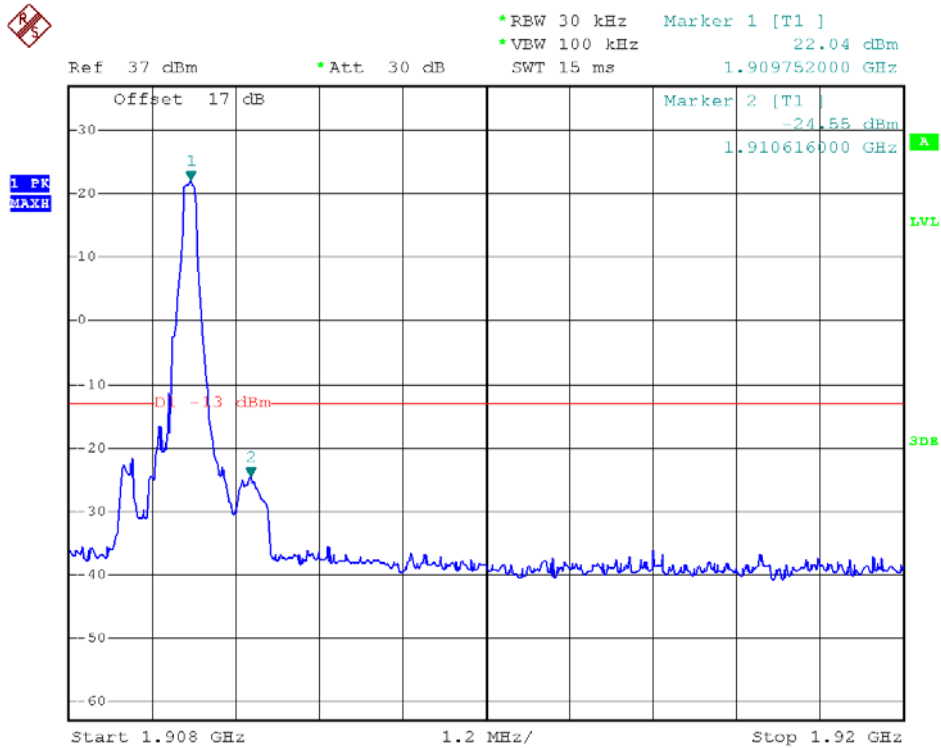




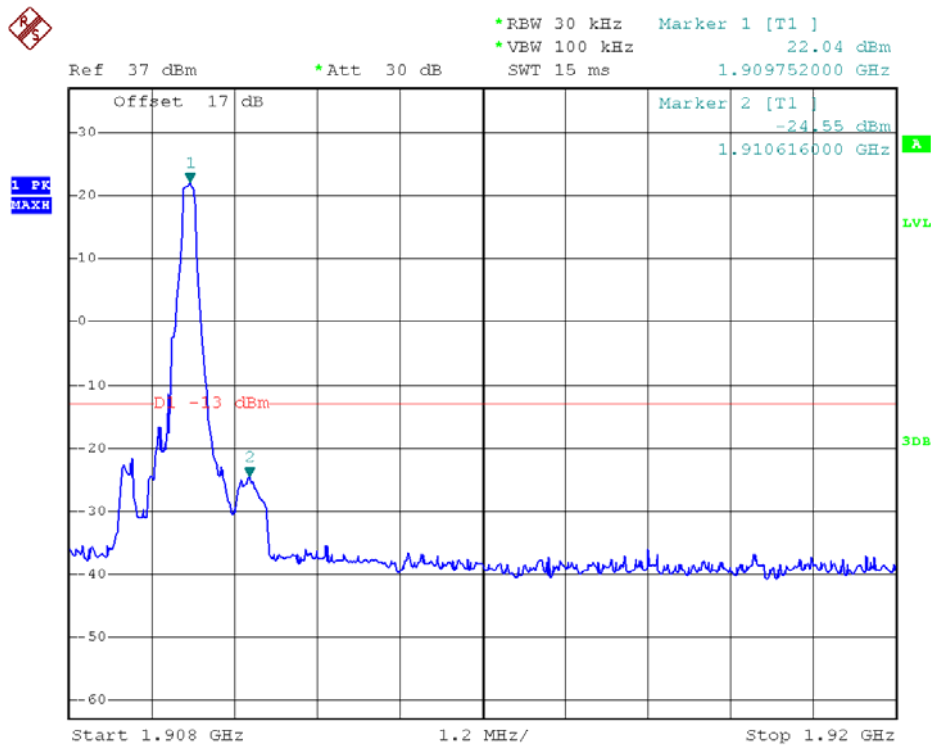
Band	LTE Band 2	Modulation	QPSK
Bandwidth	3MHz		



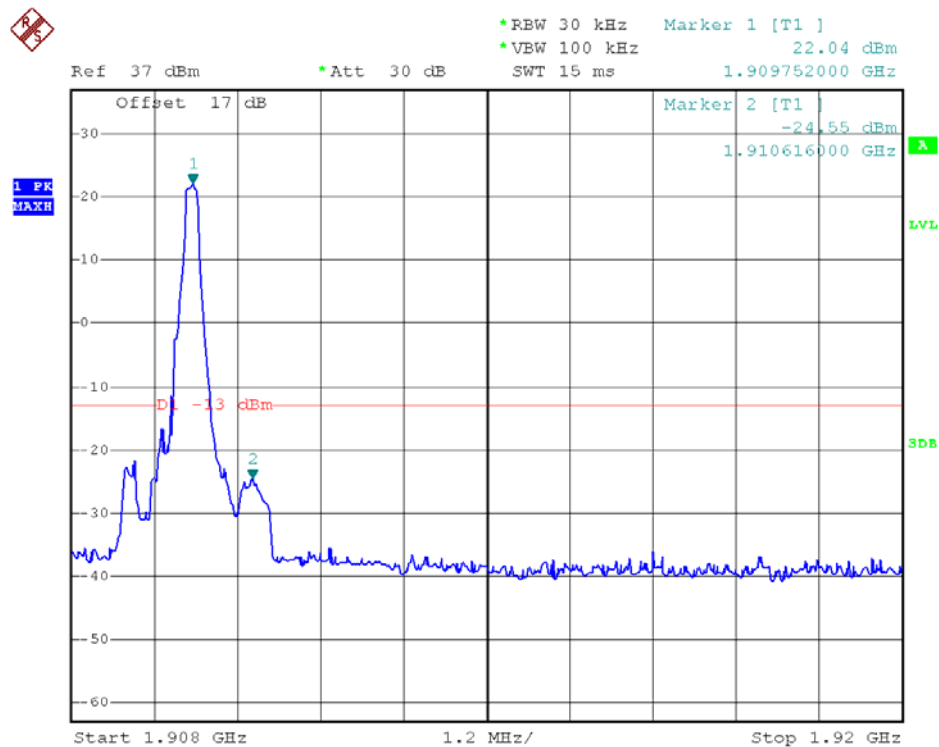
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



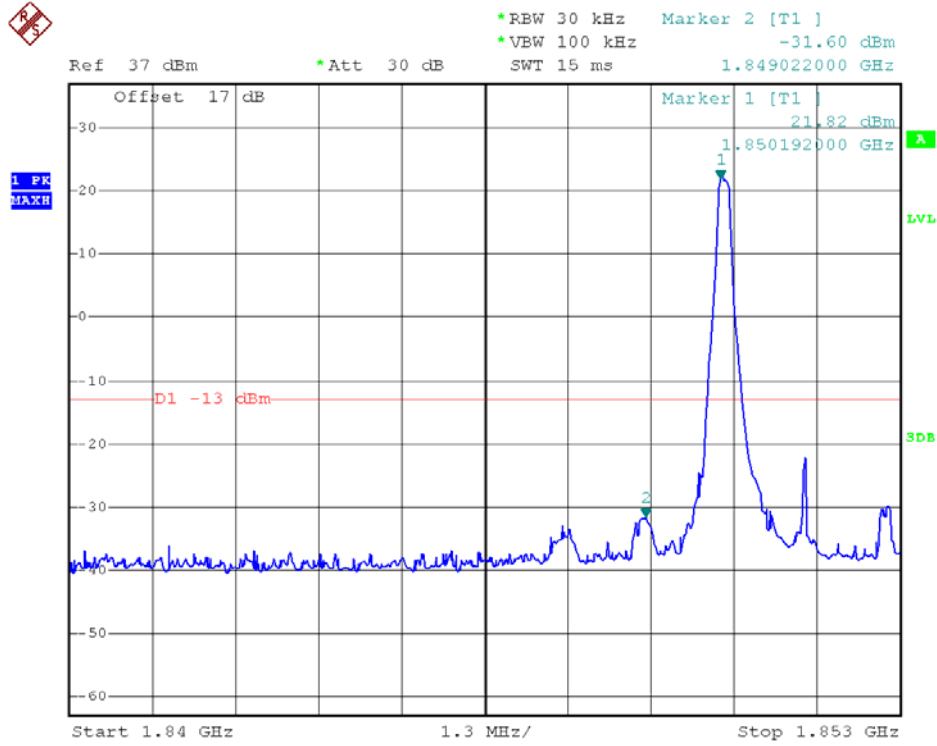
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



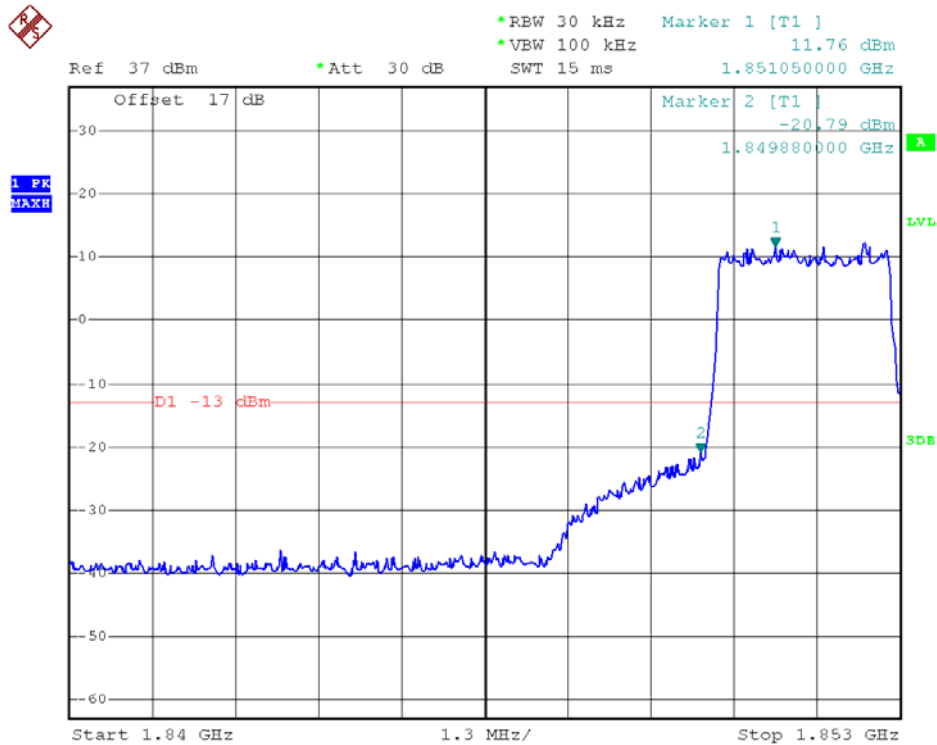
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



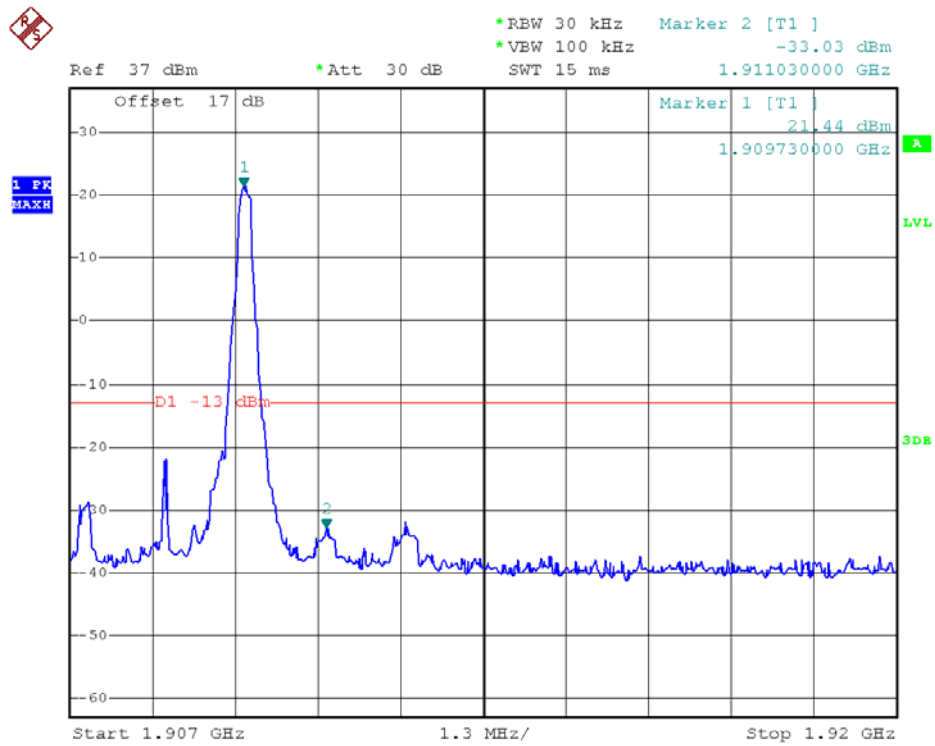
Band	LTE Band 2	Modulation	16QAM
Bandwidth	3MHz		



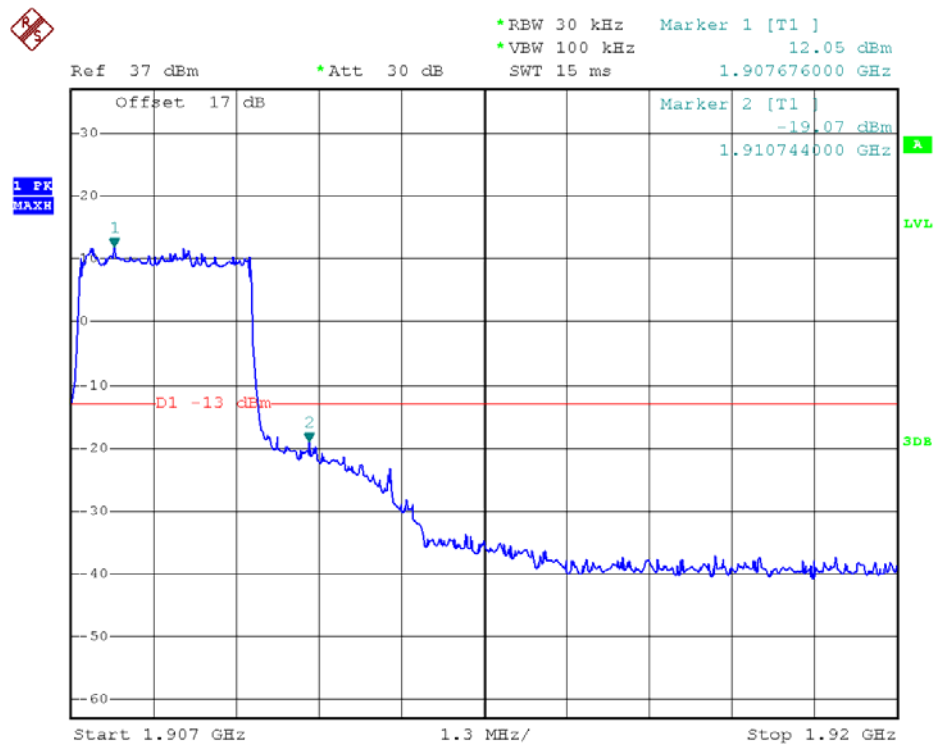
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



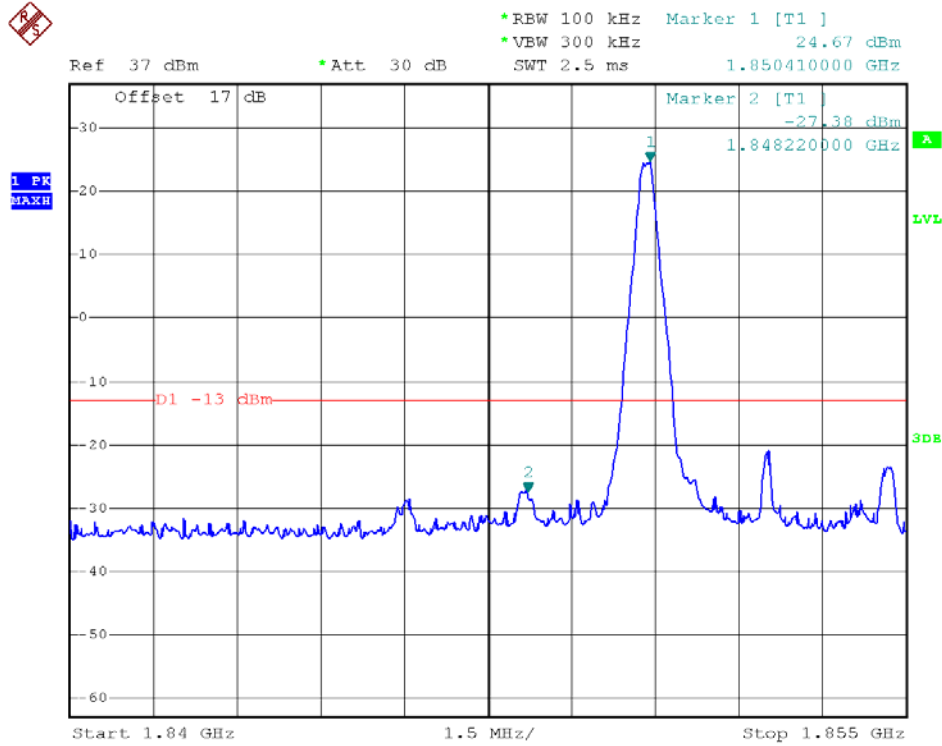
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 14



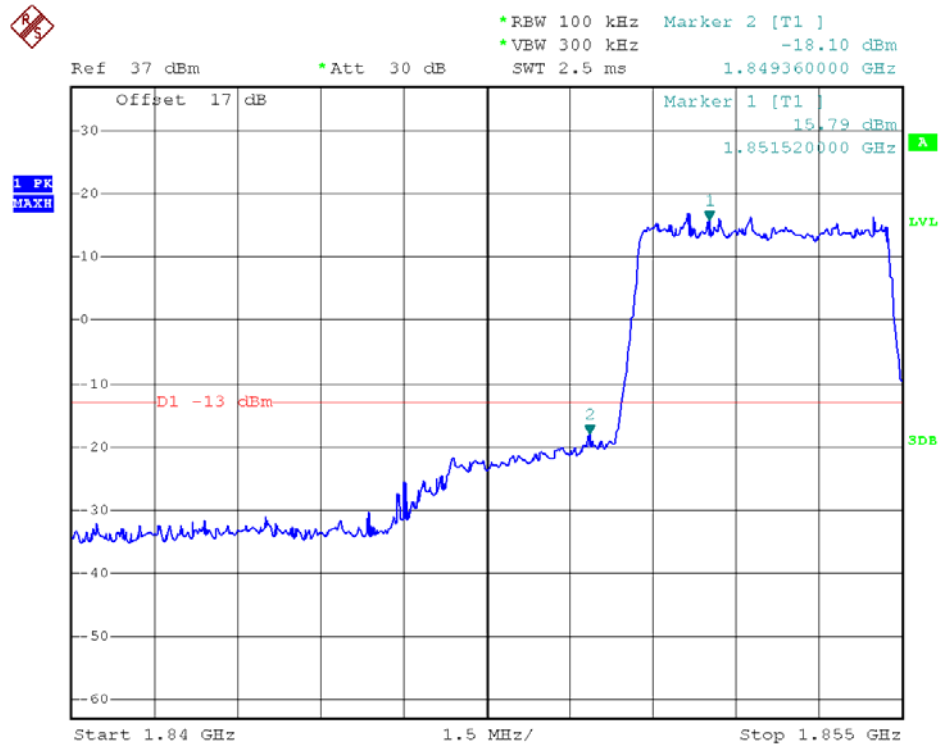
Higher Band Edge Plot for 16QAM-RB Size 15, RB Offset 0



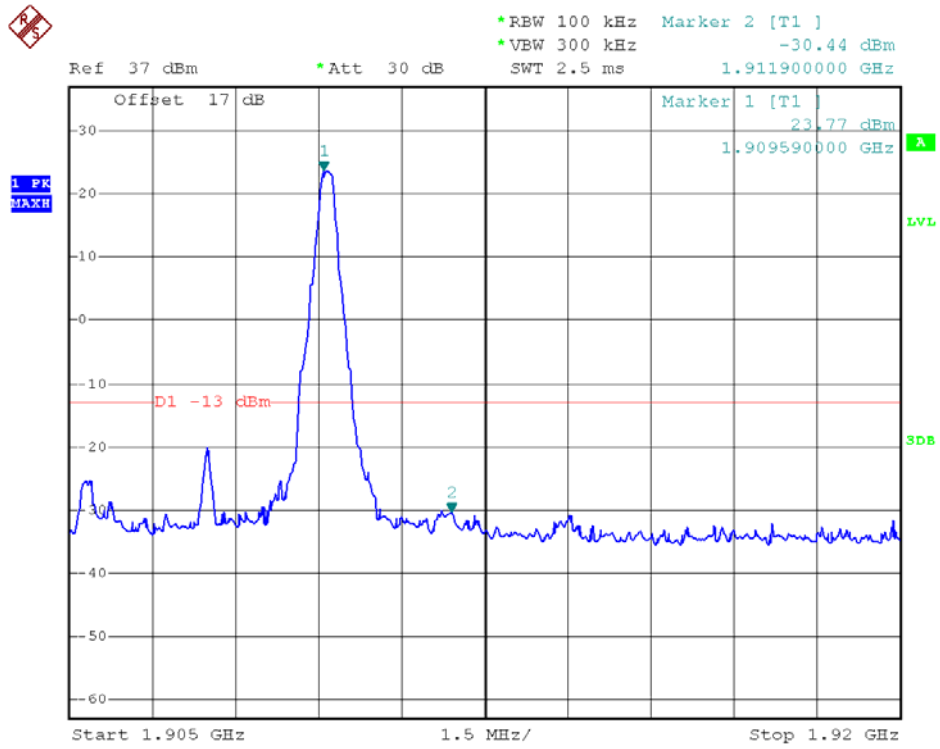
Band	LTE Band 2	Modulation	QPSK
Bandwidth	5MHz		



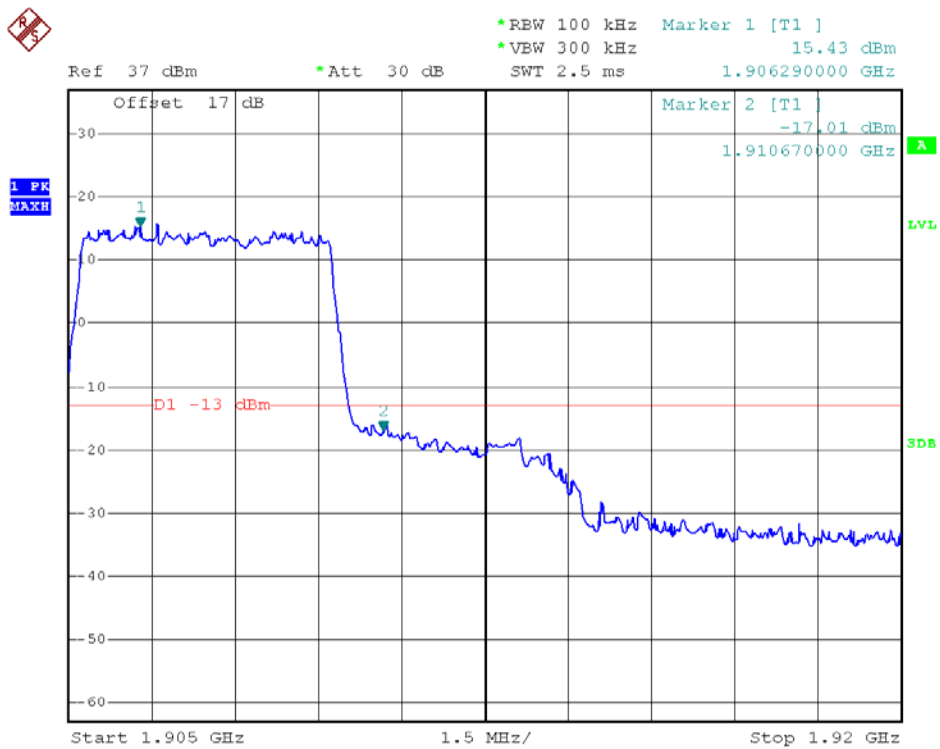
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



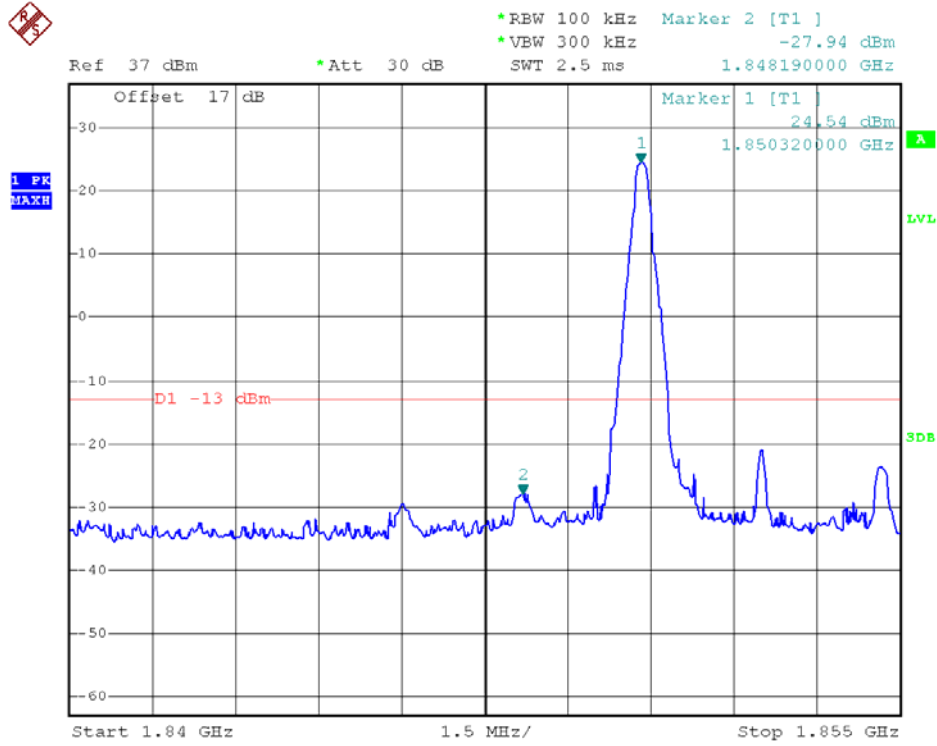
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



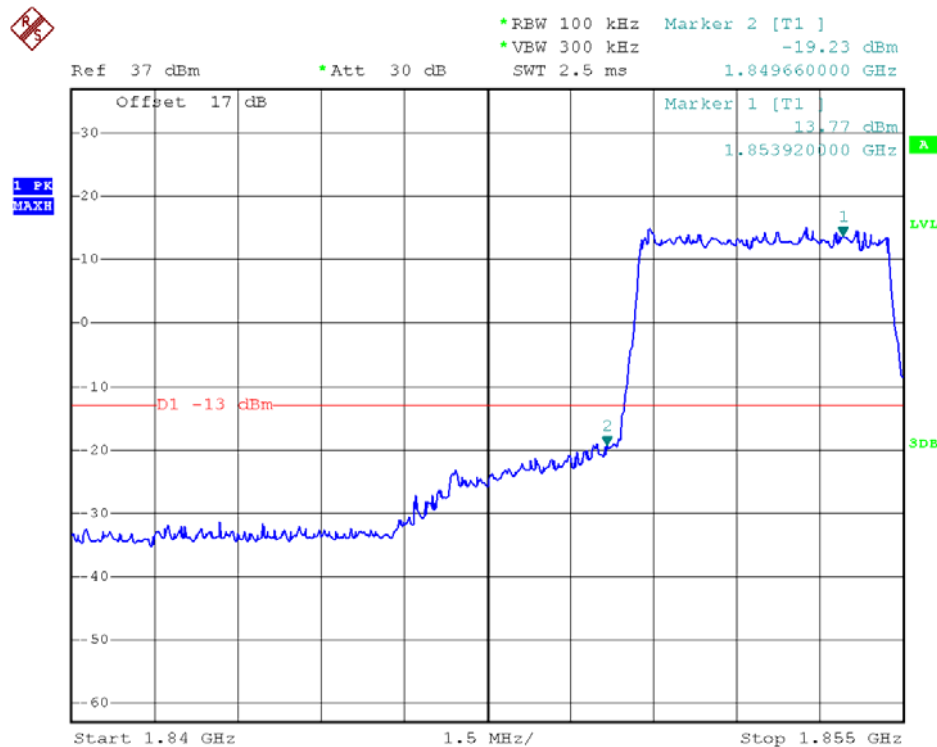
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



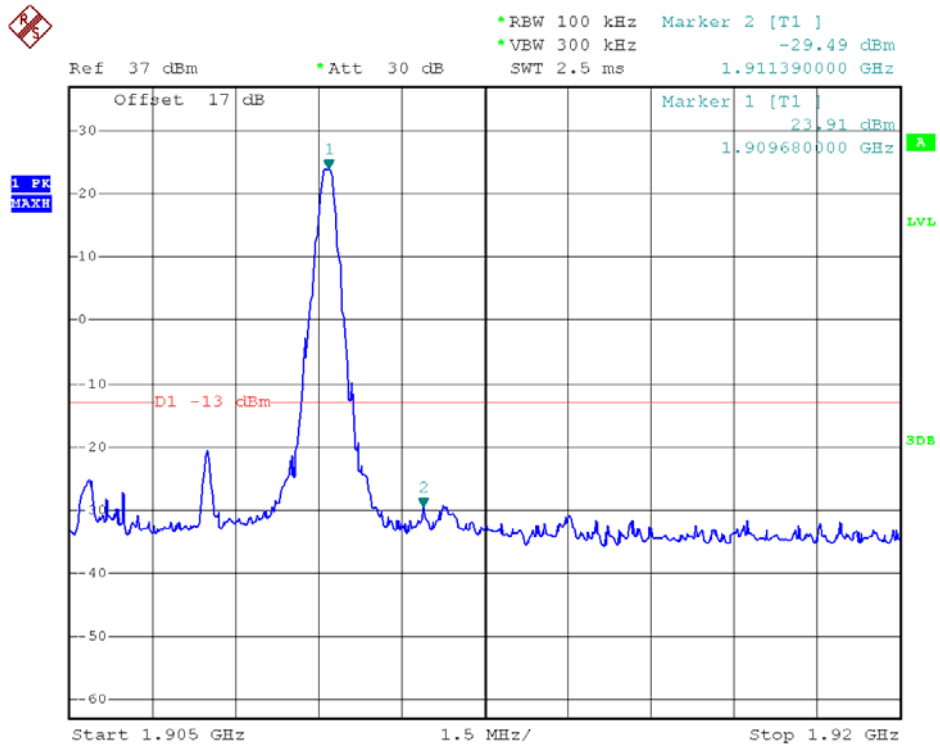
Band	LTE Band 2	Modulation	16QAM
Bandwidth	5MHz		



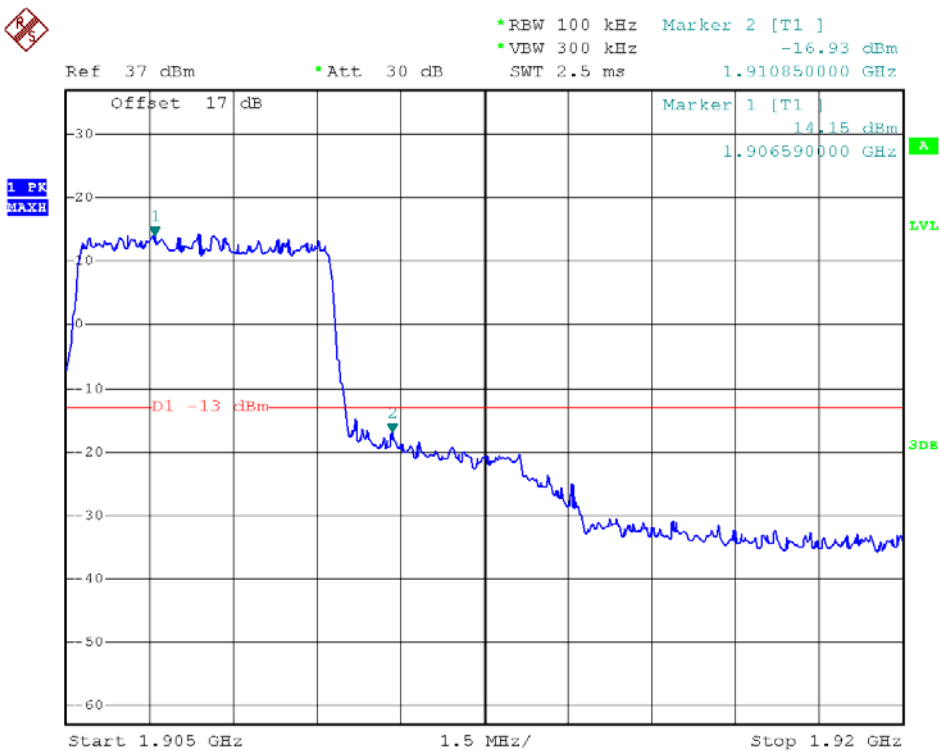
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



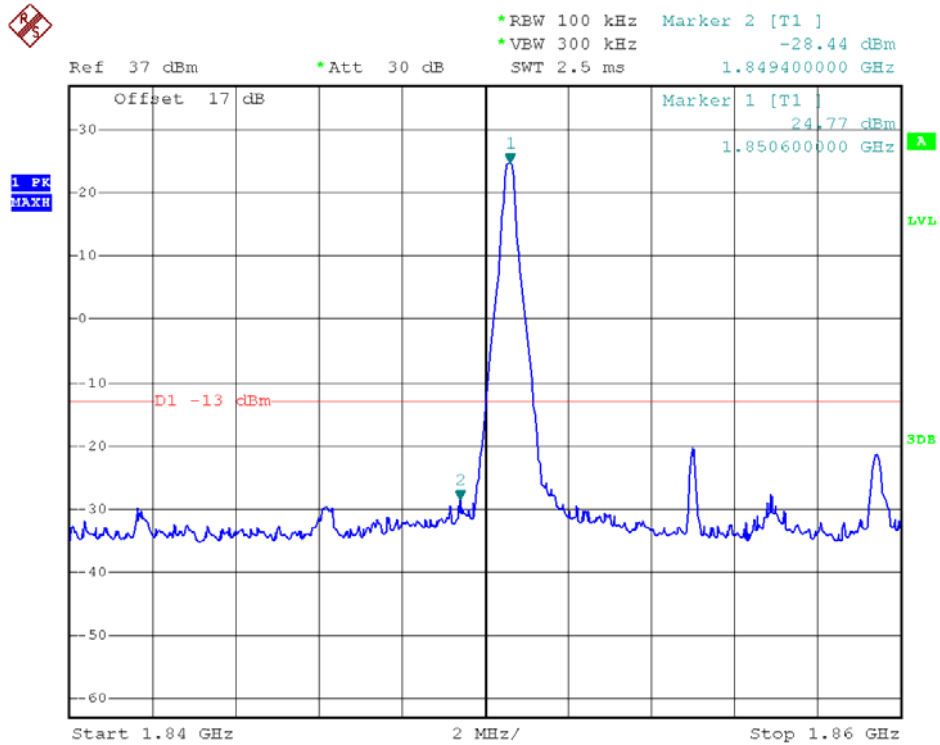
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 24



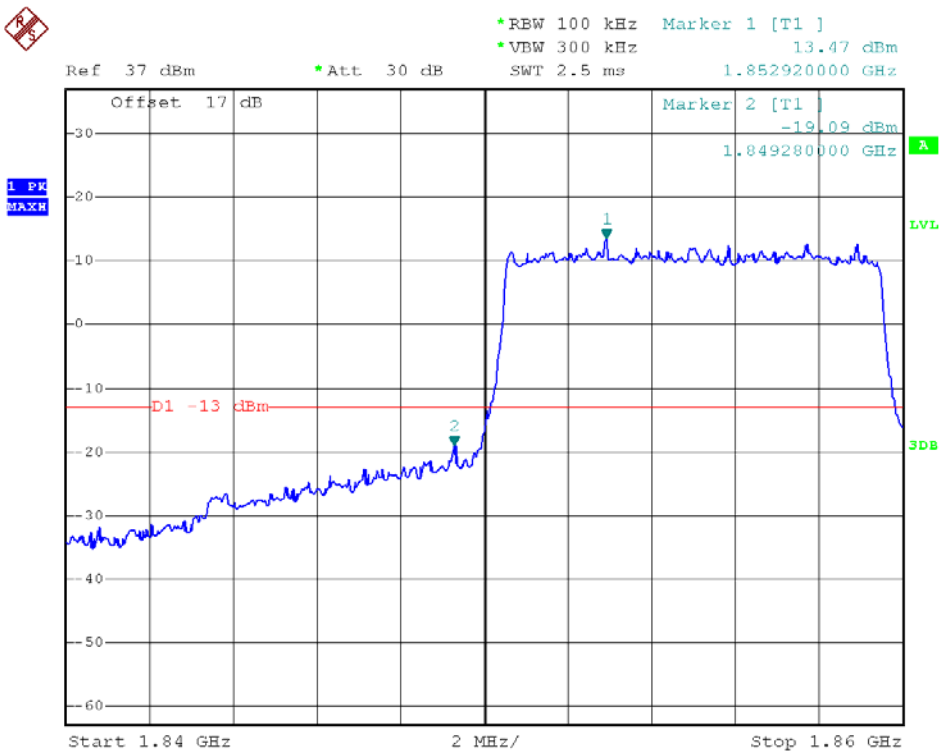
Higher Band Edge Plot for 16QAM-RB Size 25, RB Offset 0



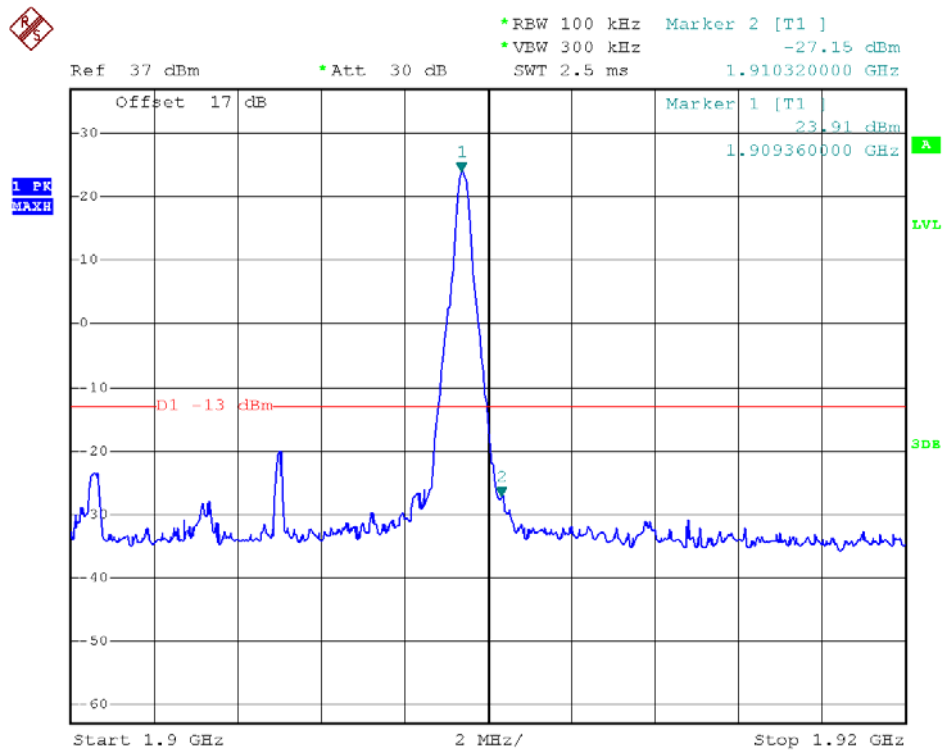
Band	LTE Band 2	Modulation	QPSK
Bandwidth	10MHz		



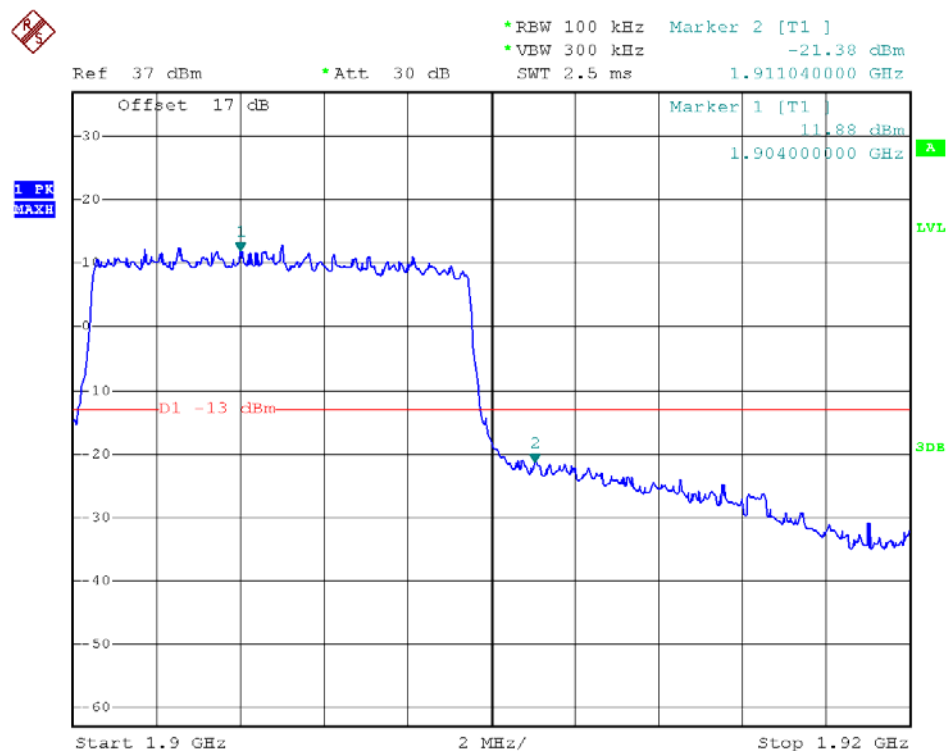
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



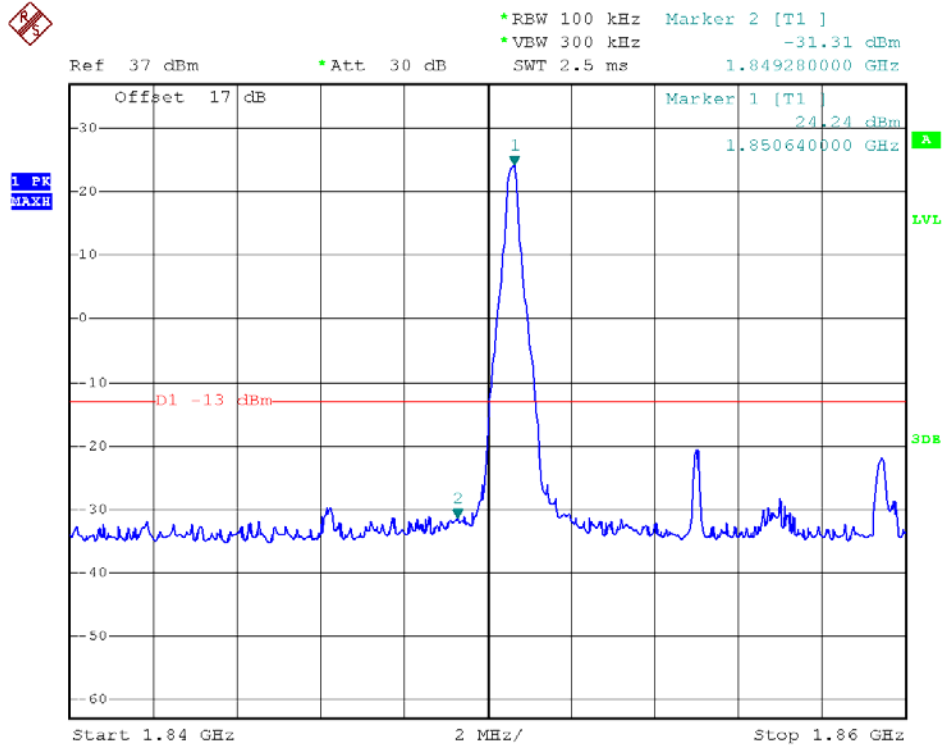
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



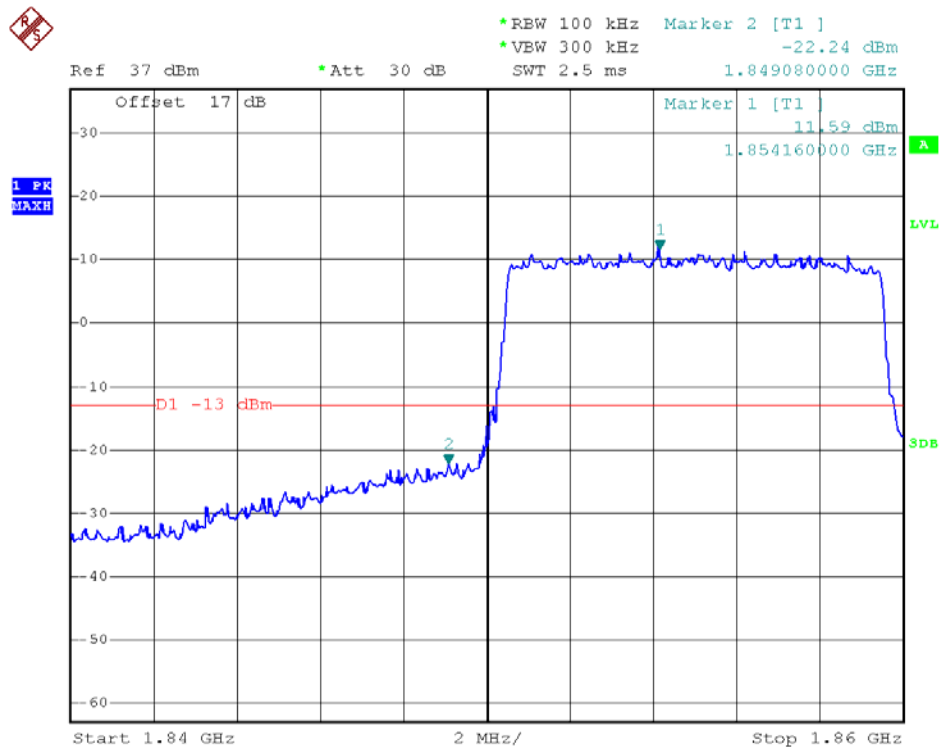
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



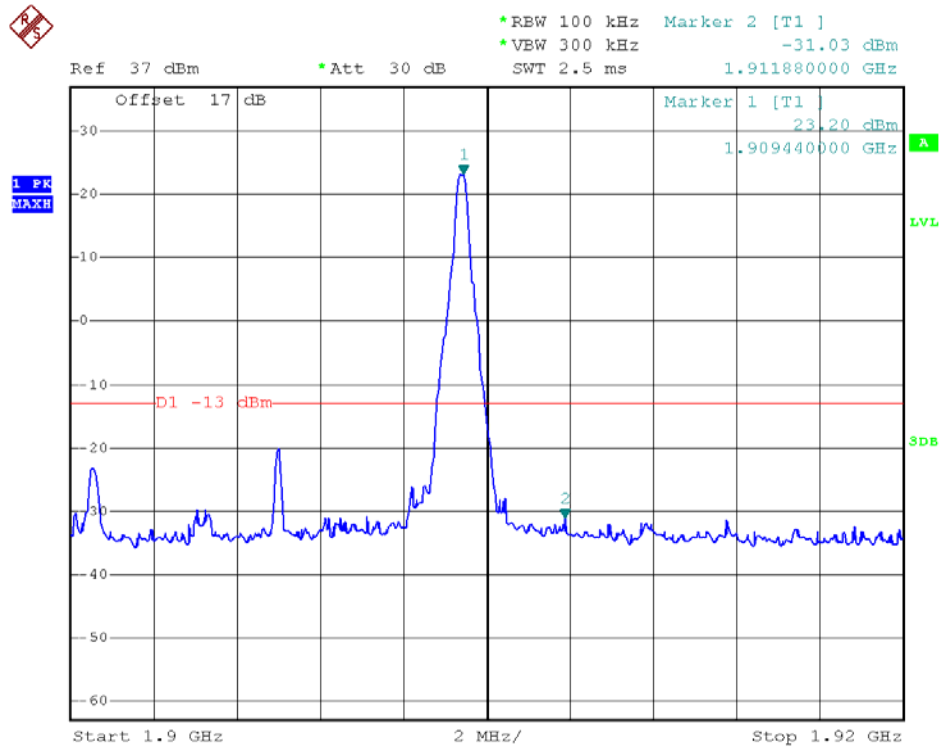
Band	LTE Band 2	Modulation	16QAM
Bandwidth	10MHz		



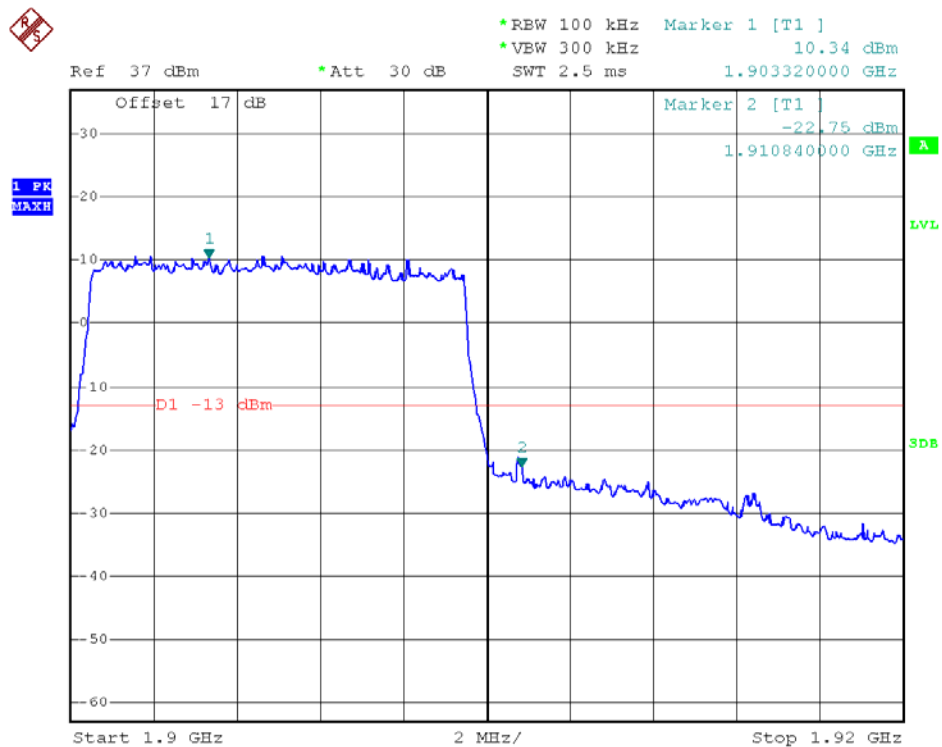
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



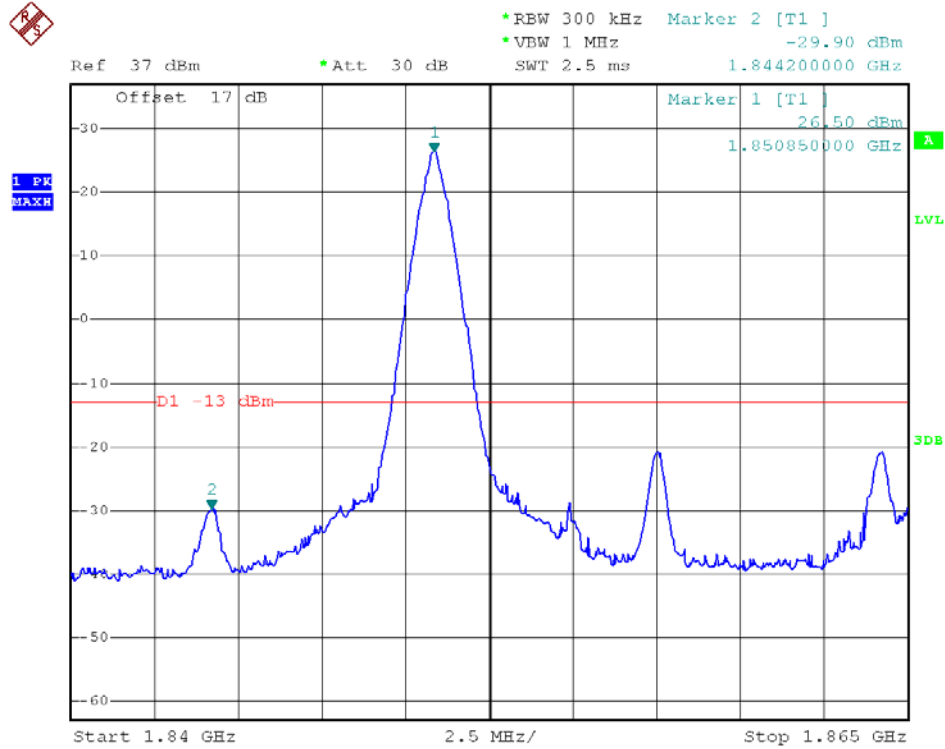
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 49



