

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B4\_10M\_QPSK\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-53.730	H	-56.107	4.069	12.118	-48.058	-13	-35.058
5145.00	-65.870	H	-61.952	5.079	12.261	-54.770	-13	-41.770
3430.00	-59.220	V	-61.887	4.069	12.118	-53.838	-13	-40.838
5145.00	-65.040	V	-60.838	5.079	12.261	-53.656	-13	-40.656
Middle Channel 20175 (1732.50MHz)								
3465.00	-54.070	H	-56.451	4.090	12.209	-48.332	-13	-35.332
5197.50	-65.270	H	-61.314	5.094	12.356	-54.052	-13	-41.052
3465.00	-59.760	V	-62.433	4.090	12.209	-54.314	-13	-41.314
5197.50	-65.170	V	-61.005	5.094	12.356	-53.743	-13	-40.743
High Channel 20325 (1750.00MHz)								
3500.00	-54.490	H	-56.872	4.111	12.300	-48.683	-13	-35.683
5250.00	-64.700	H	-60.704	5.109	12.450	-53.363	-13	-40.363
3500.00	-60.190	V	-62.866	4.111	12.300	-54.677	-13	-41.677
5250.00	-64.470	V	-60.342	5.109	12.450	-53.001	-13	-40.001

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B4\_10M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-44.640	H	-47.017	4.069	12.118	-38.968	-13	-25.968
5145.00	-66.150	H	-62.232	5.079	12.261	-55.050	-13	-42.050
3430.00	-51.220	V	-53.887	4.069	12.118	-45.838	-13	-32.838
5145.00	-65.630	V	-61.428	5.079	12.261	-54.246	-13	-41.246
Middle Channel 20175 (1732.50MHz)								
3465.00	-44.520	H	-46.901	4.090	12.209	-38.782	-13	-25.782
5197.50	-65.240	H	-61.284	5.094	12.356	-54.022	-13	-41.022
3465.00	-51.000	V	-53.673	4.090	12.209	-45.554	-13	-32.554
5197.50	-63.330	V	-59.165	5.094	12.356	-51.903	-13	-38.903
High Channel 20325 (1750.00MHz)								
3500.00	-52.380	H	-54.762	4.111	12.300	-46.573	-13	-33.573
5250.00	-64.900	H	-60.904	5.109	12.450	-53.563	-13	-40.563
3500.00	-51.110	V	-53.786	4.111	12.300	-45.597	-13	-32.597
5250.00	-64.560	V	-60.432	5.109	12.450	-53.091	-13	-40.091

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B4\_10M\_16-QAM\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-44.730	H	-47.107	4.069	12.118	-39.058	-13	-26.058
5145.00	-65.590	H	-61.672	5.079	12.261	-54.490	-13	-41.490
3430.00	-51.120	V	-53.787	4.069	12.118	-45.738	-13	-32.738
5145.00	-65.700	V	-61.498	5.079	12.261	-54.316	-13	-41.316
Middle Channel 20175 (1732.50MHz)								
3465.00	-44.510	H	-46.891	4.090	12.209	-38.772	-13	-25.772
5197.50	-63.490	H	-59.534	5.094	12.356	-52.272	-13	-39.272
3465.00	-51.580	V	-54.253	4.090	12.209	-46.134	-13	-33.134
5197.50	-65.020	V	-60.855	5.094	12.356	-53.593	-13	-40.593
High Channel 20325 (1750.00MHz)								
3500.00	-48.620	H	-51.002	4.111	12.300	-42.813	-13	-29.813
5250.00	-65.030	H	-61.034	5.109	12.450	-53.693	-13	-40.693
3500.00	-53.750	V	-56.426	4.111	12.300	-48.237	-13	-35.237
5250.00	-65.260	V	-61.132	5.109	12.450	-53.791	-13	-40.791

