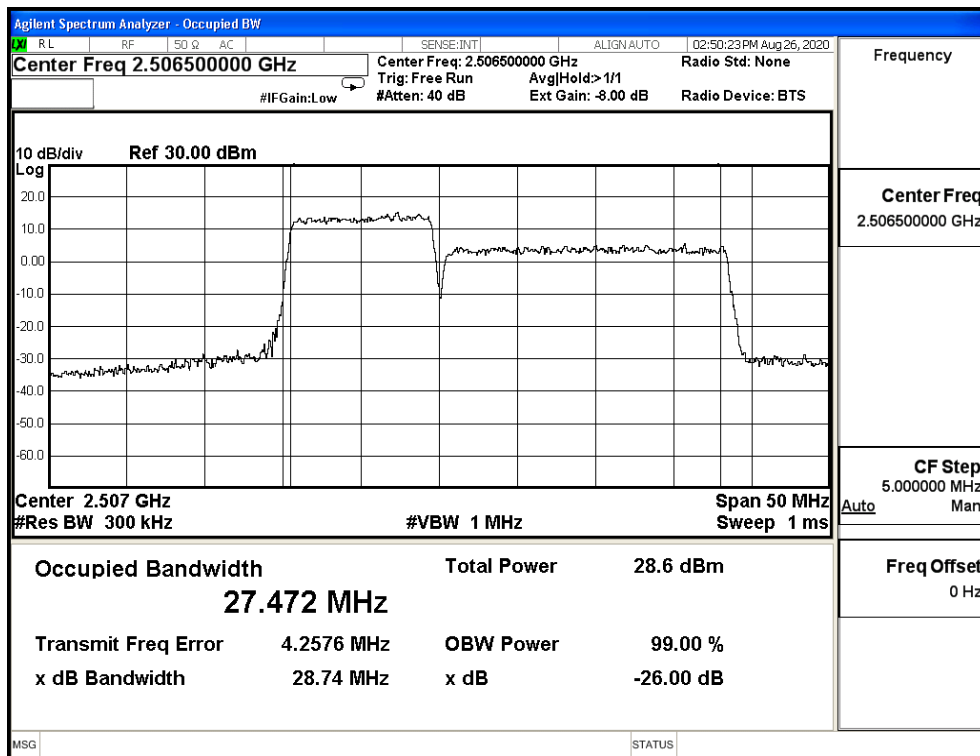
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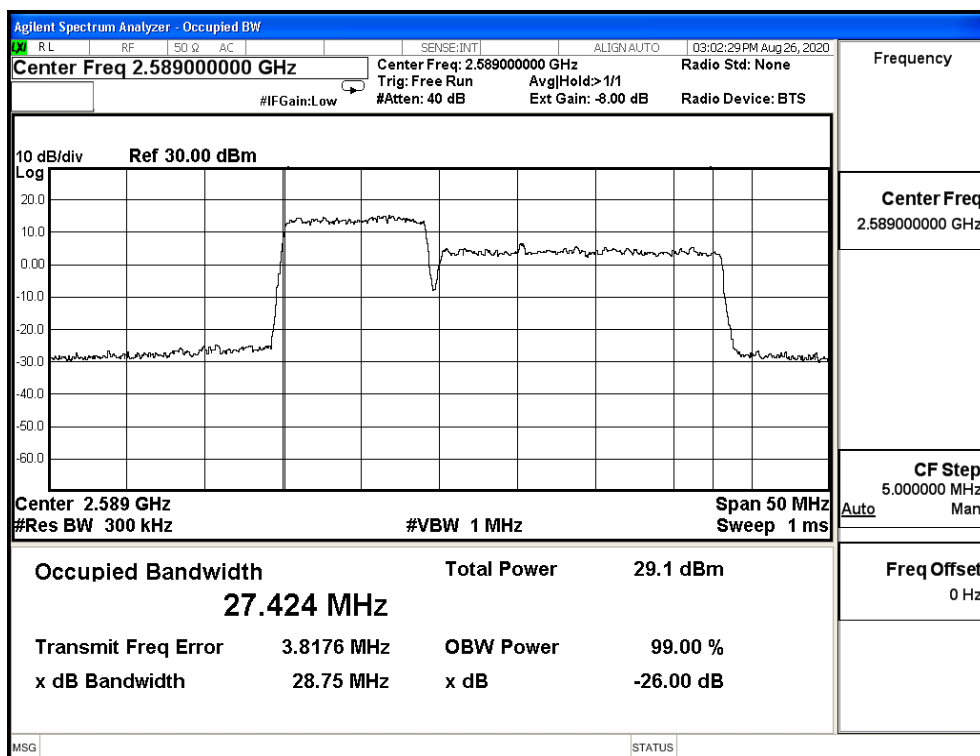
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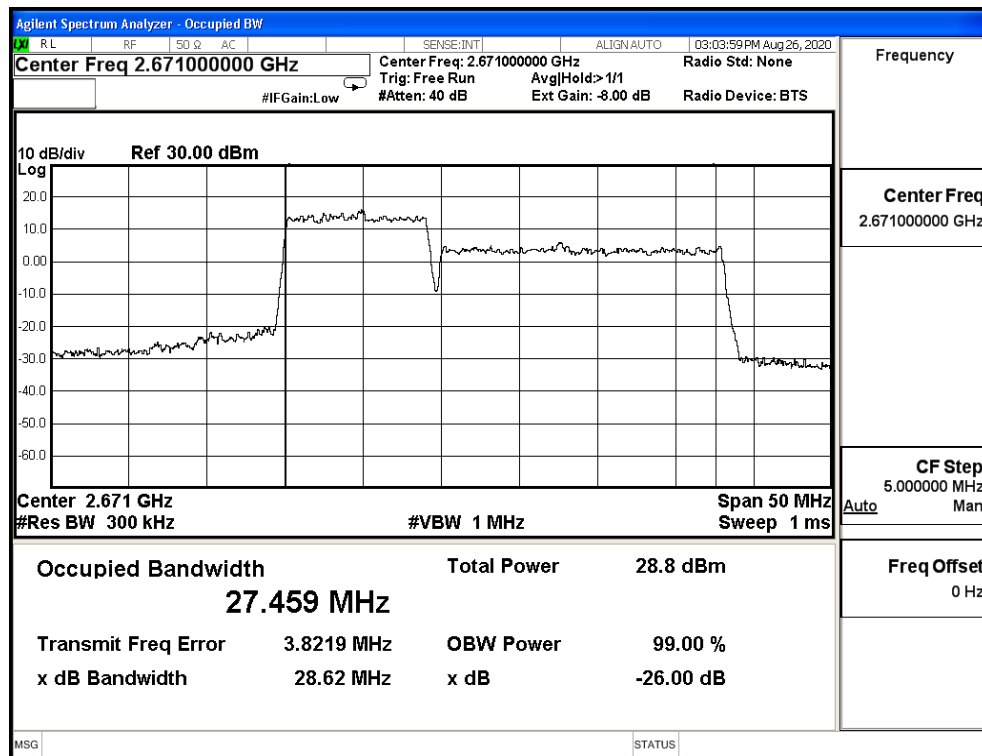
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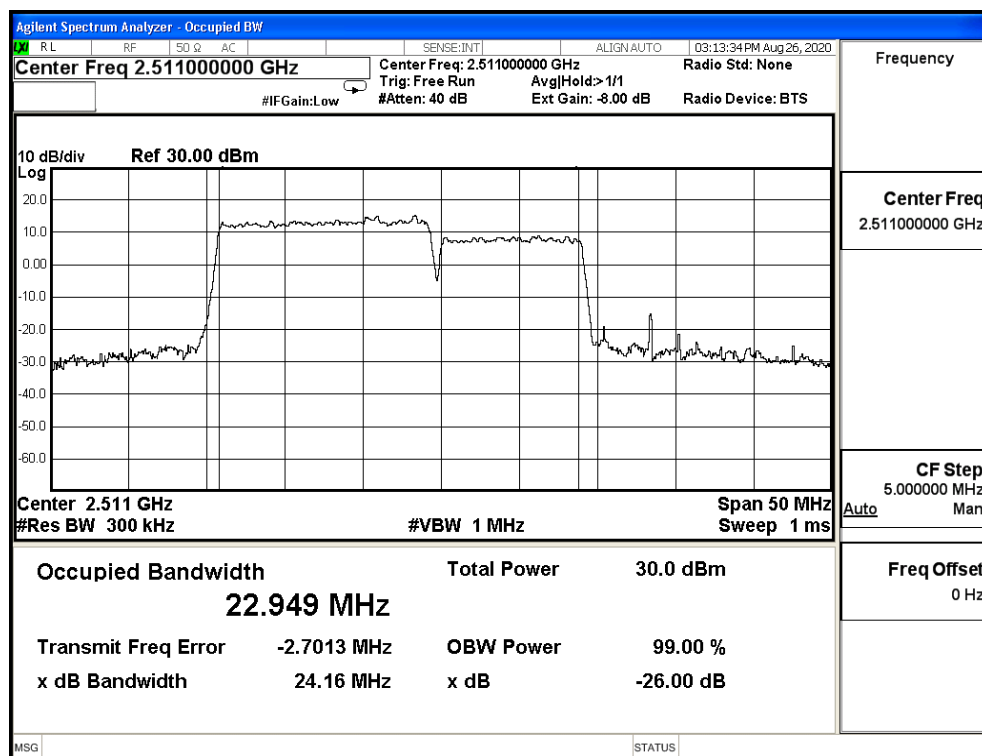
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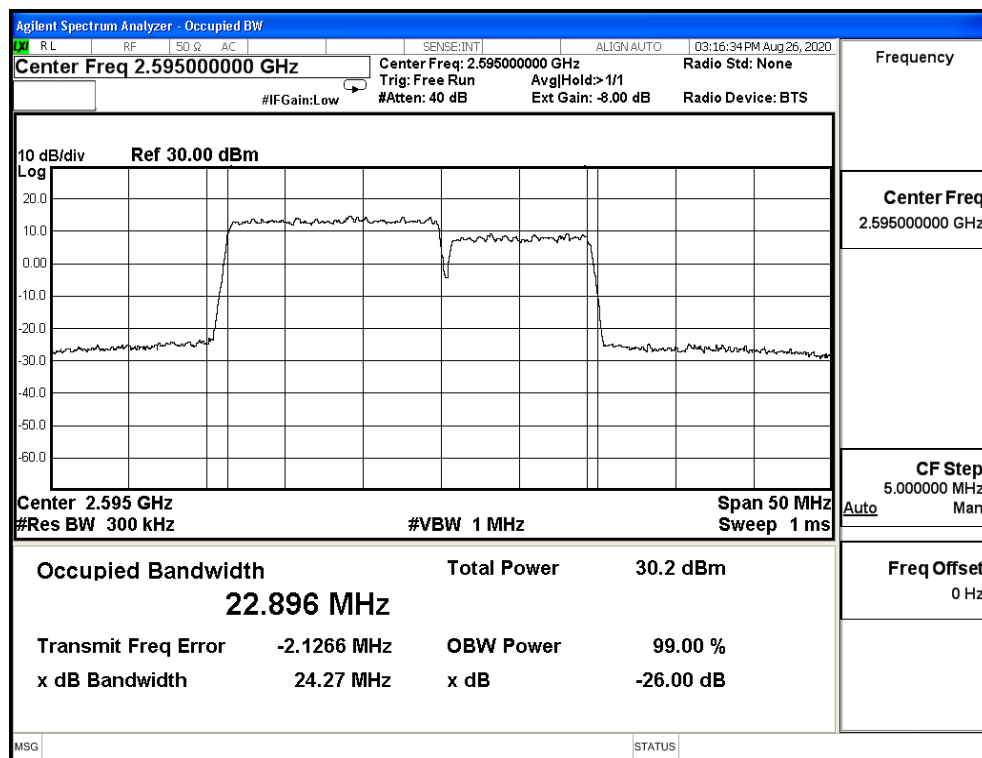
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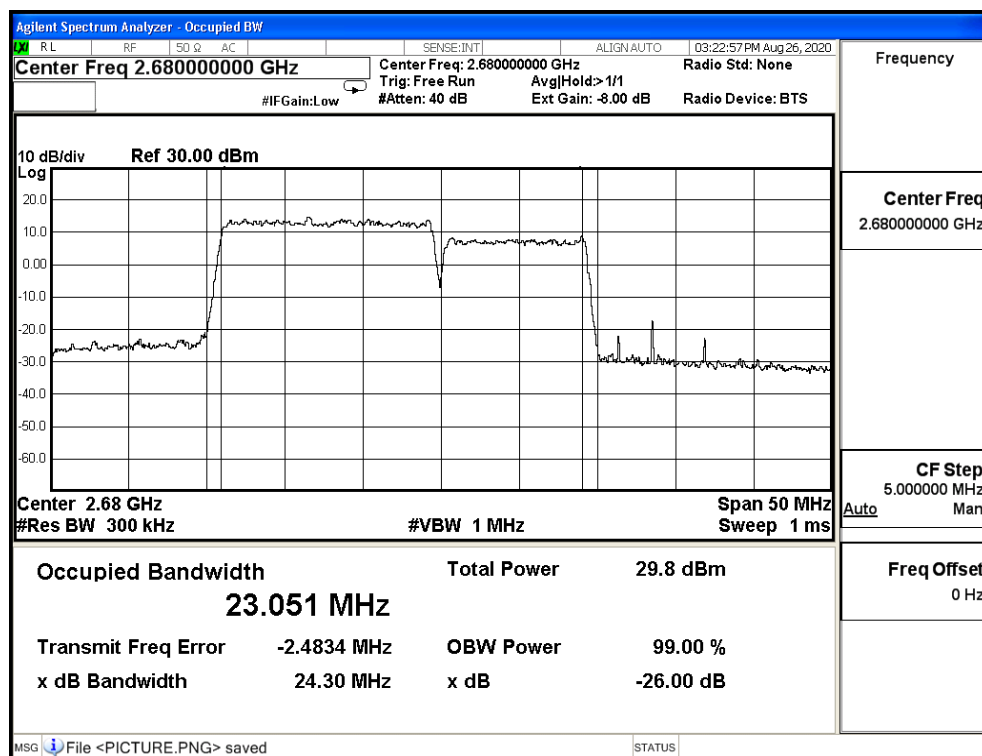
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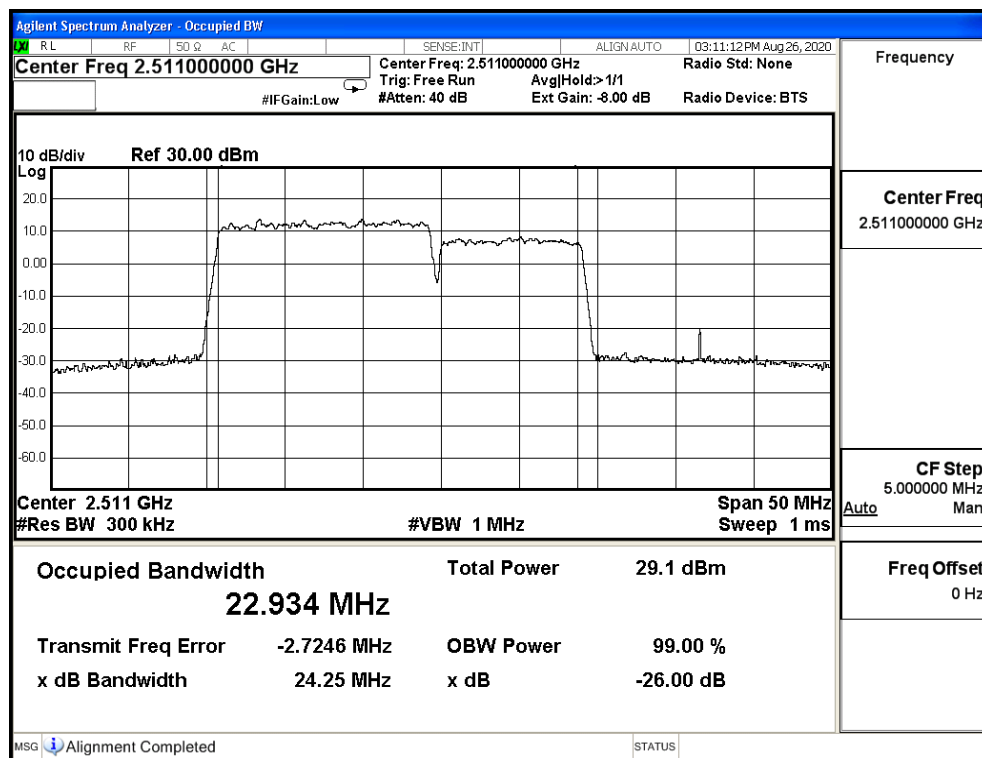
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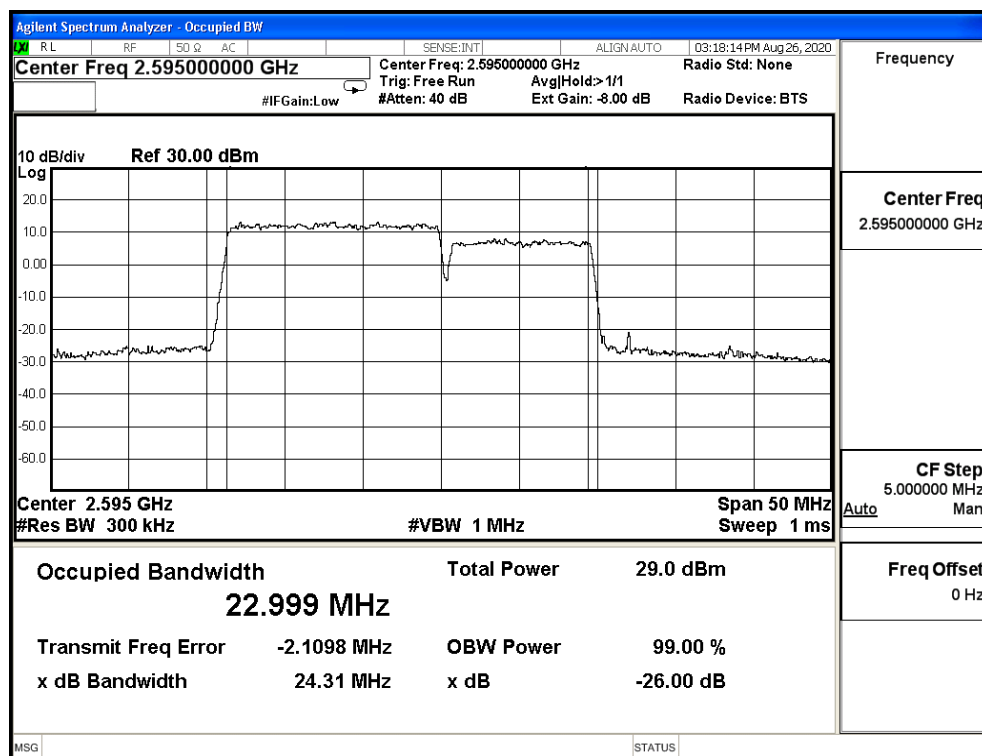
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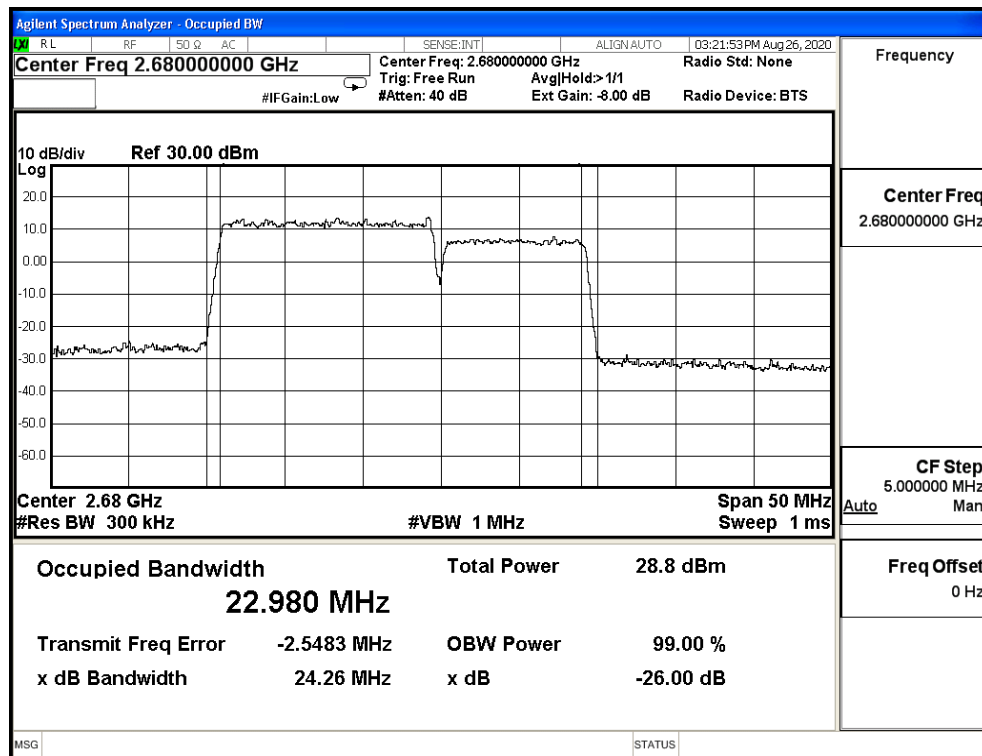
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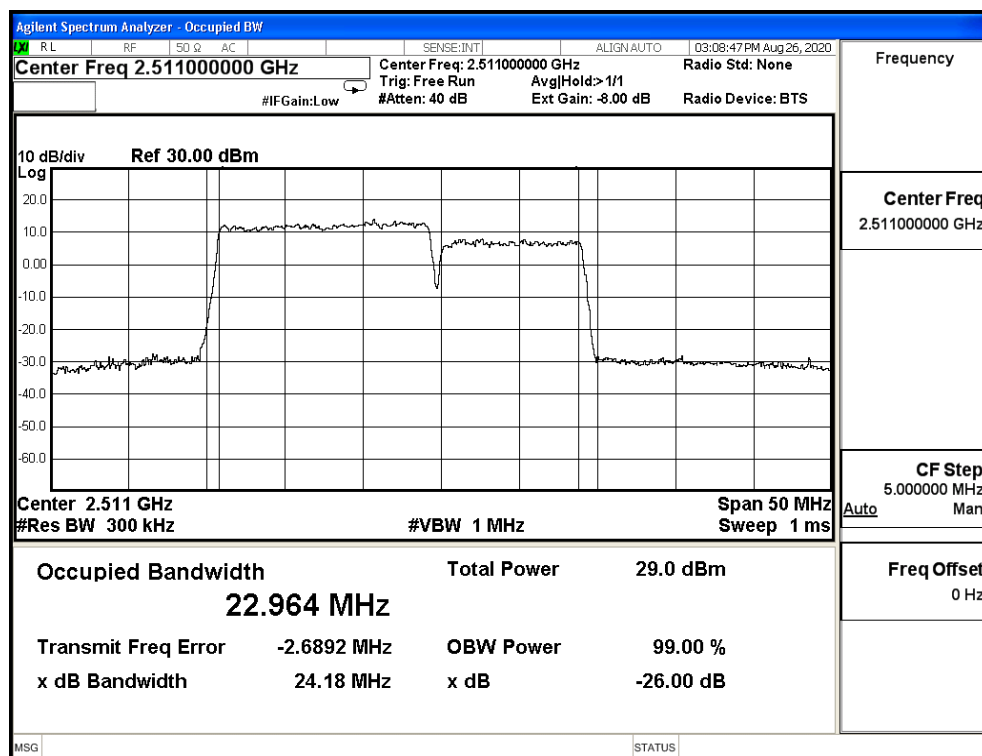
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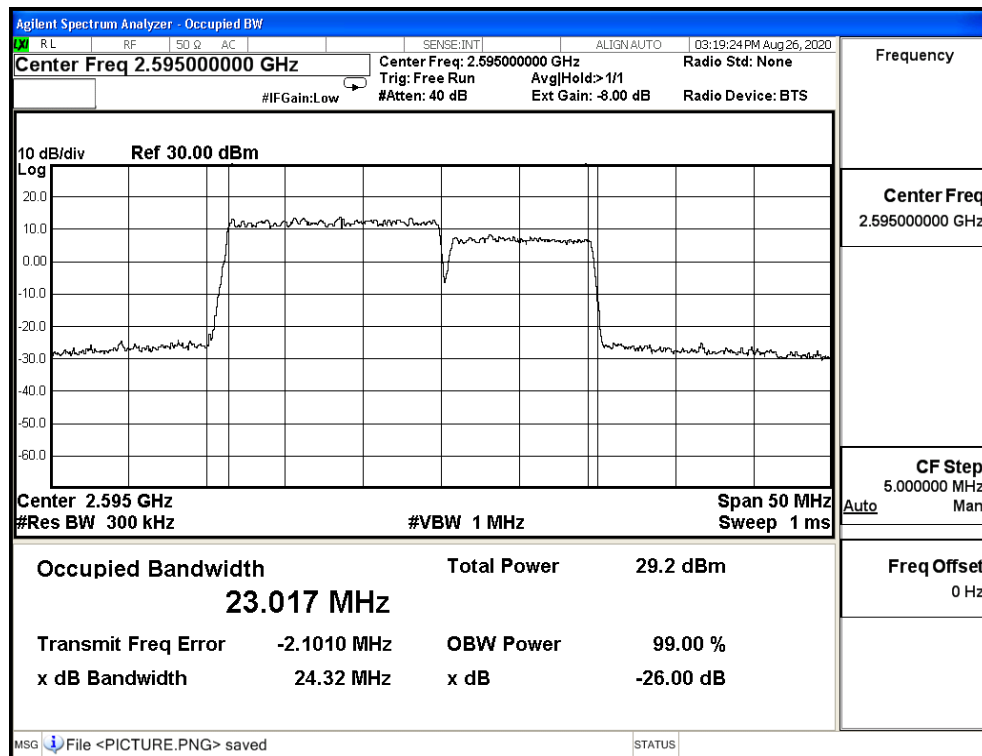
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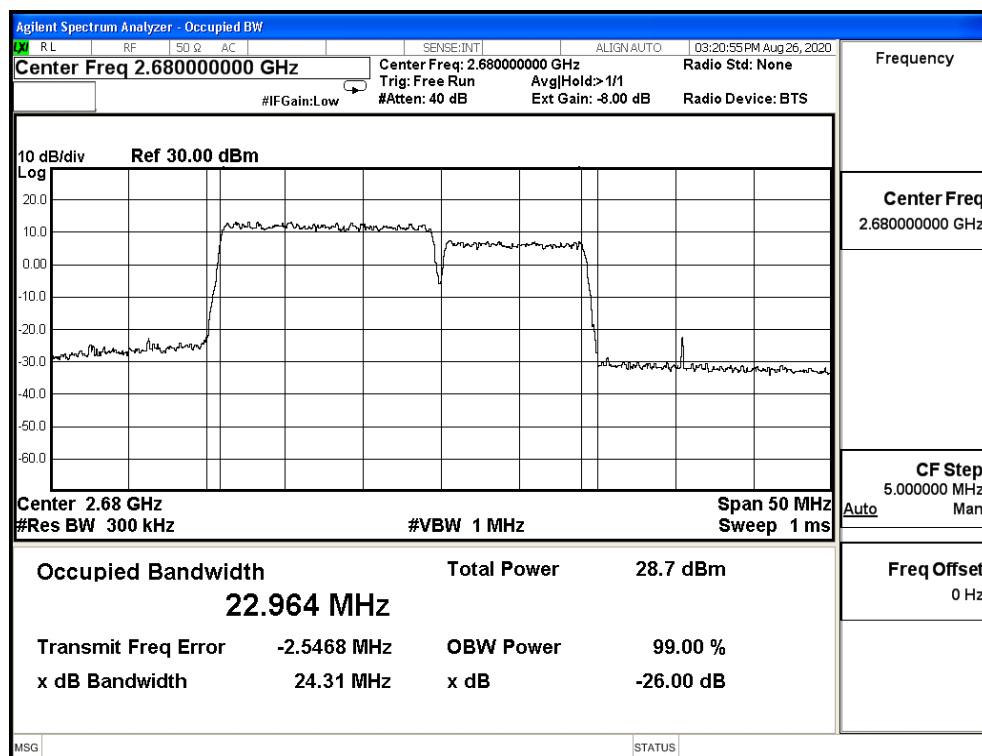
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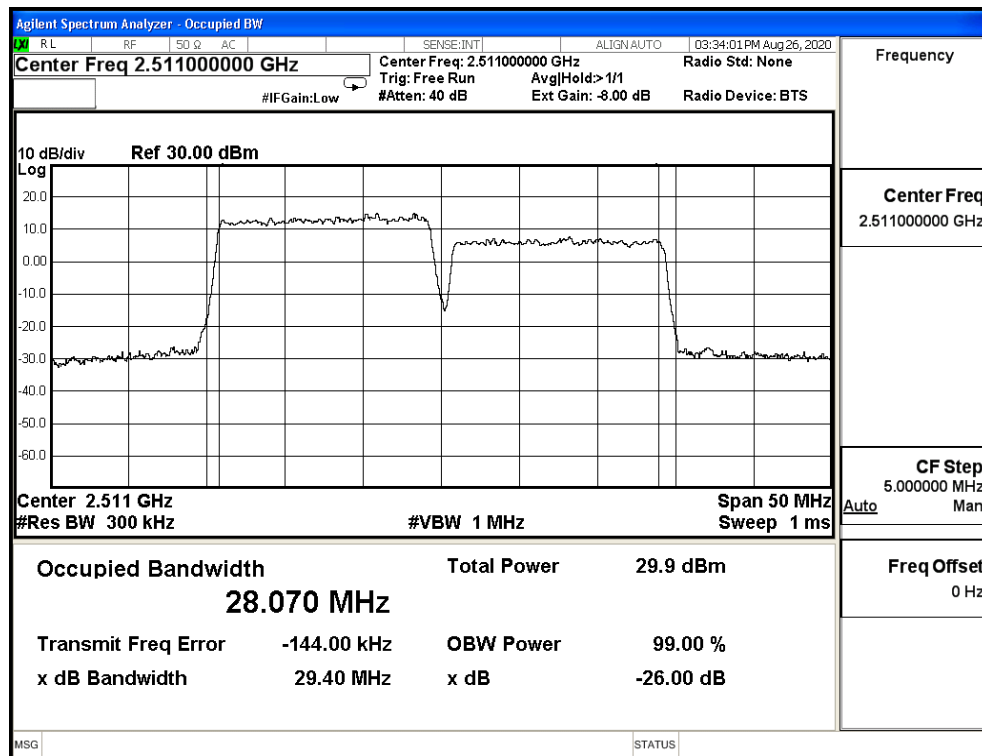
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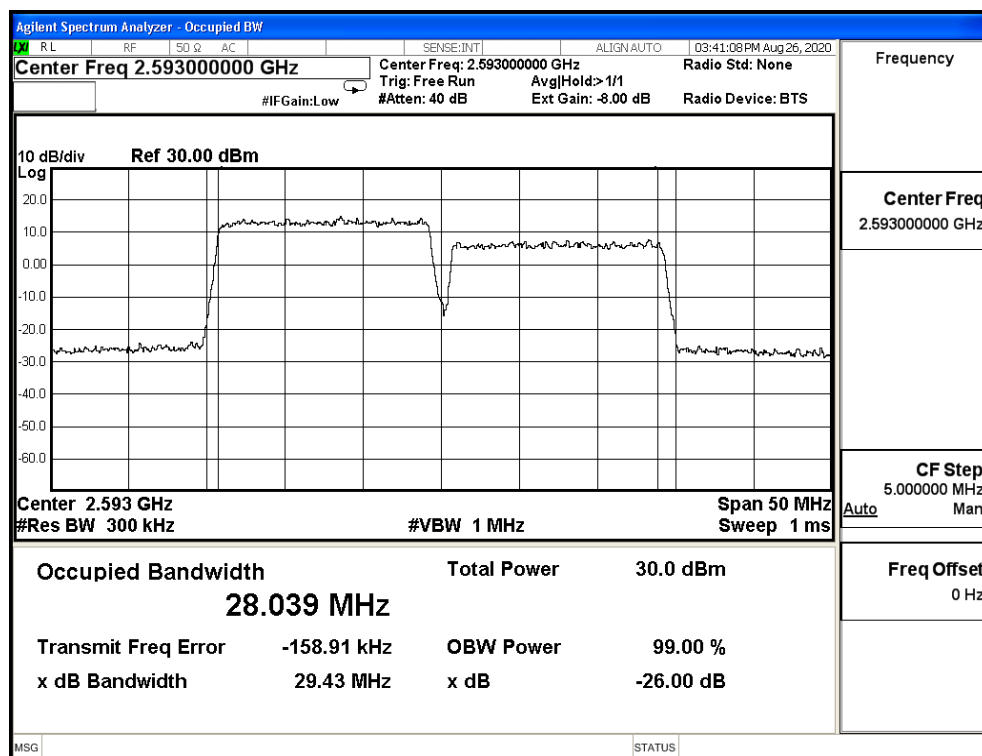
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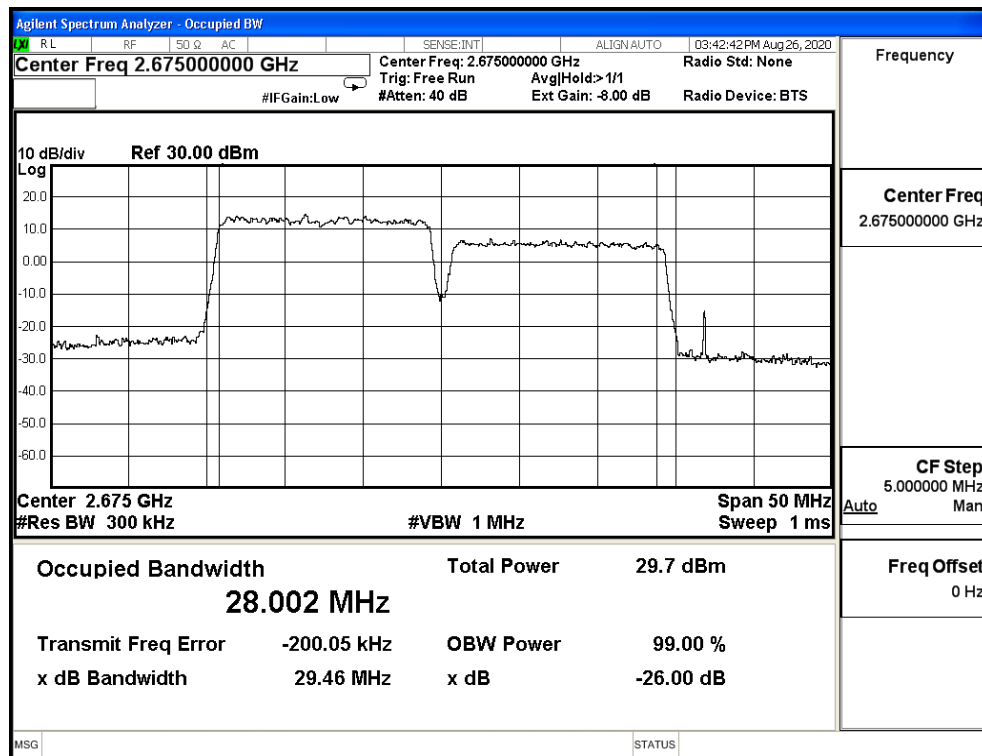
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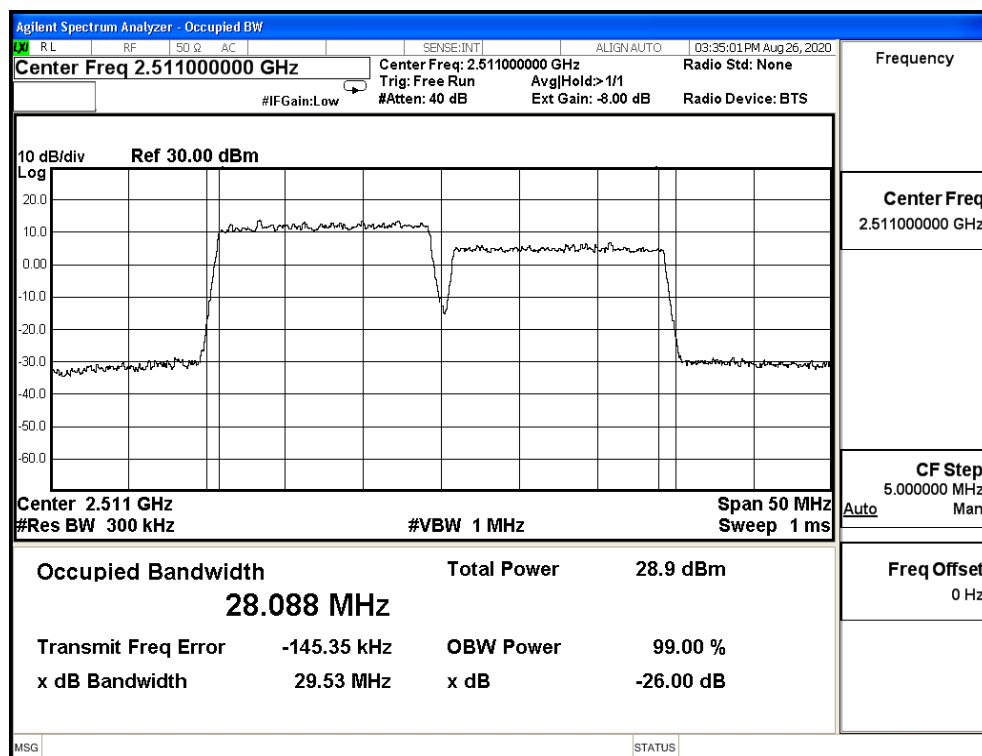
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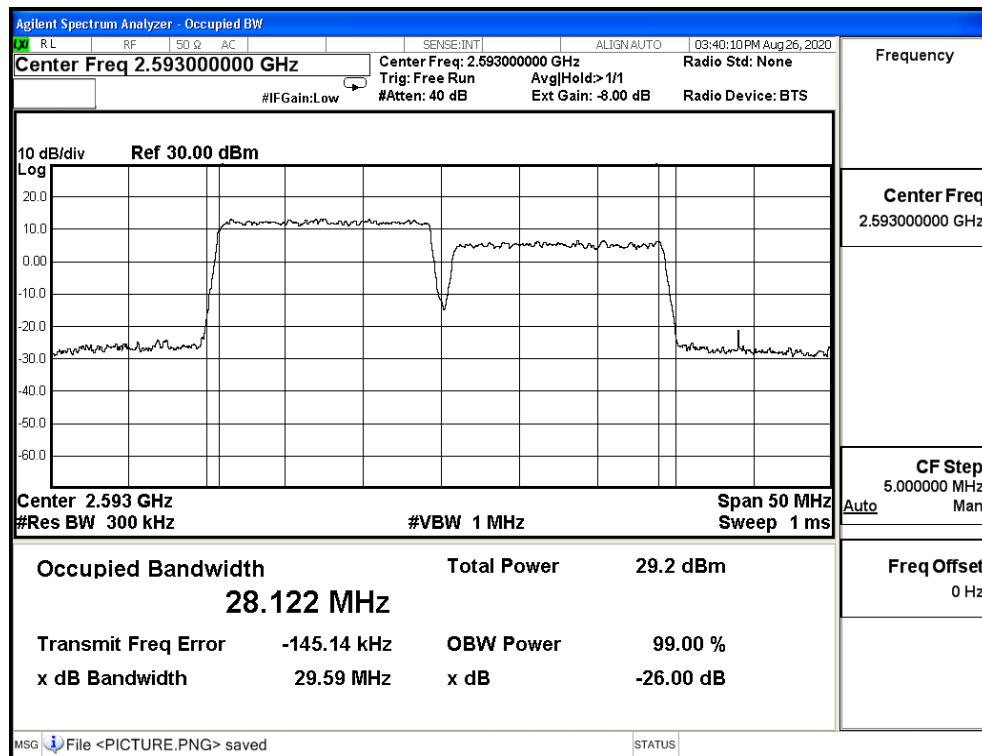
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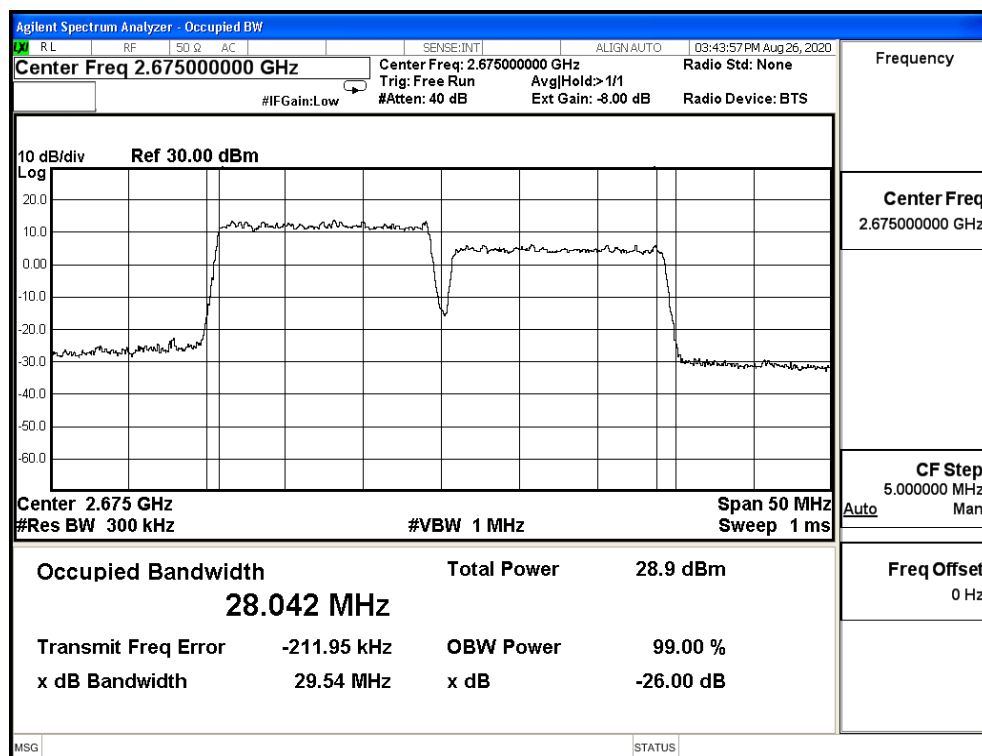
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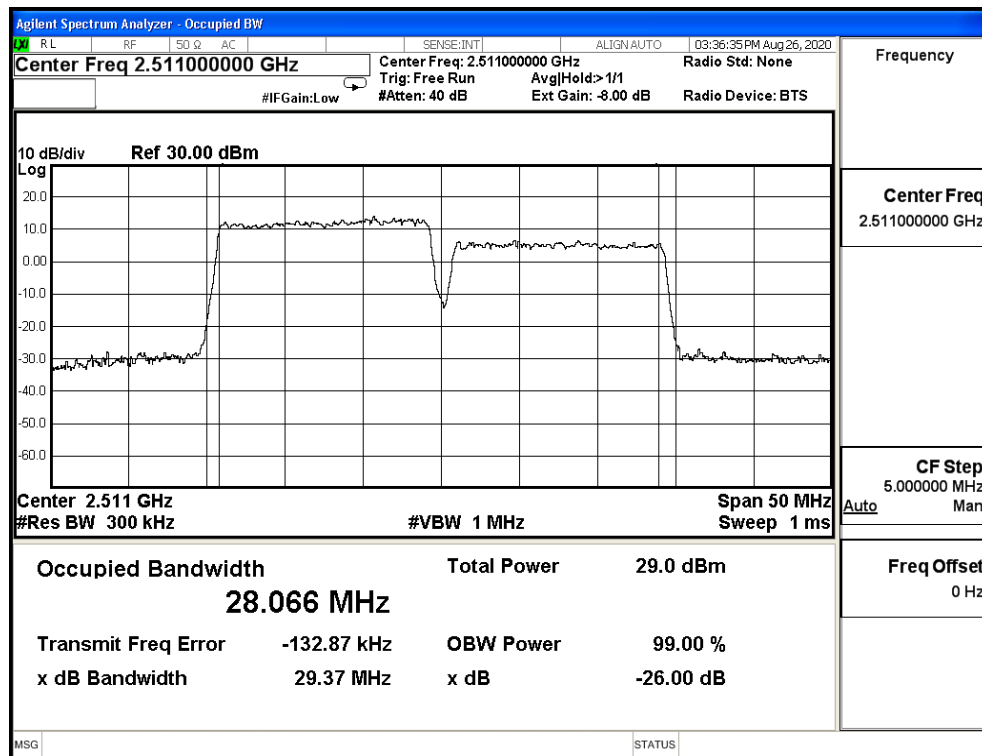
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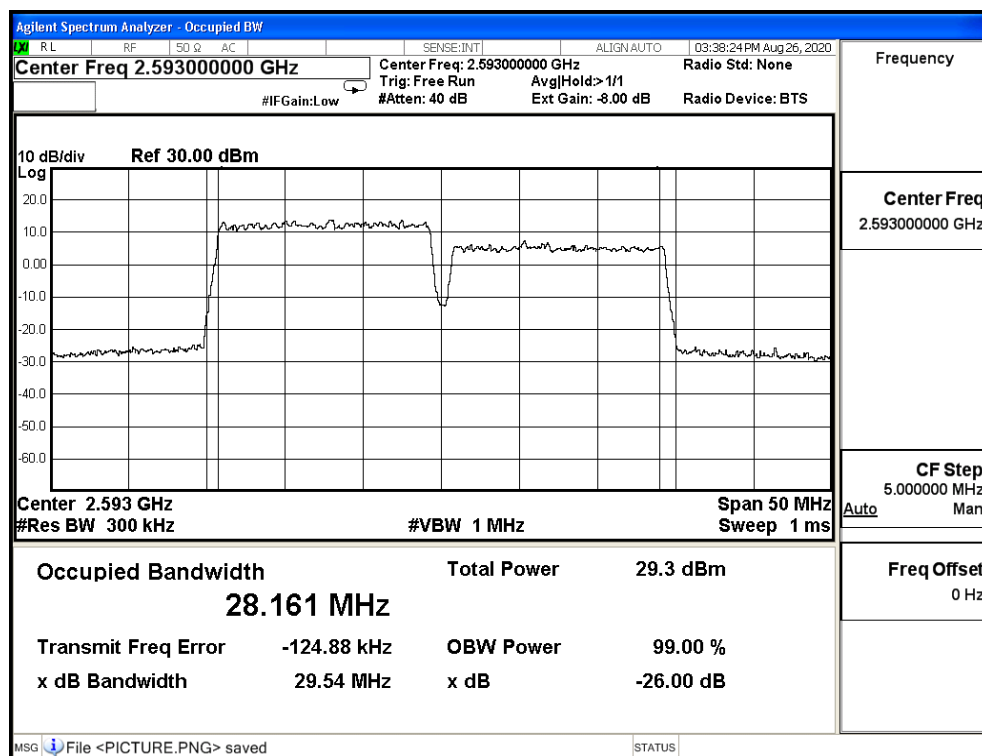
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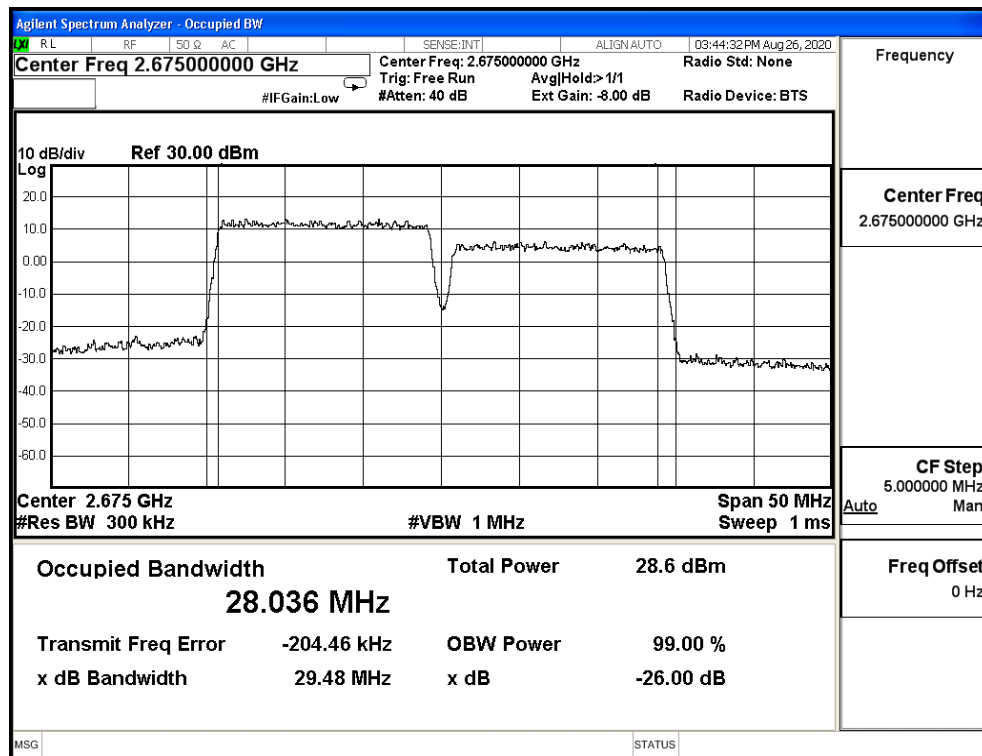
