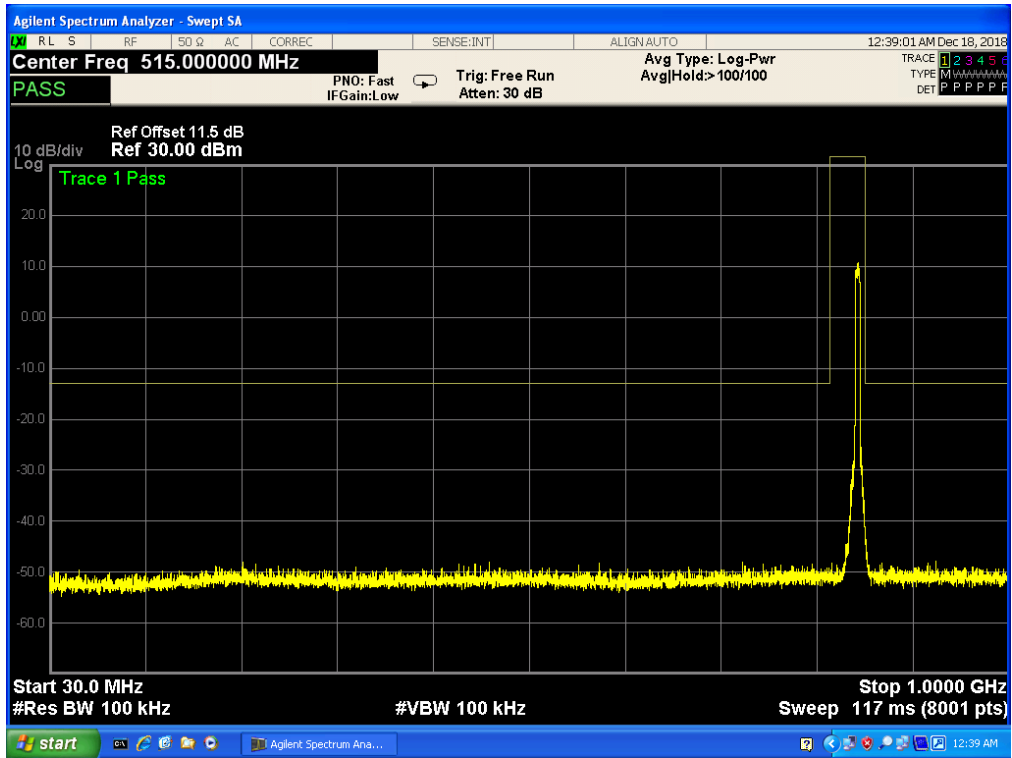
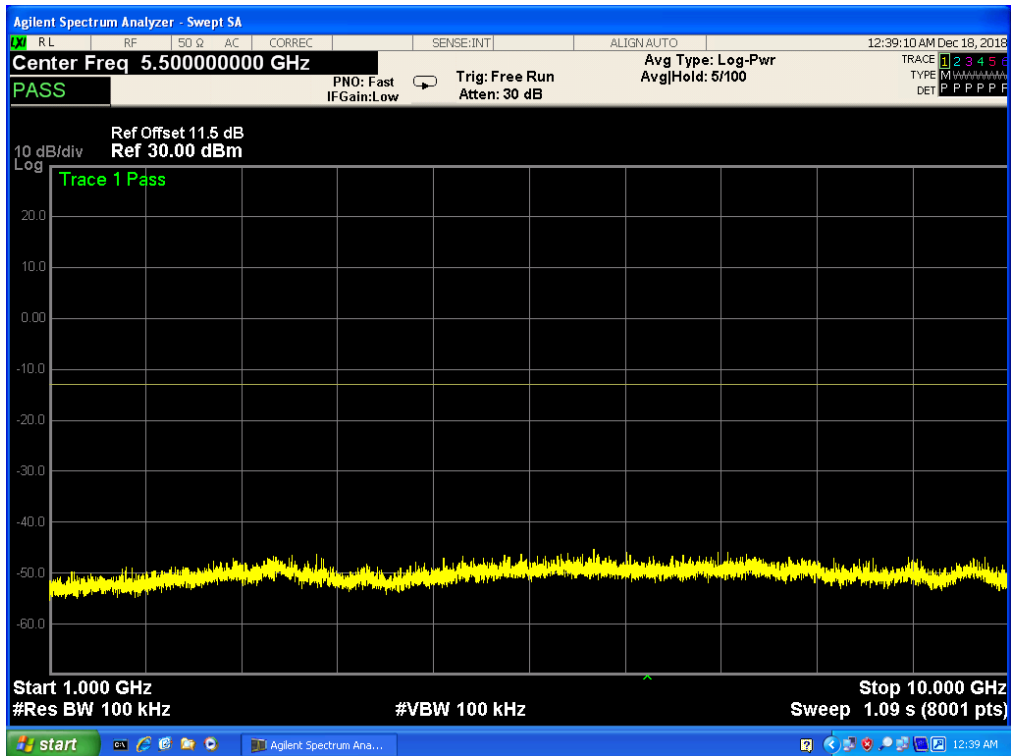


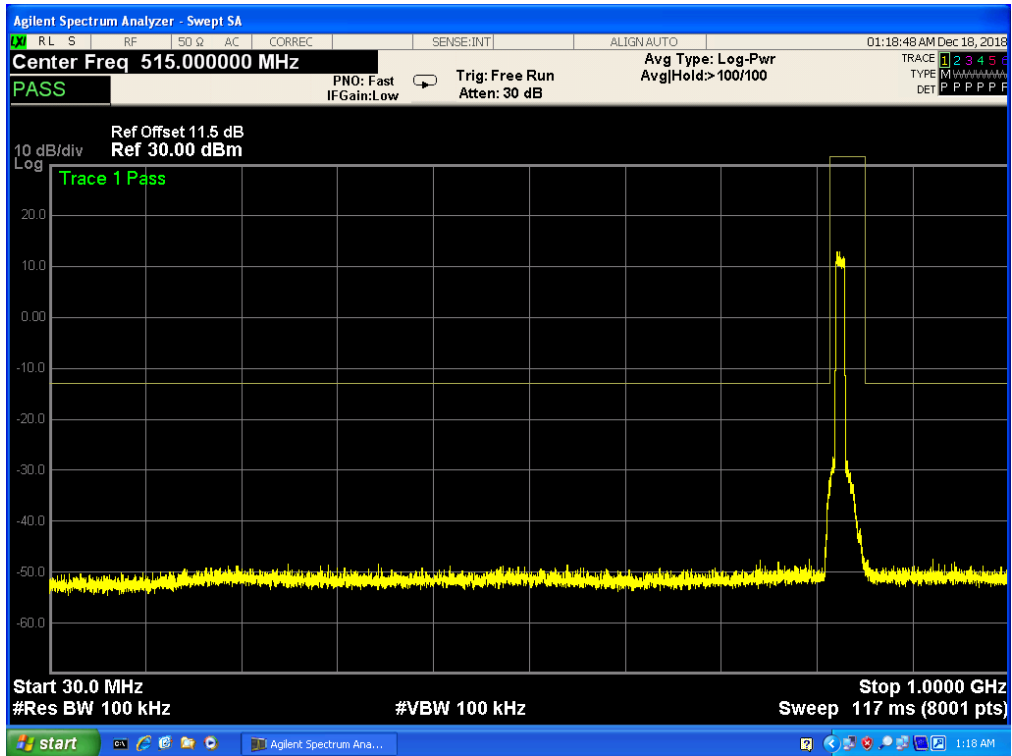
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



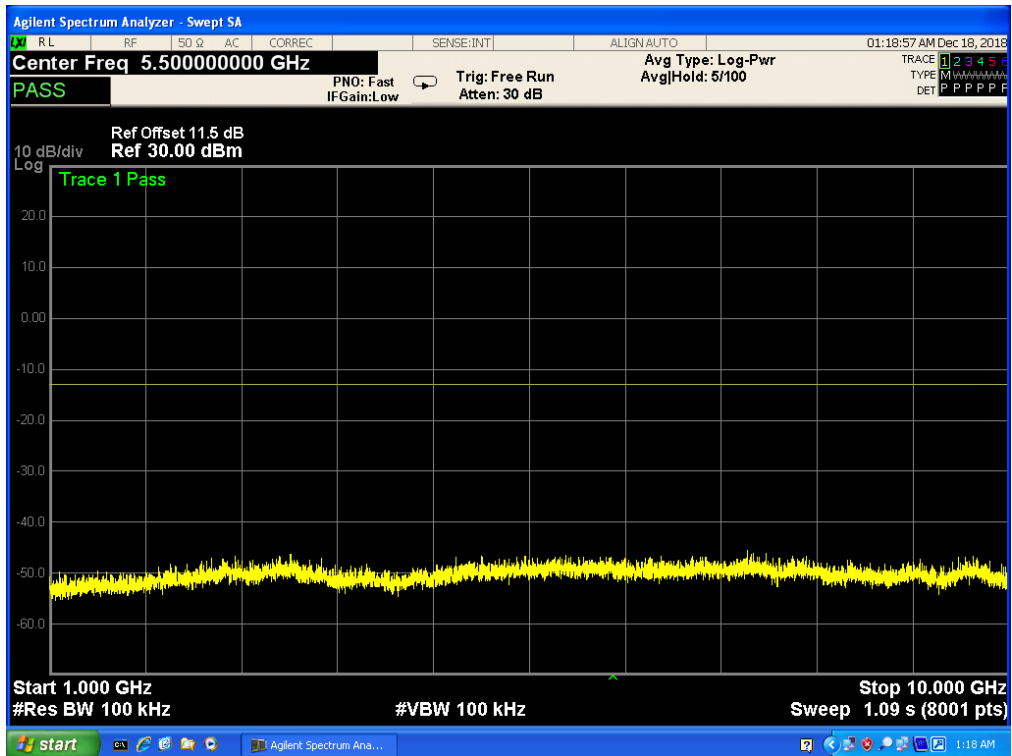
Band 5, UL Channel 20625, UL Frequency 846.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



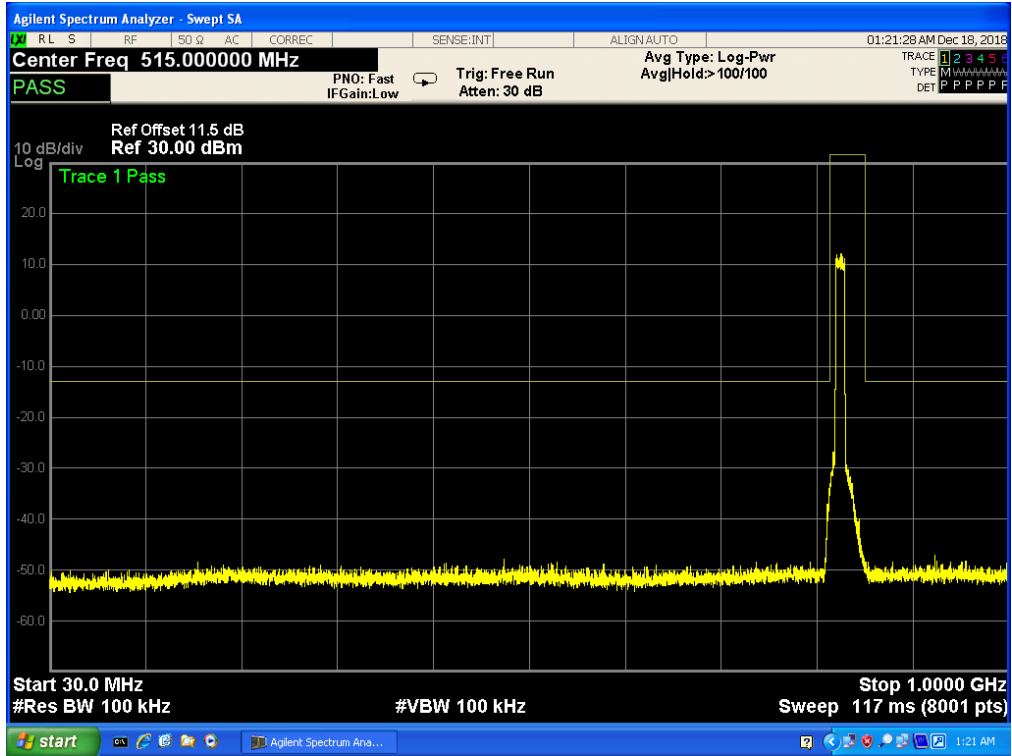
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



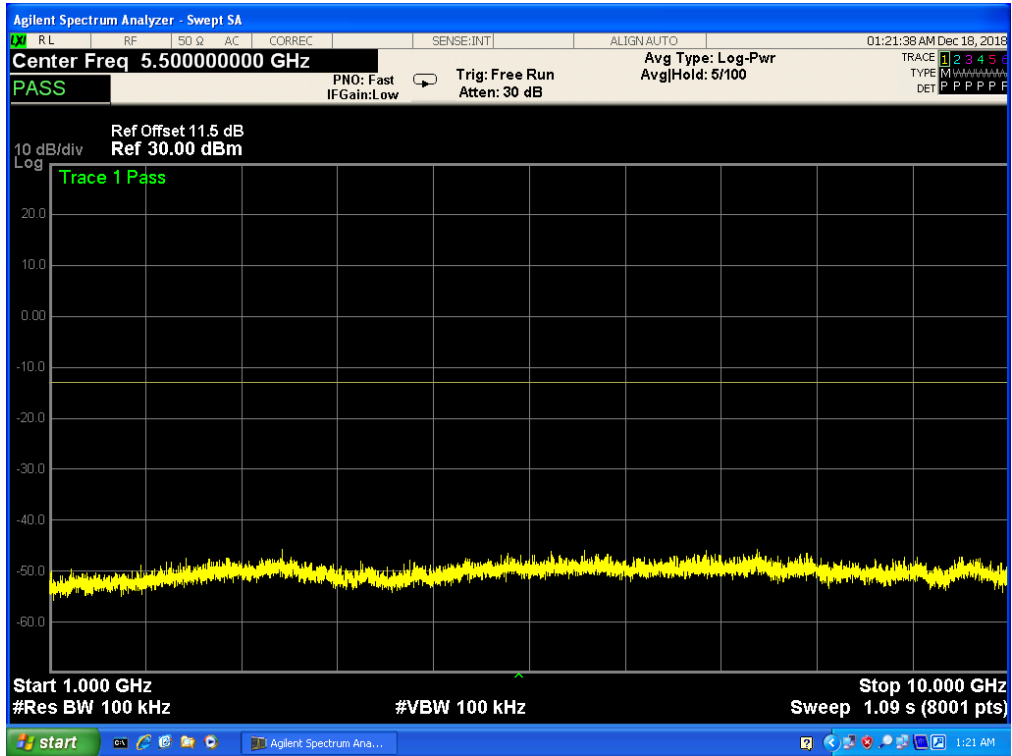
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



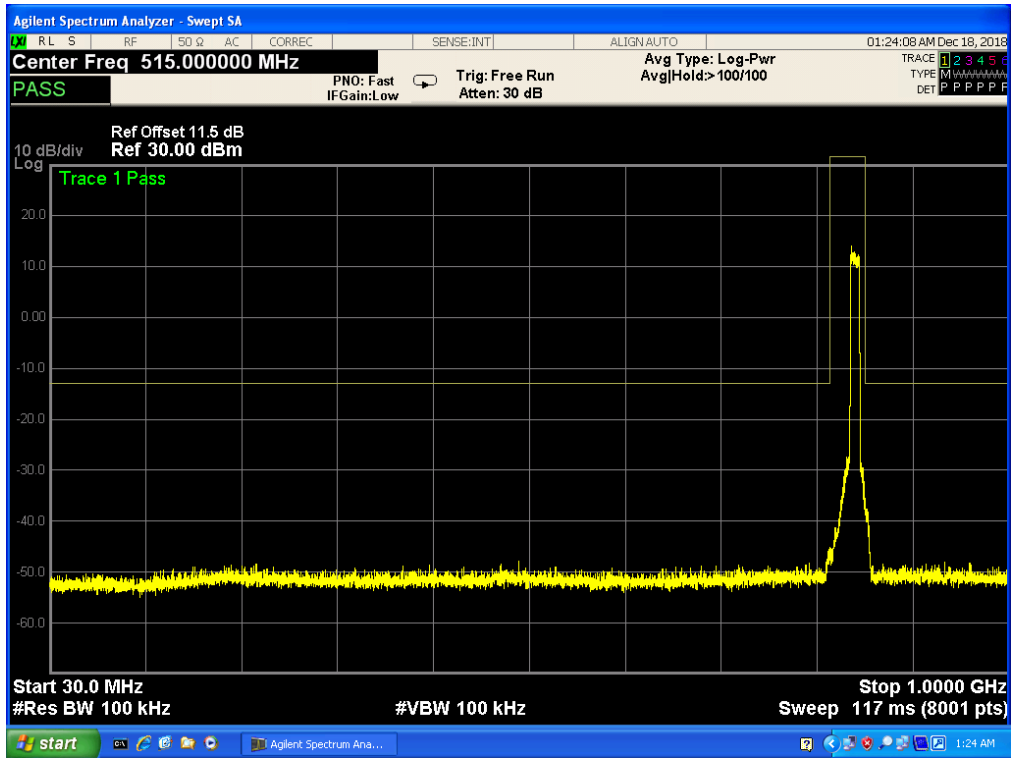
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



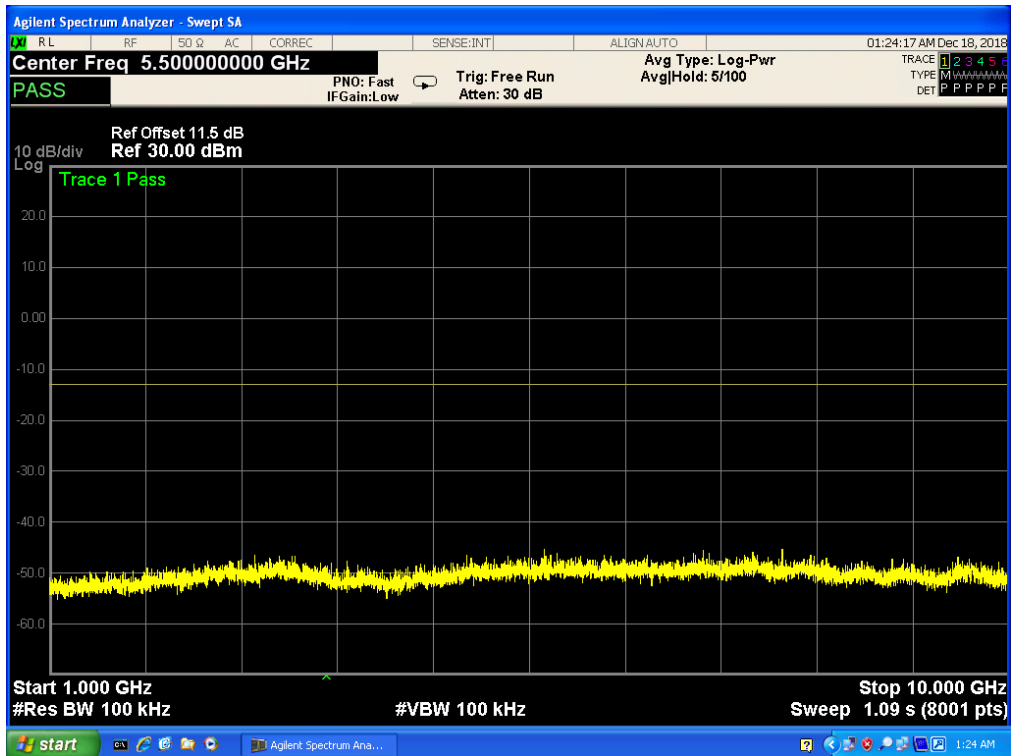
Band 5, UL Channel 20450, UL Frequency 829.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



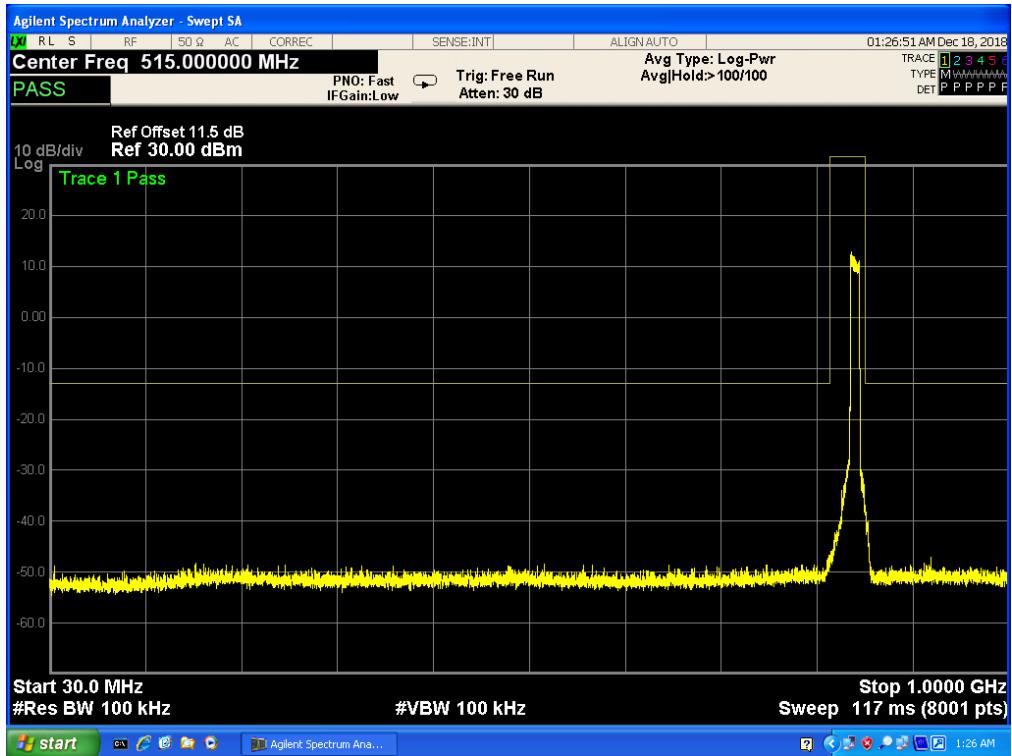
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



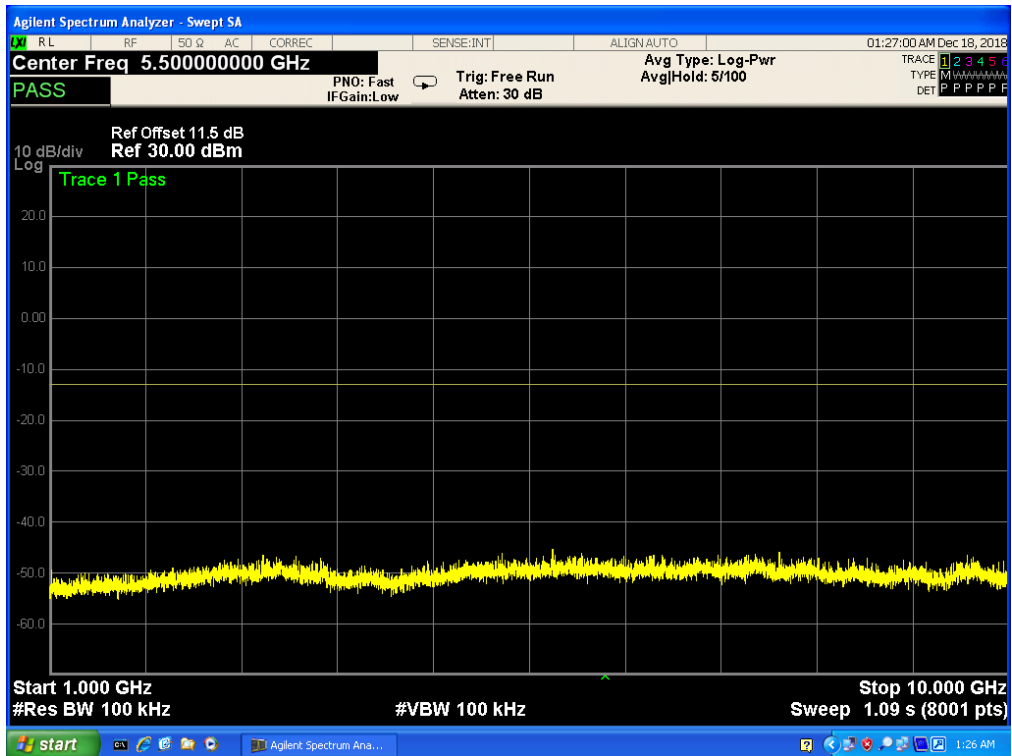
Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

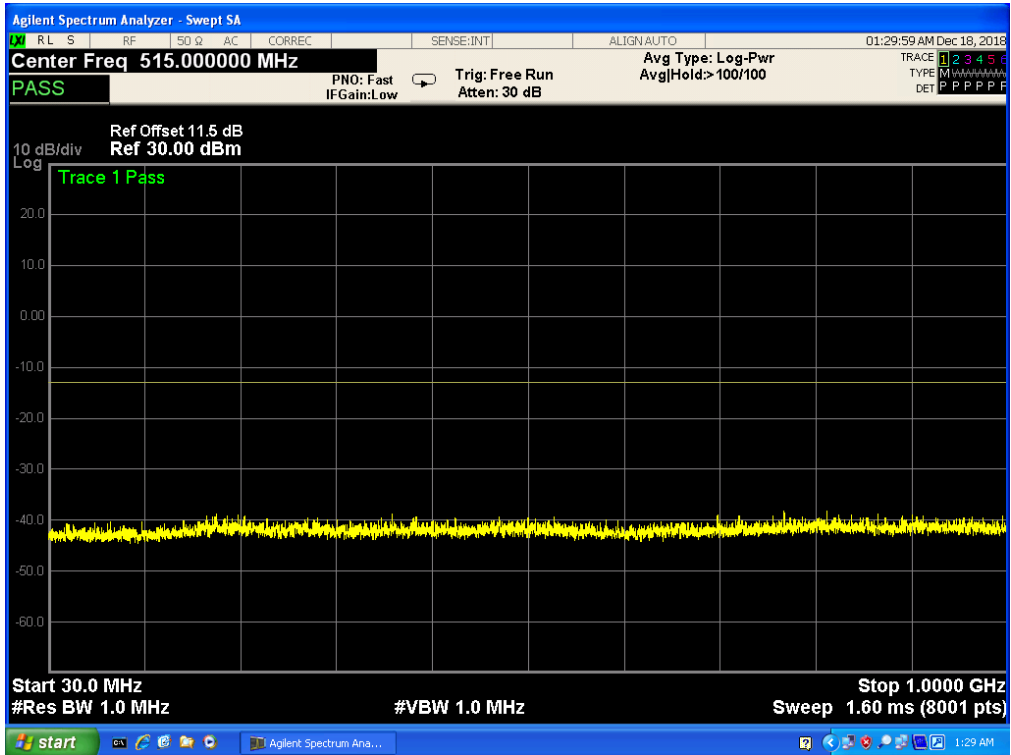


Band 5, UL Channel 20600, UL Frequency 844.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