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B4\_10M\_16-QAM\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-45.820	H	-48.197	4.069	12.118	-40.148	-13	-27.148
5145.00	-64.750	H	-60.832	5.079	12.261	-53.650	-13	-40.650
3430.00	-51.660	V	-54.327	4.069	12.118	-46.278	-13	-33.278
5145.00	-65.280	V	-61.078	5.079	12.261	-53.896	-13	-40.896
Middle Channel 20175 (1732.50MHz)								
3465.00	-45.640	H	-48.021	4.090	12.209	-39.902	-13	-26.902
5197.50	-62.960	H	-59.004	5.094	12.356	-51.742	-13	-38.742
3465.00	-52.580	V	-55.253	4.090	12.209	-47.134	-13	-34.134
5197.50	-63.460	V	-59.295	5.094	12.356	-52.033	-13	-39.033
High Channel 20325 (1750.00MHz)								
3500.00	-47.460	H	-49.842	4.111	12.300	-41.653	-13	-28.653
5250.00	-64.160	H	-60.164	5.109	12.450	-52.823	-13	-39.823
3500.00	-55.390	V	-58.066	4.111	12.300	-49.877	-13	-36.877
5250.00	-64.800	V	-60.672	5.109	12.450	-53.331	-13	-40.331

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B4\_10M\_16-QAM\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-51.730	H	-54.107	4.069	12.118	-46.058	-13	-33.058
5145.00	-65.170	H	-61.252	5.079	12.261	-54.070	-13	-41.070
3430.00	-56.900	V	-59.567	4.069	12.118	-51.518	-13	-38.518
5145.00	-64.900	V	-60.698	5.079	12.261	-53.516	-13	-40.516
Middle Channel 20175 (1732.50MHz)								
3465.00	-50.410	H	-52.791	4.090	12.209	-44.672	-13	-31.672
5197.50	-65.670	H	-61.714	5.094	12.356	-54.452	-13	-41.452
3465.00	-57.410	V	-60.083	4.090	12.209	-51.964	-13	-38.964
5197.50	-64.950	V	-60.785	5.094	12.356	-53.523	-13	-40.523
High Channel 20325 (1750.00MHz)								
3500.00	-53.900	H	-56.282	4.111	12.300	-48.093	-13	-35.093
5250.00	-64.960	H	-60.964	5.109	12.450	-53.623	-13	-40.623
3500.00	-59.300	V	-61.976	4.111	12.300	-53.787	-13	-40.787
5250.00	-64.450	V	-60.322	5.109	12.450	-52.981	-13	-39.981

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B4\_10M\_16-QAM\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-50.570	H	-52.947	4.069	12.118	-44.898	-13	-31.898
5145.00	-64.990	H	-61.072	5.079	12.261	-53.890	-13	-40.890
3430.00	-56.570	V	-59.237	4.069	12.118	-51.188	-13	-38.188
5145.00	-65.200	V	-60.998	5.079	12.261	-53.816	-13	-40.816
Middle Channel 20175 (1732.50MHz)								
3465.00	-51.190	H	-53.571	4.090	12.209	-45.452	-13	-32.452
5197.50	-63.190	H	-59.234	5.094	12.356	-51.972	-13	-38.972
3465.00	-58.310	V	-60.983	4.090	12.209	-52.864	-13	-39.864
5197.50	-64.240	V	-60.075	5.094	12.356	-52.813	-13	-39.813
High Channel 20325 (1750.00MHz)								
3500.00	-57.983	H	-60.365	4.111	12.300	-52.176	-13	-39.176
5250.00	-65.310	H	-61.314	5.109	12.450	-53.973	-13	-40.973
3500.00	-58.750	V	-61.426	4.111	12.300	-53.237	-13	-40.237
5250.00	-64.040	V	-59.912	5.109	12.450	-52.571	-13	-39.571