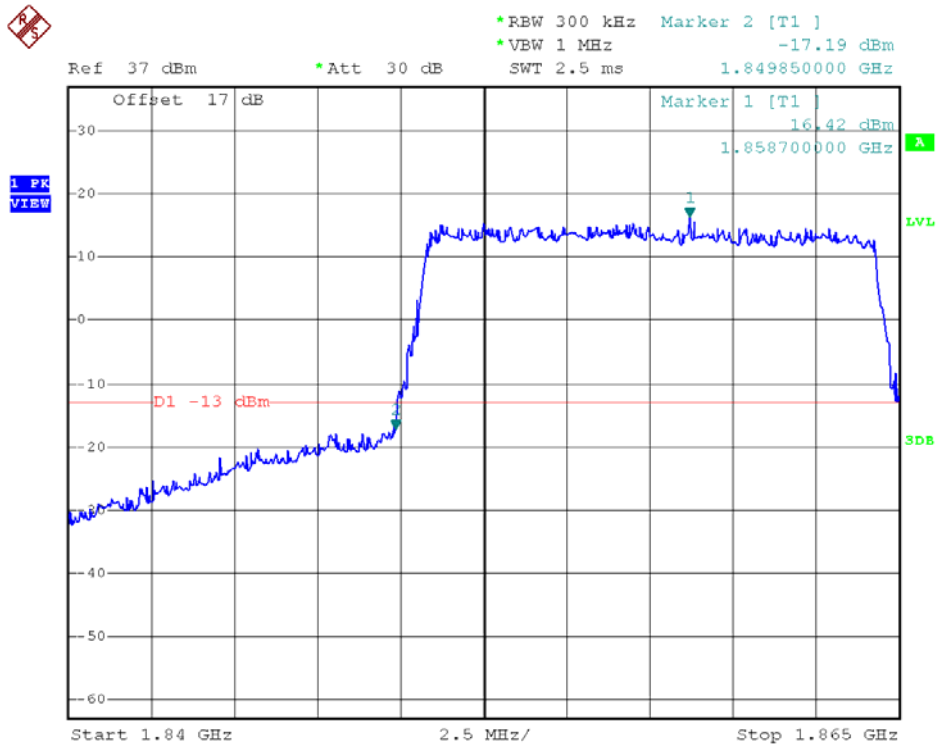
Higher Band Edge Plot for 16QAM-RB Size 50, RB Offset 0



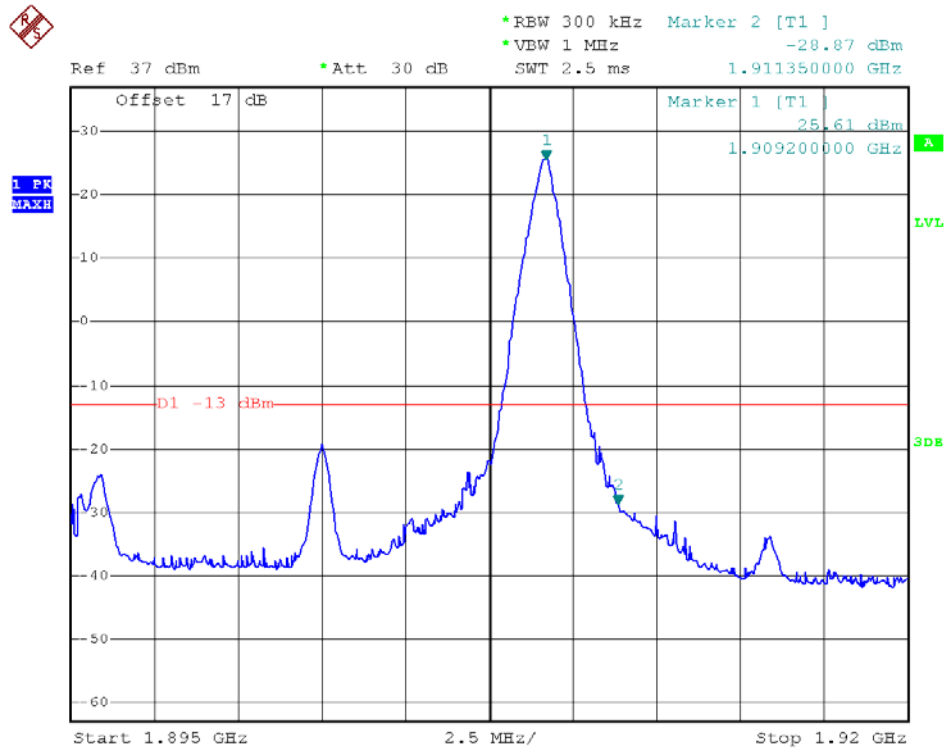
Band	LTE Band 2	Modulation	QPSK
Bandwidth	15MHz		



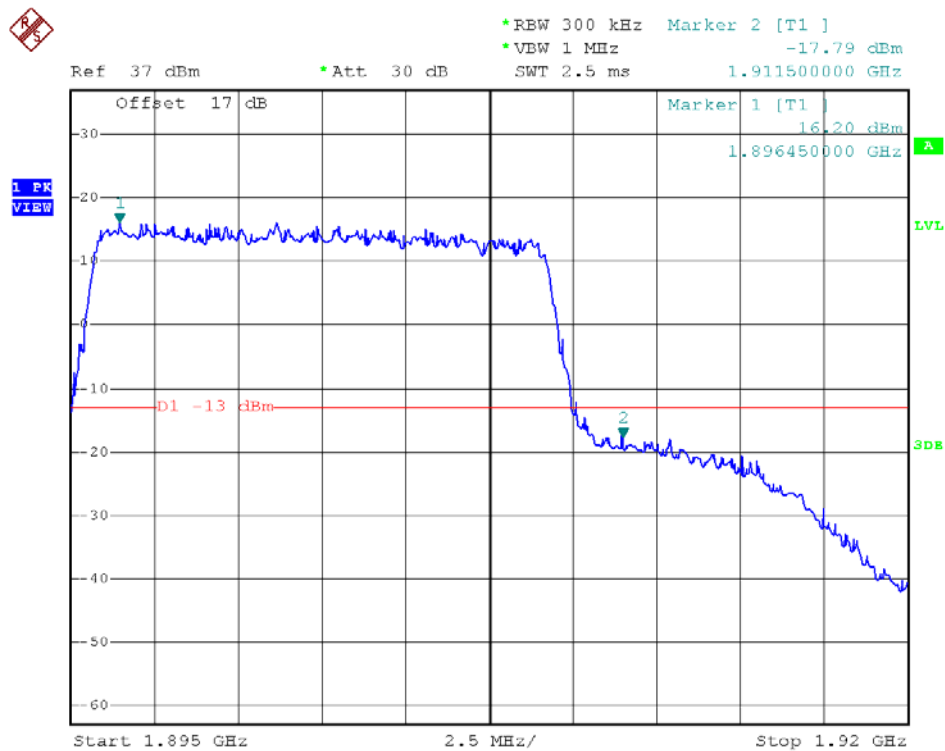
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0

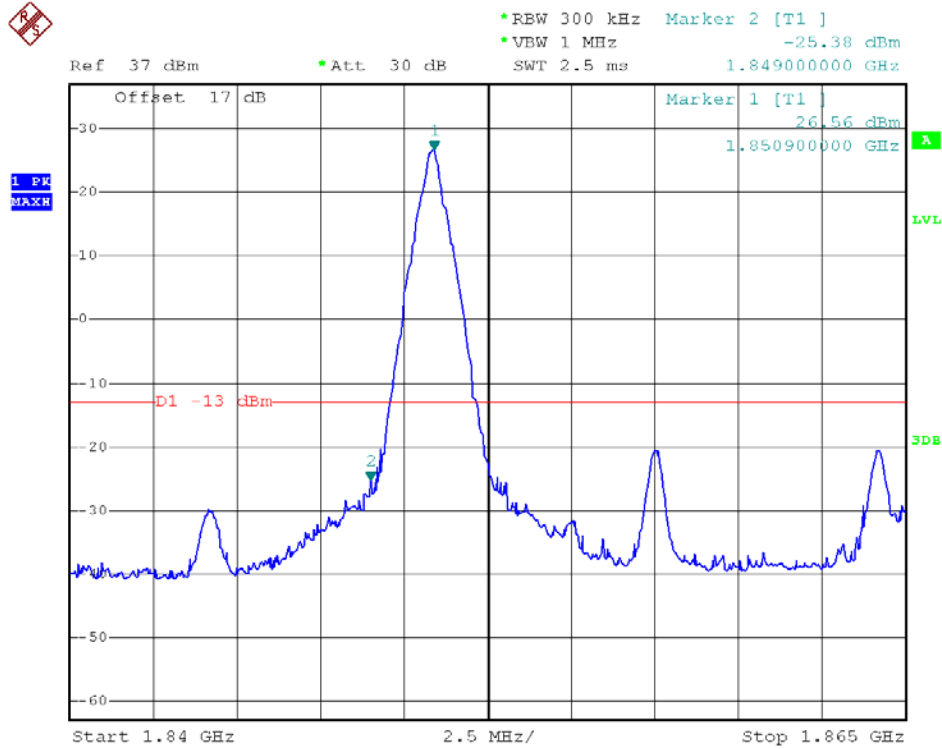


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74

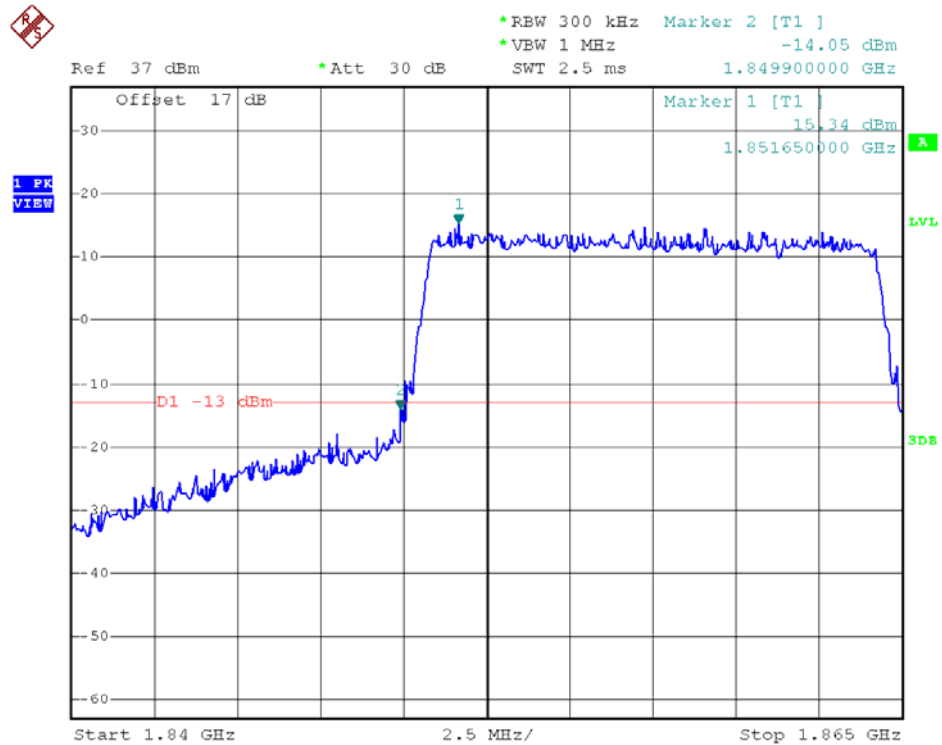


Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0

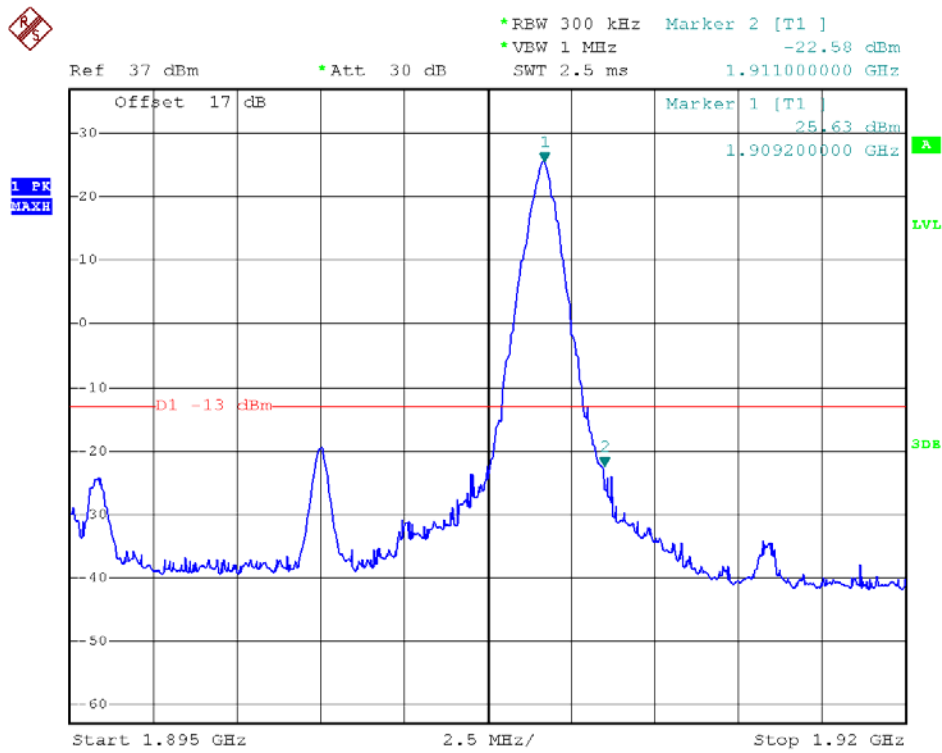
Band	LTE Band 2	Modulation	16QAM
Bandwidth	15MHz		



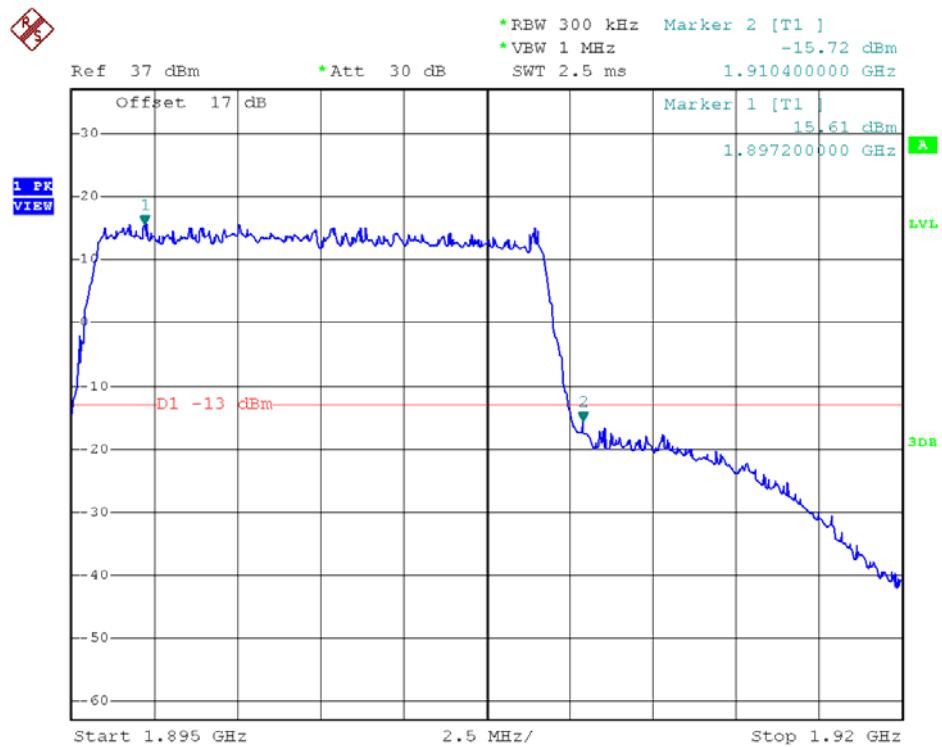
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



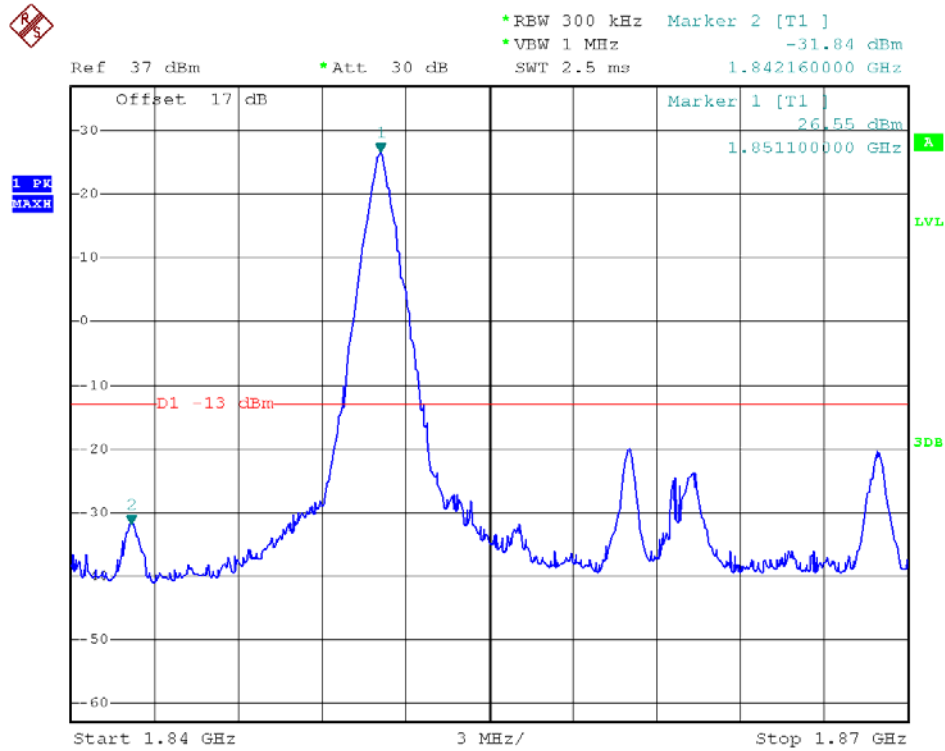
Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 74



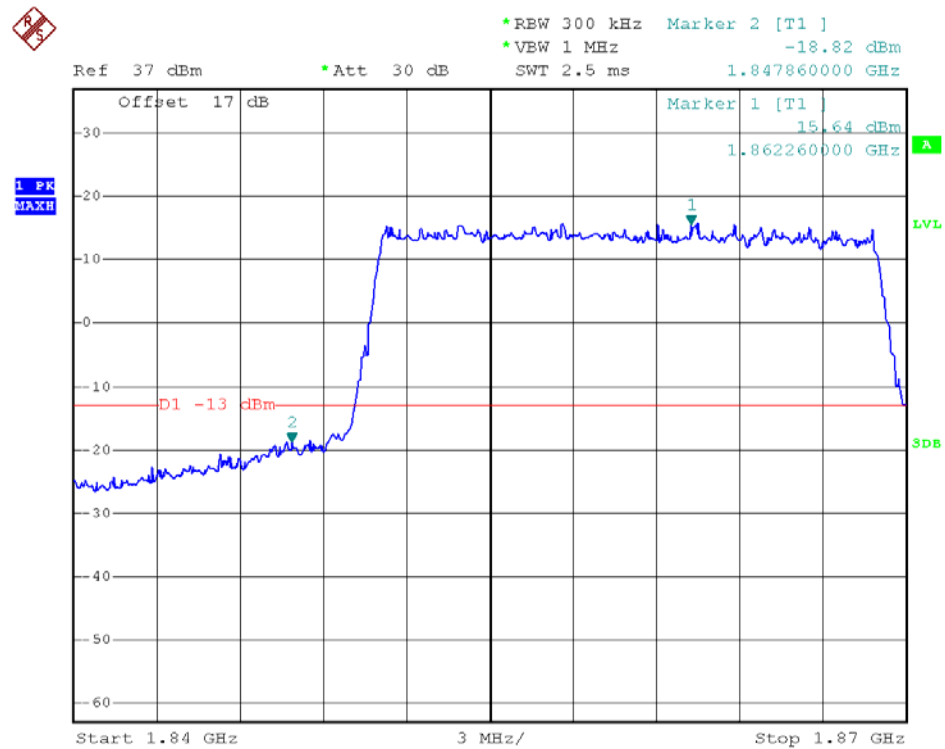
Higher Band Edge Plot for 16QAM-RB Size 75, RB Offset 0



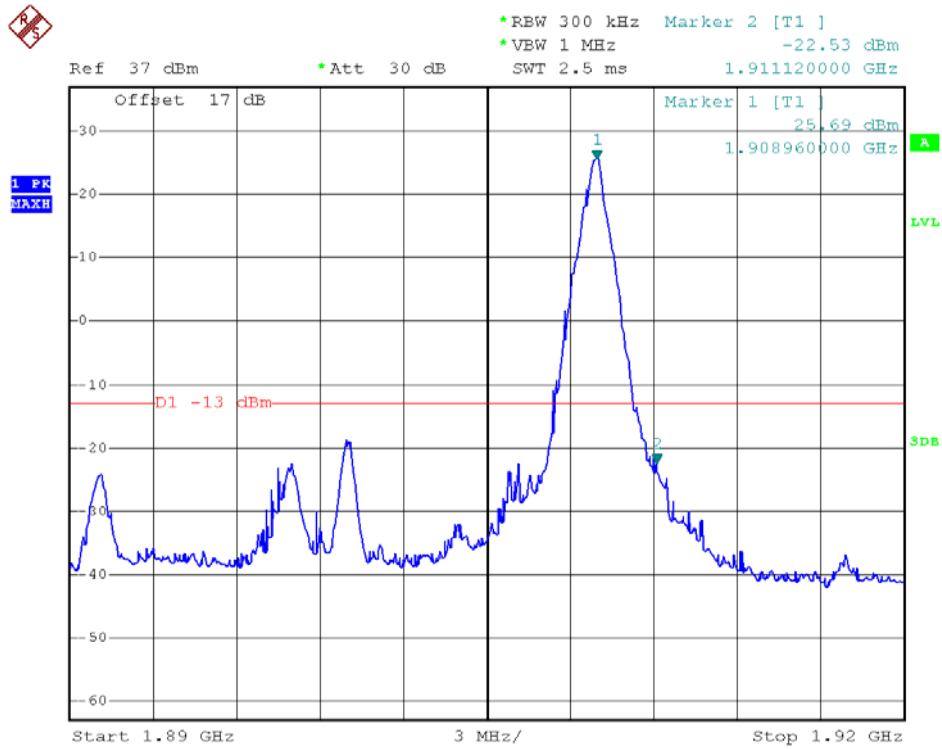
Band	LTE Band 2	Modulation	QPSK
Bandwidth	20MHz		



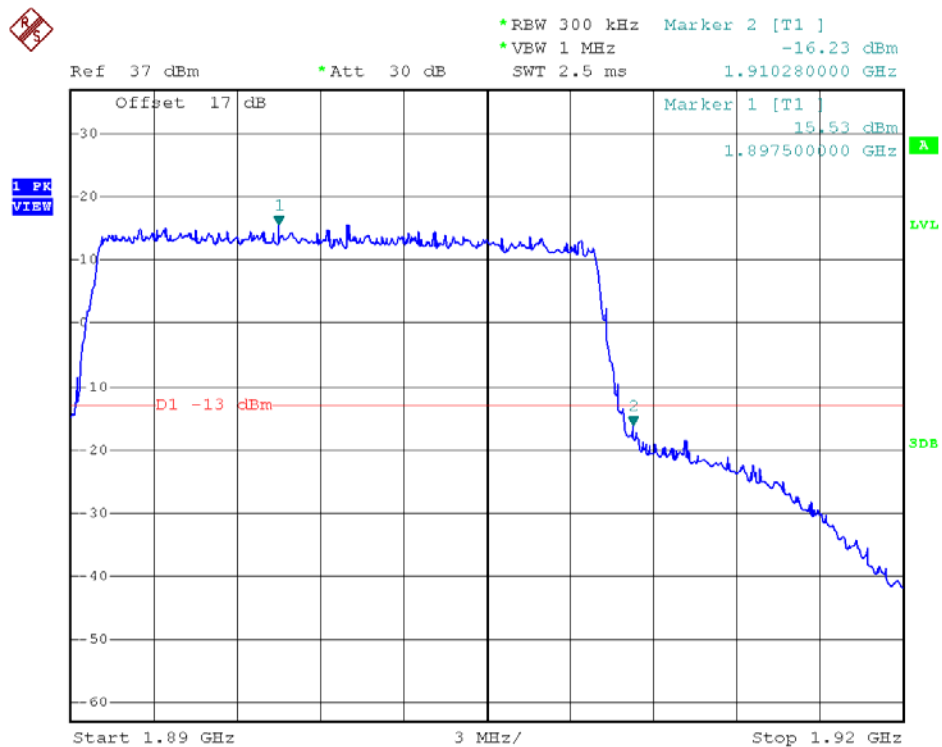
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0



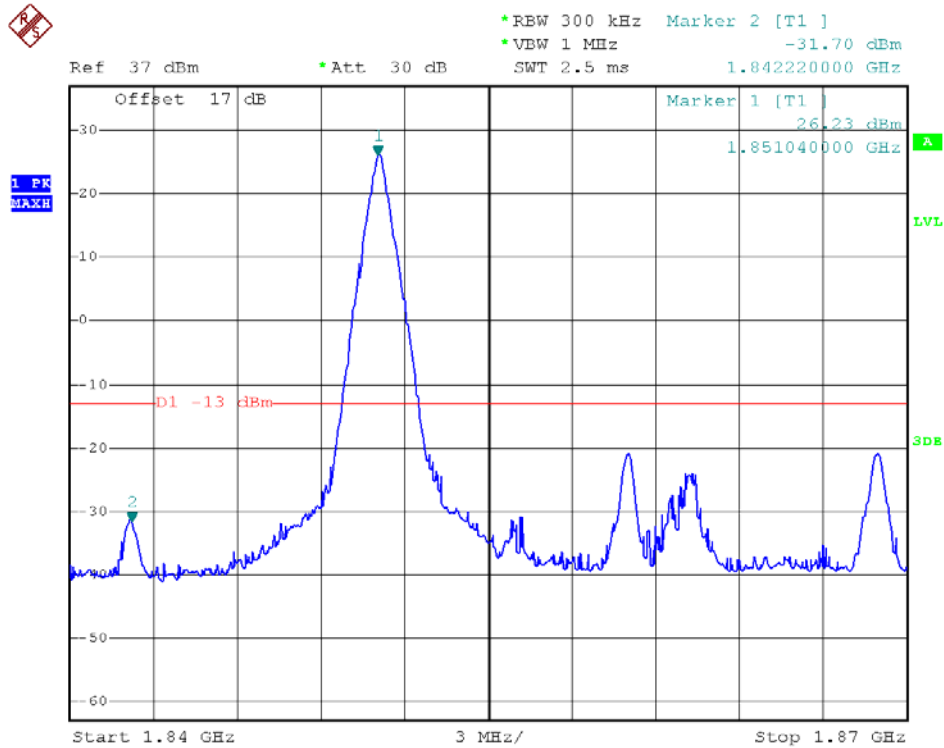
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99



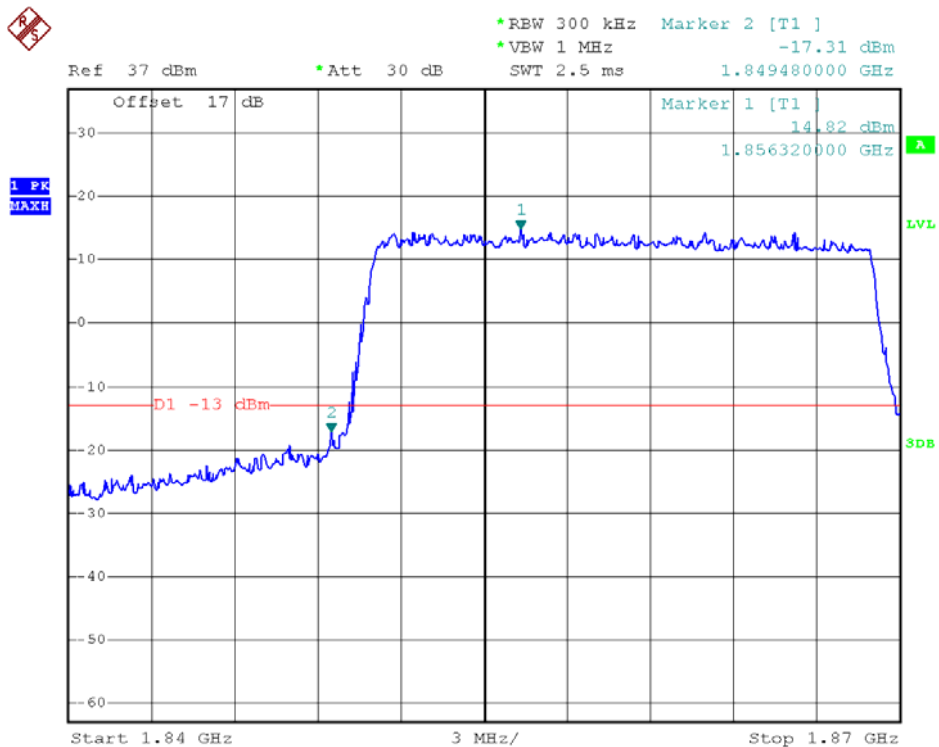
Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0



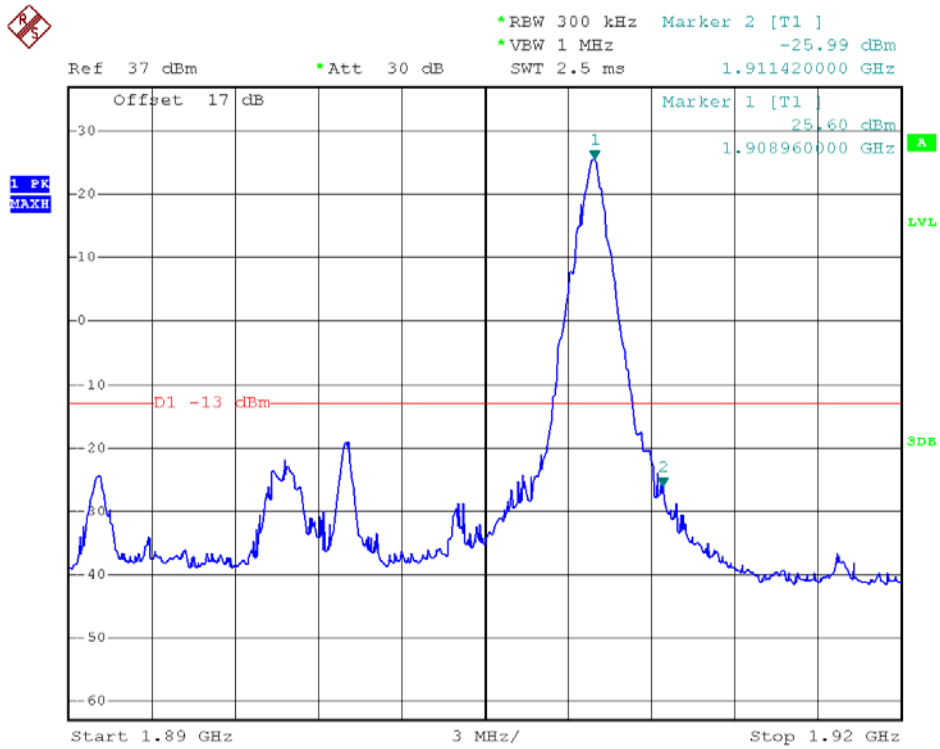
Band	LTE Band 2	Modulation	16QAM
Bandwidth	20MHz		



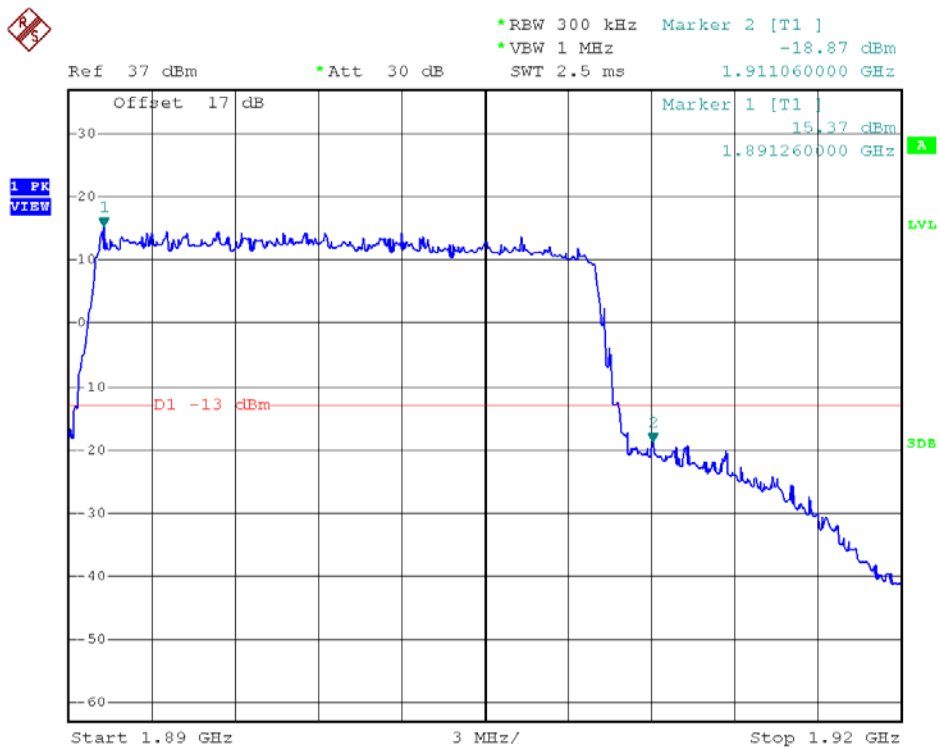
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

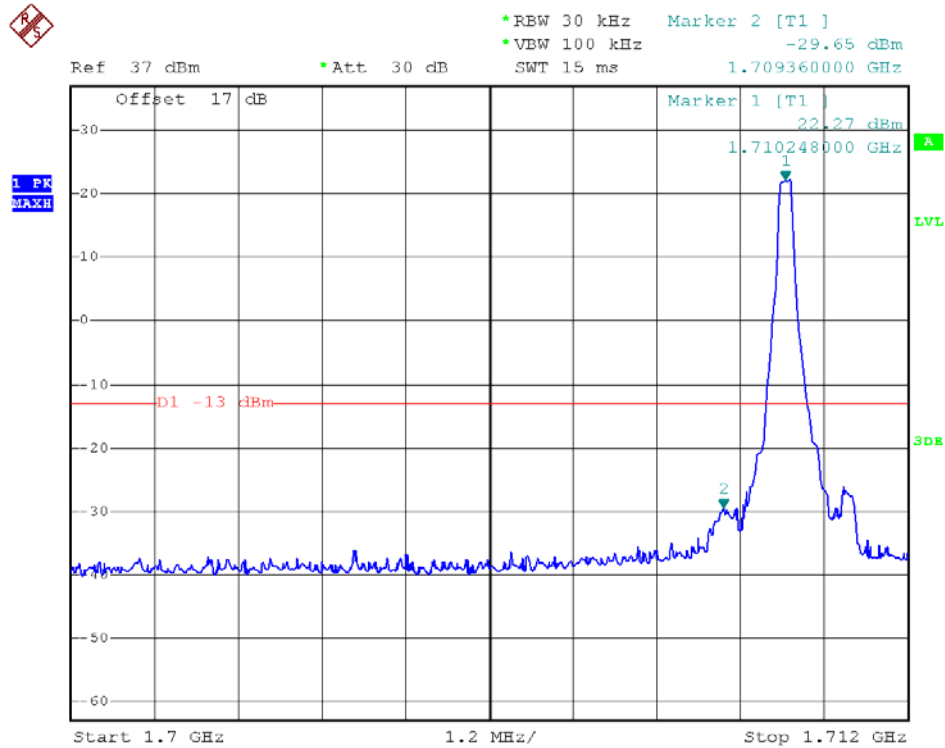


Higher Band Edge Plot for 16QAM-RB Size 1, RB Offset 99

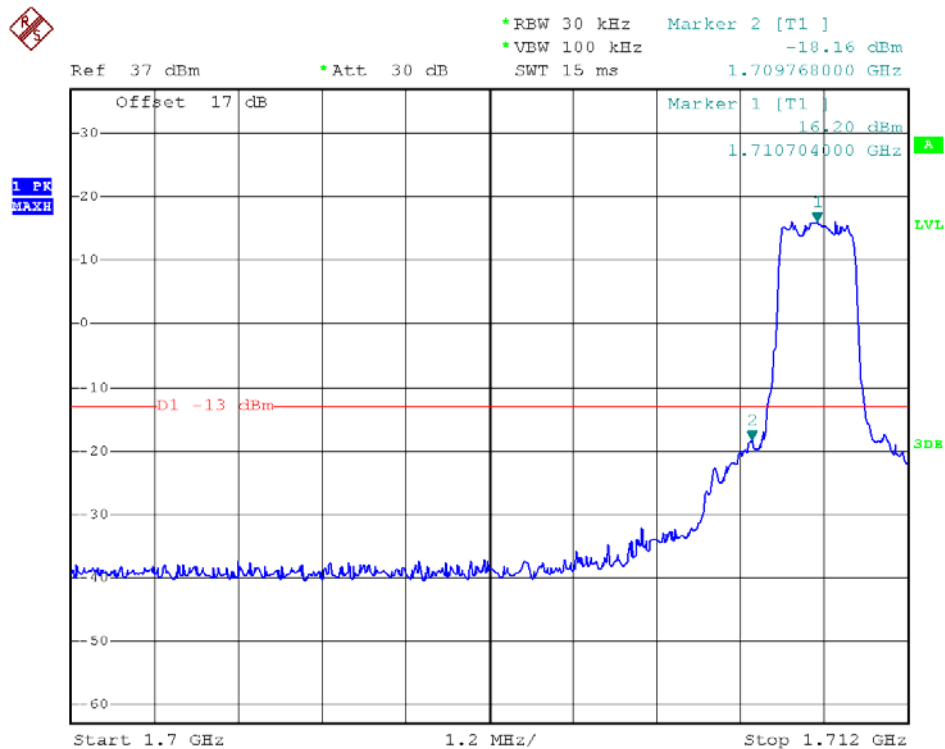


Higher Band Edge Plot for 16QAM-RB Size 100, RB Offset 0

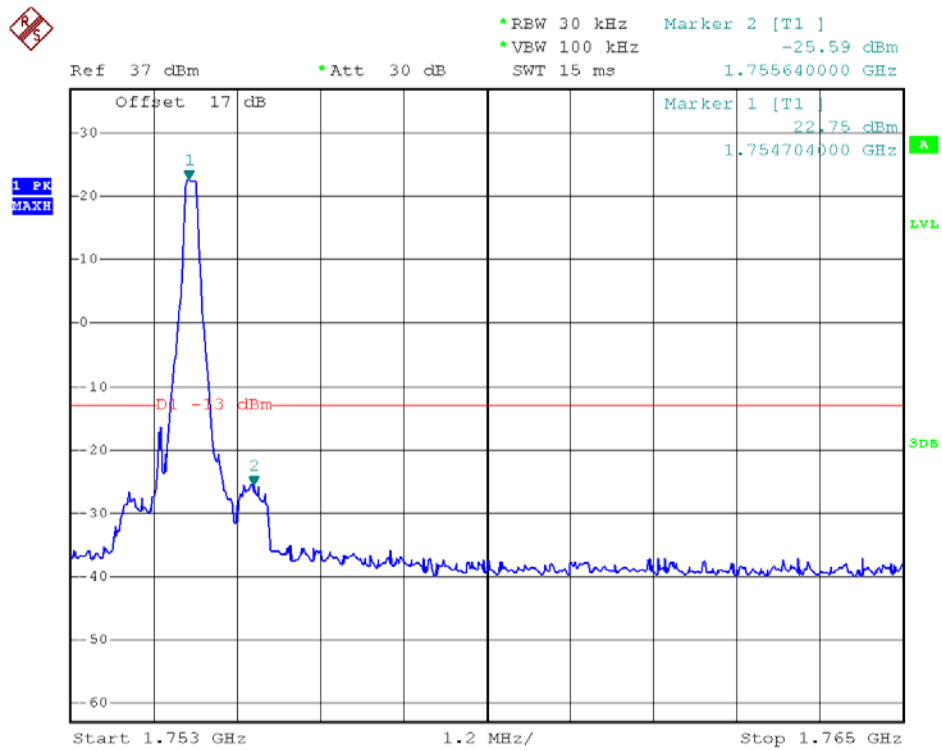
Band	LTE Band 4	Modulation	QPSK
Bandwidth	1.4MHz		



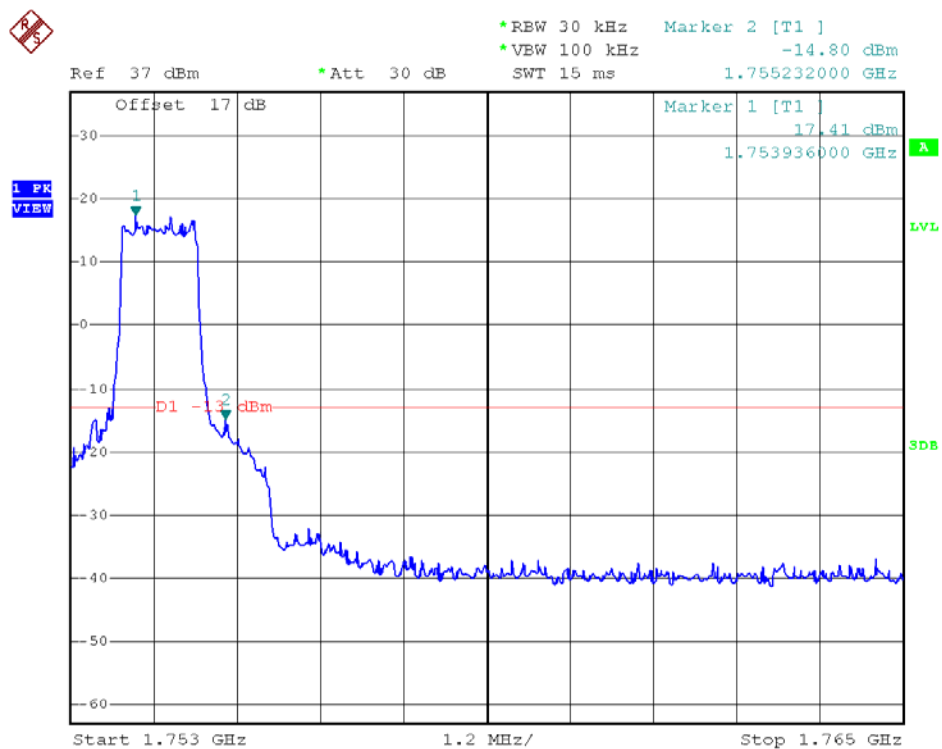
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 6, RB Offset 0



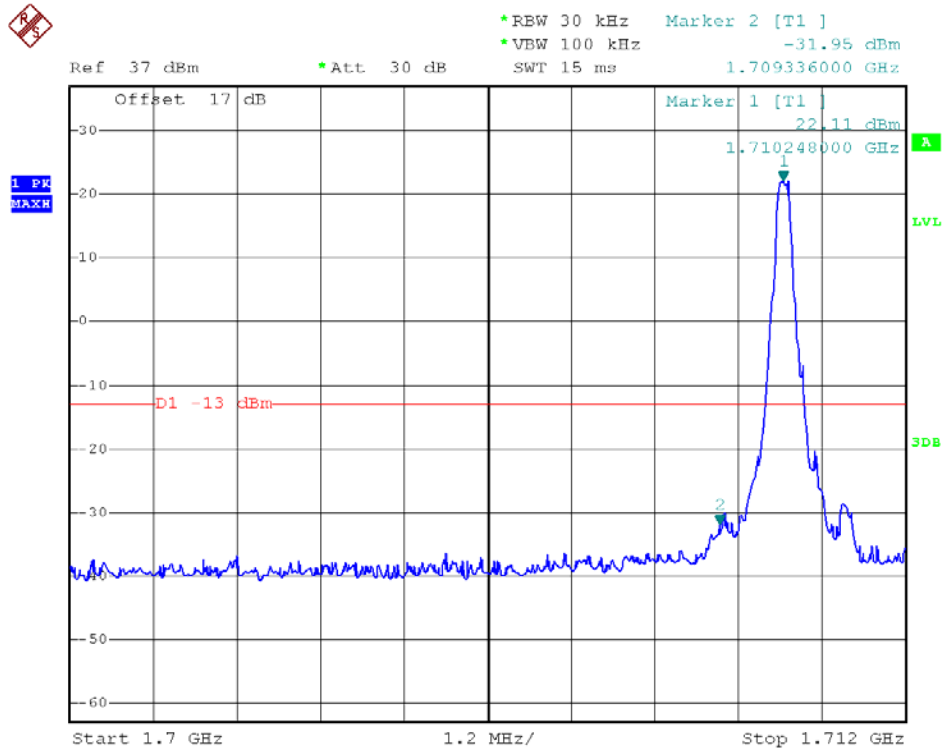
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 5



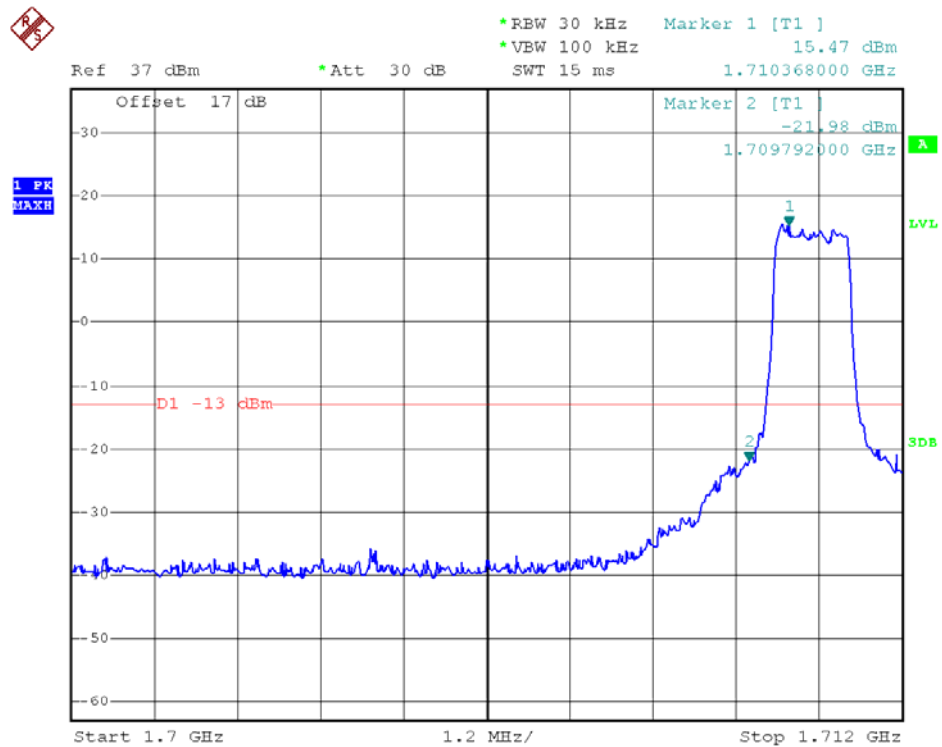
Higher Band Edge Plot for QPSK-RB Size 6, RB Offset 0



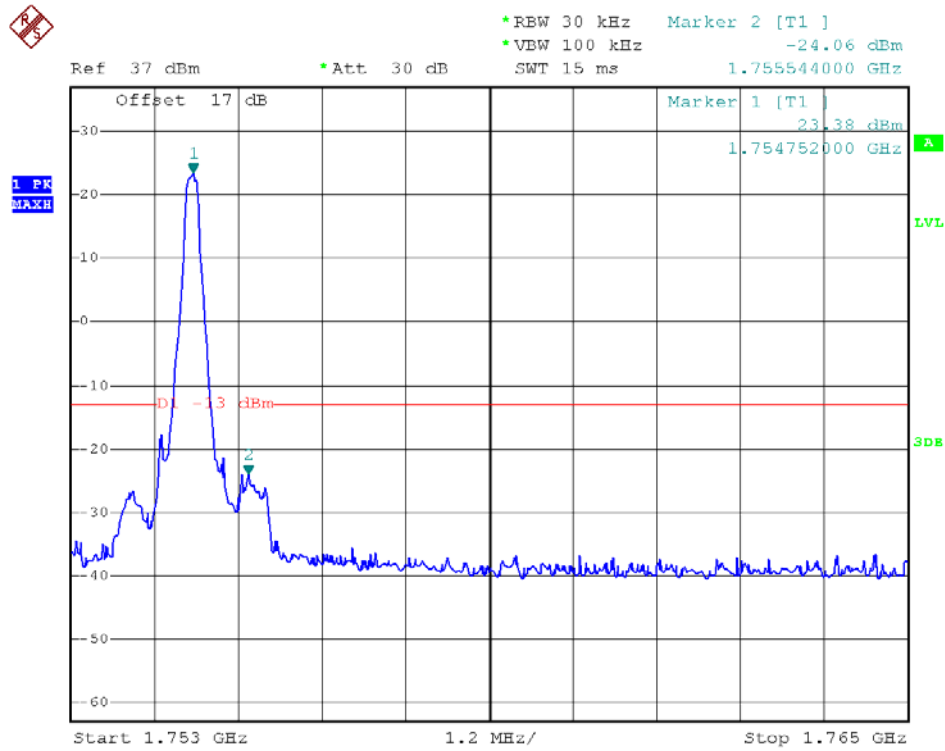
Band	LTE Band 4	Modulation	16QAM
Bandwidth	1.4MHz		



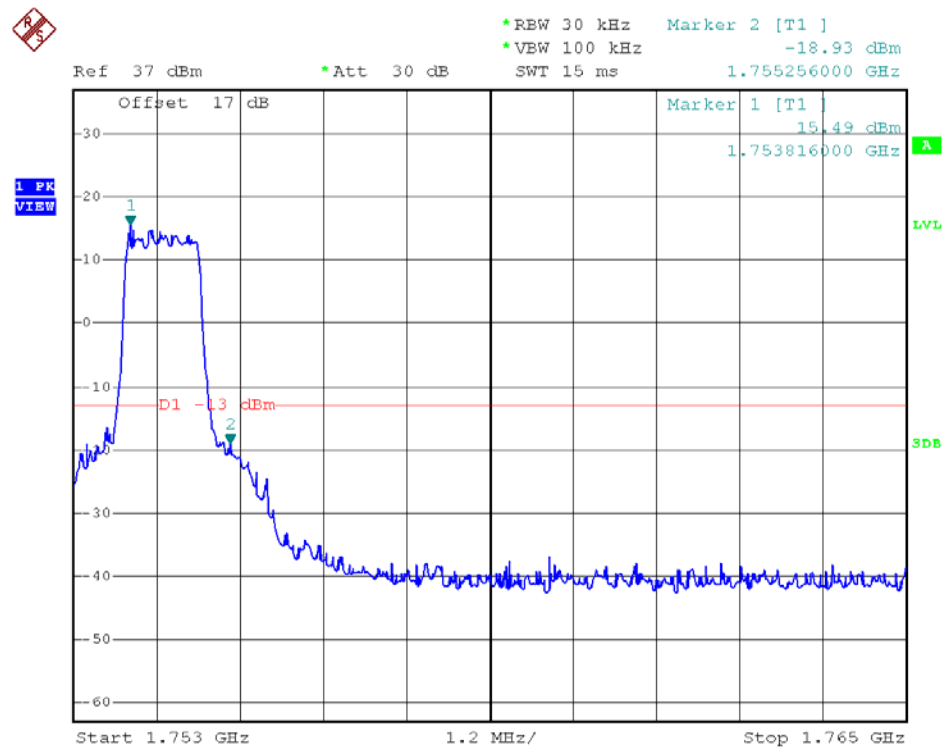
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