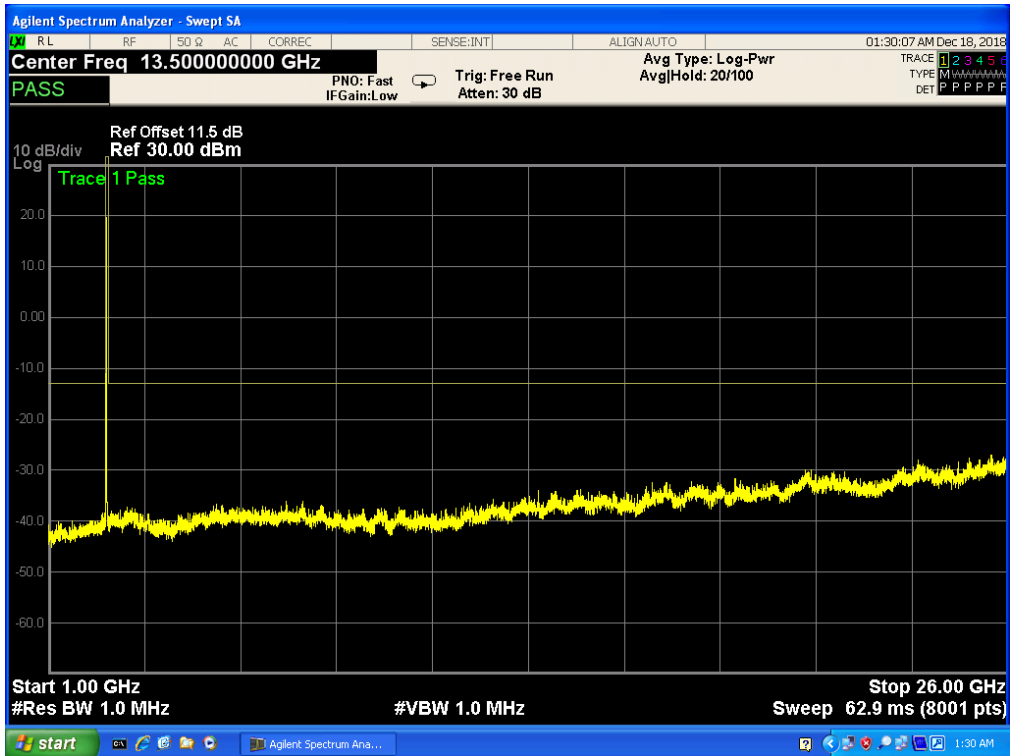


7.4 LTE BAND 7

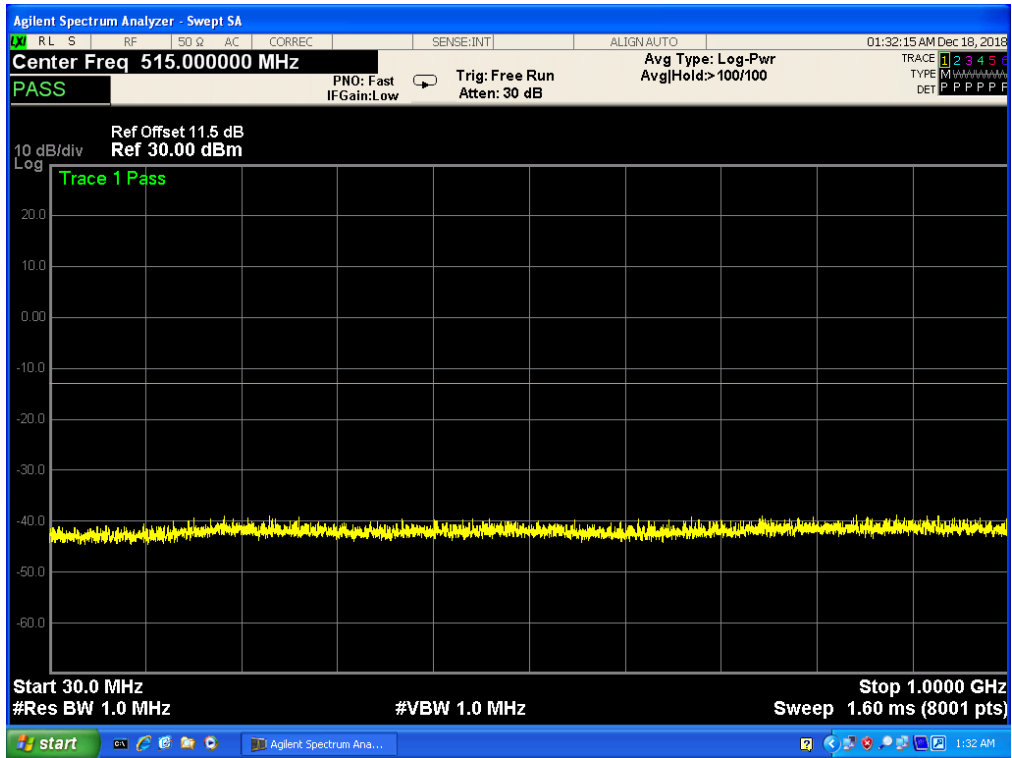
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



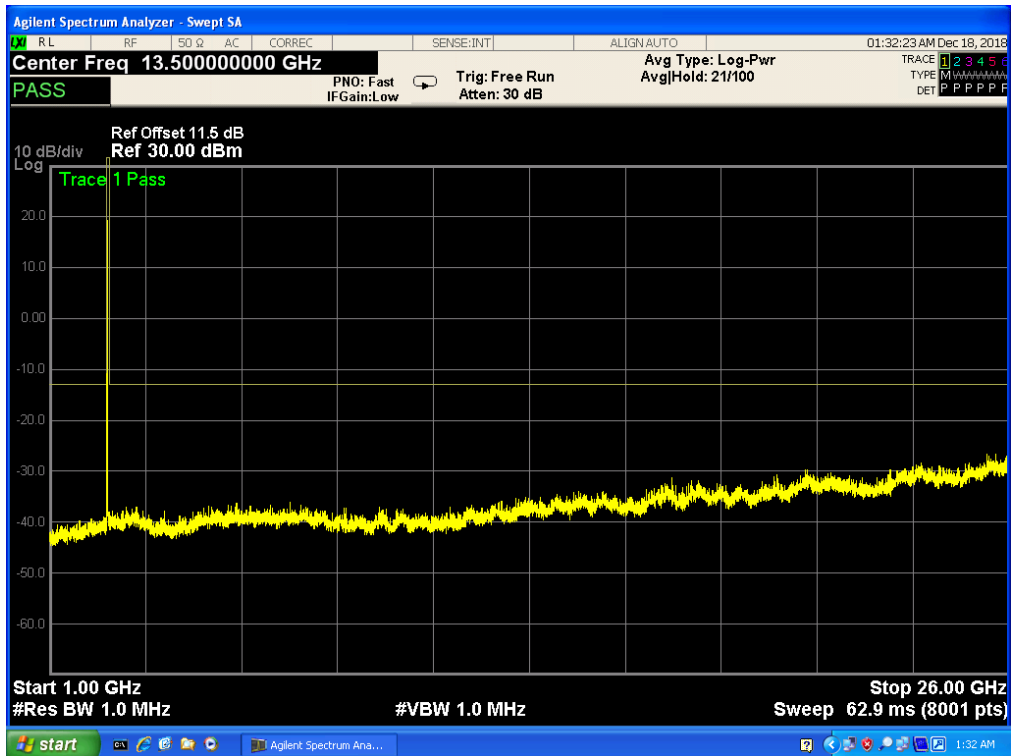
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



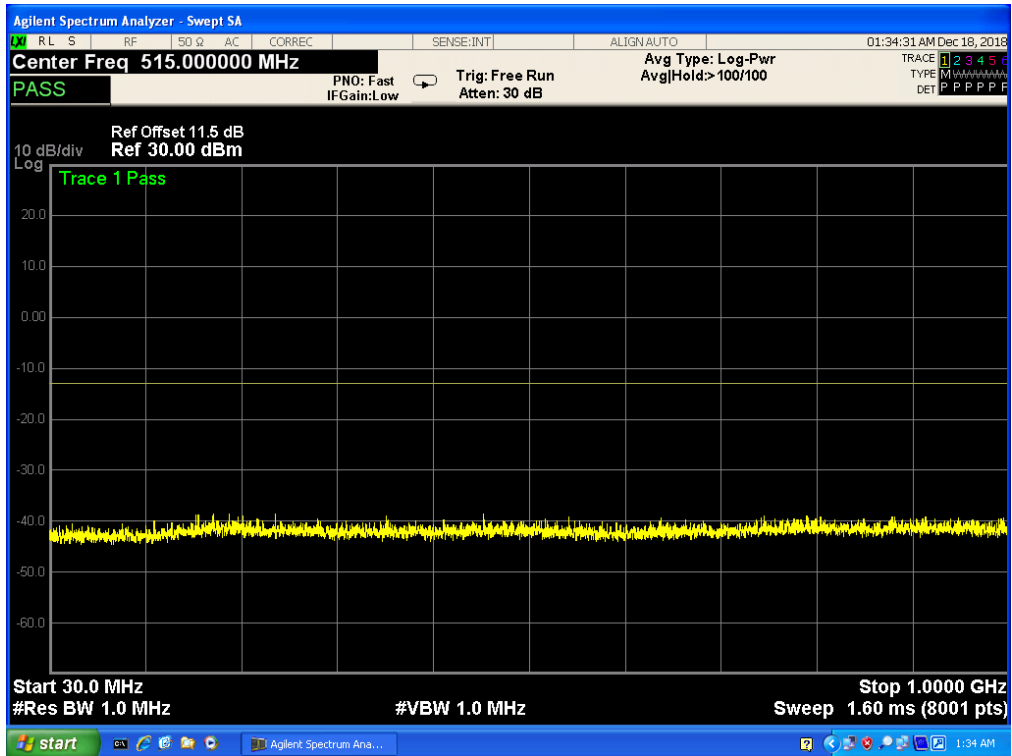
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



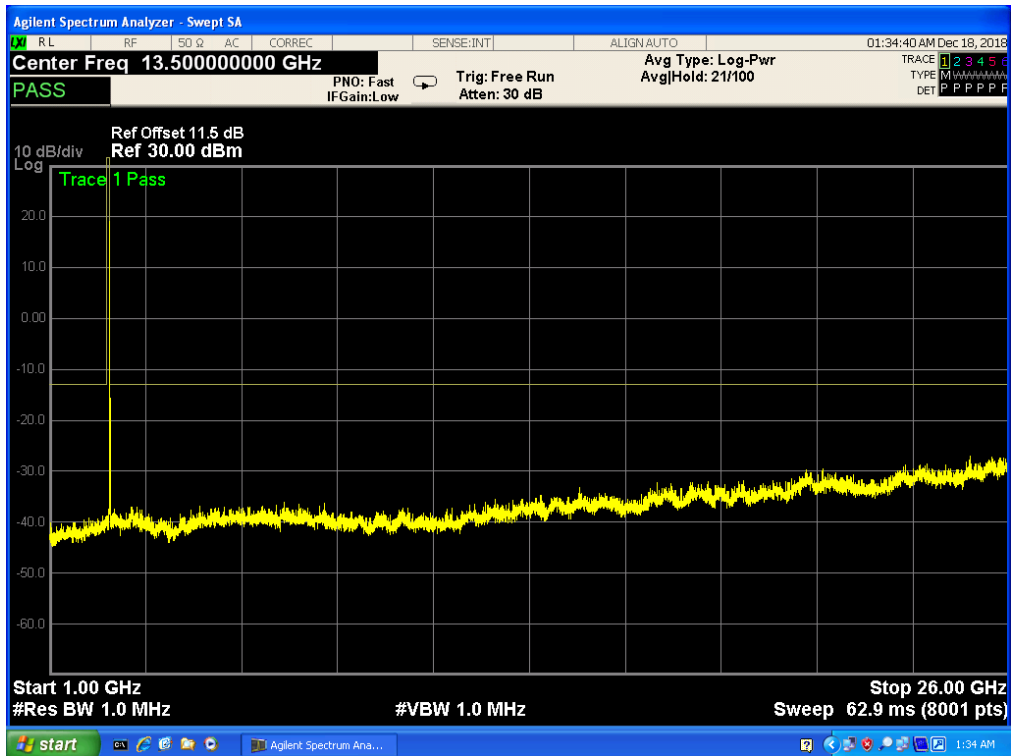
Band 7, UL Channel 20775, UL Frequency 2502.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



Band 7, UL Channel 21425, UL Frequency 2567.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK

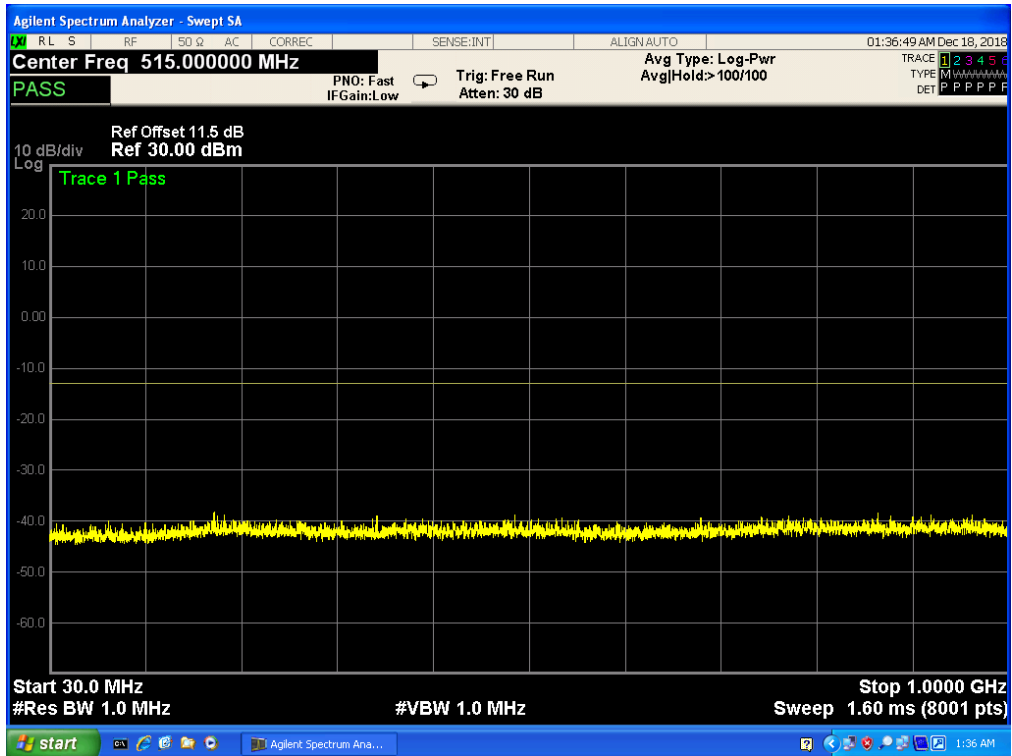


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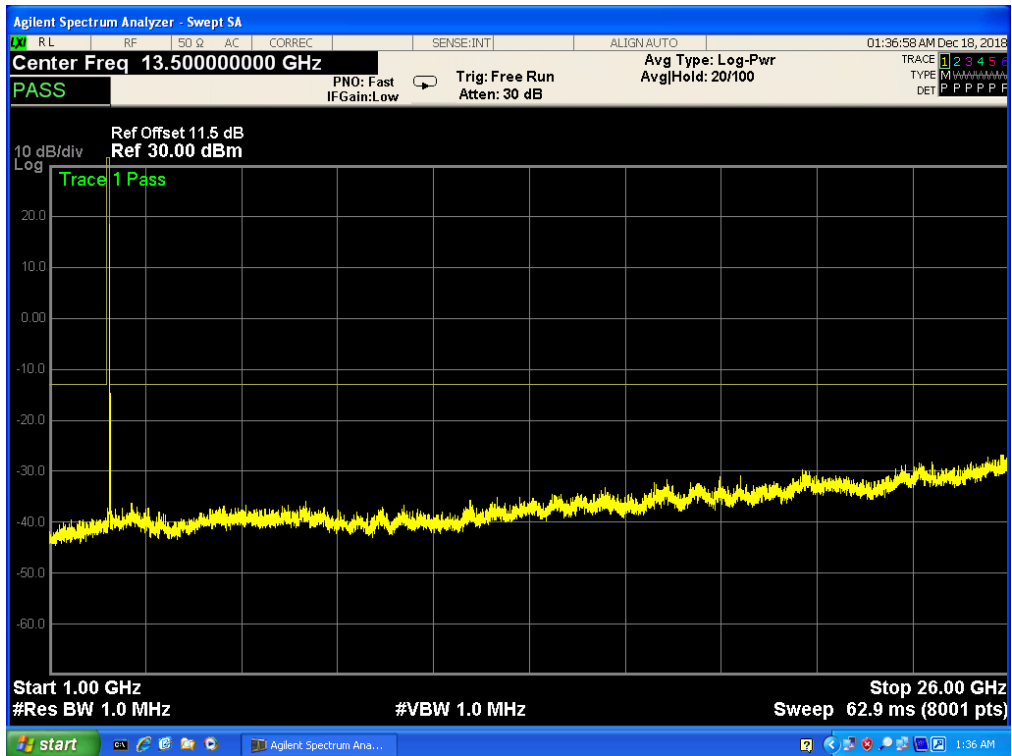




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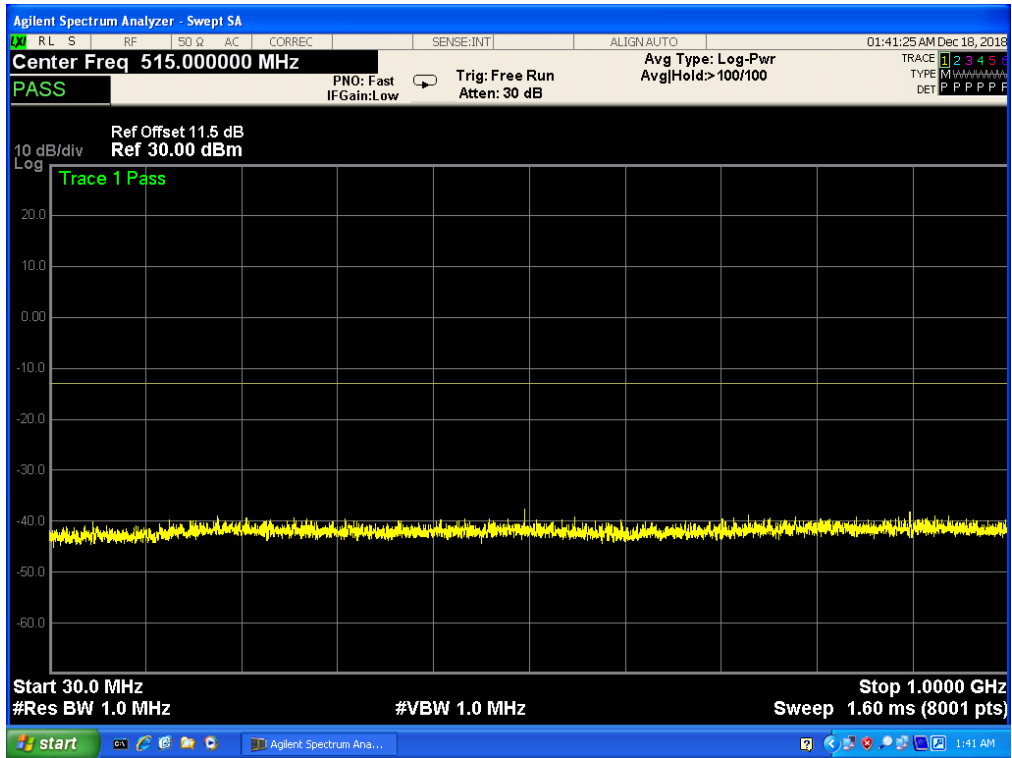


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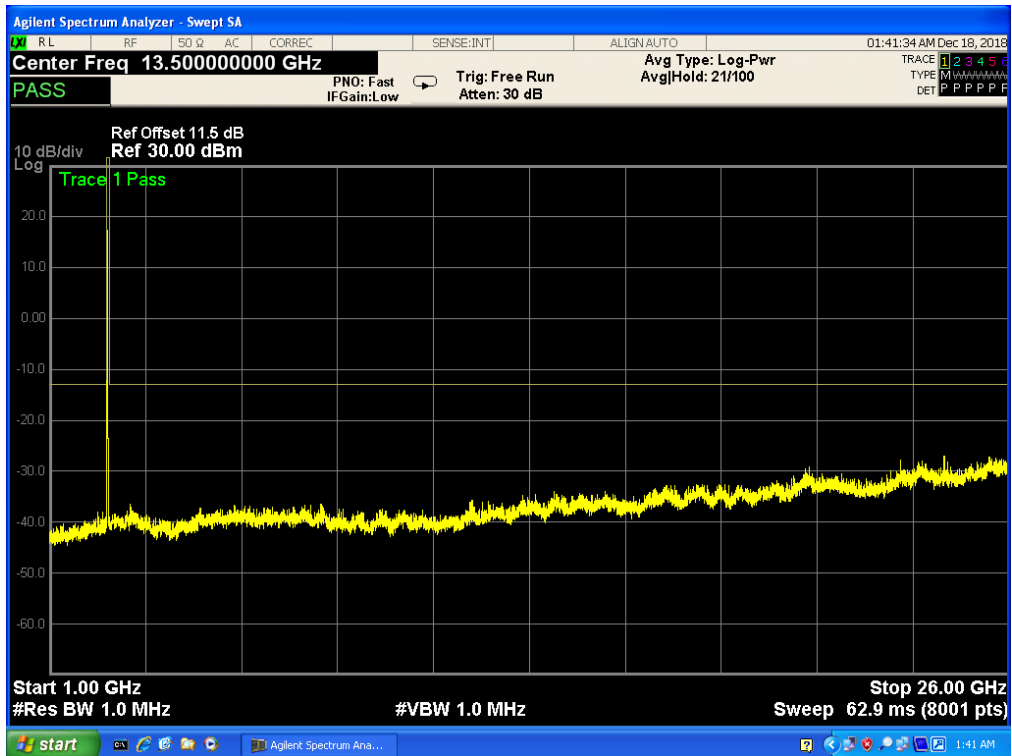




Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

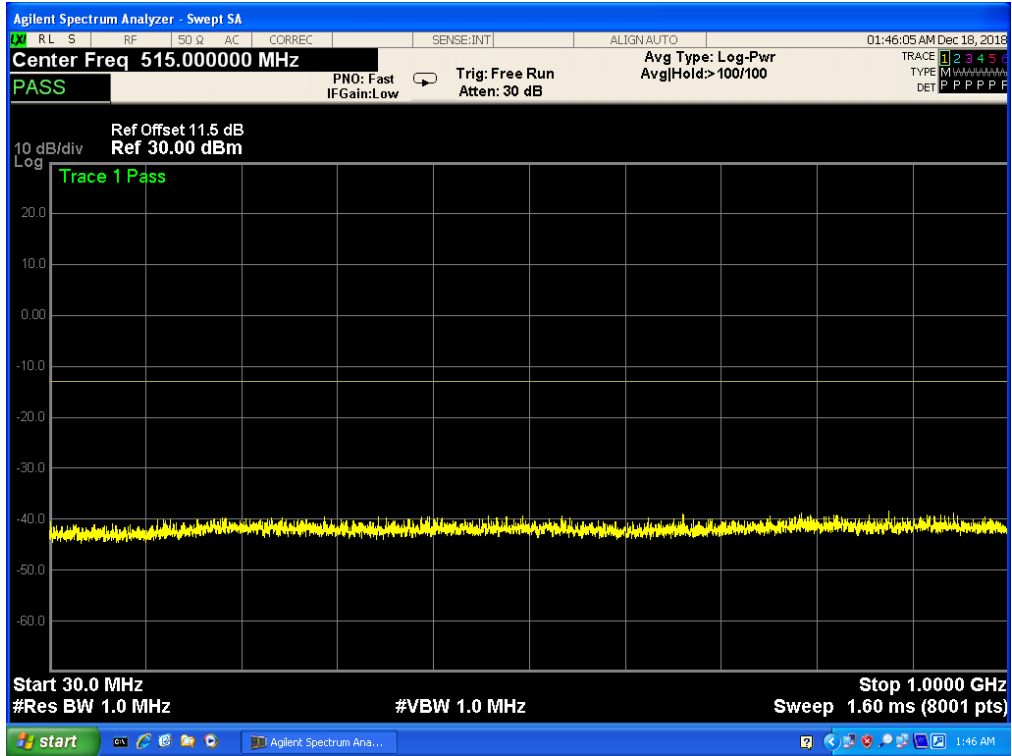


Band 7, UL Channel 20800, UL Frequency 2505.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

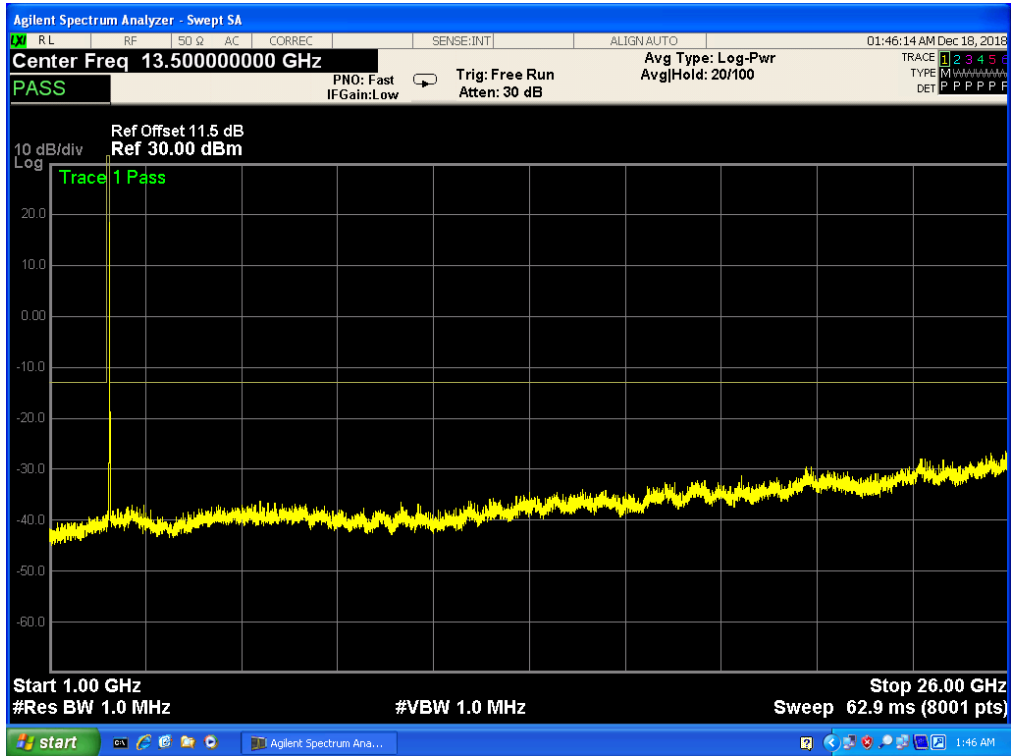




Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

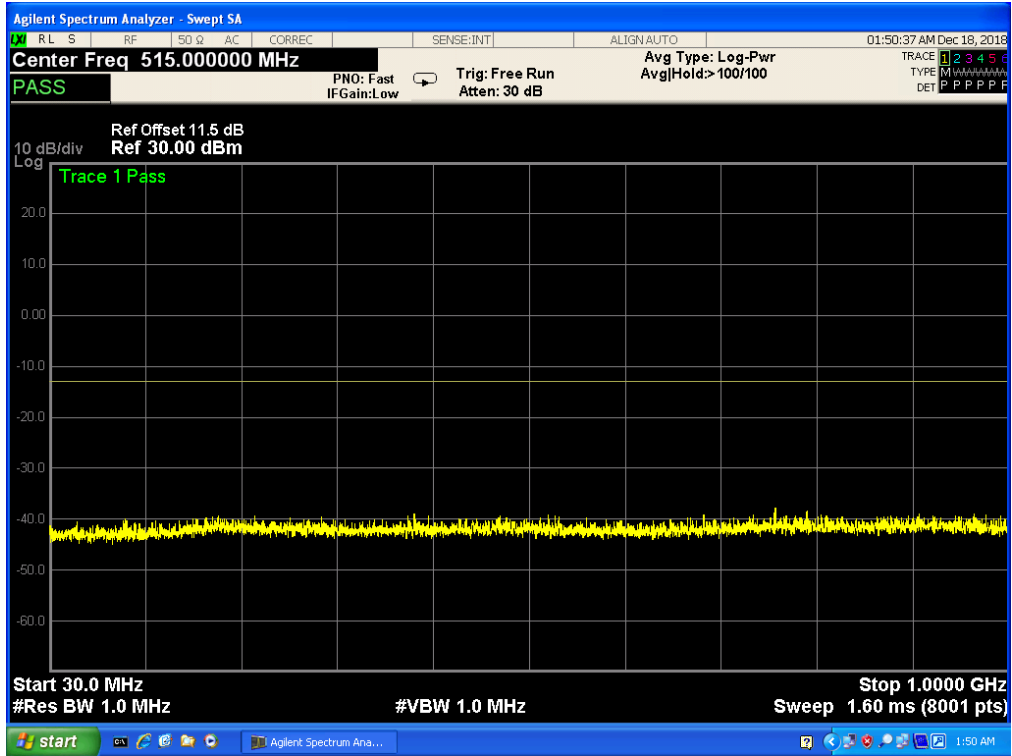


Band 7, UL Channel 21400, UL Frequency 2565.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