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B4\_10M\_16-QAM\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-50.440	H	-52.817	4.069	12.118	-44.768	-13	-31.768
5145.00	-65.660	H	-61.742	5.079	12.261	-54.560	-13	-41.560
3430.00	-56.630	V	-59.297	4.069	12.118	-51.248	-13	-38.248
5145.00	-64.880	V	-60.678	5.079	12.261	-53.496	-13	-40.496
Middle Channel 20175 (1732.50MHz)								
3465.00	-51.370	H	-53.751	4.090	12.209	-45.632	-13	-32.632
5197.50	-65.980	H	-62.024	5.094	12.356	-54.762	-13	-41.762
3465.00	-58.080	V	-60.753	4.090	12.209	-52.634	-13	-39.634
5197.50	-65.420	V	-61.255	5.094	12.356	-53.993	-13	-40.993
High Channel 20325 (1750.00MHz)								
3500.00	-53.070	H	-55.452	4.111	12.300	-47.263	-13	-34.263
5250.00	-65.630	H	-61.634	5.109	12.450	-54.293	-13	-41.293
3500.00	-59.380	V	-62.056	4.111	12.300	-53.867	-13	-40.867
5250.00	-64.400	V	-60.272	5.109	12.450	-52.931	-13	-39.931

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: LTE Band 4		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B4\_10M\_16-QAM\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20000 (1715.00MHz)								
3430.00	-53.500	H	-55.877	4.069	12.118	-47.828	-13	-34.828
5145.00	-65.000	H	-61.082	5.079	12.261	-53.900	-13	-40.900
3430.00	-59.130	V	-61.797	4.069	12.118	-53.748	-13	-40.748
5145.00	-64.950	V	-60.748	5.079	12.261	-53.566	-13	-40.566
Middle Channel 20175 (1732.50MHz)								
3465.00	-53.390	H	-55.771	4.090	12.209	-47.652	-13	-34.652
5197.50	-65.880	H	-61.924	5.094	12.356	-54.662	-13	-41.662
3465.00	-59.470	V	-62.143	4.090	12.209	-54.024	-13	-41.024
5197.50	-64.520	V	-60.355	5.094	12.356	-53.093	-13	-40.093
High Channel 20325 (1750.00MHz)								
3500.00	-57.830	H	-60.212	4.111	12.300	-52.023	-13	-39.023
5250.00	-65.250	H	-61.254	5.109	12.450	-53.913	-13	-40.913
3500.00	-58.490	V	-61.166	4.111	12.300	-52.977	-13	-39.977
5250.00	-64.900	V	-60.772	5.109	12.450	-53.431	-13	-40.431



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_QPSK\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-53.850	H	-59.880	2.799	8.774	-53.905	-13	-40.905
2487.00	-62.810	H	-65.675	3.447	10.579	-58.543	-13	-45.543
1658.00	-54.610	V	-61.808	2.799	8.774	-55.833	-13	-42.833
2487.00	-63.010	V	-66.650	3.447	10.579	-59.518	-13	-46.518
Middle Channel 20525 (836.50MHz)								
1673.00	-59.580	H	-65.751	2.812	8.819	-59.744	-13	-46.744
2509.50	-63.610	H	-66.505	3.463	10.608	-59.360	-13	-46.360
1673.00	-59.390	V	-66.690	2.812	8.819	-60.683	-13	-47.683
2509.50	-63.410	V	-67.034	3.463	10.608	-59.889	-13	-46.889
High Channel 20600 (844.00MHz)								
1688.00	-58.020	H	-64.331	2.826	8.864	-58.293	-13	-45.293
2532.00	-63.240	H	-66.083	3.479	10.626	-58.936	-13	-45.936
1688.00	-58.740	V	-66.140	2.826	8.864	-60.102	-13	-47.102
2532.00	-63.410	V	-66.938	3.479	10.626	-59.791	-13	-46.791

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_QPSK\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-58.030	H	-64.060	2.799	8.774	-58.085	-13	-45.085
2487.00	-63.490	H	-66.355	3.447	10.579	-59.223	-13	-46.223
1658.00	-59.150	V	-66.348	2.799	8.774	-60.373	-13	-47.373
2487.00	-63.240	V	-66.880	3.447	10.579	-59.748	-13	-46.748
Middle Channel 20525 (836.50MHz)								
1673.00	-59.900	H	-66.071	2.812	8.819	-60.064	-13	-47.064
2509.50	-63.660	H	-66.555	3.463	10.608	-59.410	-13	-46.410
1673.00	-59.350	V	-66.650	2.812	8.819	-60.643	-13	-47.643
2509.50	-63.570	V	-67.194	3.463	10.608	-60.049	-13	-47.049
High Channel 20600 (844.00MHz)								
1688.00	-54.600	H	-60.911	2.826	8.864	-54.873	-13	-41.873
2532.00	-63.000	H	-65.843	3.479	10.626	-58.696	-13	-45.696
1688.00	-54.320	V	-61.720	2.826	8.864	-55.682	-13	-42.682
2532.00	-63.220	V	-66.748	3.479	10.626	-59.601	-13	-46.601