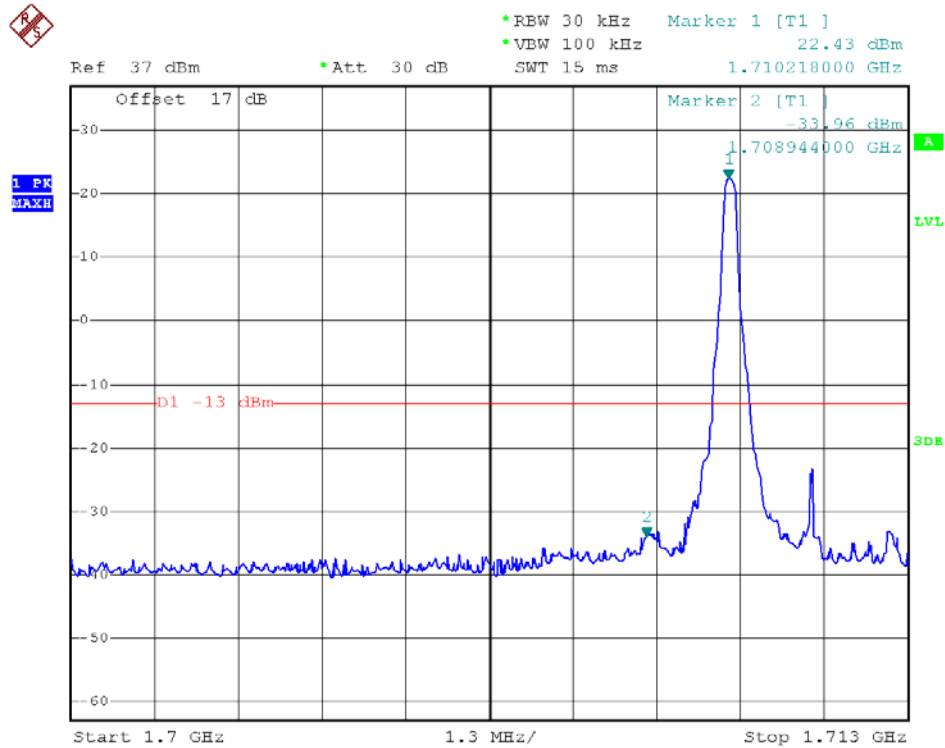
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 5



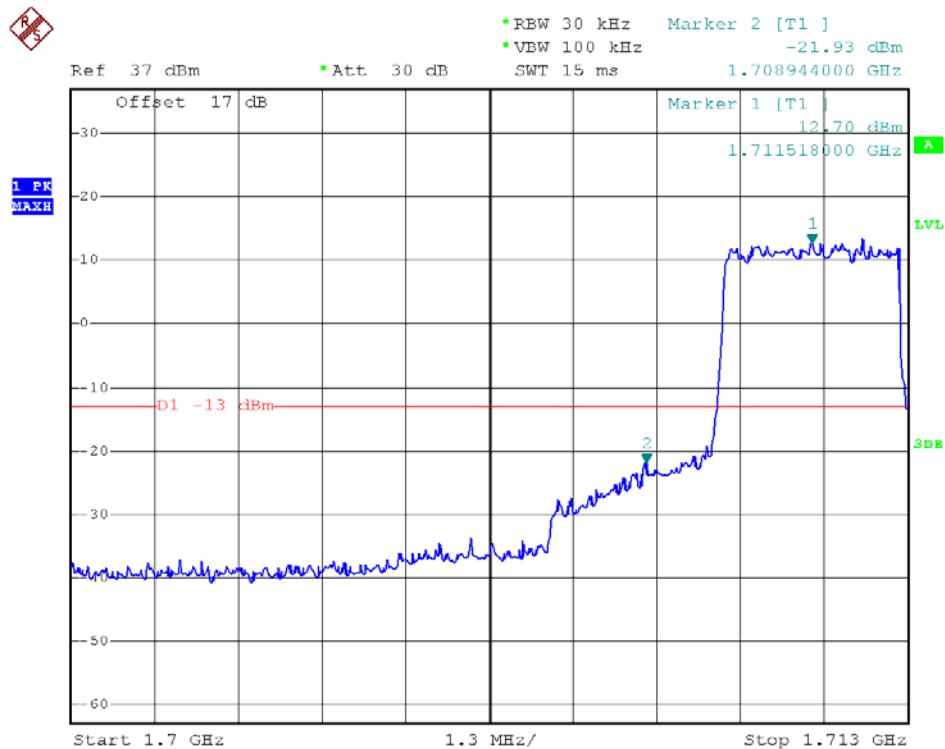
Higher Band Edge Plot for 16QAM -RB Size 6, RB Offset 0



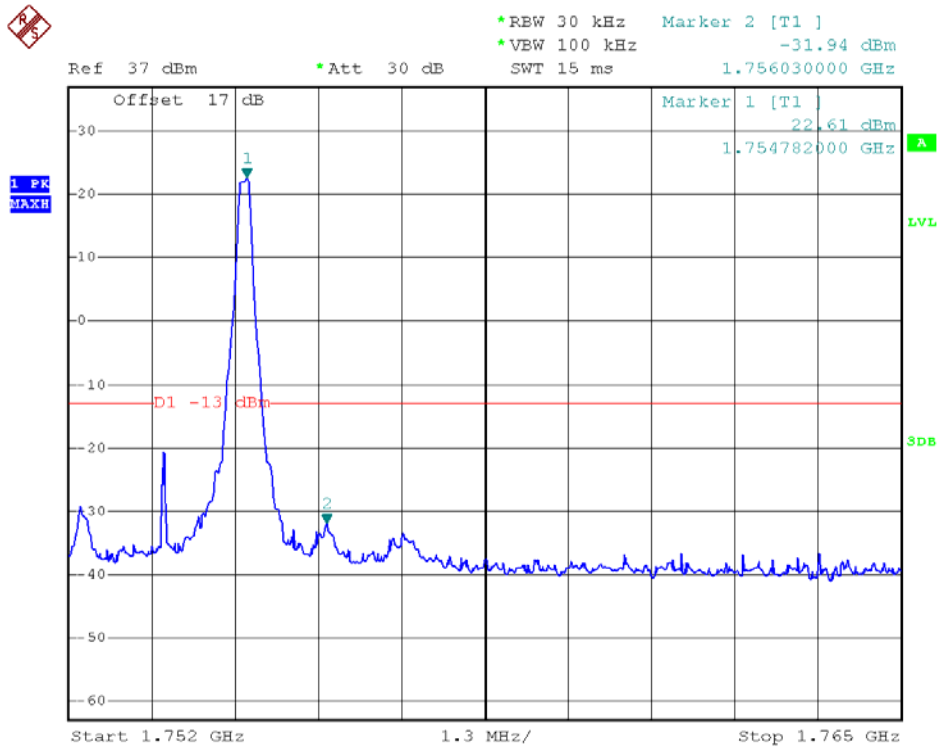
Band	LTE Band 4	Modulation	QPSK
Bandwidth	3MHz		



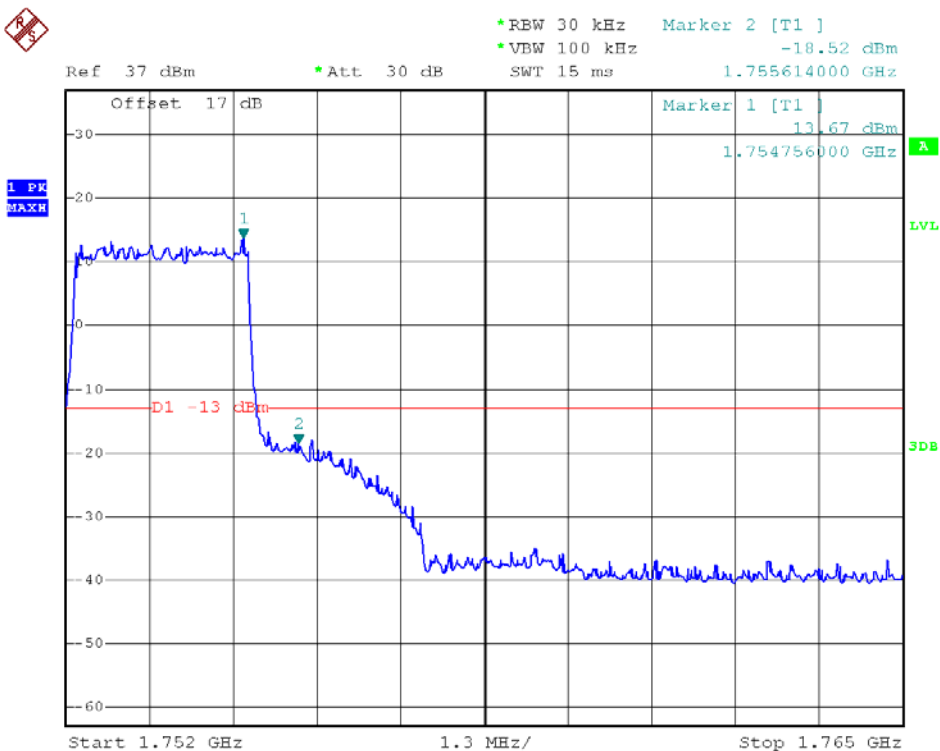
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 15, RB Offset 0



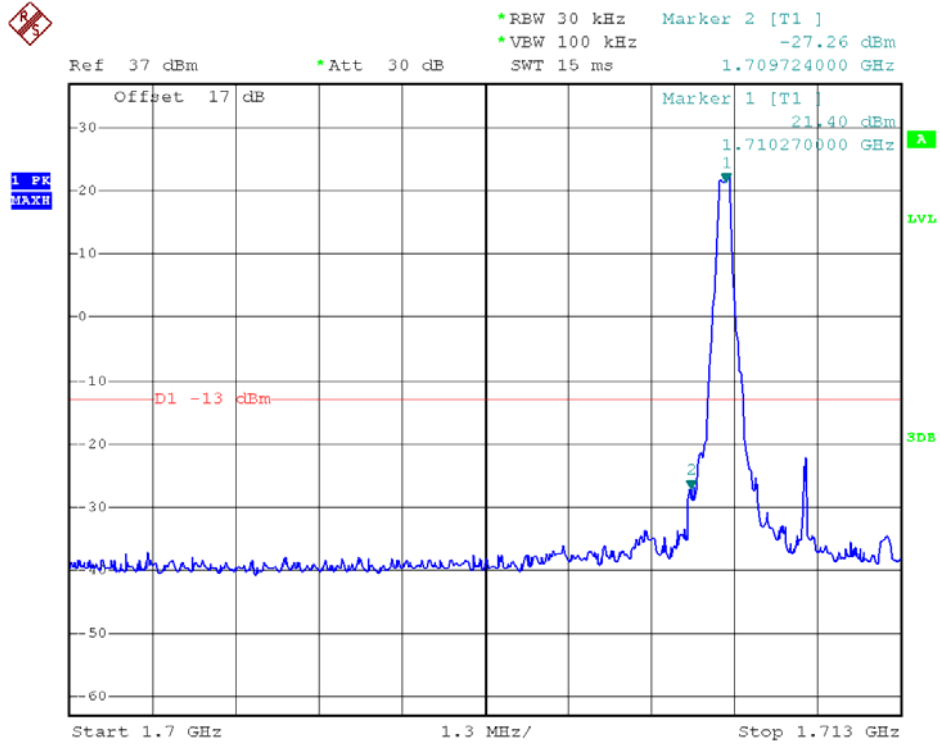
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 14



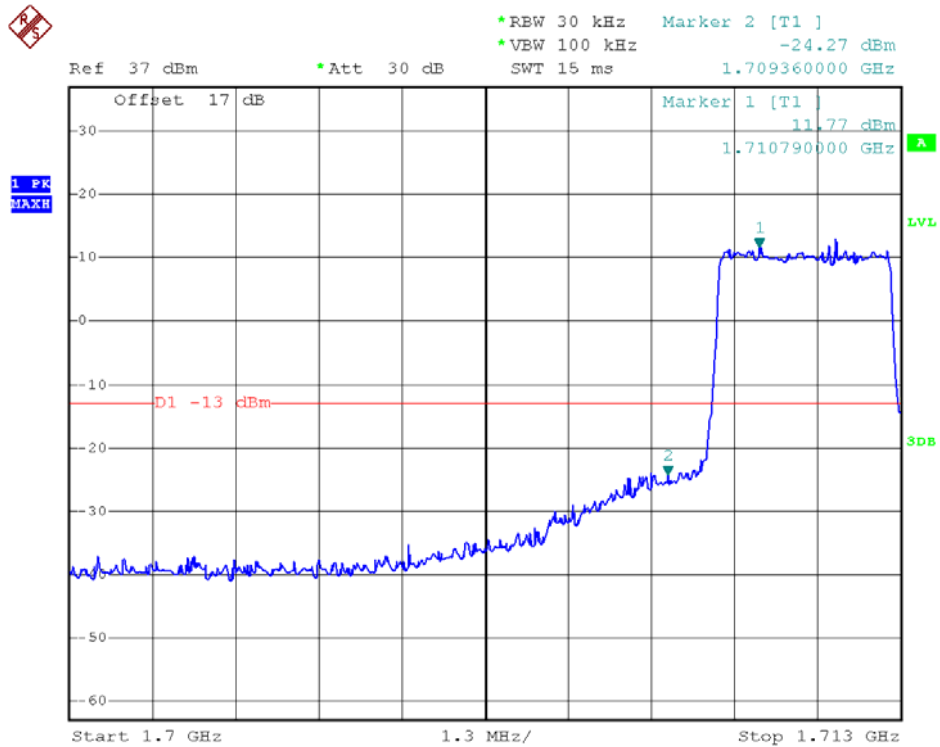
Higher Band Edge Plot for QPSK-RB Size 15, RB Offset 0



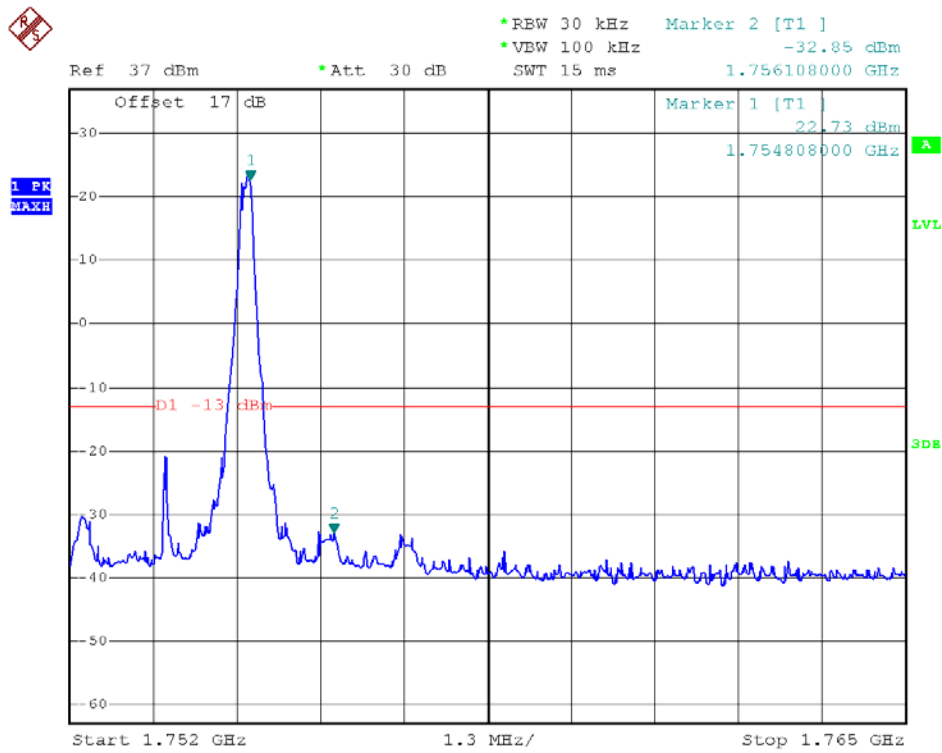
Band	LTE Band 4	Modulation	16QAM
Bandwidth	3MHz		



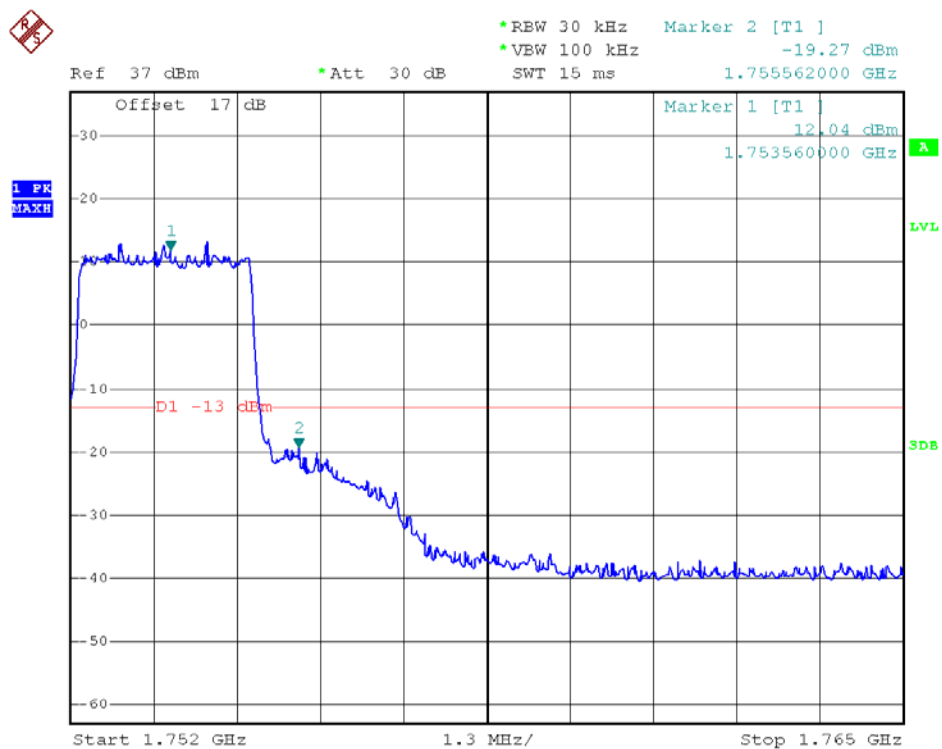
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



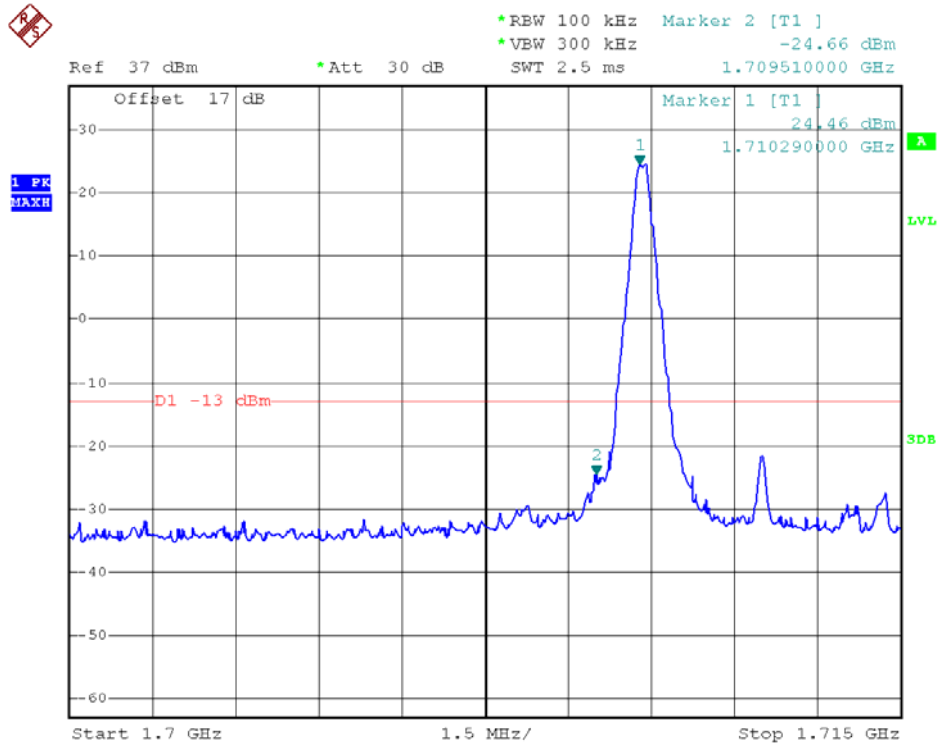
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 14



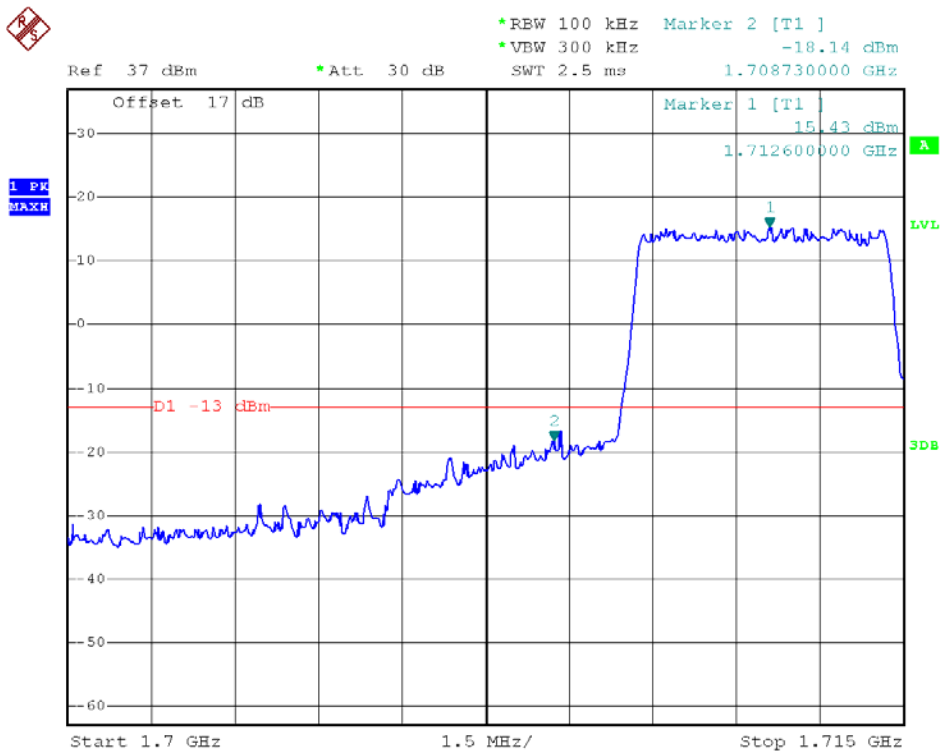
Higher Band Edge Plot for 16QAM -RB Size 15, RB Offset 0



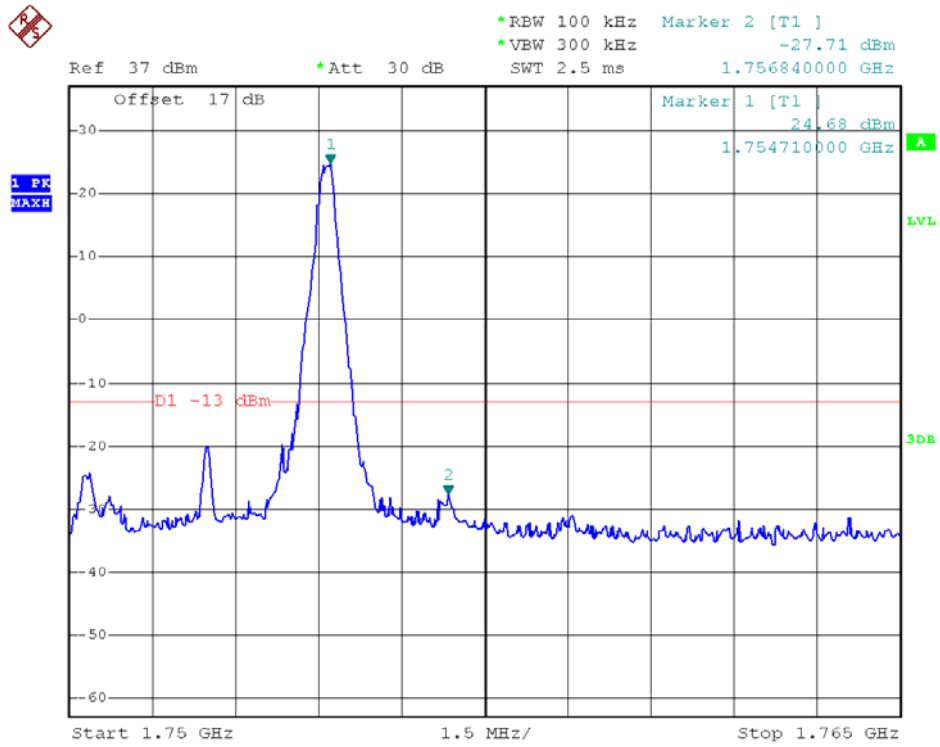
Band	LTE Band 4	Modulation	QPSK
Bandwidth	5MHz		



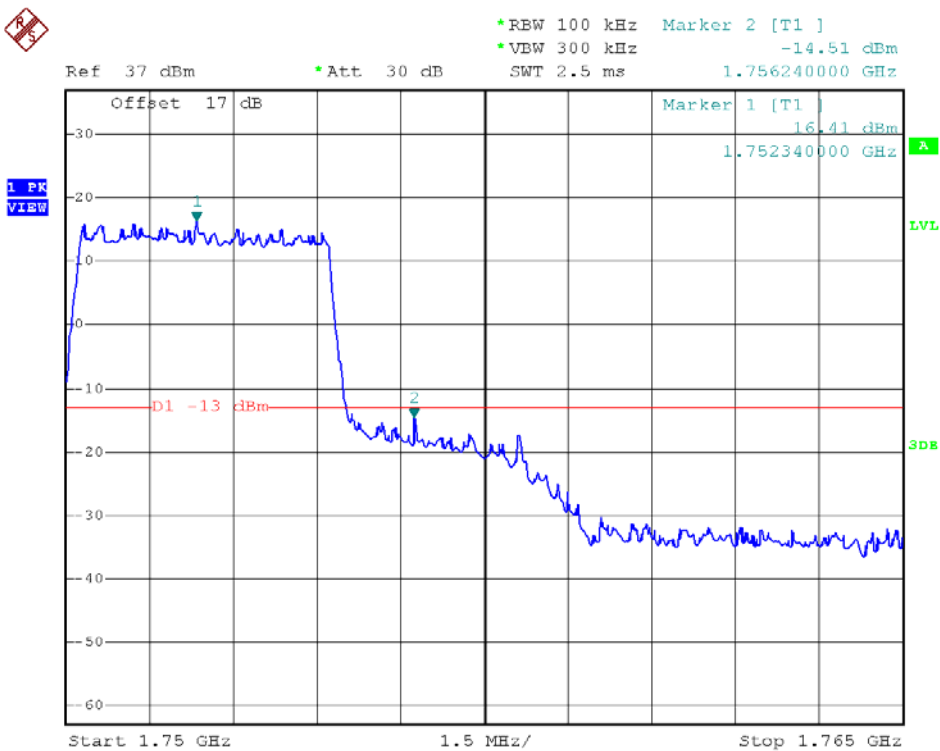
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



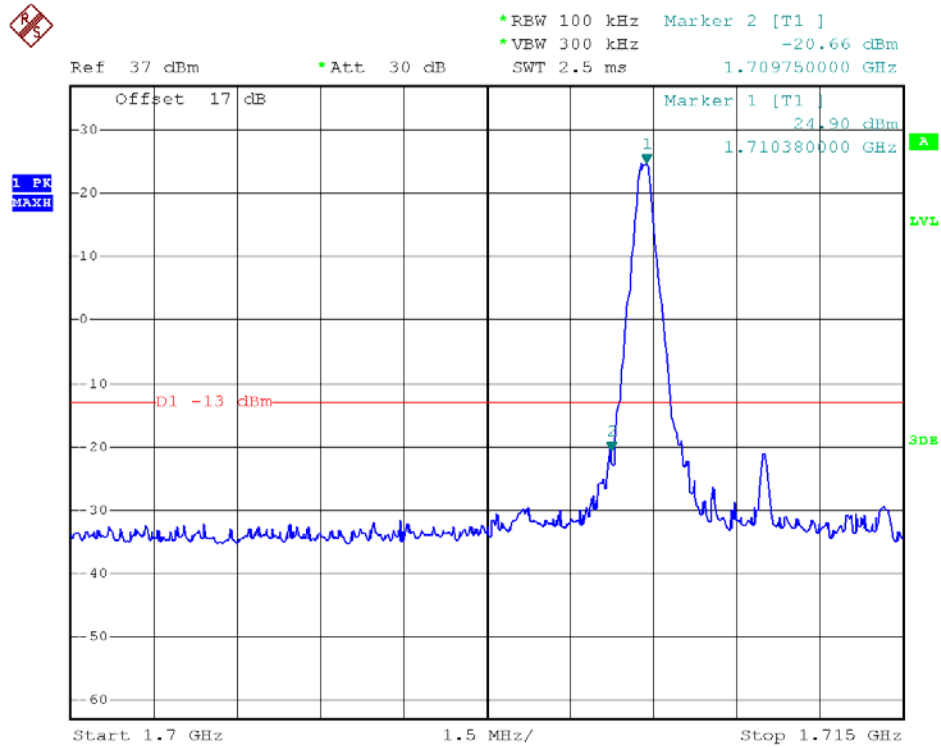
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



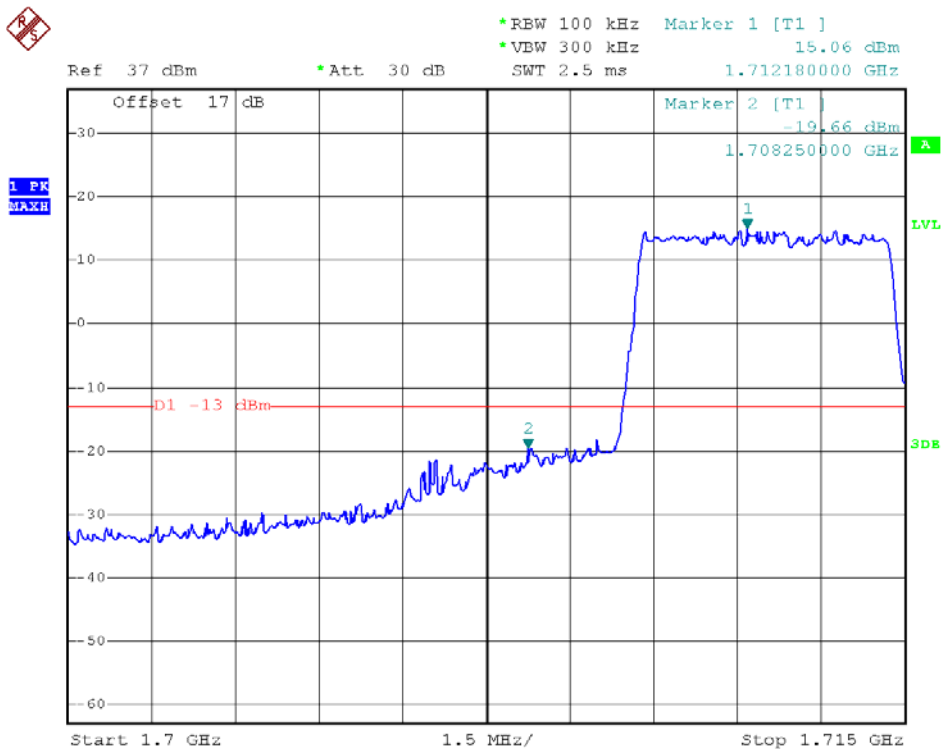
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



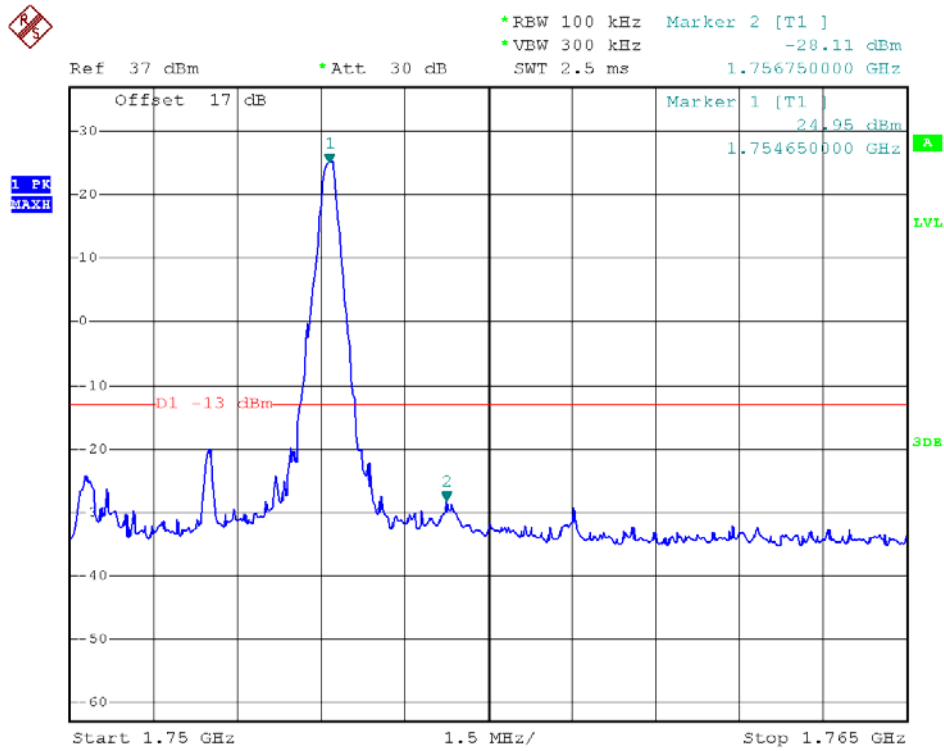
Band	LTE Band 4	Modulation	16QAM
Bandwidth	5MHz		



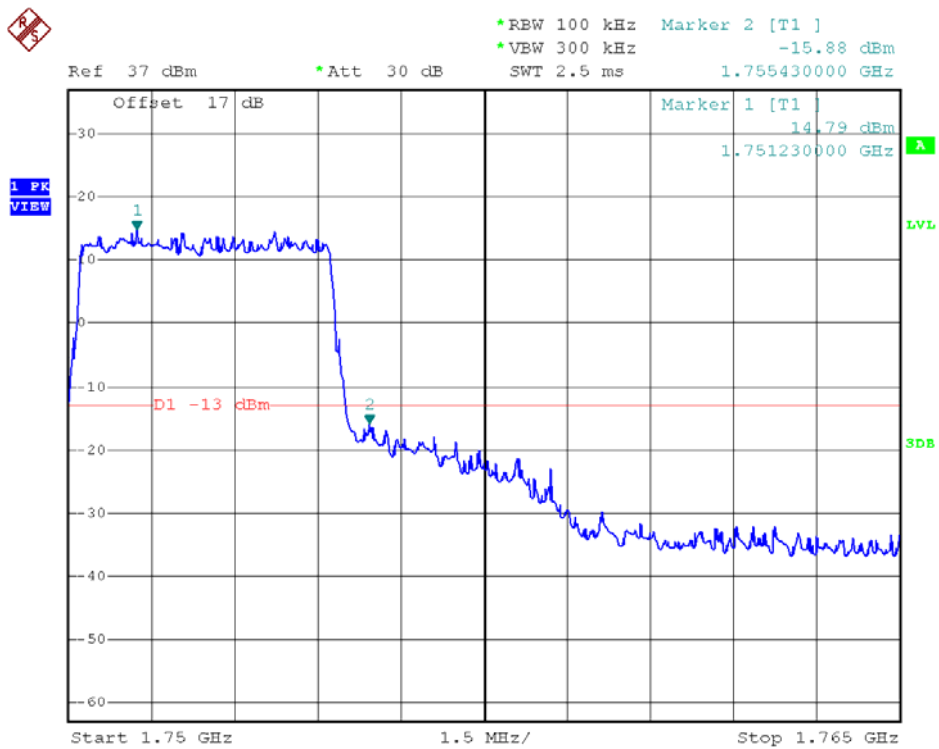
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



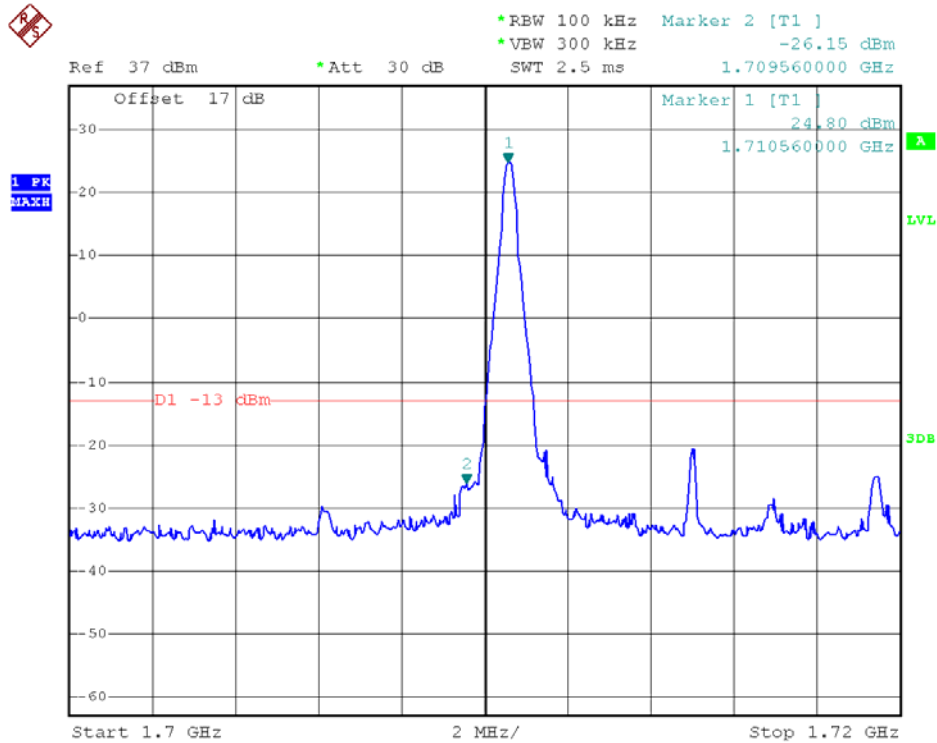
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



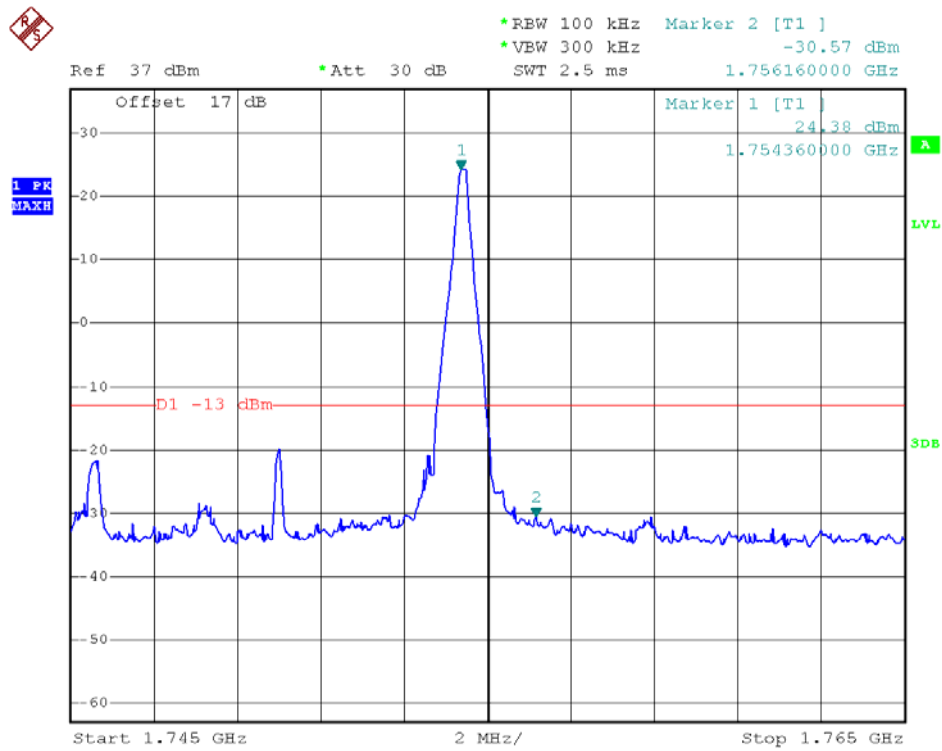
Band	LTE Band 4	Modulation	QPSK
Bandwidth	10MHz		



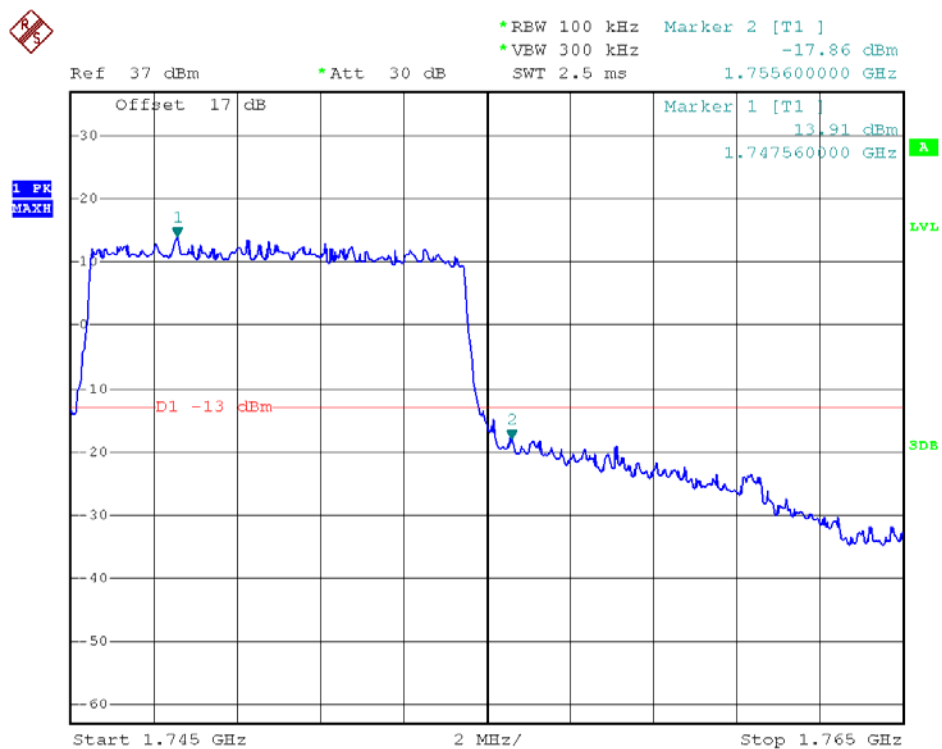
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0



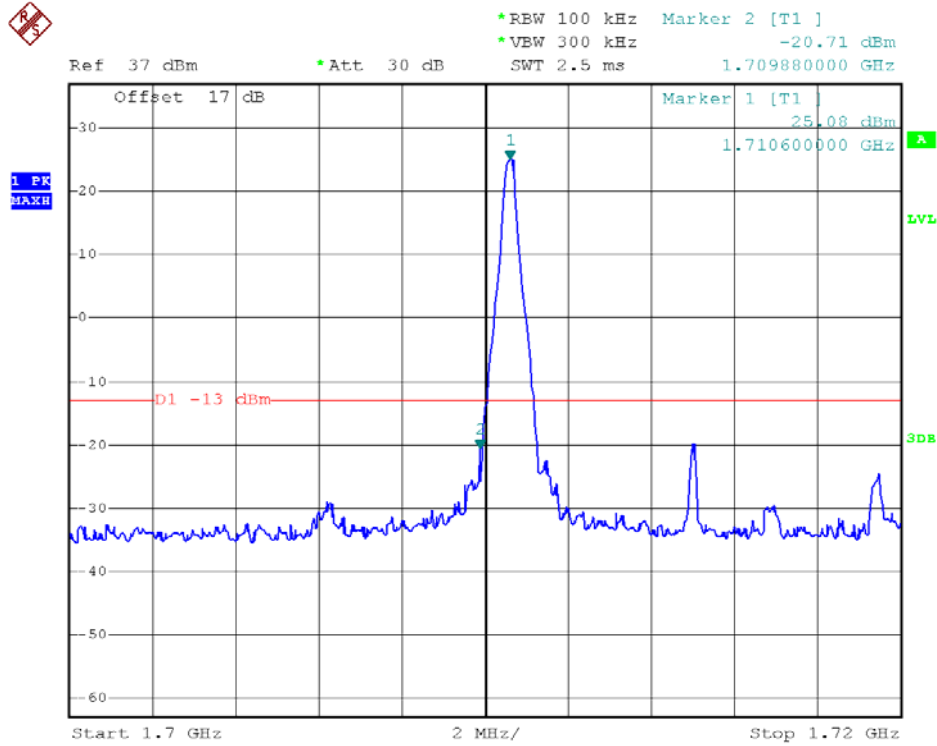
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49



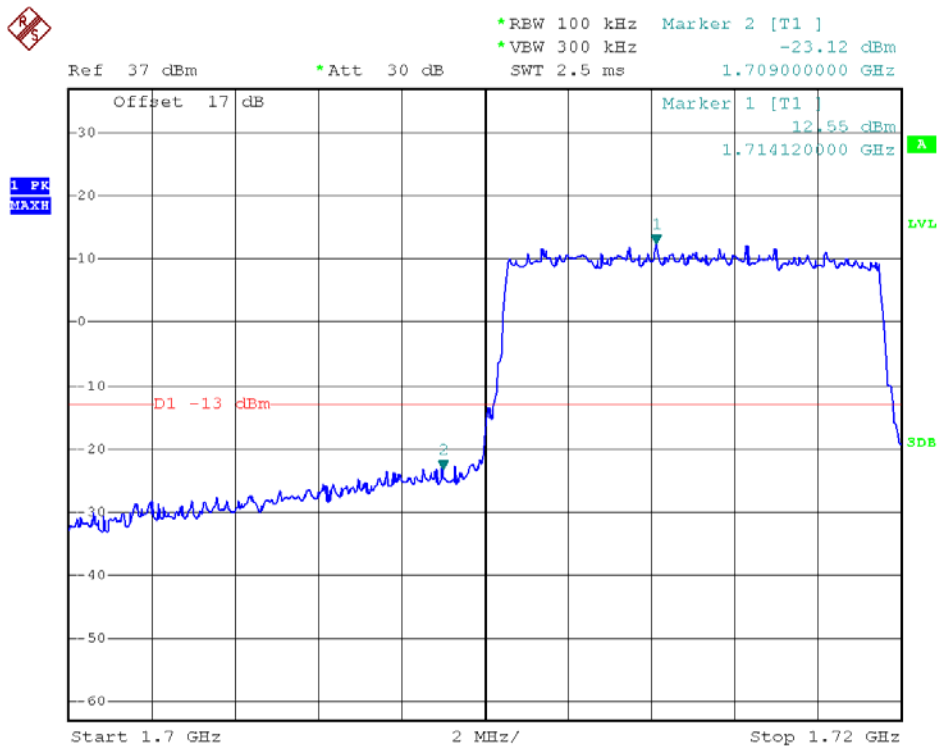
Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0



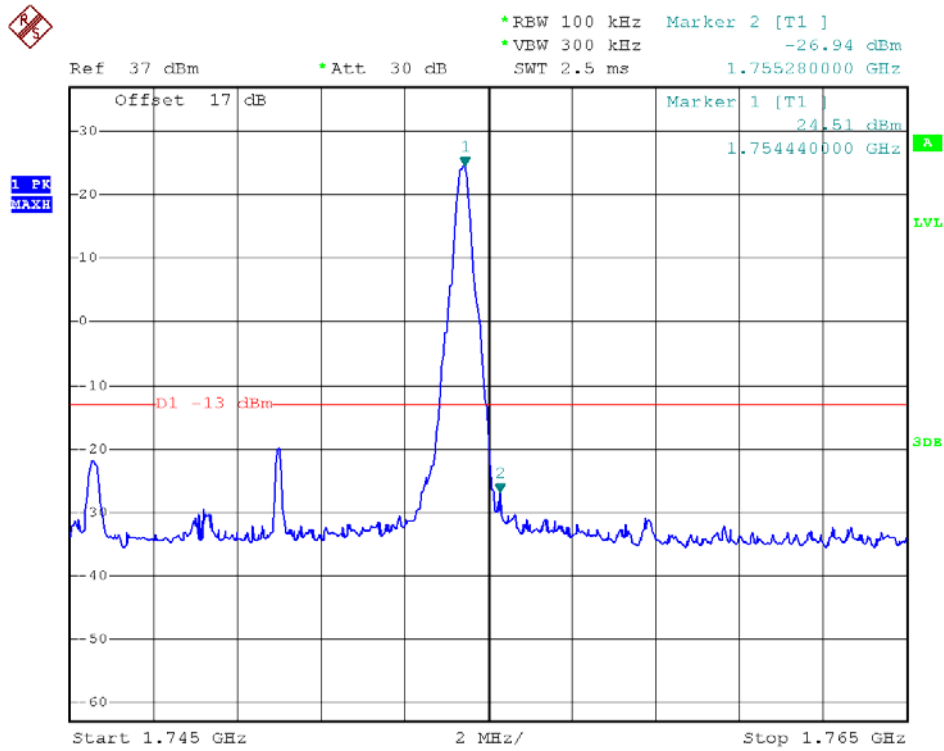
Band	LTE Band 4	Modulation	16QAM
Bandwidth	10MHz		



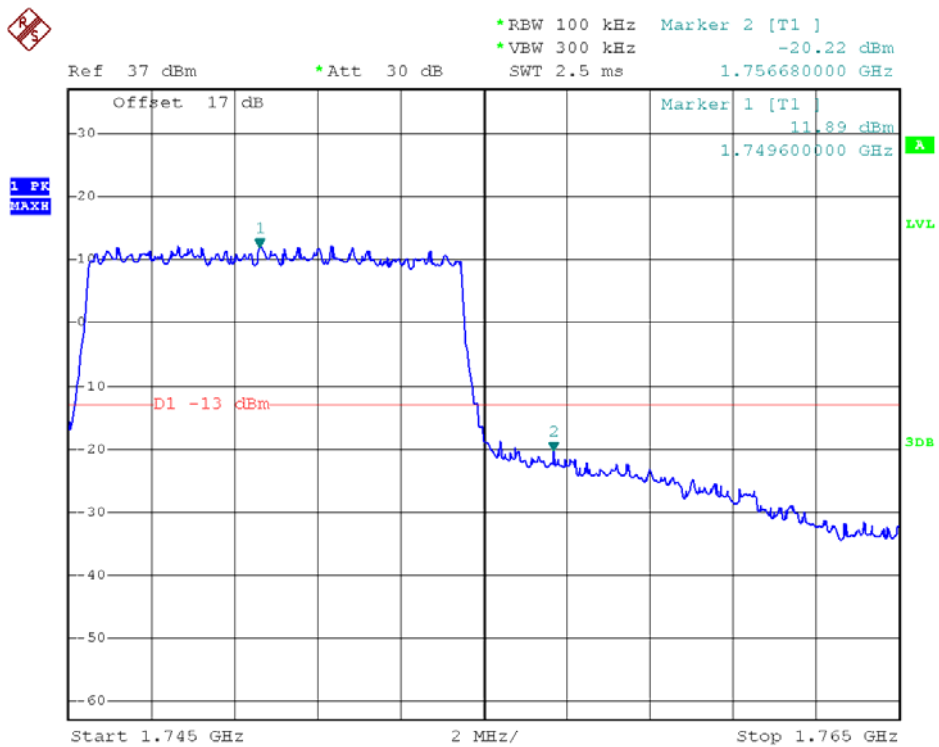
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



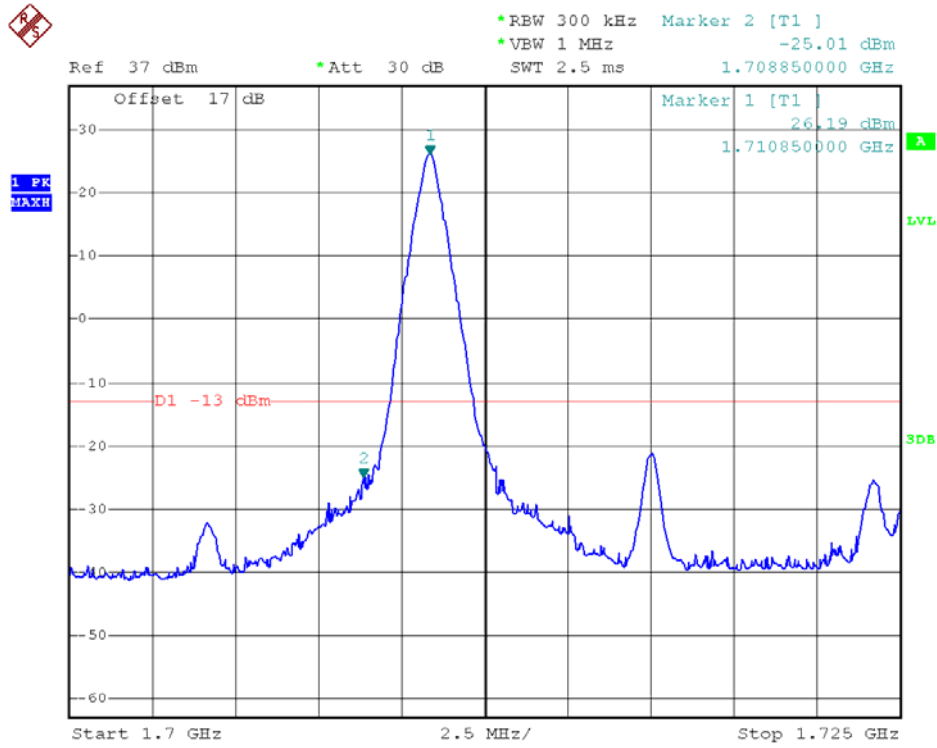
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