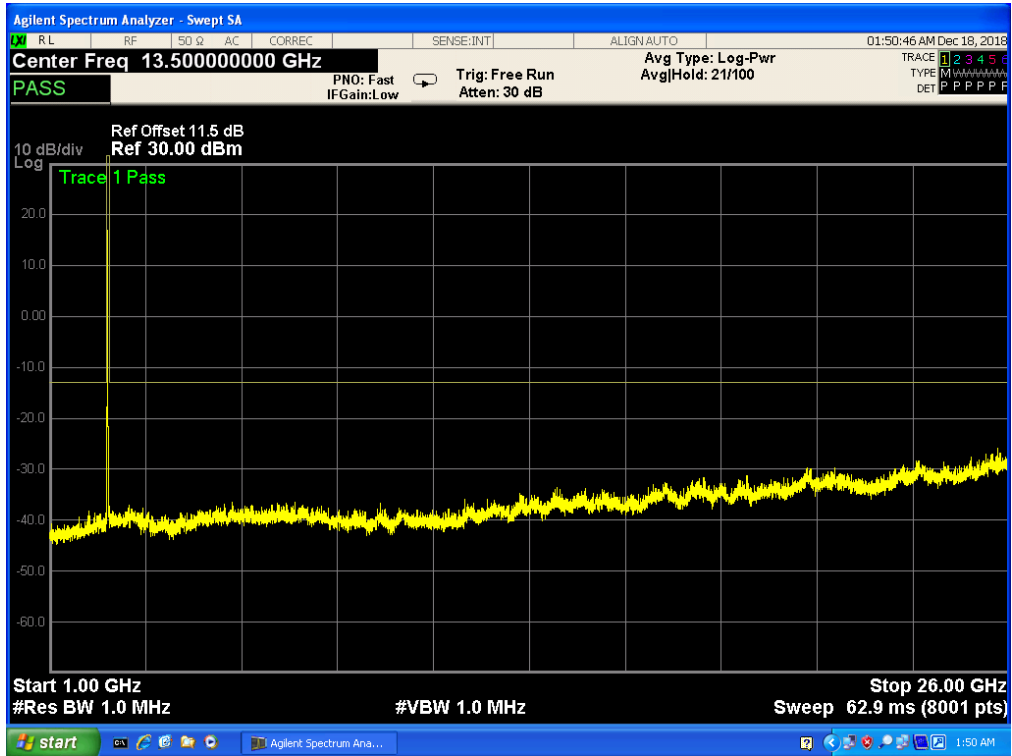




Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



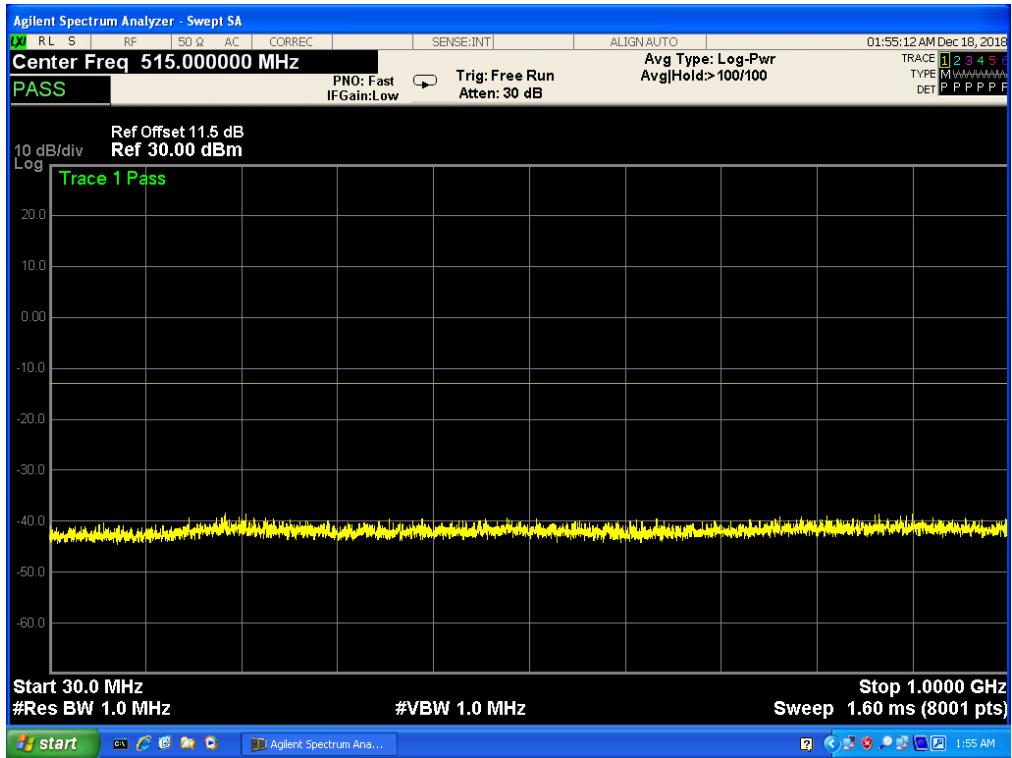
Band 7, UL Channel 20825, UL Frequency 2507.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



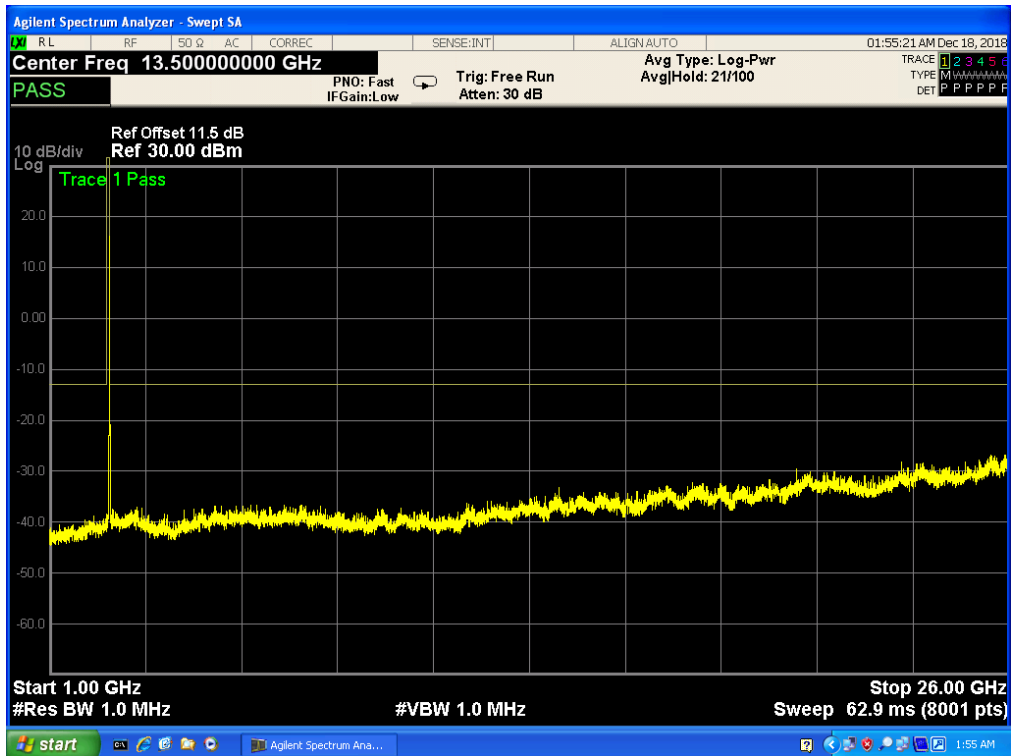




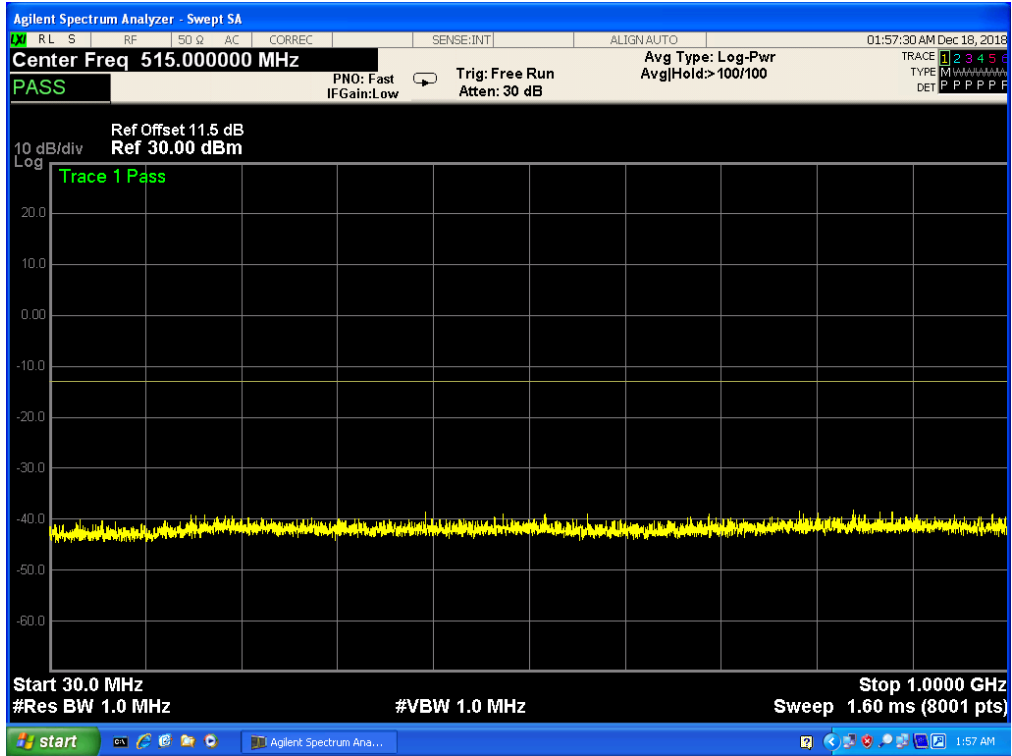
Band 7, UL Channel 21375, UL Frequency 2562.5, BW 15.0, NO. RB 75, RB POS. Low, 16-QAM



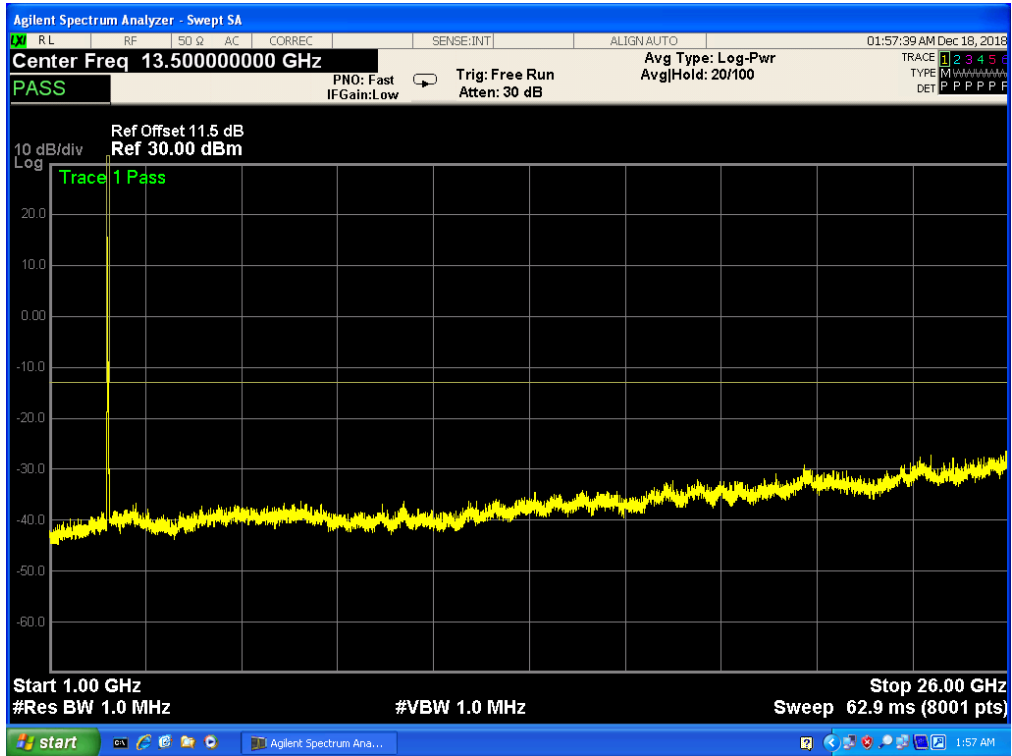
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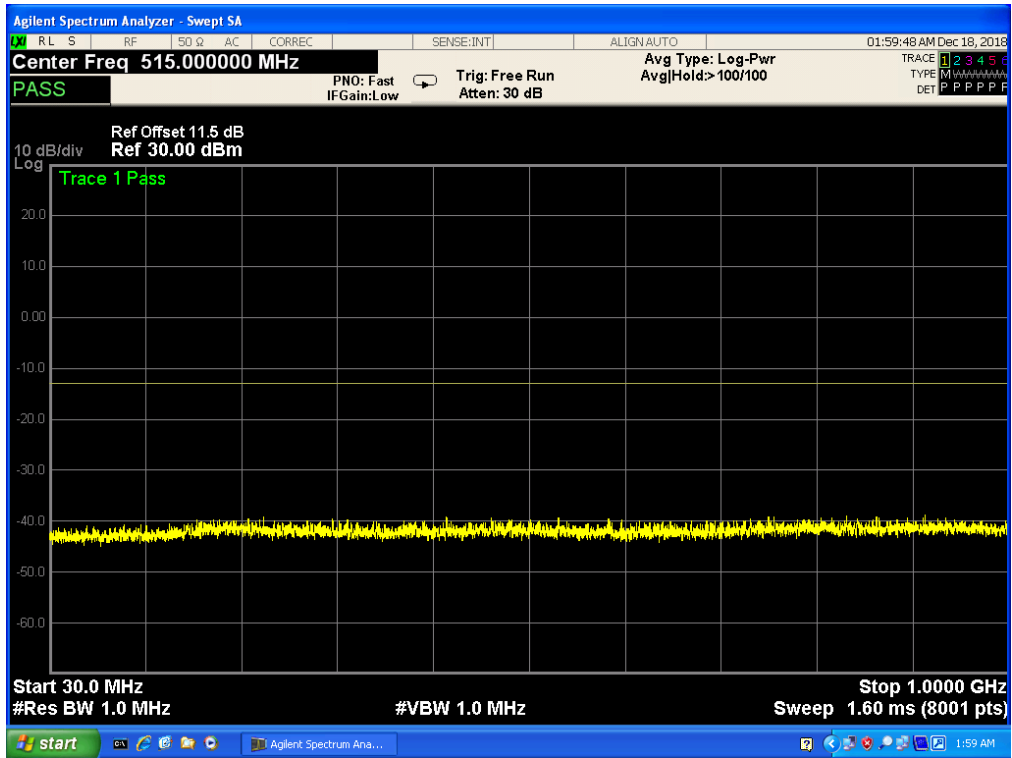
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



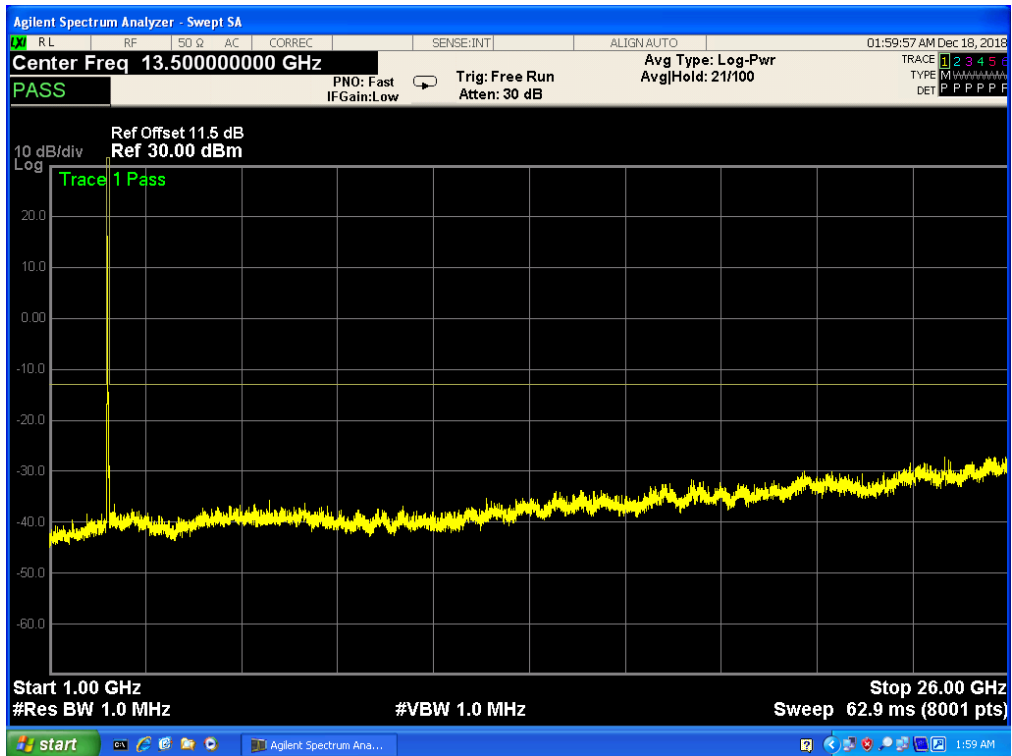
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



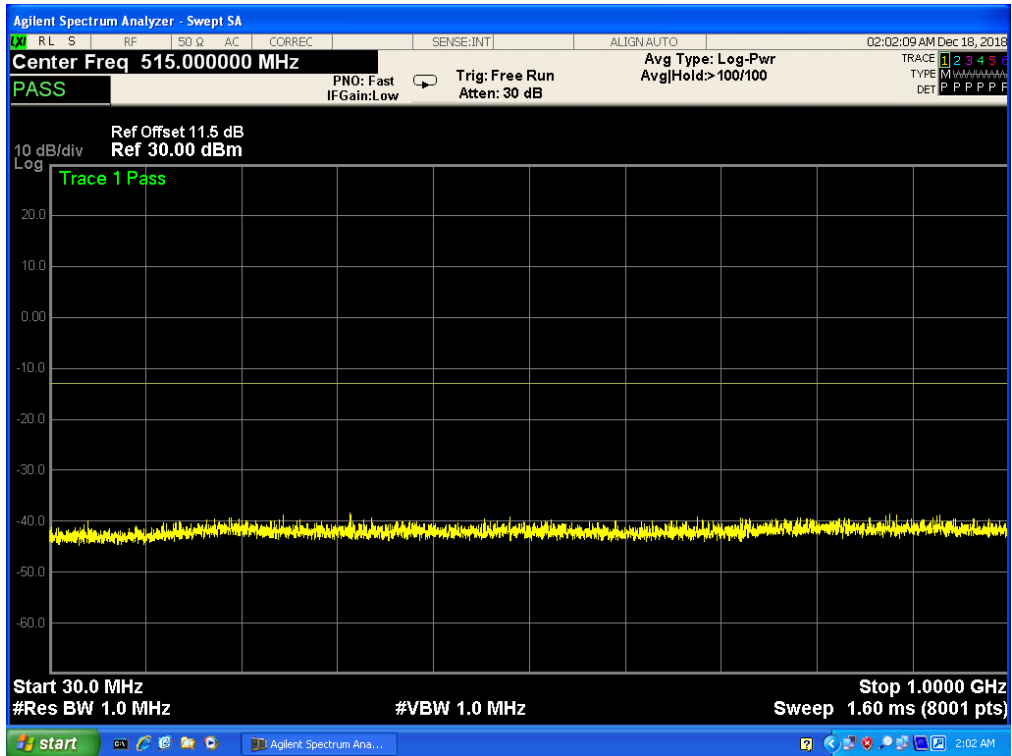
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



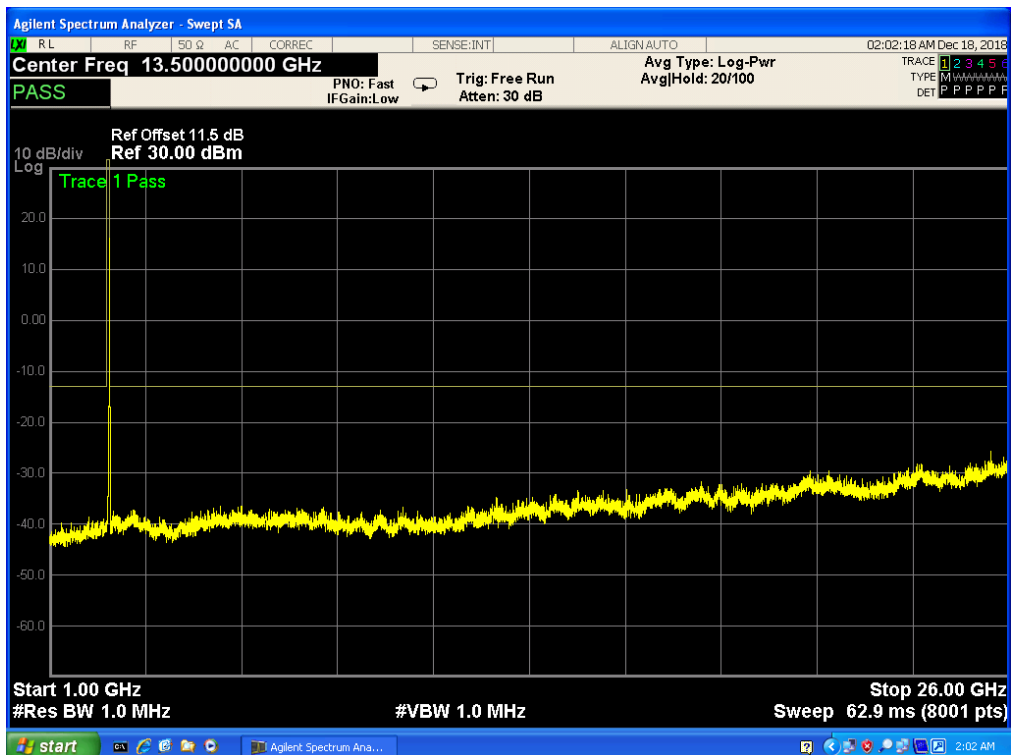
Band 7, UL Channel 20850, UL Frequency 2510.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM



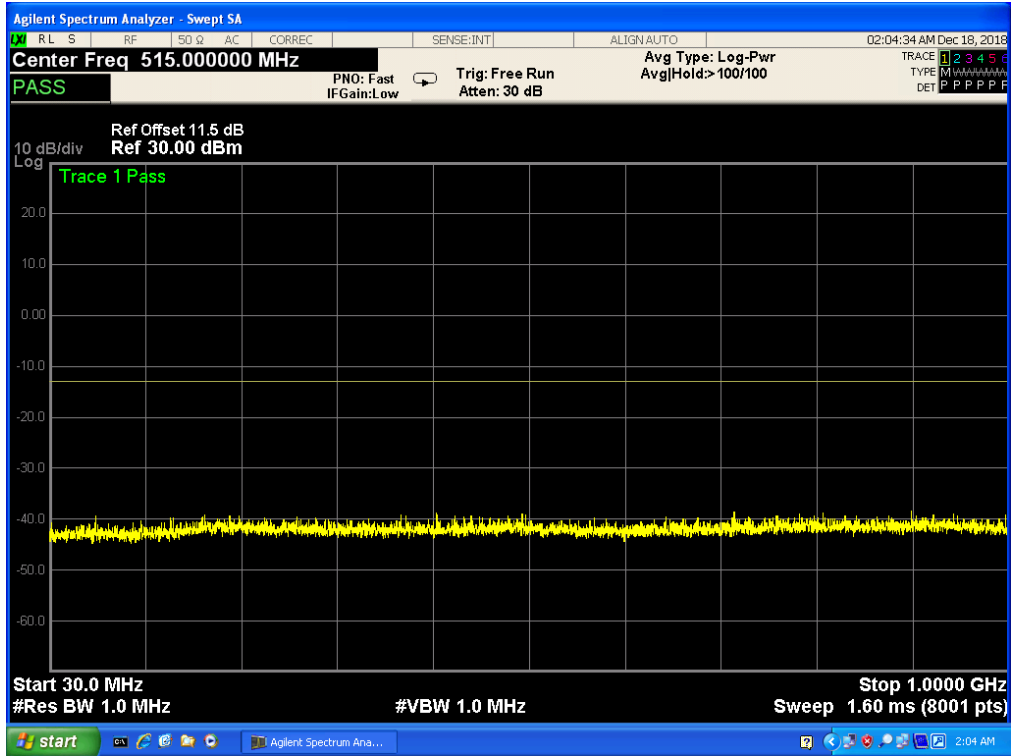
Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



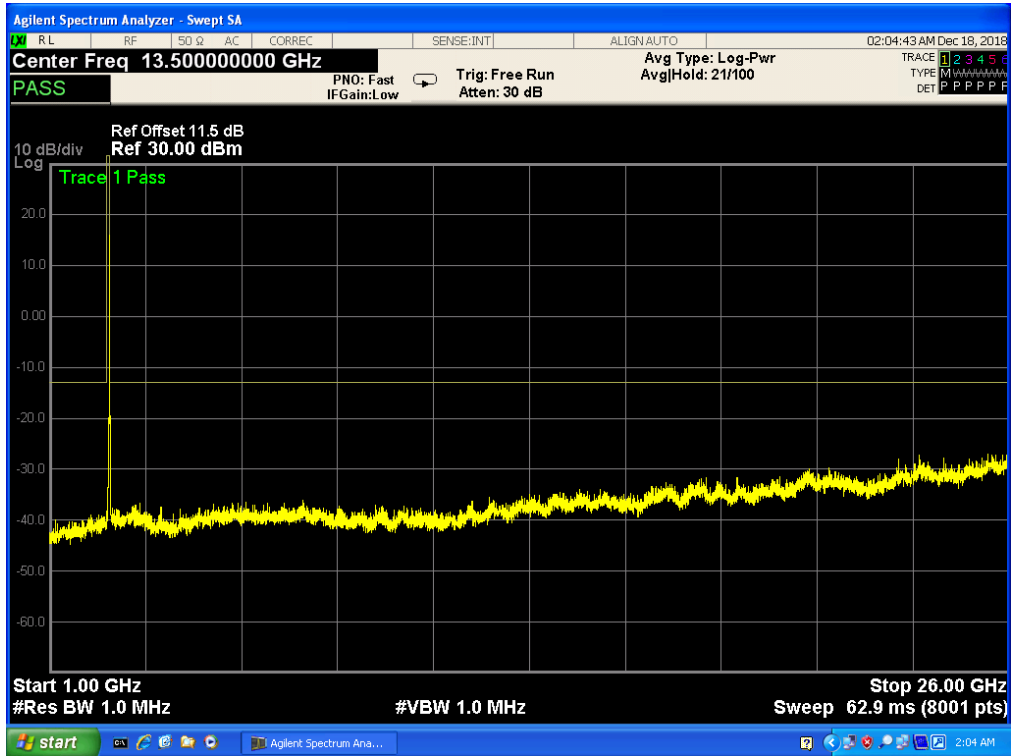
Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, QPSK



Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

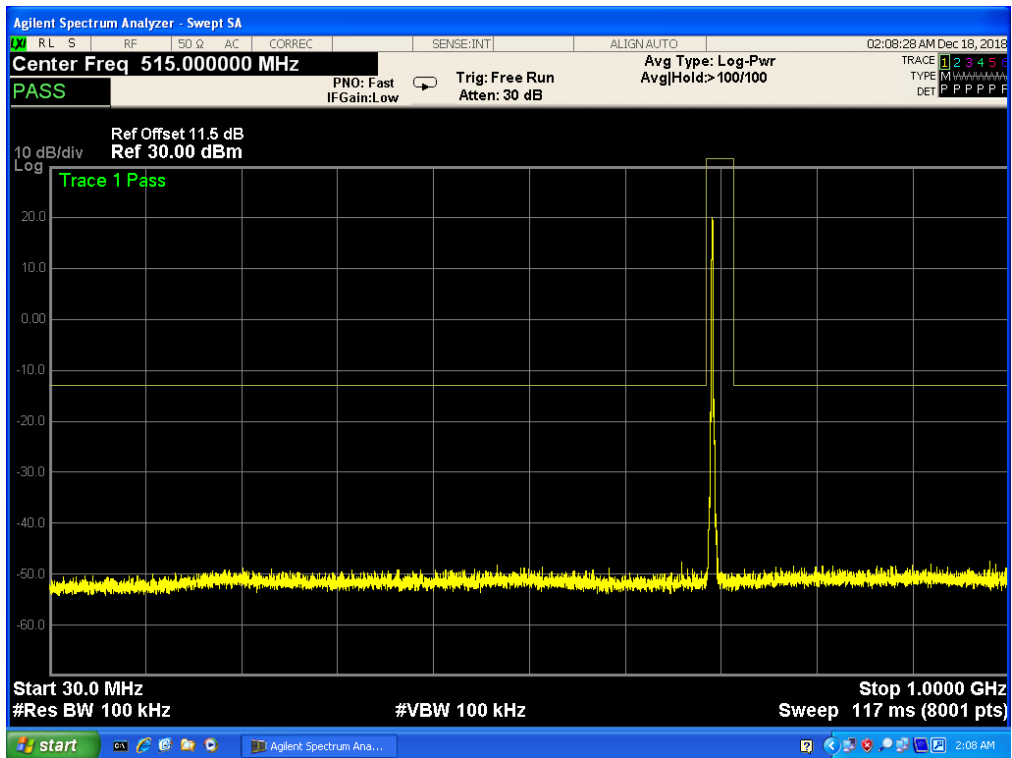


Band 7, UL Channel 21350, UL Frequency 2560.0, BW 20.0, NO. RB 100, RB POS. Low, 16-QAM

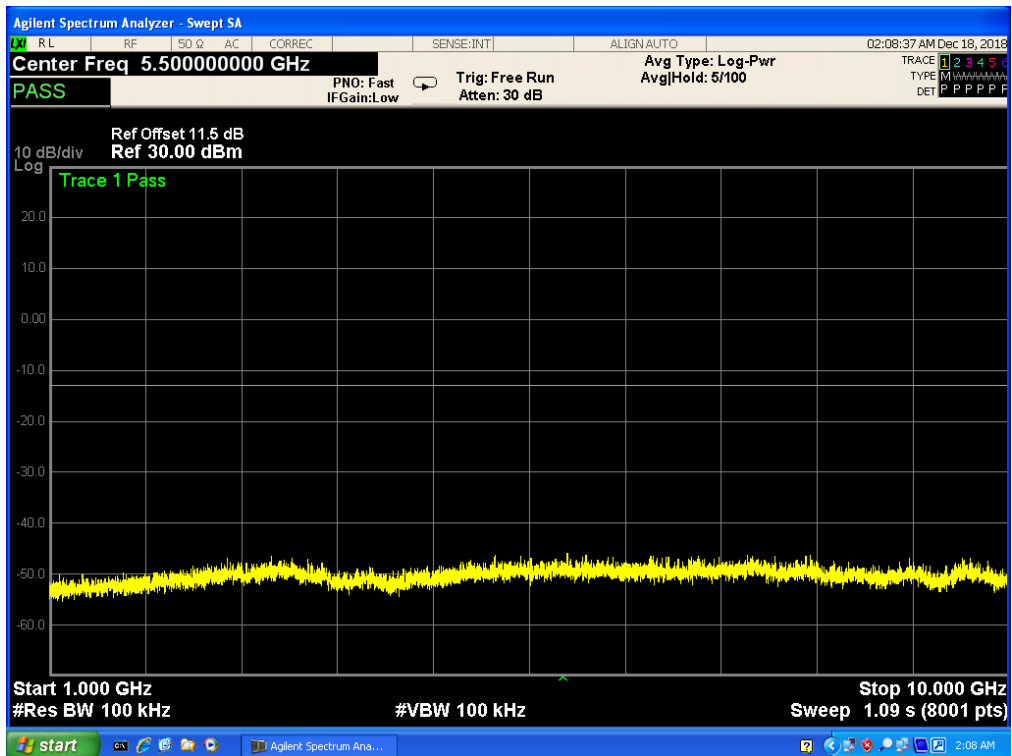


### 7.5 LTE BAND 12

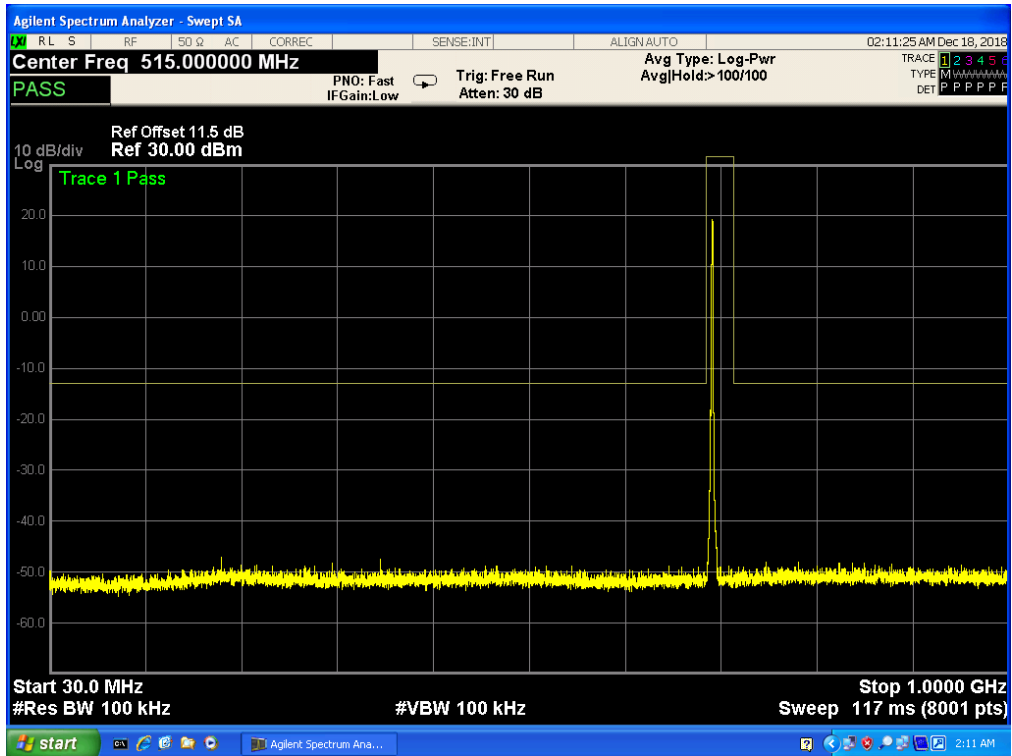
*Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK*



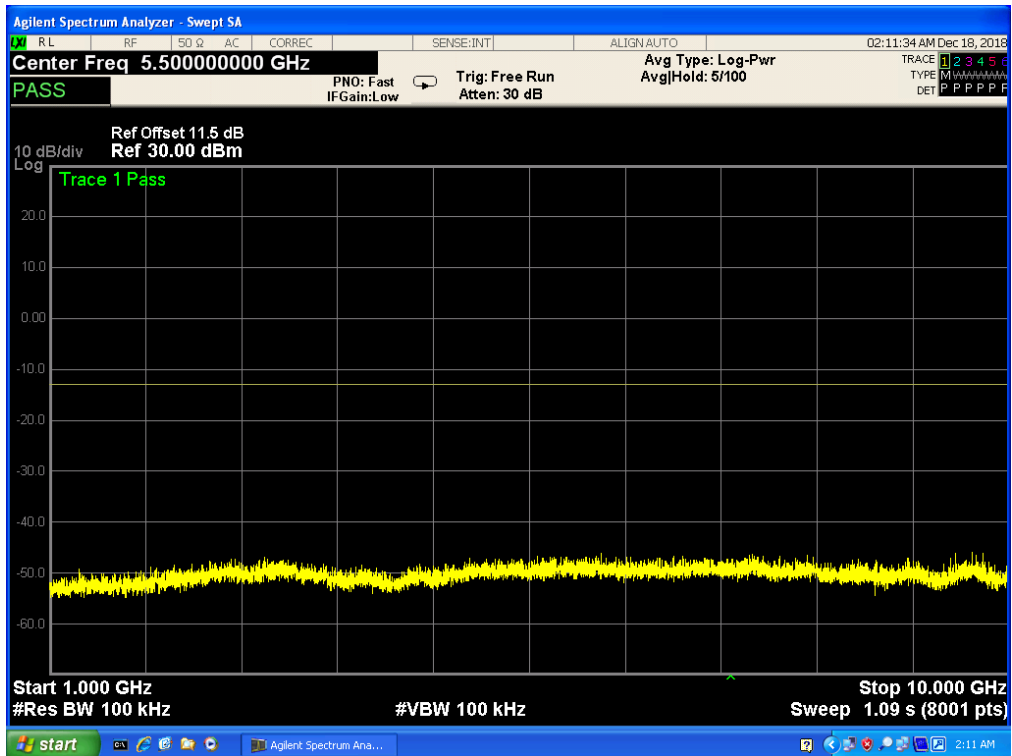
*Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, QPSK*



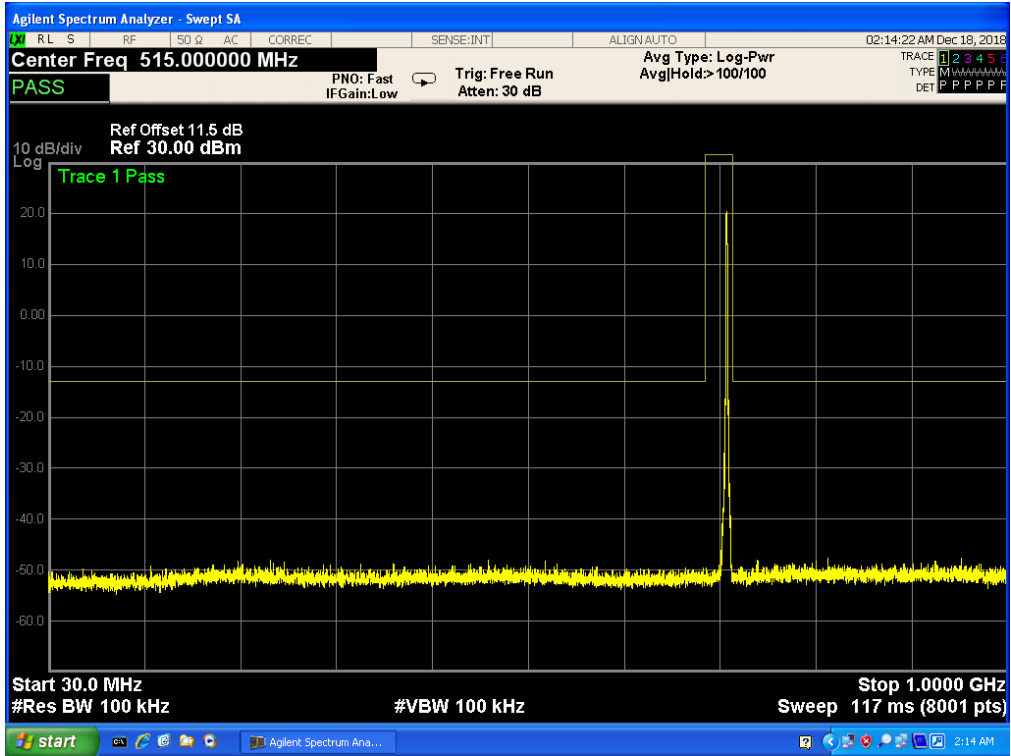
Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



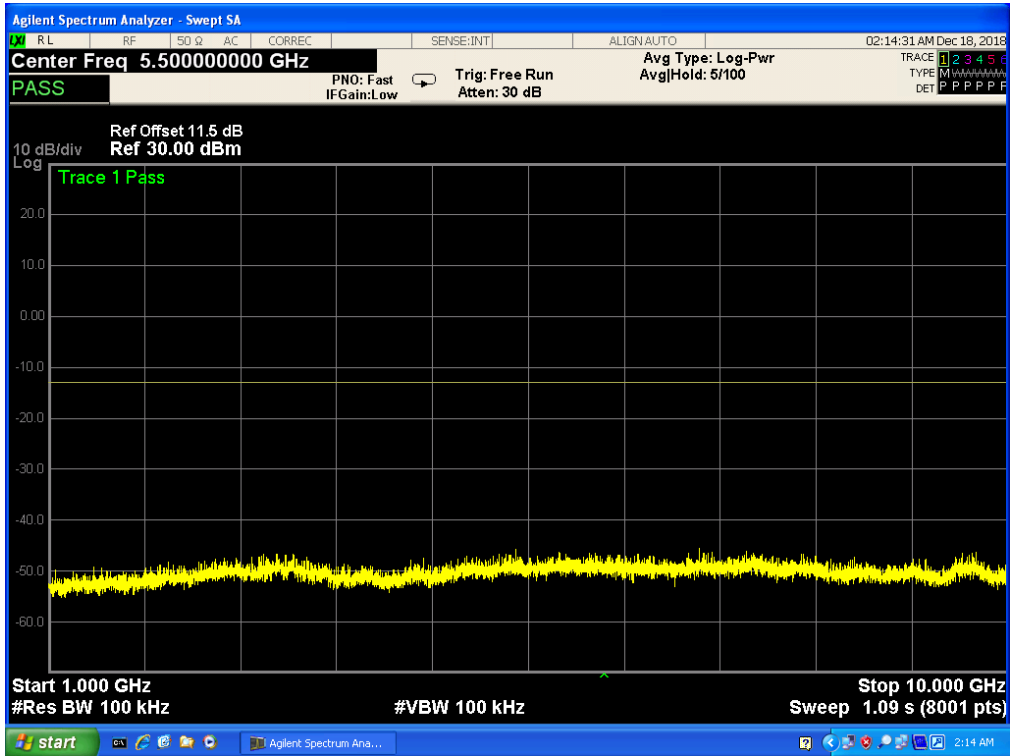
Band 12, UL Channel 23017, UL Frequency 699.7, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



Band 12, UL Channel 23173, UL Frequency 715.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK

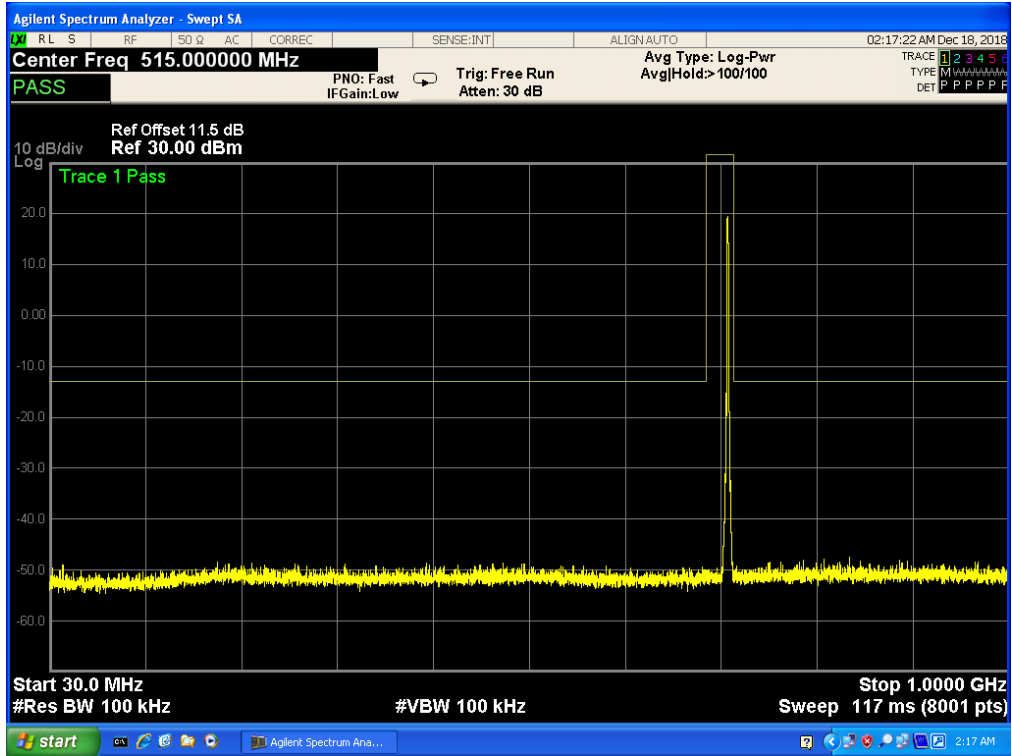


Band 12, UL Channel 23173, UL Frequency 715.3, BW 1.4, NO. RB 6, RB POS. Low, QPSK

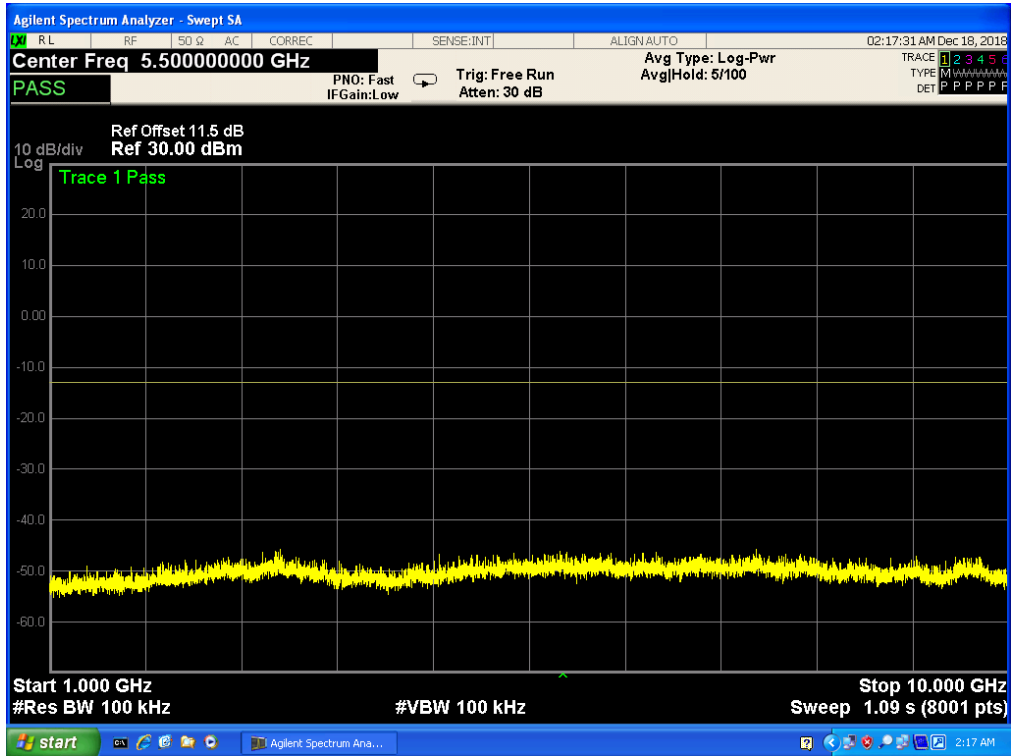




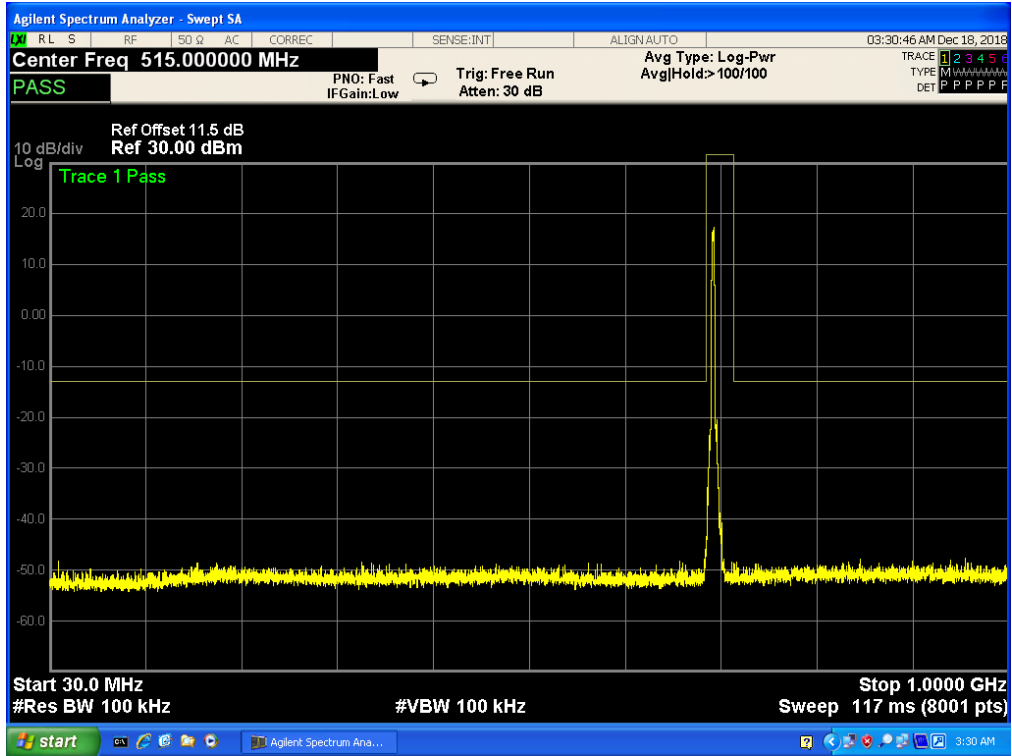
Band 12, UL Channel 23173, UL Frequency 715.3, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



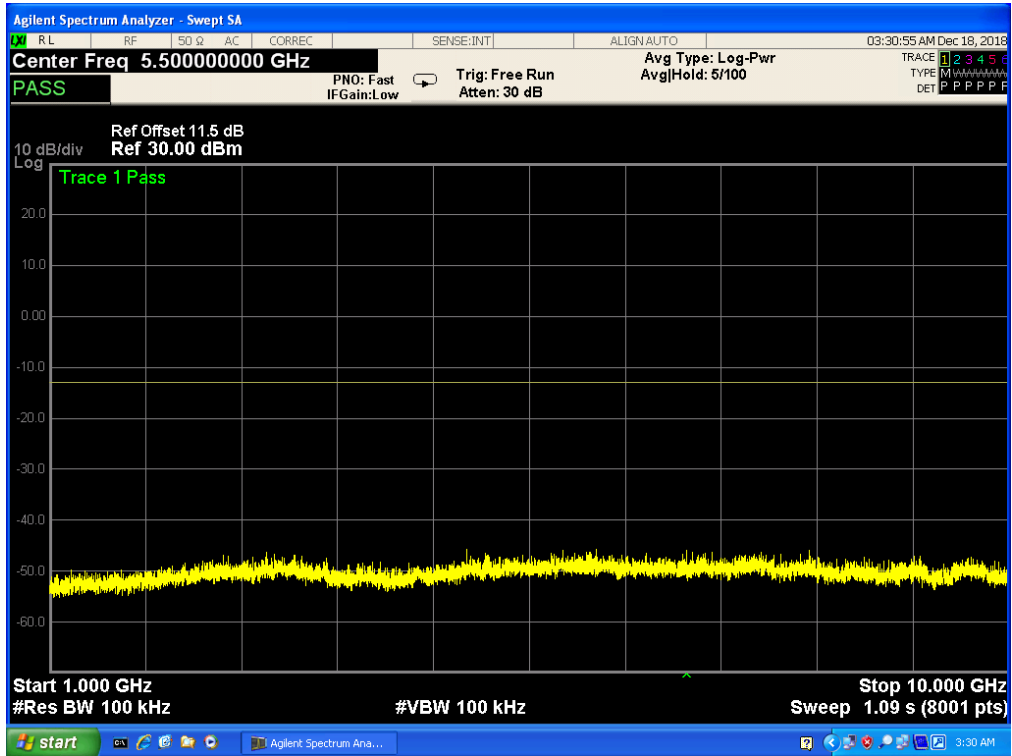
Band 12, UL Channel 23173, UL Frequency 715.3, BW 1.4, NO. RB 6, RB POS. Low, 16-QAM



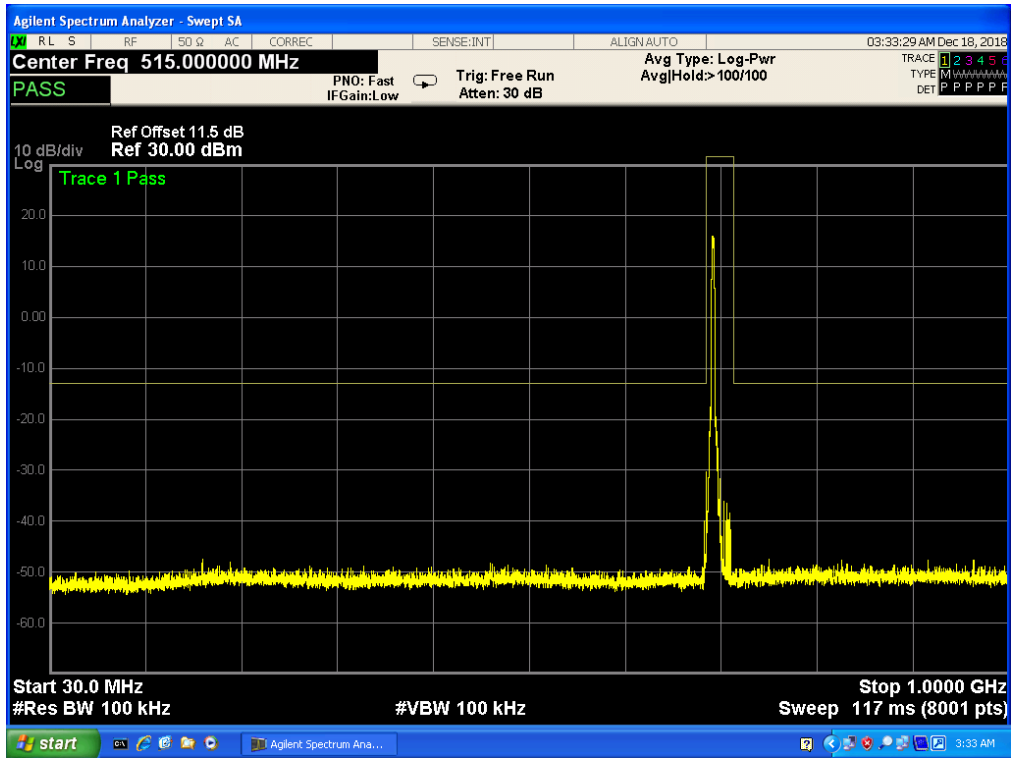
Band 12, UL Channel 23025, UL Frequency 700.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