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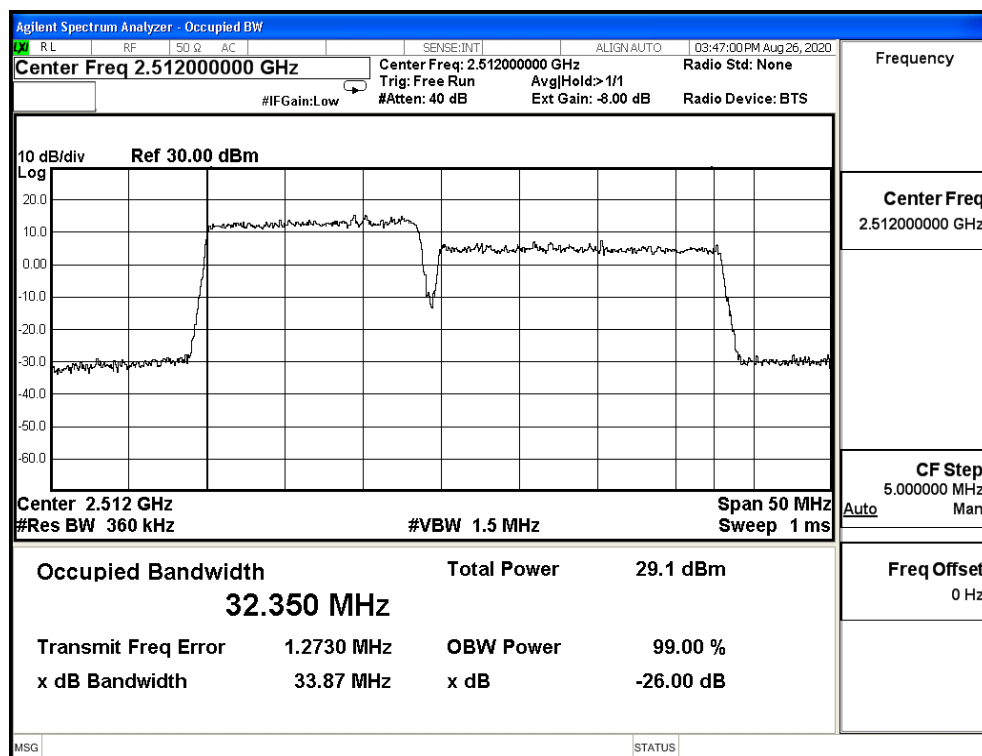
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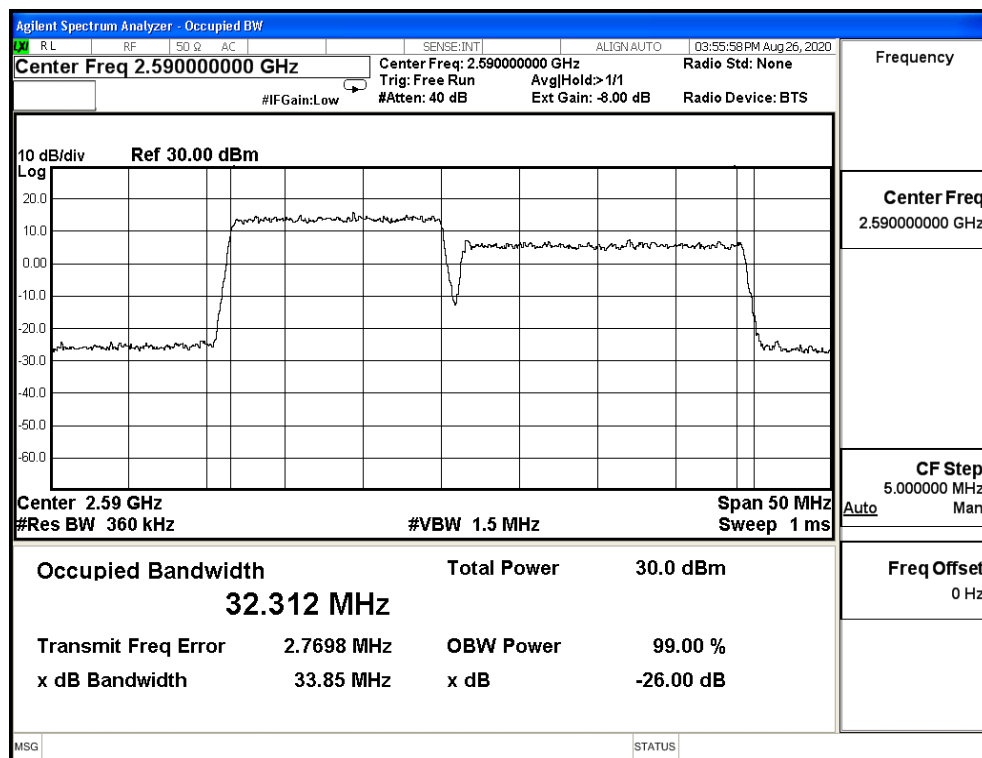
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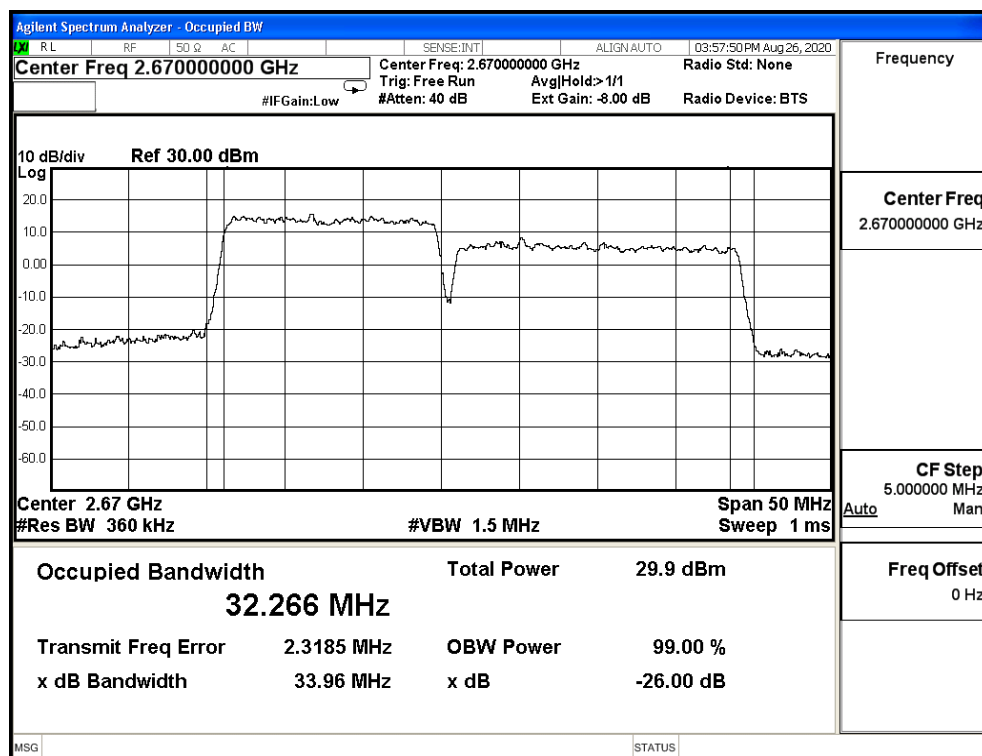
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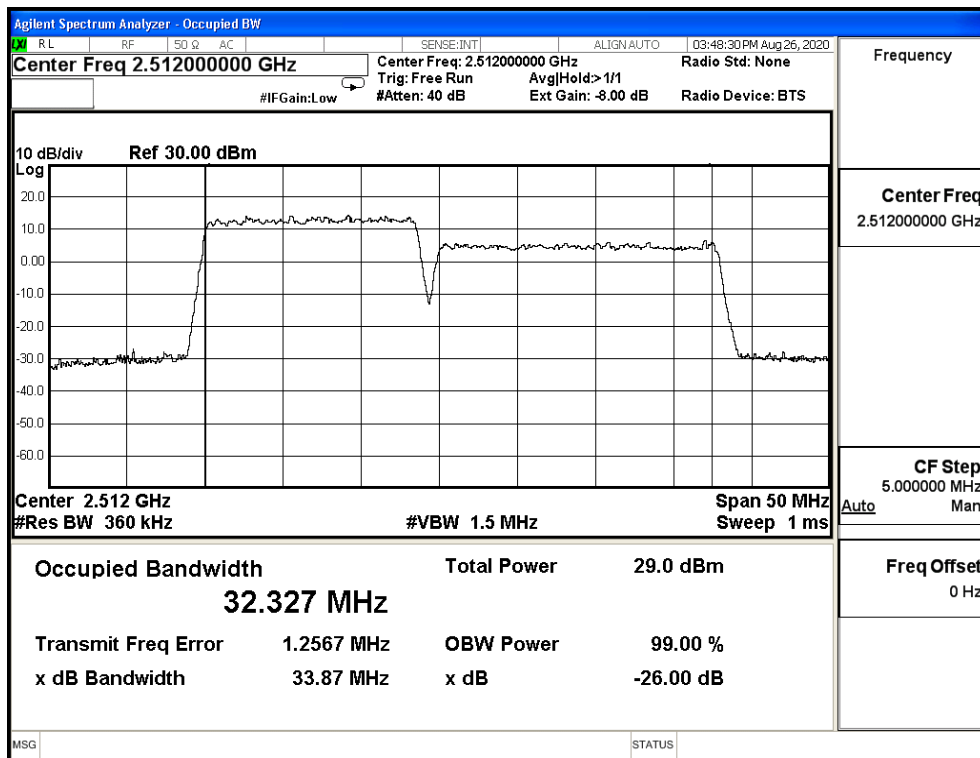
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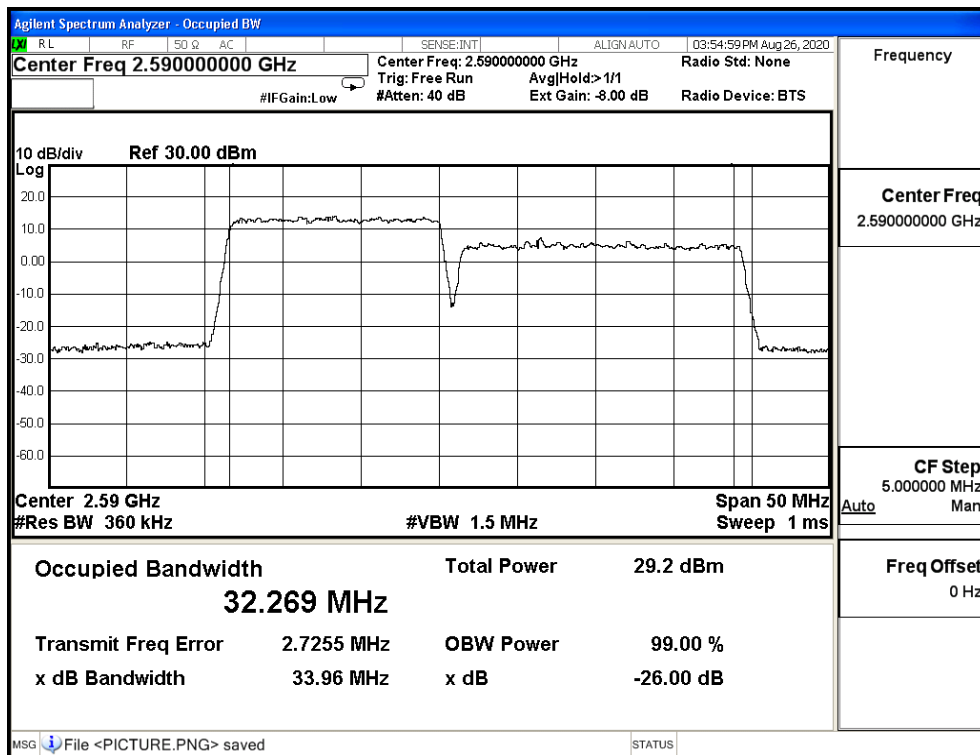
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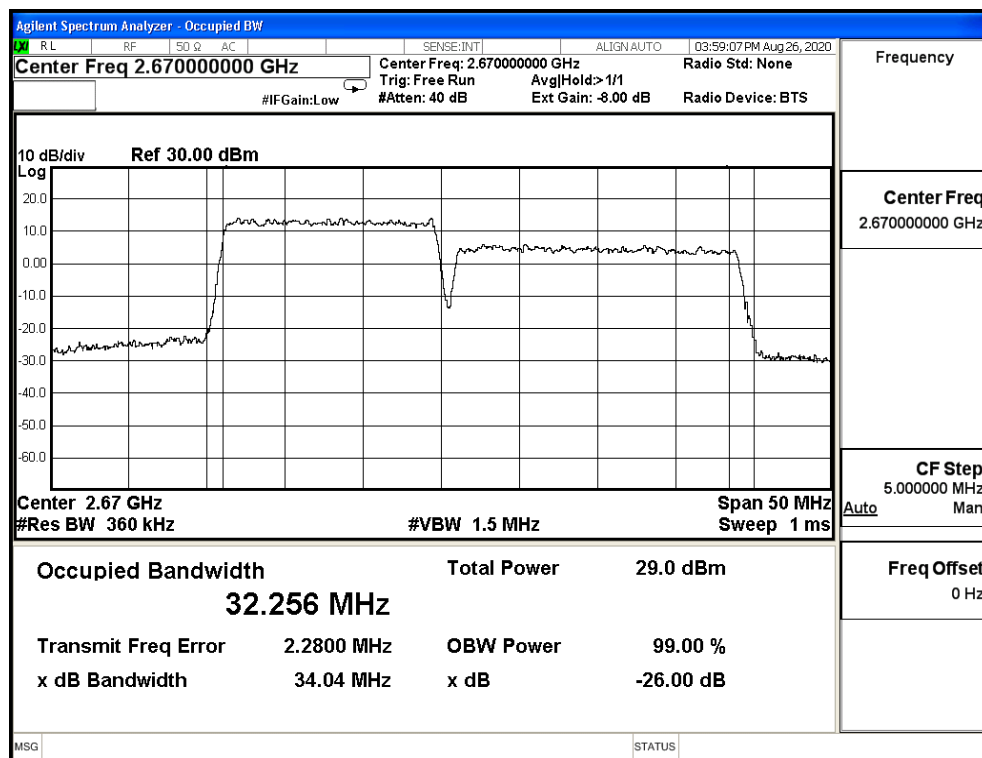
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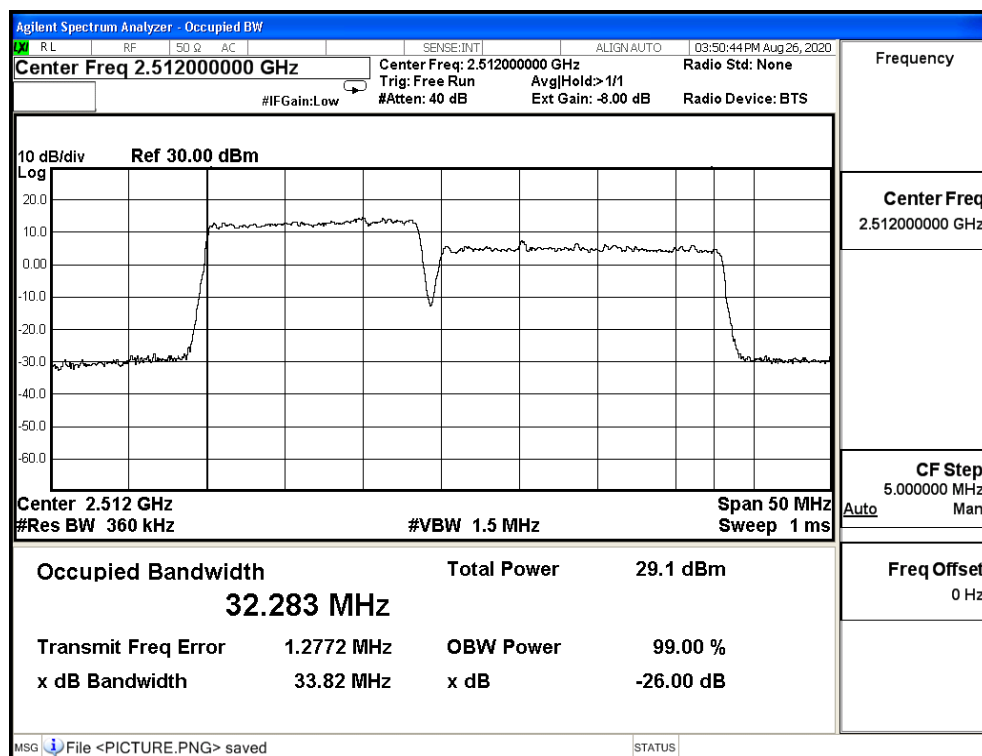
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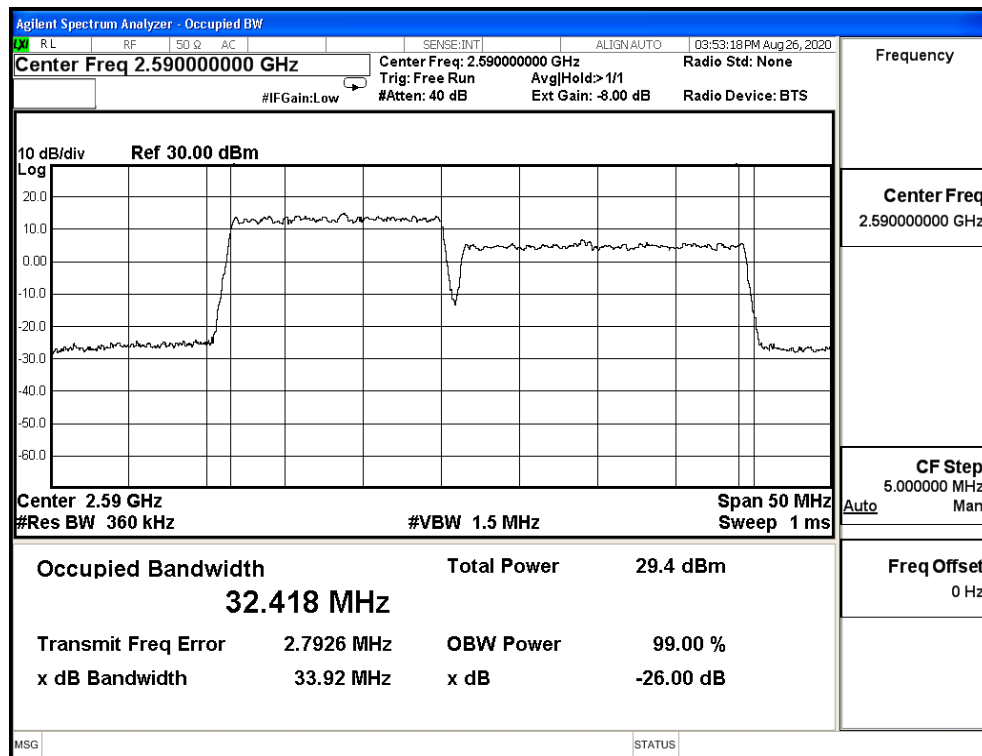
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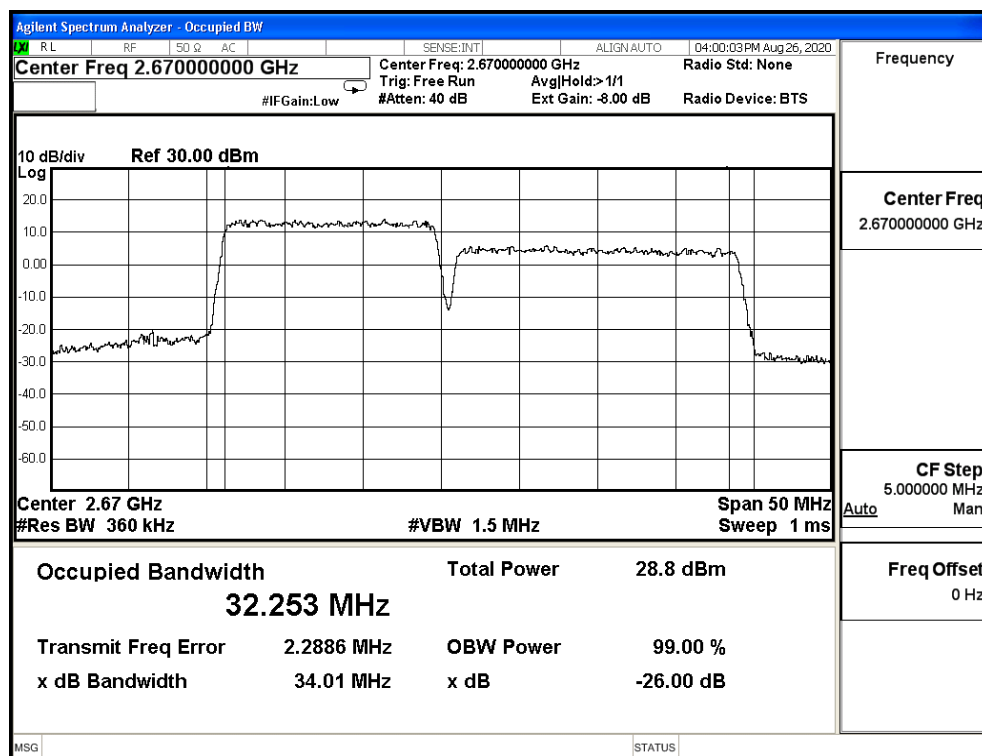
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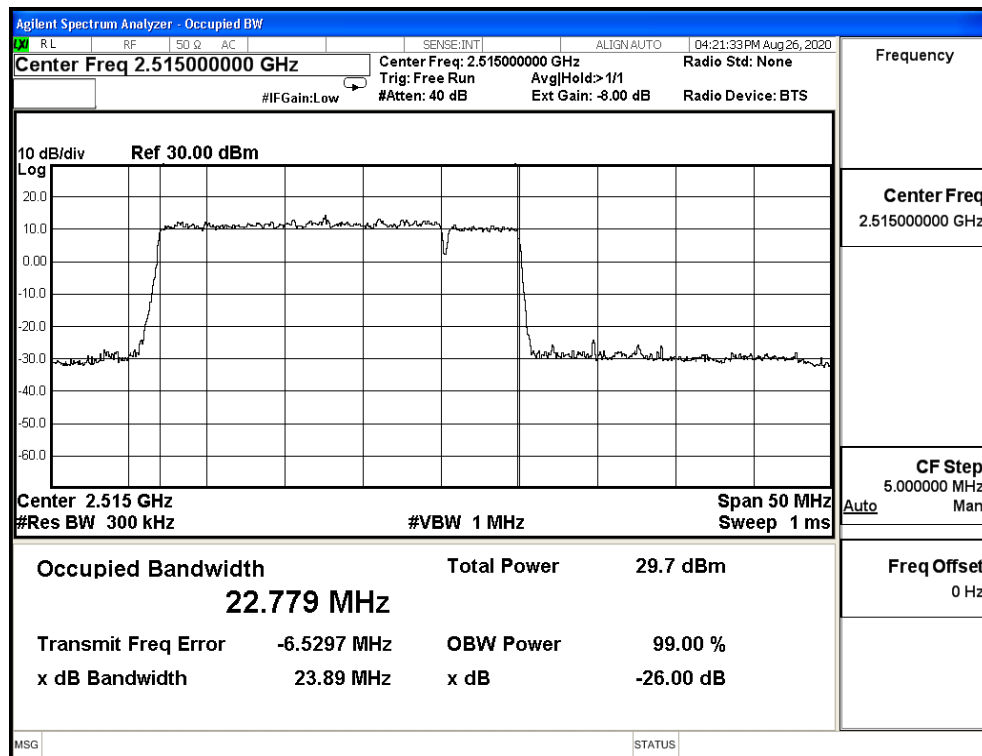
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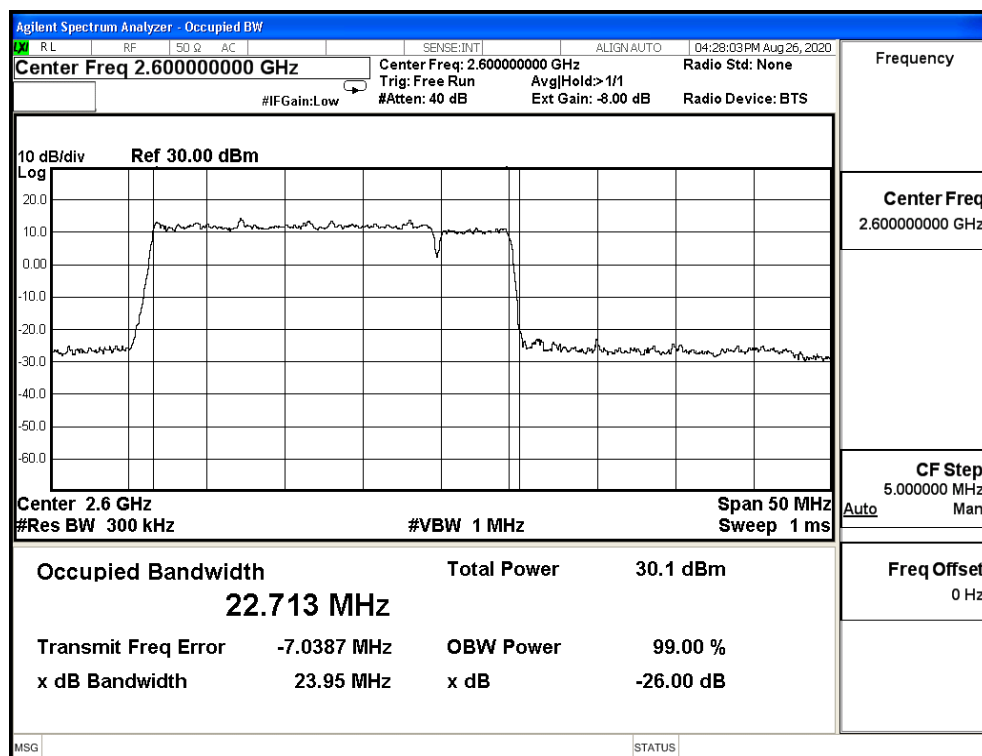
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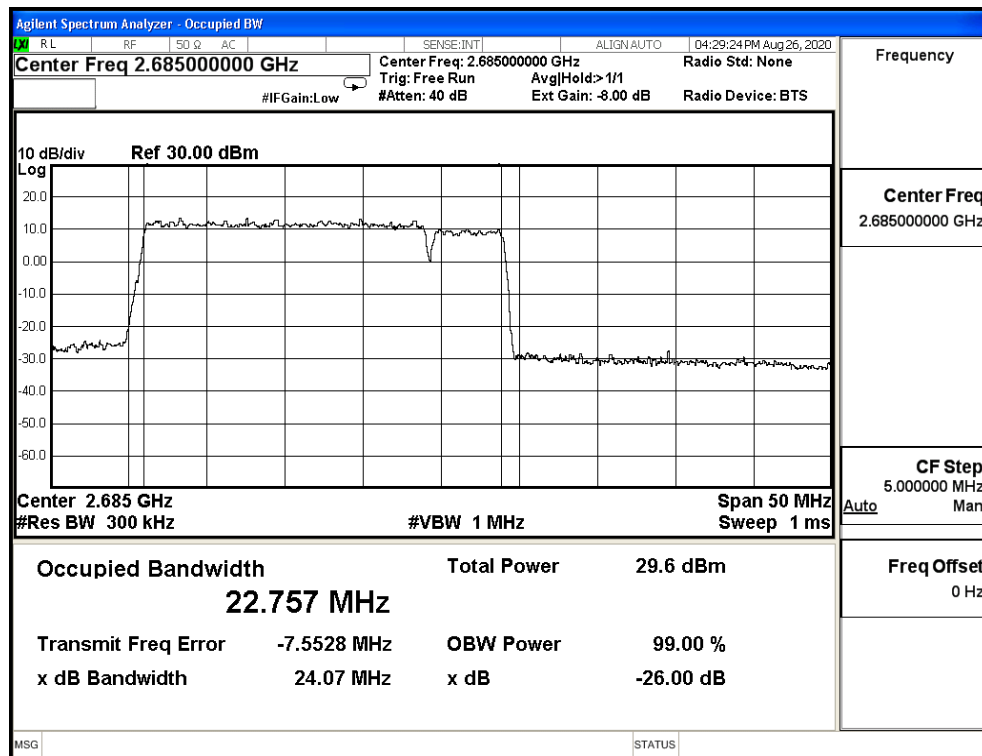
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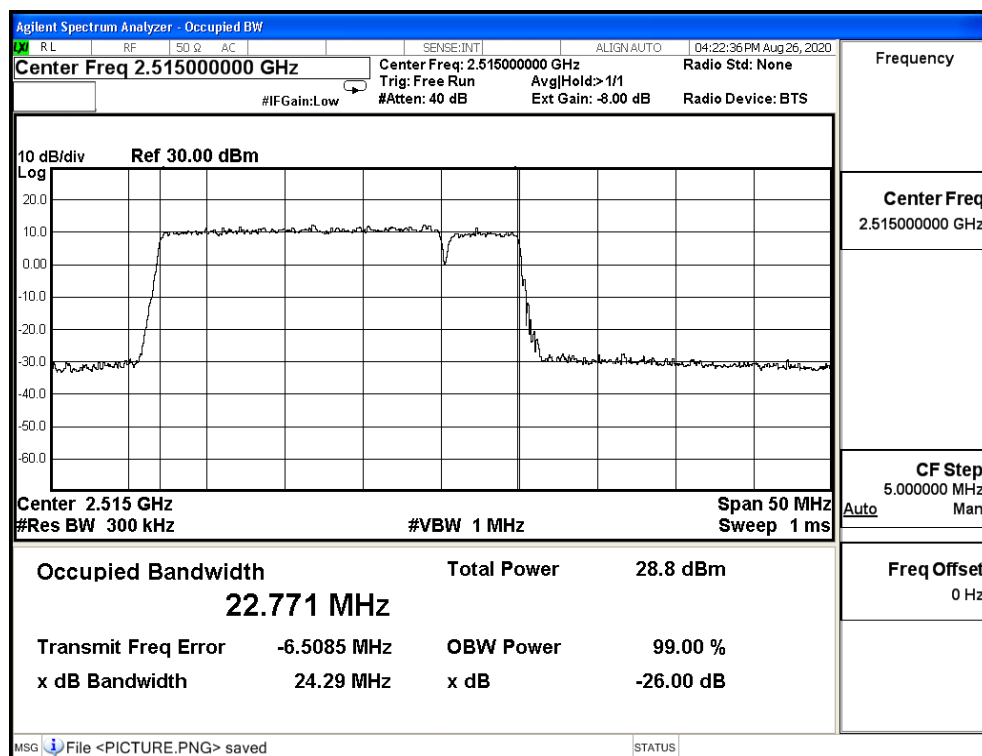
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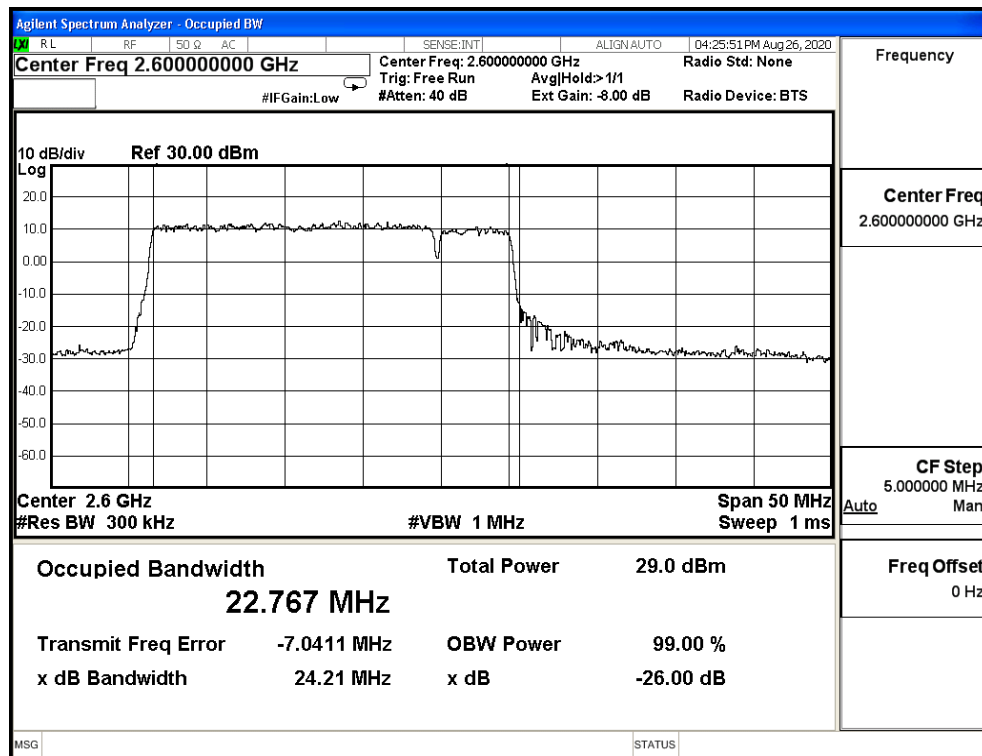
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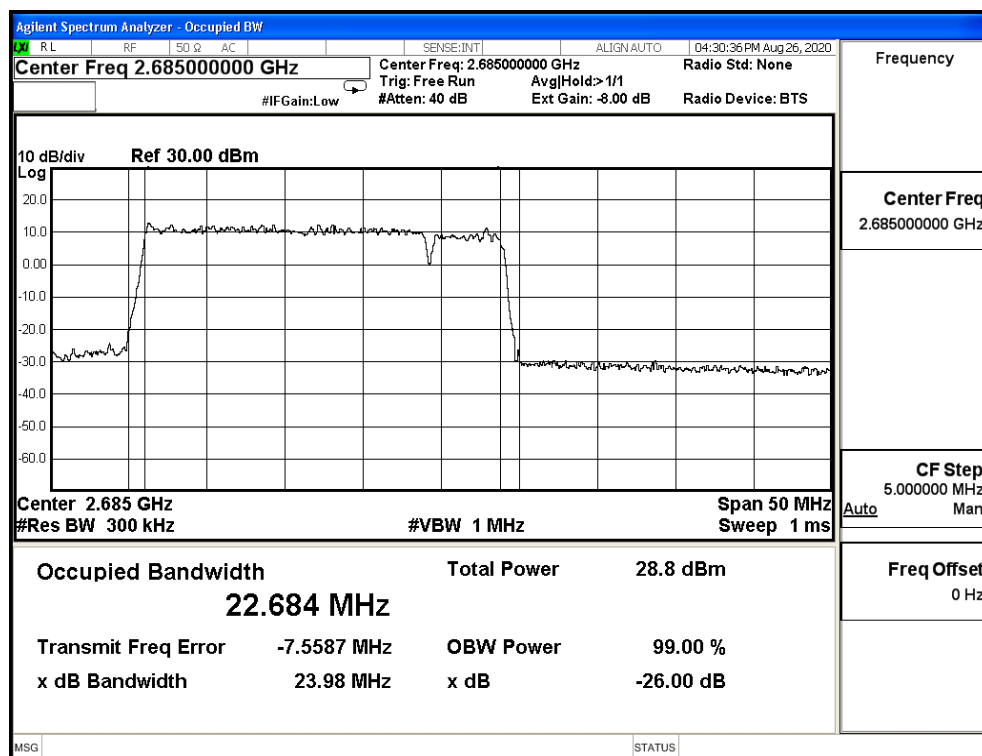
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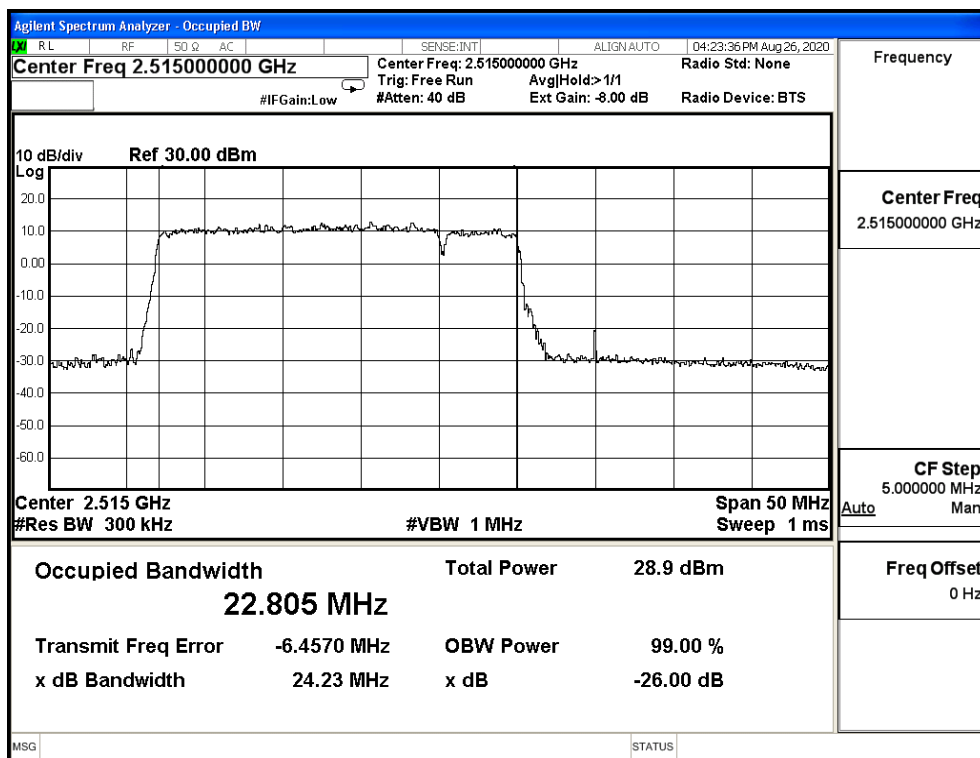
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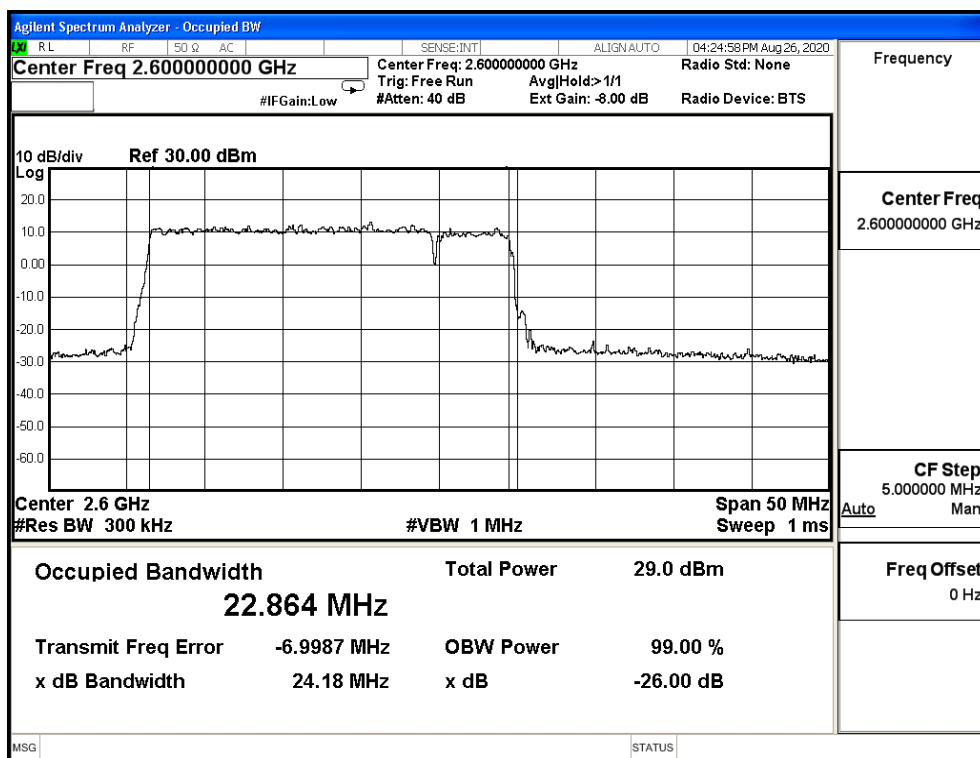
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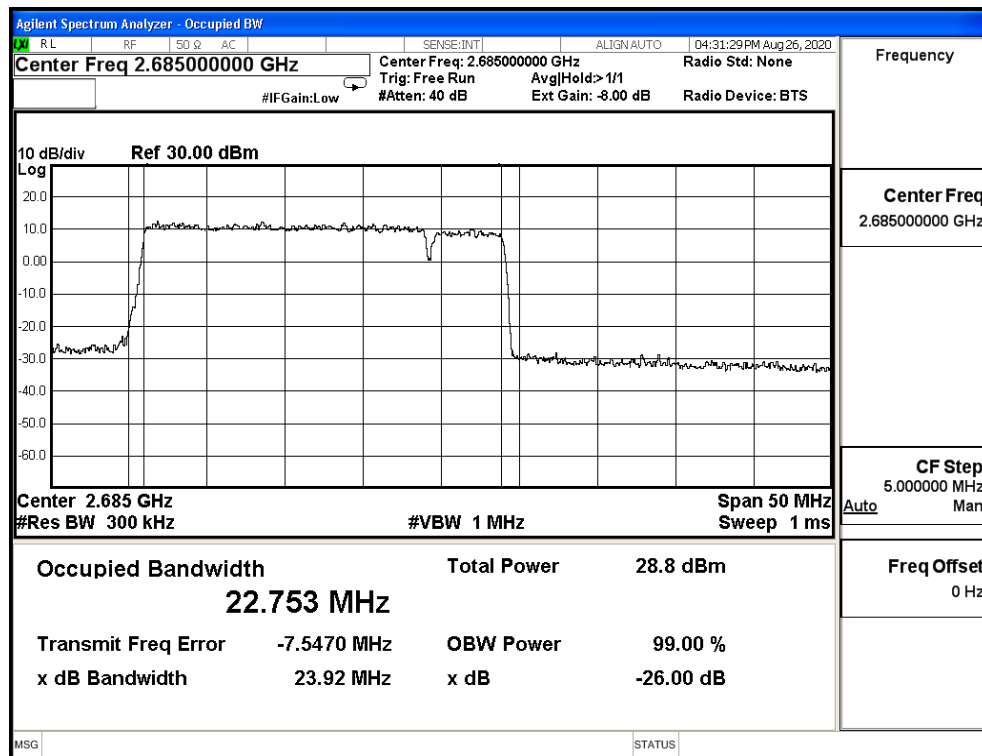
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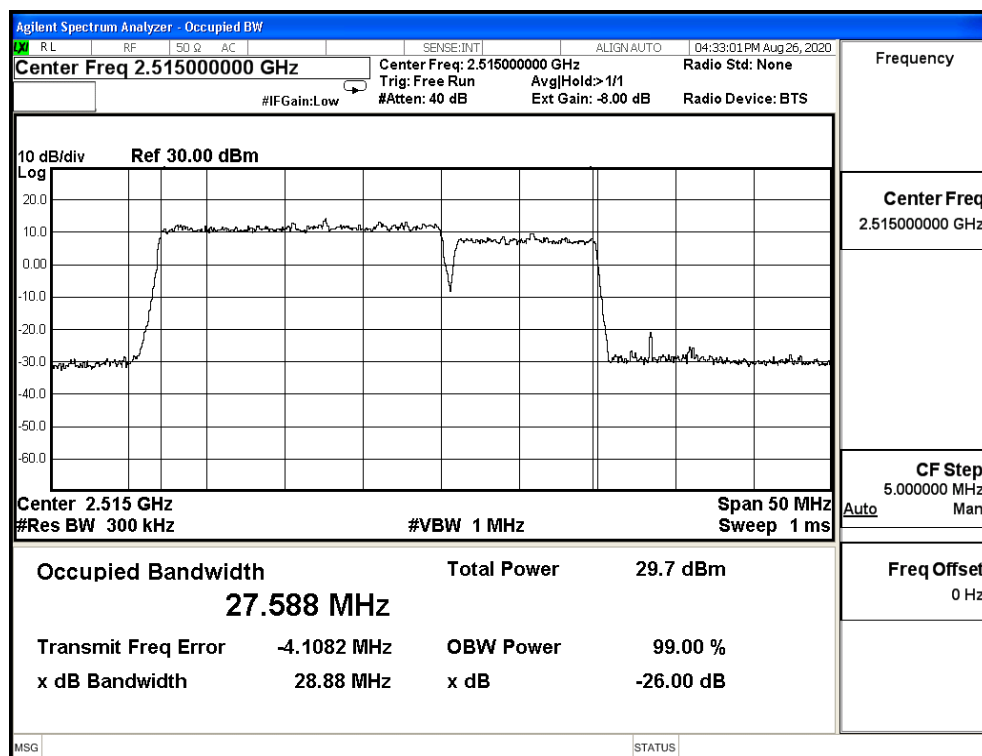
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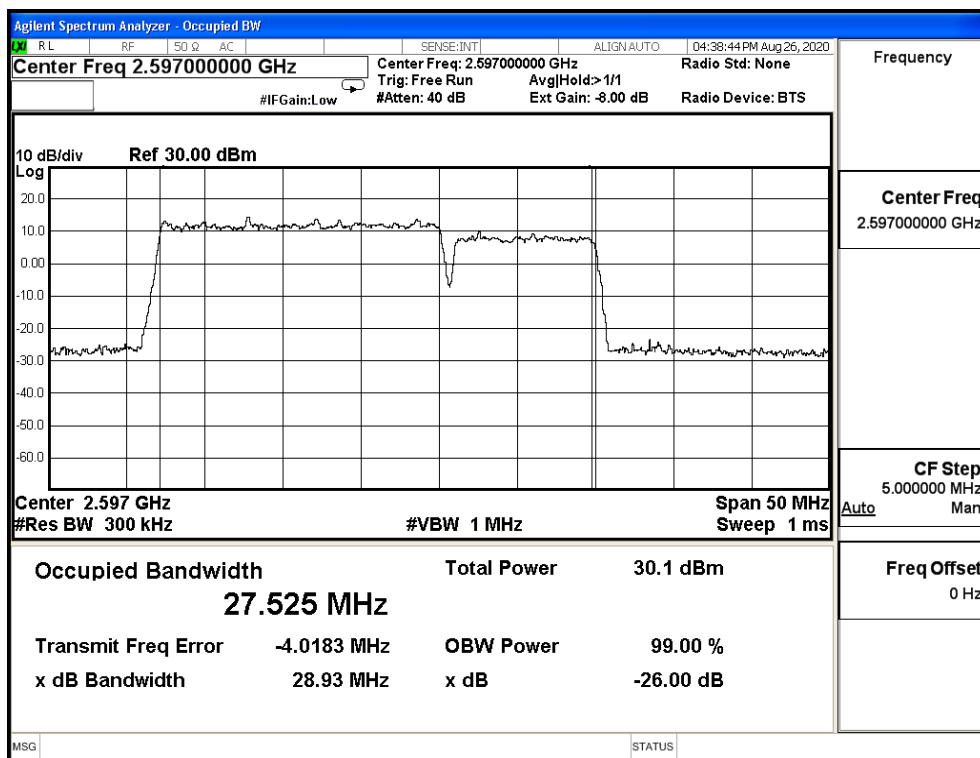