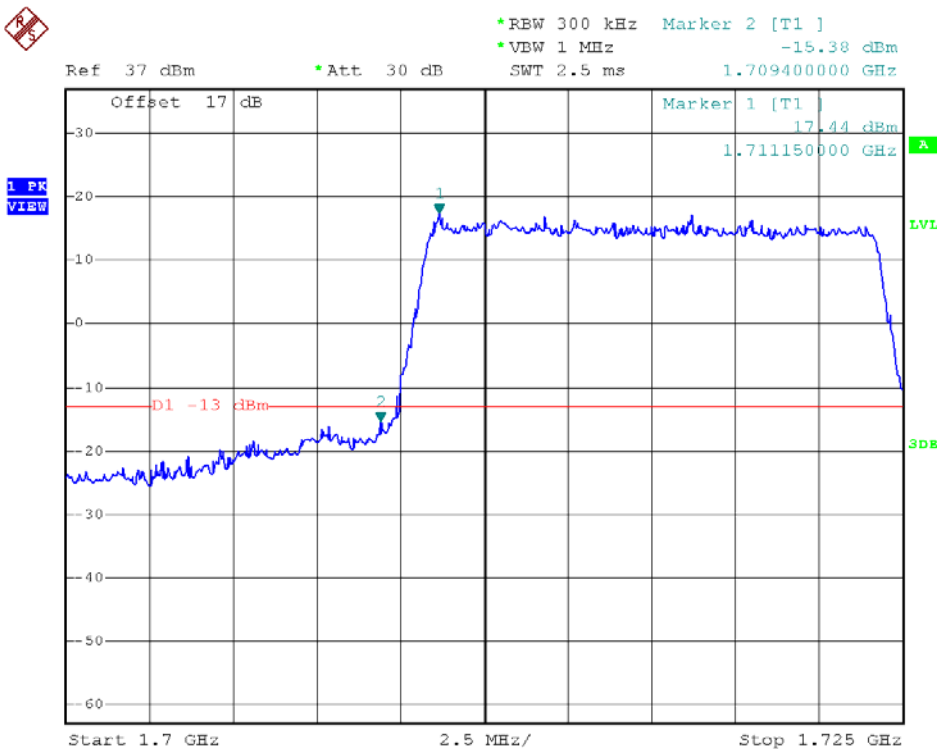
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



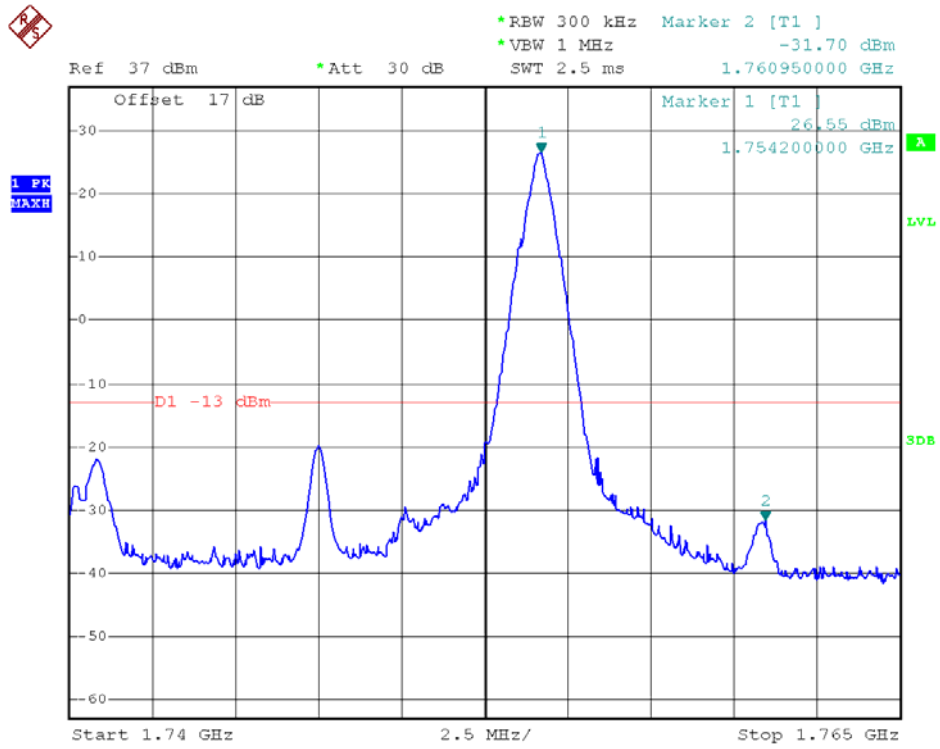
Band	LTE Band 4	Modulation	QPSK
Bandwidth	15MHz		



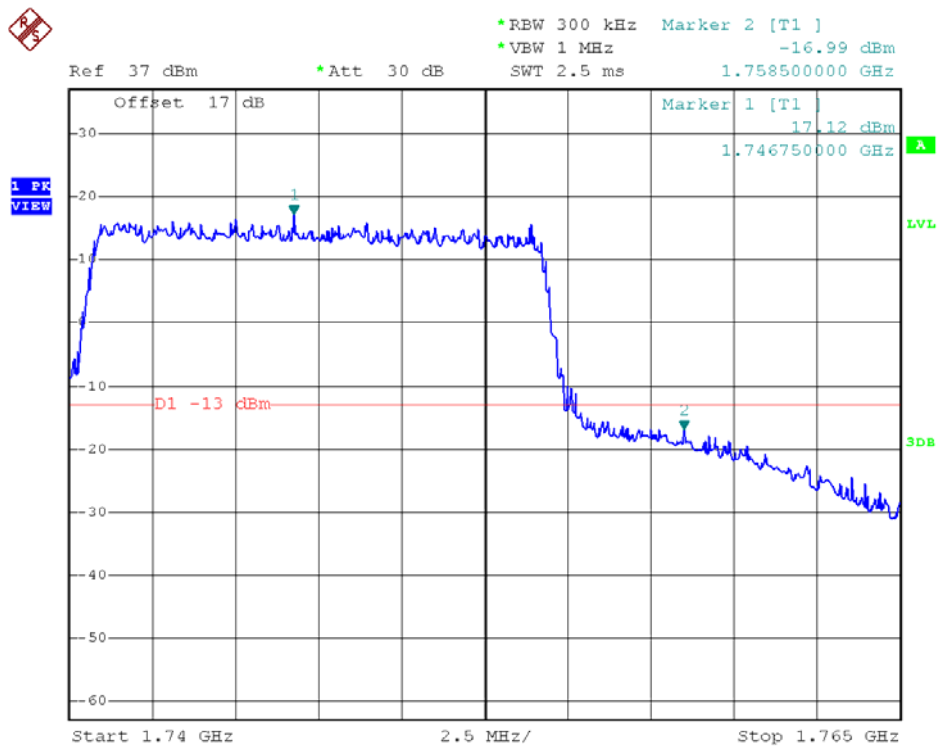
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 75, RB Offset 0



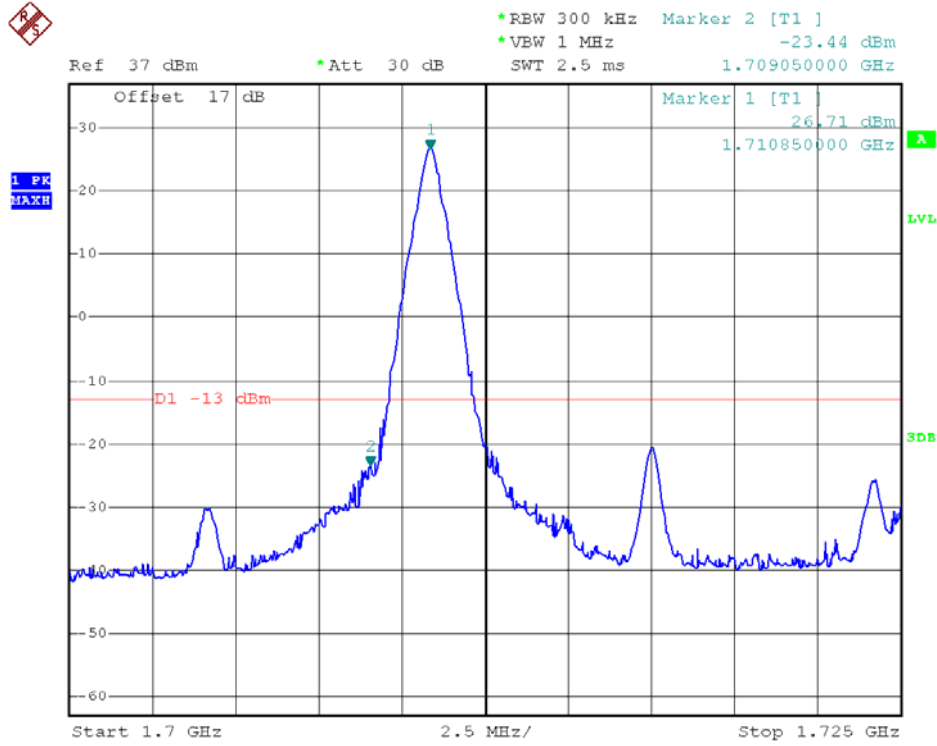
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 74



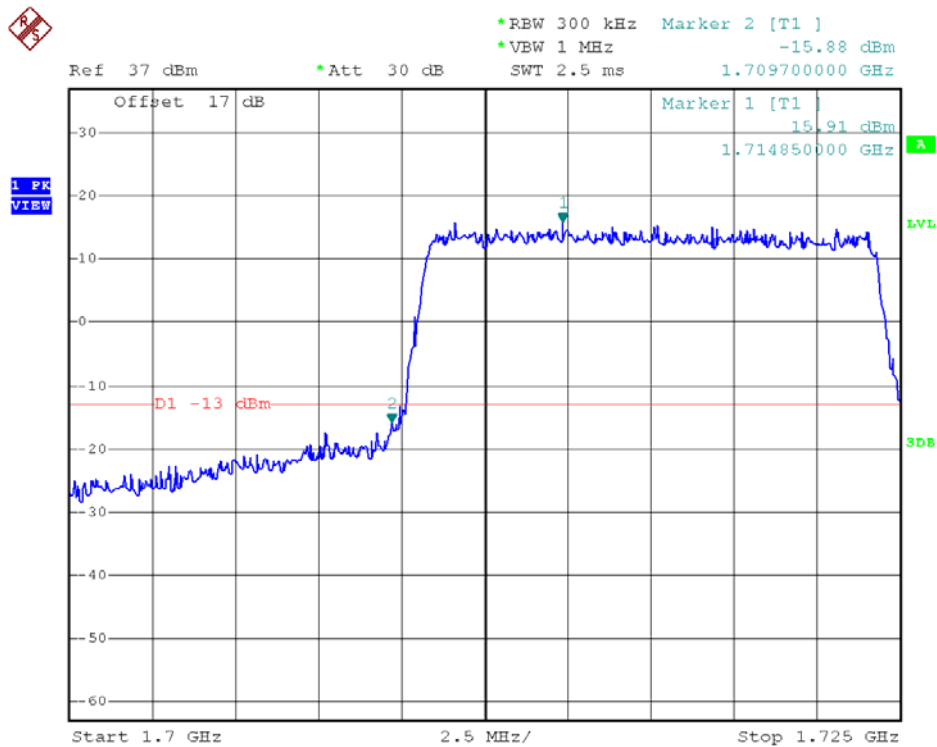
Higher Band Edge Plot for QPSK-RB Size 75, RB Offset 0



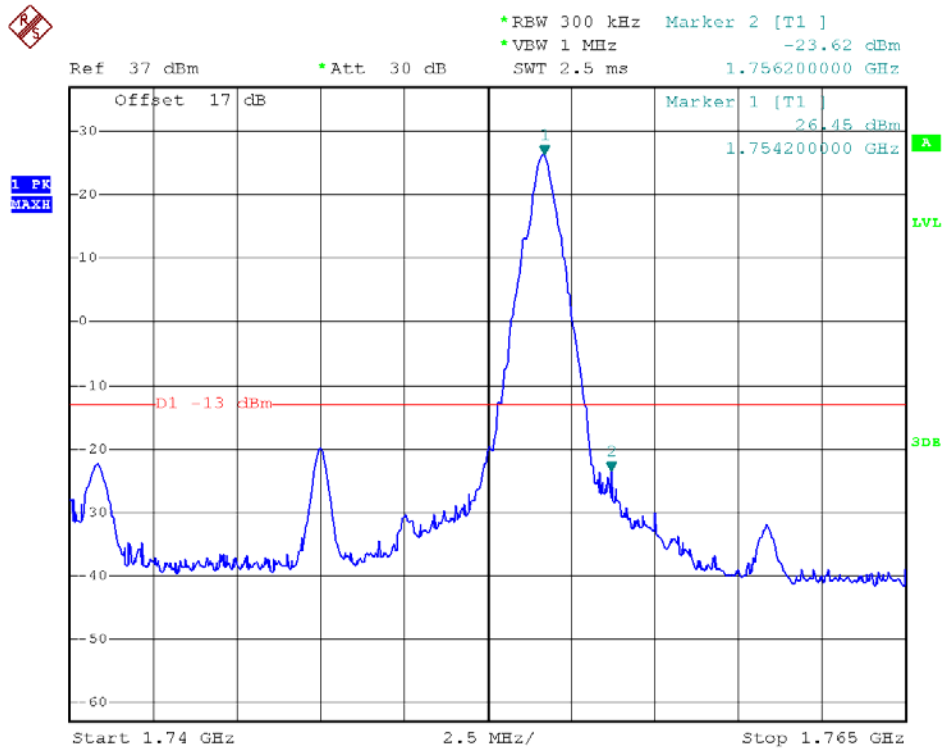
Band	LTE Band 4	Modulation	16QAM
Bandwidth	15MHz		



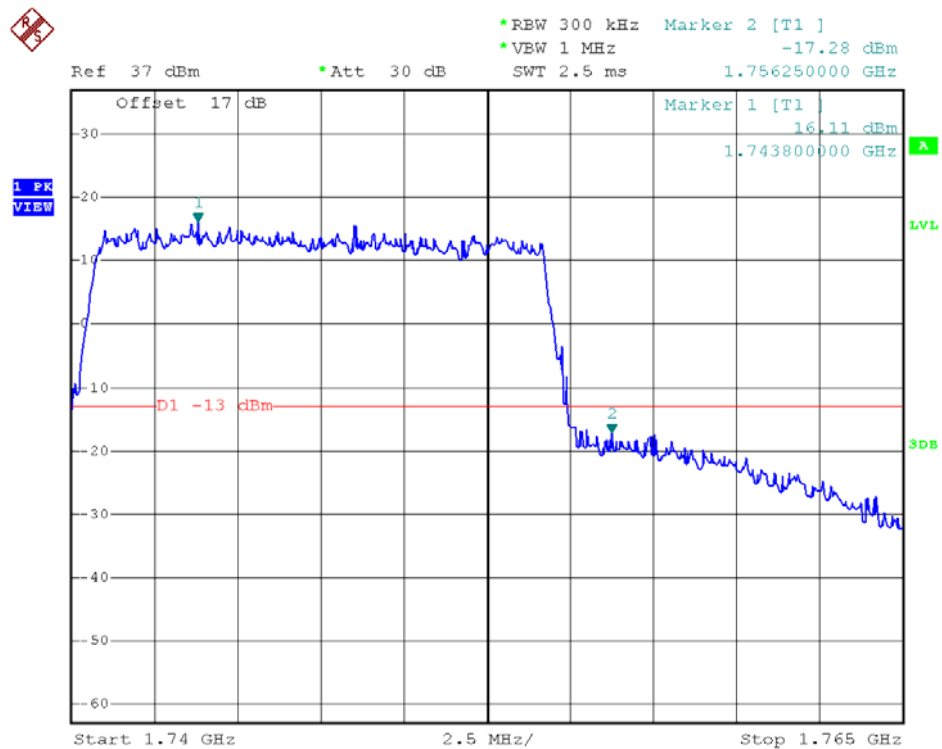
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



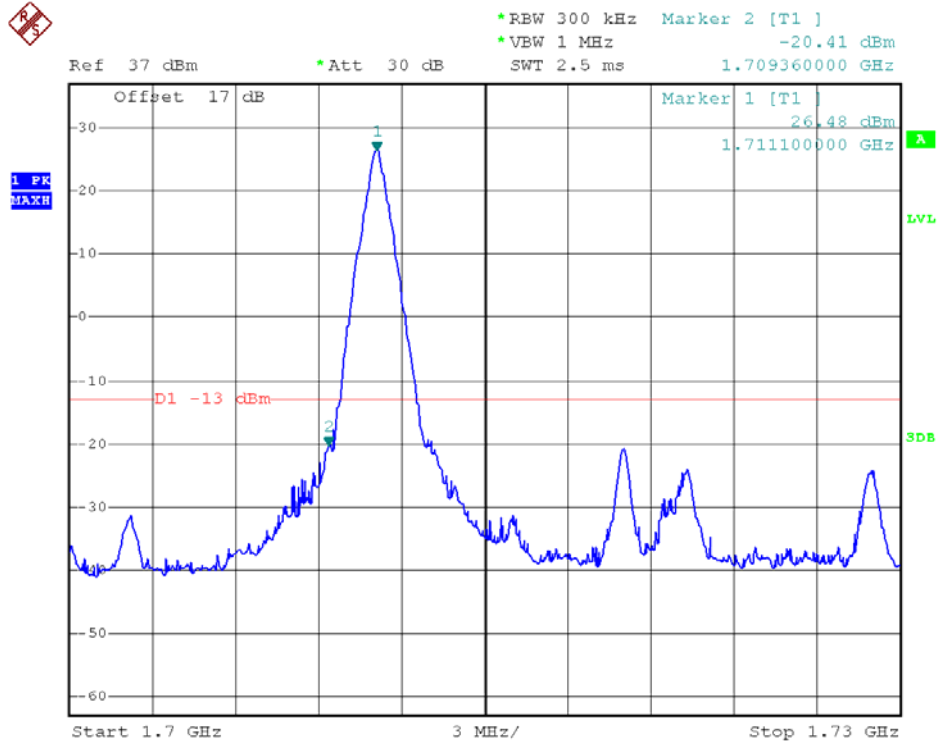
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



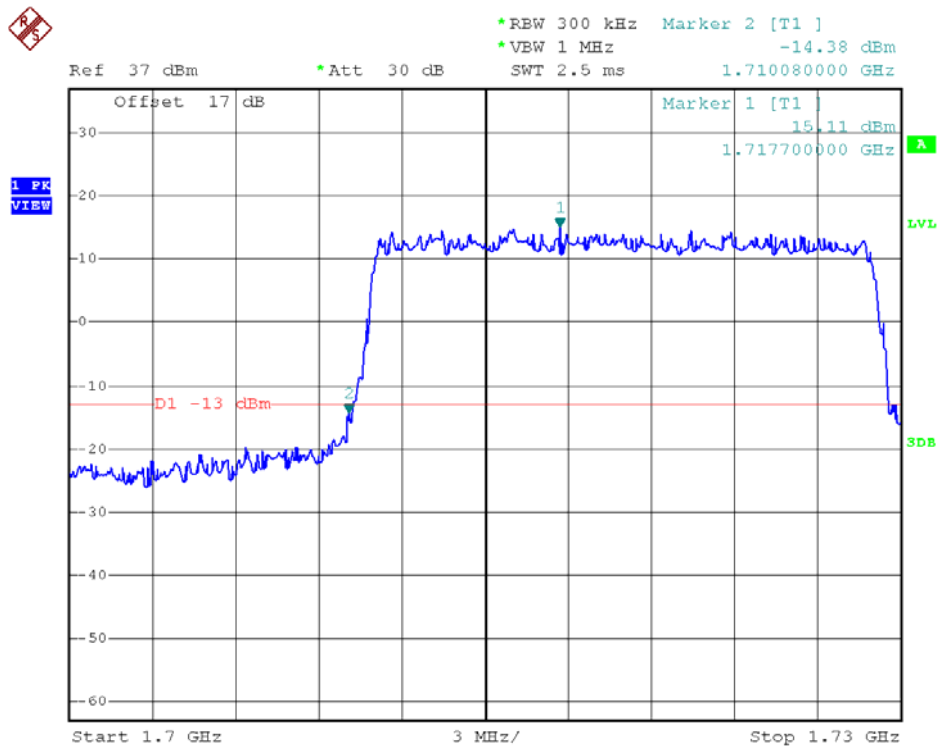
Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



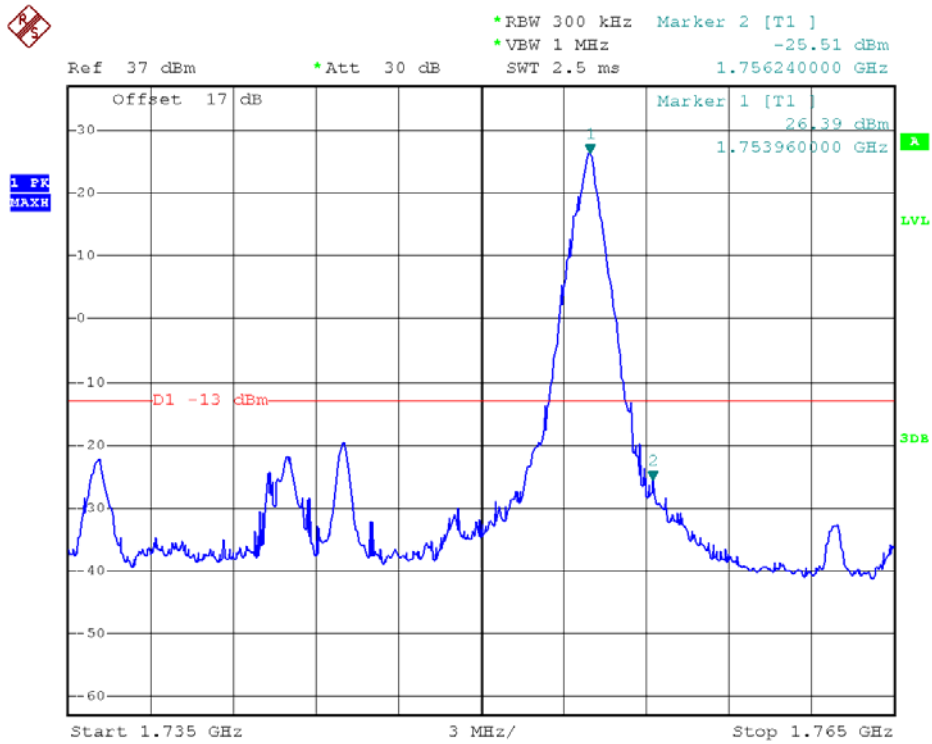
Band	LTE Band 4	Modulation	QPSK
Bandwidth	20MHz		



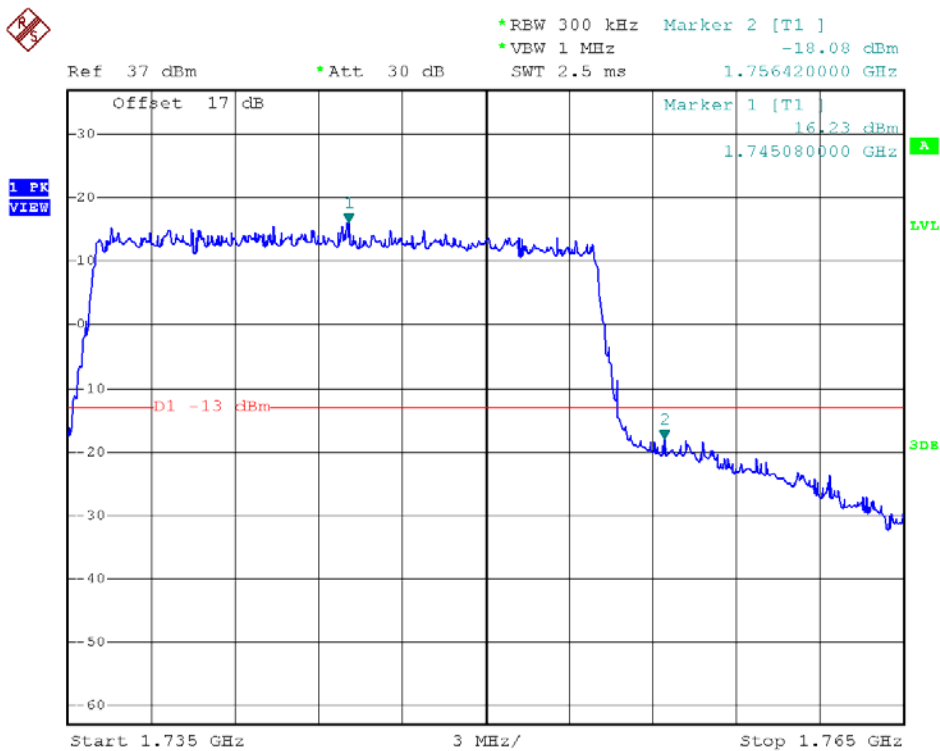
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 100, RB Offset 0

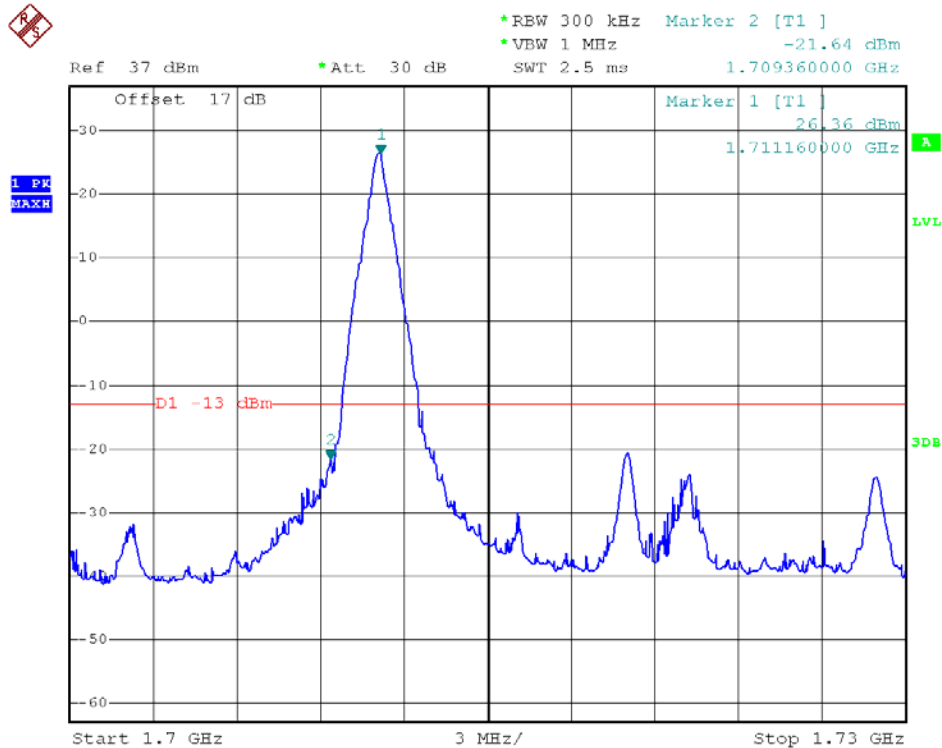


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 99

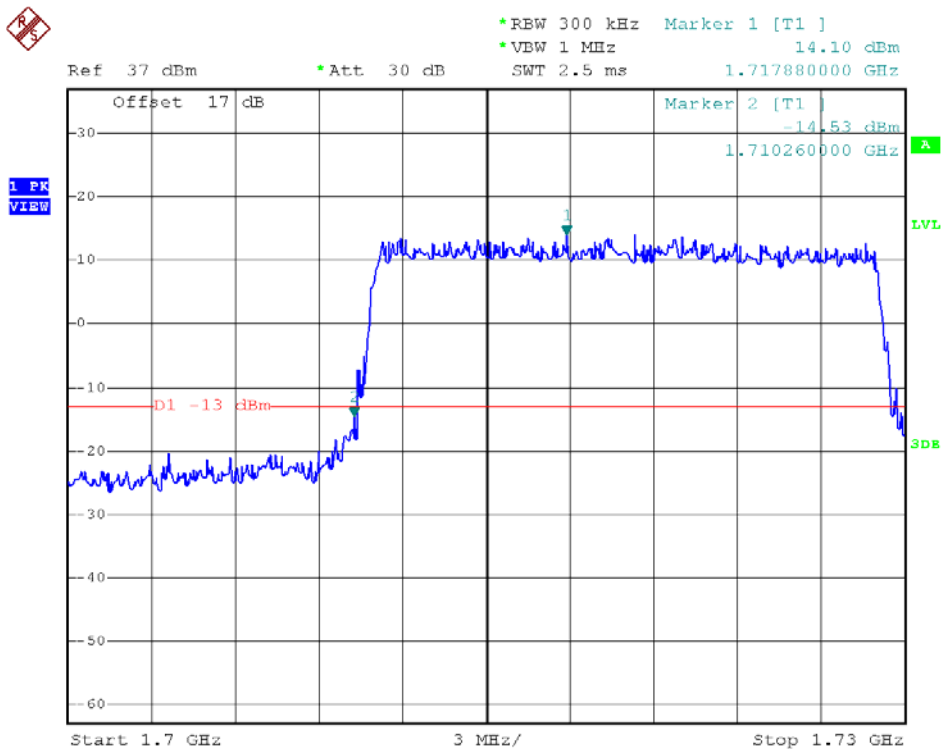


Higher Band Edge Plot for QPSK-RB Size 100, RB Offset 0

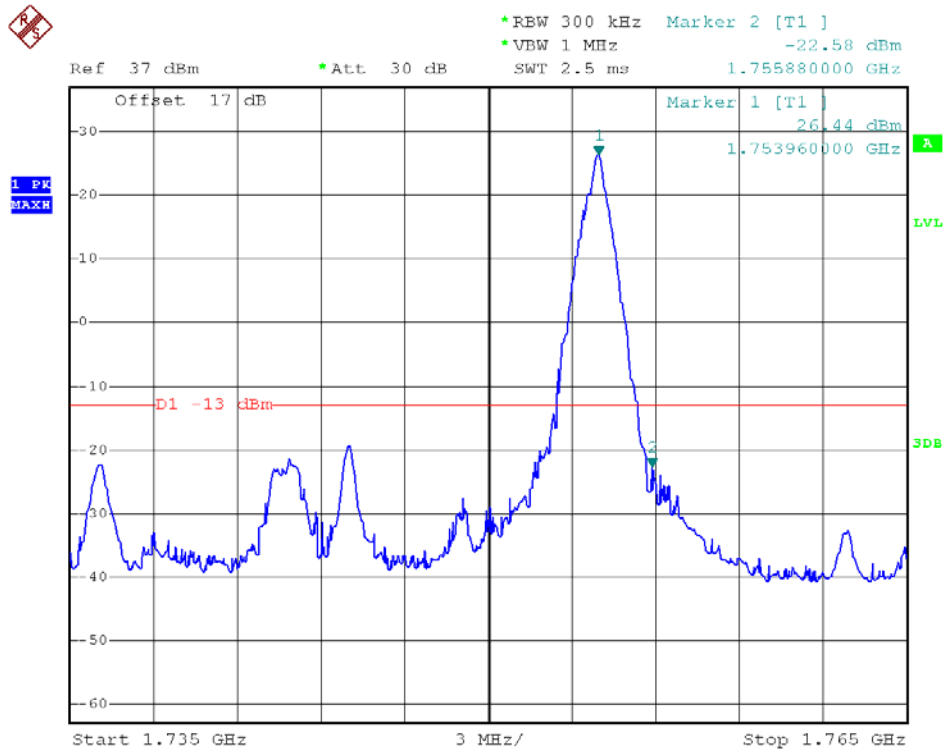
Band	LTE Band 4	Modulation	16QAM
Bandwidth	20MHz		



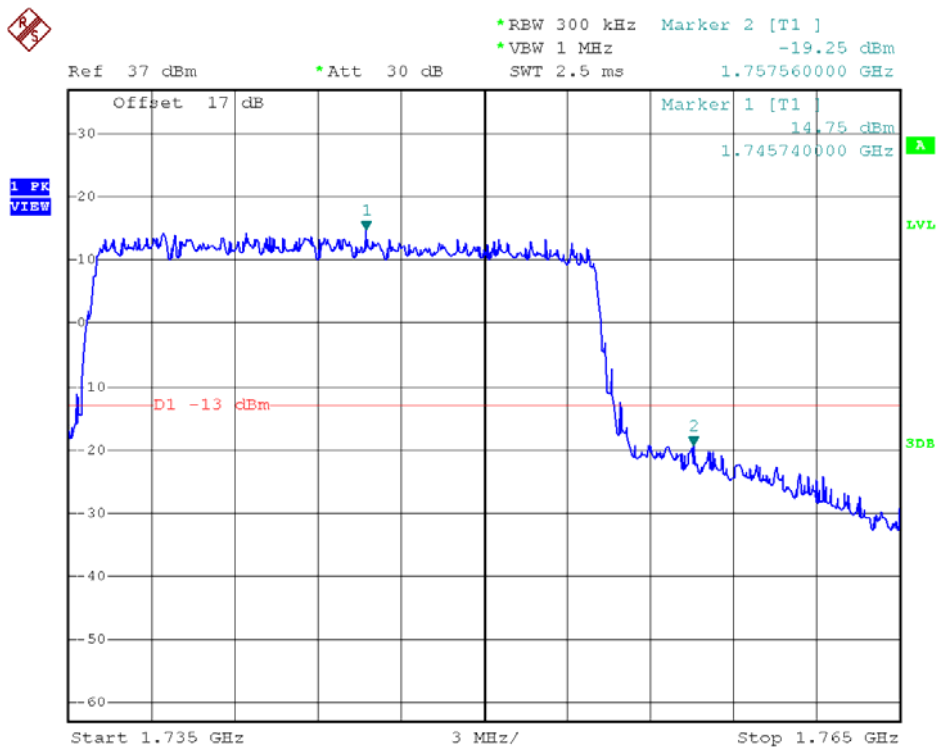
Lower Band Edge Plot for 16QAM -RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



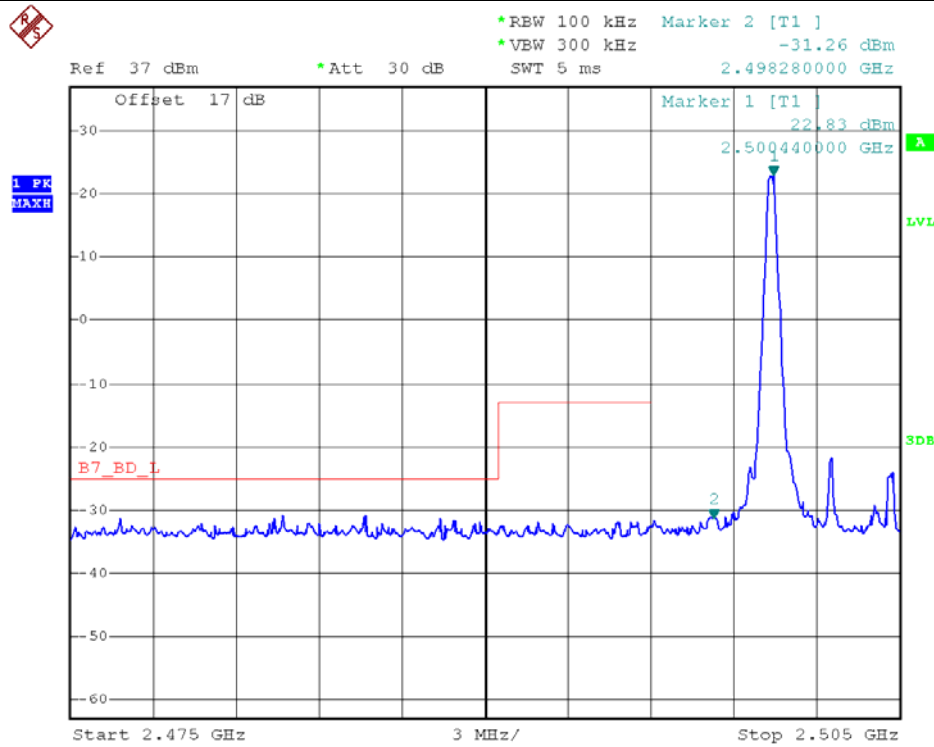
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



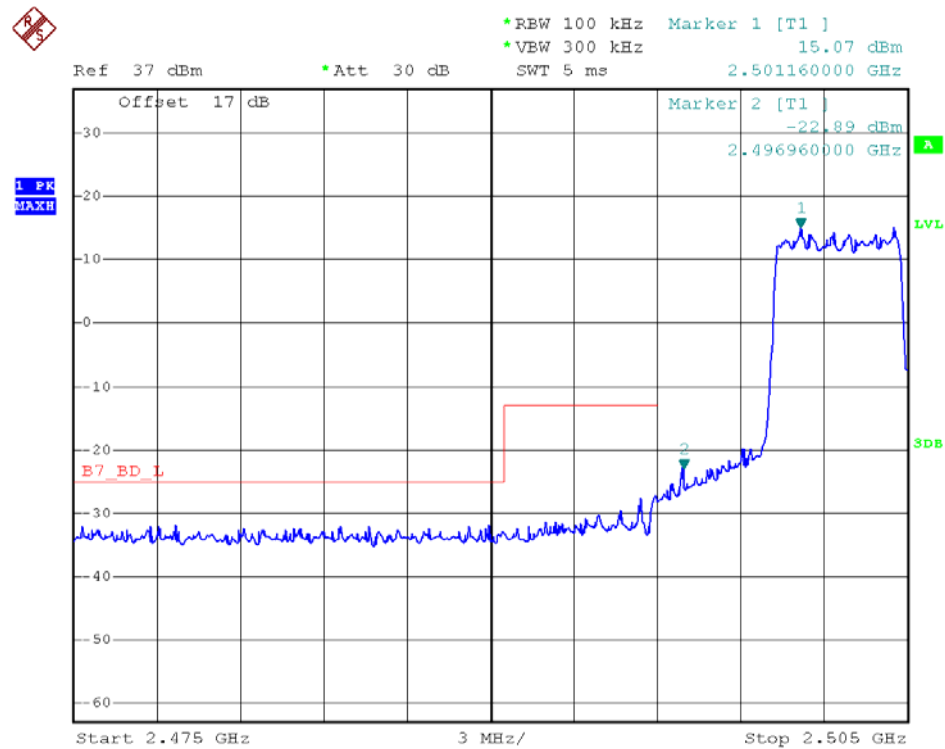
Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



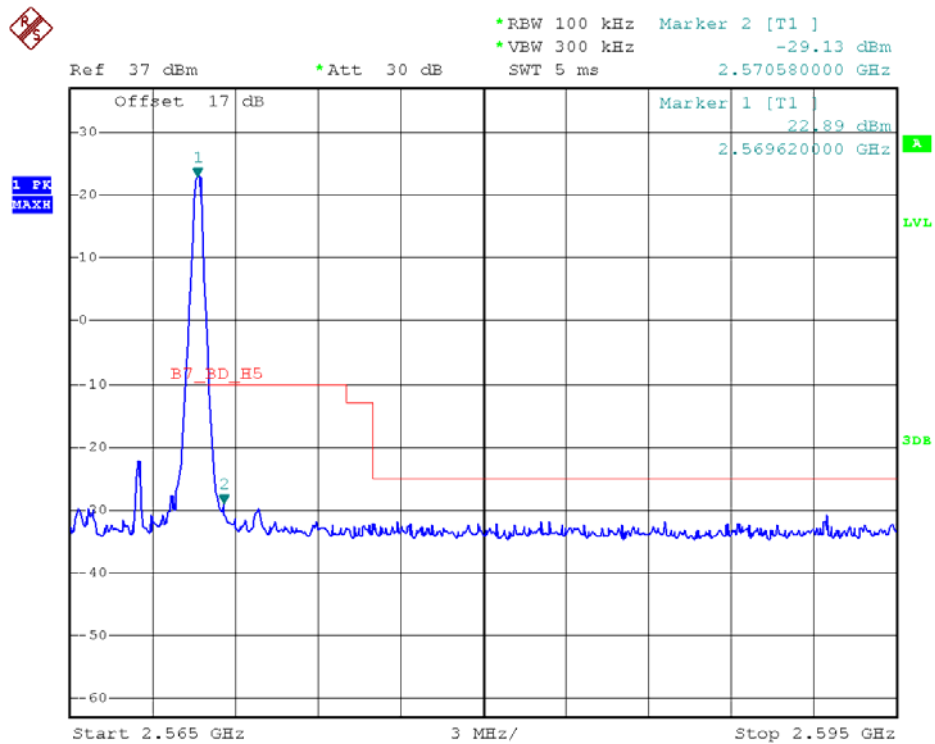
Band	LTE Band 7	Modulation	QPSK
Bandwidth	5MHz		



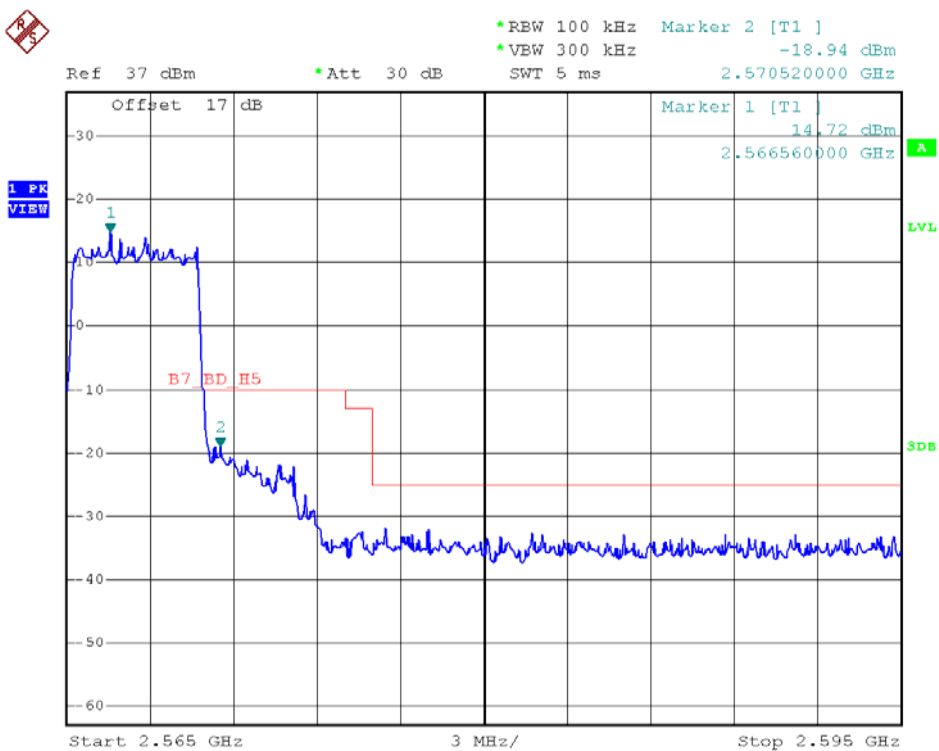
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 25, RB Offset 0



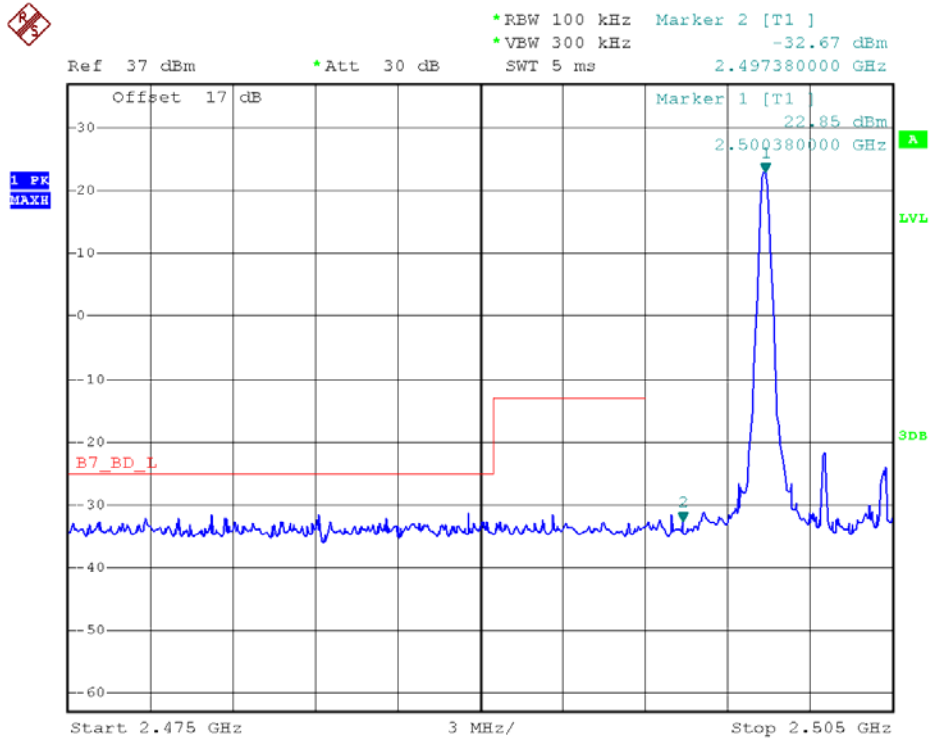
Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 24



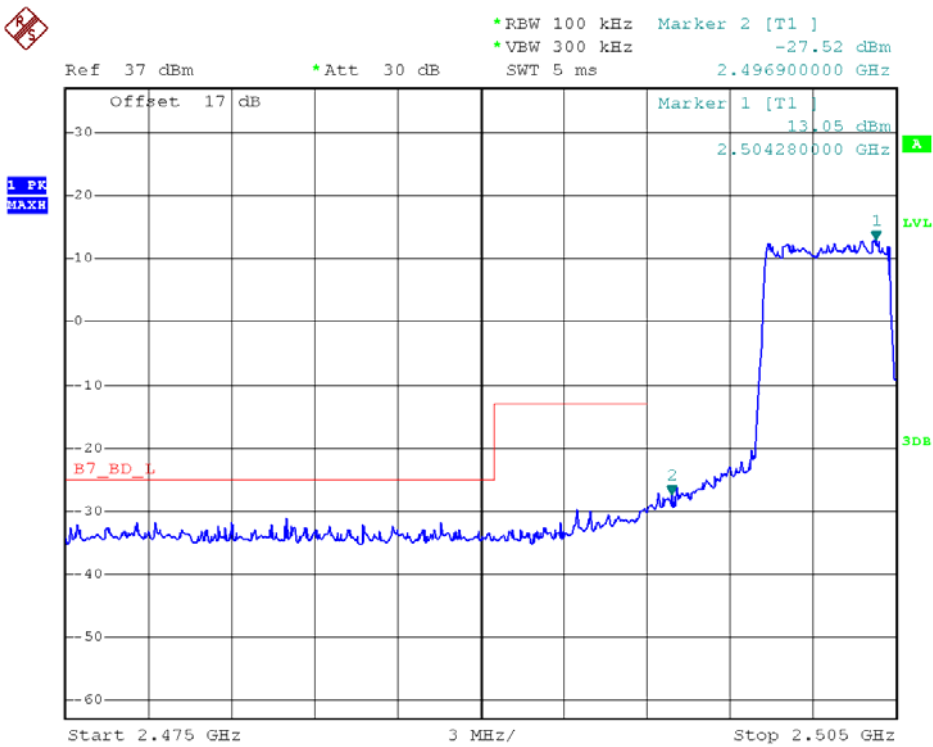
Higher Band Edge Plot for QPSK-RB Size 25, RB Offset 0



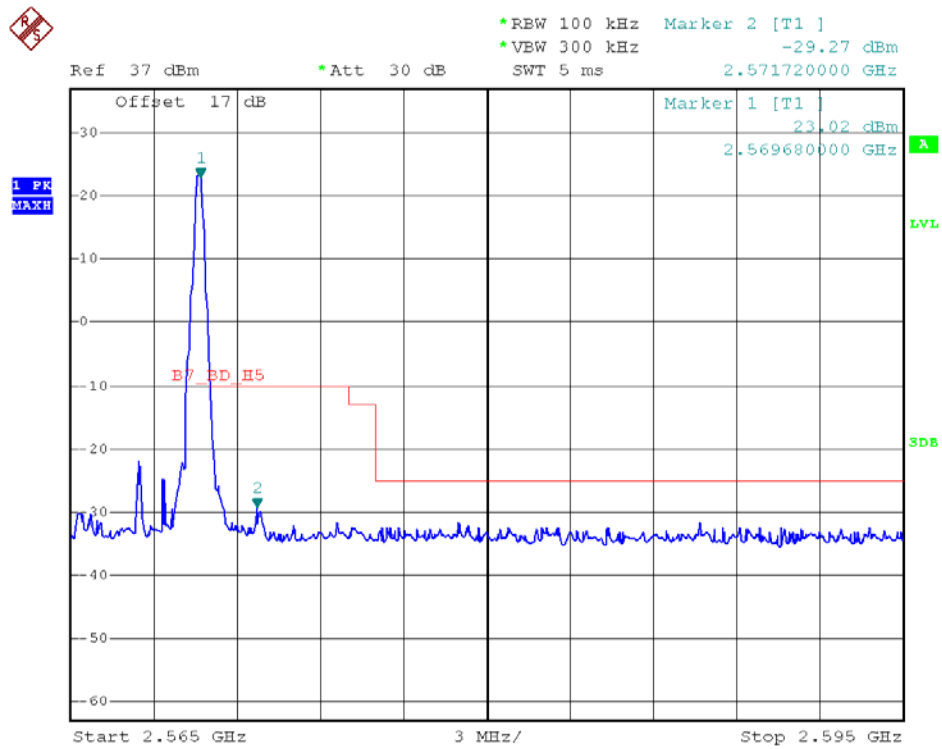
Band	LTE Band 7	Modulation	16QAM
Bandwidth	5MHz		



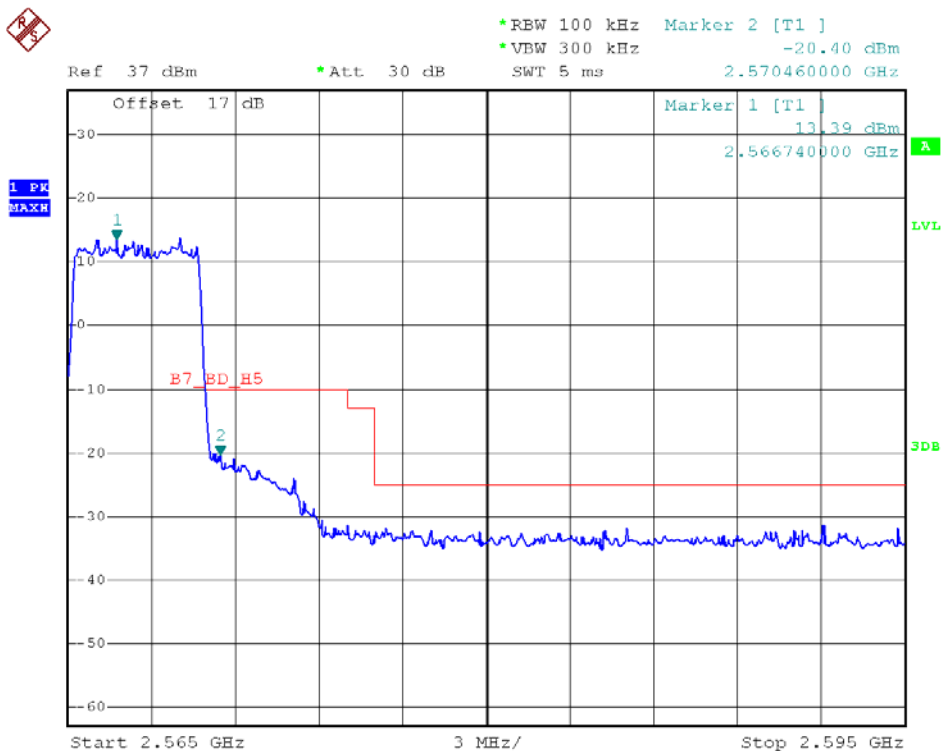
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