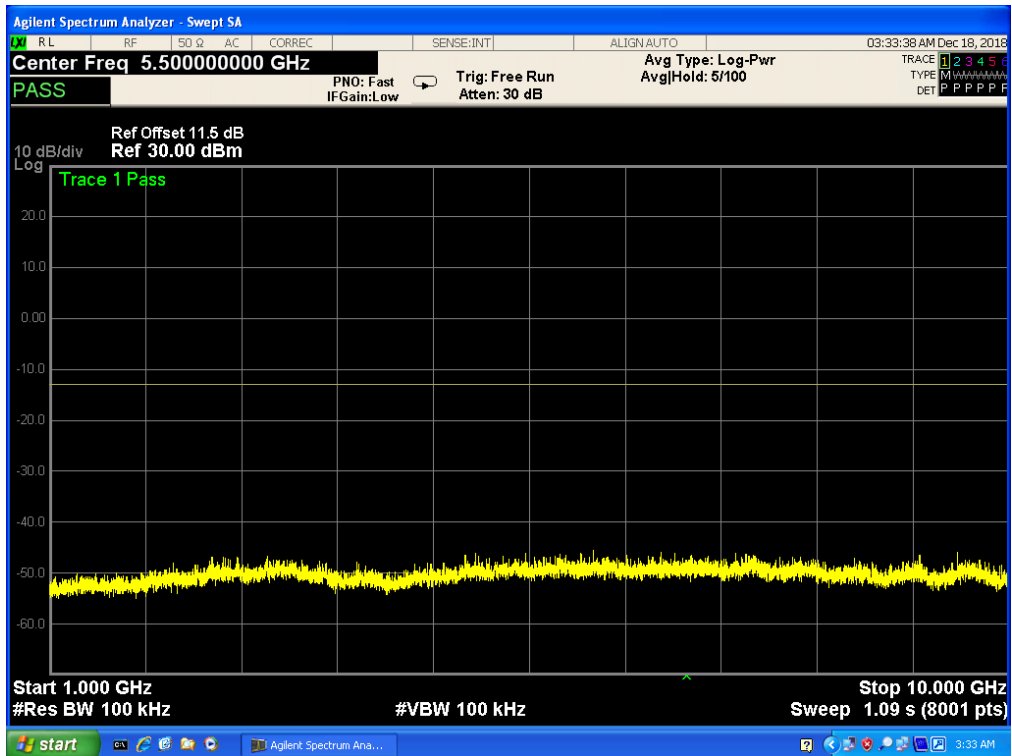
Band 12, UL Channel 23025, UL Frequency 700.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



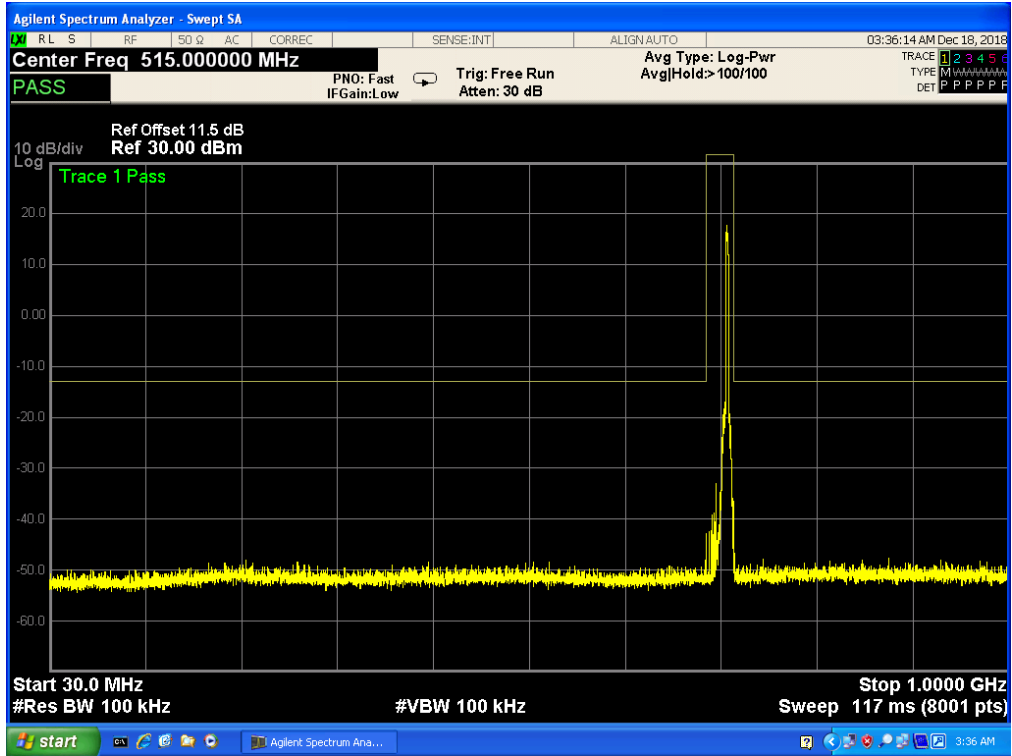
Band 12, UL Channel 23025, UL Frequency 700.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



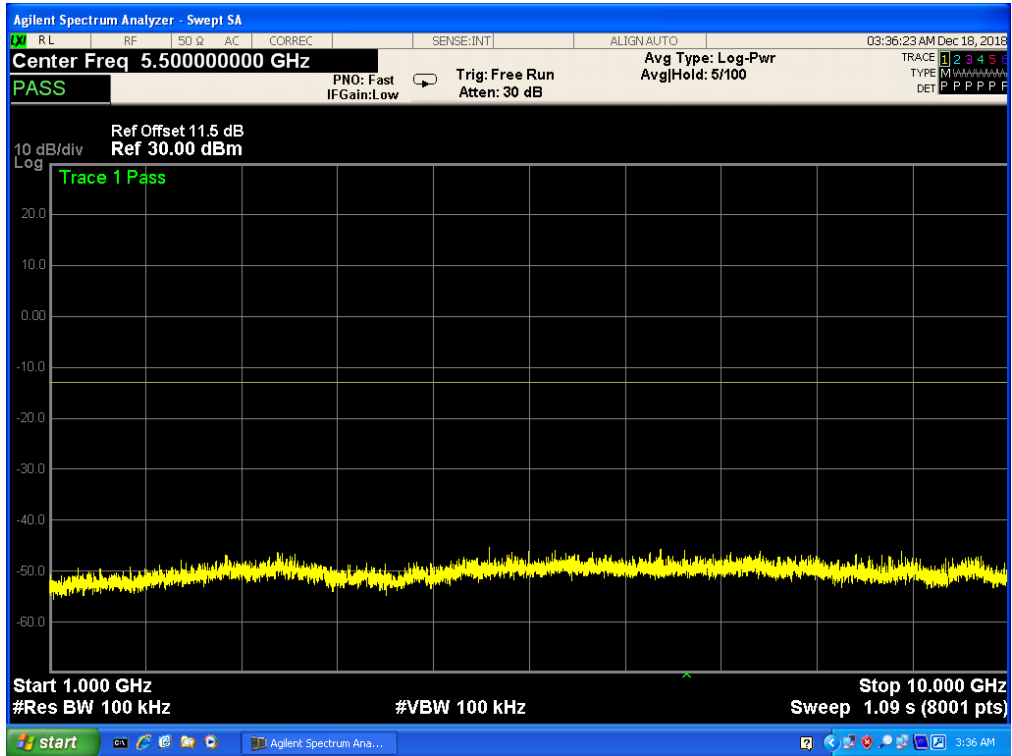
Band 12, UL Channel 23025, UL Frequency 700.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



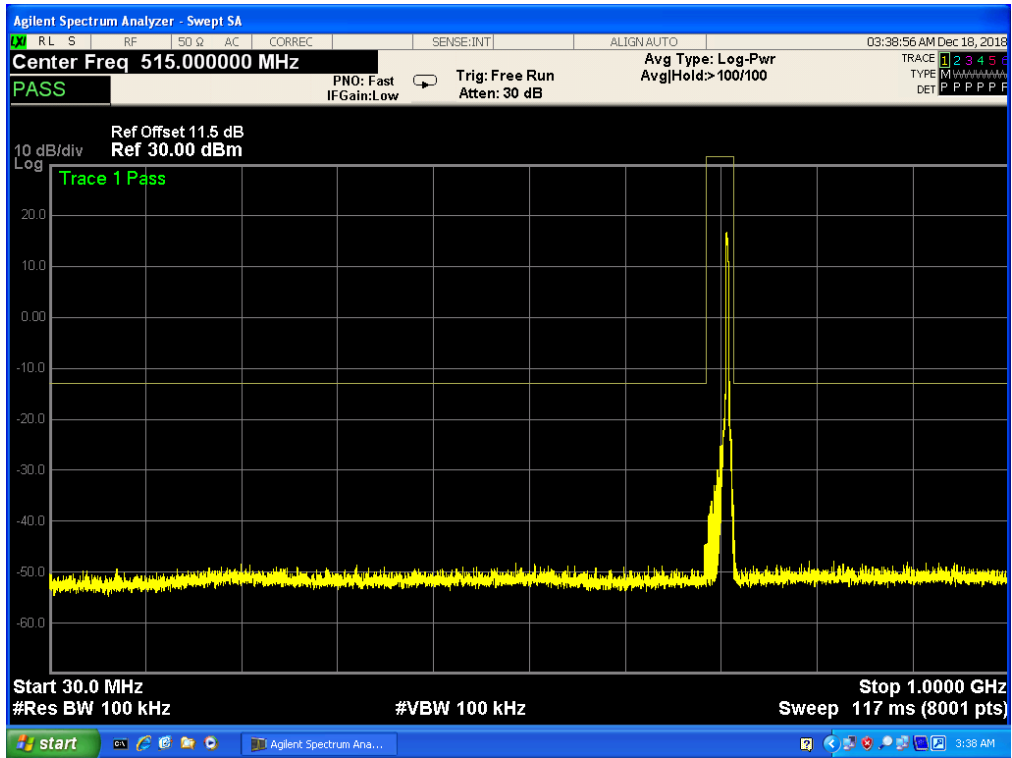
Band 12, UL Channel 23165, UL Frequency 714.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



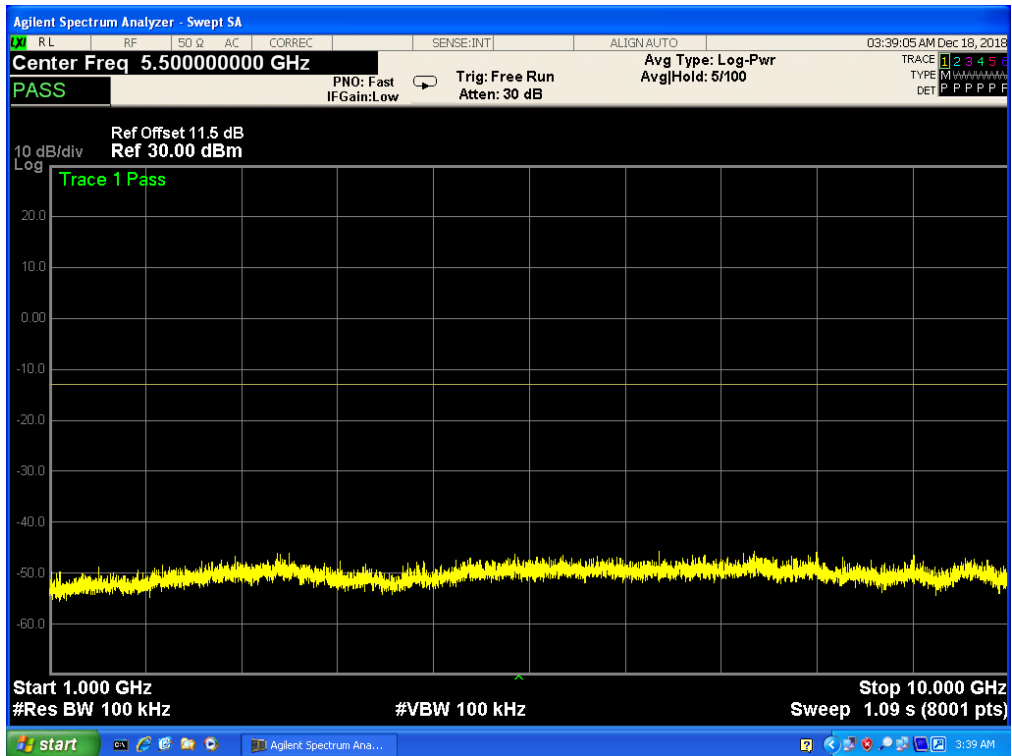
Band 12, UL Channel 23165, UL Frequency 714.5, BW 3.0, NO. RB 15, RB POS. Low, QPSK



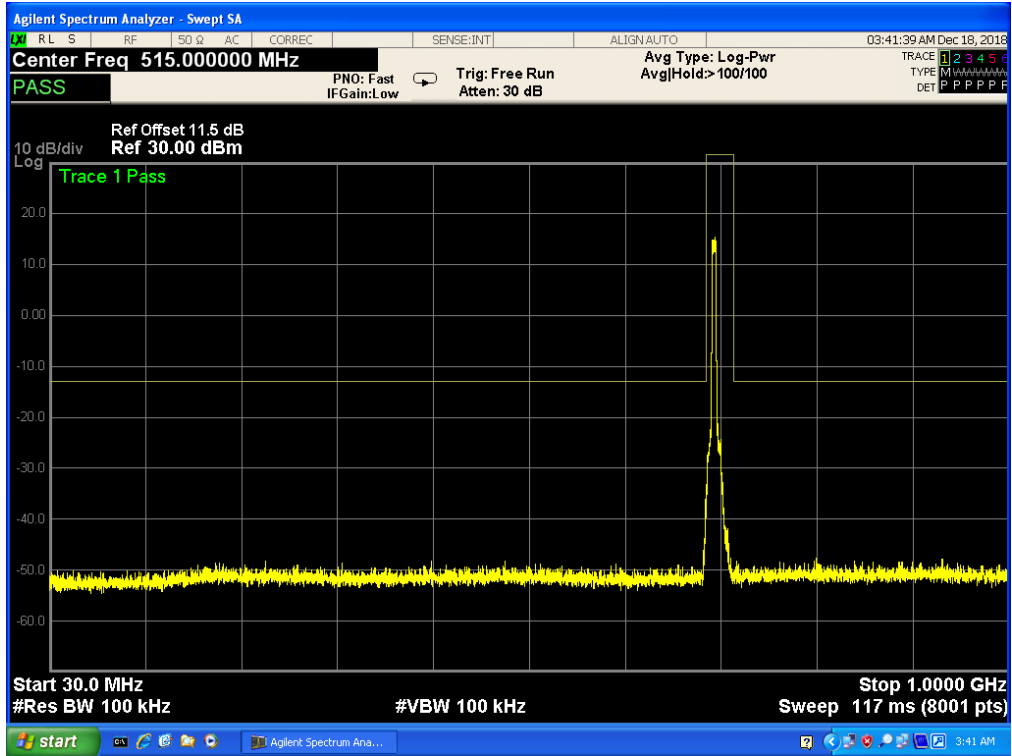
Band 12, UL Channel 23165, UL Frequency 714.5, BW 3.0, NO. RB 15, RB POS. Low, 16-QAM



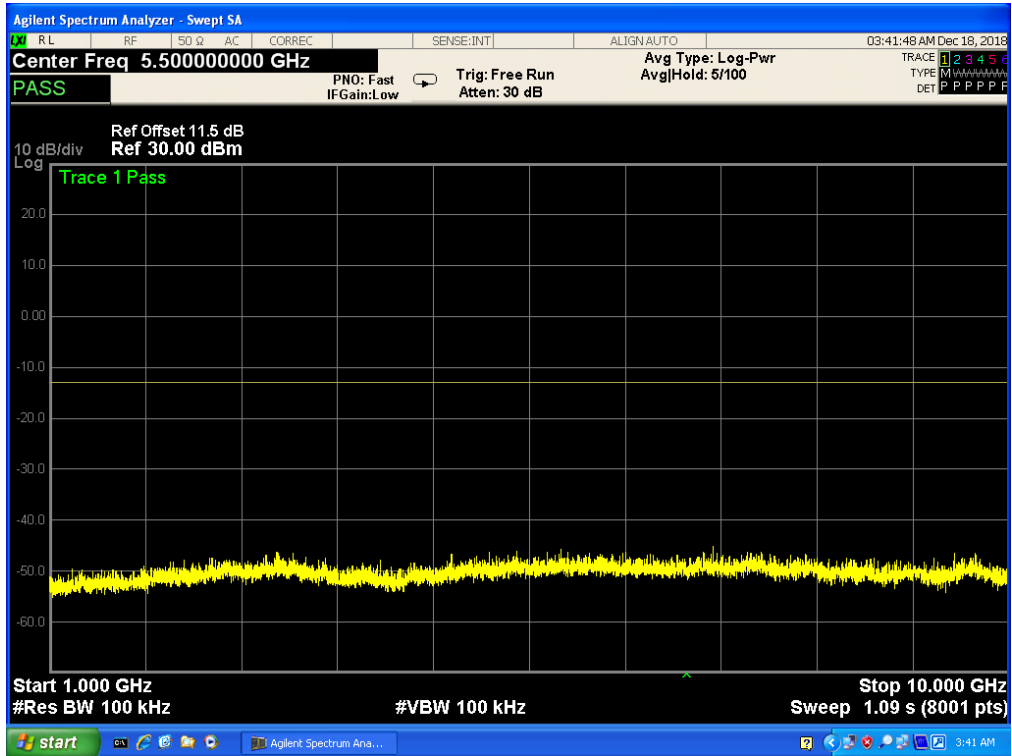
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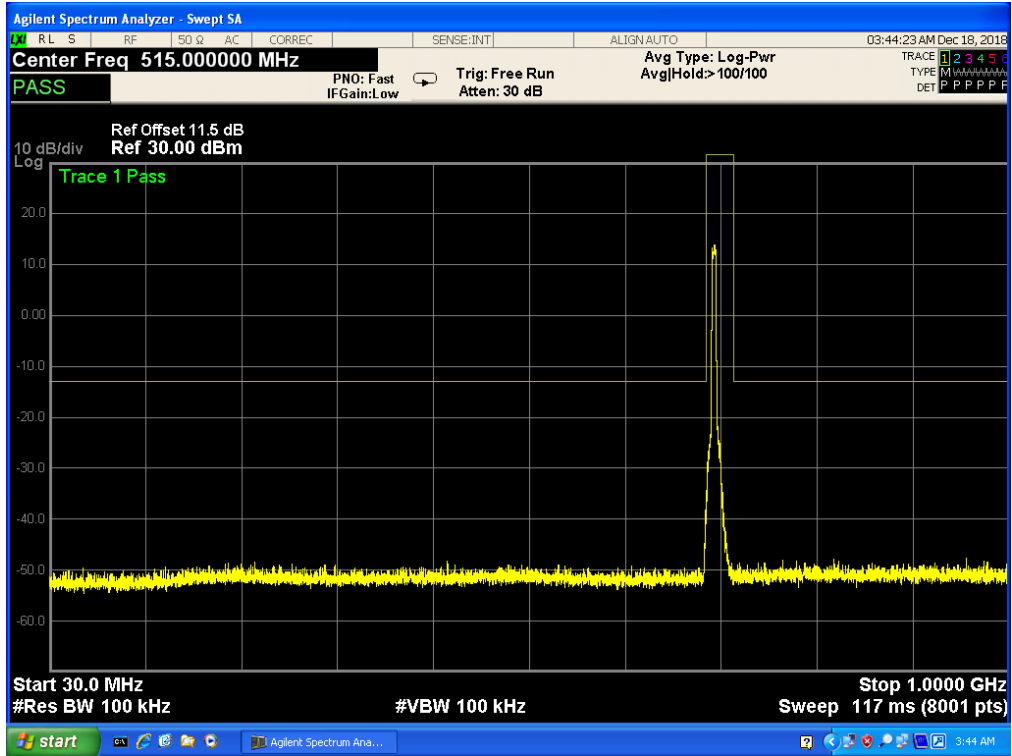
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



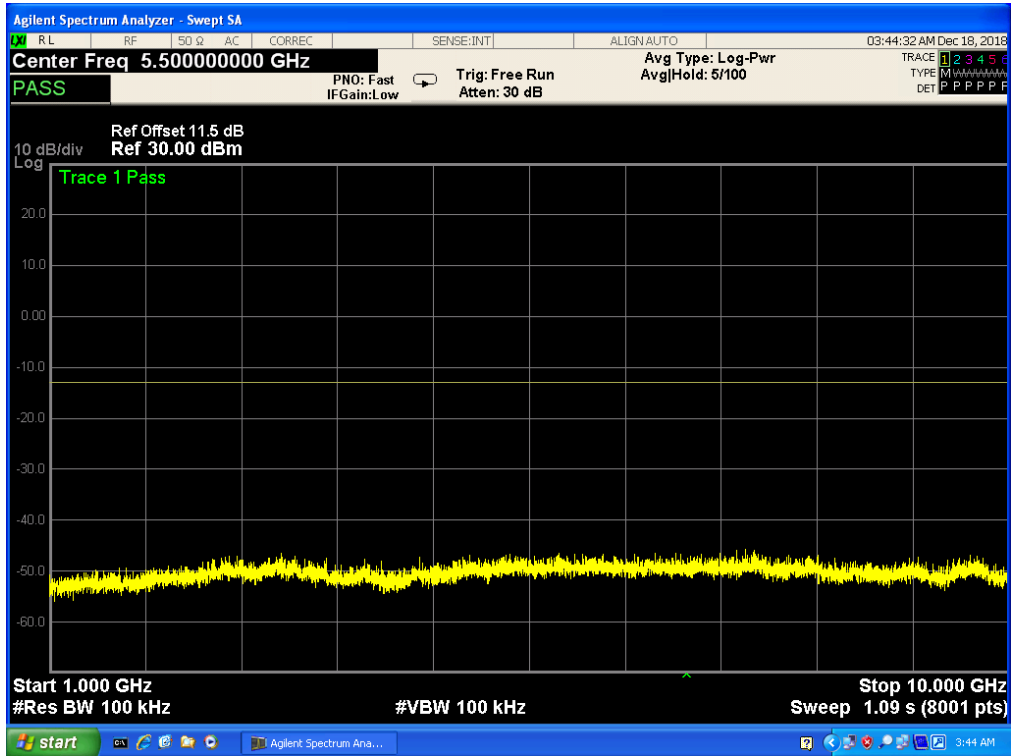
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK



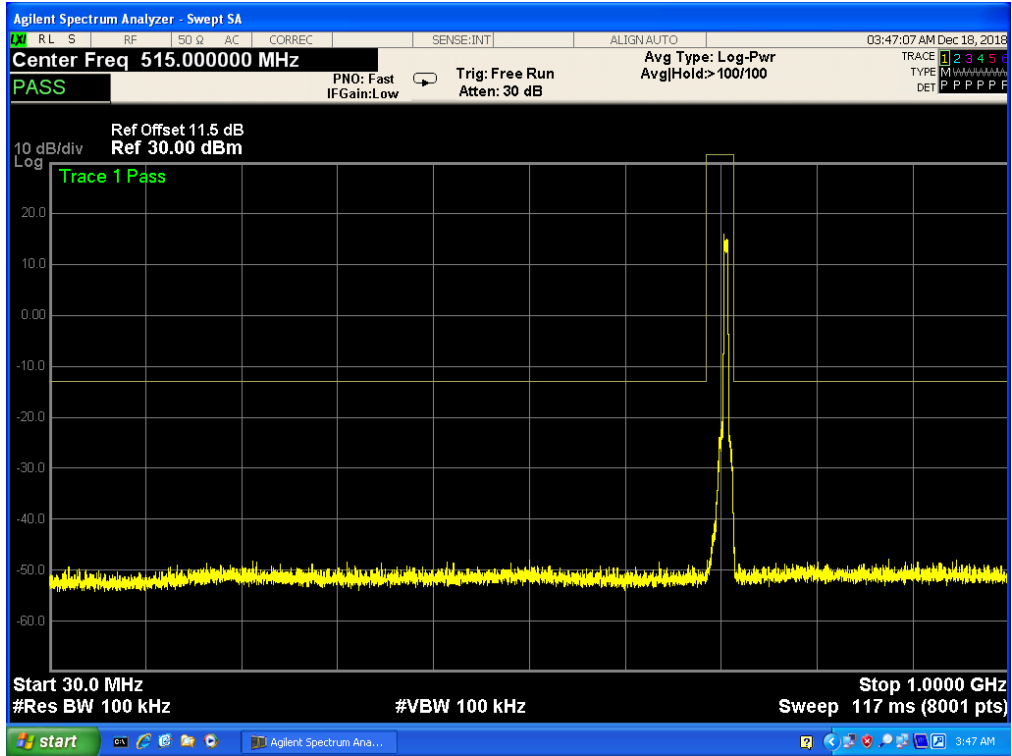
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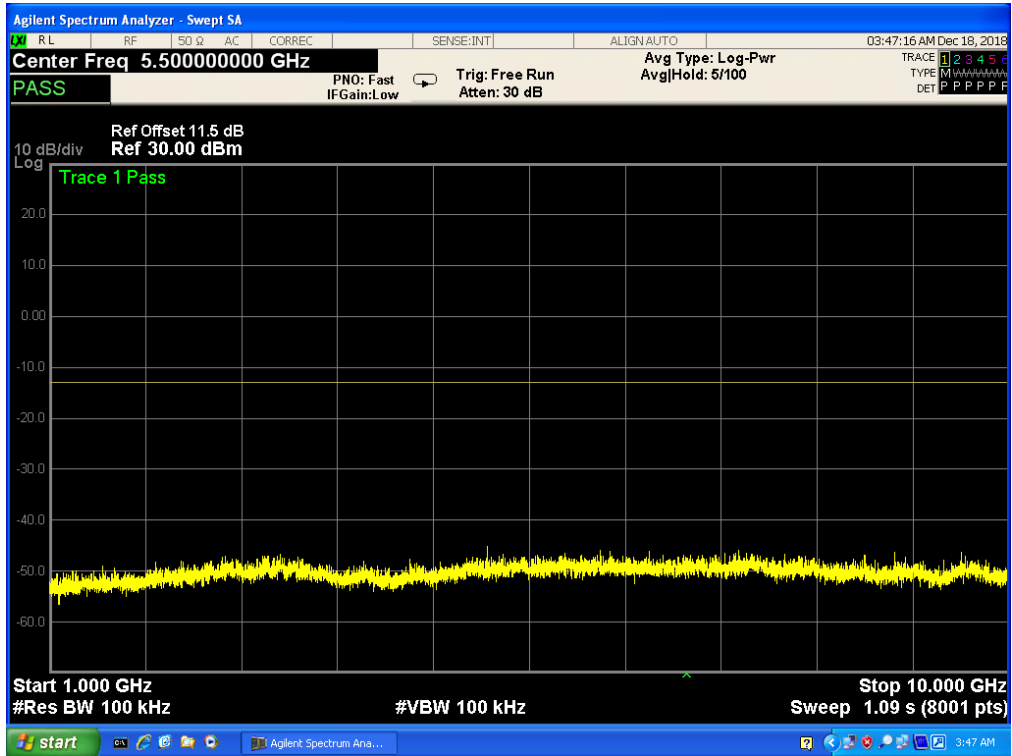
Band 12, UL Channel 23035, UL Frequency 701.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