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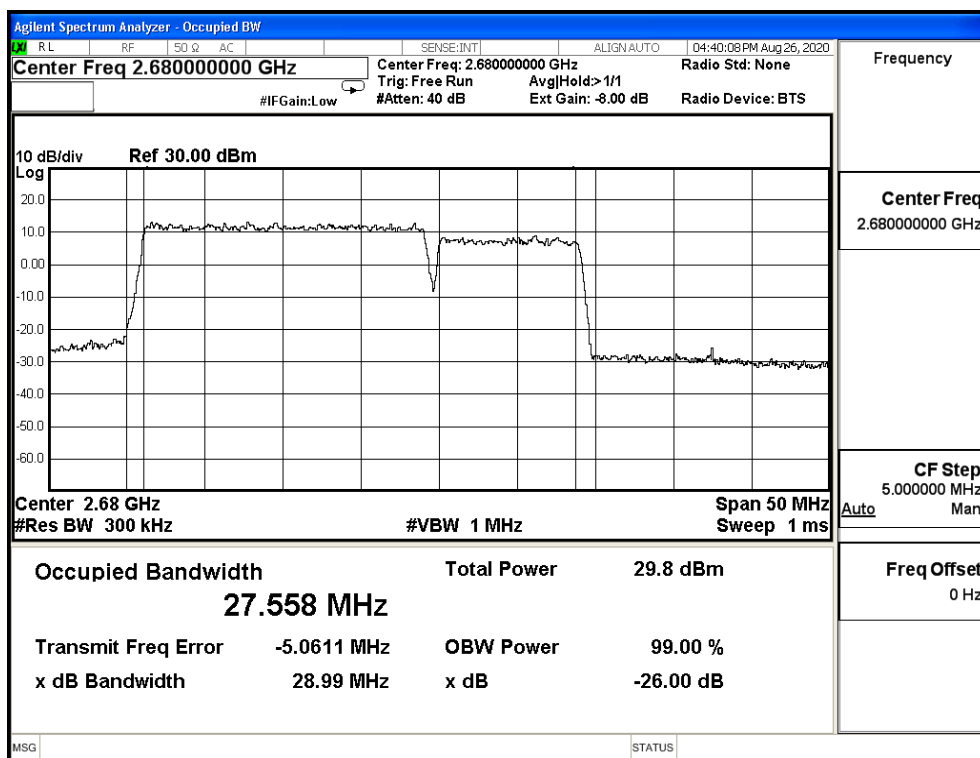
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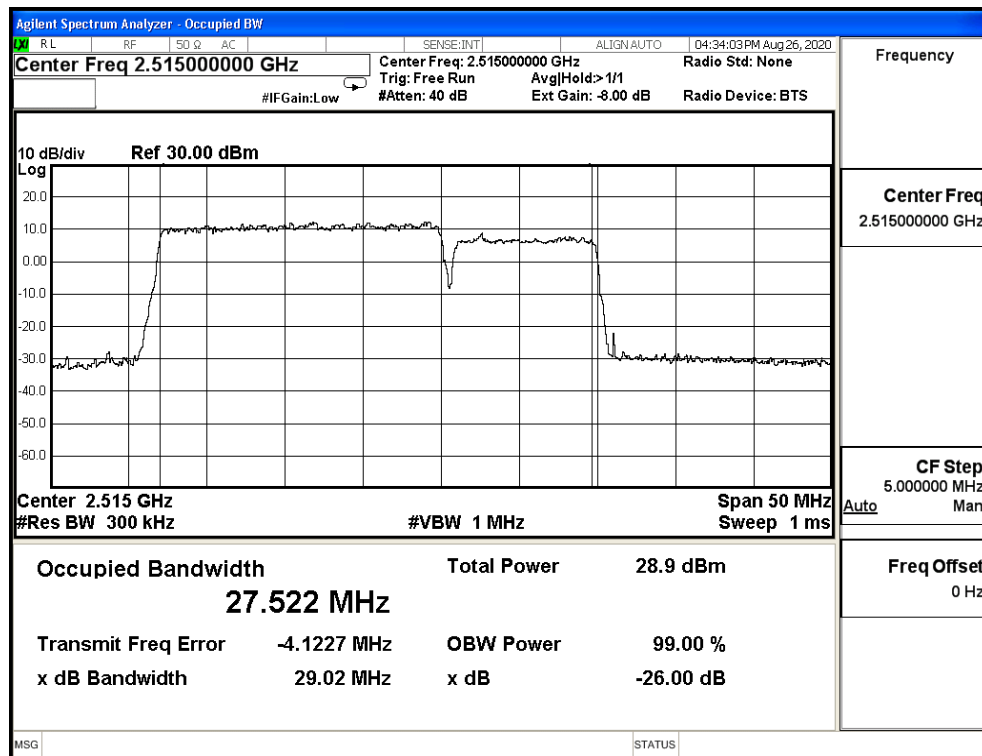
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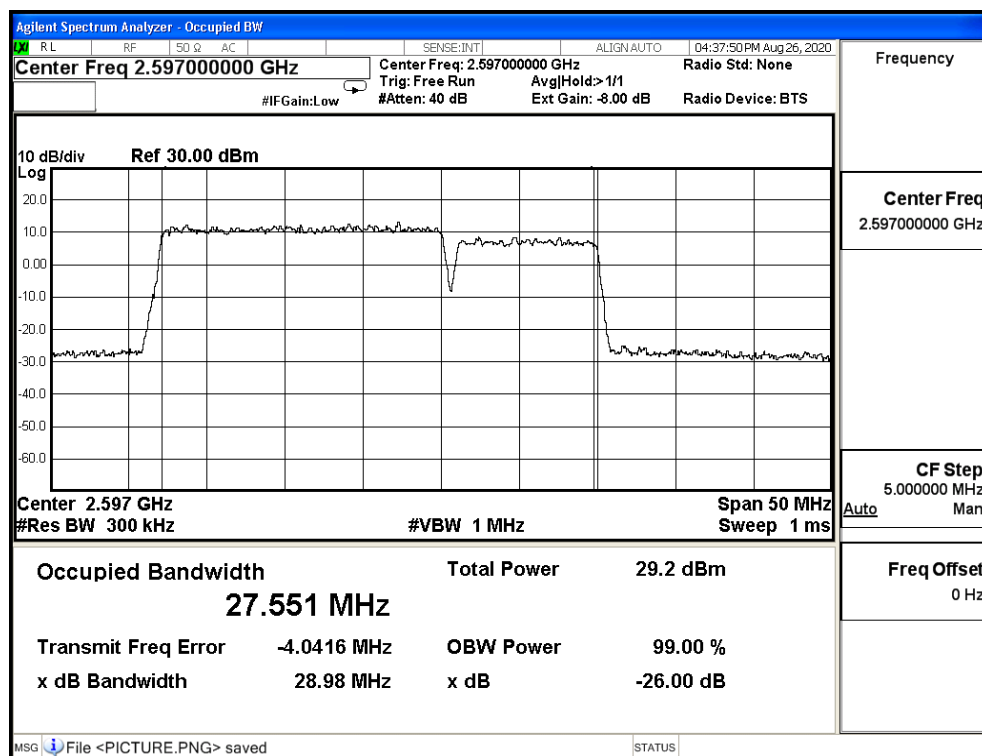
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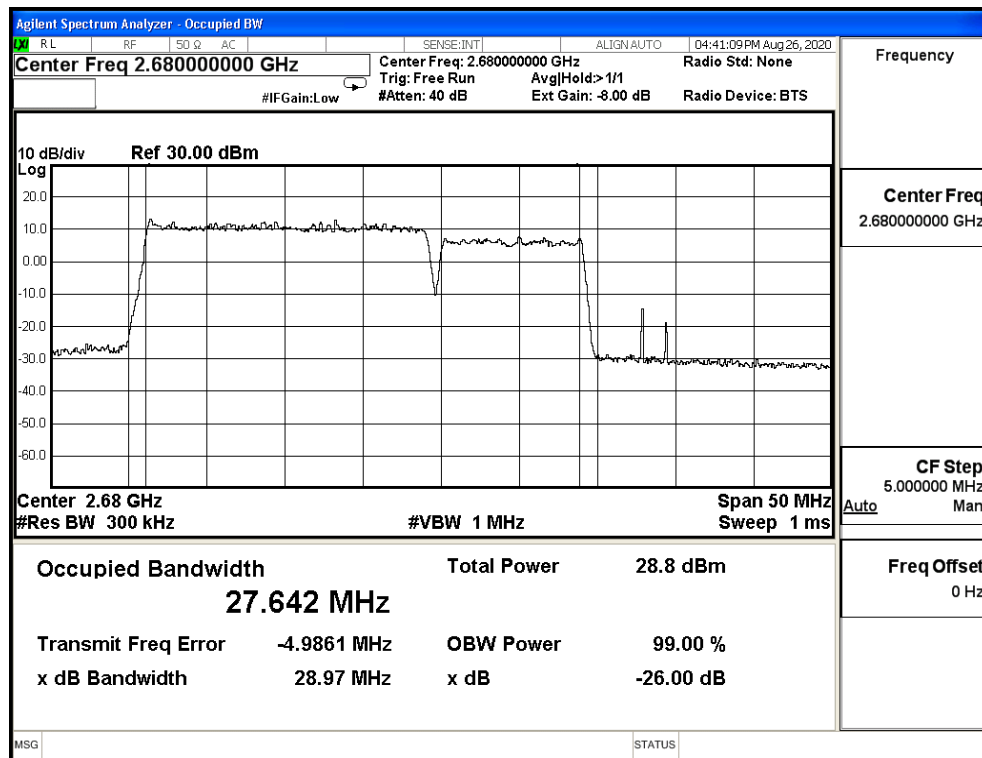
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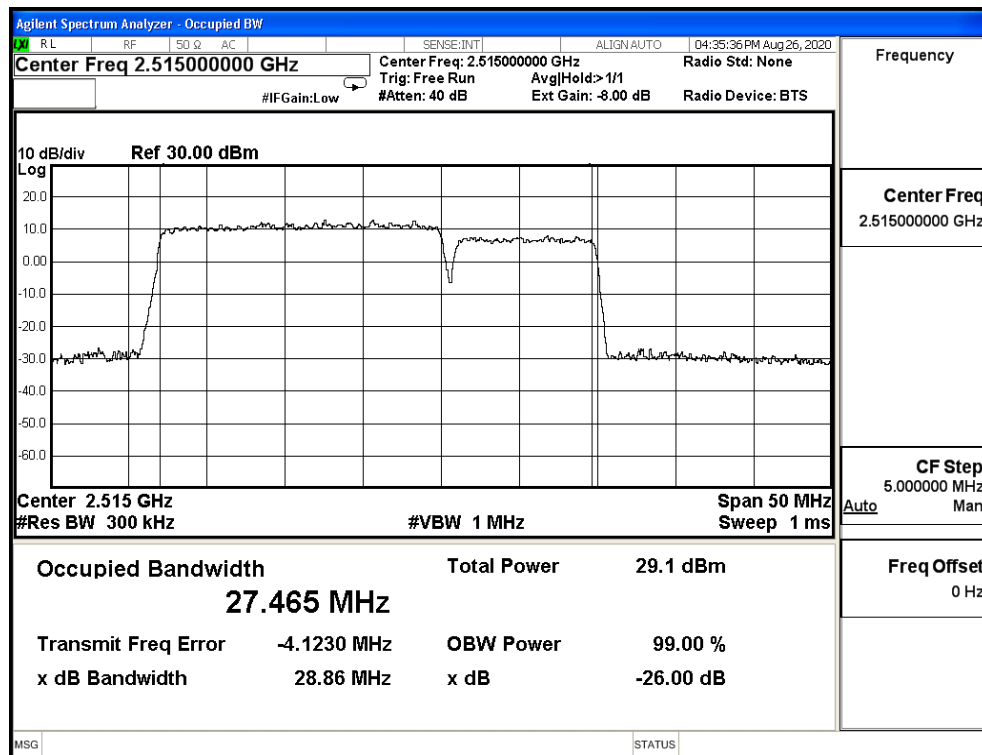
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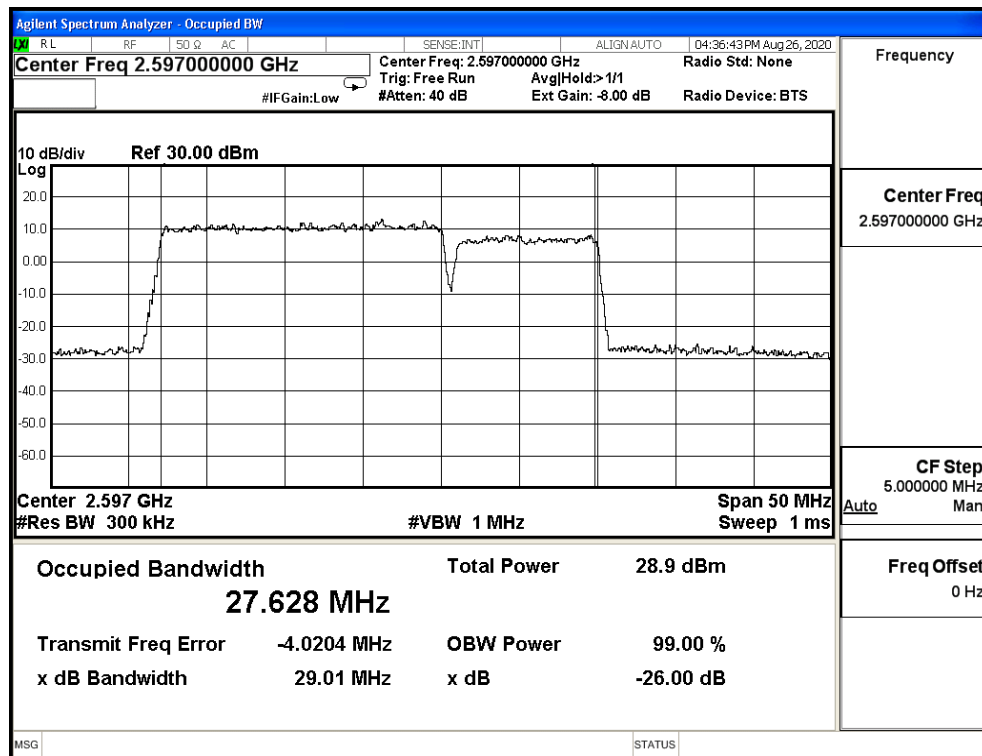
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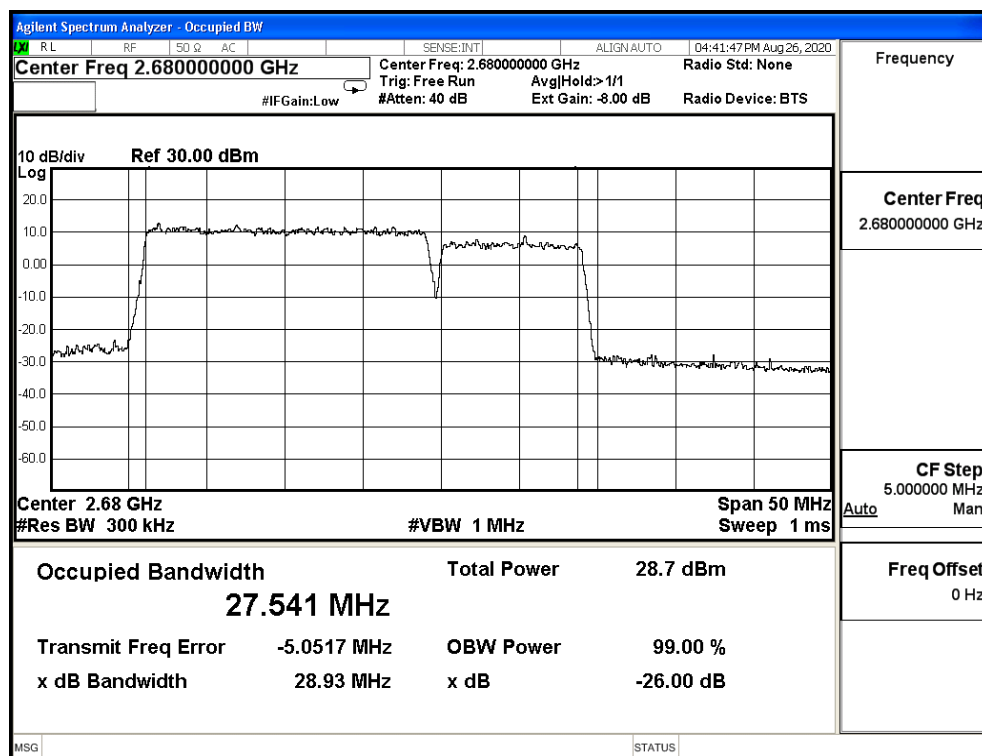
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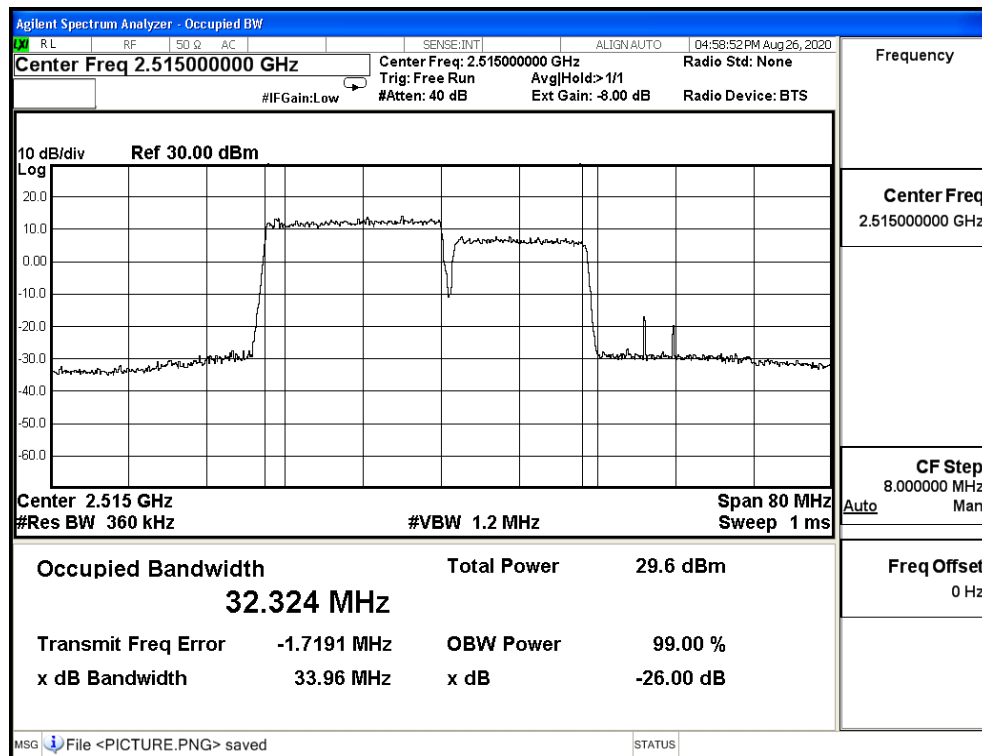
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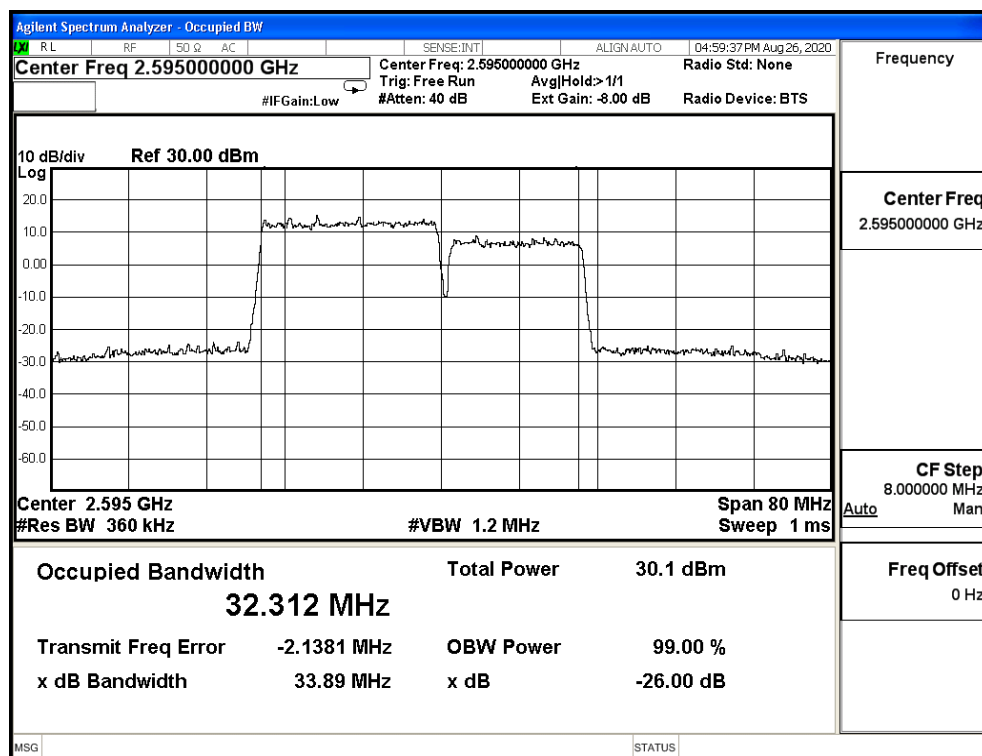
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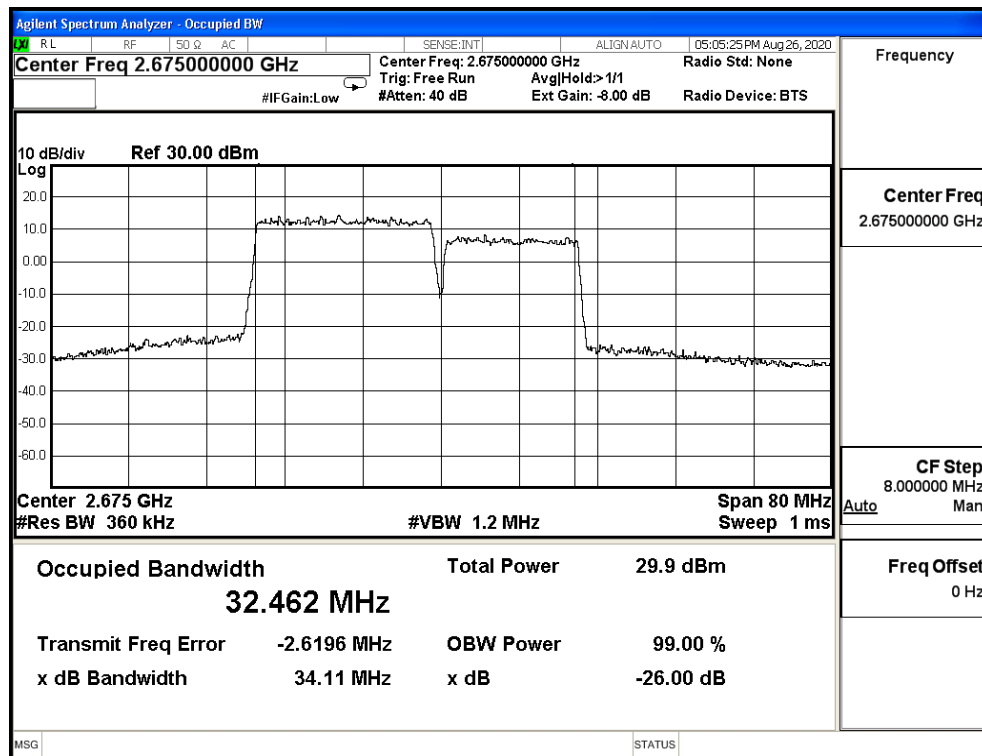
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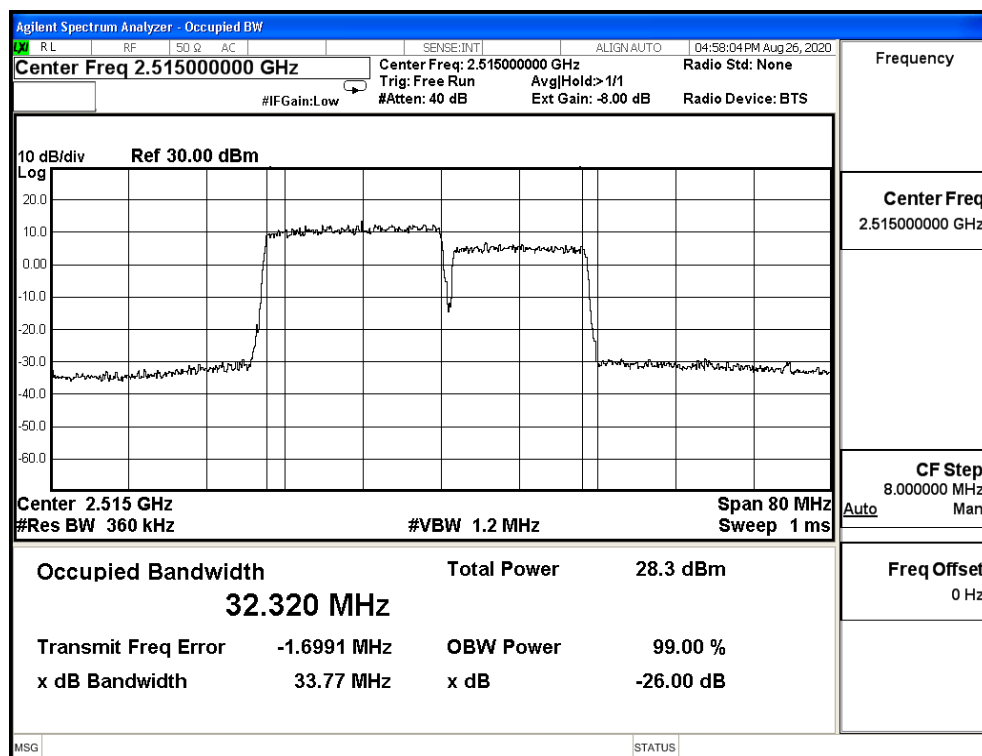
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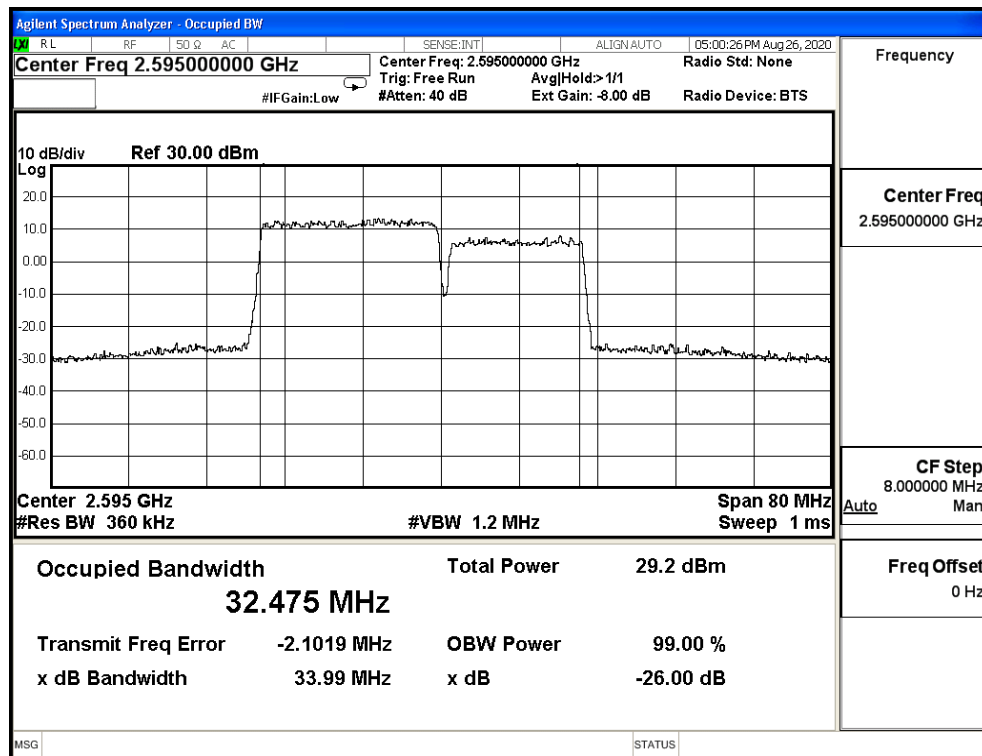
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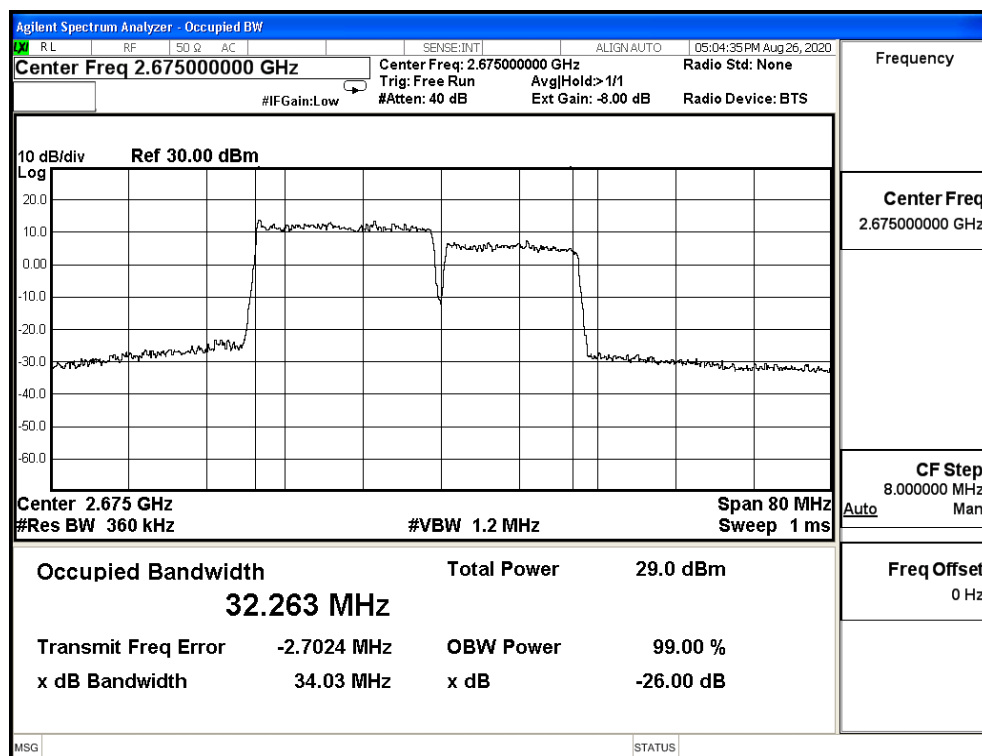
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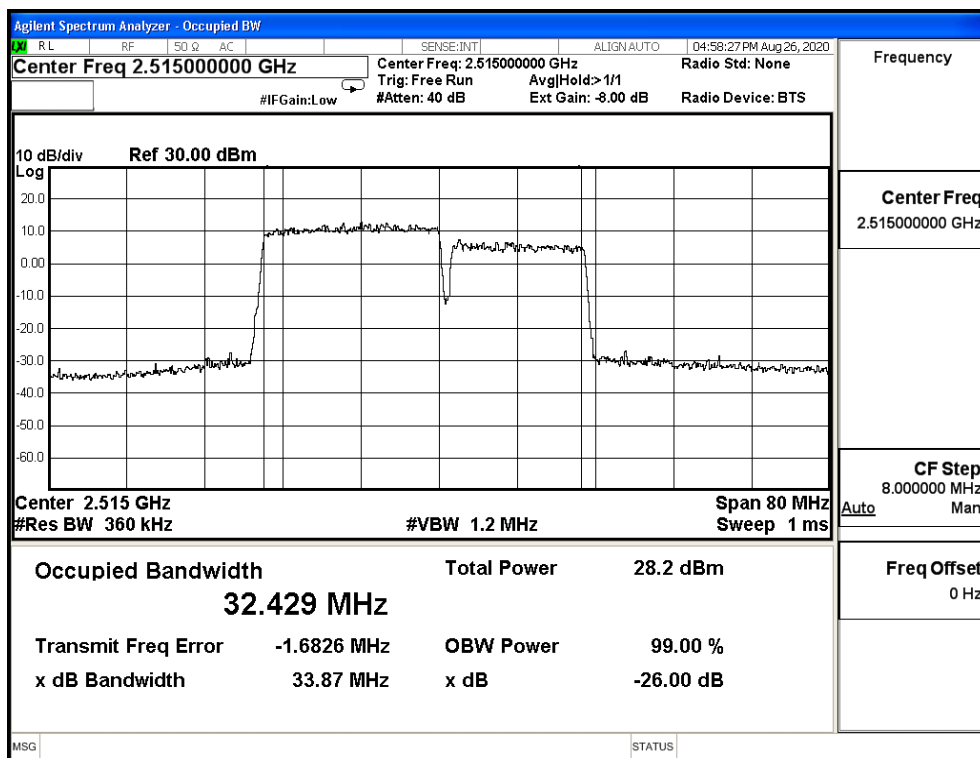
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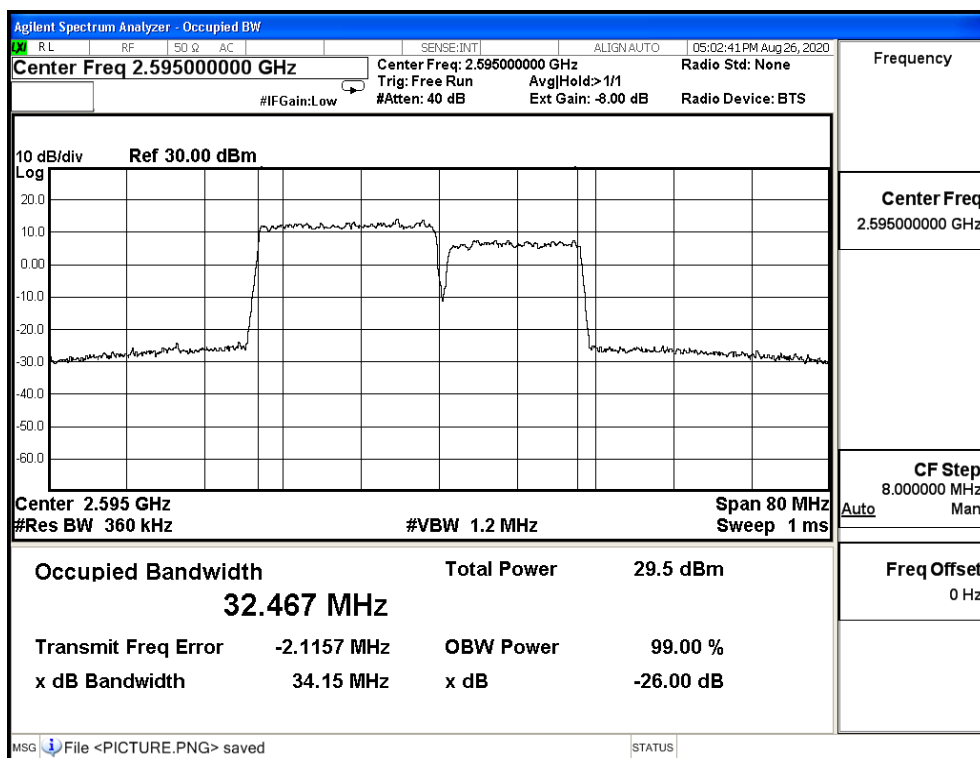
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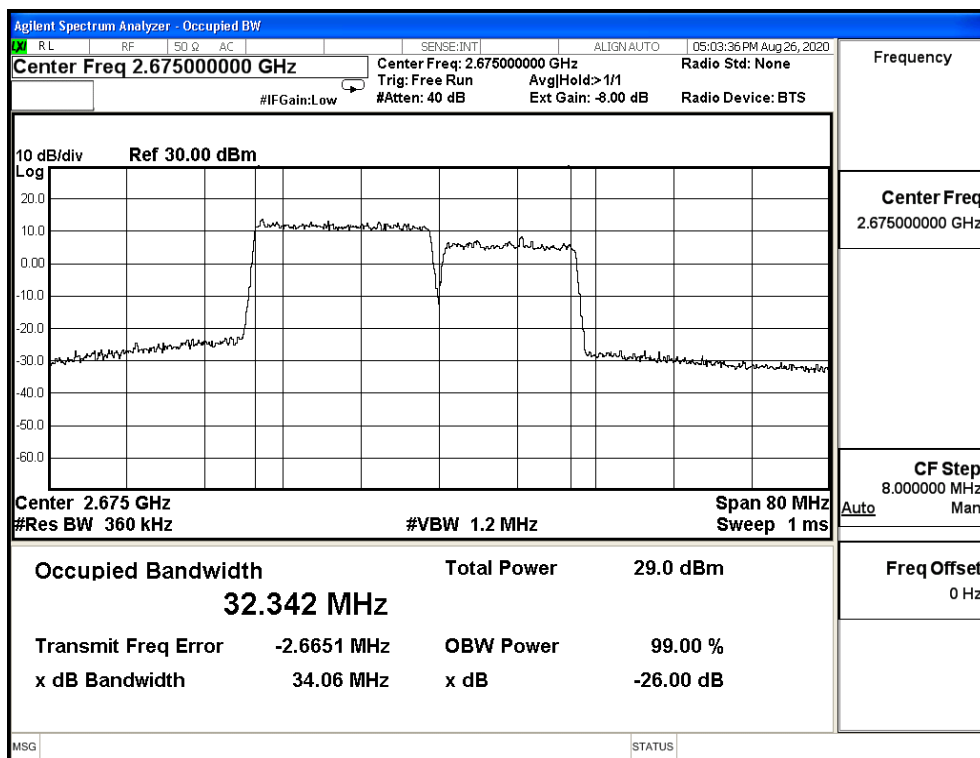
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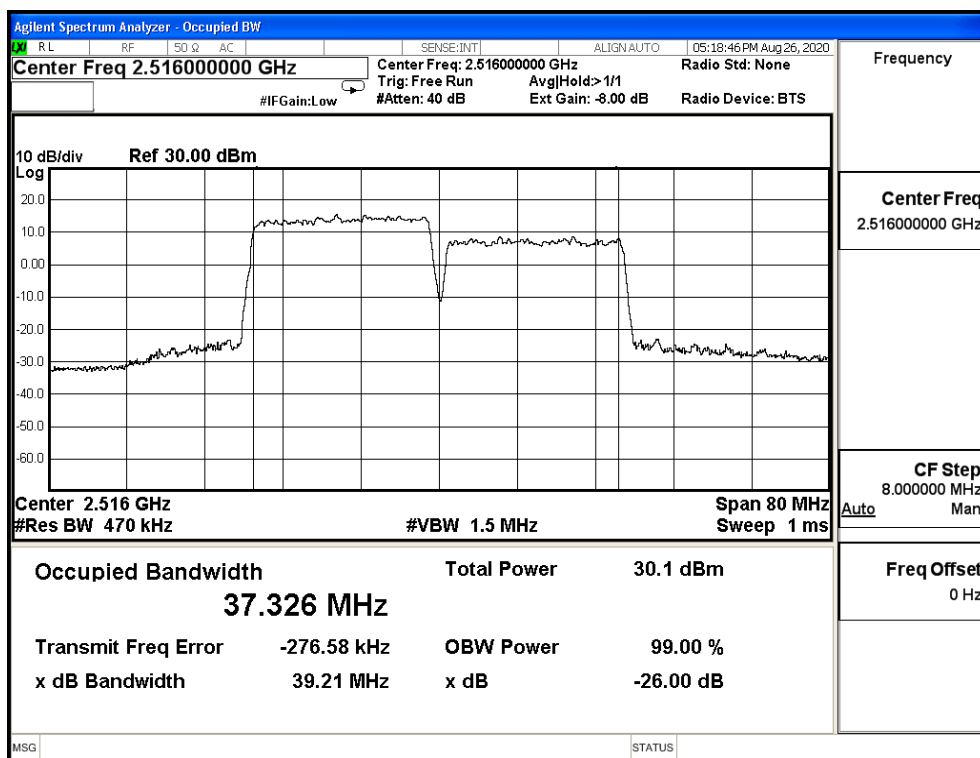
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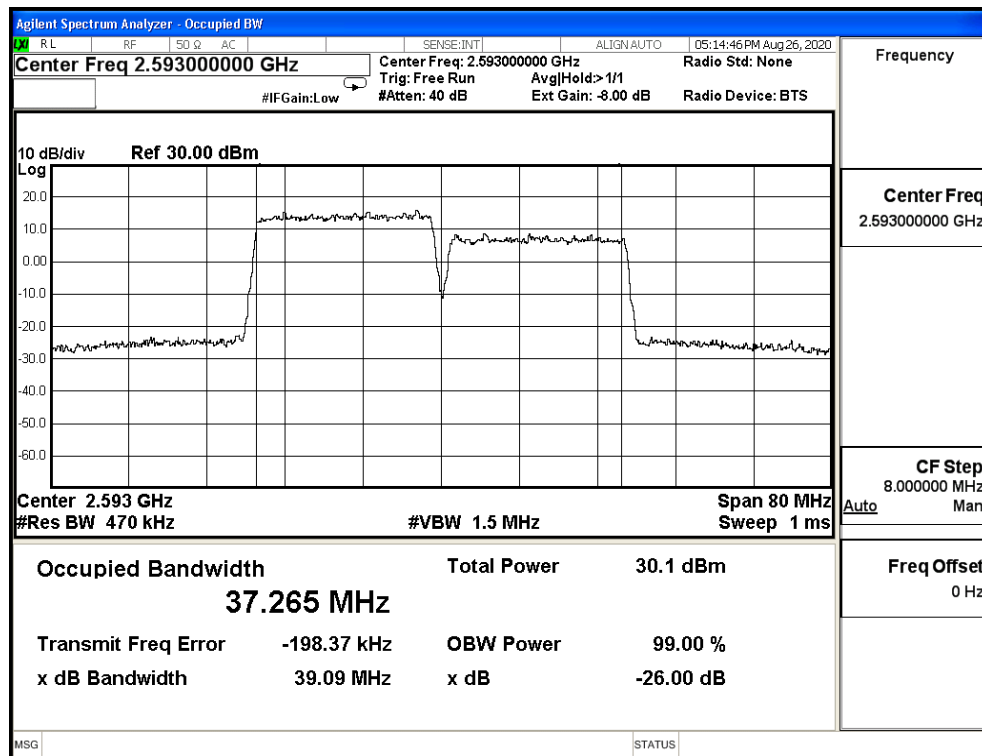
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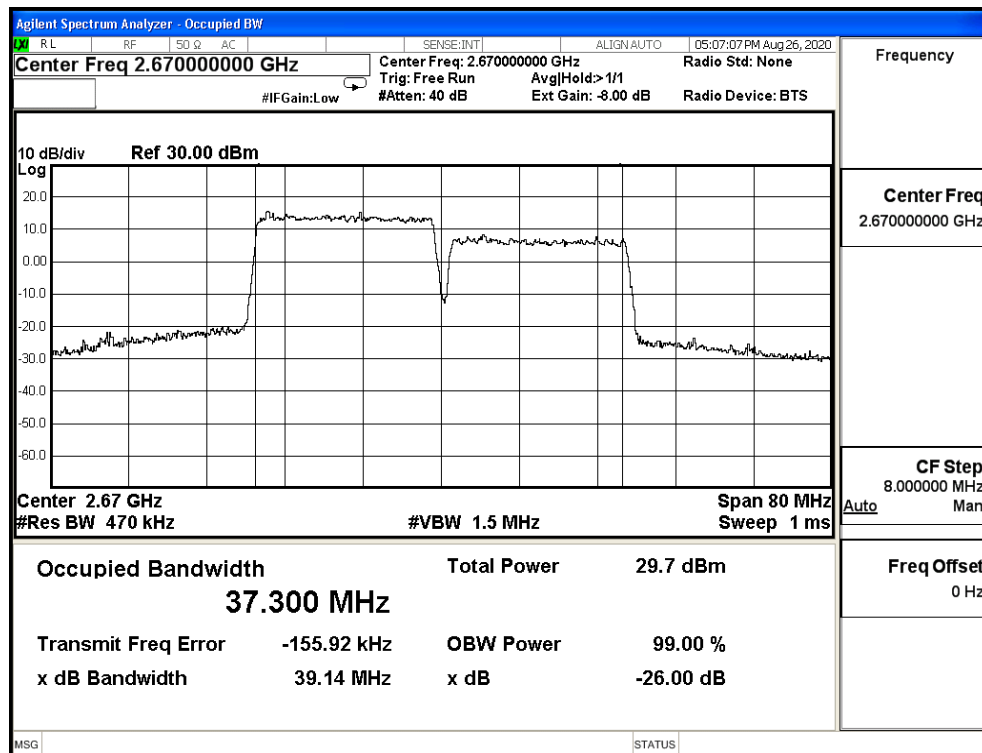
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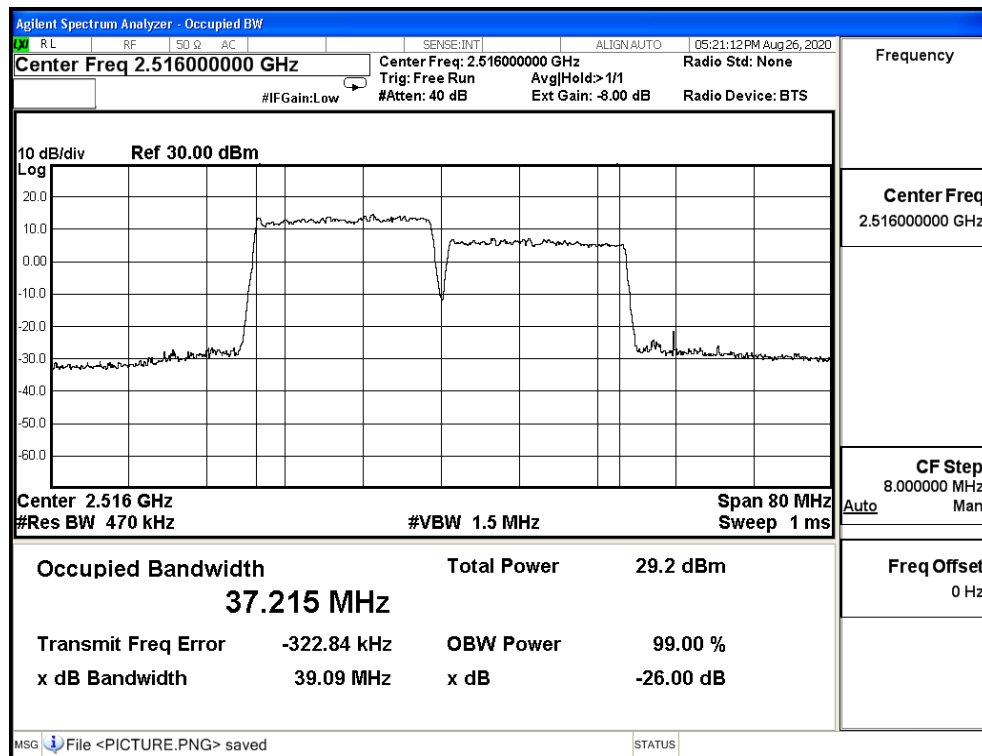
CA_41C_CH40521+CH40719_20M+20M_QPSK_100RB0+100RB0