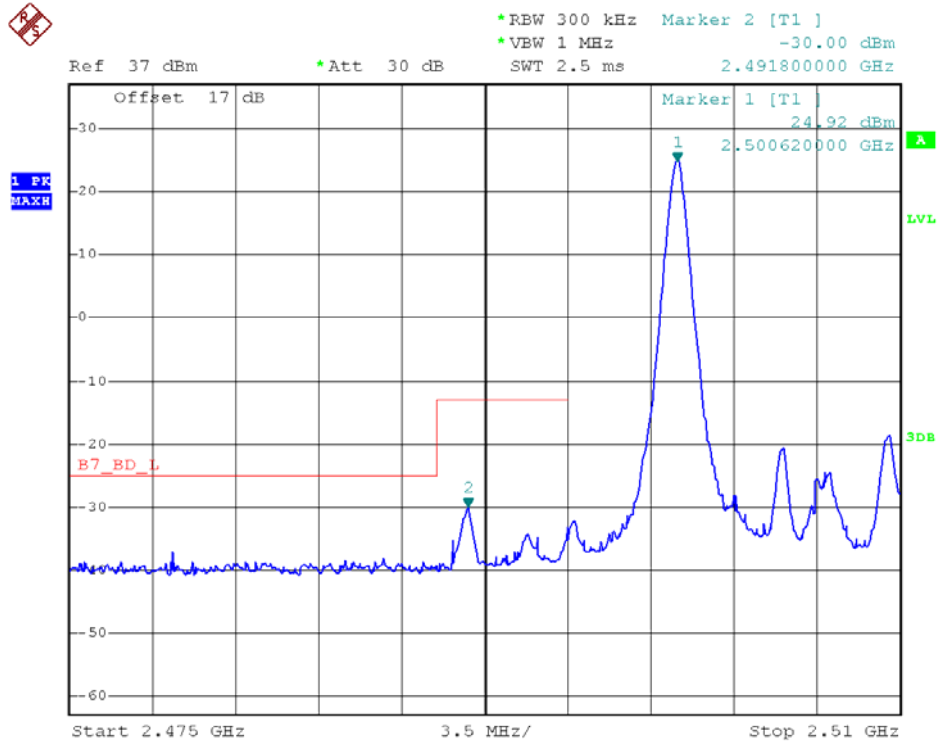
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 24



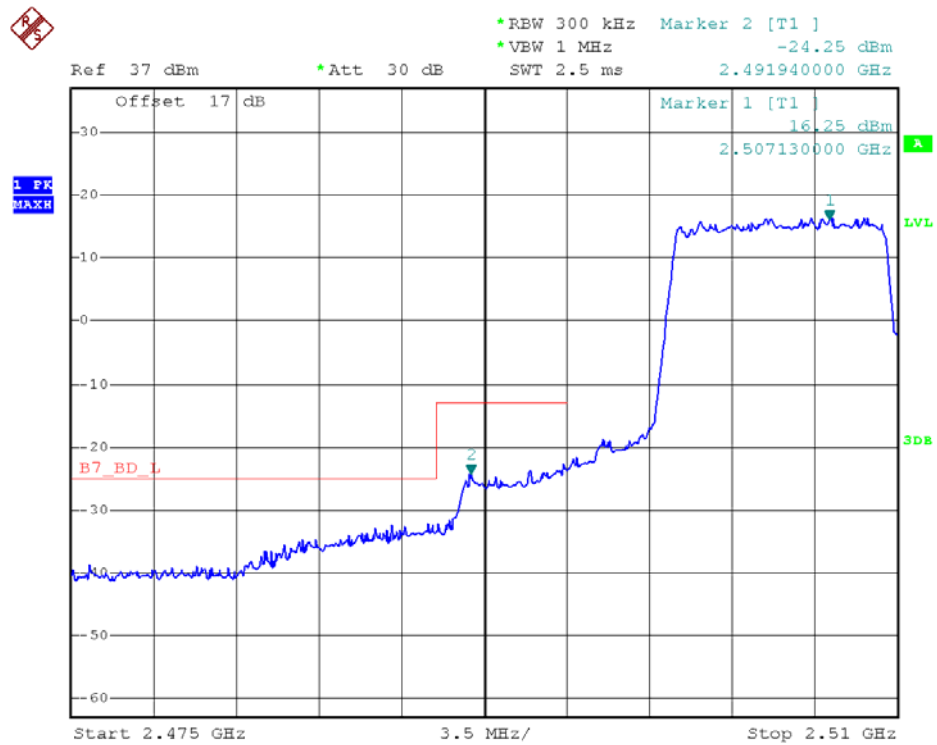
Higher Band Edge Plot for 16QAM -RB Size 25, RB Offset 0



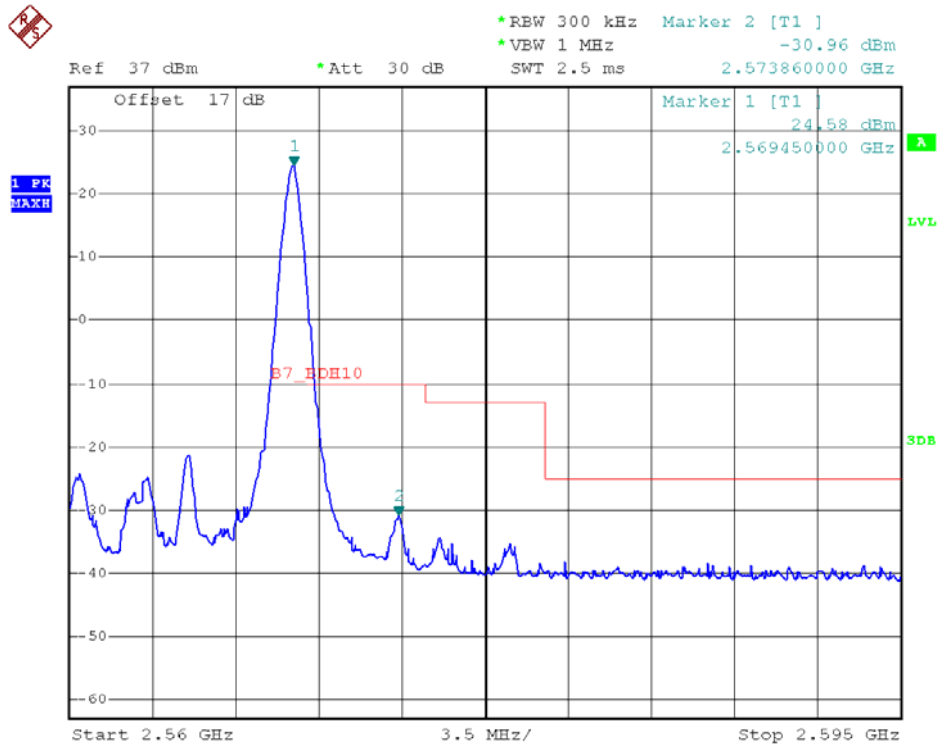
Band	LTE Band 7	Modulation	QPSK
Bandwidth	10MHz		



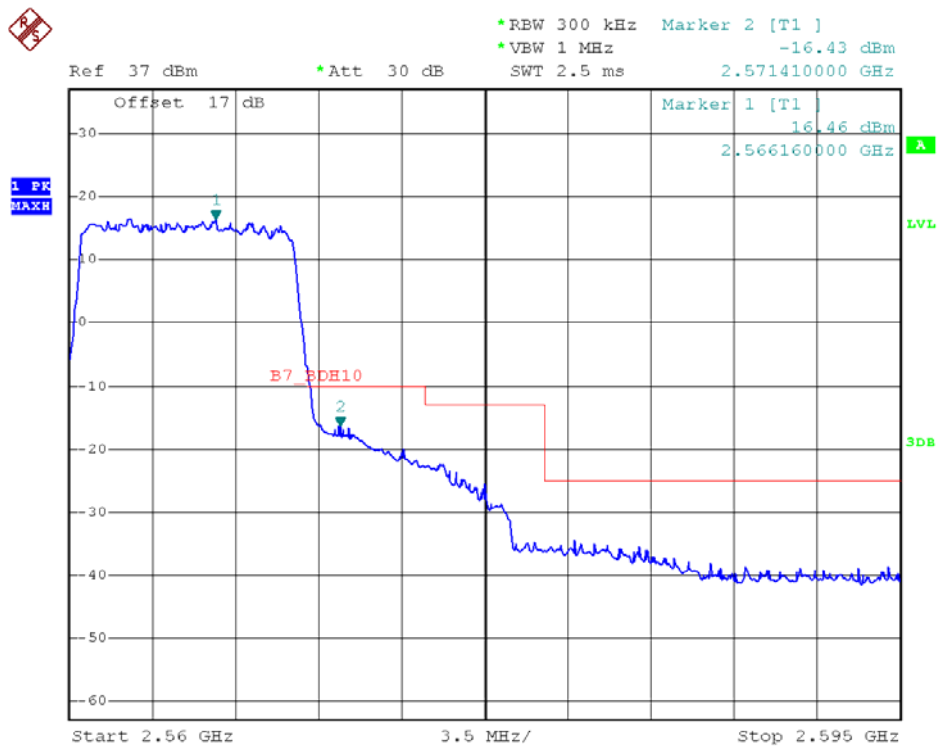
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK-RB Size 50, RB Offset 0

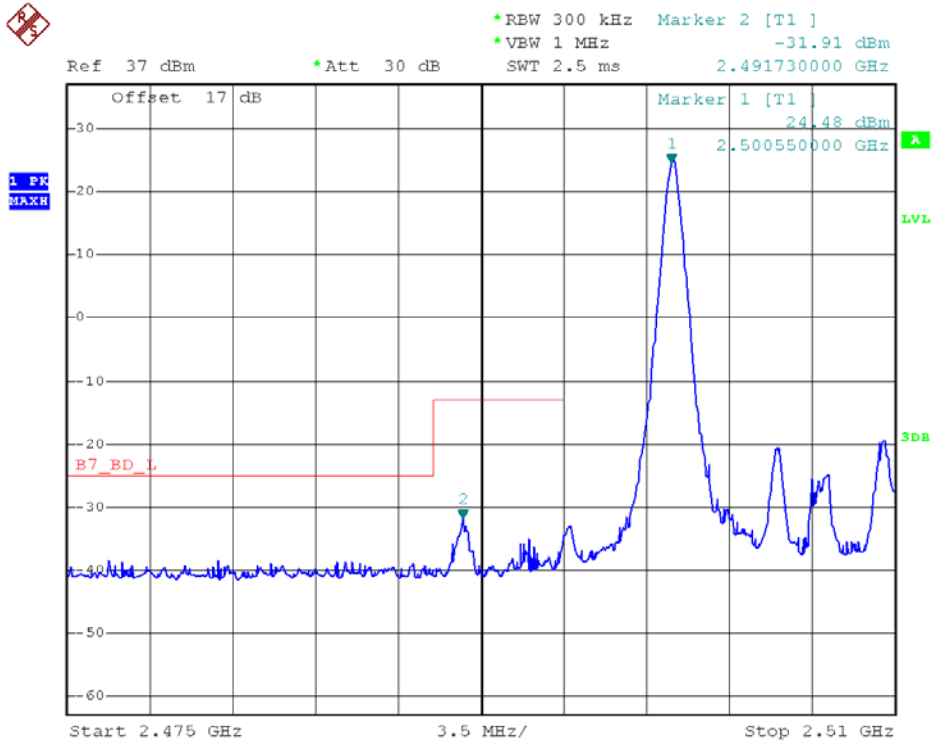


Higher Band Edge Plot for QPSK-RB Size 1, RB Offset 49

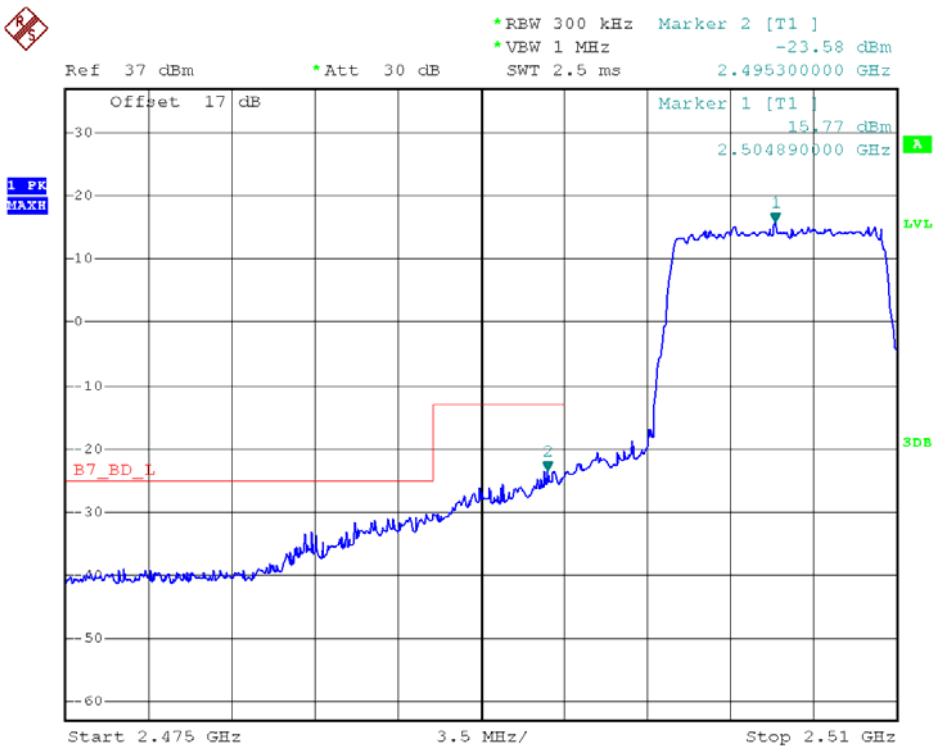


Higher Band Edge Plot for QPSK-RB Size 50, RB Offset 0

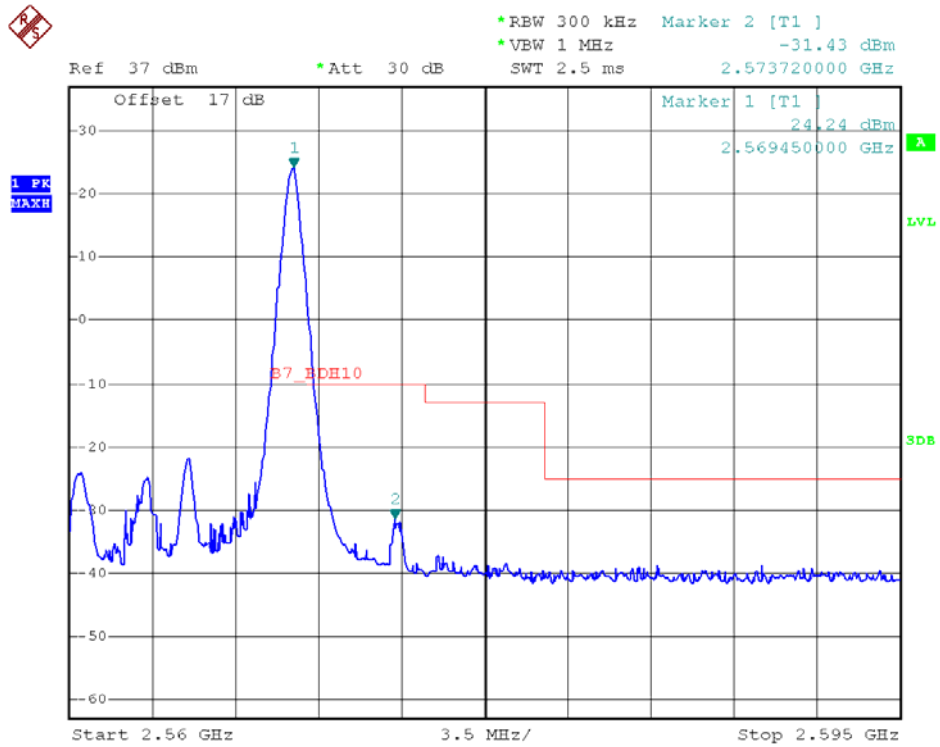
Band	LTE Band 7	Modulation	16QAM
Bandwidth	10MHz		



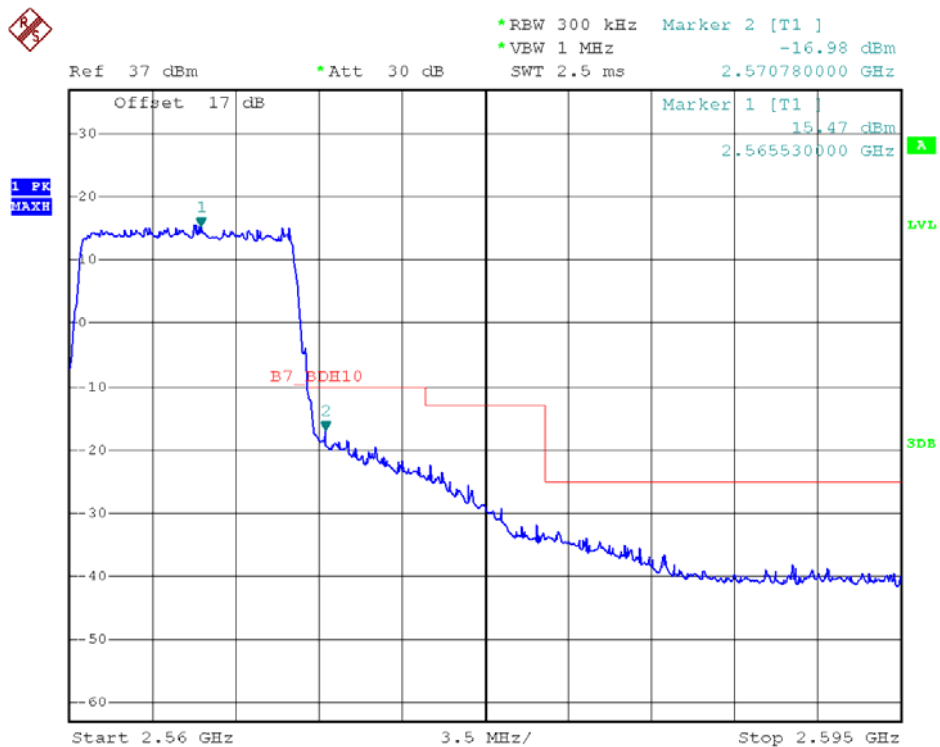
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



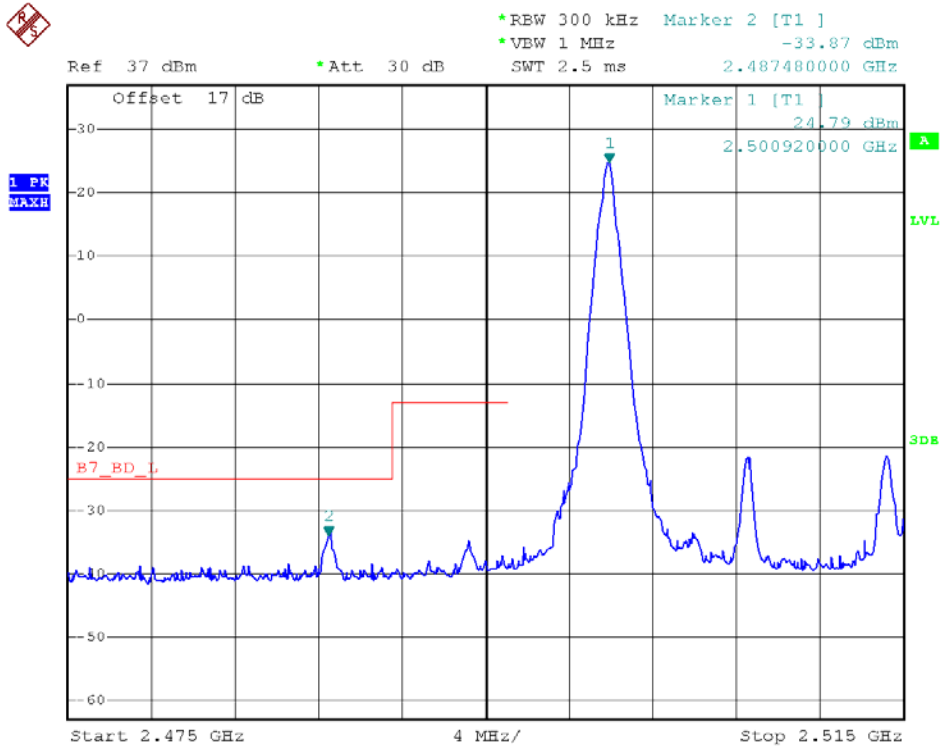
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 49



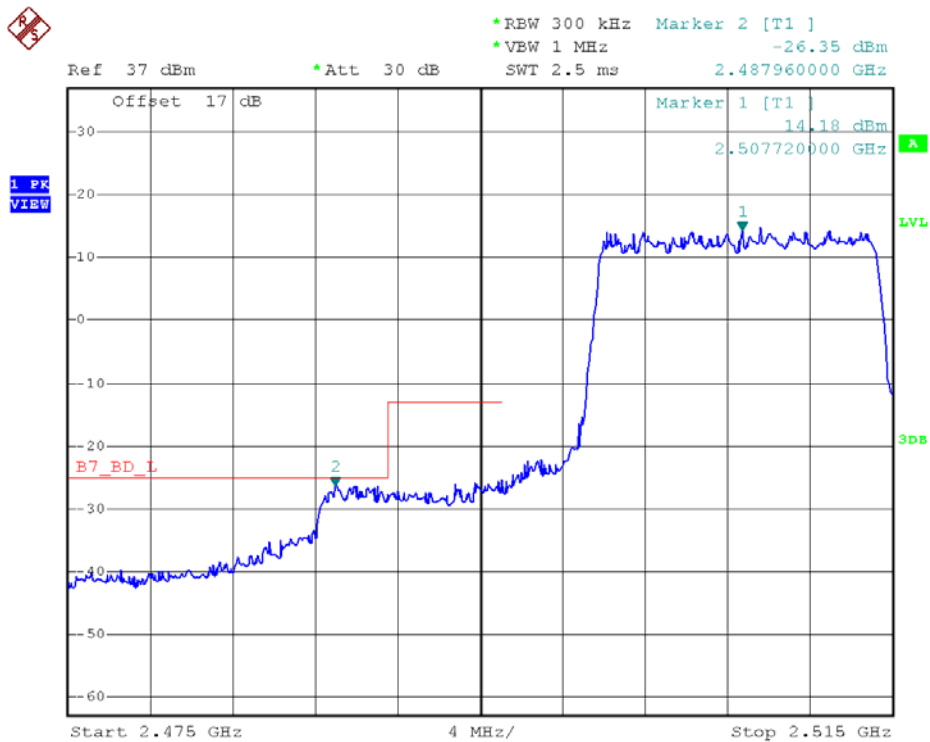
Higher Band Edge Plot for 16QAM -RB Size 50, RB Offset 0



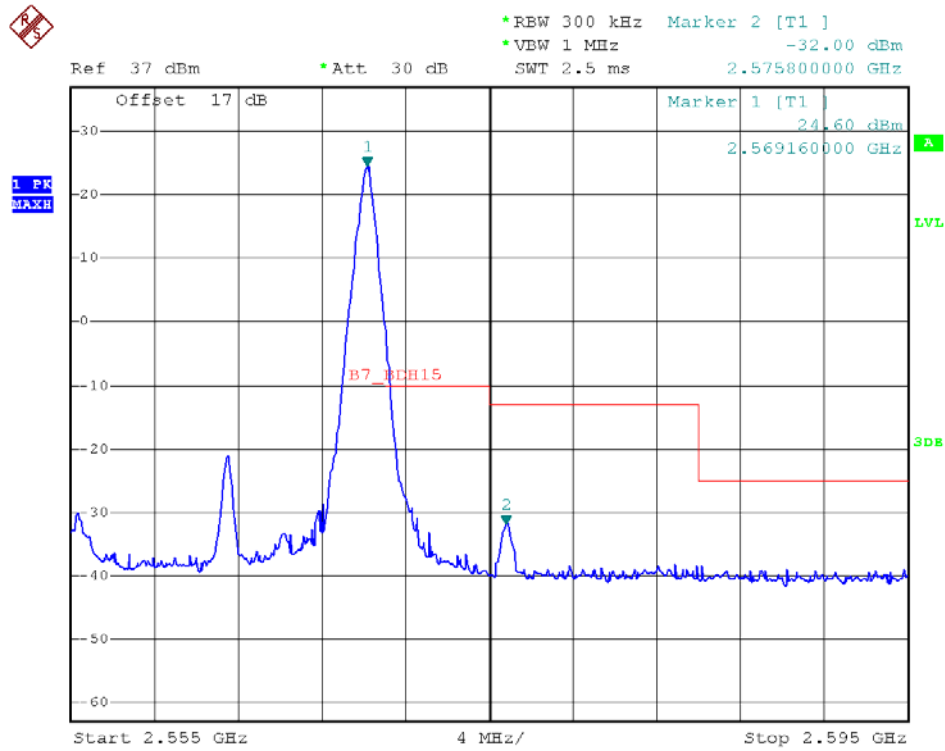
Band	LTE Band 7	Modulation	QPSK
Bandwidth	15MHz		



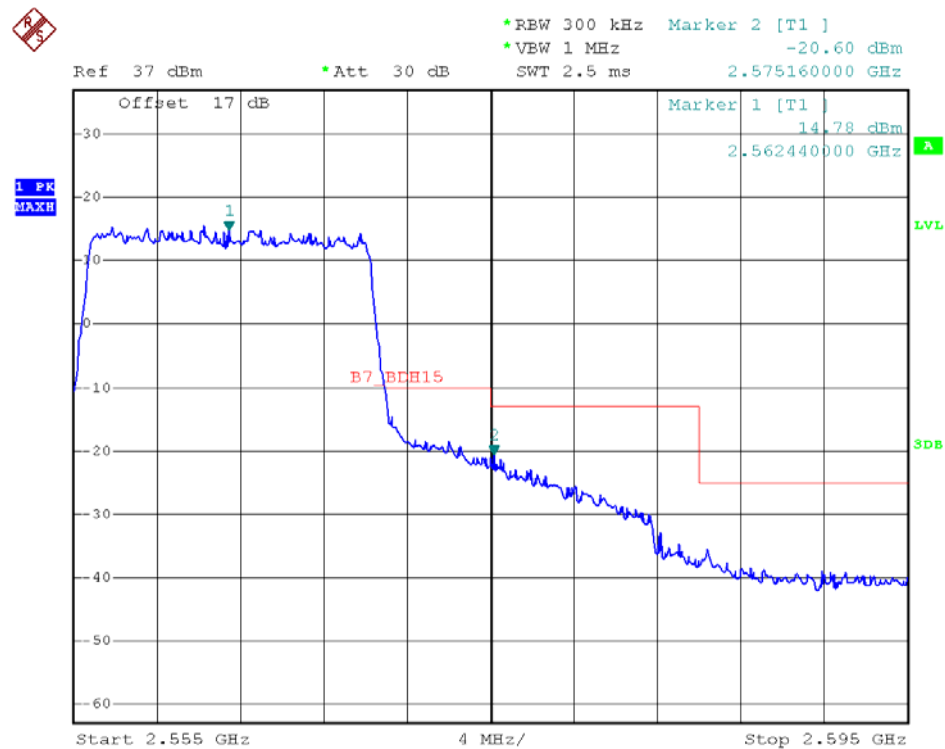
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK -RB Size 75, RB Offset 0



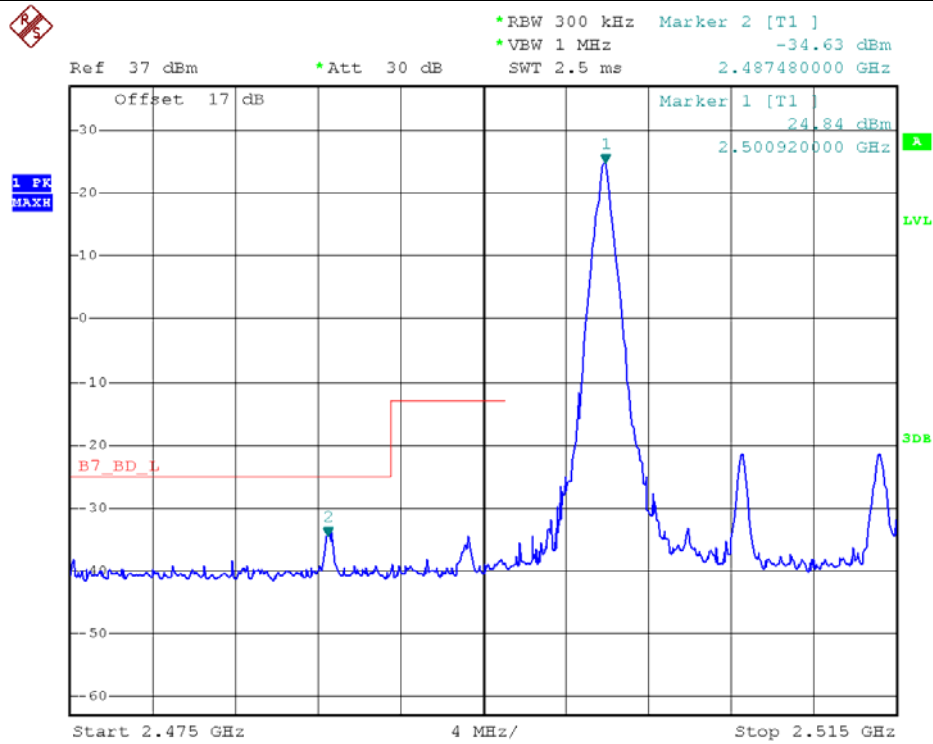
Higher Band Edge Plot for QPSK -RB Size 1, RB Offset 74



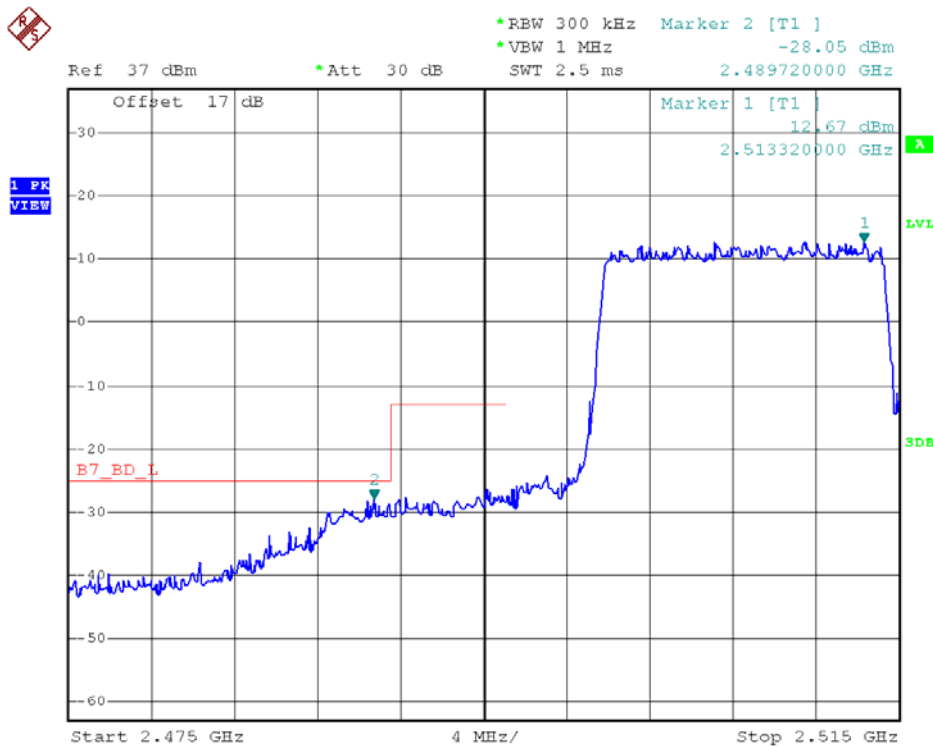
Higher Band Edge Plot for QPSK -RB Size 75, RB Offset 0



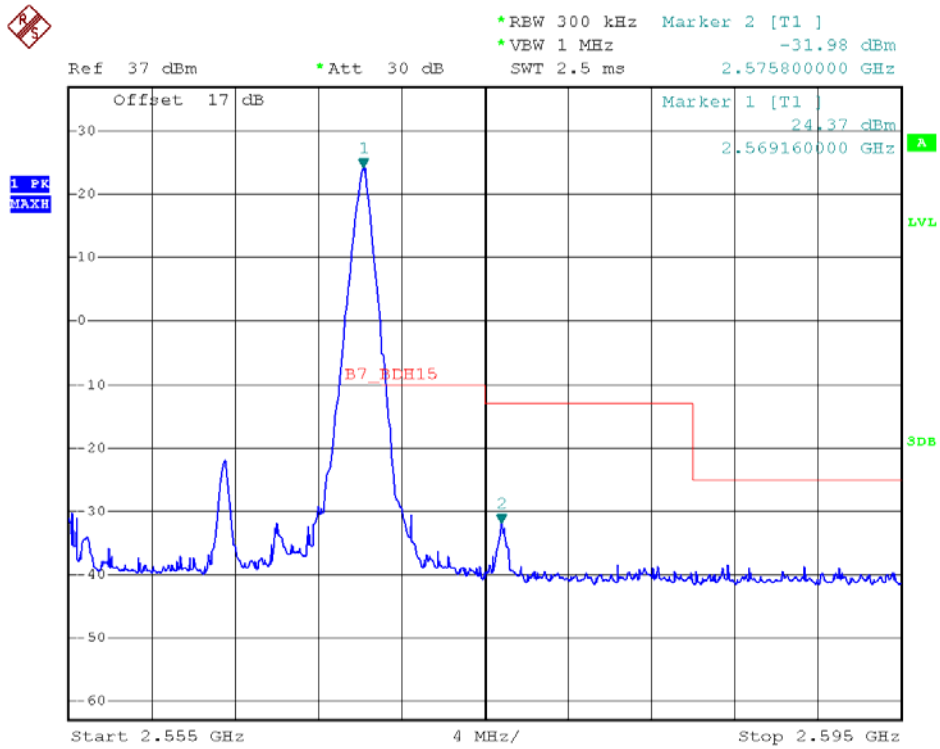
Band	LTE Band 7	Modulation	16QAM
Bandwidth	15MHz		



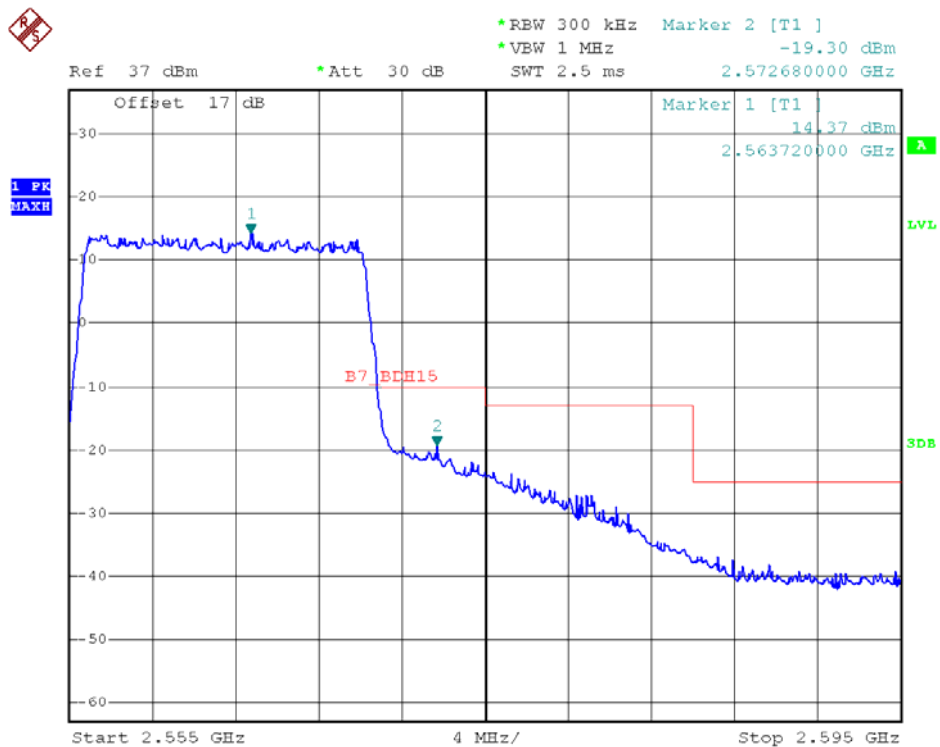
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



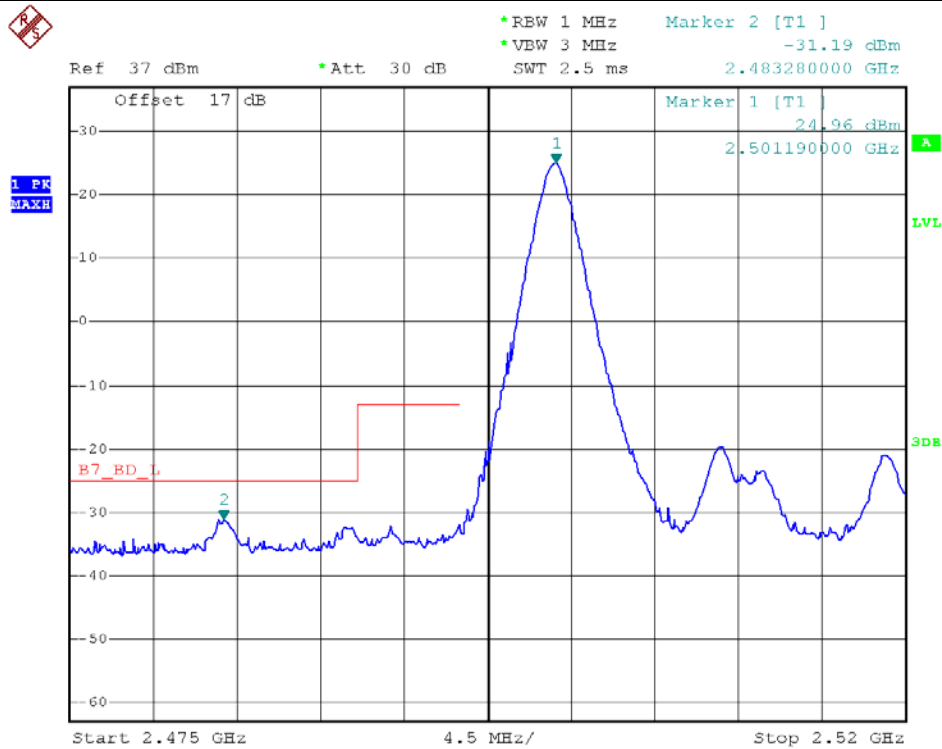
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74



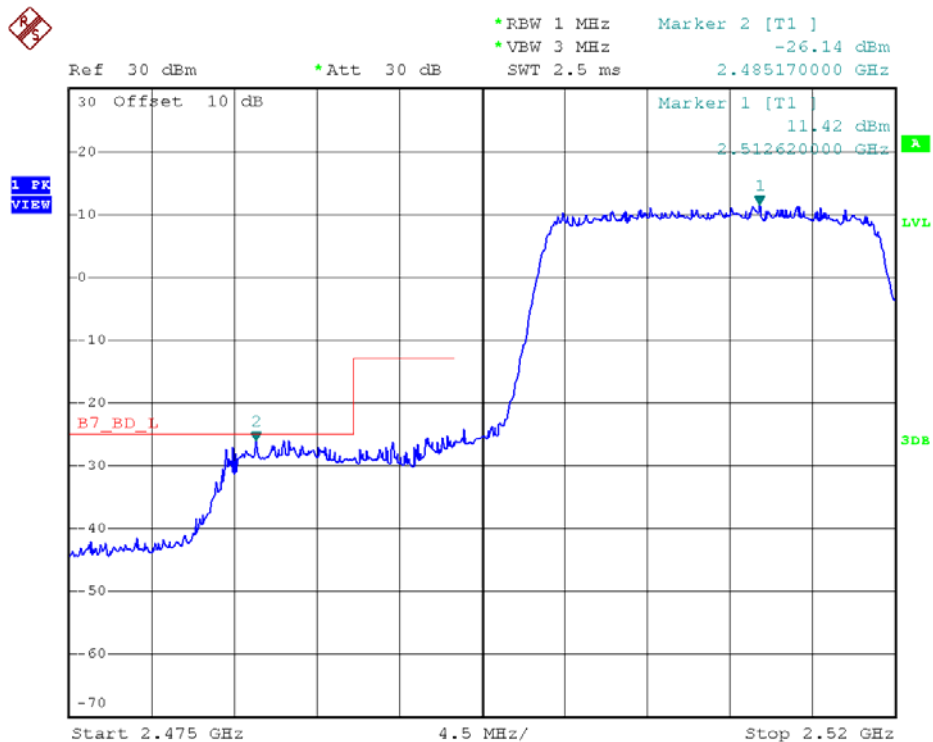
Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0



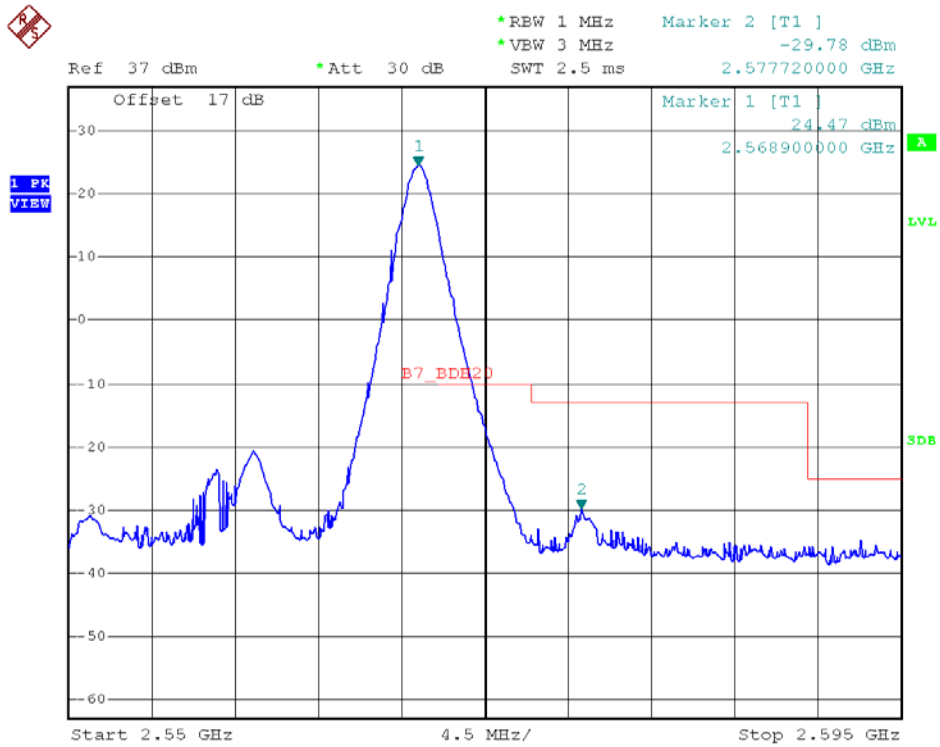
Band	LTE Band 7	Modulation	QPSK
Bandwidth	20MHz		



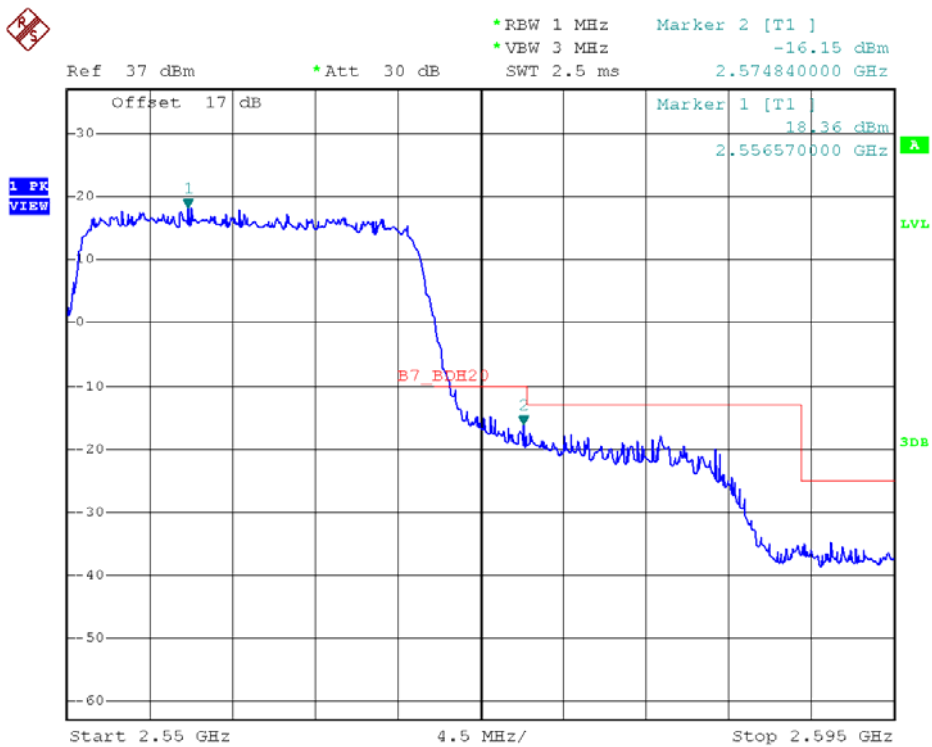
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK -RB Size 100, RB Offset 0



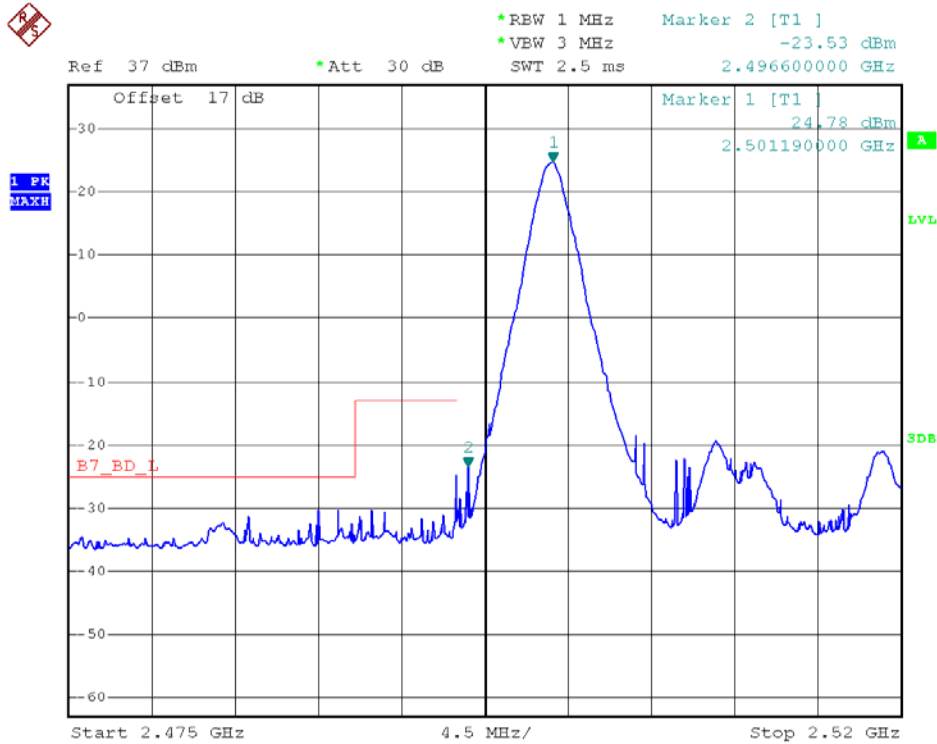
Higher Band Edge Plot for QPSK -RB Size 1, RB Offset 99



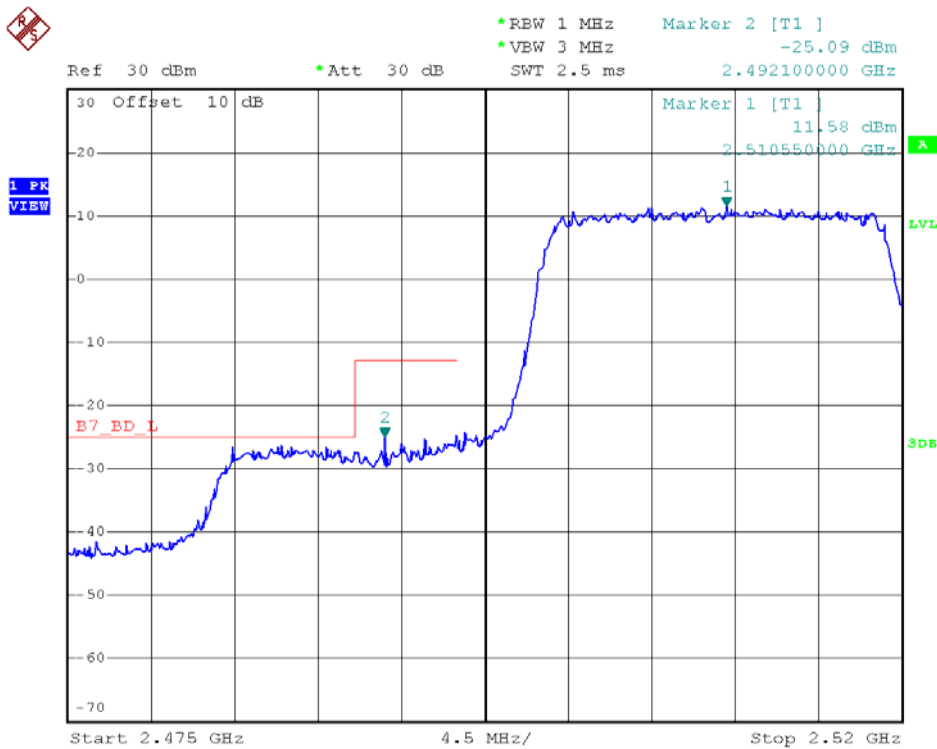
Higher Band Edge Plot for QPSK -RB Size 100, RB Offset 0



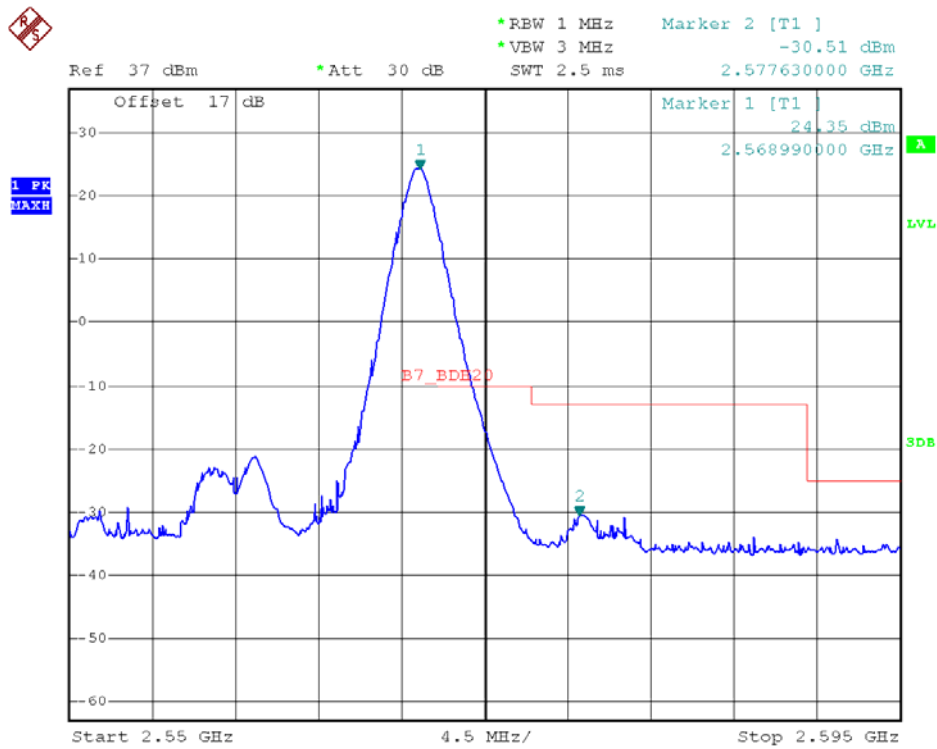
Band	LTE Band 7	Modulation	16QAM
Bandwidth	20MHz		



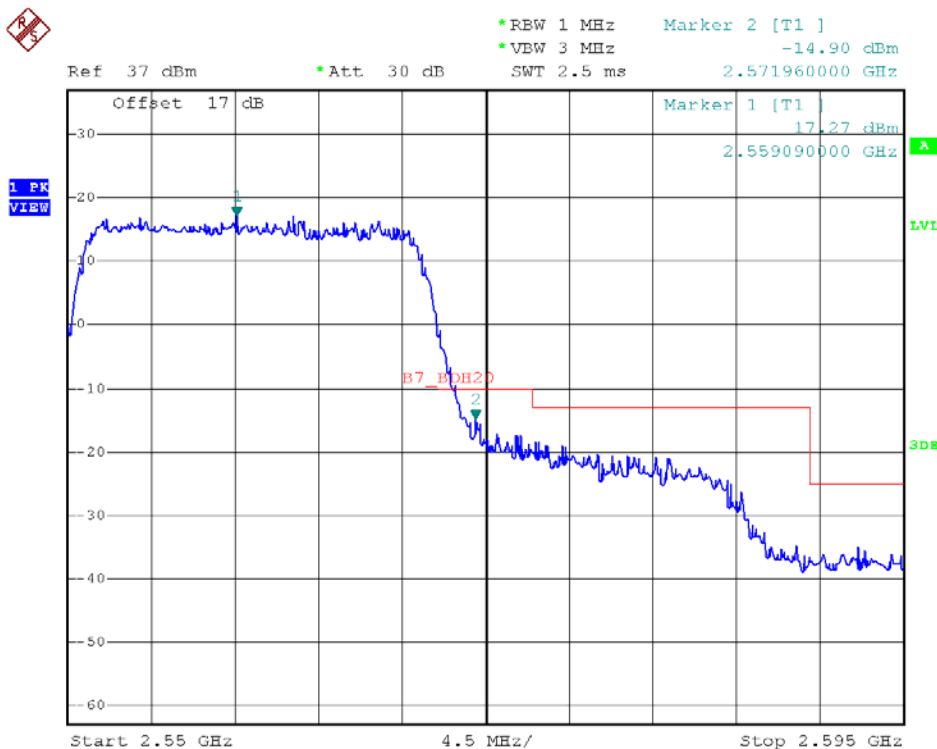
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM-RB Size 100, RB Offset 0