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_QPSK\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-59.300	H	-65.330	2.799	8.774	-59.355	-13	-46.355
2487.00	-63.310	H	-66.175	3.447	10.579	-59.043	-13	-46.043
1658.00	-59.700	V	-66.898	2.799	8.774	-60.923	-13	-47.923
2487.00	-62.690	V	-66.330	3.447	10.579	-59.198	-13	-46.198
Middle Channel 20525 (836.50MHz)								
1673.00	-57.070	H	-63.241	2.812	8.819	-57.234	-13	-44.234
2509.50	-62.760	H	-65.655	3.463	10.608	-58.510	-13	-45.510
1673.00	-57.550	V	-64.850	2.812	8.819	-58.843	-13	-45.843
2509.50	-62.940	V	-66.564	3.463	10.608	-59.419	-13	-46.419
High Channel 20600 (844.00MHz)								
1688.00	-58.560	H	-64.871	2.826	8.864	-58.833	-13	-45.833
2532.00	-63.470	H	-66.313	3.479	10.626	-59.166	-13	-46.166
1688.00	-57.830	V	-65.230	2.826	8.864	-59.192	-13	-46.192
2532.00	-62.700	V	-66.228	3.479	10.626	-59.081	-13	-46.081

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_QPSK\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-58.800	H	-64.830	2.799	8.774	-58.855	-13	-45.855
2487.00	-63.630	H	-66.495	3.447	10.579	-59.363	-13	-46.363
1658.00	-59.600	V	-66.798	2.799	8.774	-60.823	-13	-47.823
2487.00	-62.590	V	-66.230	3.447	10.579	-59.098	-13	-46.098
Middle Channel 20525 (836.50MHz)								
1673.00	-60.290	H	-66.461	2.812	8.819	-60.454	-13	-47.454
2509.50	-63.200	H	-66.095	3.463	10.608	-58.950	-13	-45.950
1673.00	-60.640	V	-67.940	2.812	8.819	-61.933	-13	-48.933
2509.50	-63.250	V	-66.874	3.463	10.608	-59.729	-13	-46.729
High Channel 20600 (844.00MHz)								
1688.00	-58.470	H	-64.781	2.826	8.864	-58.743	-13	-45.743
2532.00	-63.110	H	-65.953	3.479	10.626	-58.806	-13	-45.806
1688.00	-58.410	V	-65.810	2.826	8.864	-59.772	-13	-46.772
2532.00	-63.200	V	-66.728	3.479	10.626	-59.581	-13	-46.581

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_QPSK\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-59.290	H	-65.320	2.799	8.774	-59.345	-13	-46.345
2487.00	-63.520	H	-66.385	3.447	10.579	-59.253	-13	-46.253
1658.00	-60.840	V	-68.038	2.799	8.774	-62.063	-13	-49.063
2487.00	-63.350	V	-66.990	3.447	10.579	-59.858	-13	-46.858
Middle Channel 20525 (836.50MHz)								
1673.00	-60.300	H	-66.471	2.812	8.819	-60.464	-13	-47.464
2509.50	-63.710	H	-66.605	3.463	10.608	-59.460	-13	-46.460
1673.00	-60.060	V	-67.360	2.812	8.819	-61.353	-13	-48.353
2509.50	-63.000	V	-66.624	3.463	10.608	-59.479	-13	-46.479
High Channel 20600 (844.00MHz)								
1688.00	-59.390	H	-65.701	2.826	8.864	-59.663	-13	-46.663
2532.00	-63.750	H	-66.593	3.479	10.626	-59.446	-13	-46.446
1688.00	-58.750	V	-66.150	2.826	8.864	-60.112	-13	-47.112
2532.00	-63.750	V	-67.278	3.479	10.626	-60.131	-13	-47.131