Band 12, UL Channel 23155, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK

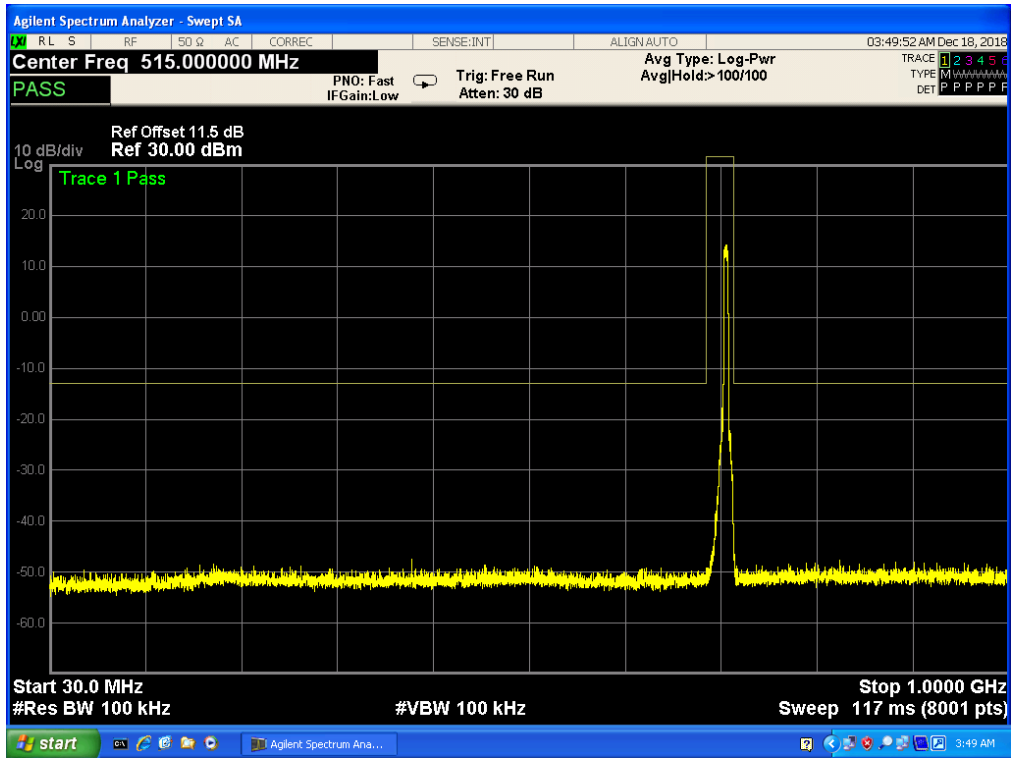


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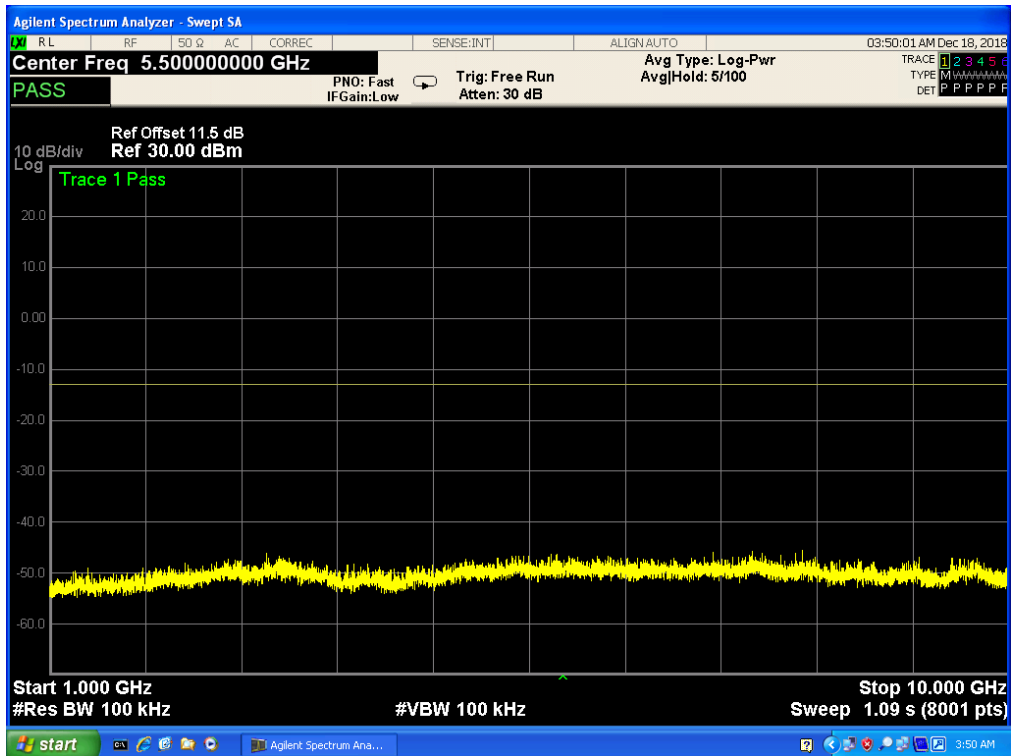




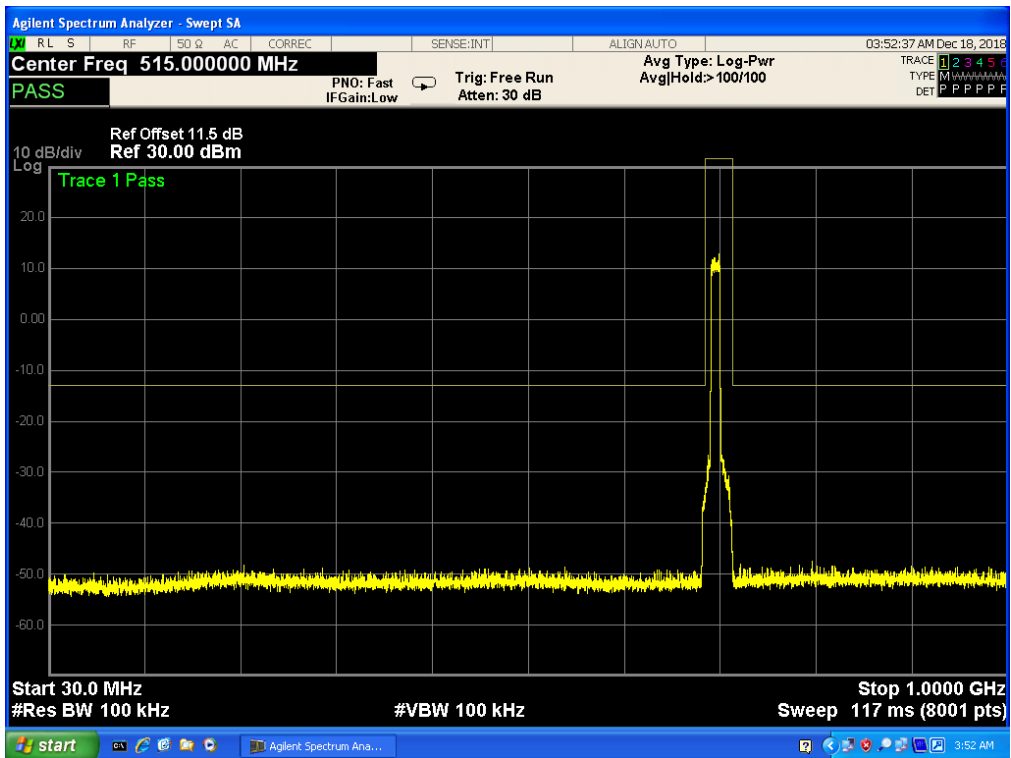
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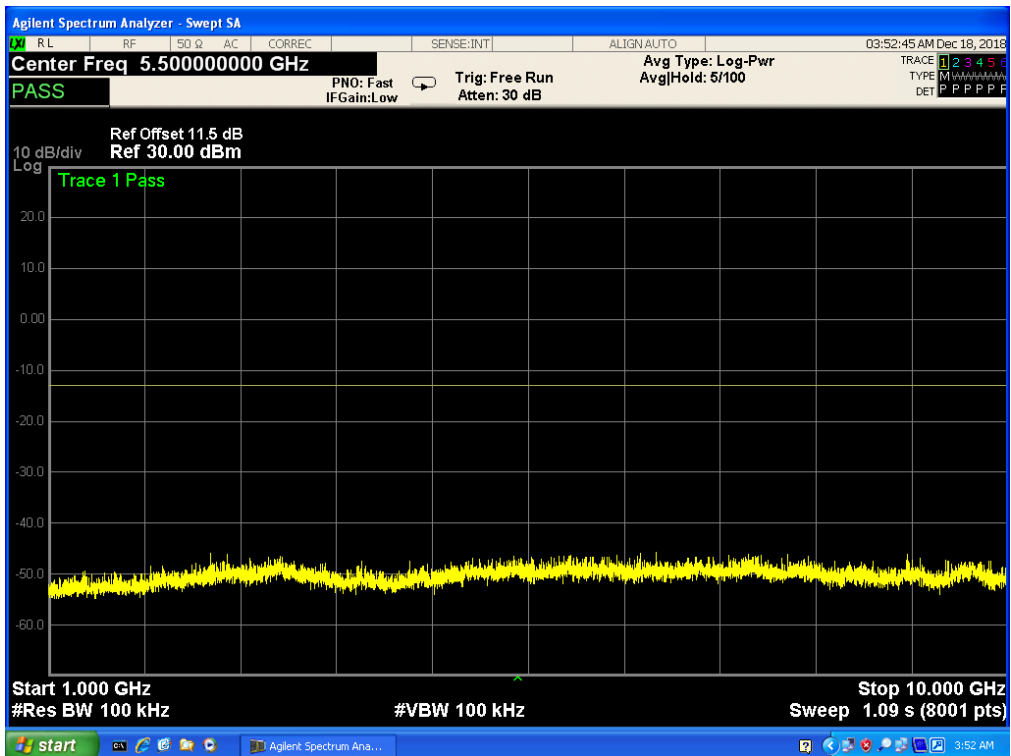
Band 12, UL Channel 23155, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



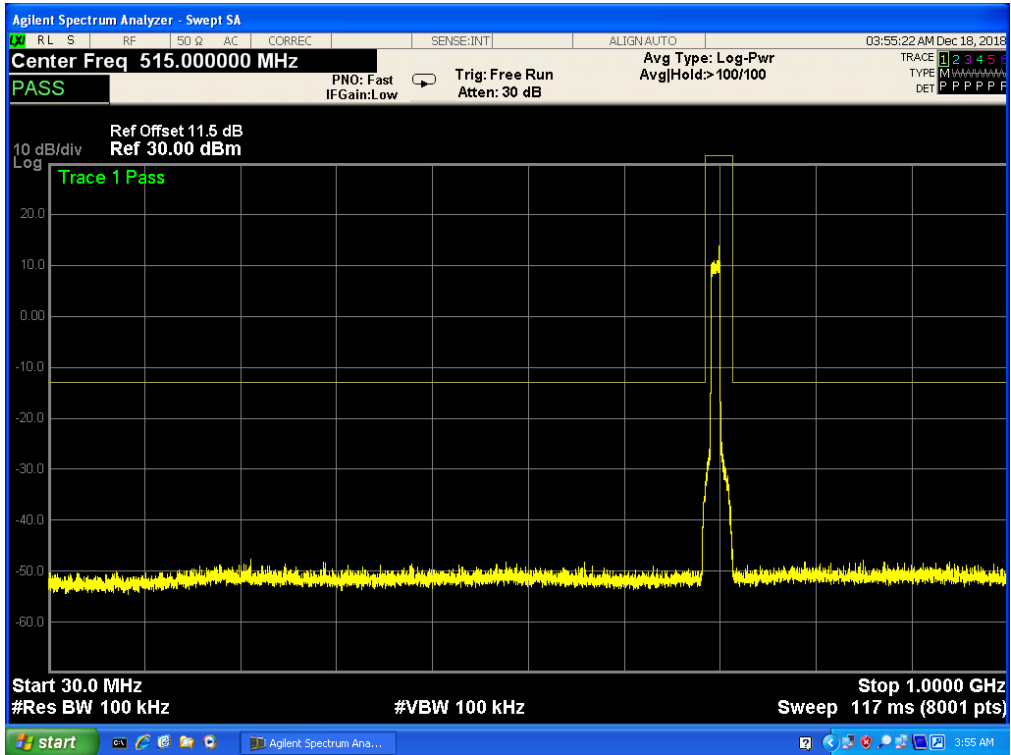
Band 12, UL Channel 23060, UL Frequency 704.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



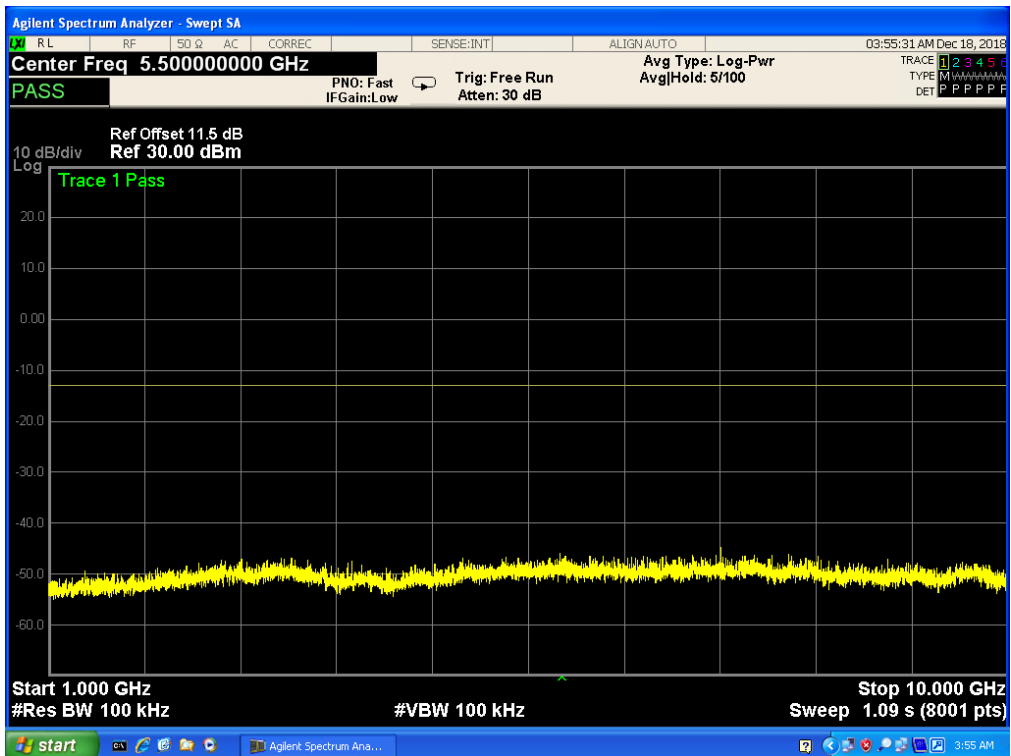
Band 12, UL Channel 23060, UL Frequency 704.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



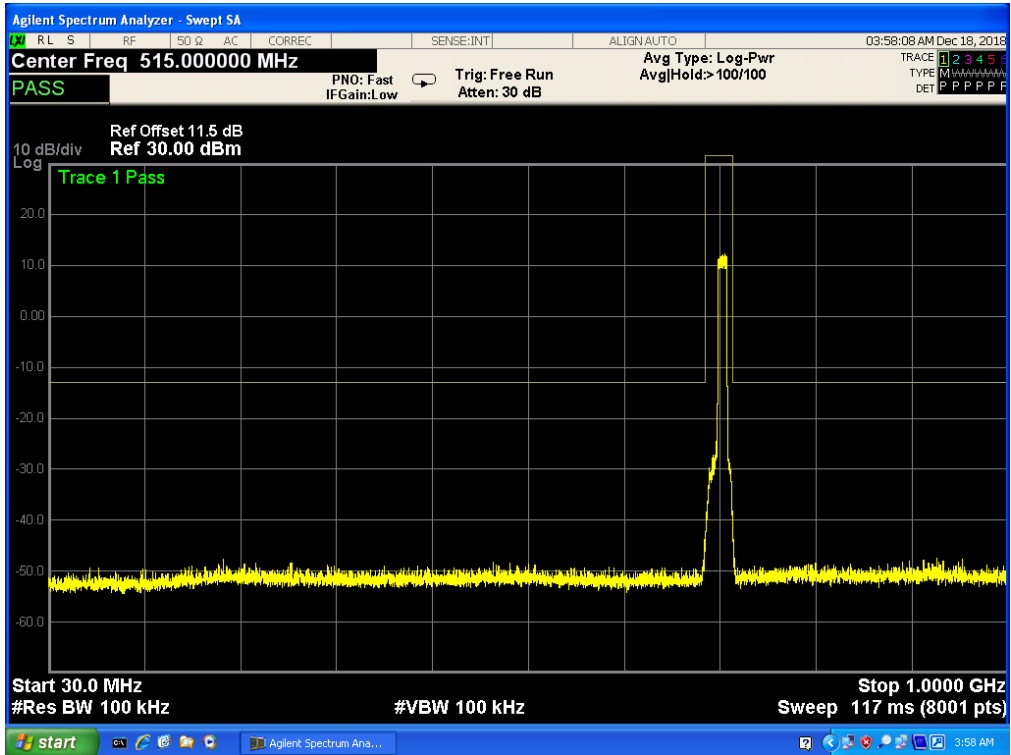
Band 12, UL Channel 23060, UL Frequency 704.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



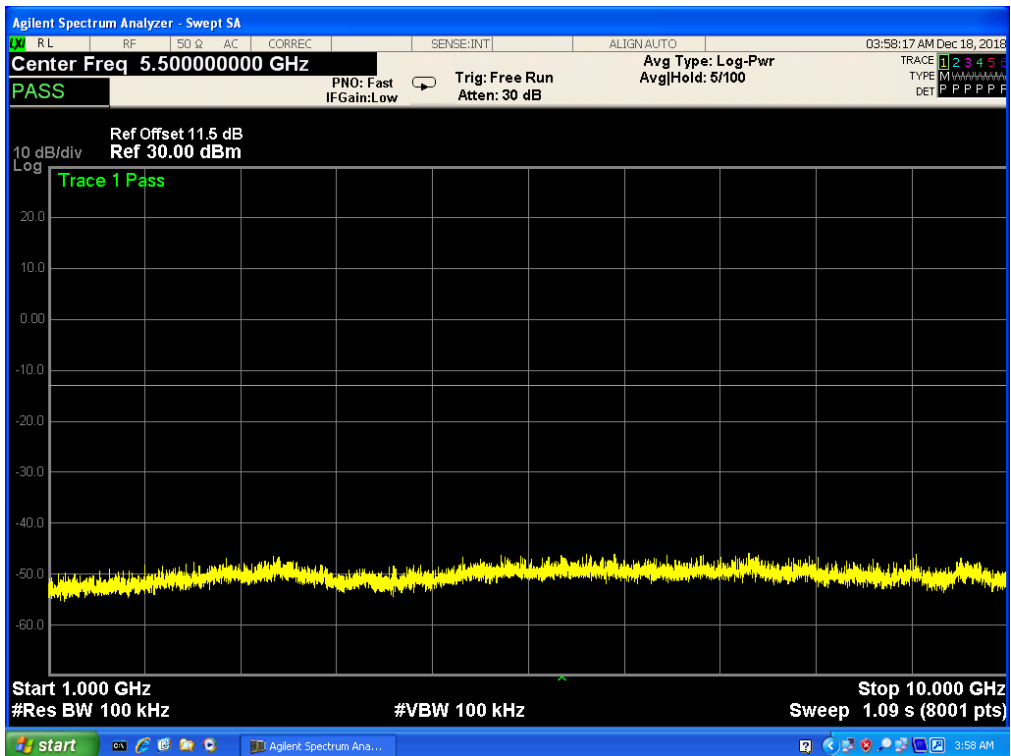
Band 12, UL Channel 23060, UL Frequency 704.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



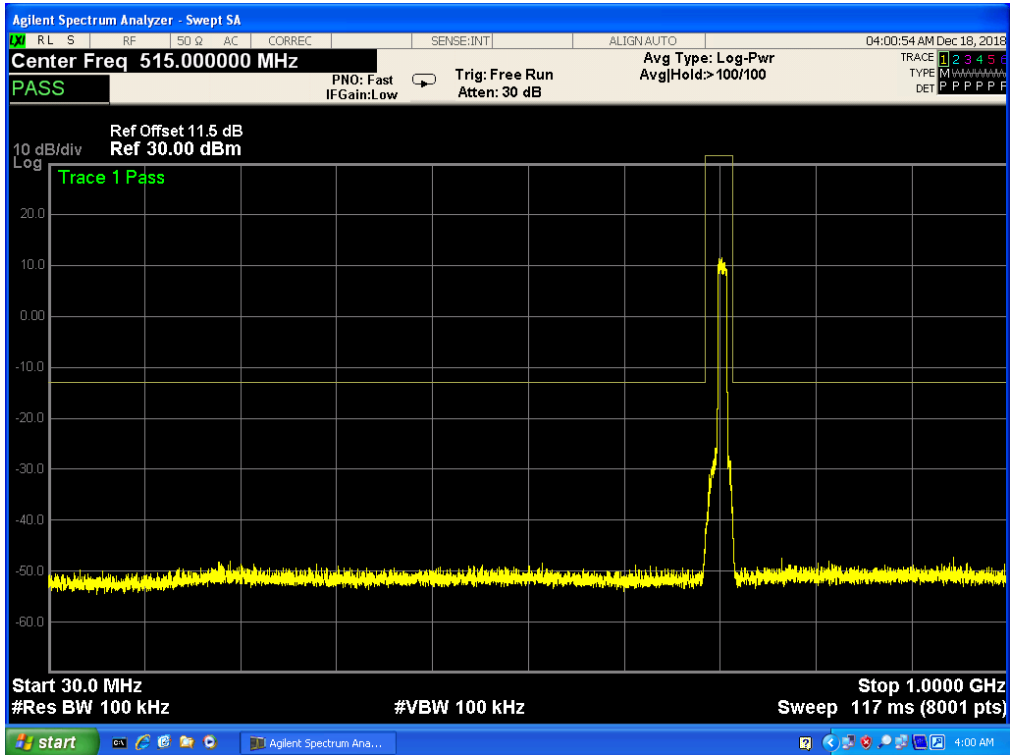
Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



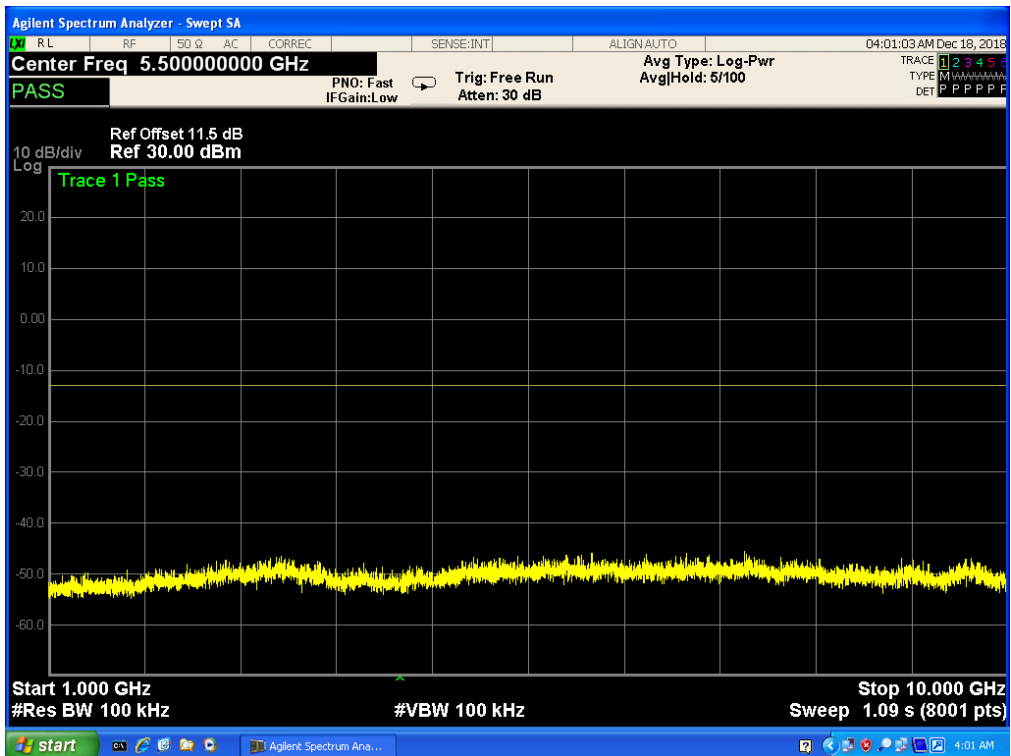
Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 12, UL Channel 23130, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM

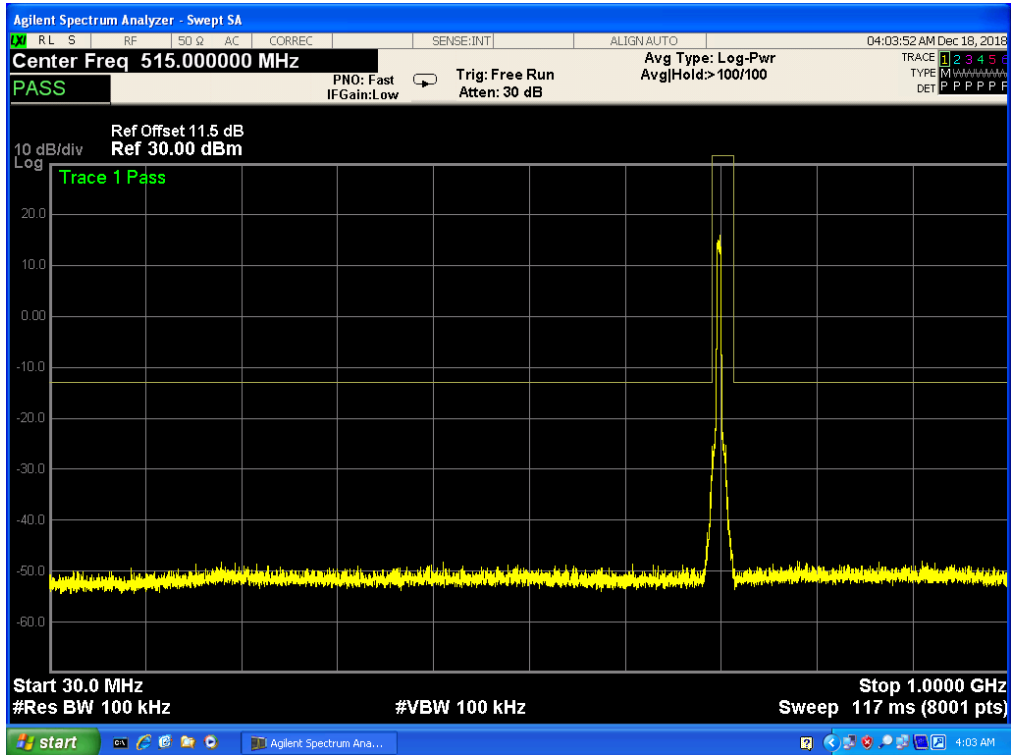


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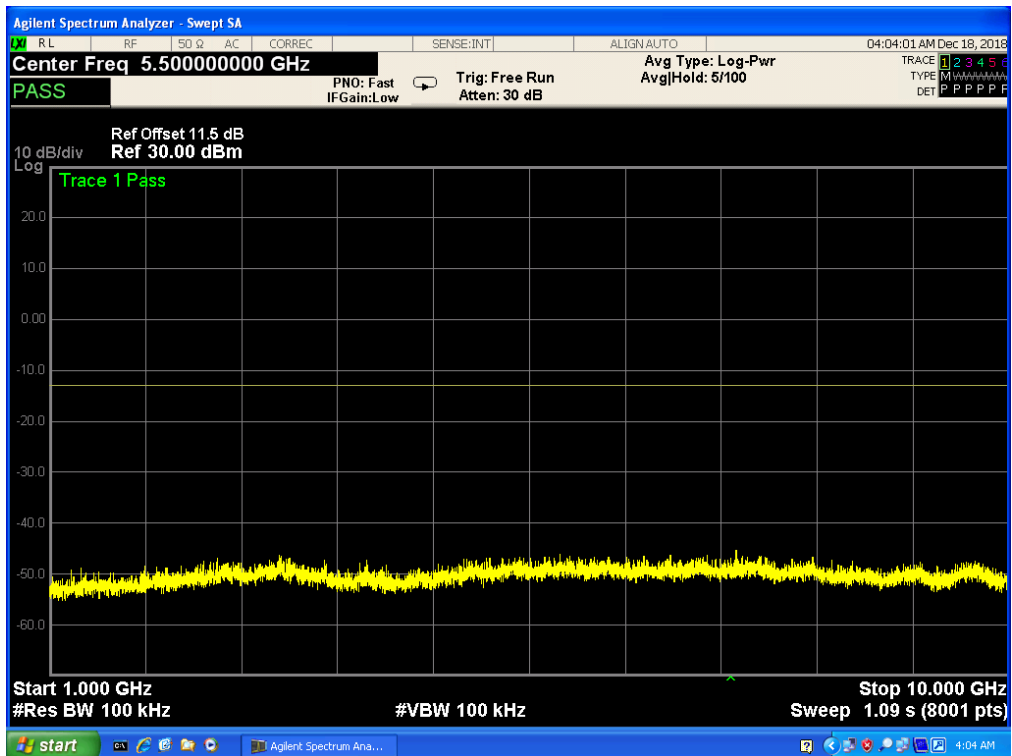