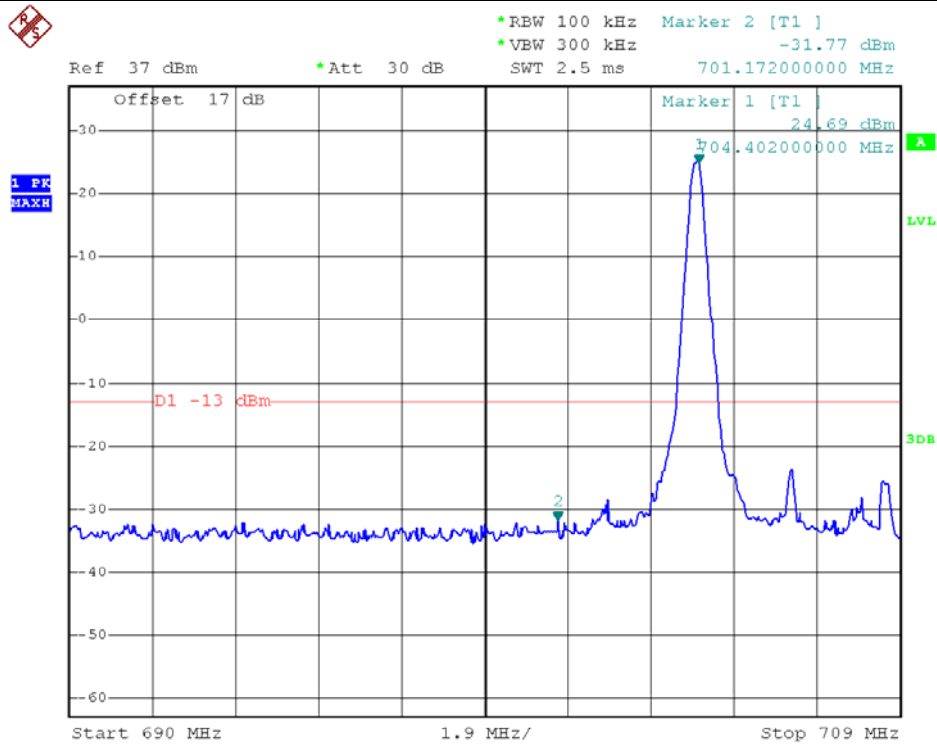
Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



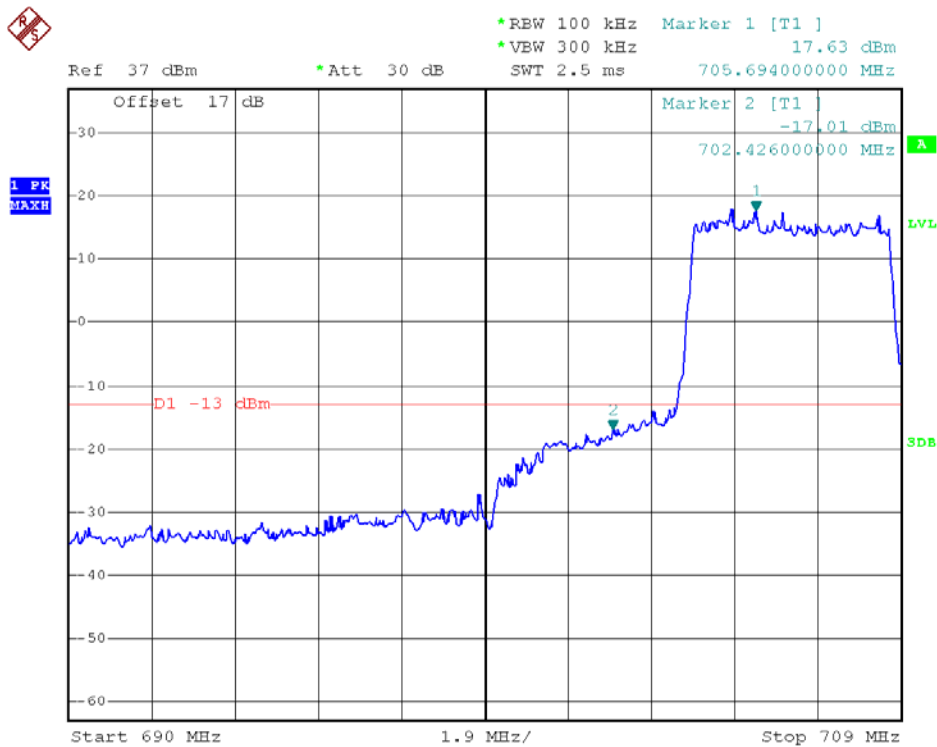
Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



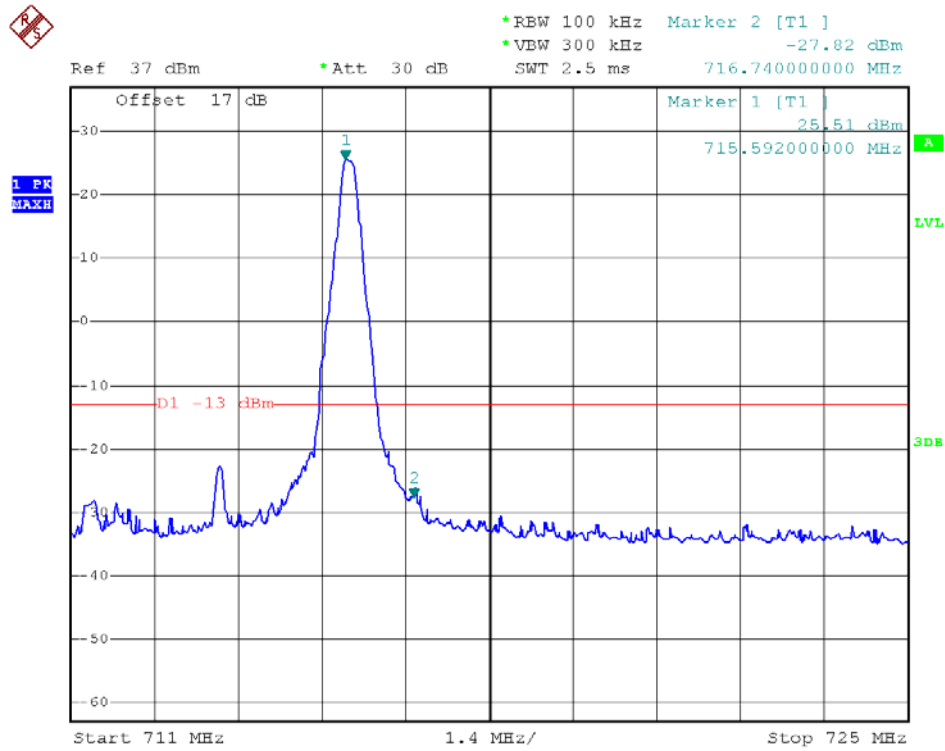
Band	LTE Band 17	Modulation	QPSK
Bandwidth	5MHz		



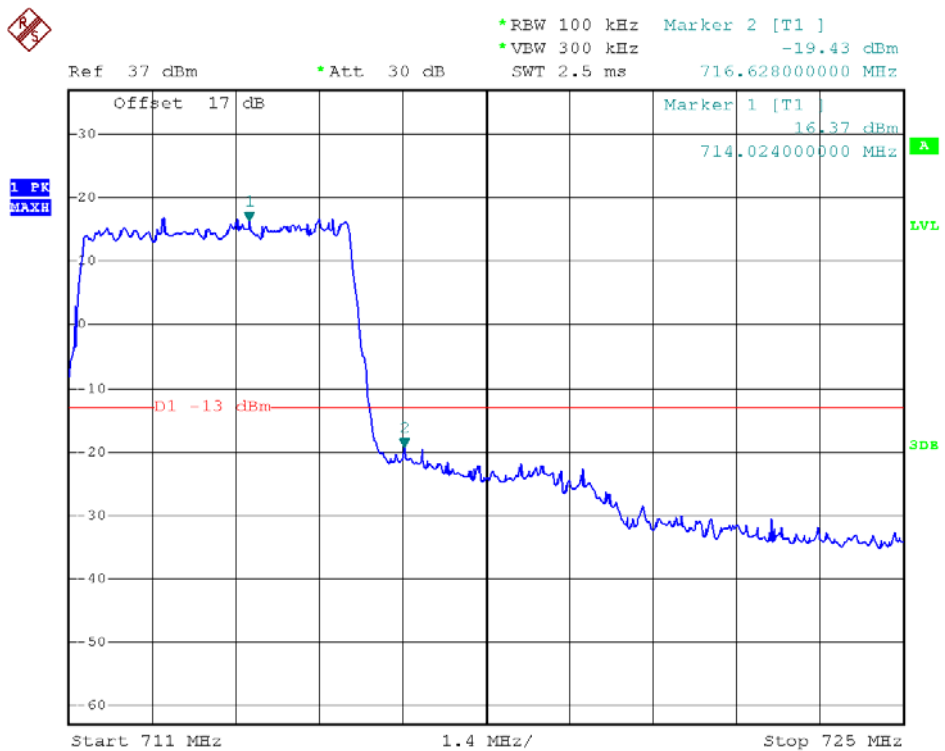
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK -RB Size 75, RB Offset 0



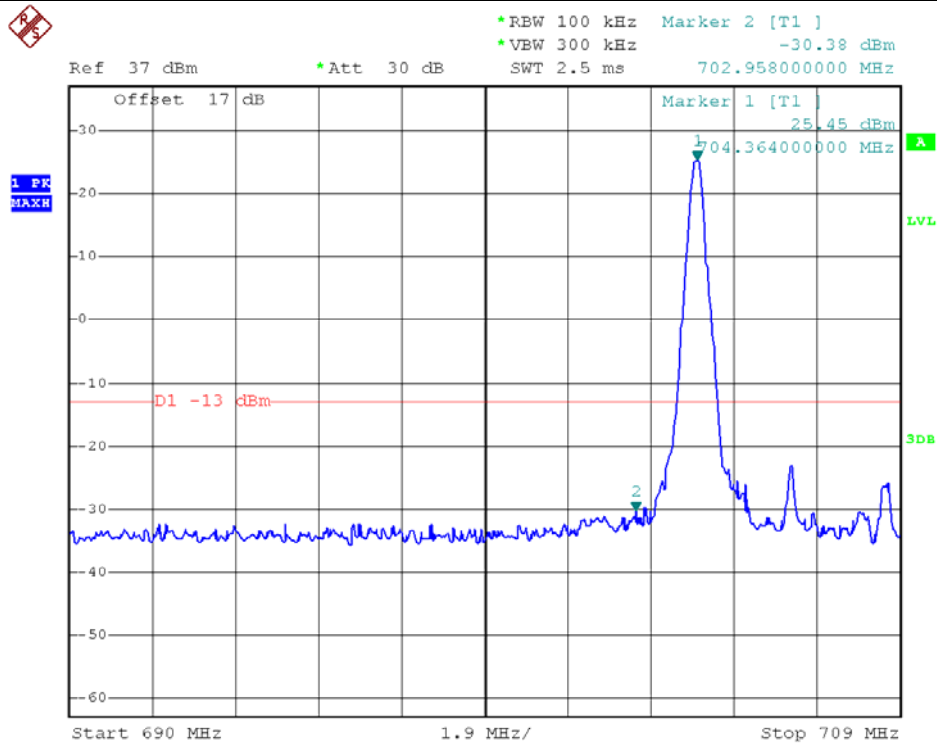
Higher Band Edge Plot for QPSK -RB Size 1, RB Offset 74



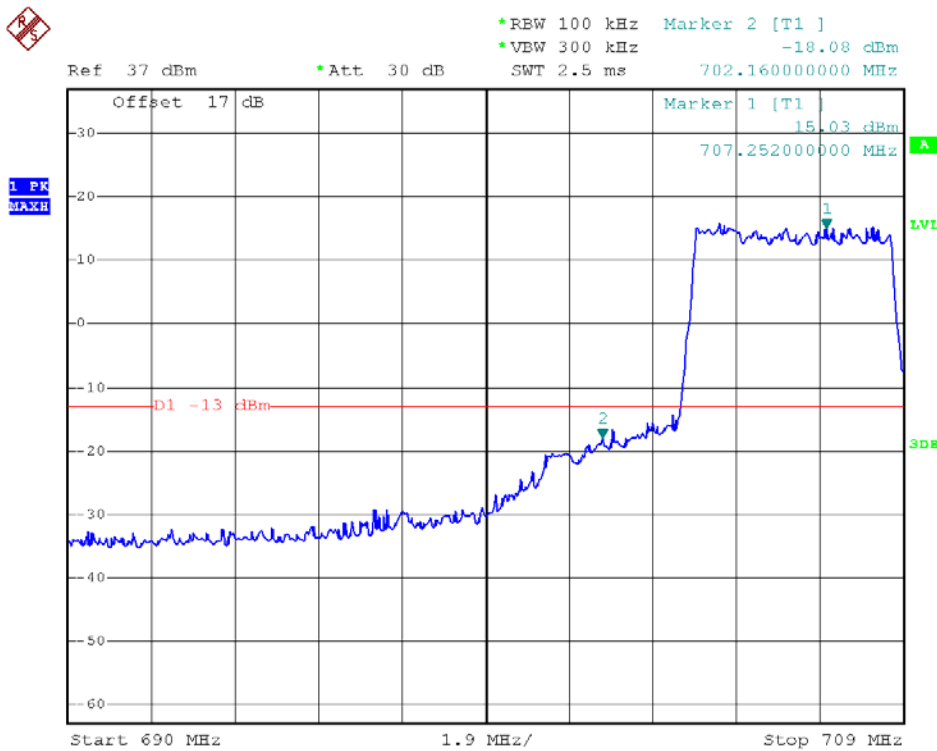
Higher Band Edge Plot for QPSK -RB Size 75, RB Offset 0



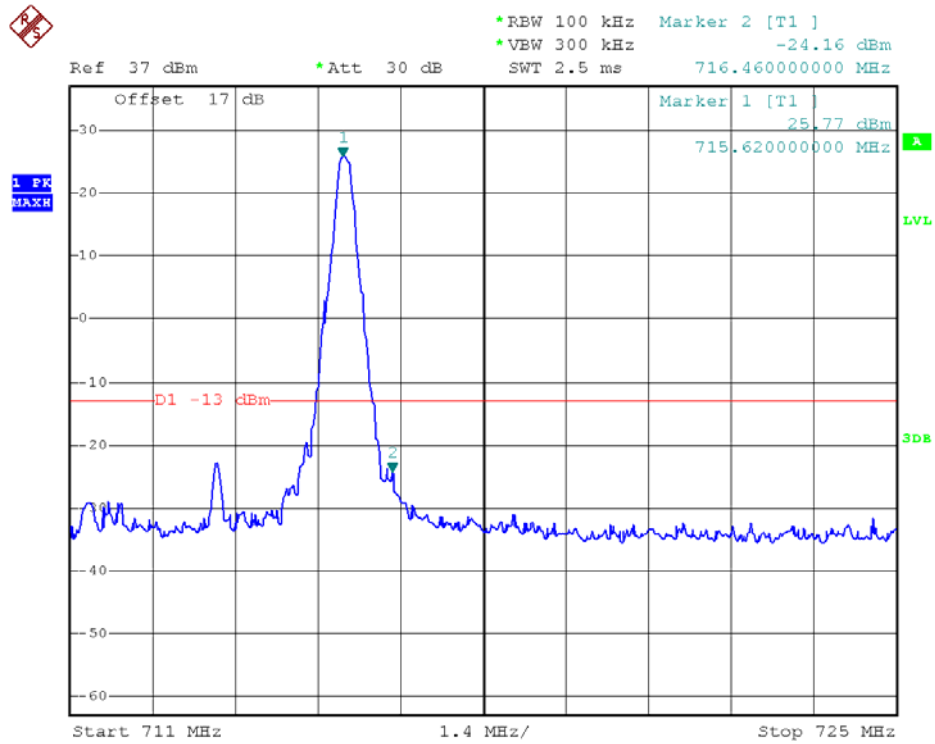
Band	LTE Band 17	Modulation	16QAM
Bandwidth	5MHz		



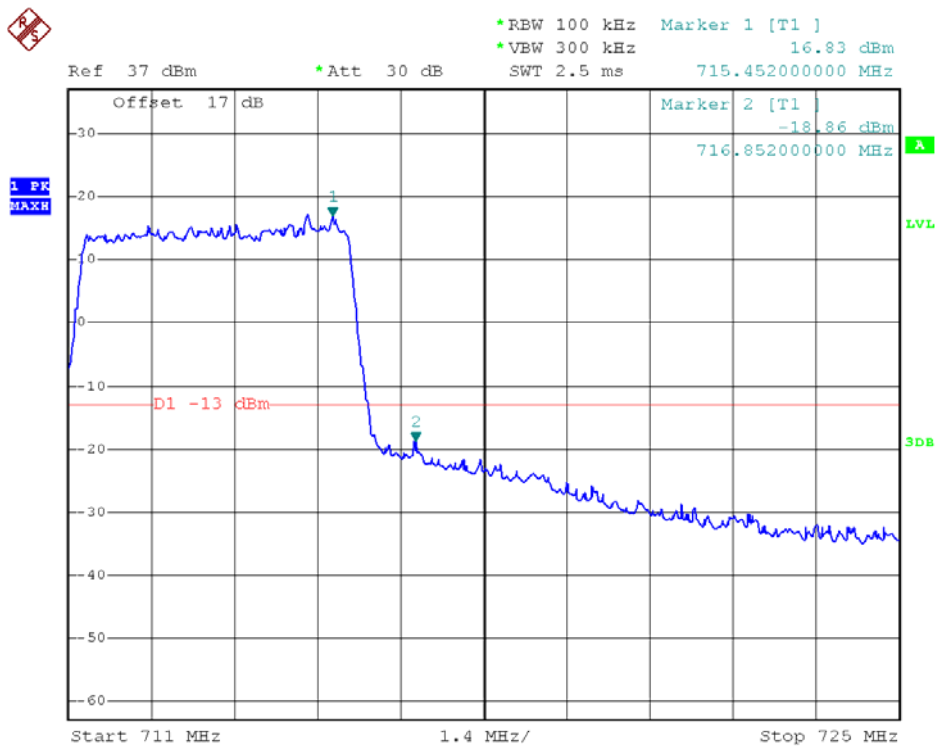
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 75, RB Offset 0

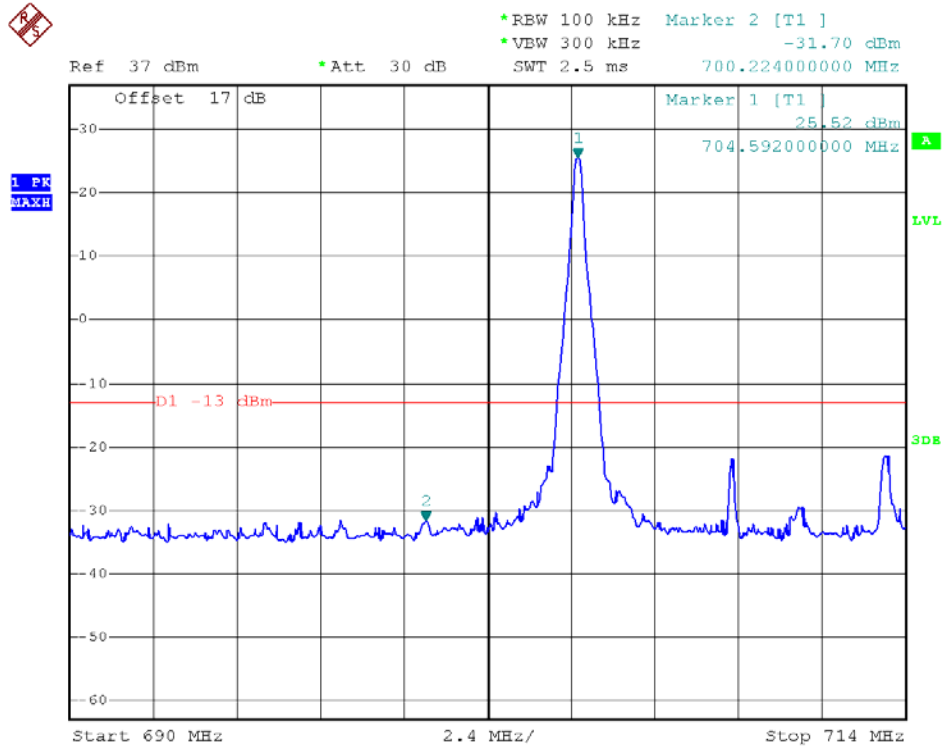


Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 74

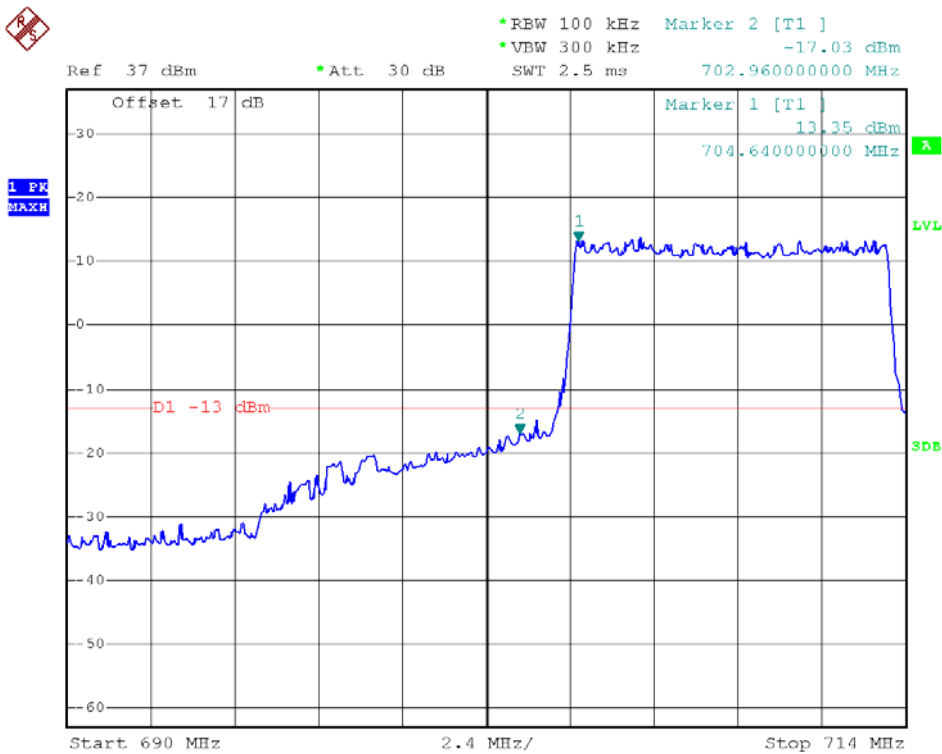


Higher Band Edge Plot for 16QAM -RB Size 75, RB Offset 0

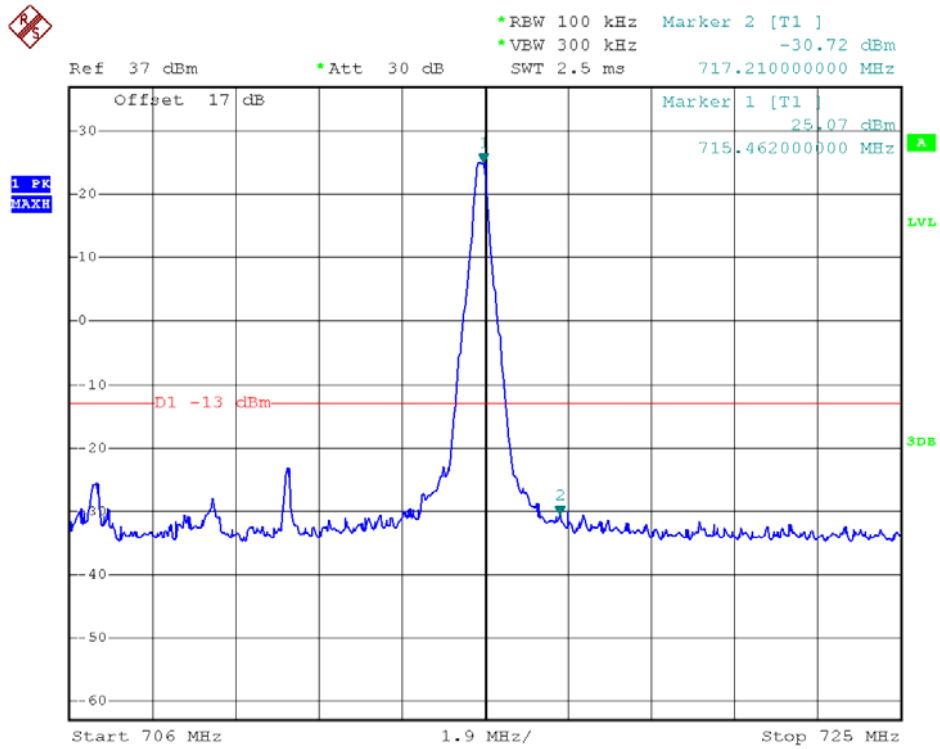
Band	LTE Band 17	Modulation	QPSK
Bandwidth	10MHz		



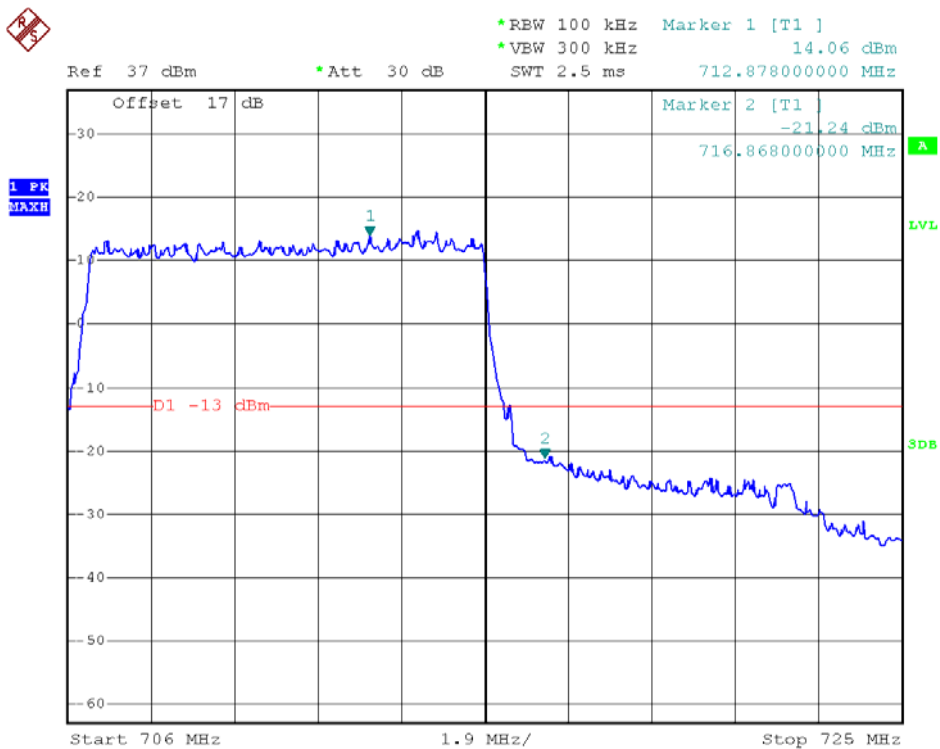
Lower Band Edge Plot for QPSK-RB Size 1, RB Offset 0



Lower Band Edge Plot for QPSK -RB Size 100, RB Offset 0



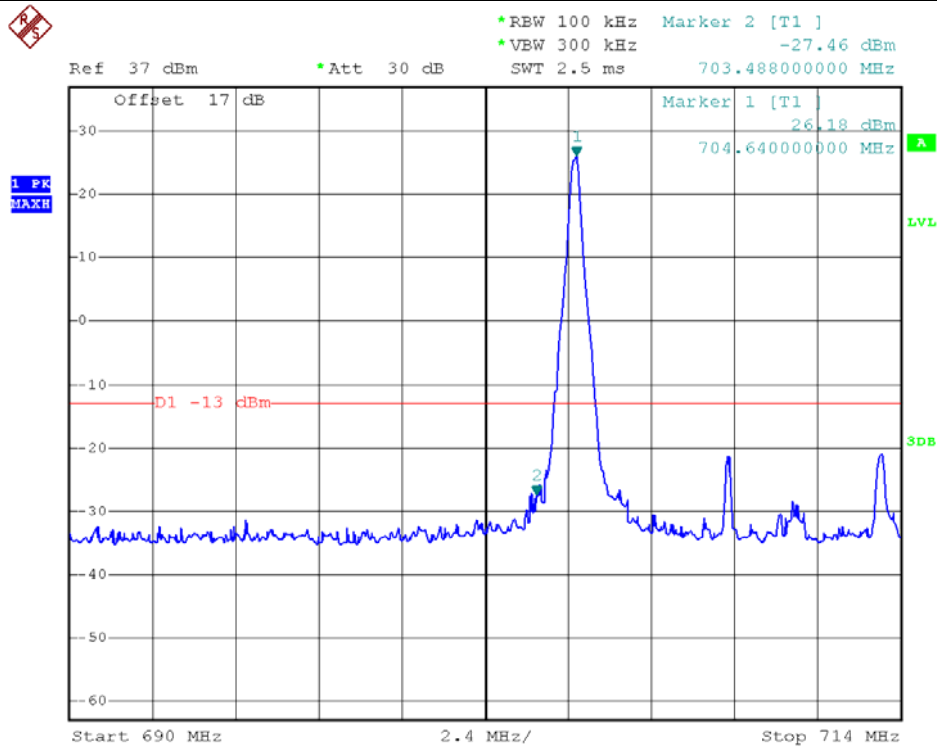
Higher Band Edge Plot for QPSK -RB Size 1, RB Offset 99



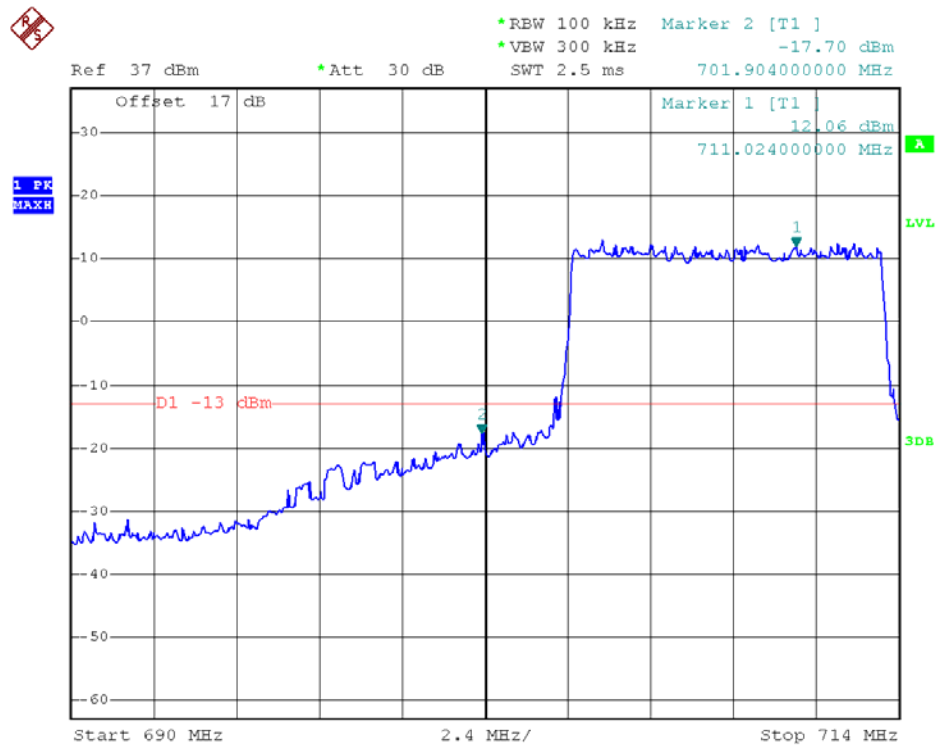
Higher Band Edge Plot for QPSK -RB Size 100, RB Offset 0



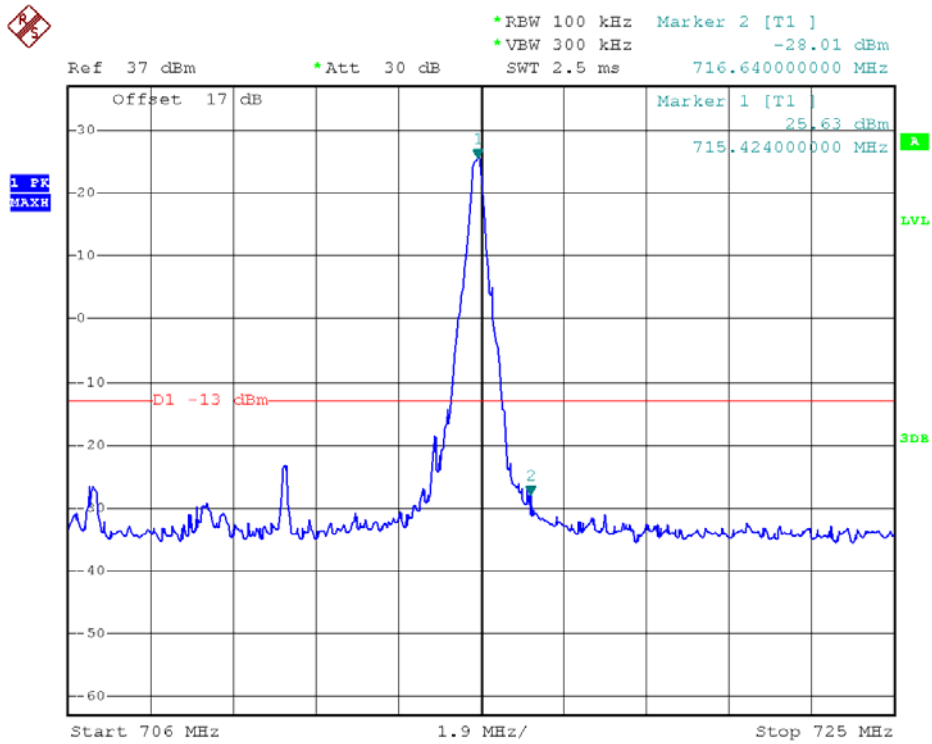
Band	LTE Band 17	Modulation	16QAM
Bandwidth	10MHz		



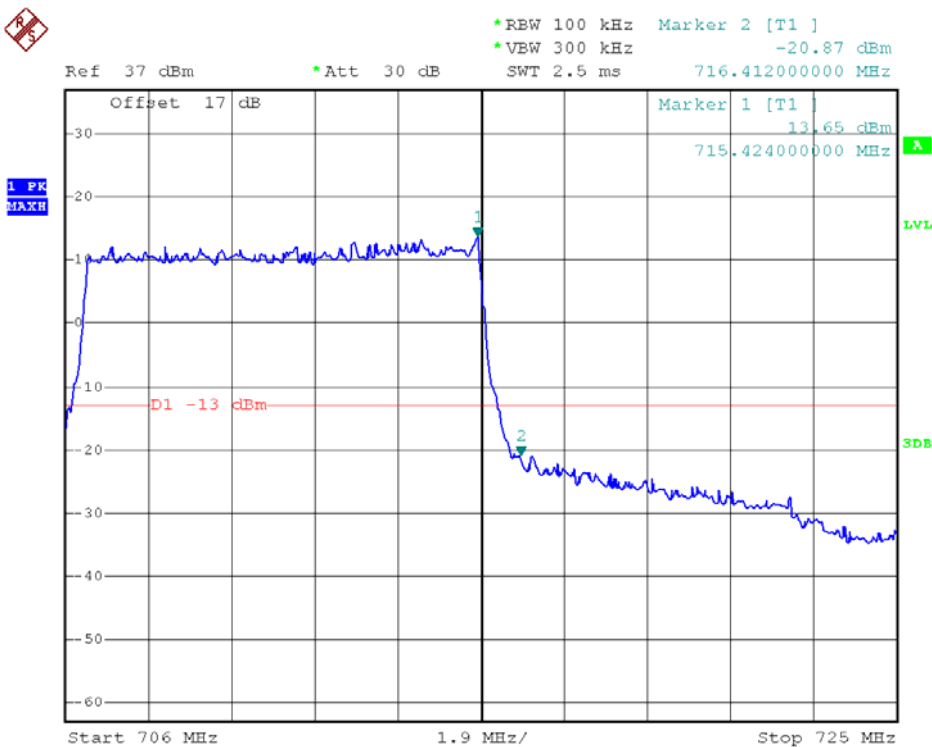
Lower Band Edge Plot for 16QAM-RB Size 1, RB Offset 0



Lower Band Edge Plot for 16QAM -RB Size 100, RB Offset 0



Higher Band Edge Plot for 16QAM -RB Size 1, RB Offset 99



Higher Band Edge Plot for 16QAM -RB Size 100, RB Offset 0

2.7 Transmitter Radiated Power (EIRP/ERP)

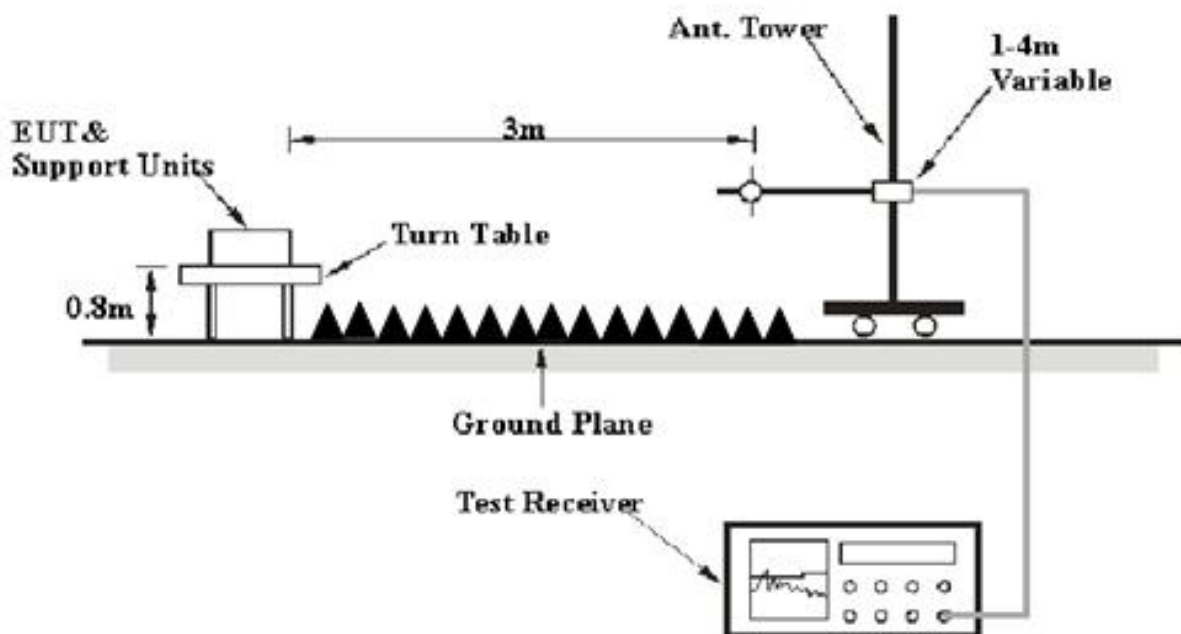
2.7.1 Requirement

Equivalent isotropic radiated power output measurements by substitution method according to ANSI /TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02.

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup



2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal bandwidth per section 4.0 of KDB 971168 D01v02r02.



4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

**2.7.5 Test Result of ERP/EIRP**

1. LTE Band 2 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
2	1.4	QPSK	1	2	1710.7	17.39	H	PASS
2	1.4	QPSK	1	5	1732.5	17.41	H	PASS
2	1.4	QPSK	3	2	1754.3	17.34	H	PASS
2	1.4	QPSK	1	2	1710.7	16.91	V	PASS
2	1.4	QPSK	1	5	1732.5	16.88	V	PASS
2	1.4	QPSK	3	2	1754.3	16.85	V	PASS
2	1.4	16QAM	1	0	1710.7	16.31	H	PASS
2	1.4	16QAM	1	2	1732.5	16.35	H	PASS
2	1.4	16QAM	3	2	1754.3	16.36	H	PASS
2	1.4	16QAM	1	0	1710.7	15.82	V	PASS
2	1.4	16QAM	1	2	1732.5	15.81	V	PASS
2	1.4	16QAM	3	2	1754.3	15.85	V	PASS
2	3	QPSK	1	7	1711.5	17.39	H	PASS
2	3	QPSK	1	14	1732.5	17.45	H	PASS
2	3	QPSK	1	0	1753.5	17.35	H	PASS
2	3	QPSK	1	7	1711.5	16.82	V	PASS
2	3	QPSK	1	14	1732.5	16.88	V	PASS
2	3	QPSK	1	0	1753.5	16.85	V	PASS
2	3	16QAM	1	14	1711.5	16.39	H	PASS
2	3	16QAM	1	0	1732.5	16.38	H	PASS
2	3	16QAM	1	0	1753.5	16.32	H	PASS
2	3	16QAM	1	14	1711.5	15.87	V	PASS
2	3	16QAM	1	0	1732.5	15.95	V	PASS
2	3	16QAM	1	0	1753.5	15.86	V	PASS
2	5	QPSK	1	0	1712.5	17.37	H	PASS
2	5	QPSK	1	0	1732.5	17.38	H	PASS
2	5	QPSK	1	24	1752.5	17.43	H	PASS
2	5	QPSK	1	0	1712.5	16.82	V	PASS
2	5	QPSK	1	0	1732.5	16.86	V	PASS
2	5	QPSK	1	24	1752.5	16.85	V	PASS
2	5	16QAM	1	12	1712.5	16.31	H	PASS
2	5	16QAM	1	0	1732.5	16.33	H	PASS
2	5	16QAM	1	12	1752.5	16.34	H	PASS
2	5	16QAM	1	12	1712.5	15.85	V	PASS
2	5	16QAM	1	0	1732.5	15.91	V	PASS
2	5	16QAM	1	12	1752.5	15.86	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
2	10	QPSK	1	0	1715	17.38	H	PASS
2	10	QPSK	1	0	1732.5	17.34	H	PASS
2	10	QPSK	1	49	1750	17.37	H	PASS
2	10	QPSK	1	0	1715	16.75	V	PASS
2	10	QPSK	1	0	1732.5	16.81	V	PASS
2	10	QPSK	1	49	1750	16.76	V	PASS
2	10	16QAM	1	0	1715	16.31	H	PASS
2	10	16QAM	1	0	1732.5	16.32	H	PASS
2	10	16QAM	1	24	1750	16.37	H	PASS
2	10	16QAM	1	0	1715	15.76	V	PASS
2	10	16QAM	1	0	1732.5	15.80	V	PASS
2	10	16QAM	1	24	1750	15.81	V	PASS
2	15	QPSK	1	0	1717.5	17.42	H	PASS
2	15	QPSK	1	0	1732.5	17.39	H	PASS
2	15	QPSK	1	74	1747.5	17.35	H	PASS
2	15	QPSK	1	0	1717.5	16.62	V	PASS
2	15	QPSK	1	0	1732.5	16.65	V	PASS
2	15	QPSK	1	74	1747.5	16.61	V	PASS
2	15	16QAM	1	0	1717.5	16.25	H	PASS
2	15	16QAM	1	0	1732.5	16.28	H	PASS
2	15	16QAM	1	74	1747.5	16.29	H	PASS
2	15	16QAM	1	0	1717.5	15.81	V	PASS
2	15	16QAM	1	0	1732.5	15.85	V	PASS
2	15	16QAM	1	74	1747.5	15.84	V	PASS
2	20	QPSK	1	0	1720	17.41	H	PASS
2	20	QPSK	1	0	1732.5	17.47	H	PASS
2	20	QPSK	1	0	1745	17.48	H	PASS
2	20	QPSK	1	0	1720	16.68	V	PASS
2	20	QPSK	1	0	1732.5	16.75	V	PASS
2	20	QPSK	1	0	1745	16.72	V	PASS
2	20	16QAM	1	0	1720	16.38	H	PASS
2	20	16QAM	1	0	1732.5	16.41	H	PASS
2	20	16QAM	1	49	1745	16.45	H	PASS
2	20	16QAM	1	0	1720	15.81	V	PASS
2	20	16QAM	1	0	1732.5	15.86	V	PASS
2	20	16QAM	1	49	1745	15.74	V	PASS



2. LTE Band 4 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
4	1.4	QPSK	3	0	1710.7	18.38	H	PASS
4	1.4	QPSK	3	2	1732.5	18.40	H	PASS
4	1.4	QPSK	1	2	1754.3	18.41	H	PASS
4	1.4	QPSK	3	0	1710.7	17.86	V	PASS
4	1.4	QPSK	3	2	1732.5	17.84	V	PASS
4	1.4	QPSK	1	2	1754.3	17.87	V	PASS
4	1.4	16QAM	3	2	1710.7	17.30	H	PASS
4	1.4	16QAM	3	2	1732.5	17.32	H	PASS
4	1.4	16QAM	3	2	1754.3	17.29	H	PASS
4	1.4	16QAM	3	2	1710.7	16.87	V	PASS
4	1.4	16QAM	3	2	1732.5	16.84	V	PASS
4	1.4	16QAM	3	2	1754.3	16.82	V	PASS
4	3	QPSK	1	0	1711.5	18.45	H	PASS
4	3	QPSK	1	0	1732.5	18.39	H	PASS
4	3	QPSK	1	7	1753.5	18.42	H	PASS
4	3	QPSK	1	0	1711.5	17.85	V	PASS
4	3	QPSK	1	0	1732.5	17.89	V	PASS
4	3	QPSK	1	7	1753.5	17.78	V	PASS
4	3	16QAM	1	14	1711.5	17.32	H	PASS
4	3	16QAM	1	14	1732.5	17.34	H	PASS
4	3	16QAM	1	14	1753.5	17.35	H	PASS
4	3	16QAM	1	14	1711.5	16.85	V	PASS
4	3	16QAM	1	14	1732.5	16.92	V	PASS
4	3	16QAM	1	14	1753.5	16.87	V	PASS
4	5	QPSK	1	12	1712.5	18.38	H	PASS
4	5	QPSK	1	24	1732.5	18.40	H	PASS
4	5	QPSK	1	24	1752.5	18.39	H	PASS
4	5	QPSK	1	12	1712.5	17.82	V	PASS
4	5	QPSK	1	24	1732.5	17.77	V	PASS
4	5	QPSK	1	24	1752.5	17.75	V	PASS
4	5	16QAM	1	24	1712.5	17.35	H	PASS
4	5	16QAM	1	0	1732.5	17.31	H	PASS
4	5	16QAM	1	0	1752.5	17.39	H	PASS
4	5	16QAM	1	24	1712.5	16.82	V	PASS
4	5	16QAM	1	0	1732.5	16.85	V	PASS
4	5	16QAM	1	0	1752.5	16.91	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	H/V	Verdict
			RB Size	RB Offset				
4	10	QPSK	1	24	1715	18.36	H	PASS
4	10	QPSK	1	0	1732.5	18.37	H	PASS
4	10	QPSK	1	24	1750	18.35	H	PASS
4	10	QPSK	1	24	1715	17.79	V	PASS
4	10	QPSK	1	0	1732.5	17.77	V	PASS
4	10	QPSK	1	24	1750	17.72	V	PASS
4	10	16QAM	1	24	1715	17.32	H	PASS
4	10	16QAM	1	0	1732.5	17.35	H	PASS
4	10	16QAM	1	24	1750	17.33	H	PASS
4	10	16QAM	1	24	1715	16.82	V	PASS
4	10	16QAM	1	0	1732.5	16.87	V	PASS
4	10	16QAM	1	24	1750	16.88	V	PASS
4	15	QPSK	1	74	1717.5	18.34	H	PASS
4	15	QPSK	1	74	1732.5	18.35	H	PASS
4	15	QPSK	1	0	1747.5	18.30	H	PASS
4	15	QPSK	1	74	1717.5	17.83	V	PASS
4	15	QPSK	1	74	1732.5	17.78	V	PASS
4	15	QPSK	1	0	1747.5	17.79	V	PASS
4	15	16QAM	1	74	1717.5	17.32	H	PASS
4	15	16QAM	1	0	1732.5	17.27	H	PASS
4	15	16QAM	1	0	1747.5	17.33	H	PASS
4	15	16QAM	1	74	1717.5	16.86	V	PASS
4	15	16QAM	1	0	1732.5	16.81	V	PASS
4	15	16QAM	1	0	1747.5	16.85	V	PASS
4	20	QPSK	1	0	1720	18.43	H	PASS
4	20	QPSK	1	0	1732.5	18.47	H	PASS
4	20	QPSK	1	0	1745	18.42	H	PASS
4	20	QPSK	1	0	1720	17.81	V	PASS
4	20	QPSK	1	0	1732.5	17.84	V	PASS
4	20	QPSK	1	0	1745	17.88	V	PASS
4	20	16QAM	1	0	1720	17.39	H	PASS
4	20	16QAM	1	0	1732.5	17.36	H	PASS
4	20	16QAM	1	0	1745	17.44	H	PASS
4	20	16QAM	1	0	1720	16.83	V	PASS
4	20	16QAM	1	0	1732.5	16.76	V	PASS
4	20	16QAM	1	0	1745	16.84	V	PASS



3. LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
			RB Size	RB Offset				
7	5	QPSK	1	12	2502.5	17.35	H	PASS
7	5	QPSK	1	0	2535	17.30	H	PASS
7	5	QPSK	1	24	2567.5	17.34	H	PASS
7	5	QPSK	1	12	2502.5	16.76	V	PASS
7	5	QPSK	1	0	2535	16.80	V	PASS
7	5	QPSK	1	24	2567.5	16.76	V	PASS
7	5	16QAM	1	24	2502.5	16.35	H	PASS
7	5	16QAM	1	24	2535	16.31	H	PASS
7	5	16QAM	1	0	2567.5	16.37	H	PASS
7	5	16QAM	1	24	2502.5	15.72	V	PASS
7	5	16QAM	1	24	2535	15.75	V	PASS
7	5	16QAM	1	0	2567.5	15.70	V	PASS
7	10	QPSK	1	24	2505	17.39	H	PASS
7	10	QPSK	1	49	2535	17.34	H	PASS
7	10	QPSK	1	24	2565	17.36	H	PASS
7	10	QPSK	1	24	2505	16.73	V	PASS
7	10	QPSK	1	49	2535	16.82	V	PASS
7	10	QPSK	1	24	2565	16.75	V	PASS
7	10	16QAM	1	24	2505	16.39	H	PASS
7	10	16QAM	1	49	2535	16.41	H	PASS
7	10	16QAM	1	24	2565	16.43	H	PASS
7	10	16QAM	1	24	2505	15.82	V	PASS
7	10	16QAM	1	49	2535	15.75	V	PASS
7	10	16QAM	1	24	2565	15.83	V	PASS
7	15	QPSK	1	37	2507.5	17.37	H	PASS
7	15	QPSK	1	74	2535	17.34	H	PASS
7	15	QPSK	1	0	2562.5	17.33	H	PASS
7	15	QPSK	1	37	2507.5	16.83	V	PASS
7	15	QPSK	1	74	2535	16.75	V	PASS
7	15	QPSK	1	0	2562.5	16.79	V	PASS
7	15	16QAM	1	37	2507.5	16.34	H	PASS
7	15	16QAM	1	18	2535	16.32	H	PASS
7	15	16QAM	1	0	2562.5	16.38	H	PASS
7	15	16QAM	1	37	2507.5	15.76	V	PASS
7	15	16QAM	1	18	2535	15.81	V	PASS
7	15	16QAM	1	0	2562.5	15.79	V	PASS



LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
7	20	QPSK	1	0	2510	17.42	H	PASS
7	20	QPSK	1	0	2535	17.39	H	PASS
7	20	QPSK	1	0	2560	17.46	H	PASS
7	20	QPSK	1	0	2510	16.79	V	PASS
7	20	QPSK	1	0	2535	16.80	V	PASS
7	20	QPSK	1	0	2560	16.84	V	PASS
7	20	16QAM	1	0	2510	16.38	H	PASS
7	20	16QAM	1	0	2535	16.44	H	PASS
7	20	16QAM	1	0	2560	16.42	H	PASS
7	20	16QAM	1	0	2510	15.75	V	PASS
7	20	16QAM	1	0	2535	15.82	V	PASS
7	20	16QAM	1	0	2560	15.74	V	PASS