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_QPSK\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-59.430	H	-65.460	2.799	8.774	-59.485	-13	-46.485
2487.00	-62.880	H	-65.745	3.447	10.579	-58.613	-13	-45.613
1658.00	-60.150	V	-67.348	2.799	8.774	-61.373	-13	-48.373
2487.00	-62.840	V	-66.480	3.447	10.579	-59.348	-13	-46.348
Middle Channel 20525 (836.50MHz)								
1673.00	-59.700	H	-65.871	2.812	8.819	-59.864	-13	-46.864
2509.50	-62.780	H	-65.675	3.463	10.608	-58.530	-13	-45.530
1673.00	-60.030	V	-67.330	2.812	8.819	-61.323	-13	-48.323
2509.50	-63.290	V	-66.914	3.463	10.608	-59.769	-13	-46.769
High Channel 20600 (844.00MHz)								
1688.00	-59.910	H	-66.221	2.826	8.864	-60.183	-13	-47.183
2532.00	-63.580	H	-66.423	3.479	10.626	-59.276	-13	-46.276
1688.00	-59.270	V	-66.670	2.826	8.864	-60.632	-13	-47.632
2532.00	-62.870	V	-66.398	3.479	10.626	-59.251	-13	-46.251

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_QPSK\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-59.640	H	-65.670	2.799	8.774	-59.695	-13	-46.695
2487.00	-62.850	H	-65.715	3.447	10.579	-58.583	-13	-45.583
1658.00	-60.990	V	-68.188	2.799	8.774	-62.213	-13	-49.213
2487.00	-62.980	V	-66.620	3.447	10.579	-59.488	-13	-46.488
Middle Channel 20525 (836.50MHz)								
1673.00	-60.620	H	-66.791	2.812	8.819	-60.784	-13	-47.784
2509.50	-63.040	H	-65.935	3.463	10.608	-58.790	-13	-45.790
1673.00	-59.990	V	-67.290	2.812	8.819	-61.283	-13	-48.283
2509.50	-63.360	V	-66.984	3.463	10.608	-59.839	-13	-46.839
High Channel 20600 (844.00MHz)								
1688.00	-60.090	H	-66.401	2.826	8.864	-60.363	-13	-47.363
2532.00	-63.790	H	-66.633	3.479	10.626	-59.486	-13	-46.486
1688.00	-59.440	V	-66.840	2.826	8.864	-60.802	-13	-47.802
2532.00	-62.920	V	-66.448	3.479	10.626	-59.301	-13	-46.301

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-53.110	H	-59.140	2.799	8.774	-53.165	-13	-40.165
2487.00	-62.470	H	-65.335	3.447	10.579	-58.203	-13	-45.203
1658.00	-55.100	V	-62.298	2.799	8.774	-56.323	-13	-43.323
2487.00	-62.870	V	-66.510	3.447	10.579	-59.378	-13	-46.378
Middle Channel 20525 (836.50MHz)								
1673.00	-59.840	H	-66.011	2.812	8.819	-60.004	-13	-47.004
2509.50	-63.810	H	-66.705	3.463	10.608	-59.560	-13	-46.560
1673.00	-59.850	V	-67.150	2.812	8.819	-61.143	-13	-48.143
2509.50	-63.420	V	-67.044	3.463	10.608	-59.899	-13	-46.899
High Channel 20600 (844.00MHz)								
1688.00	-59.030	H	-65.341	2.826	8.864	-59.303	-13	-46.303
2532.00	-63.390	H	-66.233	3.479	10.626	-59.086	-13	-46.086
1688.00	-58.780	V	-66.180	2.826	8.864	-60.142	-13	-47.142
2532.00	-62.880	V	-66.408	3.479	10.626	-59.261	-13	-46.261