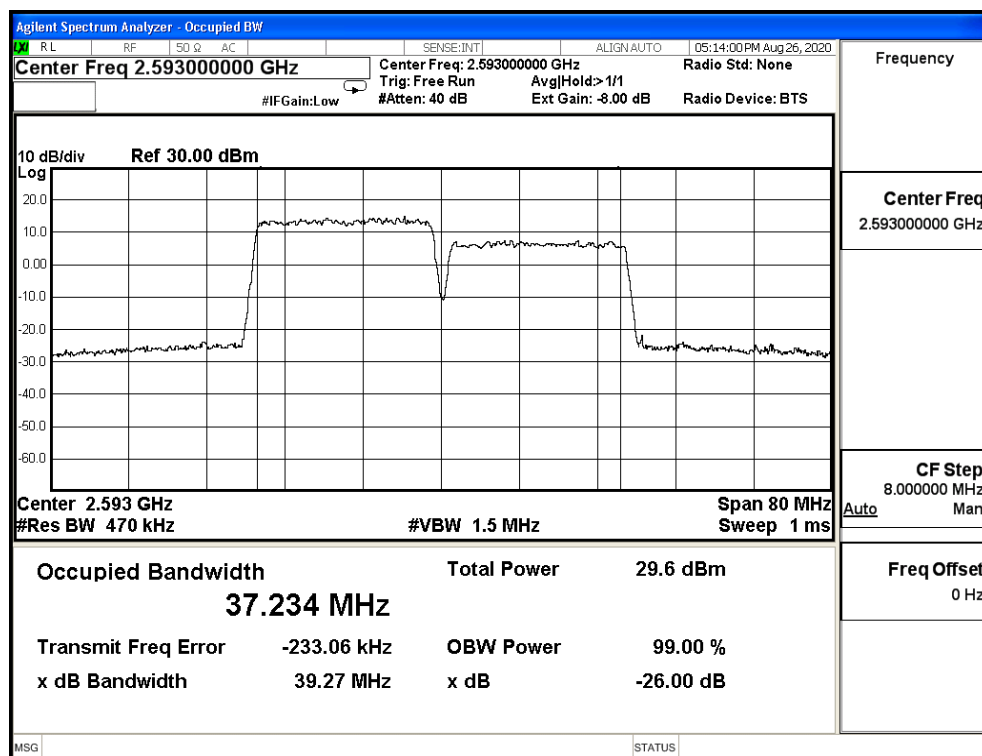
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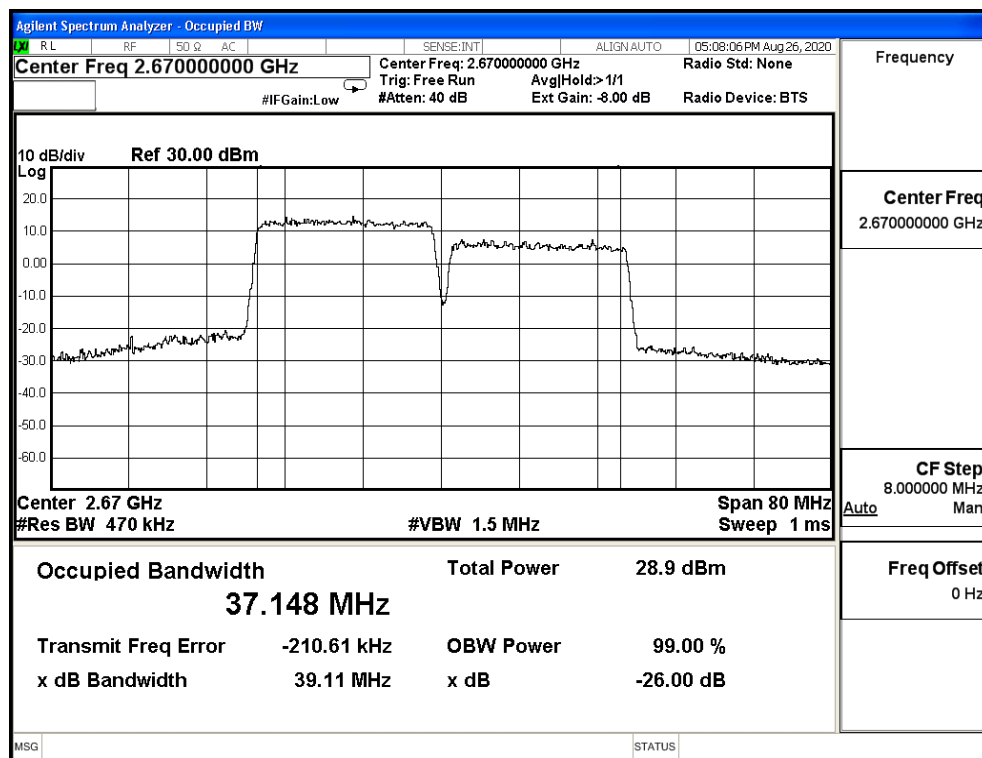
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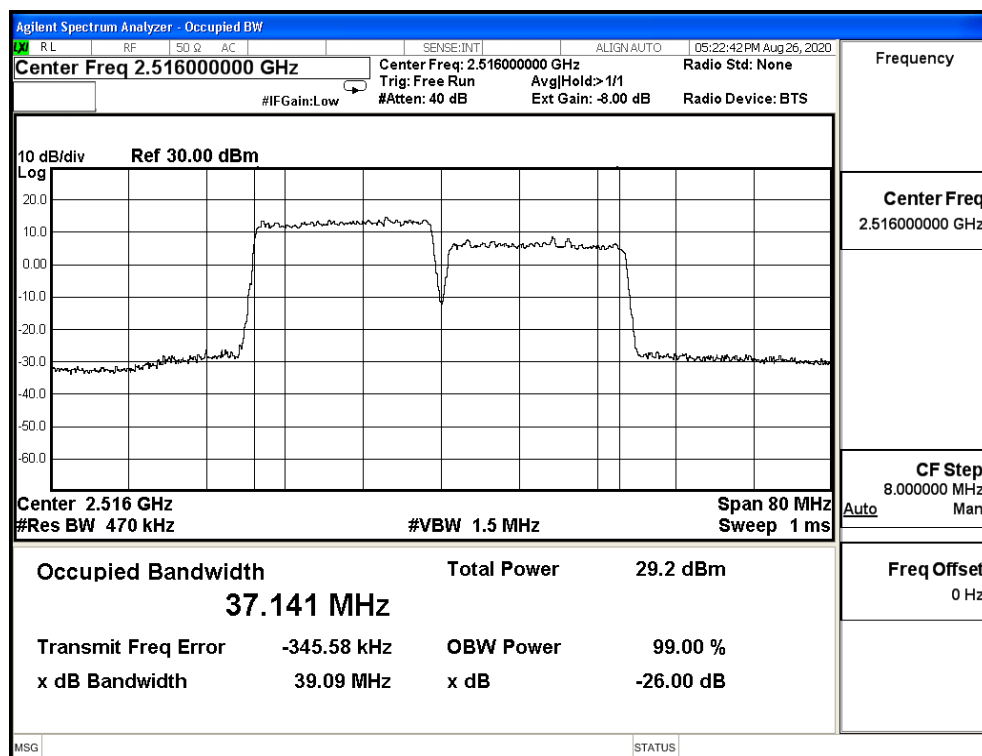
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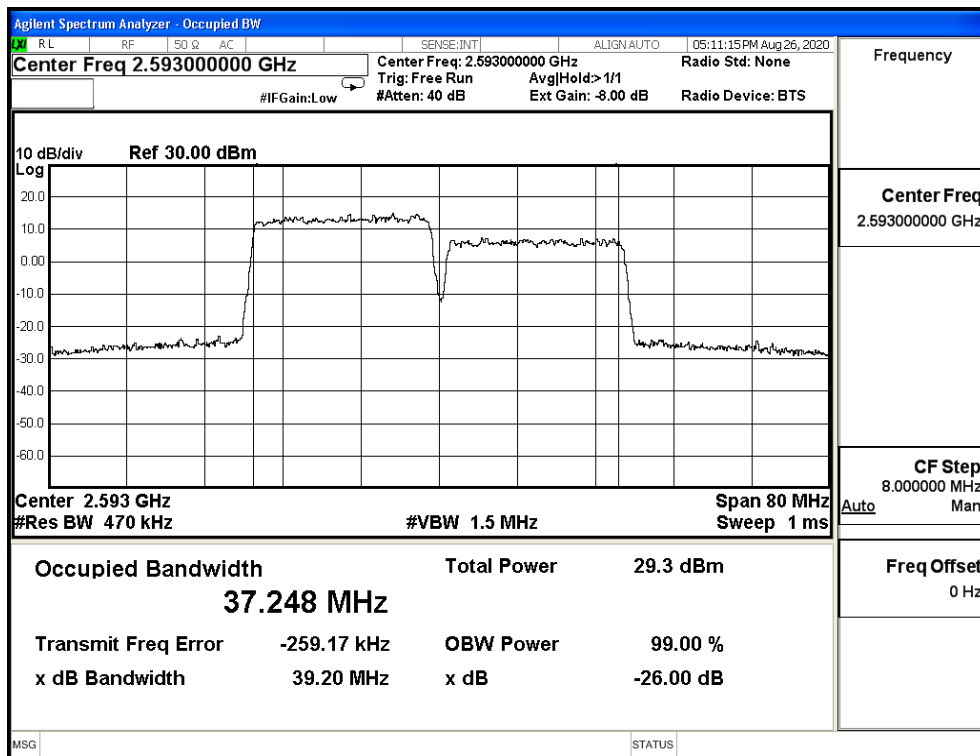
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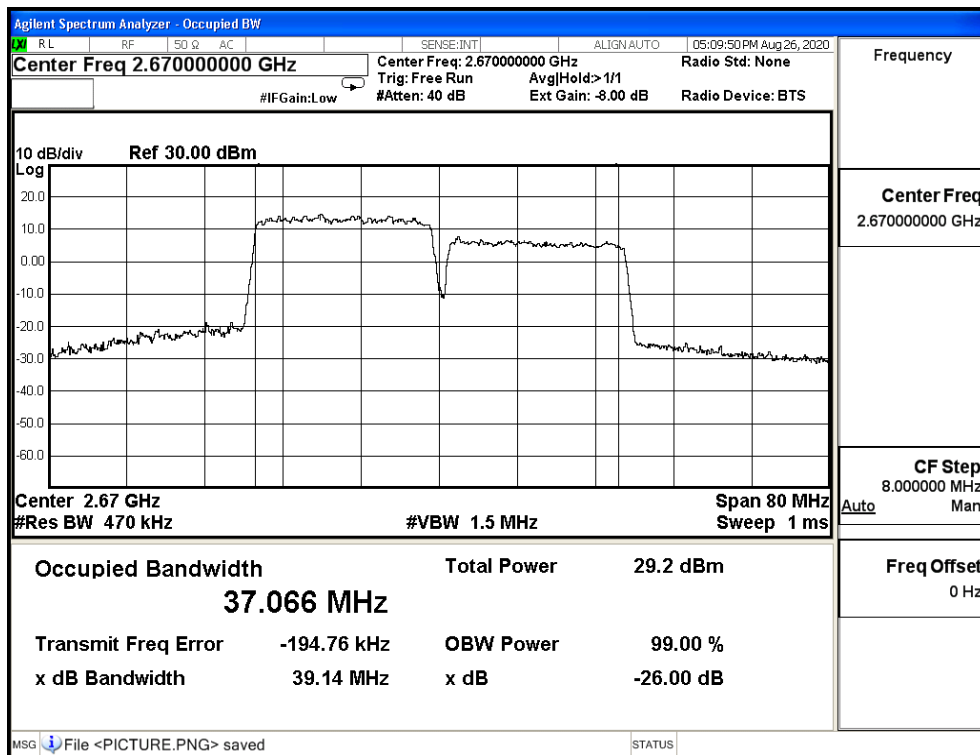
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CA_41C_CH40521+CH40719_20M+20M_64-QAM_100RB0+100RB0