4. LTE Band 17 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	H/V	Verdict
			RB Size	RB Offset				
17	5	QPSK	1	24	706.5	18.85	H	PASS
17	5	QPSK	1	24	710	18.87	H	PASS
17	5	QPSK	1	12	713.5	18.91	H	PASS
17	5	QPSK	1	24	706.5	18.26	V	PASS
17	5	QPSK	1	24	710	18.19	V	PASS
17	5	QPSK	1	12	713.5	18.27	V	PASS
17	5	16QAM	1	24	706.5	17.79	H	PASS
17	5	16QAM	1	24	710	17.82	H	PASS
17	5	16QAM	1	12	713.5	17.75	H	PASS
17	5	16QAM	1	24	706.5	17.17	V	PASS
17	5	16QAM	1	24	710	17.18	V	PASS
17	5	16QAM	1	12	713.5	17.22	V	PASS
17	10	QPSK	1	49	709	18.85	H	PASS
17	10	QPSK	1	49	710	18.88	H	PASS
17	10	QPSK	1	49	711	18.93	H	PASS
17	10	QPSK	1	49	709	18.31	V	PASS
17	10	QPSK	1	49	710	18.29	V	PASS
17	10	QPSK	1	49	711	18.27	V	PASS
17	10	16QAM	1	24	709	17.82	H	PASS
17	10	16QAM	1	49	710	17.86	H	PASS
17	10	16QAM	1	24	711	17.84	H	PASS
17	10	16QAM	1	24	709	17.27	V	PASS
17	10	16QAM	1	49	710	17.28	V	PASS
17	10	16QAM	1	24	711	17.25	V	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7

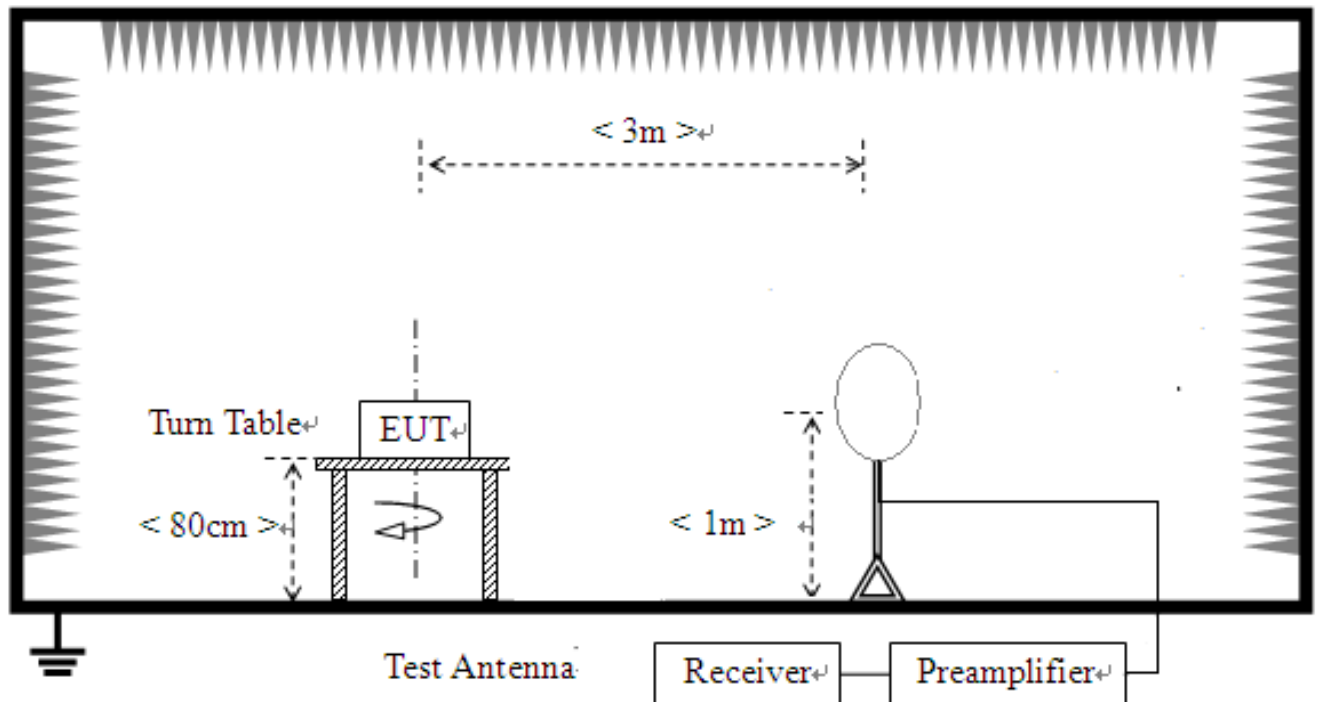
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.8.2 Measuring Instruments

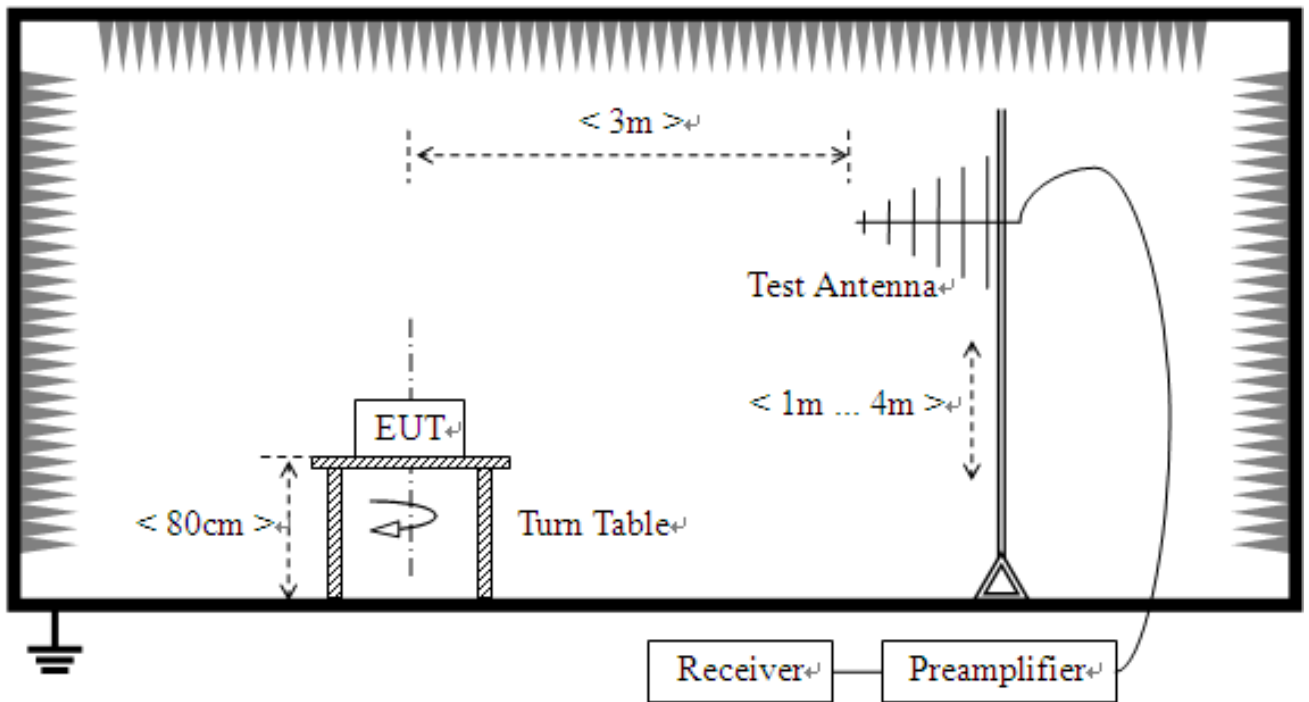
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

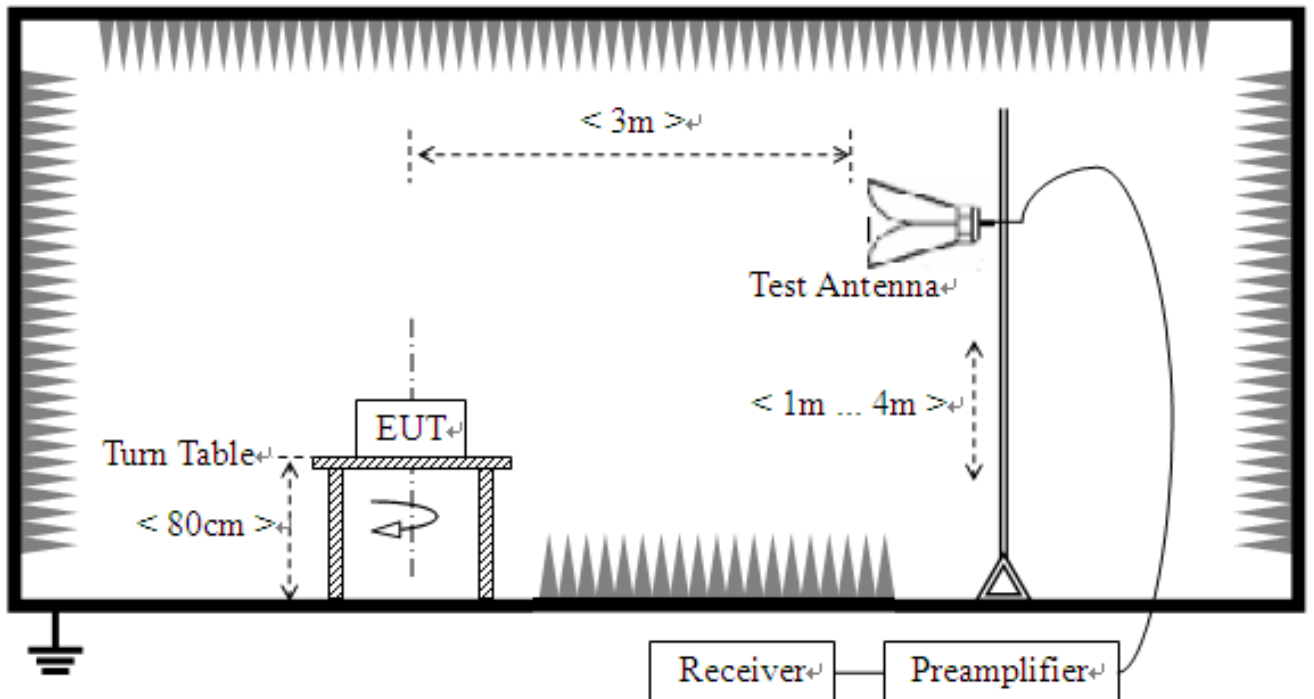
For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

$$\begin{aligned} & \text{The limit line is derived from } 43 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [43 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} \\ & = -13\text{dBm}. \end{aligned}$$

<For Band 7>

$$\begin{aligned} & \text{The limit line is derived from } 55 + 10\log(P)\text{dB below the transmitter power } P(\text{Watts}) \\ & = P(\text{W}) - [55 + 10\log(P)] \text{ (dB)} \\ & = [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)} \\ & = -25\text{dBm}. \end{aligned}$$

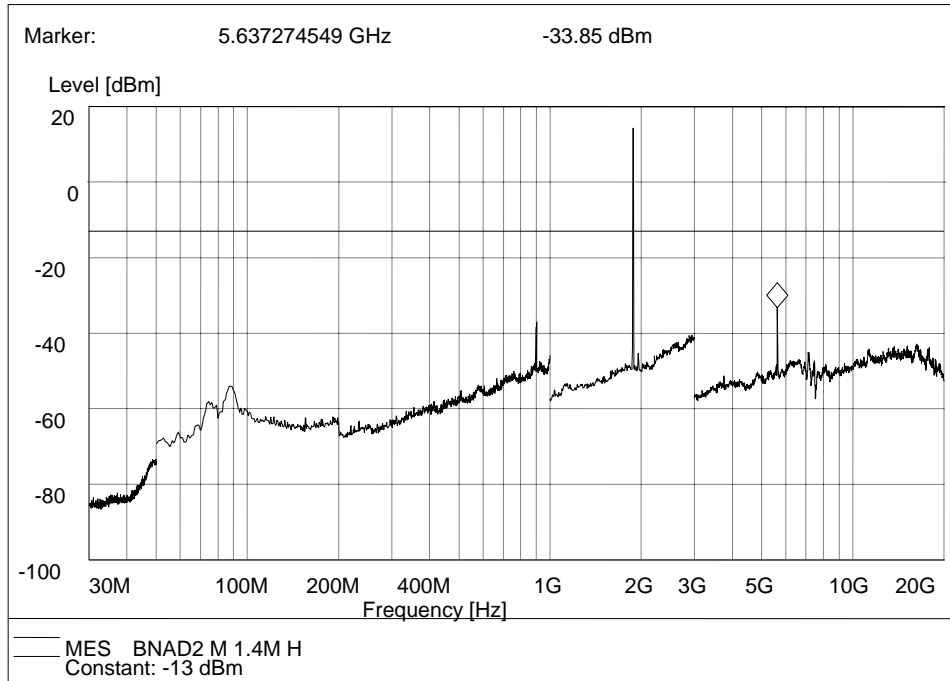
11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.



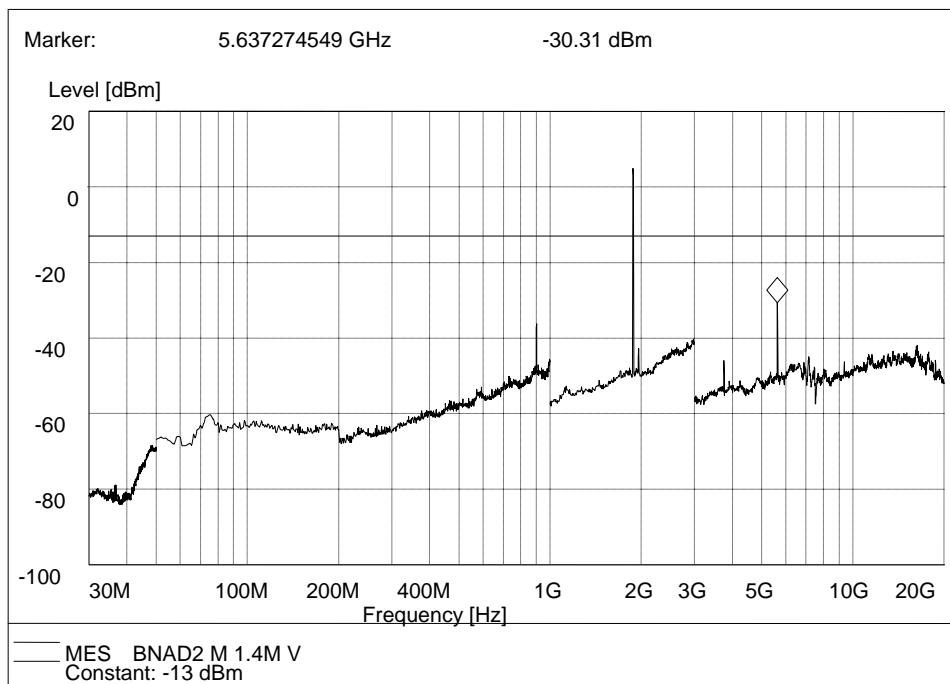
13. For 9KHz to 30MHz: the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
14. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1, RB Offset 0

2.8.5 Test Result (Plots) of Radiated Spurious Emission

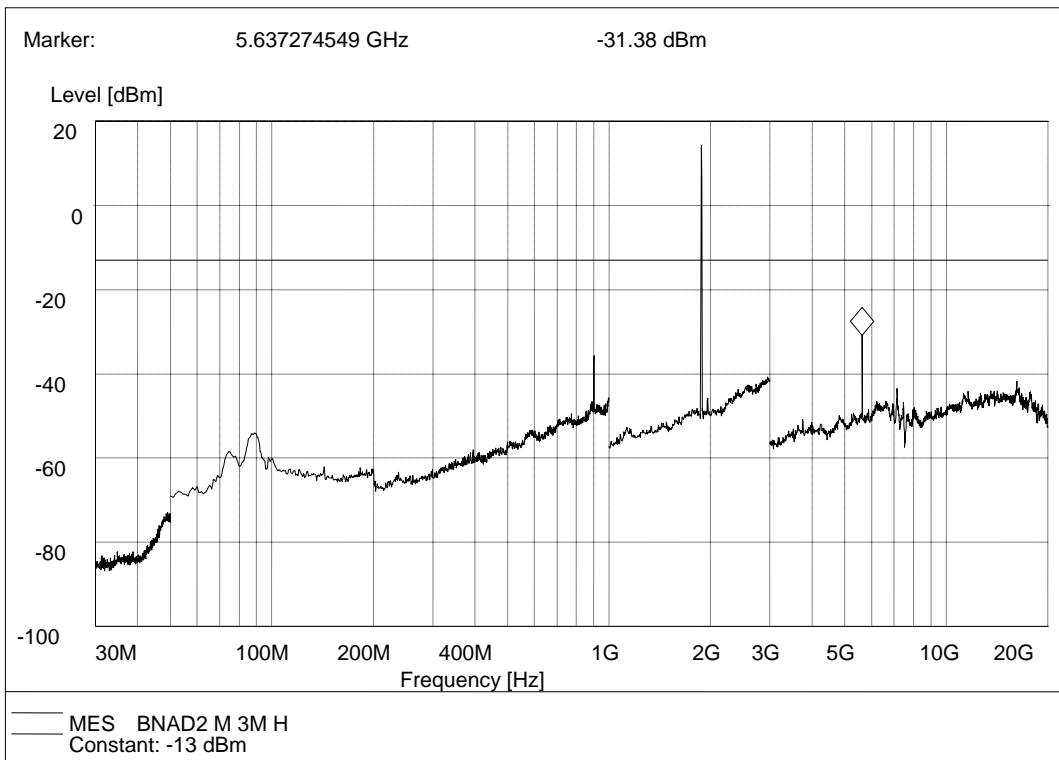
Note: For 9 KHz to 30MHz: the amplitude of spurious emissions is attenuated by more than 20dB below the permissible value, so we not provide the test result here.



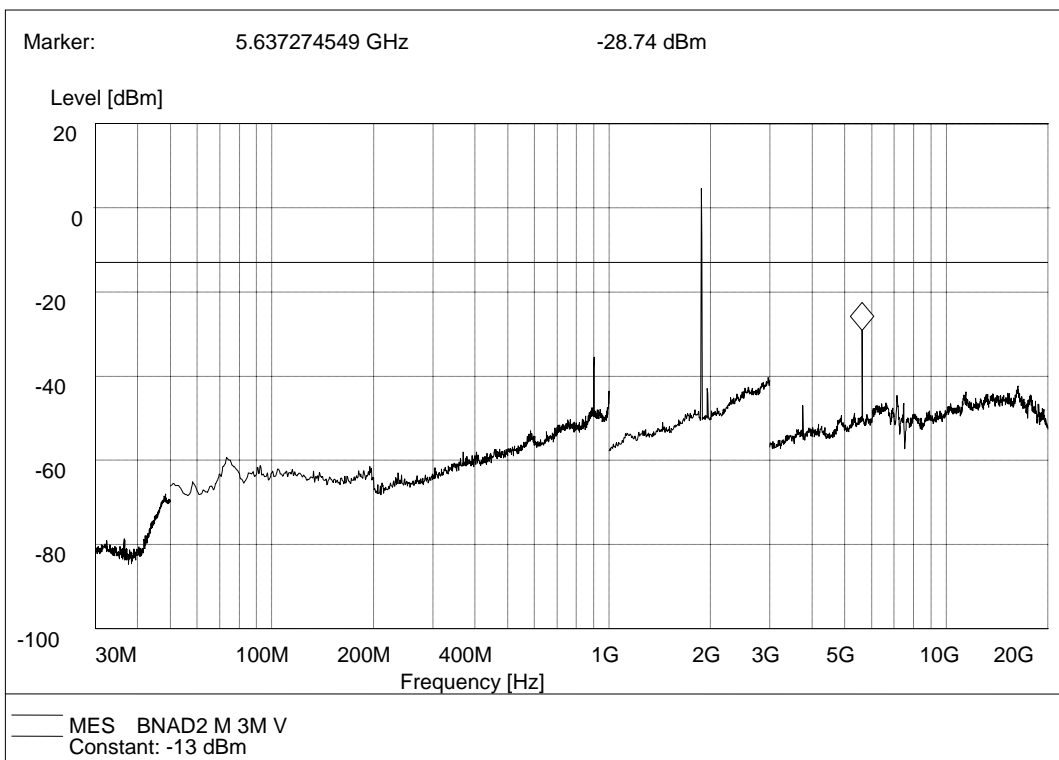
LTE Band 2 QPSK 1.4MHz BW Test Antenna Horizontal



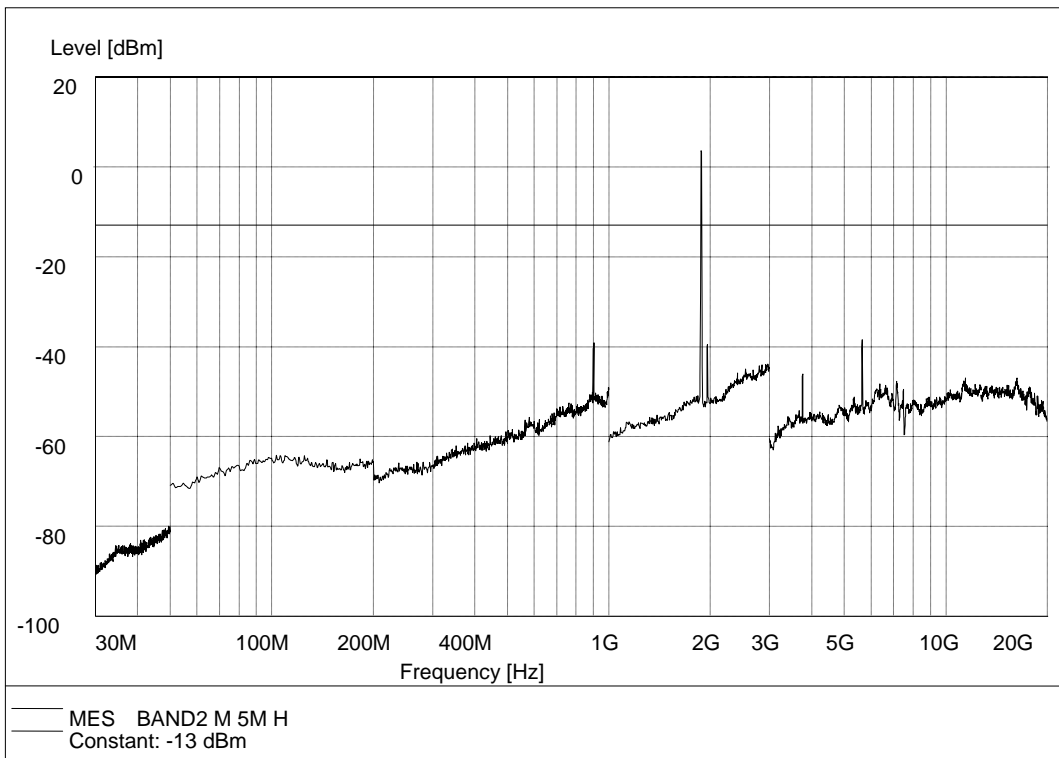
LTE Band 2 QPSK 1.4MHz BW Test Antenna Vertical



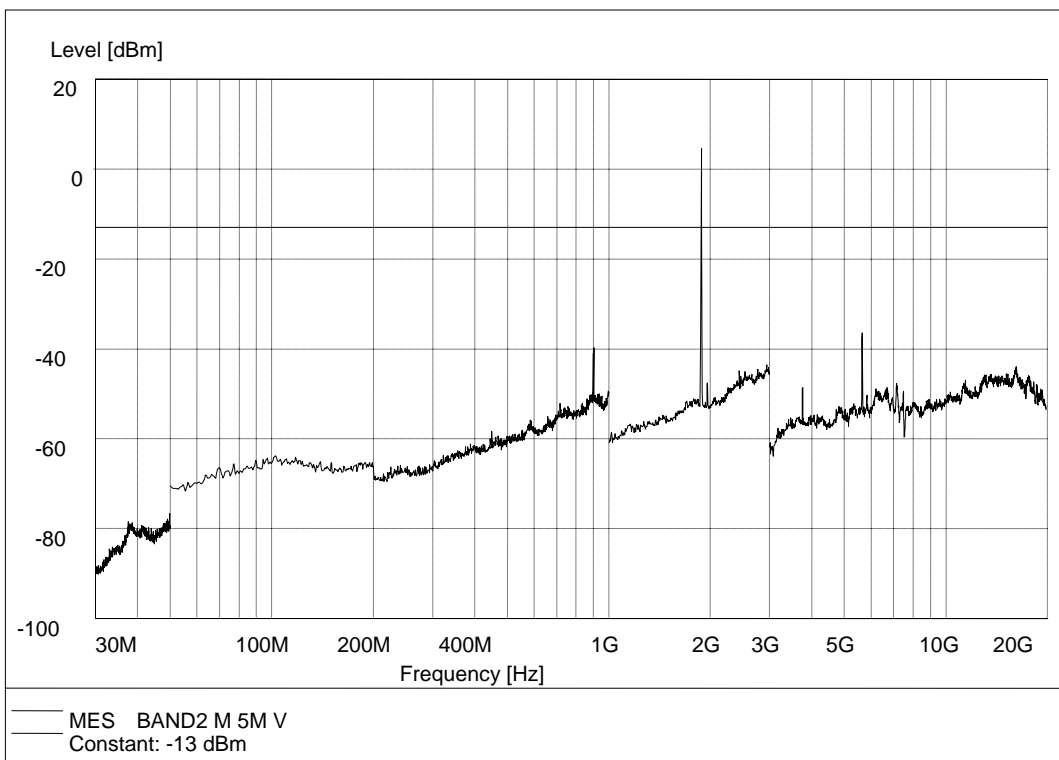
LTE Band 2 QPSK 3MHz BW Test Antenna Horizontal



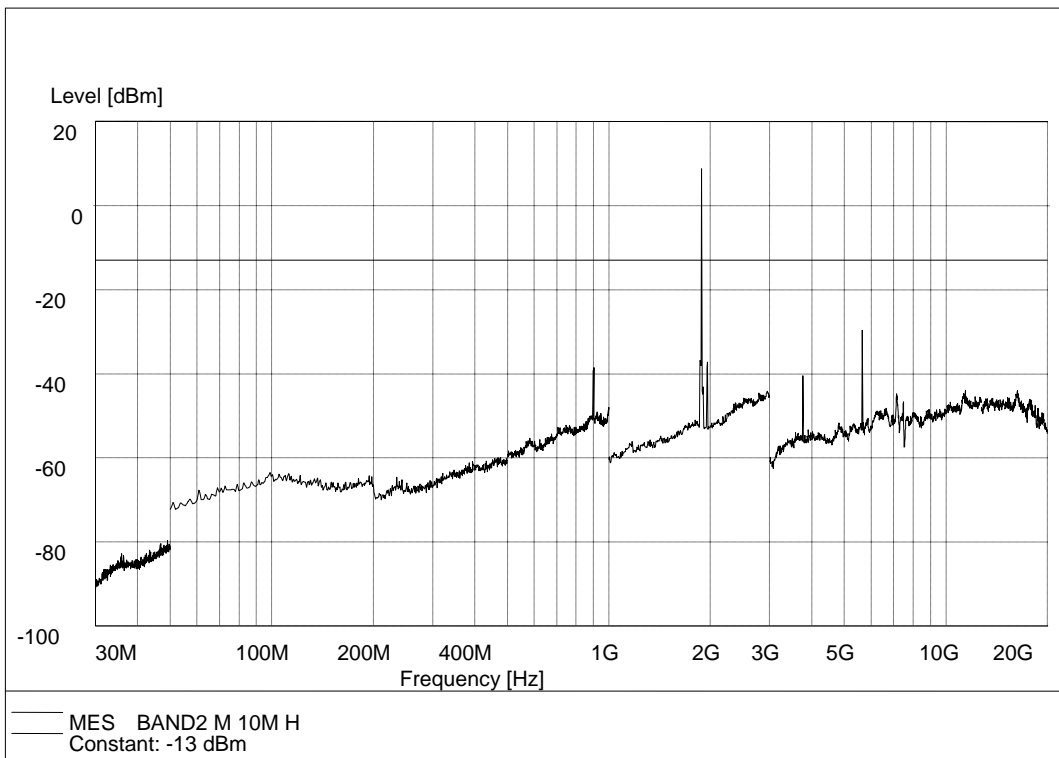
LTE Band 2 QPSK 3MHz BW Test Antenna Vertical



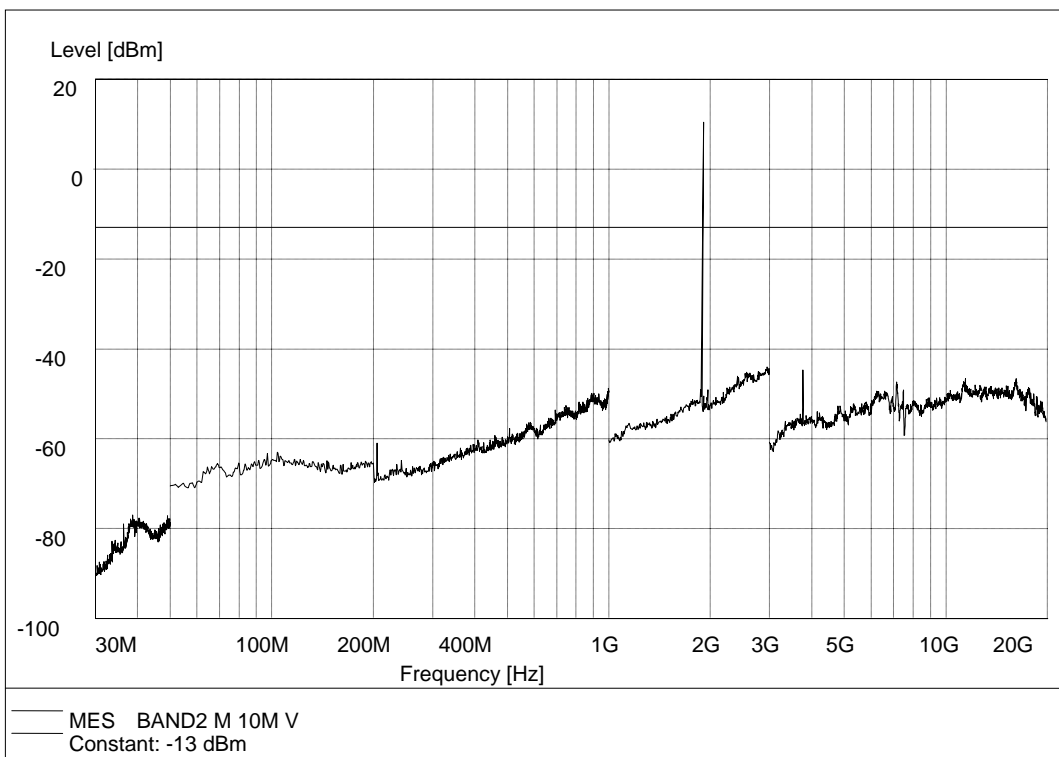
LTE Band 2 QPSK 5MHz BW Test Antenna Horizontal



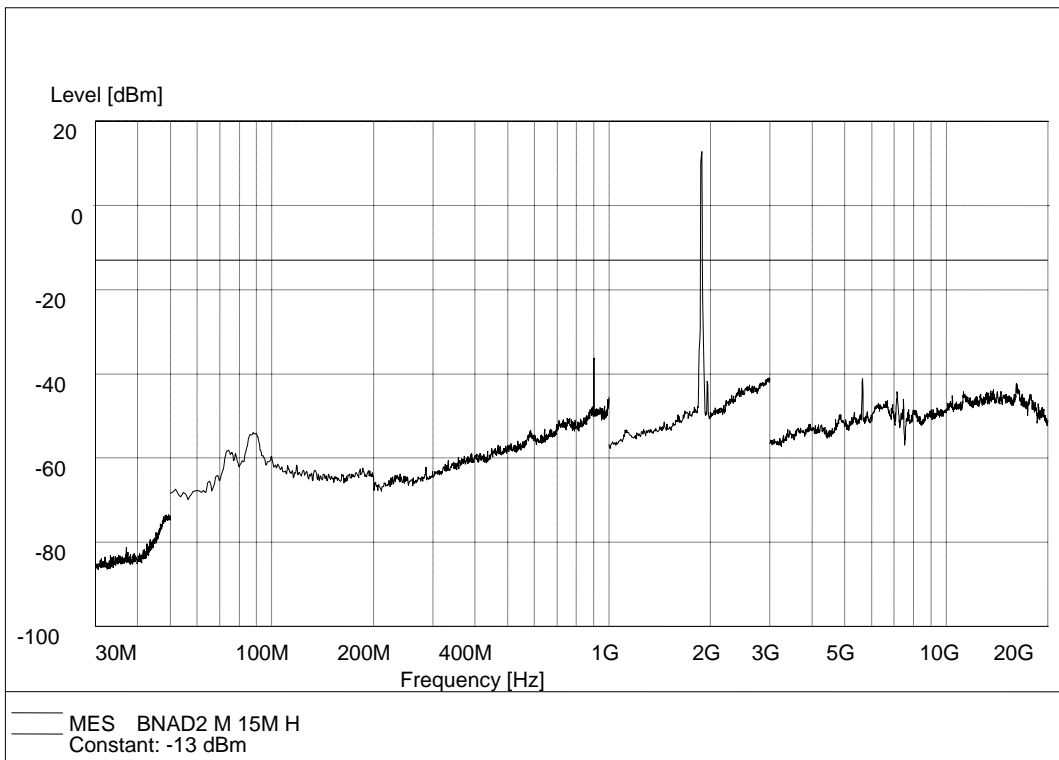
LTE Band 2 QPSK 5MHz BW Test Antenna Vertical



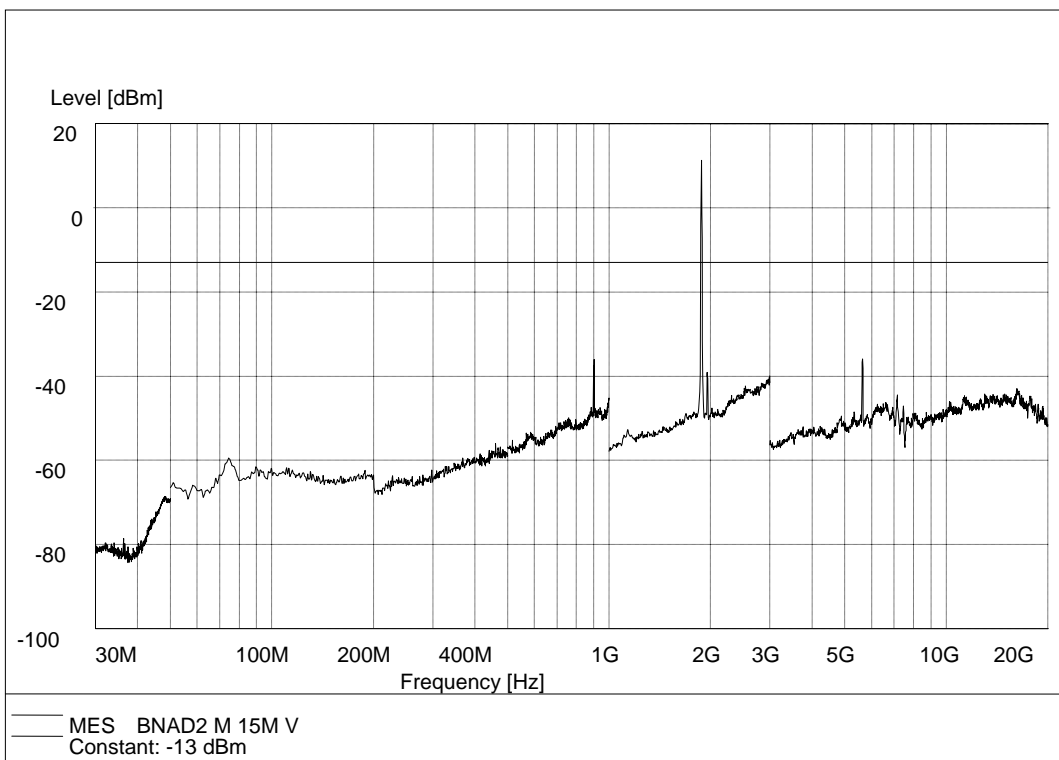
LTE Band 2 QPSK 10MHz BW Test Antenna Horizontal



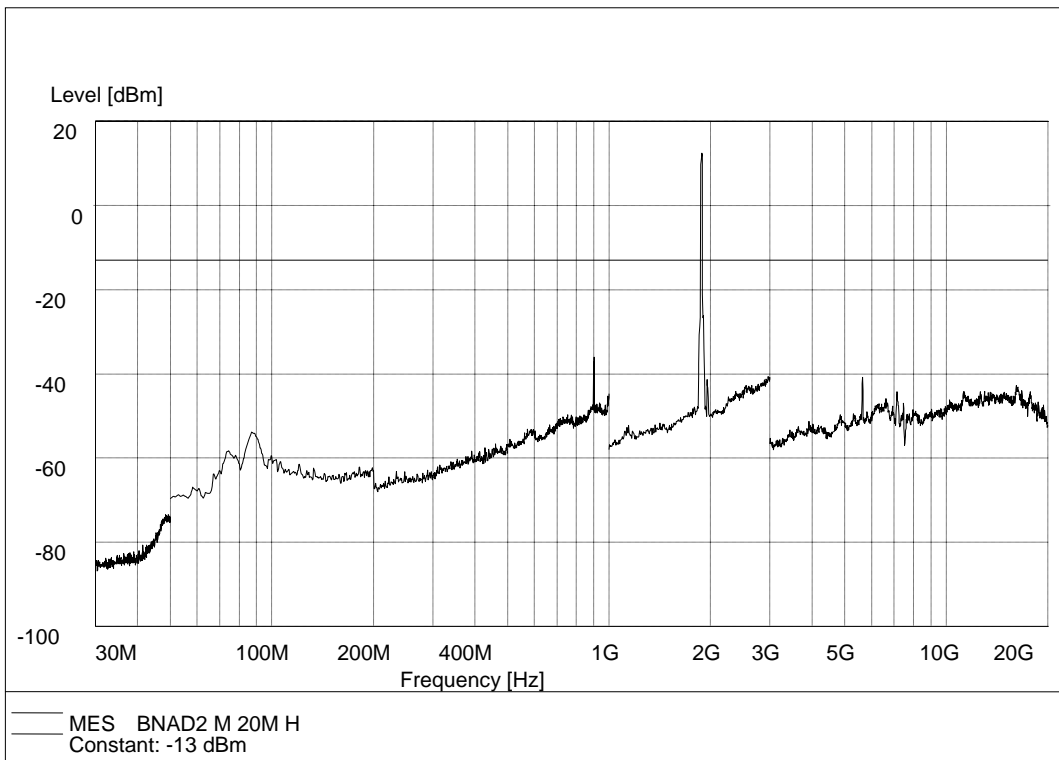
LTE Band 2 QPSK 10MHz BW Test Antenna Vertical



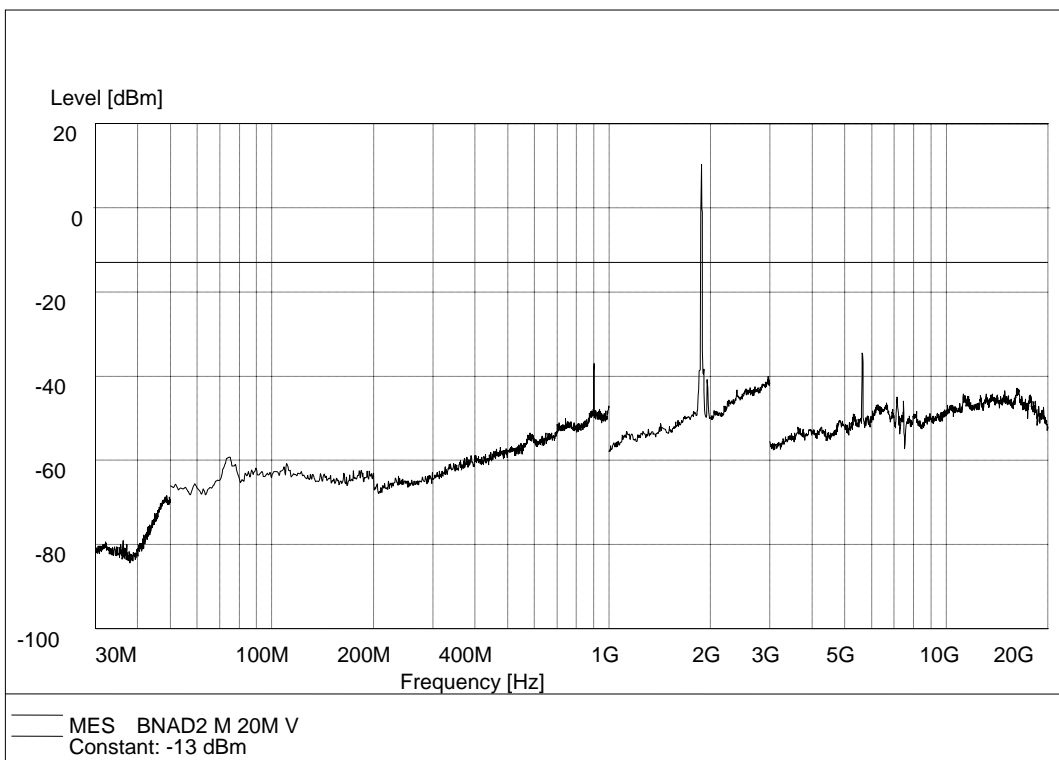
LTE Band 2 QPSK 15MHz BW Test Antenna Horizontal



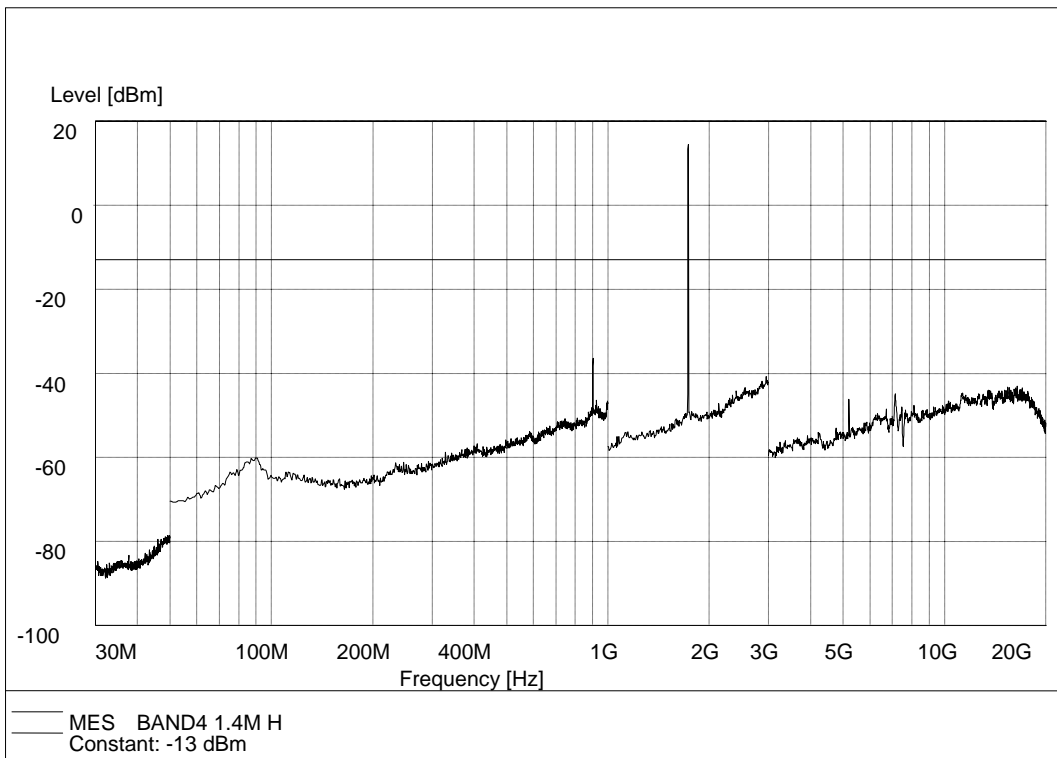
LTE Band 2 QPSK 15MHz BW Test Antenna Vertical



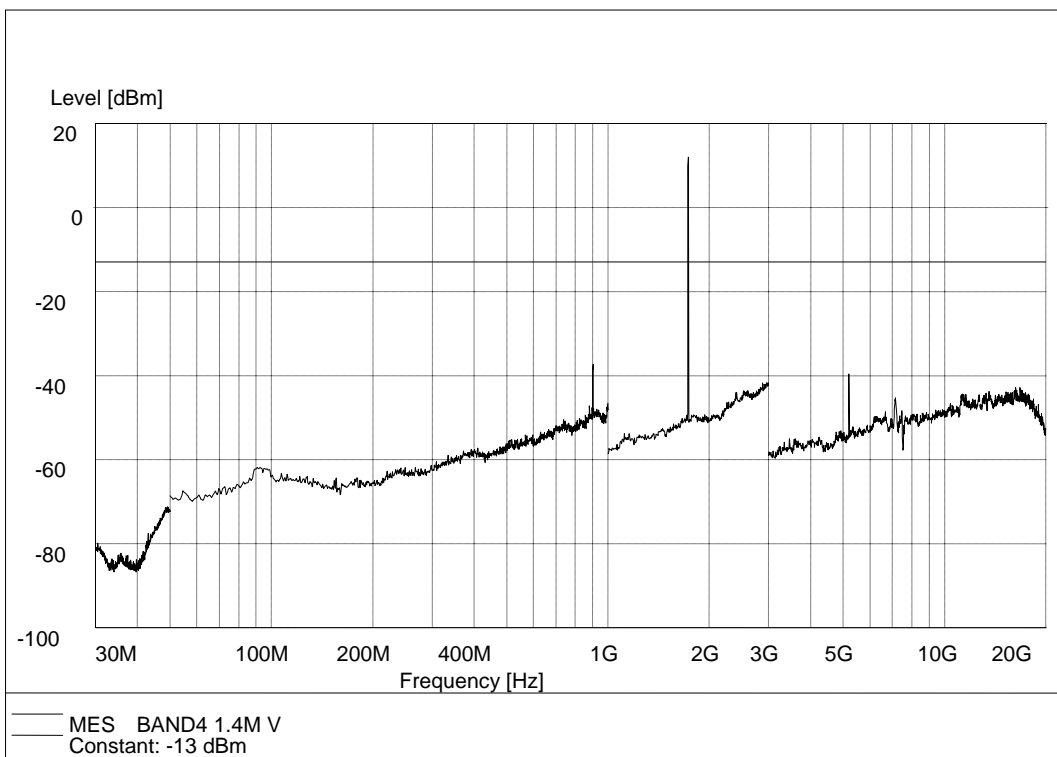
LTE Band 2 QPSK 20MHz BW Test Antenna Horizontal



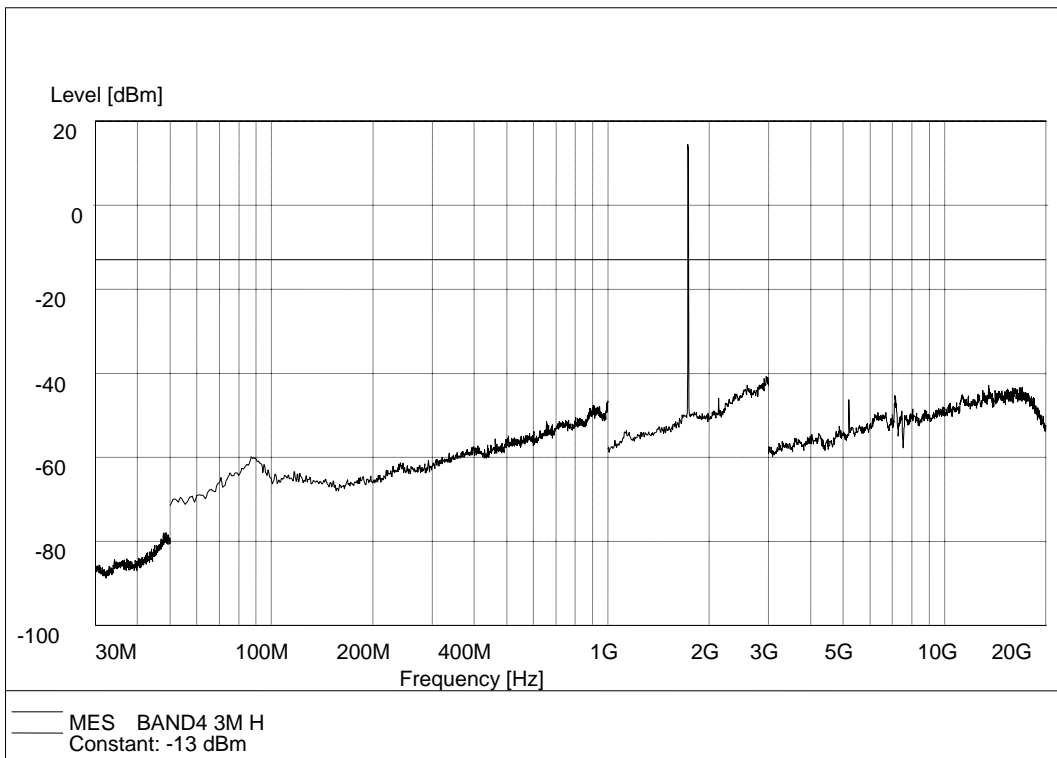
LTE Band 2 QPSK 20MHz BW Test Antenna Vertical



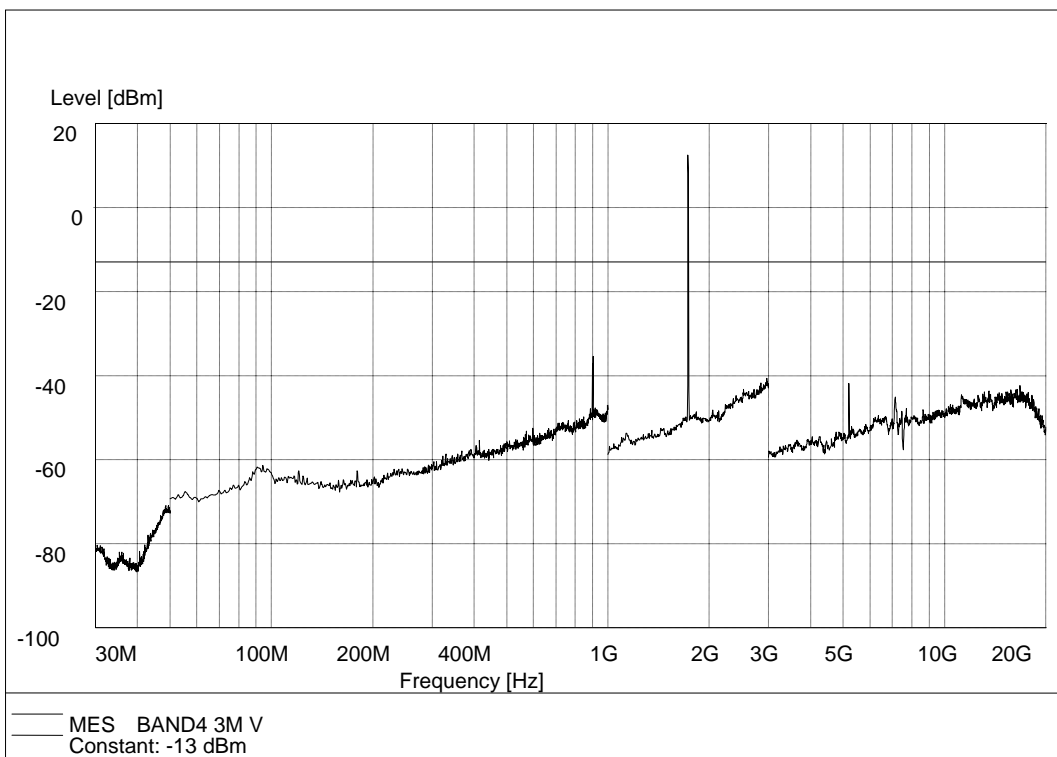
LTE Band 4 QPSK 1.4MHz BW Test Antenna Horizontal



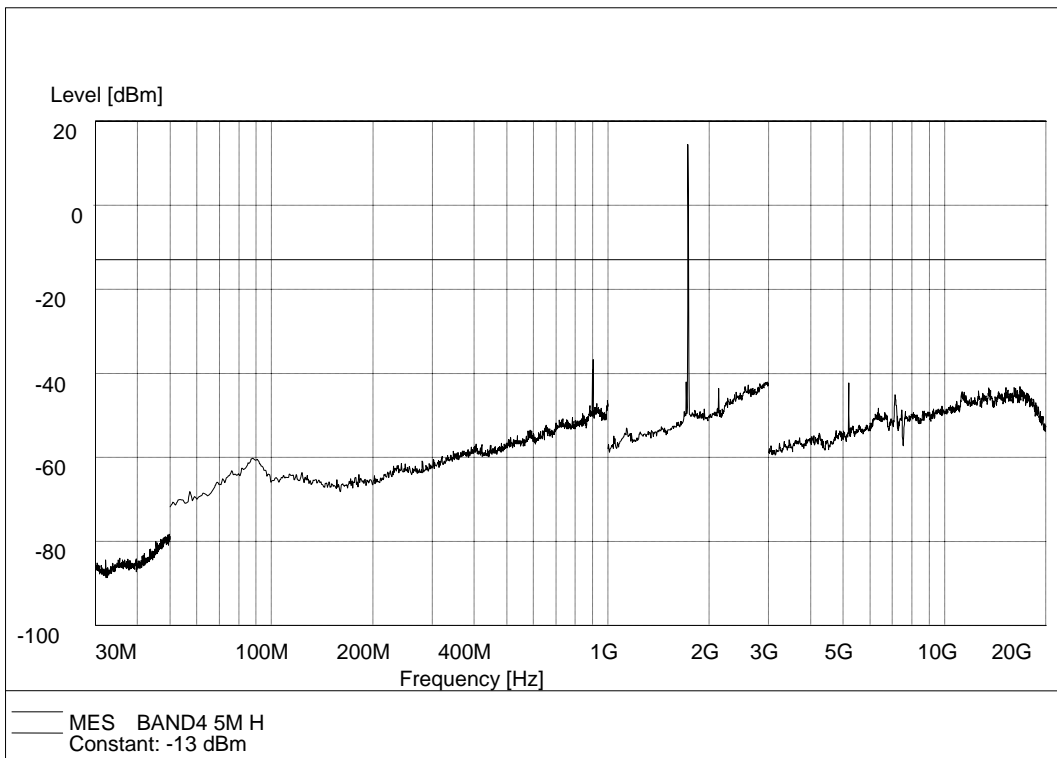
LTE Band 4 QPSK 1.4MHz BW Test Antenna Vertical