### 7.6 LTE BAND 17

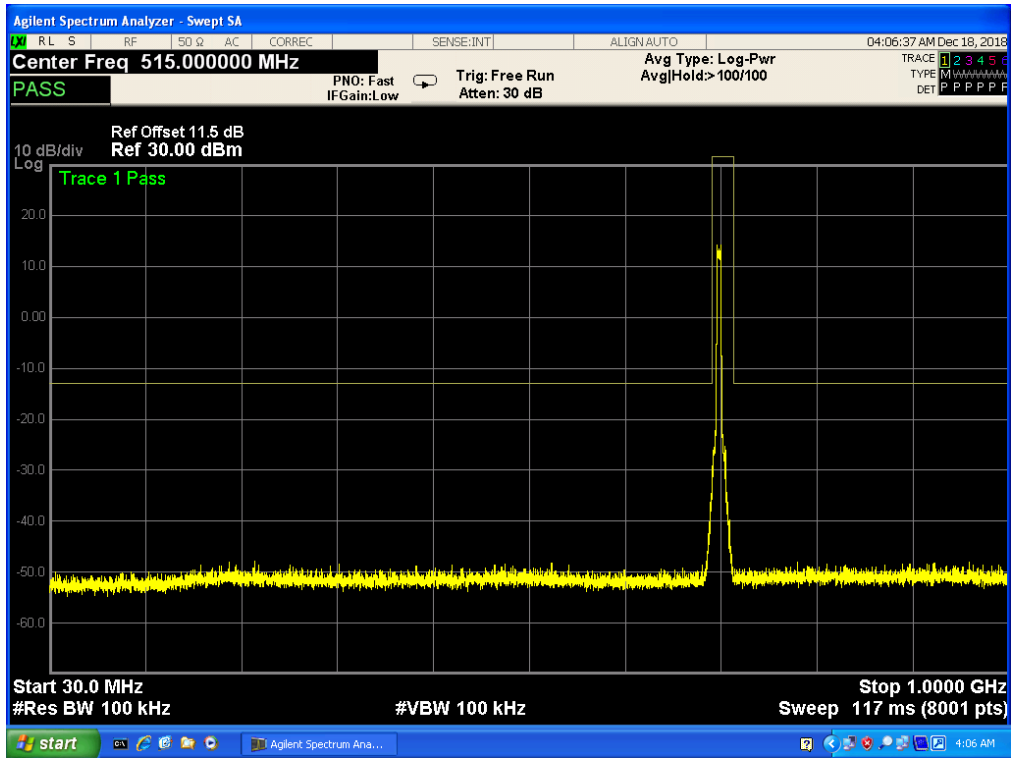
*Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK*



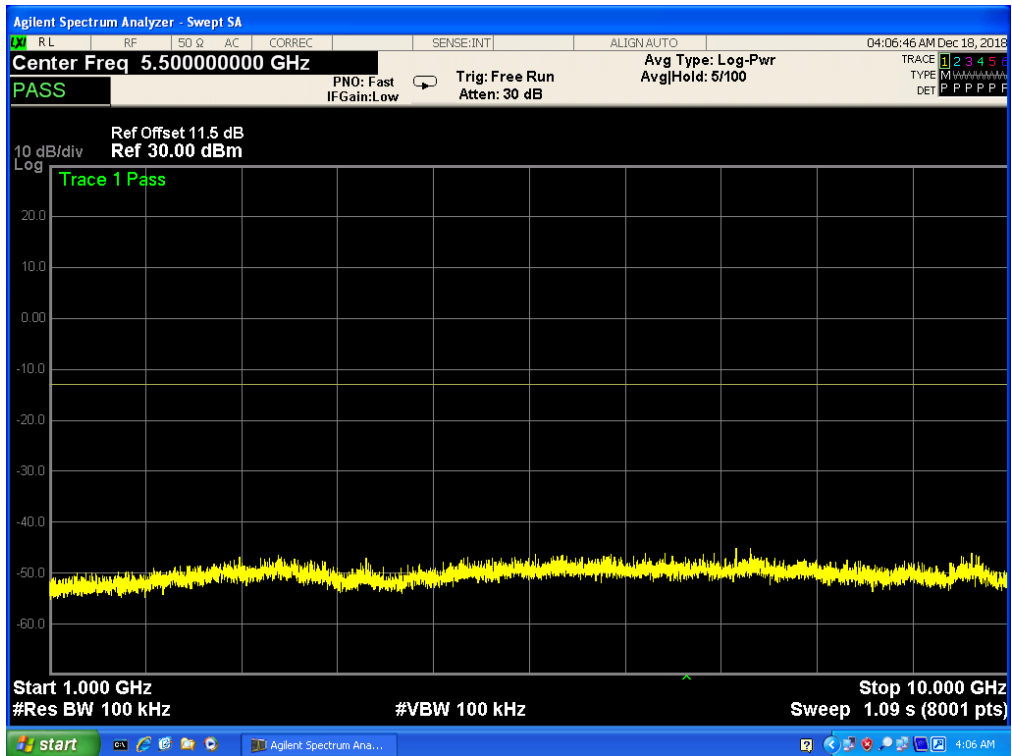
*Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK*



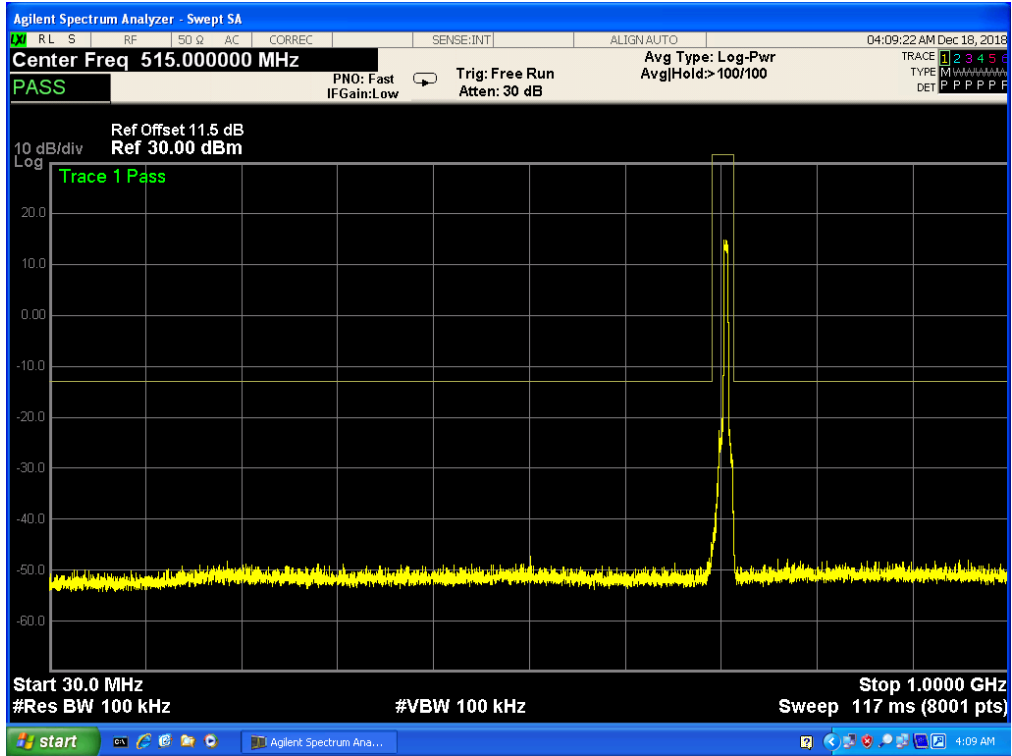
Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



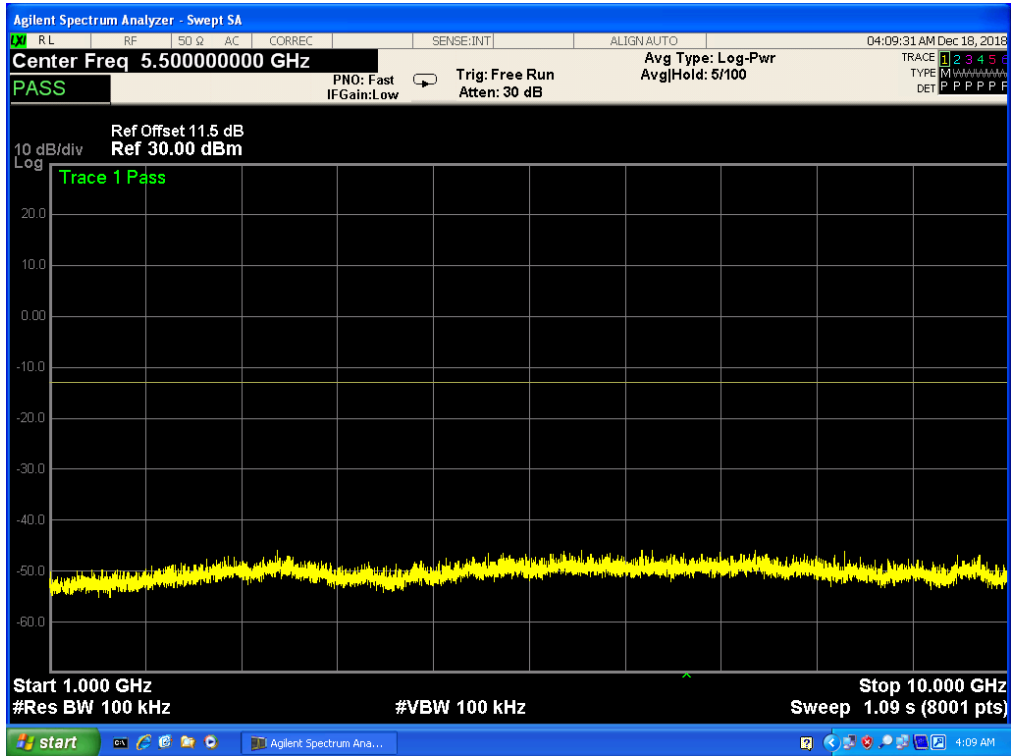
Band 17, UL Channel 23755, UL Frequency 706.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



Band 17, UL Channel 23825, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK

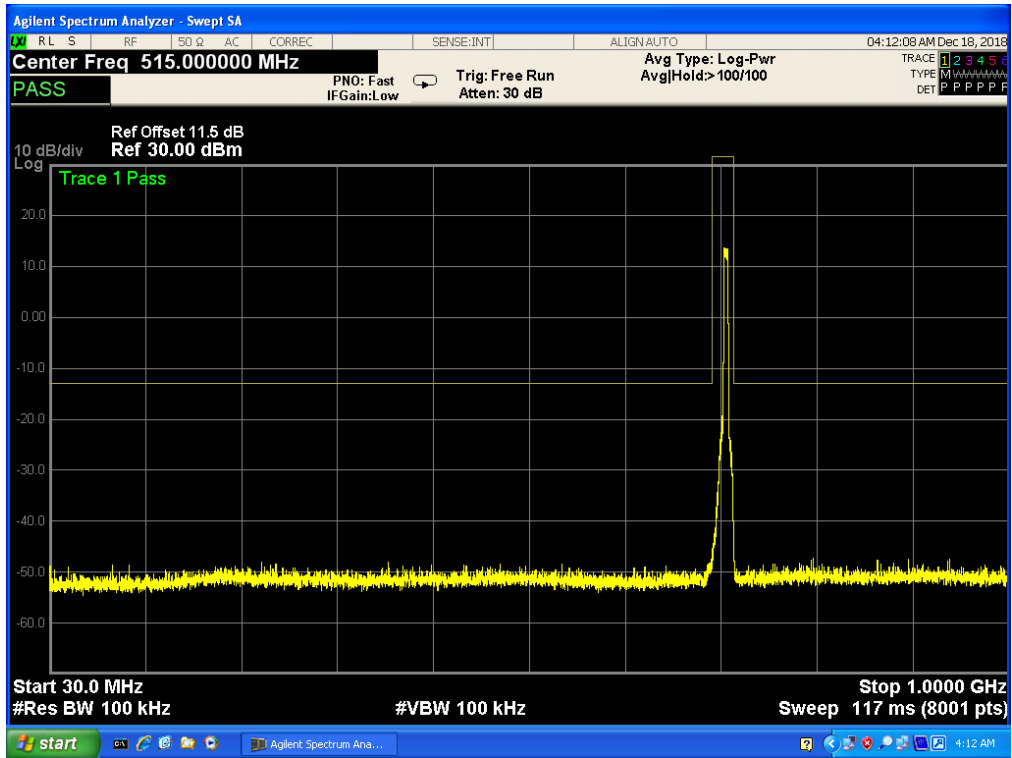


Band 17, UL Channel 23825, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, QPSK

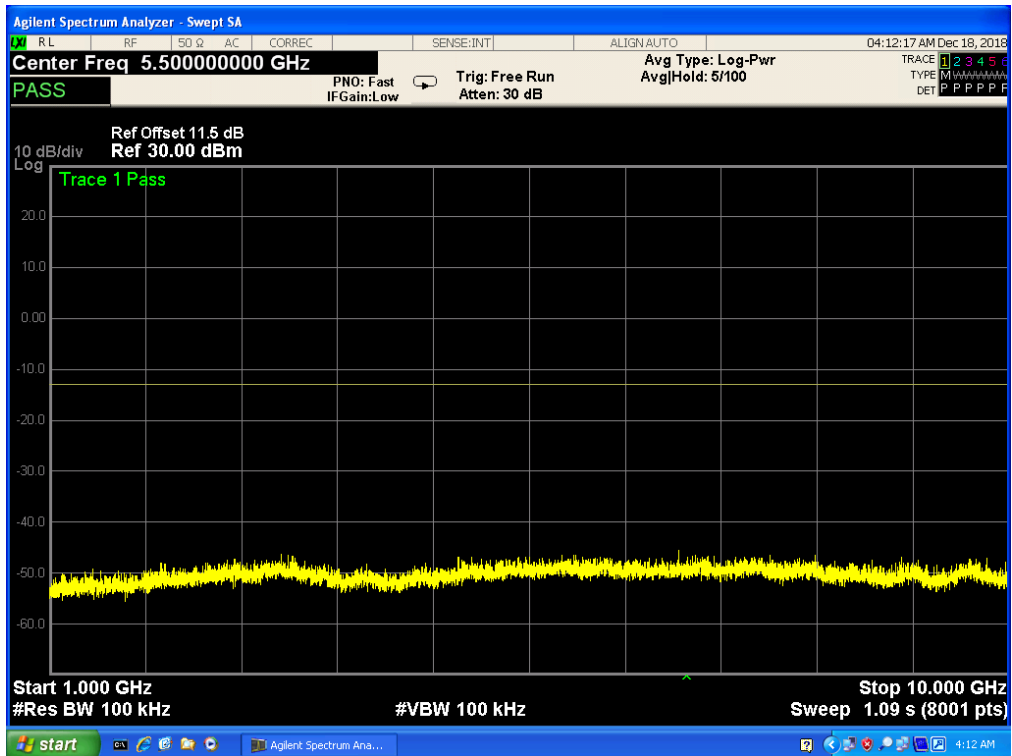




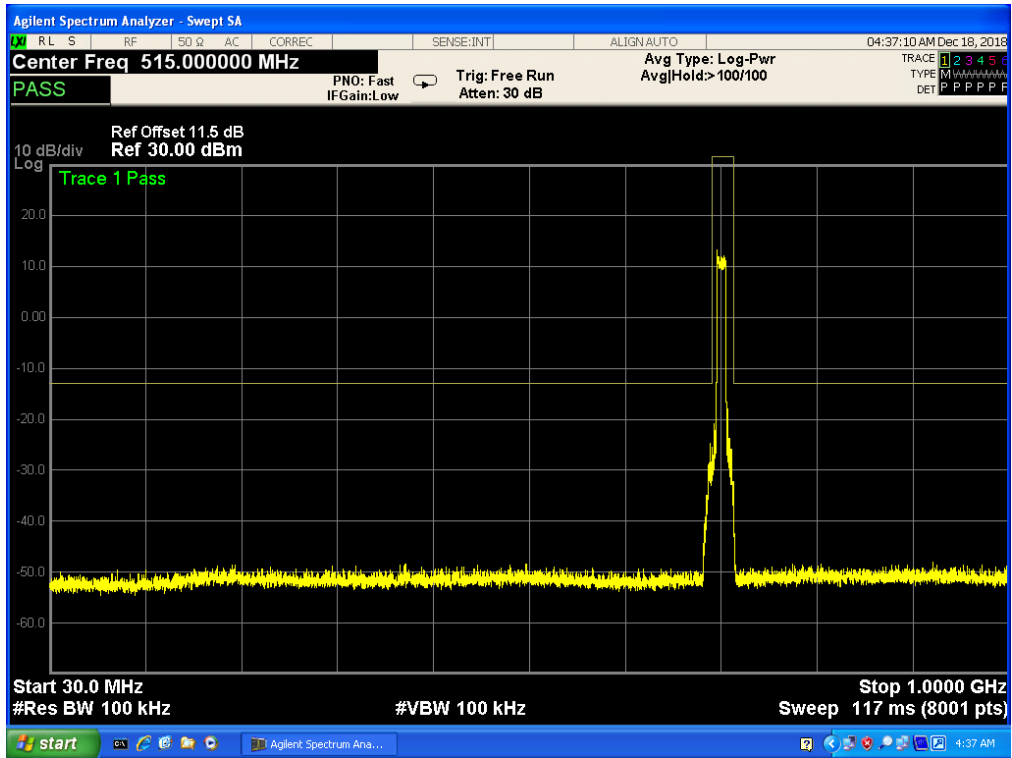
Band 17, UL Channel 23825, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



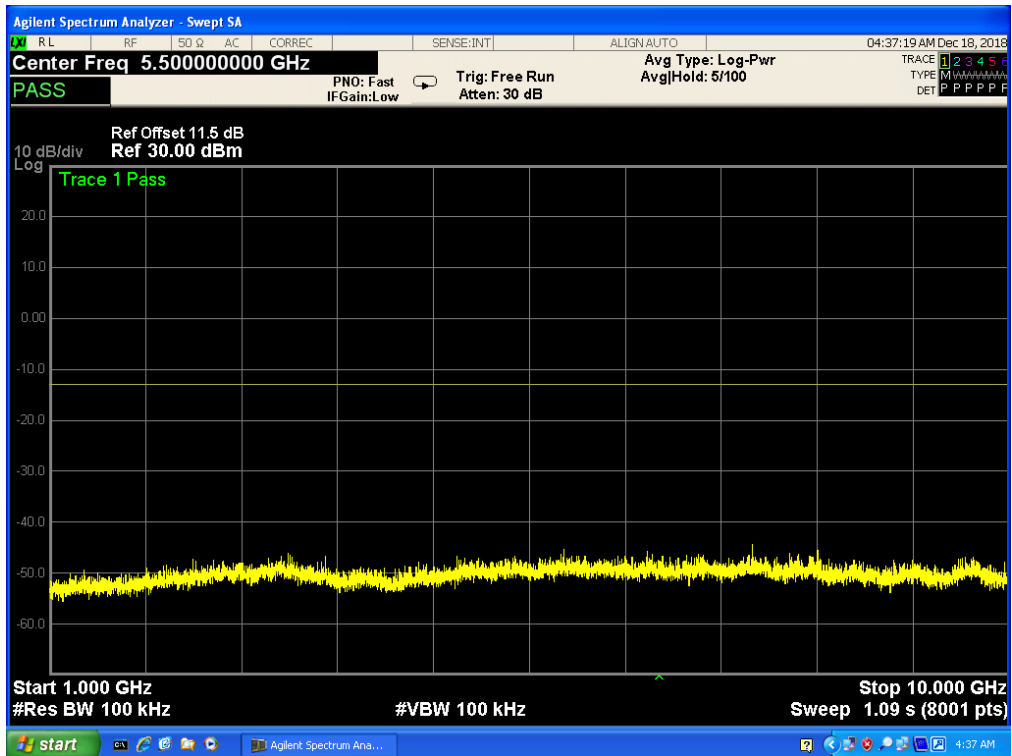
Band 17, UL Channel 23825, UL Frequency 713.5, BW 5.0, NO. RB 25, RB POS. Low, 16-QAM



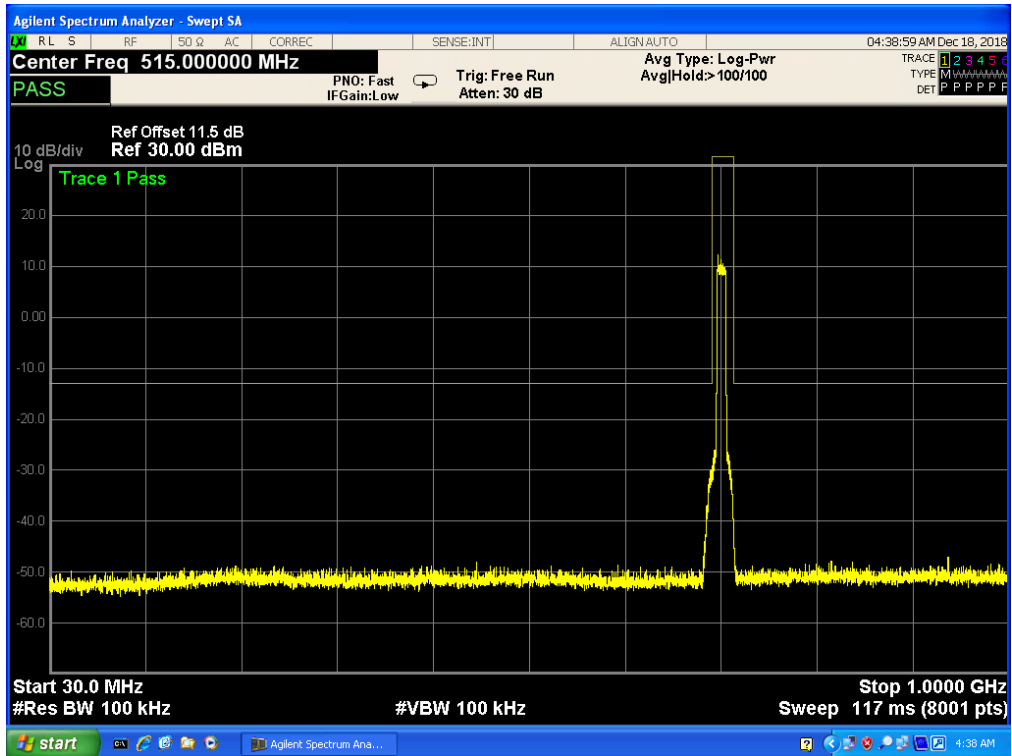
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



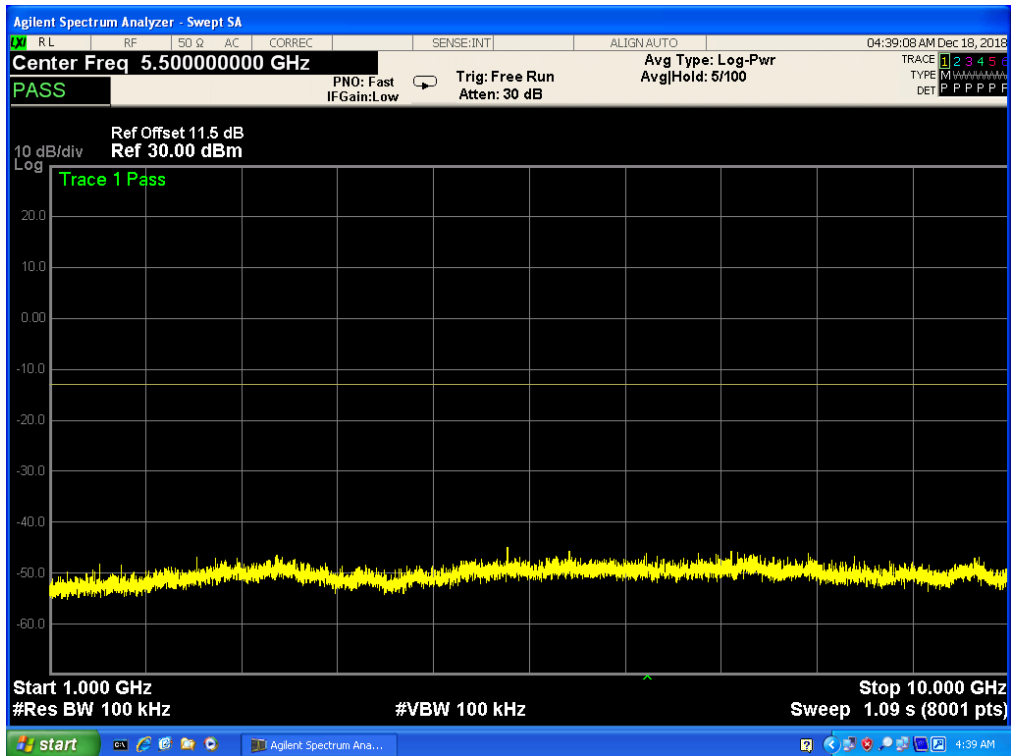
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



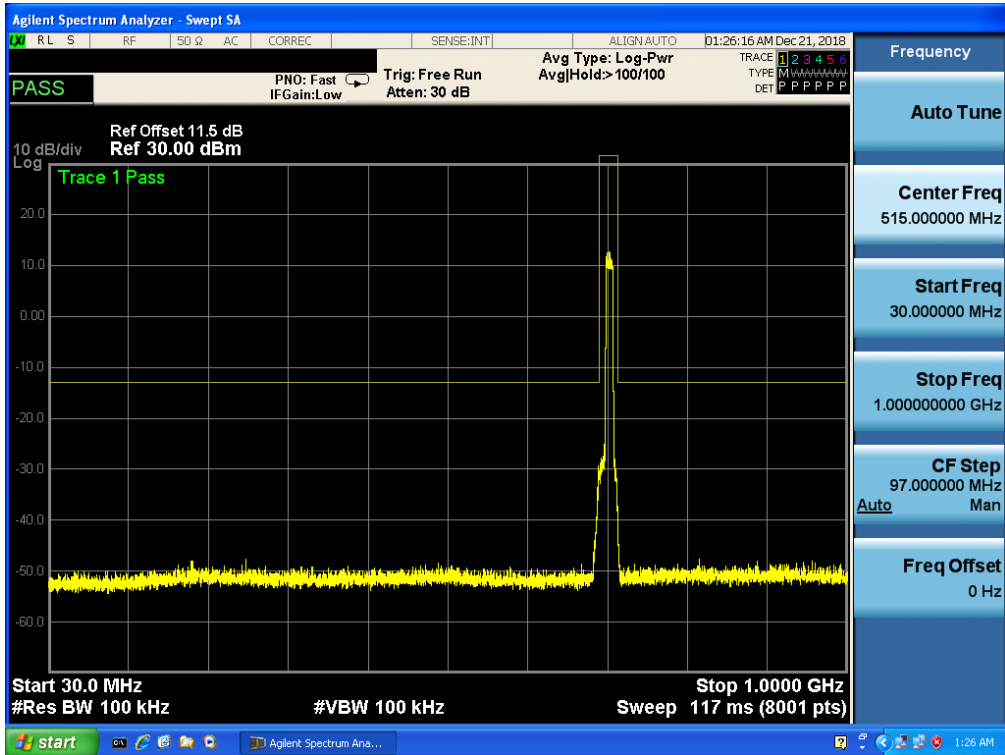
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