CA_41C_CH41292+CH41490_20M+20M_64-QAM_100RB0+100RB0

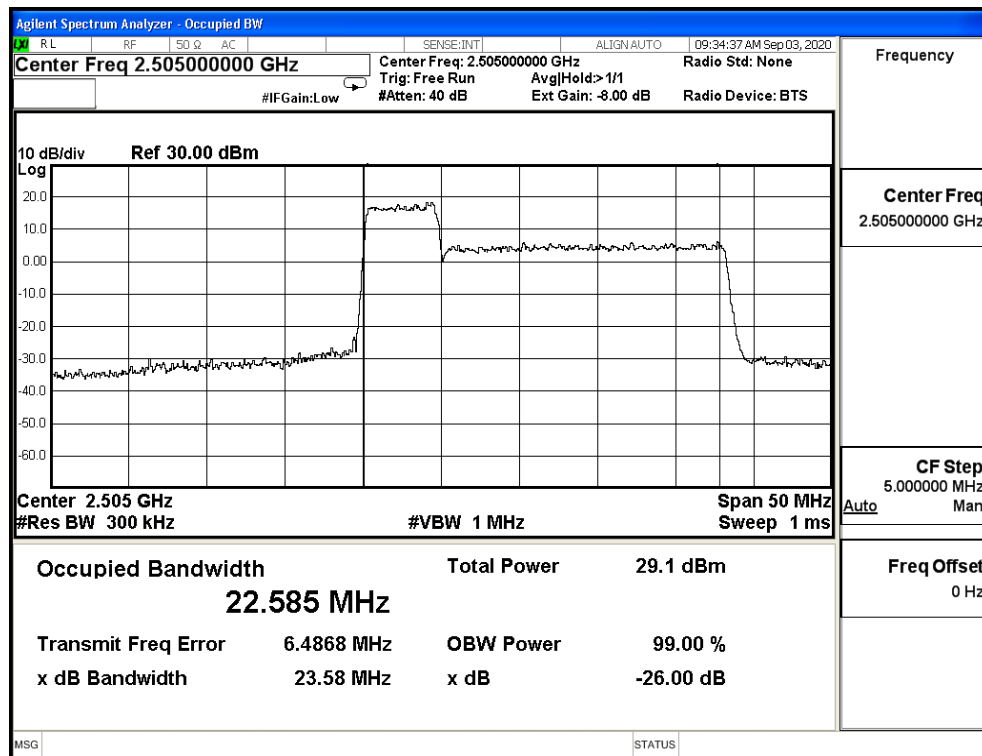


Product	Module		
Test Item	Occupied Bandwidth		
Test Mode	Mode 13: LTE CA Band 41C (ISED)		
Date of Test	2020/09/02	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