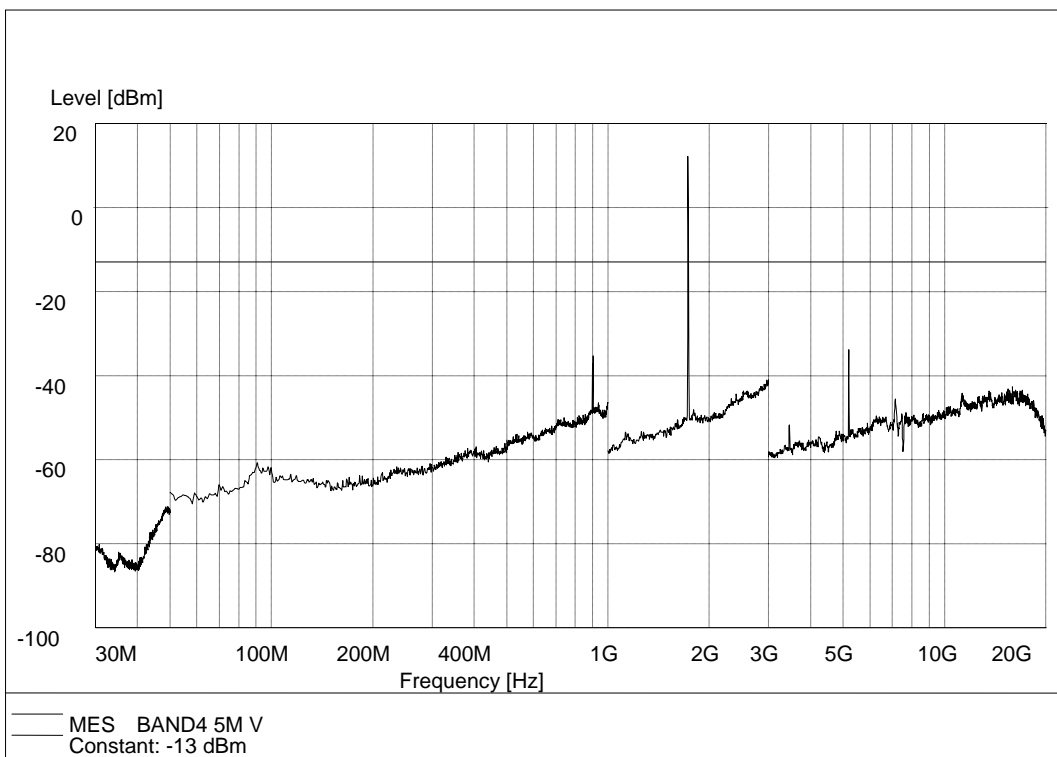
LTE Band 4 QPSK 3MHz BW Test Antenna Horizontal



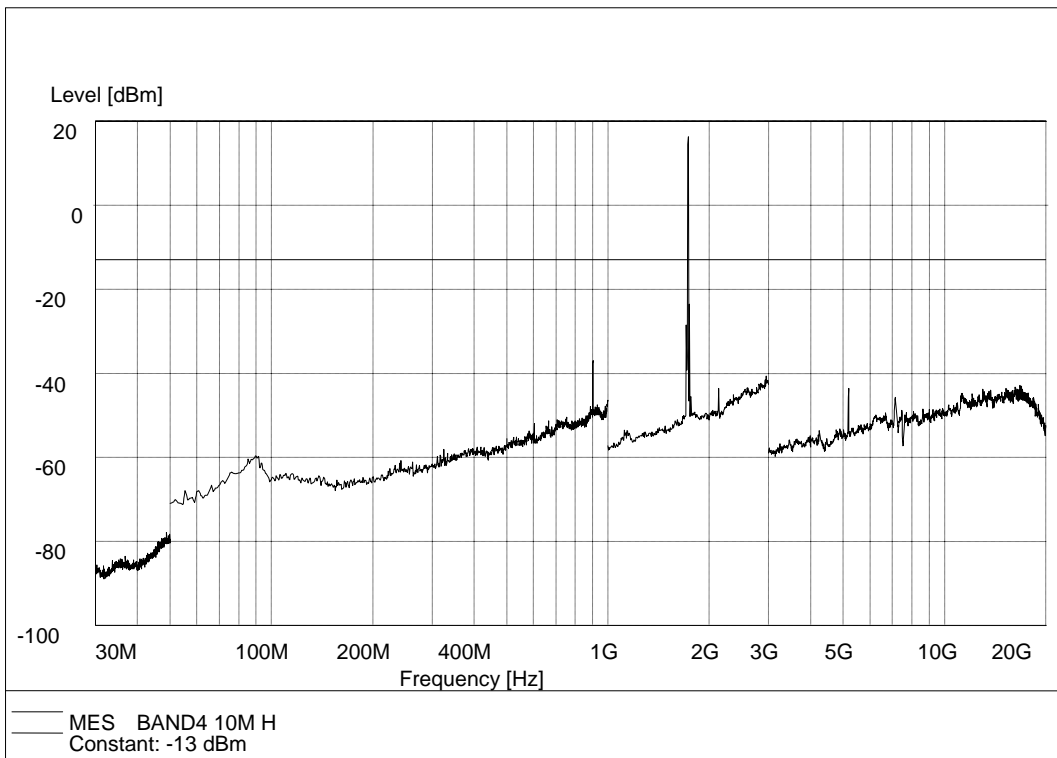
LTE Band 4 QPSK 3MHz BW Test Antenna Vertical



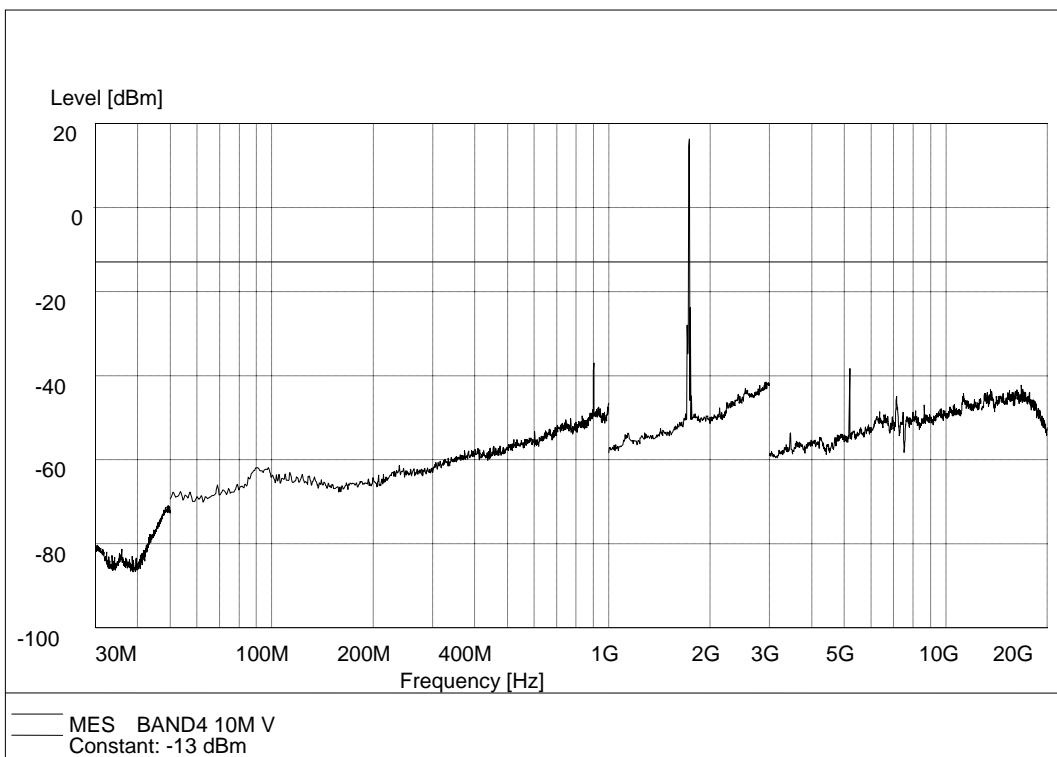
LTE Band 4 QPSK 5MHz BW Test Antenna Horizontal



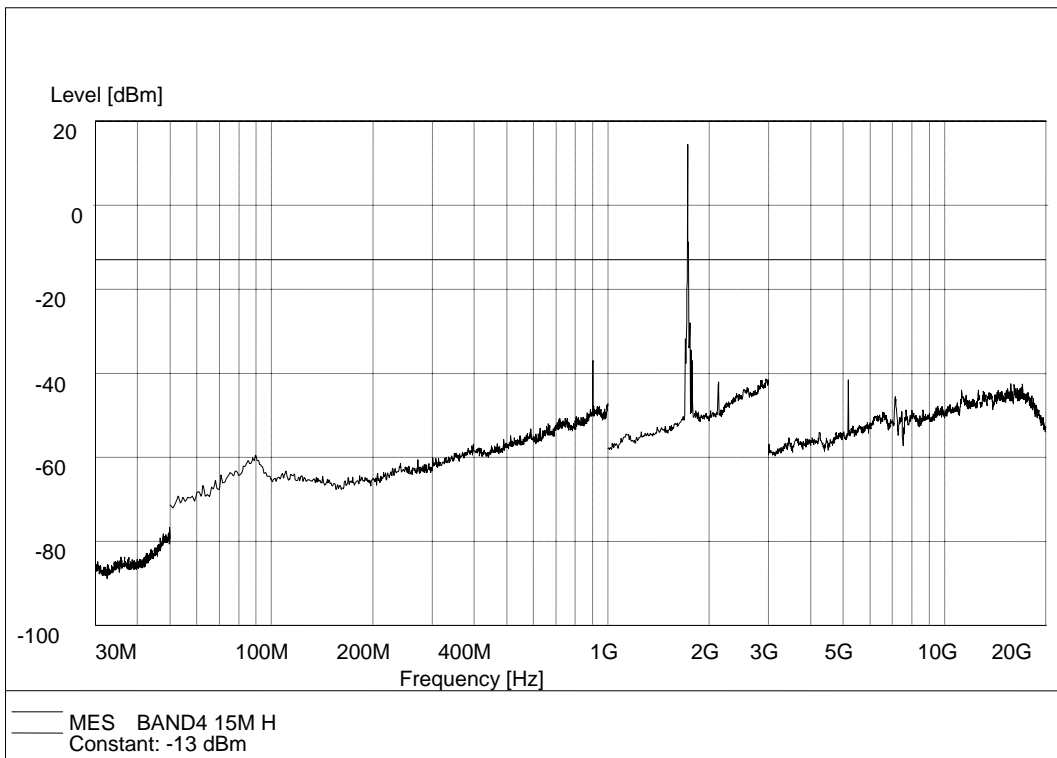
LTE Band 4 QPSK 5MHz BW Test Antenna Vertical



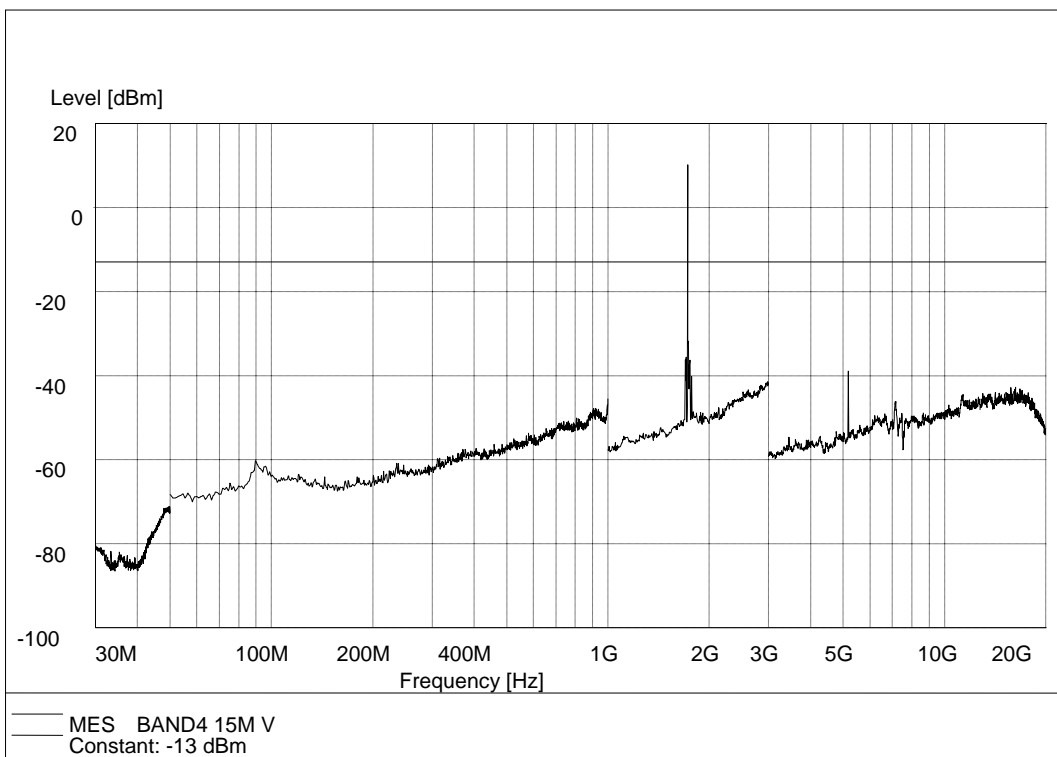
LTE Band 4 QPSK 10MHz BW Test Antenna Horizontal



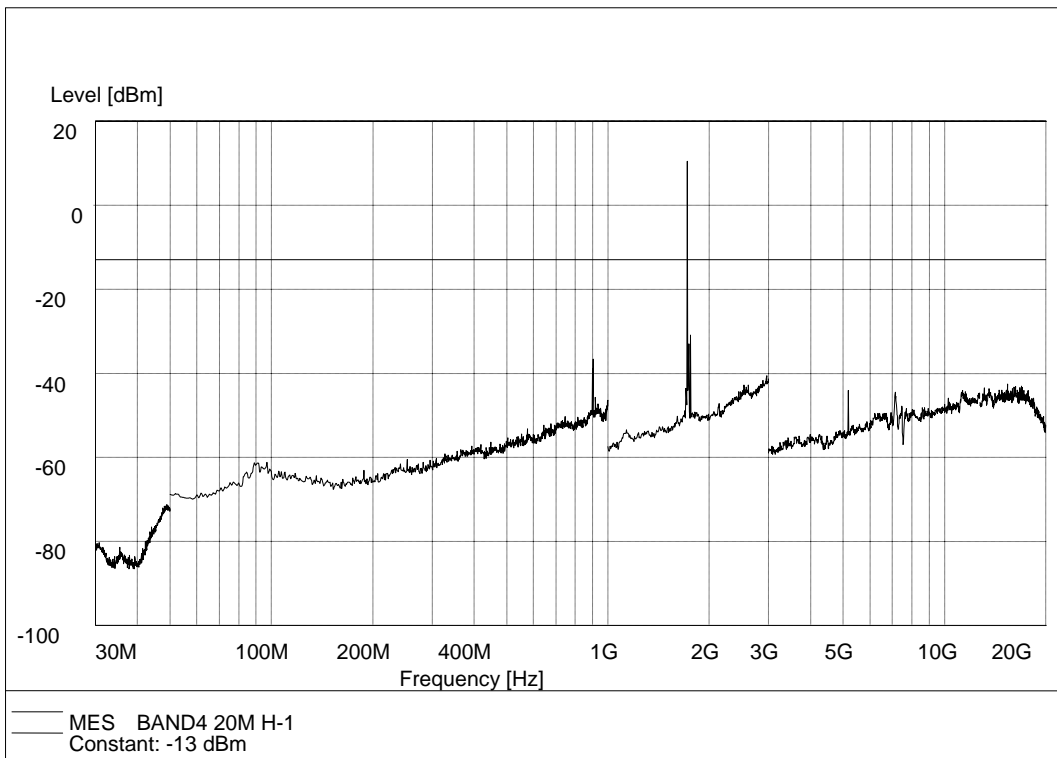
LTE Band 4 QPSK 10MHz BW Test Antenna Vertical



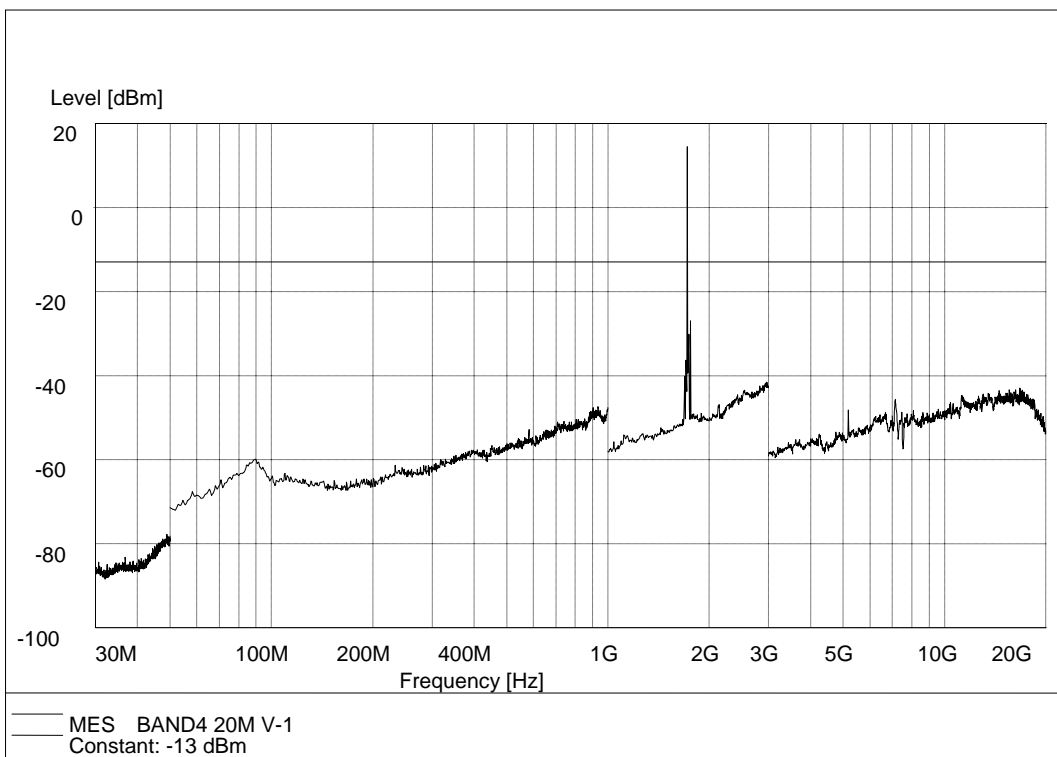
LTE Band 4 QPSK 15MHz BW Test Antenna Horizontal



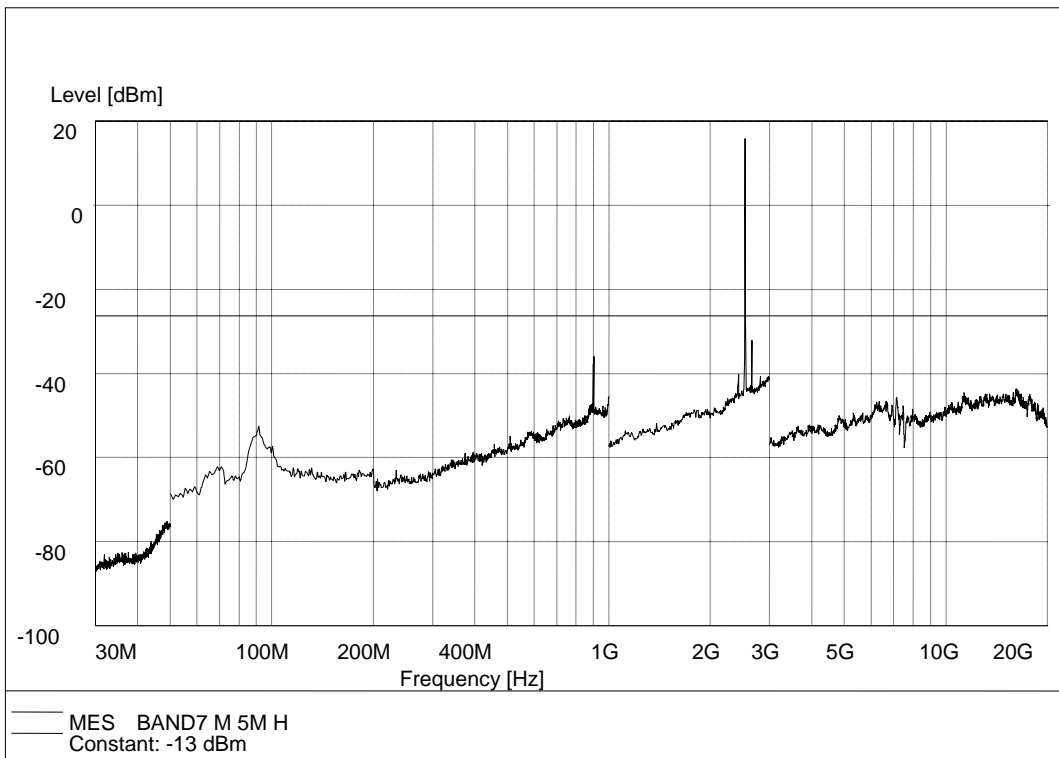
LTE Band 4 QPSK 15MHz BW Test Antenna Vertical



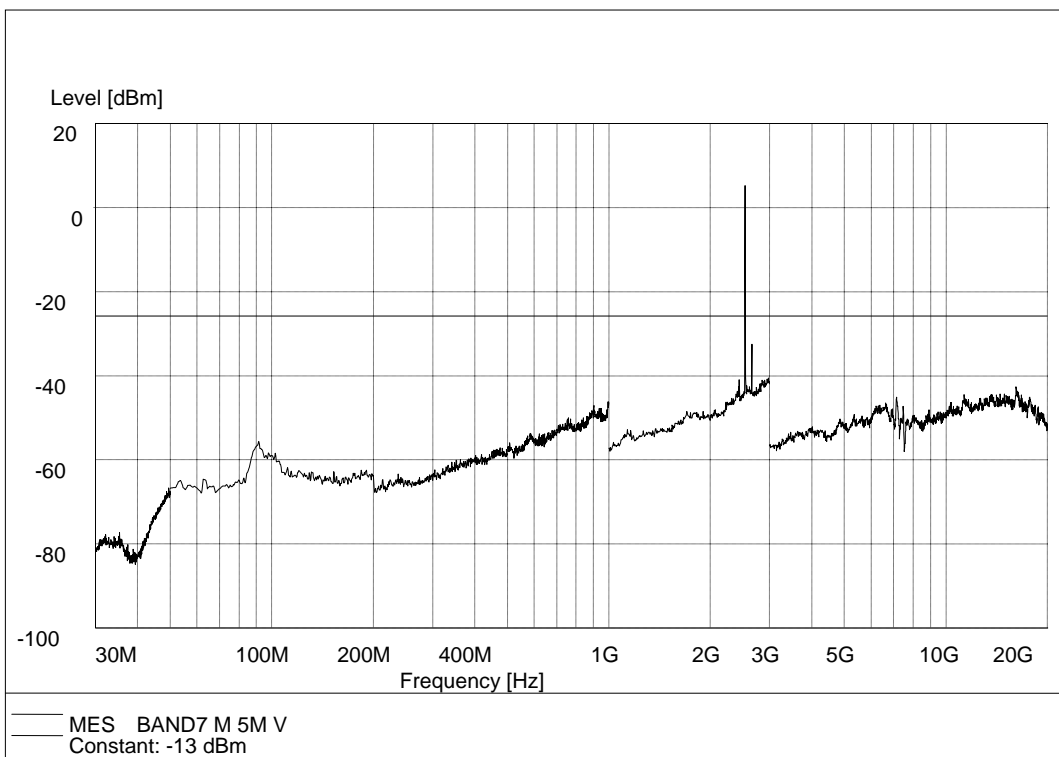
LTE Band 4 QPSK 20MHz BW Test Antenna Horizontal



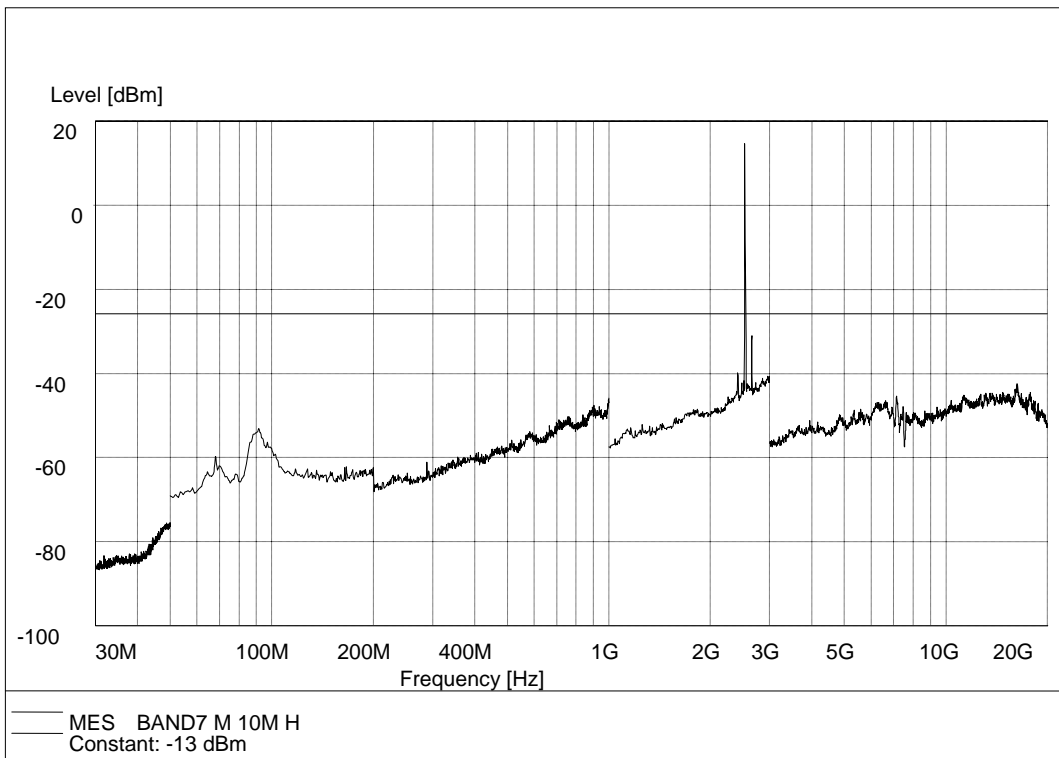
LTE Band 4 QPSK 20MHz BW Test Antenna Vertical



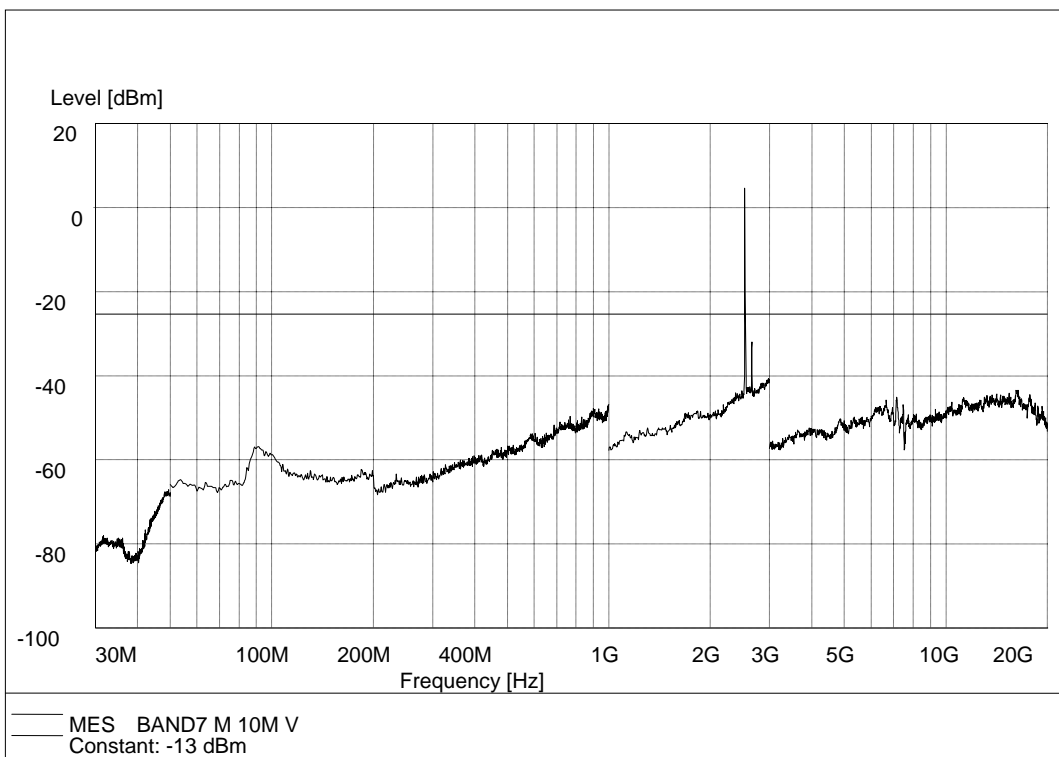
LTE Band 7 QPSK 5MHz BW Test Antenna Horizontal



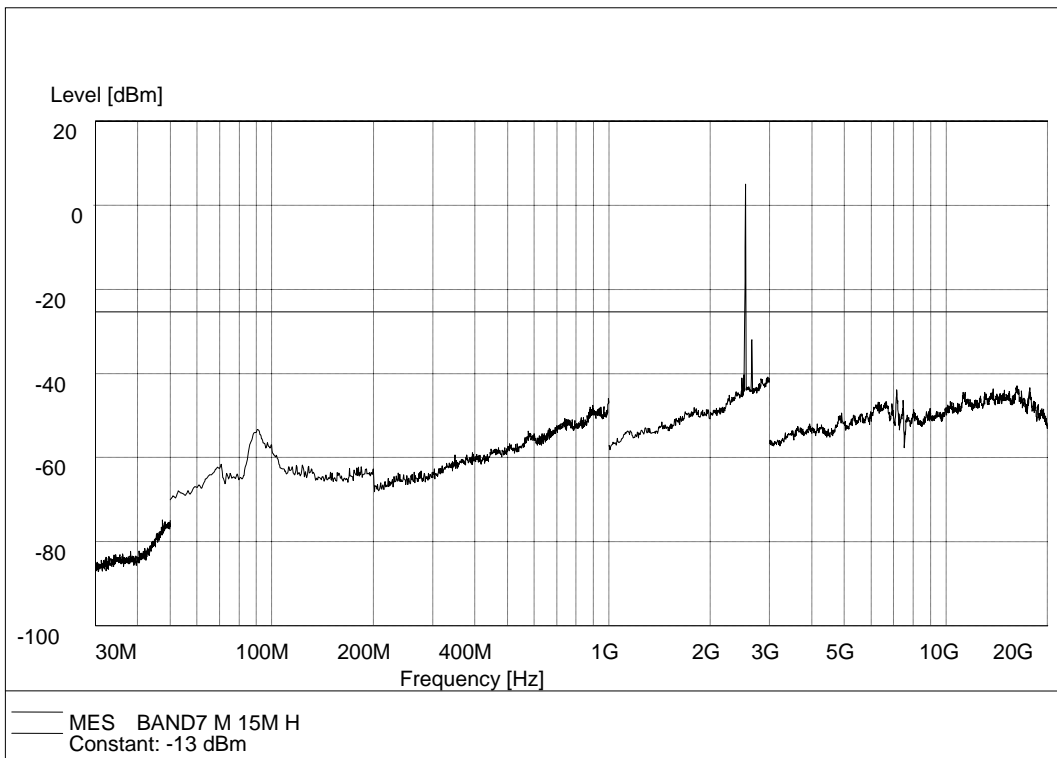
LTE Band 7 QPSK 5MHz BW Test Antenna Vertical



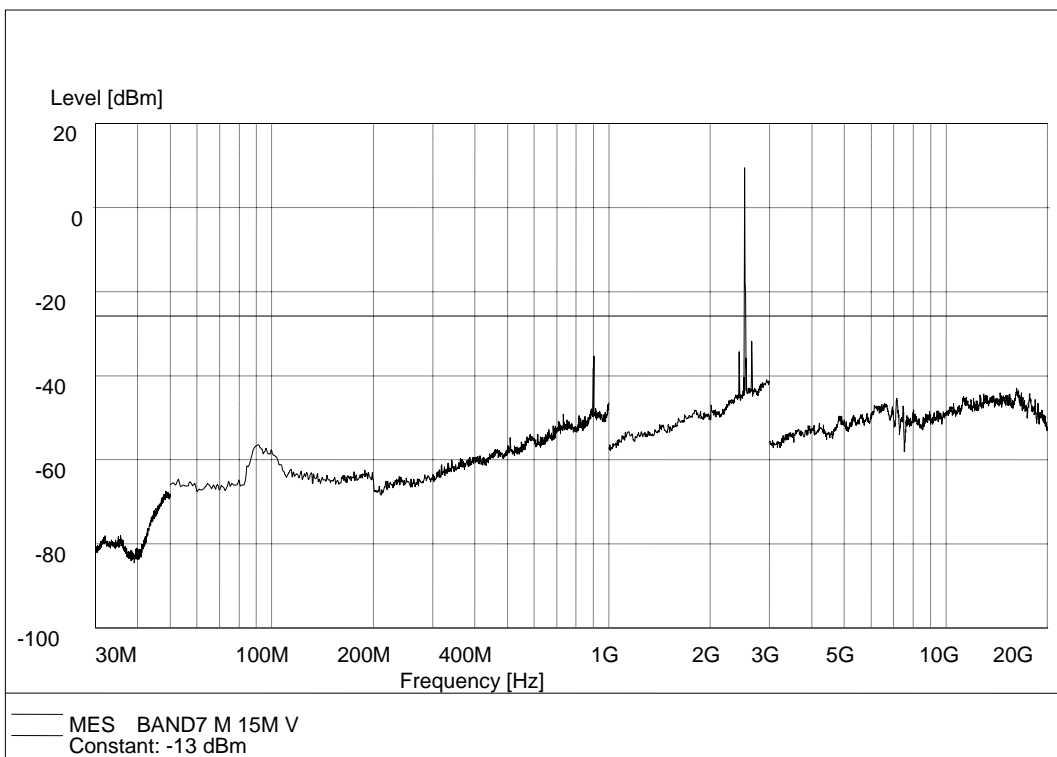
LTE Band 7 QPSK 10MHz BW Test Antenna Horizontal



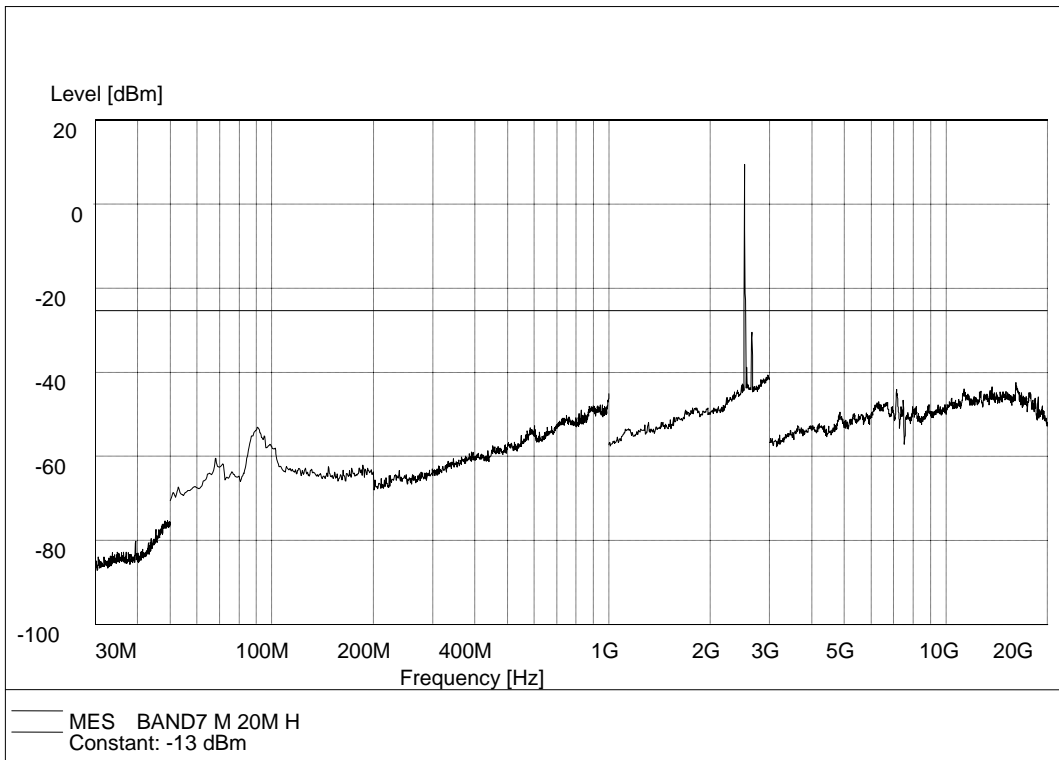
LTE Band 7 QPSK 10MHz BW Test Antenna Vertical



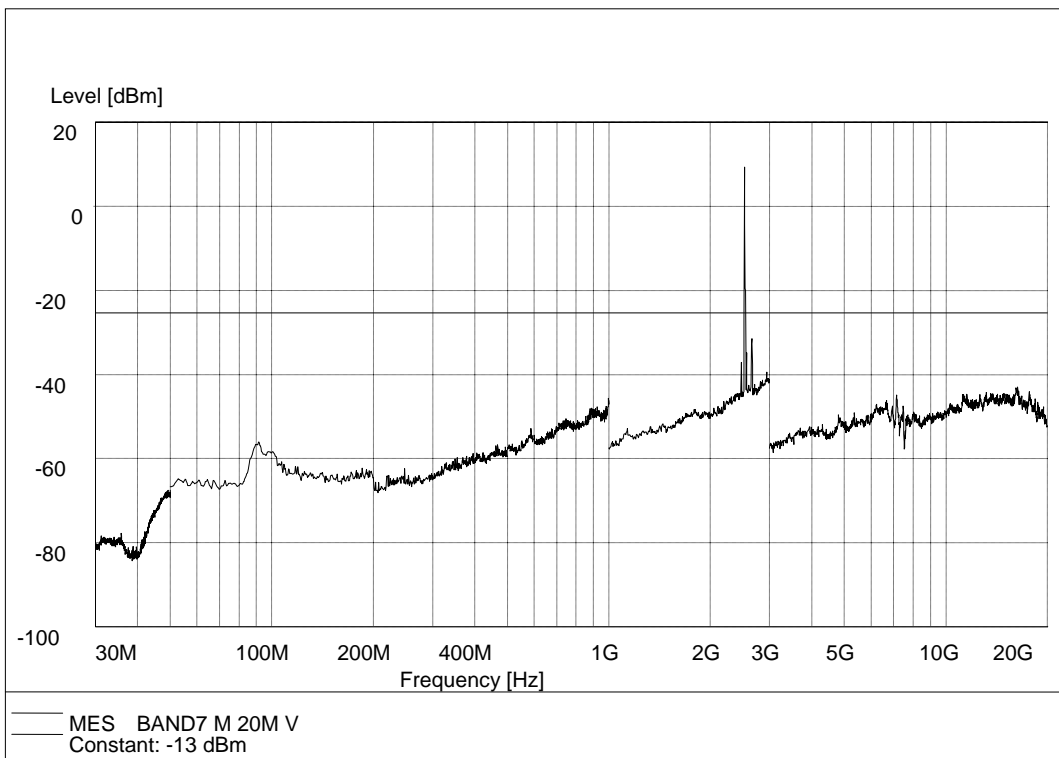
LTE Band 7 QPSK 15MHz BW Test Antenna Horizontal



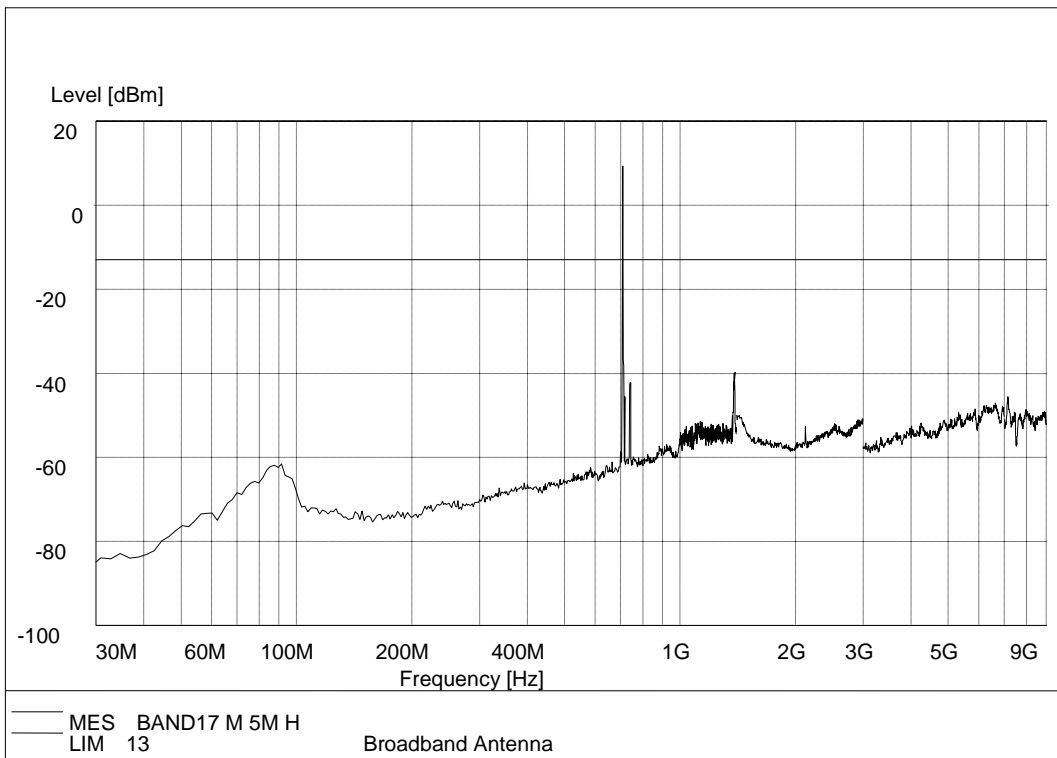
LTE Band 7 QPSK 15MHz BW Test Antenna Vertical



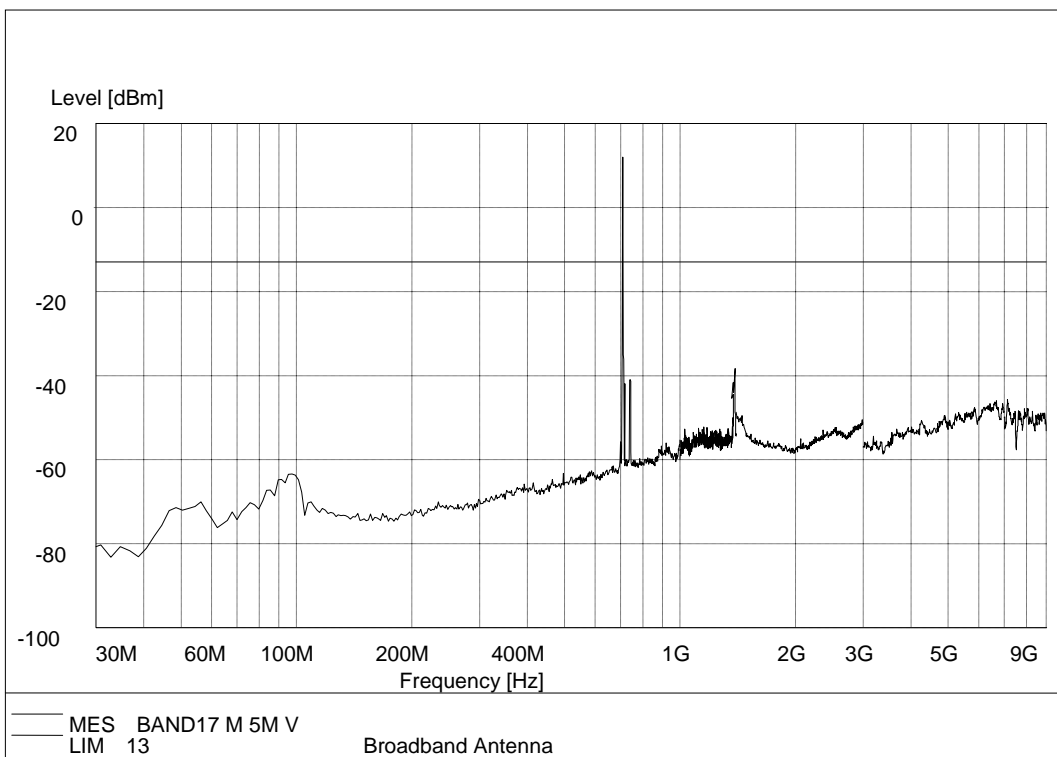
LTE Band 7 QPSK 20MHz BW Test Antenna Horizontal



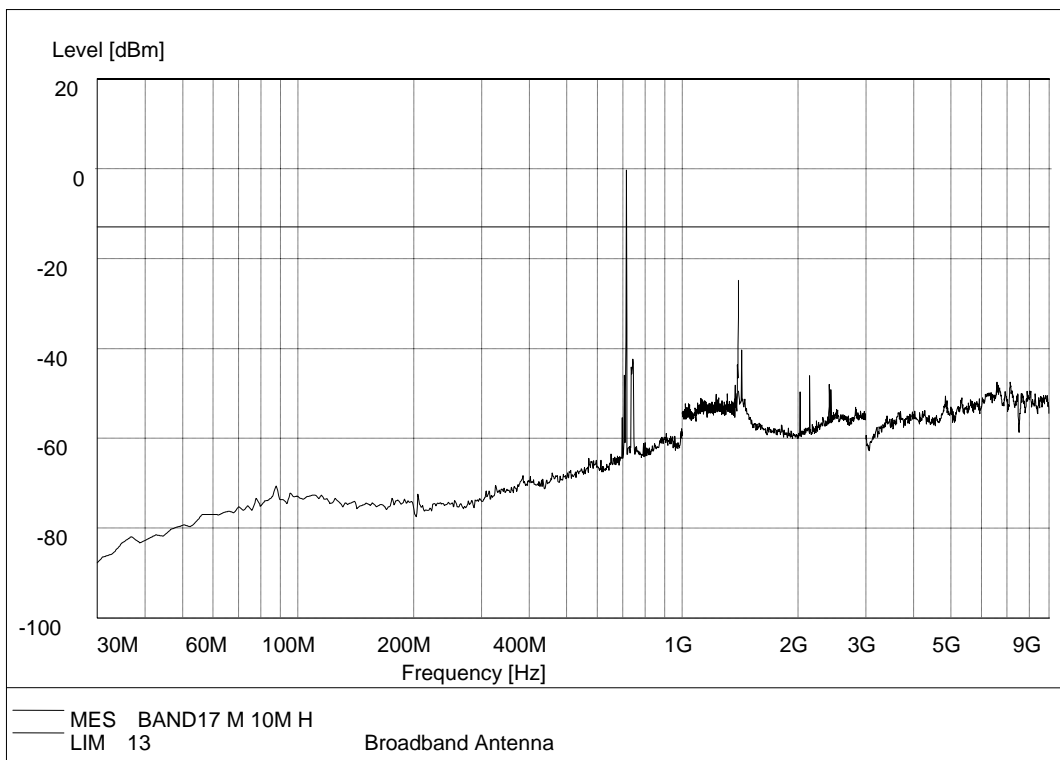
LTE Band 7 QPSK 20MHz BW Test Antenna Vertical



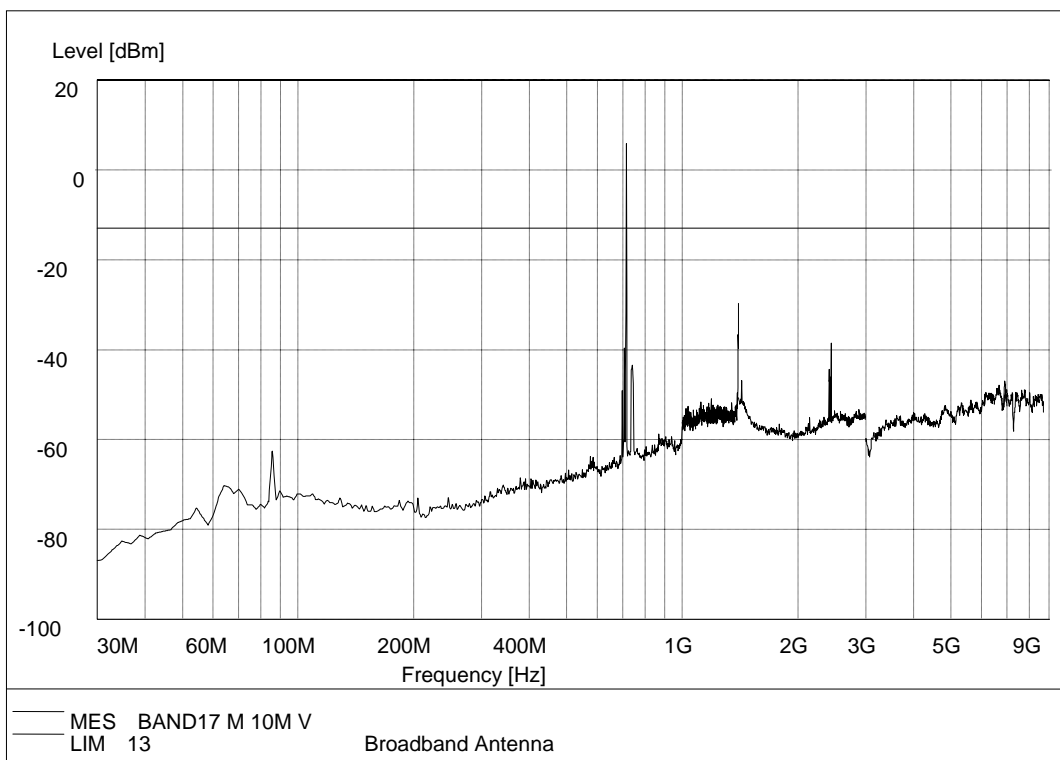
LTE Band 17 QPSK 5MHz BW Test Antenna Horizontal



LTE Band 17 QPSK 5MHz BW Test Antenna Vertical



LTE Band 17 QPSK 10MHz BW Test Antenna Horizontal



LTE Band 17 QPSK 10MHz BW Test Antenna Vertical



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Test Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2015.06.02	2016.06.01	Radiation
Full-Anechoic Chamber	Albatross	12.8m*6.8m* 6.4m	A0412372	2015.06.02	2016.06.01	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2015.06.02	2016.06.01	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2015.06.02	2016.06.01	Radiation
Double ridge horn antenna	R&S	HF906	100150	2015.06.02	2016.06.01	Radiation
Ultra-wideband antenna	R&S	HL562	100089	2015.06.02	2016.06.01	Radiation
Test Antenna – Horn (18-25GHz)	ETS	3160-09	A0902607	2015.06.02	2016.06.01	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2015.06.02	2016.06.01	Radiation
Ampilier 1G~18GHz	R&S	MITEQ AFS42-00101 800	25-S-42	2015.06.02	2016.06.01	Radiation
Ampilier 18G~40GHz	R&S	JS42-180026 00-28-5A	12111.0980.0 0	2015.06.02	2016.06.01	Radiation
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2015.07.07	2016.07.06	Conducted
Power Meter	R&S	NRVS	1020.1809.02	2015.06.02	2016.06.01	Conducted
Power Sensor	R&S	NRV-Z4	823.3618.03	2015.06.02	2016.06.01	Conducted
LISN	ROHDE&SCH WARZ	ESH2-Z5	A0304221	2015.06.02	2016.06.01	Conducted
Test Receiver	R&S	ESCS30	A0304260	2015.06.02	2016.06.01	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2015.06.02	2016.06.01	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2015.06.02	2016.06.01	Radiation

** END OF REPORT **