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_16-QAM\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-57.100	H	-63.130	2.799	8.774	-57.155	-13	-44.155
2487.00	-62.800	H	-65.665	3.447	10.579	-58.533	-13	-45.533
1658.00	-59.180	V	-66.378	2.799	8.774	-60.403	-13	-47.403
2487.00	-62.670	V	-66.310	3.447	10.579	-59.178	-13	-46.178
Middle Channel 20525 (836.50MHz)								
1673.00	-59.320	H	-65.491	2.812	8.819	-59.484	-13	-46.484
2509.50	-63.610	H	-66.505	3.463	10.608	-59.360	-13	-46.360
1673.00	-59.500	V	-65.671	2.812	8.819	-59.664	-13	-46.664
2509.50	-63.500	V	-67.124	3.463	10.608	-59.979	-13	-46.979
High Channel 20600 (844.00MHz)								
1688.00	-55.570	H	-61.881	2.826	8.864	-55.843	-13	-42.843
2532.00	-63.220	H	-66.063	3.479	10.626	-58.916	-13	-45.916
1688.00	-55.280	V	-62.680	2.826	8.864	-56.642	-13	-43.642
2532.00	-63.350	V	-66.878	3.479	10.626	-59.731	-13	-46.731

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_16-QAM\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-58.750	H	-64.780	2.799	8.774	-58.805	-13	-45.805
2487.00	-63.610	H	-66.475	3.447	10.579	-59.343	-13	-46.343
1658.00	-59.050	V	-66.248	2.799	8.774	-60.273	-13	-47.273
2487.00	-63.230	V	-66.870	3.447	10.579	-59.738	-13	-46.738
Middle Channel 20525 (836.50MHz)								
1673.00	-57.330	H	-63.501	2.812	8.819	-57.494	-13	-44.494
2509.50	-63.740	H	-66.635	3.463	10.608	-59.490	-13	-46.490
1673.00	-57.330	V	-64.630	2.812	8.819	-58.623	-13	-45.623
2509.50	-62.210	V	-65.834	3.463	10.608	-58.689	-13	-45.689
High Channel 20600 (844.00MHz)								
1688.00	-59.110	H	-65.421	2.826	8.864	-59.383	-13	-46.383
2532.00	-63.170	H	-66.013	3.479	10.626	-58.866	-13	-45.866
1688.00	-58.020	V	-65.420	2.826	8.864	-59.382	-13	-46.382
2532.00	-63.300	V	-66.828	3.479	10.626	-59.681	-13	-46.681

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_16-QAM\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-59.380	H	-65.410	2.799	8.774	-59.435	-13	-46.435
2487.00	-62.940	H	-65.805	3.447	10.579	-58.673	-13	-45.673
1658.00	-59.570	V	-66.768	2.799	8.774	-60.793	-13	-47.793
2487.00	-63.000	V	-66.640	3.447	10.579	-59.508	-13	-46.508
Middle Channel 20525 (836.50MHz)								
1673.00	-60.230	H	-66.401	2.812	8.819	-60.394	-13	-47.394
2509.50	-63.410	H	-66.305	3.463	10.608	-59.160	-13	-46.160
1673.00	-60.670	V	-67.970	2.812	8.819	-61.963	-13	-48.963
2509.50	-63.100	V	-66.724	3.463	10.608	-59.579	-13	-46.579
High Channel 20600 (844.00MHz)								
1688.00	-60.280	H	-66.591	2.826	8.864	-60.553	-13	-47.553
2532.00	-62.430	H	-65.273	3.479	10.626	-58.126	-13	-45.126
1688.00	-59.240	V	-66.640	2.826	8.864	-60.602	-13	-47.602
2532.00	-63.400	V	-66.928	3.479	10.626	-59.781	-13	-46.781