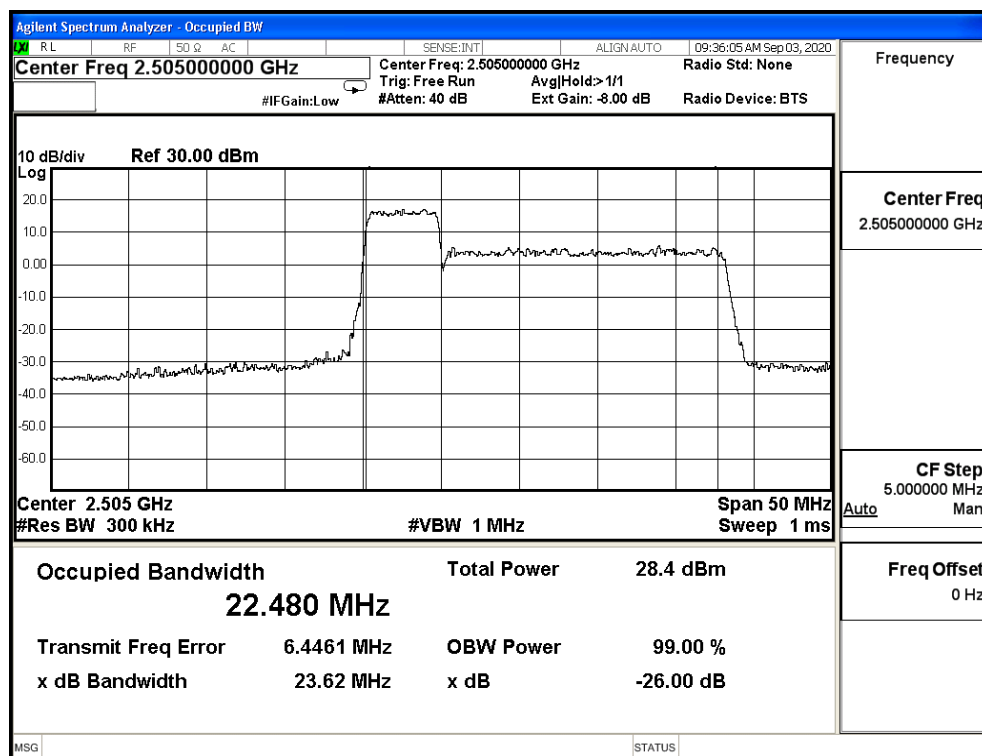
Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
5M+20M	QPSK	2502.5+2514.2	23.580	22.585	N/A
	16-QAM	2502.5+2514.2	23.620	22.480	N/A
	64-QAM	2502.5+2514.2	23.620	22.496	N/A
10M+15M	QPSK	2505+2517	24.130	22.867	N/A
	16-QAM	2505+2517	24.060	22.886	N/A
	64-QAM	2505+2517	24.060	22.873	N/A
10M+20M	QPSK	2505+2519.4	28.750	27.457	N/A
	16-QAM	2505+2519.4	28.720	27.416	N/A
	64-QAM	2505+2519.4	28.700	27.394	N/A
15M+10M	QPSK	2507.5+2519.5	24.130	22.952	N/A
	16-QAM	2507.5+2519.5	24.240	22.937	N/A
	64-QAM	2507.5+2519.5	24.240	22.921	N/A
15M+15M	QPSK	2507.5+2522.5	29.350	28.003	N/A
	16-QAM	2507.5+2522.5	29.450	28.095	N/A
	64-QAM	2507.5+2522.5	29.540	28.096	N/A
15M+20M	QPSK	2507.5+2524.6	33.910	32.307	N/A
	16-QAM	2507.5+2524.6	33.870	32.251	N/A
	64-QAM	2507.5+2524.6	33.820	32.308	N/A
20M+5M	QPSK	2510+2521.7	23.870	22.801	N/A
	16-QAM	2510+2521.7	24.070	22.762	N/A
	64-QAM	2510+2521.7	23.920	22.788	N/A
20M+10M	QPSK	2510+2524.4	28.910	27.615	N/A
	16-QAM	2510+2524.4	29.040	27.530	N/A
	64-QAM	2510+2524.4	28.930	27.552	N/A

Bandwidth (MHz)	Modulation	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
			26dB BW	99% BW	
20M+15M	QPSK	2510+2527.1	33.940	32.345	N/A
	16-QAM	2510+2527.1	34.120	32.356	N/A
	64-QAM	2510+2527.1	34.060	32.358	N/A
20M+20M	QPSK	2510+2529.8	39.110	37.276	N/A
	16-QAM	2510+2529.8	39.060	37.123	N/A
	64-QAM	2510+2529.8	39.070	37.121	N/A

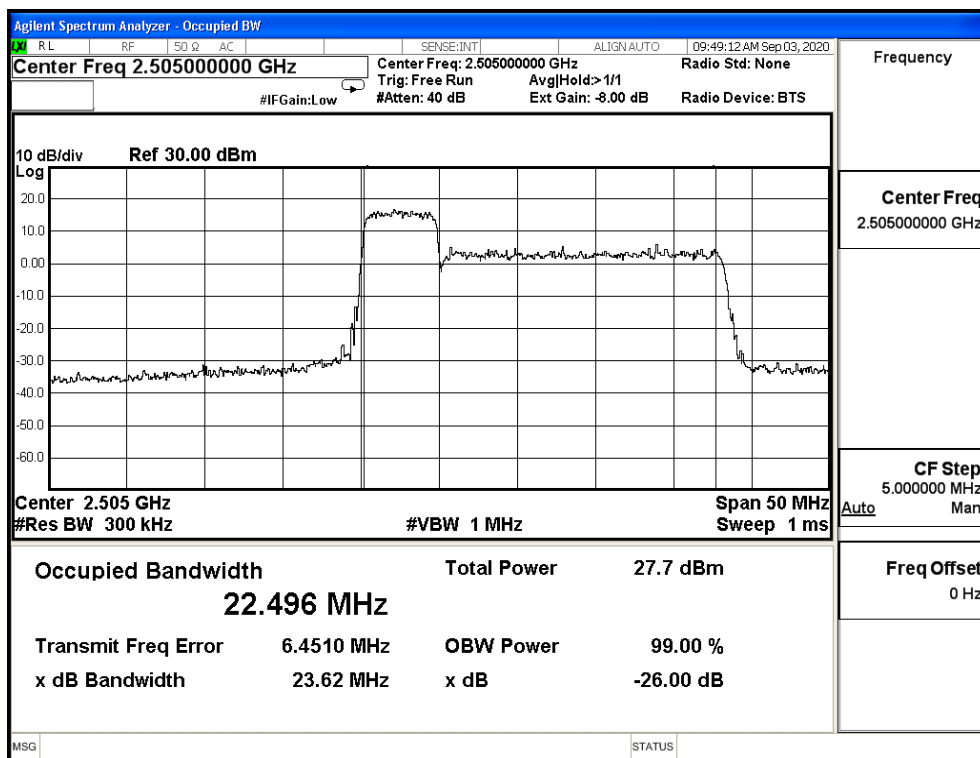
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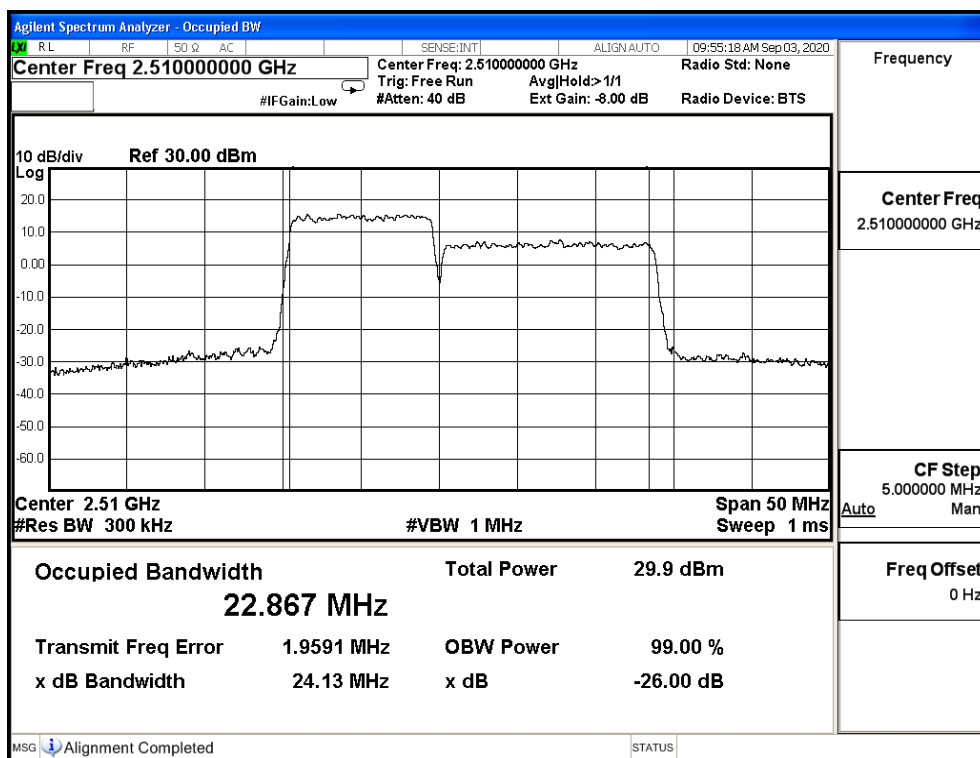
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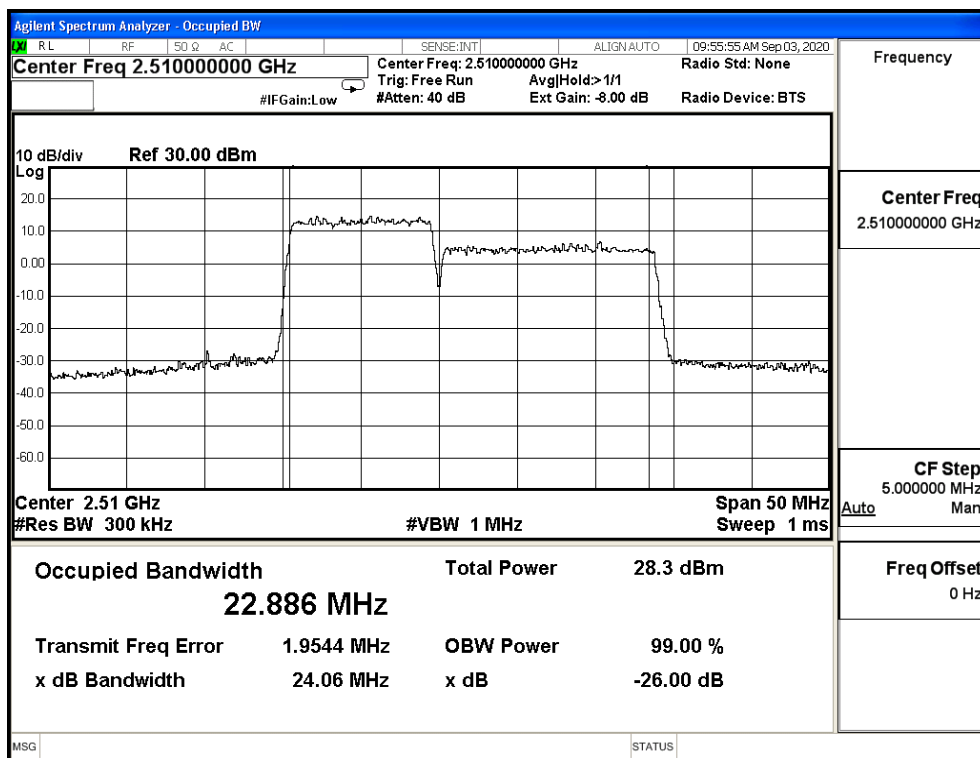
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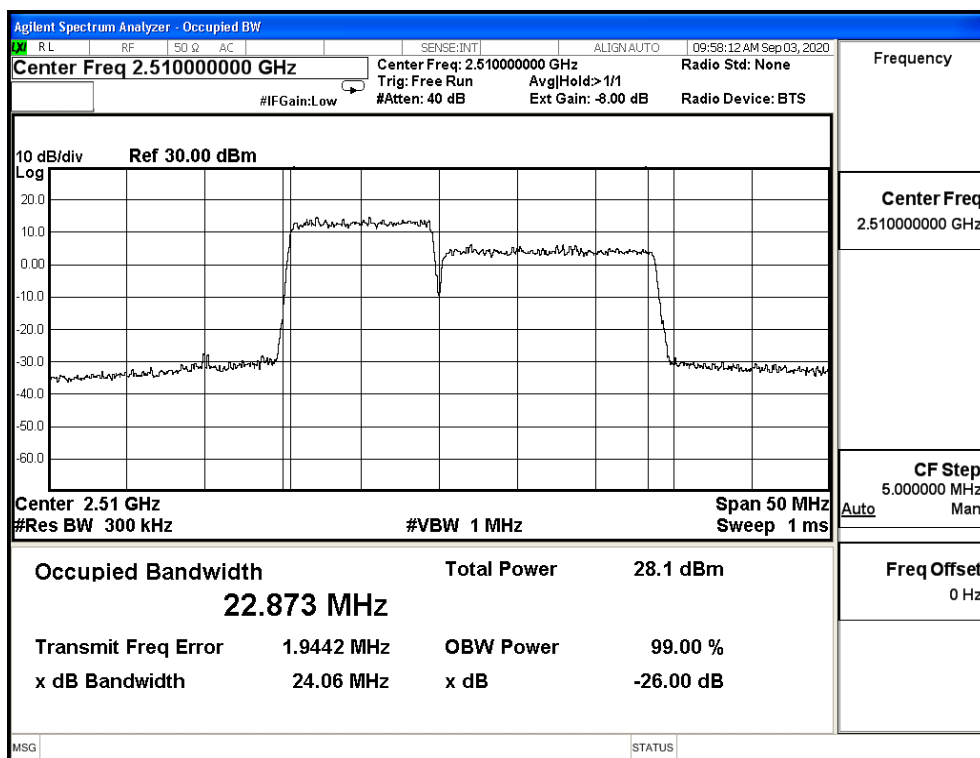
CA_41C_CH39740+CH39860_10M+15M_QPSK_50RB0+75RB0