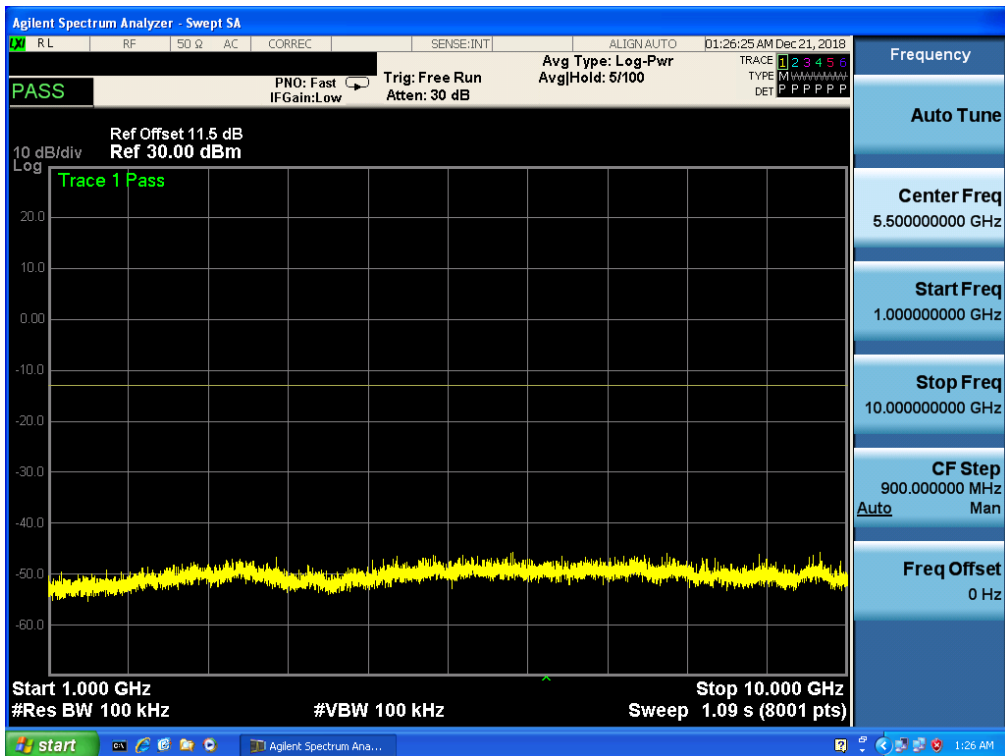
Band 17, UL Channel 23780, UL Frequency 709.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



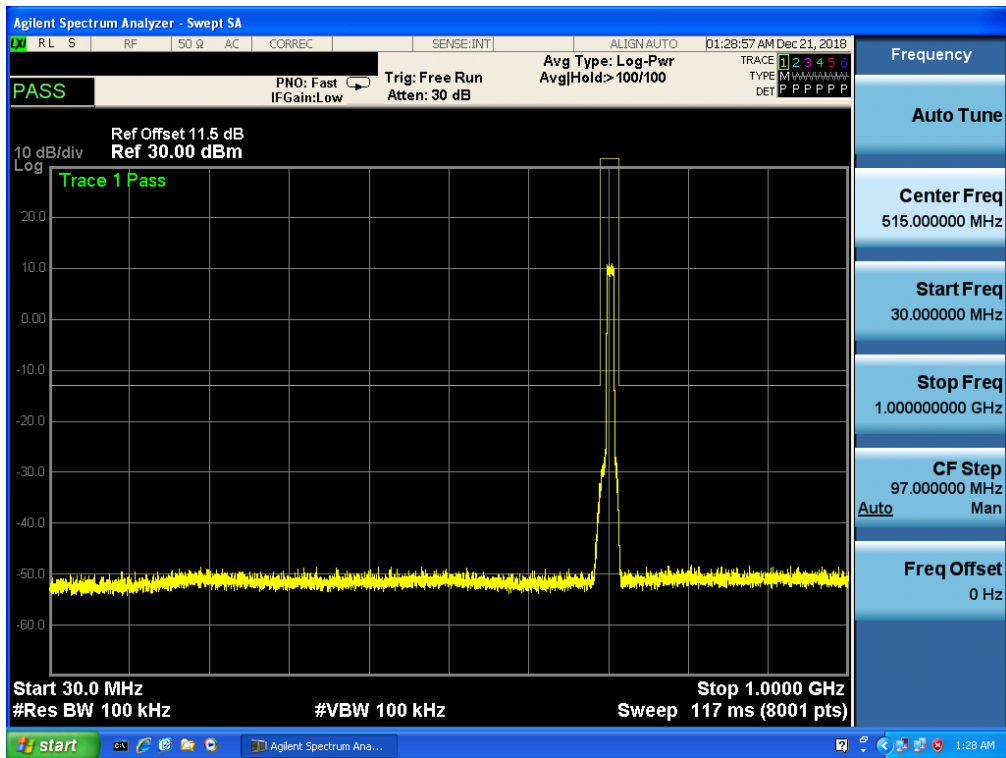
Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



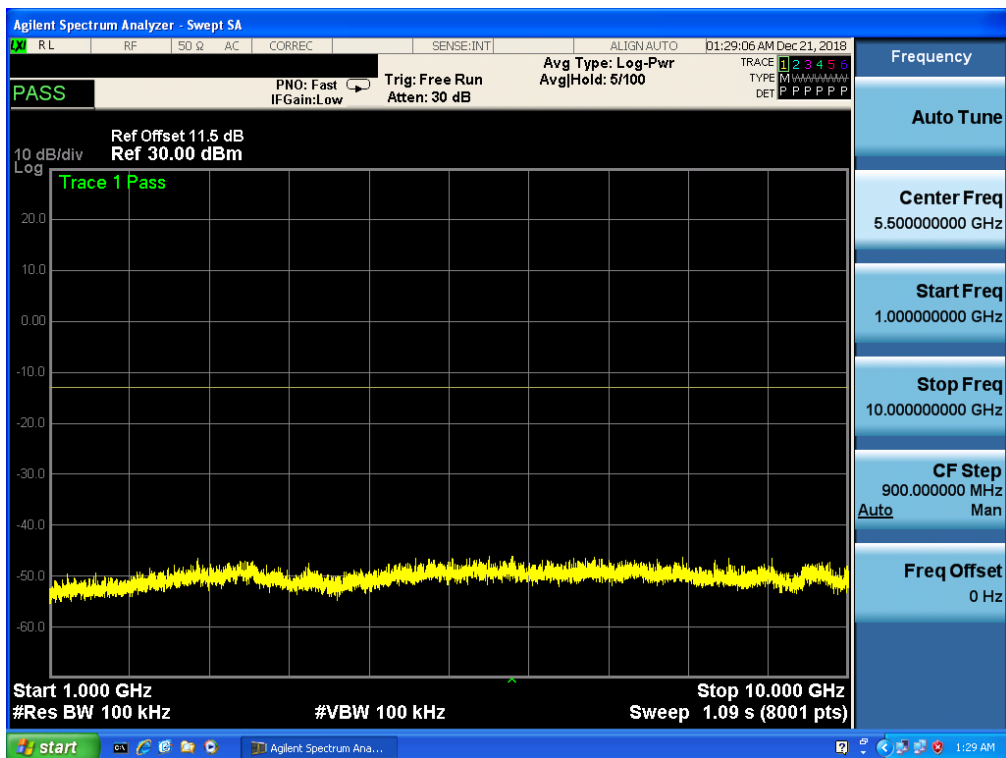
Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, QPSK



Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



Band 17, UL Channel 23800, UL Frequency 711.0, BW 10.0, NO. RB 50, RB POS. Low, 16-QAM



## 8. Radiated Spurious Emission

### 8.1. RADIATED POWER (ERP & EIRP)

#### RULE PART(S)

FCC: §2.1046, §22.913, §24.232 and §27.50

#### LIMITS:

22.913(a) - The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

27.50 (c) (10) the following power and antenna height requirements apply to stations transmitting in the 698–746 MHz band, the portable stations (hand-held devices) are limited to 3 watts ERP.

27.50 (b)(10) Portable stations (hand-held devices) transmitting in the 746–757 MHz, 758–763 MHz, 776–793 MHz, and 805–806 MHz bands are limited to 3 watts ERP.

27.50 (d)(4) The following power and antenna height requirements apply to stations transmitting in the 1710–1755 MHz and 2110–2155 MHz bands: Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

#### TEST PROCEDURE

ANSI/TIA-603-E Clause 2.2.17

KDB 971168 v02r01 RF power output using broadband peak and average power meter method.

KDB 971168 D01 Power Meas License Digital Systems v02r01, "Measurement Guidance for Certification of Licensed Digital Transmitters"

#### MODES TESTED

- LTE Band 2
- LTE Band 4
- LTE Band5
- LTE Band 7
- LTE Band 12
- LTE Band 17

#### RESULTS

8.2 LTE BAND 2

Radiated Power (EIRP) for Band 2										
Mode	RB/ RB SIZE	Frequency	Result						Polarizati on Of Max. ERP	Conclusio n
			SG Level (dBm )	Cable Loss (dBm)	Antenn a Gain (dB)	Max. EIRP Avera ge (dBm)	Max. EIRP			
							Average (mW)			
1.4MHz Band QPSK	6/0	1850.7	-2.71	3.76	28.24	21.77	150.314	Vertical	Pass	
		1880	-2.55	3.91	28.22	21.76	149.968	Vertical	Pass	
		1909.3	-2.52	3.93	28.20	21.75	149.624	Vertical	Pass	
1.4MHz Band 16 QAM	6/0	1850.7	-3.61	3.76	28.24	20.87	122.180	Vertical	Pass	
		1880	-3.40	3.91	28.22	20.91	123.310	Vertical	Pass	
		1909.3	-3.31	3.93	28.20	20.96	124.738	Vertical	Pass	
3.0MHz Band QPSK	15/0	1851.5	-2.58	3.77	28.23	21.88	154.170	Vertical	Pass	
		1880	-2.39	3.91	28.24	21.94	156.315	Vertical	Pass	
		1908.5	-2.38	3.94	28.25	21.93	155.955	Vertical	Pass	
3.0MHz Band 16 QAM	15/0	1851.5	-3.60	3.77	28.23	20.86	121.899	Vertical	Pass	
		1880	-3.52	3.91	28.24	20.81	120.504	Vertical	Pass	
		1908.5	-3.32	3.94	28.25	20.99	125.603	Vertical	Pass	
5.0MHz Band QPSK	25/0	1852.5	-2.70	3.77	28.31	21.84	152.757	Vertical	Pass	
		1880	-2.40	3.91	28.22	21.91	155.239	Vertical	Pass	
		1907.5	-2.53	3.94	28.20	21.73	148.936	Vertical	Pass	
5.0MHz Band 16 QAM	25/0	1852.5	-3.66	3.77	28.31	20.88	122.462	Vertical	Pass	
		1880	-3.44	3.91	28.22	20.87	122.180	Vertical	Pass	
		1907.5	-3.29	3.94	28.20	20.97	125.026	Vertical	Pass	
10.0MH z Band QPSK	50/0	1855	-2.69	3.79	28.33	21.85	153.109	Vertical	Pass	
		1880	-2.46	3.95	28.22	21.81	151.705	Vertical	Pass	
		1905	-2.46	3.97	28.19	21.76	149.968	Vertical	Pass	
10.0MH z Band 16 QAM	50/0	1855	-3.73	3.79	28.33	20.81	120.504	Vertical	Pass	
		1880	-3.46	3.95	28.22	20.81	120.504	Vertical	Pass	
		1905	-3.55	3.97	28.19	20.67	116.681	Vertical	Pass	
15.0MH z Band QPSK	75/0	1857.5	-2.64	3.79	28.34	21.91	155.239	Vertical	Pass	
		1880	-2.36	3.95	28.22	21.91	155.239	Vertical	Pass	
		1902.5	-2.16	3.97	28.18	22.05	160.325	Vertical	Pass	
15.0MH z Band 16 QAM	75/0	1857.5	-3.77	3.79	28.34	20.78	119.674	Vertical	Pass	
		1880	-3.44	3.95	28.22	20.83	121.060	Vertical	Pass	
		1902.5	-3.43	3.97	28.18	20.78	119.674	Vertical	Pass	

20.0MH z Band QPSK	100/ 0	1860	-2.70	3.81	28.35	21.84	152.757	Vertical	Pass
		1880	-2.49	3.96	28.22	21.77	150.314	Vertical	Pass
		1900	-2.17	4.00	28.16	21.99	158.125	Vertical	Pass
20.0MH z Band 16 QAM	100/ 0	1860	-3.65	3.81	28.35	20.89	122.744	Vertical	Pass
		1880	-3.29	3.96	28.22	20.97	125.026	Vertical	Pass
		1900	-3.31	4.00	28.16	20.85	121.619	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)



Radiated Power (EIRP) for Band 2									
Mode	RB/ RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm )	Cable Loss (dBm)	Anten na Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP Averag e (mW)	Polarizati on Of Max. ERP	
1.4MHz Band QPSK	6/0	1850.7	-2.67	3.76	28.24	21.81	151.705	Horizontal	Pass
		1880	-2.45	3.91	28.22	21.86	153.462	Horizontal	Pass
		1909.3	-2.42	3.93	28.20	21.85	153.109	Horizontal	Pass
1.4MHz Band 16 QAM	6/0	1850.7	-3.54	3.76	28.24	20.94	124.165	Horizontal	Pass
		1880	-3.35	3.91	28.22	20.96	124.738	Horizontal	Pass
		1909.3	-3.35	3.93	28.20	20.92	123.595	Horizontal	Pass
3.0MHz Band QPSK	15/0	1851.5	-2.63	3.77	28.23	21.83	152.405	Horizontal	Pass
		1880	-2.49	3.91	28.24	21.84	152.757	Horizontal	Pass
		1908.5	-2.48	3.94	28.25	21.83	152.405	Horizontal	Pass
3.0MHz Band 16 QAM	15/0	1851.5	-3.65	3.77	28.23	20.81	120.504	Horizontal	Pass
		1880	-3.48	3.91	28.24	20.85	121.619	Horizontal	Pass
		1908.5	-3.42	3.94	28.25	20.89	122.744	Horizontal	Pass
5.0MHz Band QPSK	25/0	1852.5	-2.80	3.77	28.31	21.74	149.279	Horizontal	Pass
		1880	-2.52	3.91	28.22	21.79	151.008	Horizontal	Pass
		1907.5	-2.63	3.94	28.20	21.63	145.546	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	1852.5	-3.70	3.77	28.31	20.84	121.339	Horizontal	Pass
		1880	-3.34	3.91	28.22	20.97	125.026	Horizontal	Pass
		1907.5	-3.38	3.94	28.20	20.88	122.462	Horizontal	Pass
10.0MH z Band QPSK	50/0	1855	-2.73	3.79	28.33	21.81	151.705	Horizontal	Pass
		1880	-2.38	3.95	28.22	21.89	154.525	Horizontal	Pass
		1905	-2.36	3.97	28.19	21.86	153.462	Horizontal	Pass
10.0MH z Band 16 QAM	50/0	1855	-3.65	3.79	28.33	20.89	122.744	Horizontal	Pass
		1880	-3.29	3.95	28.22	20.98	125.314	Horizontal	Pass
		1905	-3.43	3.97	28.19	20.79	119.950	Horizontal	Pass
15.0MH z Band QPSK	75/0	1857.5	-2.56	3.79	28.34	21.99	158.125	Horizontal	Pass
		1880	-2.28	3.95	28.22	21.99	158.125	Horizontal	Pass
		1902.5	-2.19	3.97	28.18	22.02	159.221	Horizontal	Pass
15.0MH z Band 16 QAM	75/0	1857.5	-3.71	3.79	28.34	20.84	121.339	Horizontal	Pass
		1880	-3.40	3.95	28.22	20.87	122.180	Horizontal	Pass
		1902.5	-3.30	3.97	28.18	20.91	123.310	Horizontal	Pass
20.0MH z Band	100/ 0	1860	-2.79	3.81	28.35	21.75	149.624	Horizontal	Pass
		1880	-2.44	3.96	28.22	21.82	152.055	Horizontal	Pass

QPSK		1900	-2.25	4.00	28.16	21.91	155.239	Horizontal	Pass
20.0MHz Band 16 QAM	100/0	1860	-3.62	3.81	28.35	20.92	123.595	Horizontal	Pass
		1880	-3.30	3.96	28.22	20.96	124.738	Horizontal	Pass
		1900	-3.34	4.00	28.16	20.82	120.781	Horizontal	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

8.3 LTE BAND 4

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	6/0	1710.7	-2.62	3.12	27.58	21.84	152.757	Vertical	Pass
		1732.5	-2.57	3.27	27.61	21.77	150.314	Vertical	Pass
		1754.3	-2.42	3.29	27.63	21.92	155.597	Vertical	Pass
1.4MHz Band 16 QAM	6/0	1710.7	-3.55	3.12	27.58	20.91	123.310	Vertical	Pass
		1732.5	-3.40	3.27	27.61	20.94	124.165	Vertical	Pass
		1754.3	-3.46	3.29	27.63	20.88	122.462	Vertical	Pass
3.0MHz Band QPSK	15/0	1711.5	-2.56	3.13	27.61	21.92	155.597	Vertical	Pass
		1732.5	-2.40	3.27	27.61	21.94	156.315	Vertical	Pass
		1753.5	-2.47	3.30	27.62	21.85	153.109	Vertical	Pass
3.0MHz Band 16 QAM	15/0	1711.5	-3.15	3.13	27.61	21.33	135.831	Vertical	Pass
		1732.5	-3.09	3.27	27.61	21.25	133.352	Vertical	Pass
		1753.5	-3.01	3.30	27.62	21.31	135.207	Vertical	Pass
5.0MHz Band QPSK	25/0	1712.5	-2.29	3.13	27.63	22.21	166.341	Vertical	Pass
		1732.5	-2.15	3.27	27.61	22.19	165.577	Vertical	Pass
		1752.5	-2.19	3.30	27.60	22.11	162.555	Vertical	Pass
5.0MHz Band 16 QAM	25/0	1712.5	-3.38	3.13	27.63	21.12	129.420	Vertical	Pass
		1732.5	-3.16	3.27	27.61	21.18	131.220	Vertical	Pass
		1752.5	-3.14	3.30	27.60	21.16	130.617	Vertical	Pass
10.0MHz Band QPSK	50/0	1715	-2.51	3.15	27.64	21.98	157.761	Vertical	Pass
		1732.5	-2.34	3.31	27.61	21.96	157.036	Vertical	Pass
		1750	-2.34	3.33	27.59	21.92	155.597	Vertical	Pass
10.0MHz Band 16 QAM	50/0	1715	-3.55	3.15	27.64	20.94	124.165	Vertical	Pass
		1732.5	-3.29	3.31	27.61	21.01	126.183	Vertical	Pass
		1750	-3.42	3.33	27.59	20.84	121.339	Vertical	Pass
15.0MHz Band QPSK	75/0	1717.5	-2.67	3.15	27.65	21.83	152.405	Vertical	Pass
		1732.5	-2.28	3.31	27.61	22.02	159.221	Vertical	Pass
		1747.5	-2.30	3.33	27.57	21.94	156.315	Vertical	Pass
15.0MHz Band 16 QAM	75/0	1717.5	-3.63	3.15	27.65	20.87	122.180	Vertical	Pass
		1732.5	-3.44	3.31	27.61	20.86	121.899	Vertical	Pass
		1747.5	-3.46	3.33	27.57	20.78	119.674	Vertical	Pass

20.0MH z Band QPSK	100/0	1720	-2.58	3.17	27.66	21.91	155.239	Vertical	Pass
		1732.5	-2.35	3.32	27.61	21.94	156.315	Vertical	Pass
		1745	-2.36	3.36	27.56	21.84	152.757	Vertical	Pass
20.0MH z Band 16 QAM	100/0	1720	-3.55	3.17	27.66	20.94	124.165	Vertical	Pass
		1732.5	-3.44	3.32	27.61	20.85	121.619	Vertical	Pass
		1745	-3.21	3.36	27.56	20.99	125.603	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Antenna Gain (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	6/0	1710.7	-2.65	3.12	27.58	21.81	151.705	Horizontal	Pass
		1732.5	-2.70	3.27	27.61	21.64	145.881	Horizontal	Pass
		1754.3	-2.39	3.29	27.63	21.95	156.675	Horizontal	Pass
1.4MHz Band 16 QAM	6/0	1710.7	-3.50	3.12	27.58	20.96	124.738	Horizontal	Pass
		1732.5	-3.38	3.27	27.61	20.96	124.738	Horizontal	Pass
		1754.3	-3.43	3.29	27.63	20.91	123.310	Horizontal	Pass
3.0MHz Band QPSK	15/0	1711.5	-2.67	3.13	27.61	21.81	151.705	Horizontal	Pass
		1732.5	-2.50	3.27	27.61	21.84	152.757	Horizontal	Pass
		1753.5	-2.49	3.30	27.62	21.83	152.405	Horizontal	Pass
3.0MHz Band 16 QAM	15/0	1711.5	-3.25	3.13	27.61	21.23	132.739	Horizontal	Pass
		1732.5	-3.13	3.27	27.61	21.21	132.130	Horizontal	Pass
		1753.5	-3.10	3.30	27.62	21.22	132.434	Horizontal	Pass
5.0MHz Band QPSK	25/0	1712.5	-2.33	3.13	27.63	22.17	164.816	Horizontal	Pass
		1732.5	-2.18	3.27	27.61	22.16	164.437	Horizontal	Pass
		1752.5	-2.21	3.30	27.60	22.09	161.808	Horizontal	Pass
5.0MHz Band 16 QAM	25/0	1712.5	-3.43	3.13	27.63	21.07	127.938	Horizontal	Pass
		1732.5	-3.25	3.27	27.61	21.09	128.529	Horizontal	Pass
		1752.5	-3.25	3.30	27.60	21.05	127.350	Horizontal	Pass
10.0MHz Band QPSK	50/0	1715	-2.48	3.15	27.64	22.01	158.855	Horizontal	Pass
		1732.5	-2.39	3.31	27.61	21.91	155.239	Horizontal	Pass
		1750	-2.27	3.33	27.59	21.99	158.125	Horizontal	Pass
10.0MHz Band 16 QAM	50/0	1715	-3.60	3.15	27.64	20.89	122.744	Horizontal	Pass
		1732.5	-3.38	3.31	27.61	20.92	123.595	Horizontal	Pass
		1750	-3.48	3.33	27.59	20.78	119.674	Horizontal	Pass
15.0MHz Band QPSK	75/0	1717.5	-2.76	3.15	27.65	21.74	149.279	Horizontal	Pass
		1732.5	-2.34	3.31	27.61	21.96	157.036	Horizontal	Pass
		1747.5	-2.38	3.33	27.57	21.86	153.462	Horizontal	Pass
15.0MHz Band 16 QAM	75/0	1717.5	-3.53	3.15	27.65	20.97	125.026	Horizontal	Pass
		1732.5	-3.34	3.31	27.61	20.96	124.738	Horizontal	Pass
		1747.5	-3.25	3.33	27.57	20.99	125.603	Horizontal	Pass
20.0MHz Band	100/0	1720	-2.54	3.17	27.66	21.95	156.675	Horizontal	Pass
		1732.5	-2.40	3.32	27.61	21.89	154.525	Horizontal	Pass

QPSK		1745	-2.45	3.36	27.56	21.75	149.624	Horizontal	Pass
20.0MH	100/0	1720	-3.66	3.17	27.66	20.83	121.060	Horizontal	Pass
z Band		1732.5	-3.48	3.32	27.61	20.81	120.504	Horizontal	Pass
16 QAM		1745	-3.28	3.36	27.56	20.92	123.595	Horizontal	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)

8.4 LTE BAND 5

Radiated Power (ERP) for Band 5										
Mode	RB/ RB SIZE	Frequ ncy	Result							Conclu sion
			SG Level (dBm)	Cable Loss (dBm)	Anten na Gain (dB)	Corre ction (dB)	Max. EIRP Averag e (dBm)	Max. EIRP Averag e (mW)	Polarizati on Of Max. ERP	
1.4MHz Band QPSK	6/0	824.7	5.79	2.01	19.68	2.15	21.31	135.207	Vertical	Pass
		836.5	5.67	2.01	19.77	2.15	21.28	134.276	Vertical	Pass
		848.3	5.69	2.02	19.82	2.15	21.34	136.144	Vertical	Pass
1.4MHz Band 16 QAM	6/0	824.7	4.63	2.01	19.68	2.15	20.15	103.514	Vertical	Pass
		836.5	4.52	2.01	19.77	2.15	20.13	103.039	Vertical	Pass
		848.3	4.56	2.02	19.82	2.15	20.21	104.954	Vertical	Pass
3.0MHz Band QPSK	15/0	825.5	5.77	2.01	19.70	2.15	21.31	135.207	Vertical	Pass
		836.5	5.63	2.01	19.77	2.15	21.24	133.045	Vertical	Pass
		847.5	5.62	2.02	19.81	2.15	21.26	133.660	Vertical	Pass
3.0MHz Band 16 QAM	15/0	825.5	4.73	2.01	19.70	2.15	20.27	106.414	Vertical	Pass
		836.5	4.70	2.01	19.77	2.15	20.31	107.399	Vertical	Pass
		847.5	4.57	2.02	19.81	2.15	20.21	104.954	Vertical	Pass
5.0MHz Band QPSK	25/0	826.5	5.57	2.01	19.71	2.15	21.12	129.420	Vertical	Pass
		836.5	5.45	2.01	19.77	2.15	21.06	127.644	Vertical	Pass
		846.5	5.53	2.02	19.79	2.15	21.15	130.317	Vertical	Pass
5.0MHz Band 16 QAM	25/0	826.5	4.76	2.01	19.71	2.15	20.31	107.399	Vertical	Pass
		836.5	4.76	2.01	19.77	2.15	20.37	108.893	Vertical	Pass
		846.5	4.60	2.02	19.79	2.15	20.22	105.196	Vertical	Pass
10.0MH z Band QPSK	50/0	829	5.65	2.01	19.73	2.15	21.22	132.434	Vertical	Pass
		836.5	5.57	2.01	19.77	2.15	21.18	131.220	Vertical	Pass
		844	5.60	2.02	19.78	2.15	21.21	132.130	Vertical	Pass
10.0MH z Band 16 QAM	50/0	829	4.90	2.01	19.73	2.15	20.47	111.429	Vertical	Pass
		836.5	4.85	2.01	19.77	2.15	20.46	111.173	Vertical	Pass
		844	4.77	2.02	19.78	2.15	20.38	109.144	Vertical	Pass

Note:

SG Level= Signal generator output

Max. EIRP Average (dBm)= Antenna Gain(dB)+ SG Level (dBm)- Cable Loss(dBm)