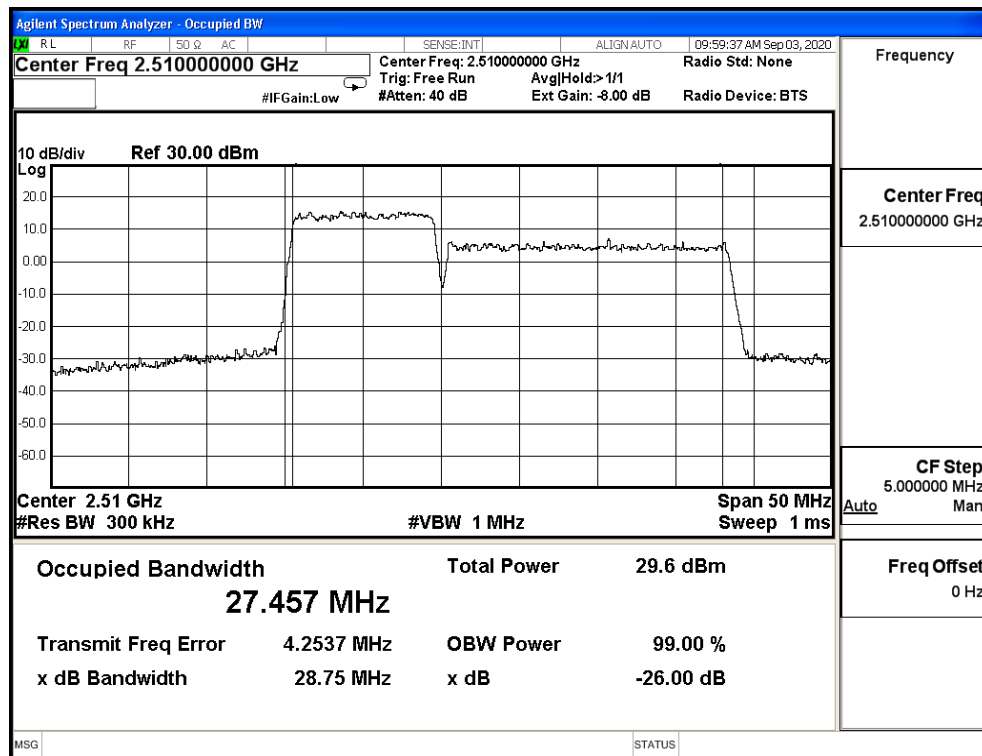
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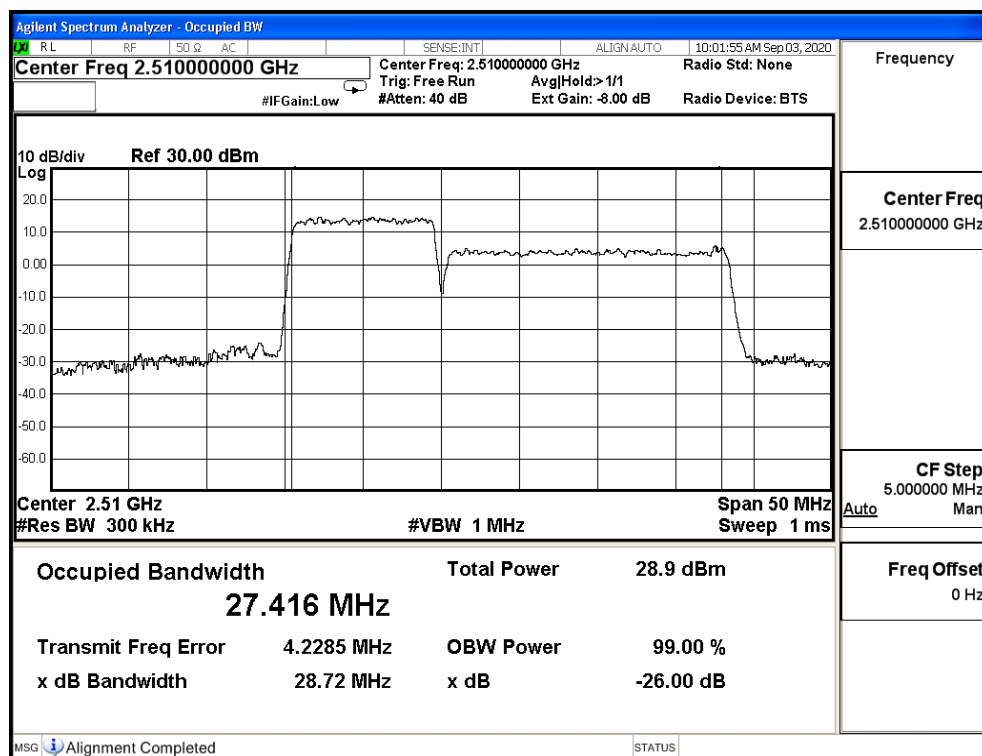
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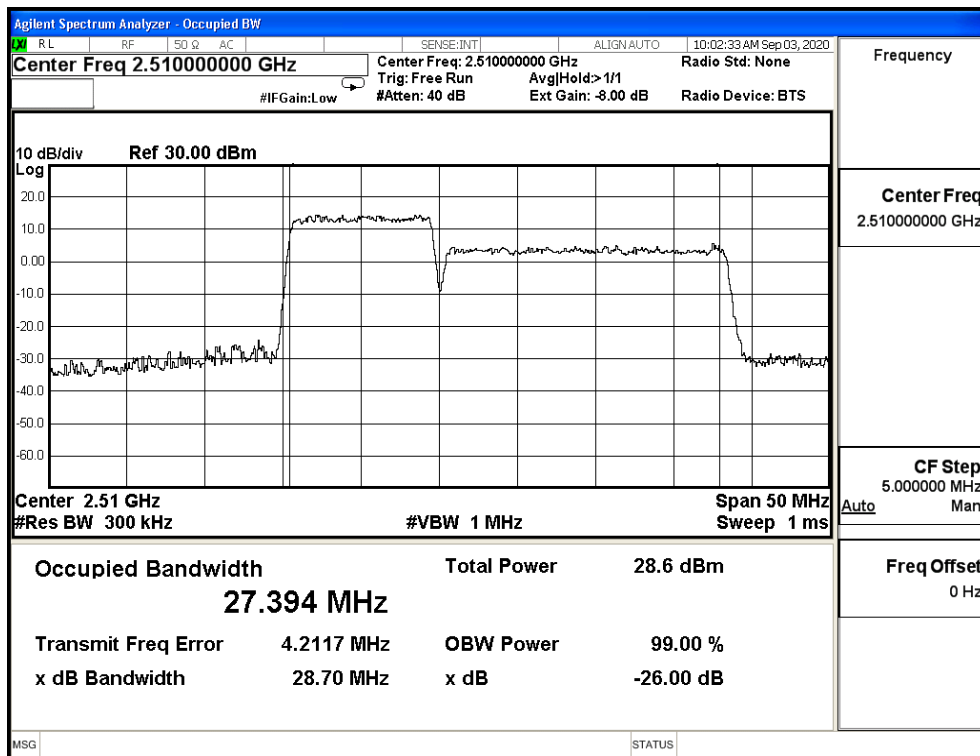
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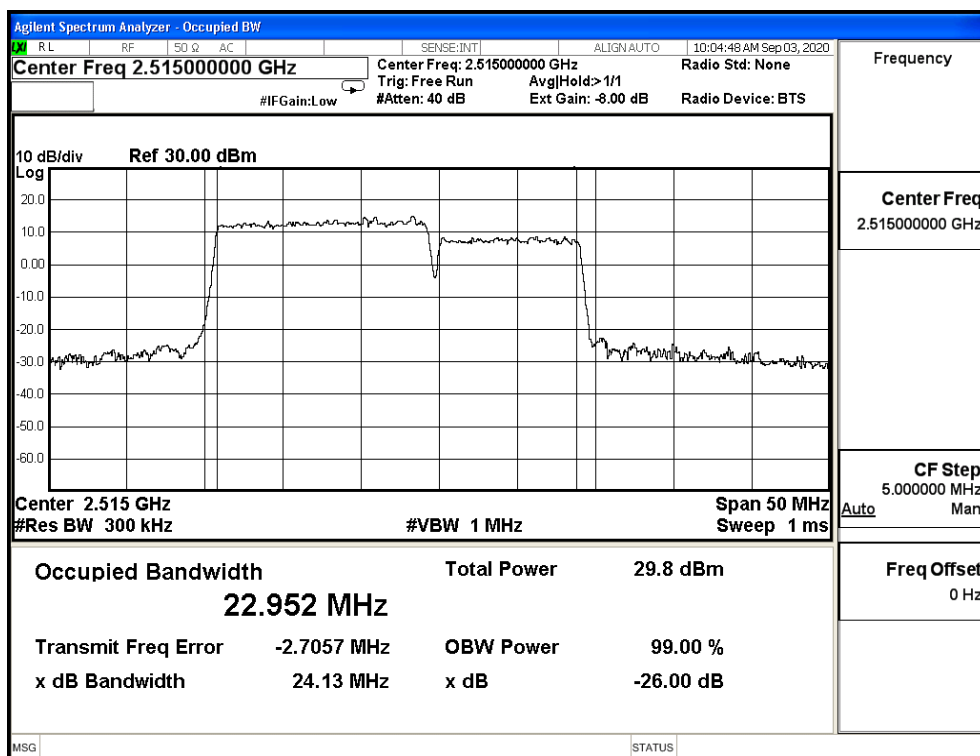
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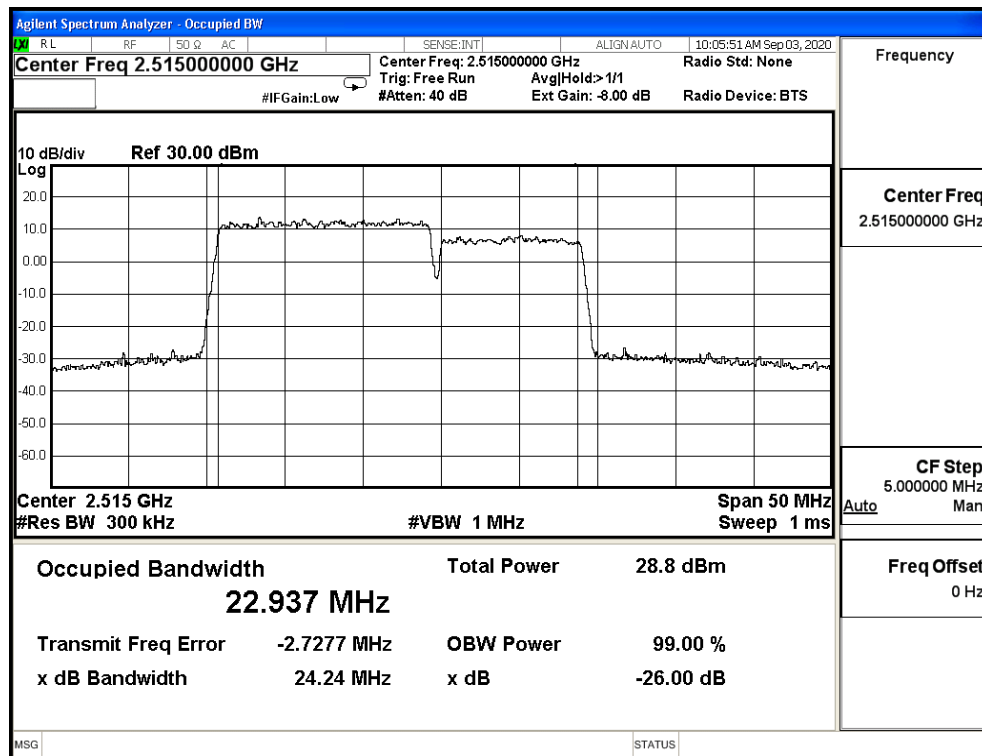
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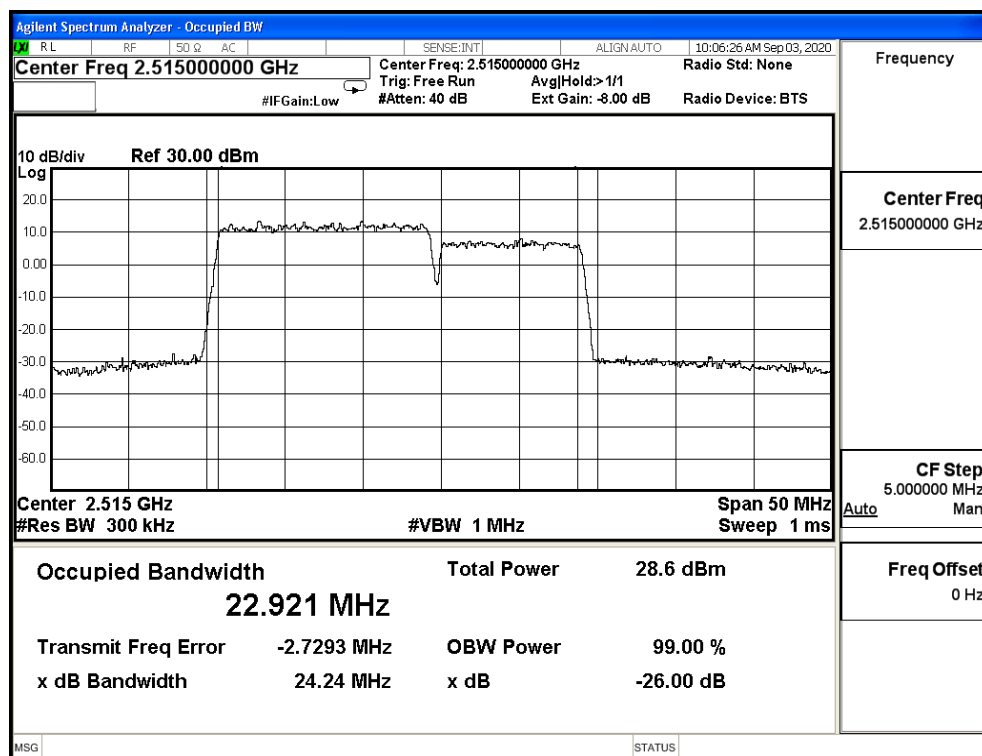
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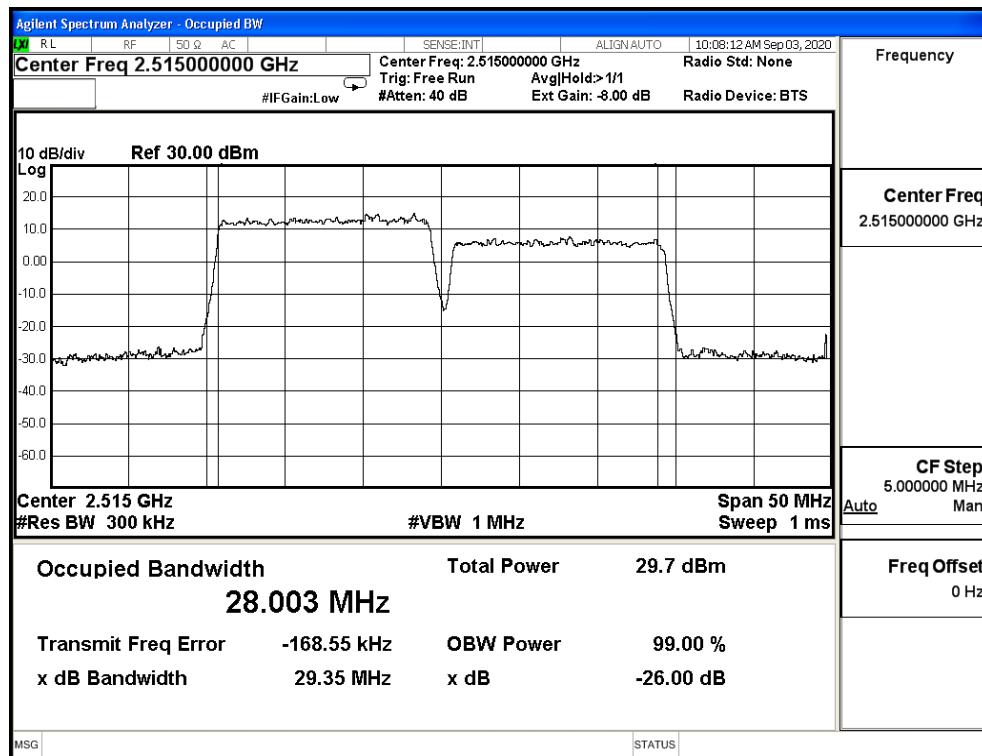
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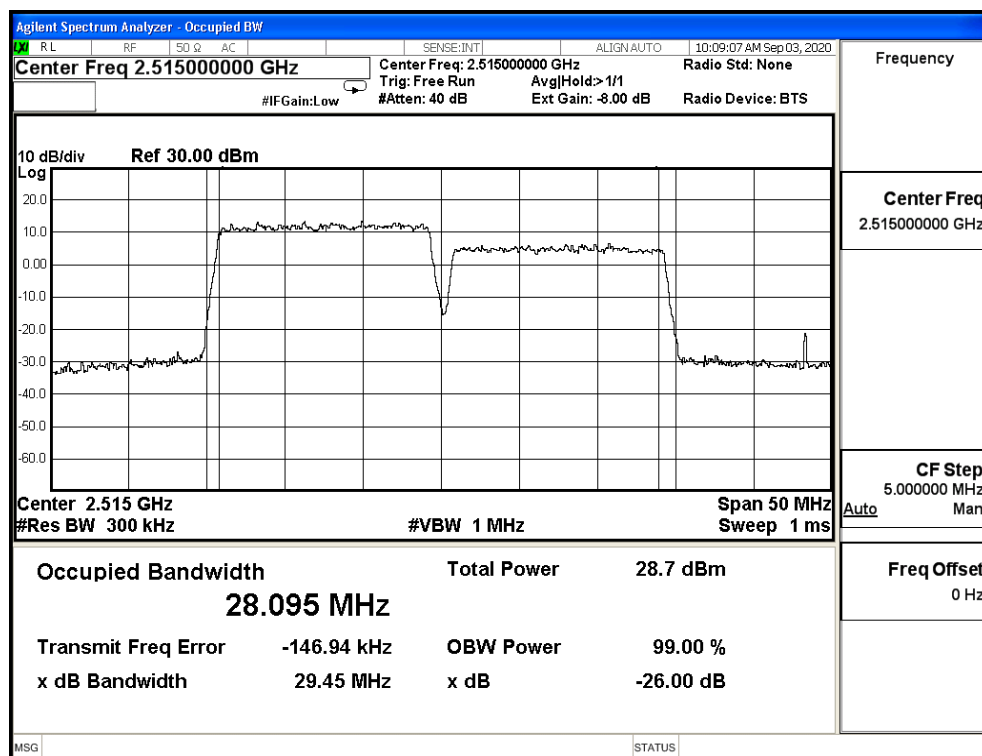
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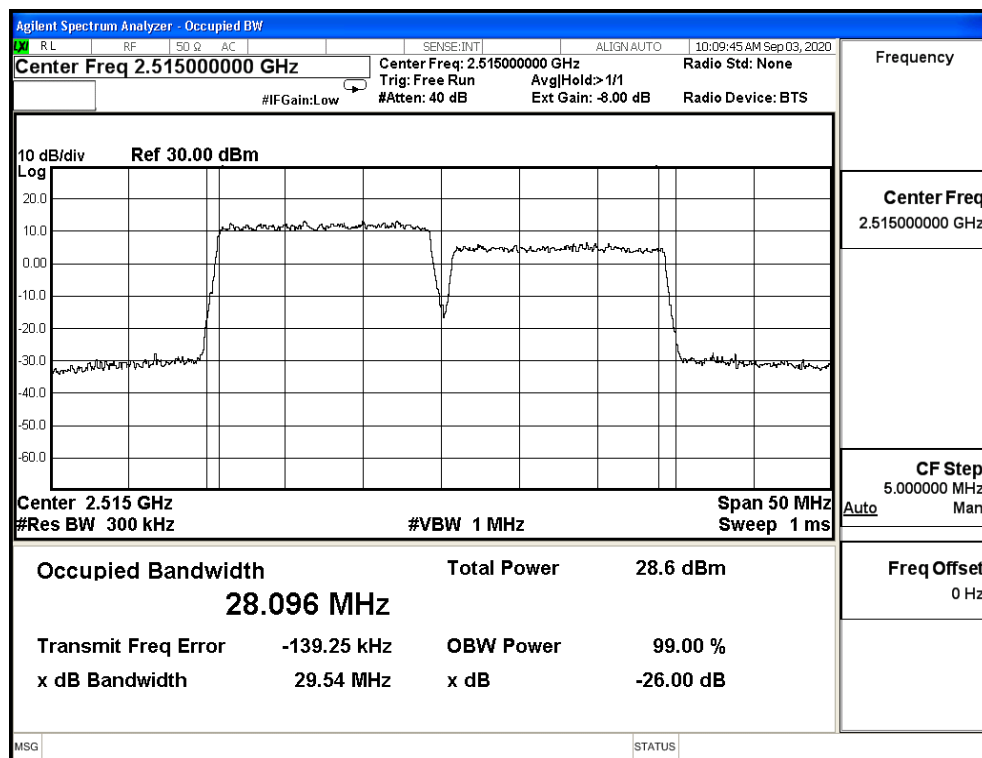
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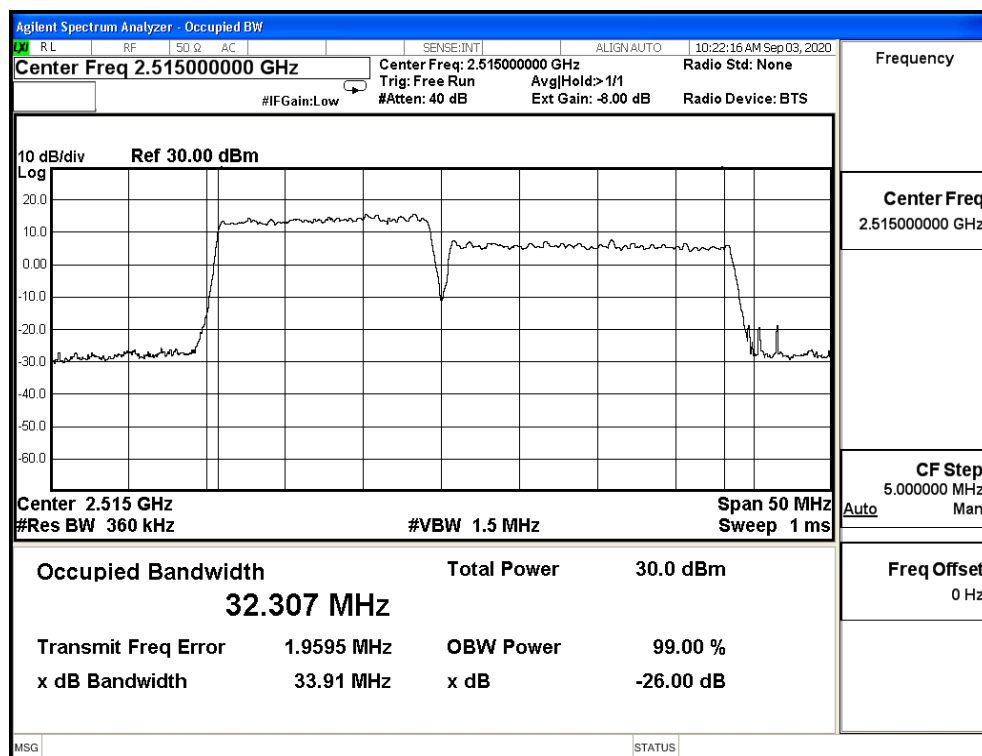
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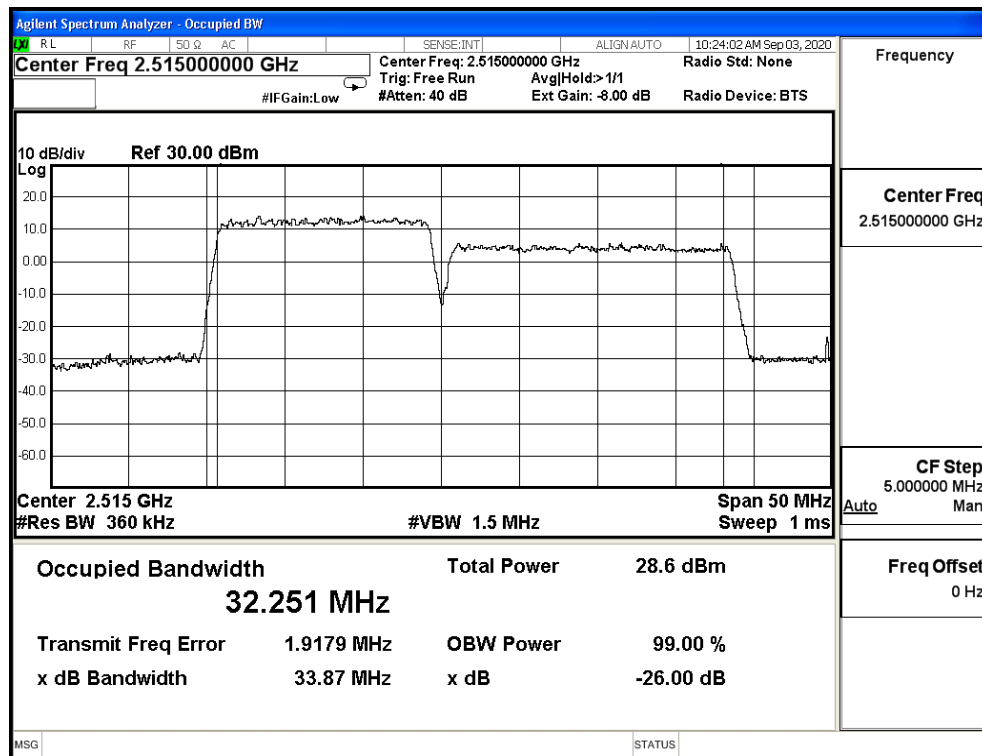
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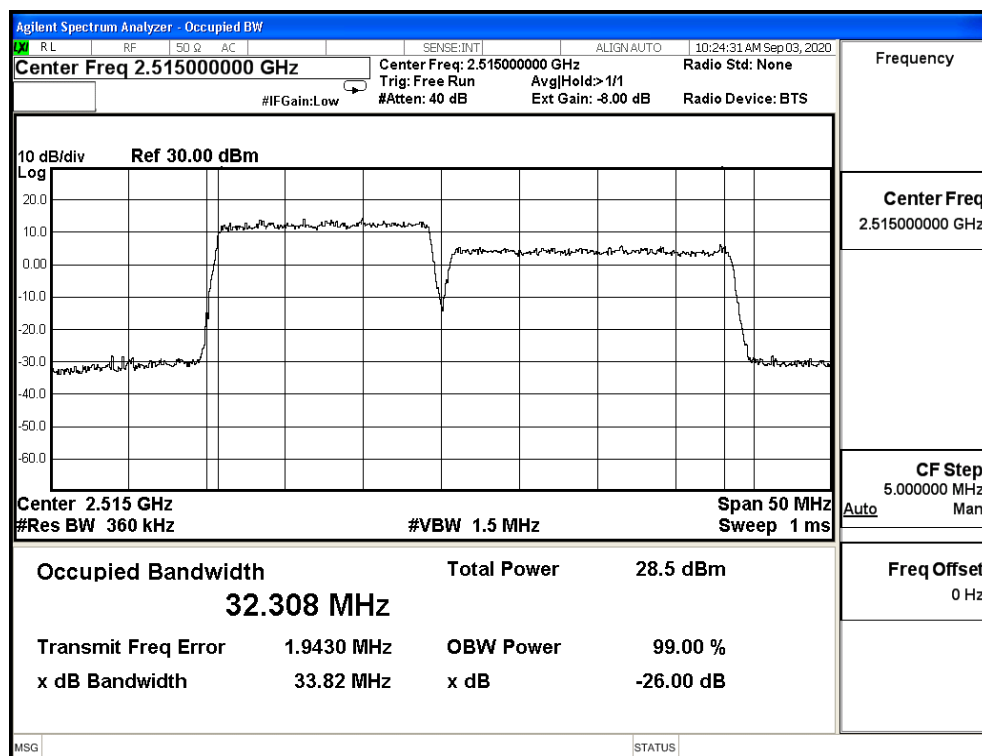
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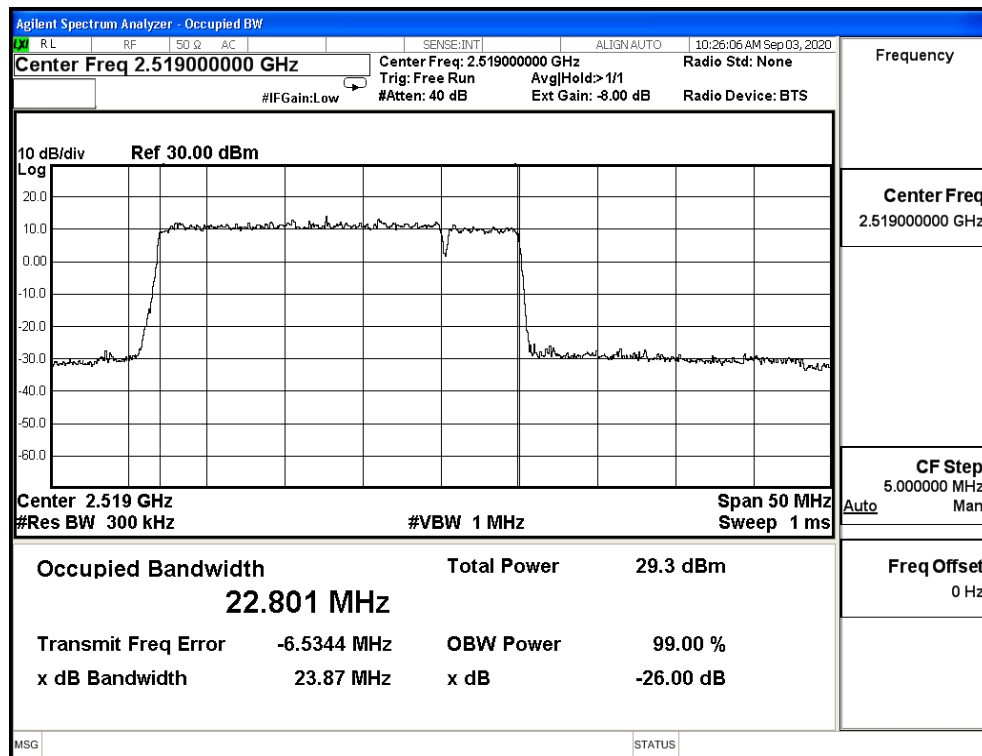
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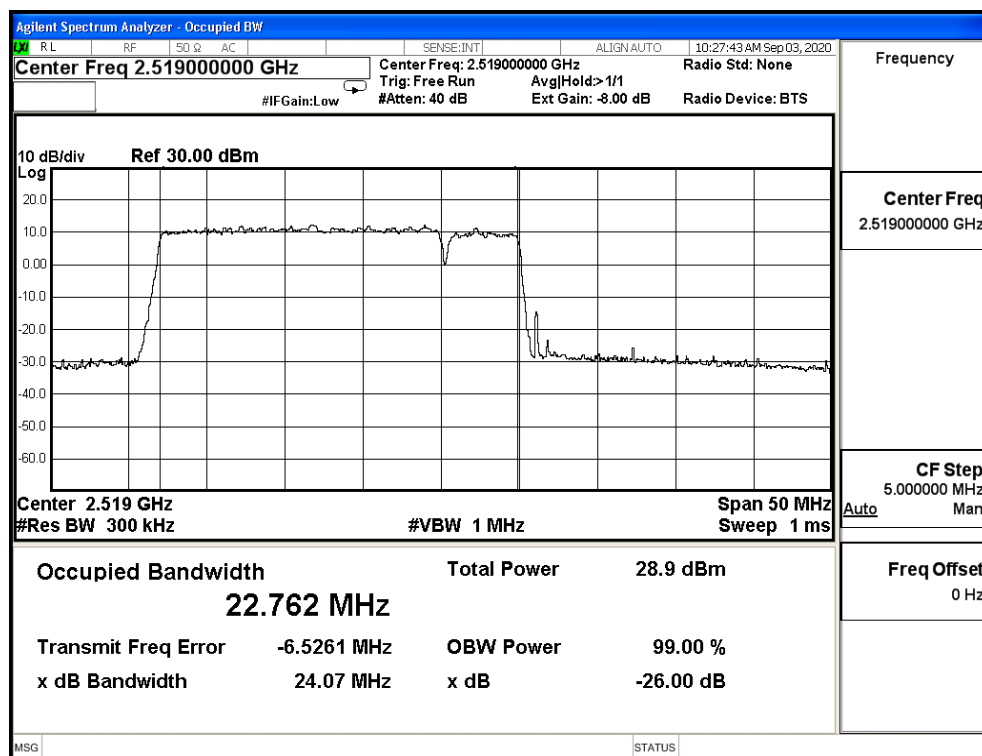
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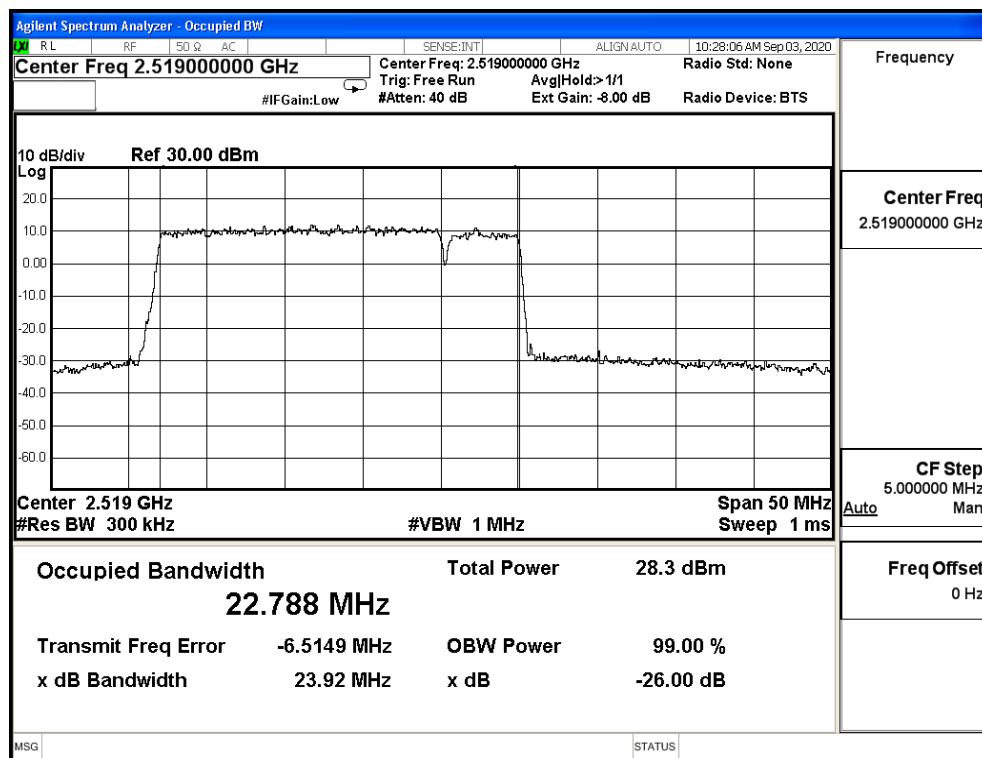
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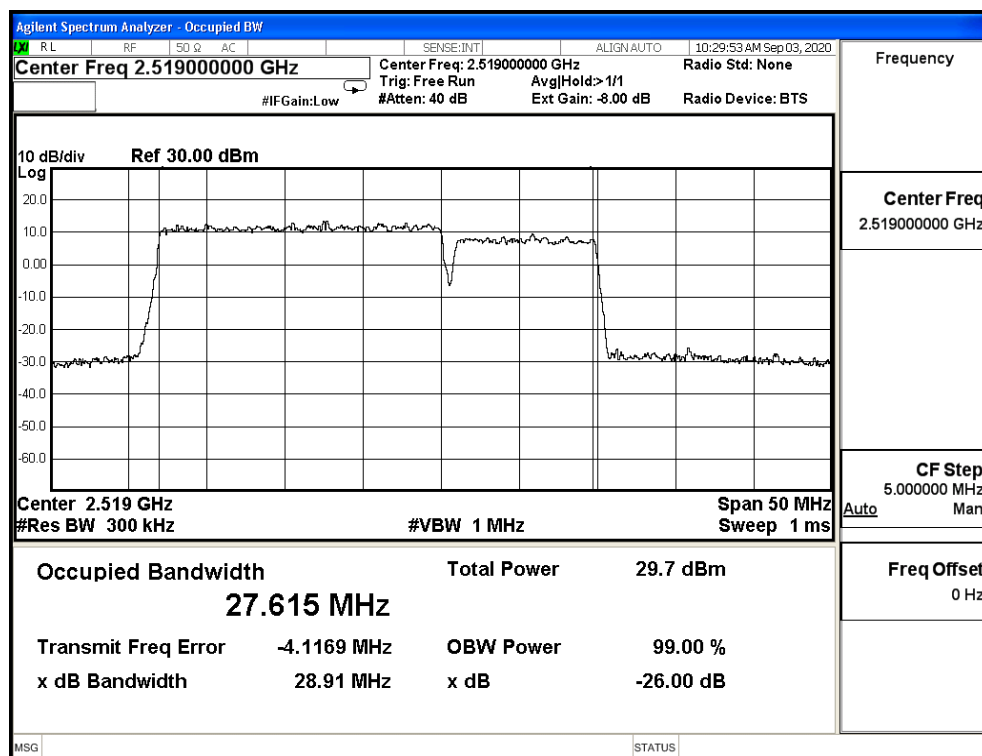
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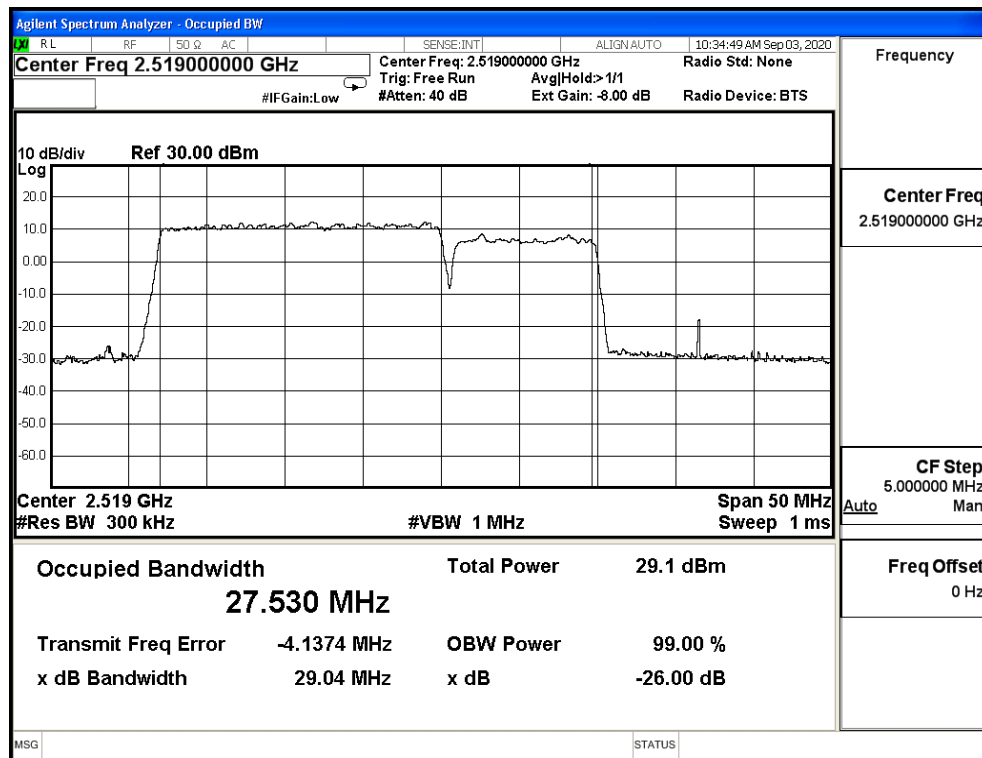
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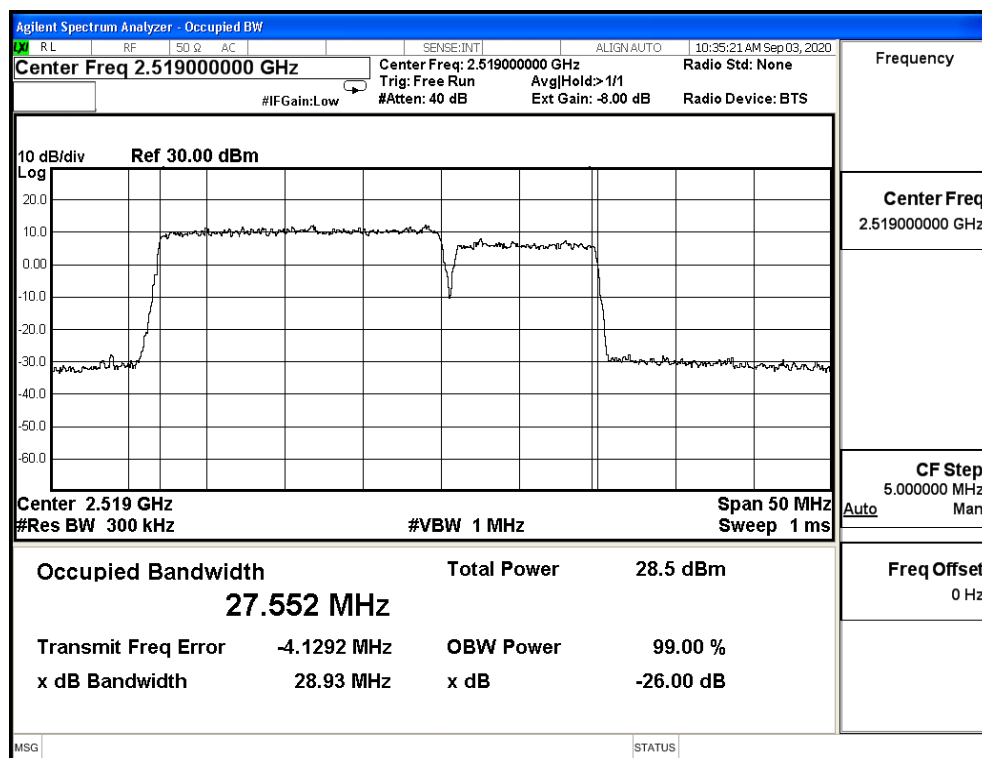
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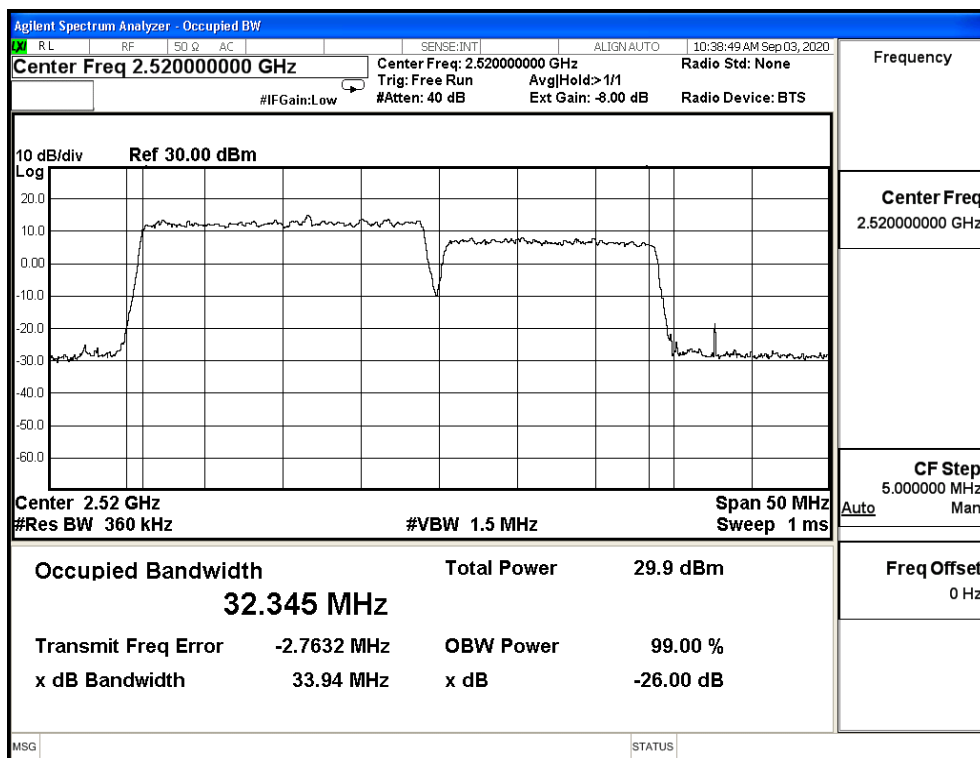
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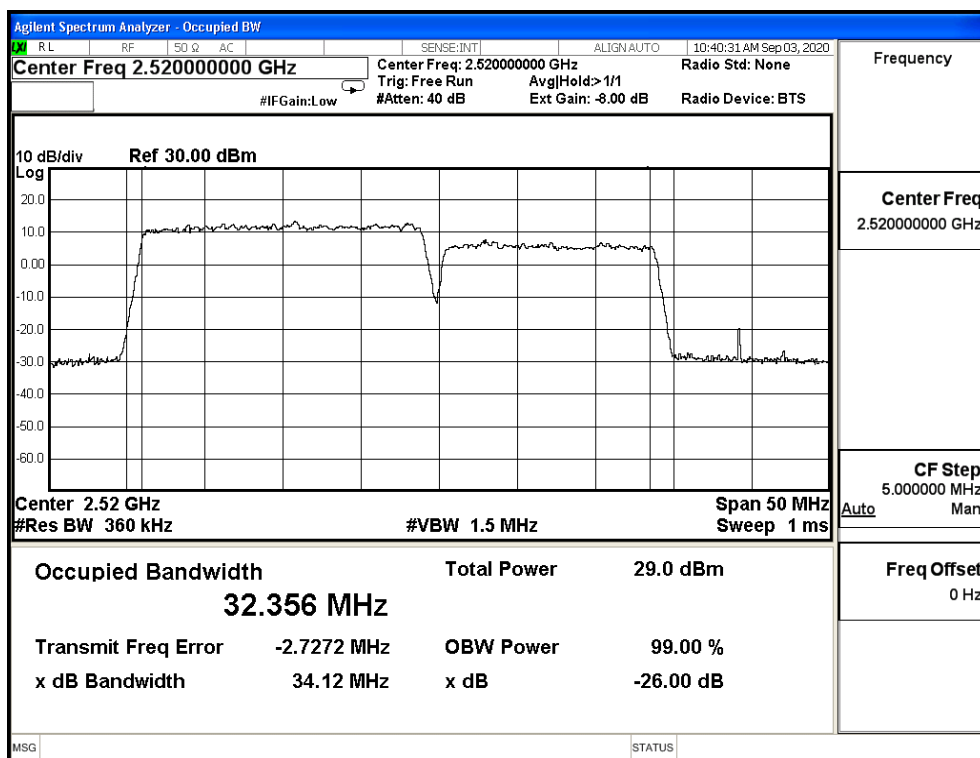
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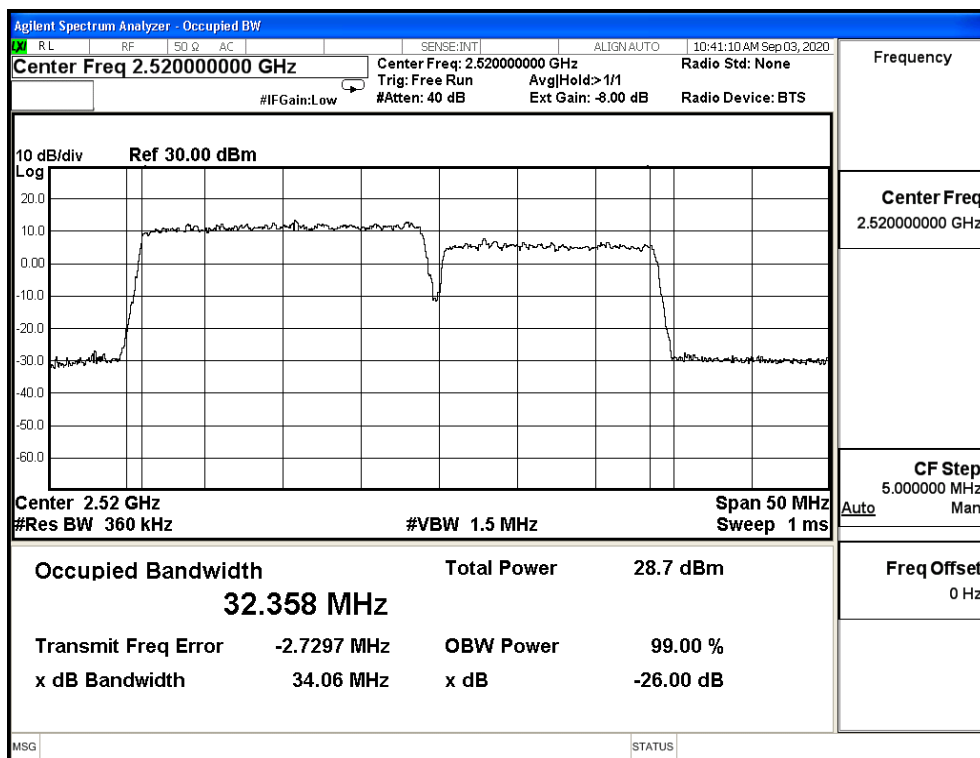
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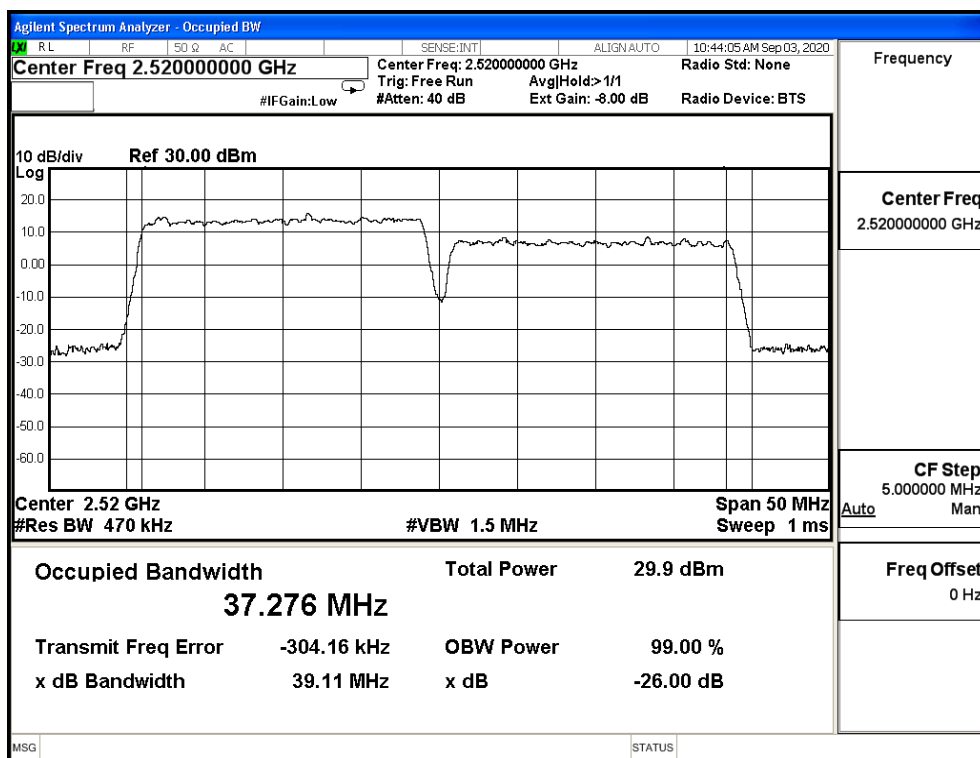
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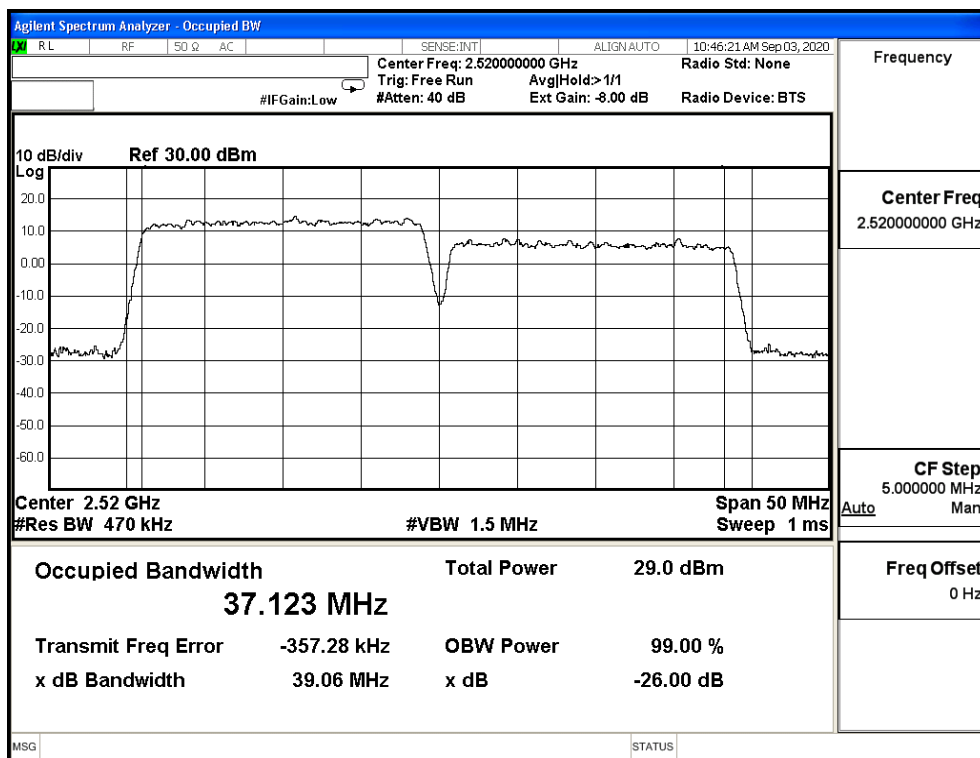
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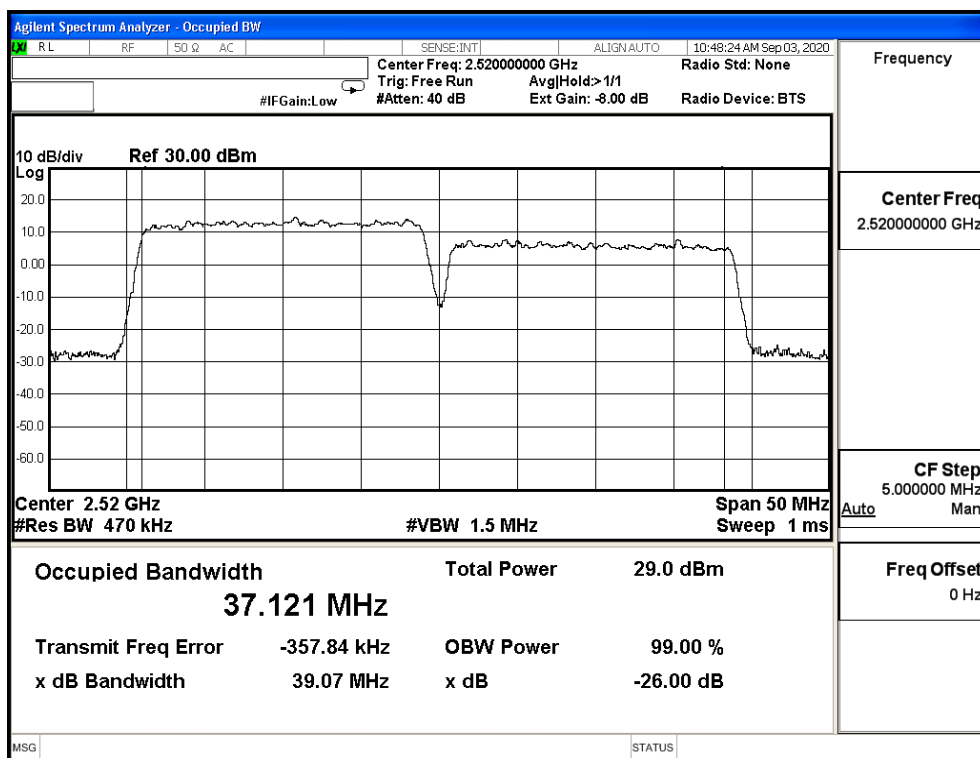
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CA_41C_CH39790+CH39988_20M+20M_16-QAM_100RB0+100RB0

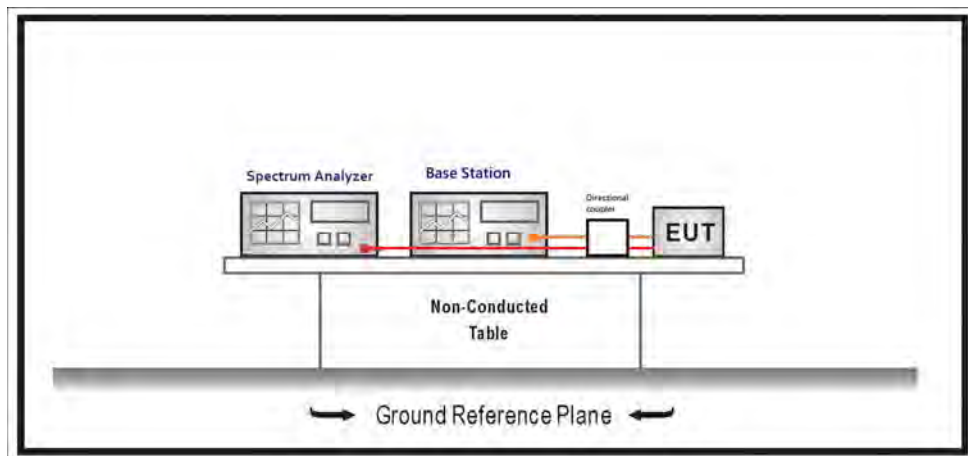


CA_41C_CH39790+CH39988_20M+20M_64-QAM_100RB0+100RB0



5. Peak To Average Ratio

5.1. Test Setup



5.2. Test Procedure

1. Set resolution/measurement bandwidth $\geq$ 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 %.

5.3. Test Method

KDB 971168 D01 Power Meas License Digital Systems v03 sub-clause 5.7.2
ANSI C63.26-2015 Sub-clause 5.2.3.4

5.4. Test Result

Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 1: LTE Band 2/25		
Date of Test	2020/08/28	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	26047	1850.7	QPSK	25.14	20.68	4.43
			16-QAM	25.26	20.41	4.78
			64-QAM	25.11	18.86	6.22
	26365	1882.5	QPSK	25.39	20.94	4.43
			16-QAM	25.45	20.58	4.83
			64-QAM	25.32	19.03	6.22
	26683	1914.3	QPSK	25.24	20.86	4.33
			16-QAM	25.32	19.92	5.35
			64-QAM	25.25	19.17	6.02
3M	26055	1851.5	QPSK	25.21	20.78	4.43
			16-QAM	25.34	20.13	5.20
			64-QAM	25.28	19.15	6.11
	26365	1882.5	QPSK	25.28	20.84	4.43
			16-QAM	25.30	20.01	5.26
			64-QAM	25.24	18.61	6.54
	26675	1913.5	QPSK	25.45	20.97	4.46
			16-QAM	25.52	20.60	4.87
			64-QAM	25.47	19.16	6.30
5M	26065	1852.5	QPSK	25.39	20.93	4.48
			16-QAM	25.40	20.27	5.00
			64-QAM	25.32	18.97	6.26
	26365	1882.5	QPSK	25.38	20.78	4.48
			16-QAM	25.43	19.99	5.39
			64-QAM	25.26	18.63	6.54
	26665	1912.5	QPSK	25.56	21.00	4.54
			16-QAM	25.66	20.72	4.91
			64-QAM	25.46	19.11	6.30

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
10M	26090	1855	QPSK	25.48	20.91	4.52
			16-QAM	25.53	20.43	5.04
			64-QAM	25.54	19.17	6.30
	26365	1882.5	QPSK	25.41	20.88	4.48
			16-QAM	25.45	20.43	5.00
			64-QAM	25.36	18.99	6.24
	26640	1910	QPSK	25.32	21.02	4.22
			16-QAM	25.23	20.62	4.57
			64-QAM	25.12	19.10	5.93
15M	26115	1857.5	QPSK	25.78	21.03	4.74
			16-QAM	25.91	20.57	5.20
			64-QAM	25.69	19.19	6.37
	26365	1882.5	QPSK	25.47	20.97	4.48
			16-QAM	25.46	20.19	5.26
			64-QAM	25.50	19.27	6.20
	26615	1907.5	QPSK	24.93	21.00	3.96
			16-QAM	24.99	20.43	4.46
			64-QAM	24.81	19.20	5.61
20M	26140	1860	QPSK	25.86	20.95	4.85
			16-QAM	25.86	20.43	5.37
			64-QAM	25.73	18.71	6.85
	26365	1882.5	QPSK	25.48	20.96	4.48
			16-QAM	25.47	20.39	5.02
			64-QAM	25.41	18.82	6.46
	26590	1905	QPSK	25.21	21.14	4.02
			16-QAM	25.14	20.15	4.91
			64-QAM	25.04	19.16	5.76

B25_CH26047_1.4M_1RB2_QPSK_Ratio



Date: 29.AUG.2020 12:15:22

B25_CH26047_1.4M_1RB2_16-QAM_Ratio



Date: 29.AUG.2020 12:14:55

B25_CH26047_1.4M_1RB2_64-QAM_Ratio



Date: 29.AUG.2020 12:14:01

B25_CH26365_1.4M_1RB2_QPSK_Ratio



Date: 29.AUG.2020 12:10:52

B25_CH26365_1.4M_1RB2_16-QAM_Ratio



Date: 29.AUG.2020 12:12:12

B25_CH26365_1.4M_1RB2_64-QAM_Ratio



Date: 29.AUG.2020 12:12:45

B25_CH26683_1.4M_1RB2_QPSK_Ratio



Date: 29.AUG.2020 12:37:56

B25_CH26683_1.4M_1RB2_16-QAM_Ratio



Date: 29.AUG.2020 12:46:53

B25_CH26683_1.4M_1RB2_64-QAM_Ratio



Date: 29.AUG.2020 12:47:17

B25_CH26055_3M_1RB7_QPSK_Ratio



Date: 29.AUG.2020 13:18:01

B25_CH26055_3M_1RB7_16-QAM_Ratio



Date: 29.AUG.2020 13:19:29

B25_CH26055_3M_1RB7_64-QAM_Ratio



Date: 29.AUG.2020 13:19:46

B25_CH26365_3M_1RB7_QPSK_Ratio



Date: 29.AUG.2020 13:02:30

B25_CH26365_3M_1RB7_16-QAM_Ratio



Date: 29.AUG.2020 12:59:13

B25_CH26365_3M_1RB7_64-QAM_Ratio



Date: 29.AUG.2020 12:57:27

B25_CH26675_3M_1RB7_QPSK_Ratio



Date: 29.AUG.2020 13:20:50

B25_CH26675_3M_1RB7_16-QAM_Ratio



Date: 29.AUG.2020 13:20:35

B25_CH26675_3M_1RB7_64-QAM_Ratio



Date: 29.AUG.2020 13:20:17

B25_CH26065_5M__1RB12_QPSK_Ratio



Date: 29.AUG.2020 16:25:37

B25_CH26065_5M_1RB12_16-QAM_Ratio



Date: 29.AUG.2020 16:25:07

B25_CH26065_5M_1RB12_64-QAM_Ratio



Date: 29.AUG.2020 16:21:55

B25_CH26365_5M_1RB12_QPSK_Ratio



Date: 29.AUG.2020 14:03:08

B25_CH26365_5M_1RB12_16-QAM_Ratio



Date: 29.AUG.2020 14:03:28

B25_CH26365_5M_1RB12_64-QAM_Ratio



Date: 29.AUG.2020 14:03:42

B25_CH26665_5M_1RB12_QPSK_Ratio



Date: 29.AUG.2020 16:30:34

B25_CH26665_5M_1RB12_16-QAM_Ratio



Date: 29.AUG.2020 16:30:59

B25_CH26665_5M_1RB12_64-QAM_Ratio



Date: 29.AUG.2020 16:34:28

B25_CH26090_10M_1RB24_QPSK_Ratio



Date: 29.AUG.2020 17:02:00

B25_CH26090_10M_1RB24_16-QAM_Ratio



Date: 29.AUG.2020 17:02:18

B25_CH26090_10M_1RB24_64-QAM_Ratio



Date: 29.AUG.2020 17:02:41

B25_CH26365_10M_1RB24_QPSK_Ratio



Date: 29.AUG.2020 16:43:49

B25_CH26365_10M_1RB24_16-QAM_Ratio



Date: 29.AUG.2020 16:43:20

B25_CH26365_10M_1RB24_64-QAM_Ratio



Date: 29.AUG.2020 16:39:14

B25_CH26640_10M_1RB24_QPSK_Ratio



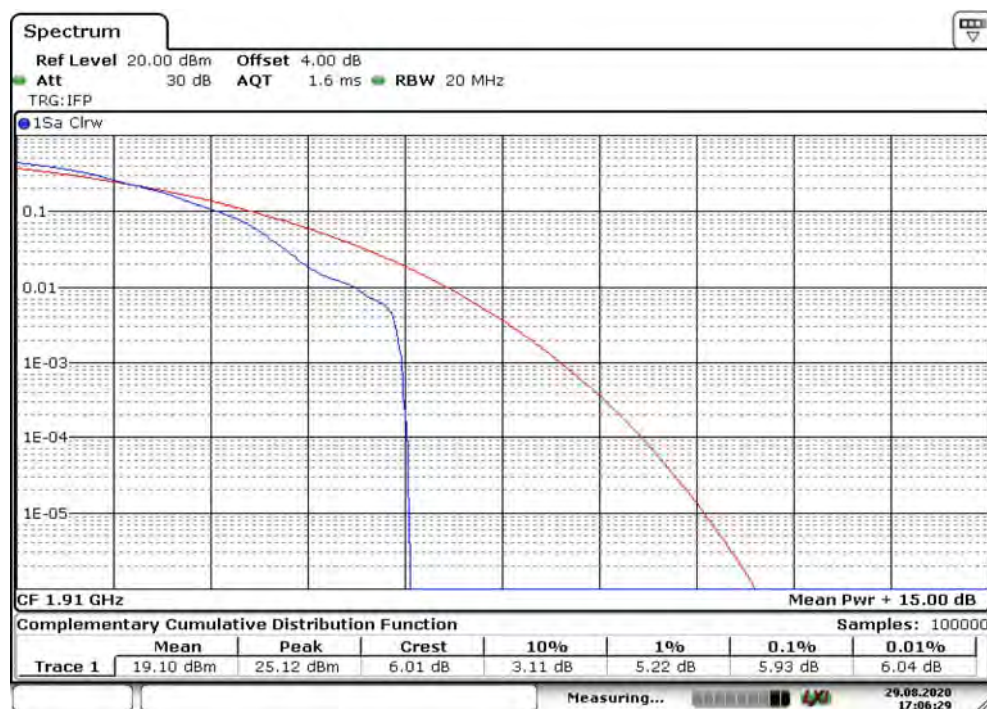
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B25_CH26640_10M_1RB24_64-QAM_Ratio



Date: 29.AUG.2020 17:06:30

B25_CH26115_15M_1RB37_QPSK_Ratio



Date: 29.AUG.2020 17:30:51

B25_CH26115_15M_1RB37_16-QAM_Ratio



Date: 29.AUG.2020 17:30:36

B25_CH26115_15M_1RB37_64-QAM_Ratio



Date: 29.AUG.2020 17:27:01

B25_CH26365_15M_1RB37_QPSK_Ratio



Date: 29.AUG.2020 17:22:43

B25_CH26365_15M_1RB37_16-QAM_Ratio



Date: 29.AUG.2020 17:23:09

B25_CH26365_15M_1RB37_64-QAM_Ratio



Date: 29.AUG.2020 17:23:53

B25_CH26615_15M_1RB37_QPSK_Ratio



Date: 29.AUG.2020 17:31:25

B25_CH26615_15M_1RB37_16-QAM_Ratio



Date: 29.AUG.2020 17:31:44

B25_CH26615_15M_1RB37_64-QAM_Ratio



Date: 29.AUG.2020 17:32:17

B25_CH26140_20M_1RB49_QPSK_Ratio



Date: 29.AUG.2020 17:36:58

B25_CH26140_20M_1RB49_16-QAM_Ratio



Date: 29.AUG.2020 17:37:12

B25_CH26140_20M_1RB49_64-QAM_Ratio



Date: 29.AUG.2020 17:37:26

B25_CH26365_20M_1RB49_QPSK_Ratio



Date: 29.AUG.2020 17:36:02

B25_CH26365_20M_1RB49_16-QAM_Ratio



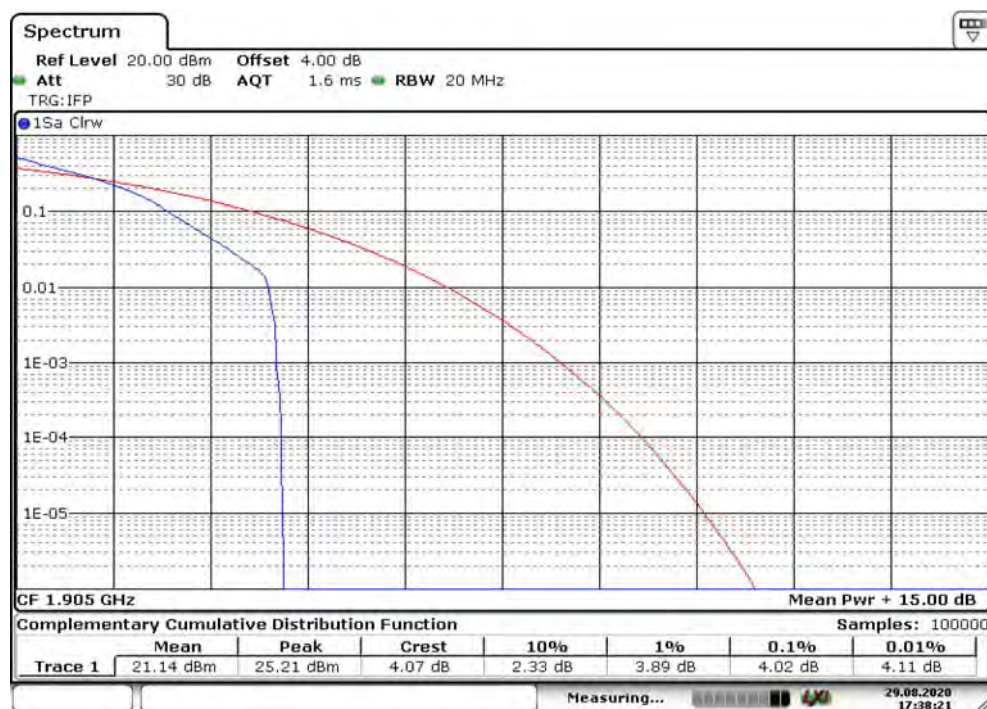
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B25_CH26365_20M_1RB49_64-QAM_Ratio



Date: 29.AUG.2020 17:35:16

B25_CH26590_20M_1RB49_QPSK_Ratio



Date: 29.AUG.2020 17:38:21

B25_CH26590_20M_1RB49_16-QAM_Ratio



Date: 29.AUG.2020 17:38:07

B25_CH26590_20M_1RB49_64-QAM_Ratio



Date: 29.AUG.2020 17:37:51

Product	Module		
Test Item	Peak To Average Ratio		
Test Mode	Mode 2: LTE Band 4/66		
Date of Test	2020/08/28	Test Site	SR12-H
Temperature(°C)	24	Humidity (%RH)	60

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
1.4M	131979	1710.7	QPSK	24.27	20.50	3.78
			16-QAM	24.32	19.65	4.65
			64-QAM	24.22	18.61	5.57
	132322	1745	QPSK	25.25	20.54	4.70
			16-QAM	25.39	19.96	5.37
			64-QAM	25.23	18.64	6.52
	132665	1779.3	QPSK	24.62	20.42	4.15
			16-QAM	24.77	19.98	4.72
			64-QAM	24.62	18.70	5.85
3M	131987	1711.5	QPSK	24.15	20.52	3.67
			16-QAM	24.20	20.13	4.09
			64-QAM	24.18	18.63	5.50
	132322	1745	QPSK	25.32	20.72	4.61
			16-QAM	25.43	20.55	4.87
			64-QAM	25.26	18.71	6.48
	132657	1778.5	QPSK	24.68	20.59	4.09
			16-QAM	24.68	20.22	4.46
			64-QAM	24.55	18.80	5.76
5M	131997	1712.5	QPSK	24.13	20.53	3.61
			16-QAM	24.20	19.84	4.26
			64-QAM	24.24	18.89	5.33
	132322	1745	QPSK	25.30	20.68	4.61
			16-QAM	25.49	20.14	5.17
			64-QAM	25.18	18.57	6.52
	132647	1777.5	QPSK	24.56	20.49	4.09
			16-QAM	24.64	20.18	4.48
			64-QAM	24.55	18.70	5.76

BW	Ch	Freq. (MHz)	Modulation	Peak (dBm)	Average (dBm)	PAPR (dB)
10M	132022	1715	QPSK	23.93	20.41	3.50
			16-QAM	23.97	19.57	4.35
			64-QAM	23.85	18.45	5.33
	132322	1745	QPSK	25.20	20.67	4.48
			16-QAM	25.35	20.00	5.33
			64-QAM	25.35	18.94	6.37
	132622	1775	QPSK	24.56	20.49	4.00
			16-QAM	24.41	20.03	4.37
			64-QAM	24.37	18.80	5.52
15M	132047	1717.5	QPSK	23.80	20.42	3.41
			16-QAM	23.81	20.01	3.83
			64-QAM	23.70	18.70	5.02
	132322	1745	QPSK	25.14	20.62	4.52
			16-QAM	25.26	20.38	4.85
			64-QAM	25.03	18.73	6.26
	132597	1772.5	QPSK	24.36	20.48	3.91
			16-QAM	24.34	19.64	4.65
			64-QAM	24.19	18.51	5.59
20M	132072	1720	QPSK	23.84	20.52	3.30
			16-QAM	23.77	19.94	3.80
			64-QAM	23.91	18.81	5.07
	132322	1745	QPSK	25.28	20.62	4.63
			16-QAM	25.47	20.52	4.91
			64-QAM	25.22	18.78	6.28
	132572	1770	QPSK	24.33	20.54	3.76
			16-QAM	24.32	19.79	4.52
			64-QAM	24.16	18.72	5.39