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B5\_10M\_16-QAM\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-59.640	H	-65.670	2.799	8.774	-59.695	-13	-46.695
2487.00	-63.540	H	-66.405	3.447	10.579	-59.273	-13	-46.273
1658.00	-60.320	V	-67.518	2.799	8.774	-61.543	-13	-48.543
2487.00	-62.720	V	-66.360	3.447	10.579	-59.228	-13	-46.228
Middle Channel 20525 (836.50MHz)								
1673.00	-60.490	H	-66.661	2.812	8.819	-60.654	-13	-47.654
2509.50	-63.220	H	-66.115	3.463	10.608	-58.970	-13	-45.970
1673.00	-60.700	V	-68.000	2.812	8.819	-61.993	-13	-48.993
2509.50	-63.350	V	-66.974	3.463	10.608	-59.829	-13	-46.829
High Channel 20600 (844.00MHz)								
1688.00	-59.320	H	-65.631	2.826	8.864	-59.593	-13	-46.593
2532.00	-62.520	H	-65.363	3.479	10.626	-58.216	-13	-45.216
1688.00	-58.930	V	-66.330	2.826	8.864	-60.292	-13	-47.292
2532.00	-63.360	V	-66.888	3.479	10.626	-59.741	-13	-46.741

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_16-QAM\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-60.220	H	-66.250	2.799	8.774	-60.275	-13	-47.275
2487.00	-63.190	H	-66.055	3.447	10.579	-58.923	-13	-45.923
1658.00	-60.800	V	-67.998	2.799	8.774	-62.023	-13	-49.023
2487.00	-63.250	V	-66.890	3.447	10.579	-59.758	-13	-46.758
Middle Channel 20525 (836.50MHz)								
1673.00	-60.370	H	-66.541	2.812	8.819	-60.534	-13	-47.534
2509.50	-63.350	H	-66.245	3.463	10.608	-59.100	-13	-46.100
1673.00	-60.540	V	-67.840	2.812	8.819	-61.833	-13	-48.833
2509.50	-63.100	V	-66.724	3.463	10.608	-59.579	-13	-46.579
High Channel 20600 (844.00MHz)								
1688.00	-58.760	H	-65.071	2.826	8.864	-59.033	-13	-46.033
2532.00	-63.240	H	-66.083	3.479	10.626	-58.936	-13	-45.936
1688.00	-59.290	V	-66.690	2.826	8.864	-60.652	-13	-47.652
2532.00	-62.870	V	-66.398	3.479	10.626	-59.251	-13	-46.251

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: LTE Band 5		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_16-QAM\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-61.360	H	-67.390	2.799	8.774	-61.415	-13	-48.415
2487.00	-63.540	H	-66.405	3.447	10.579	-59.273	-13	-46.273
1658.00	-61.110	V	-68.308	2.799	8.774	-62.333	-13	-49.333
2487.00	-62.920	V	-66.560	3.447	10.579	-59.428	-13	-46.428
Middle Channel 20525 (836.50MHz)								
1673.00	-60.730	H	-66.901	2.812	8.819	-60.894	-13	-47.894
2509.50	-63.300	H	-66.195	3.463	10.608	-59.050	-13	-46.050
1673.00	-60.130	V	-67.430	2.812	8.819	-61.423	-13	-48.423
2509.50	-62.870	V	-66.494	3.463	10.608	-59.349	-13	-46.349
High Channel 20600 (844.00MHz)								
1688.00	-60.050	H	-66.361	2.826	8.864	-60.323	-13	-47.323
2532.00	-62.440	H	-65.283	3.479	10.626	-58.136	-13	-45.136
1688.00	-60.130	V	-67.530	2.826	8.864	-61.492	-13	-48.492
2532.00	-63.370	V	-66.898	3.479	10.626	-59.751	-13	-46.751

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_QPSK\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-65.950	H	-62.125	5.043	12.036	-55.132	-13	-42.132
7530.00	-69.750	H	-53.579	6.478	12.277	-47.780	-13	-34.780
5020.00	-66.090	V	-61.800	5.043	12.036	-54.807	-13	-41.807
7530.00	-69.500	V	-53.058	6.478	12.277	-47.259	-13	-34.259
Middle Channel 21100 (2535.00MHz)								
5070.00	-59.060	H	-55.198	5.057	12.126	-48.129	-13	-35.129
7605.00	-68.180	H	-51.650	6.579	12.345	-45.884	-13	-32.884
5070.00	-58.910	V	-54.655	5.057	12.126	-47.586	-13	-34.586
7605.00	-67.880	V	-51.205	6.579	12.345	-45.439	-13	-32.439
High Channel 21350 (2560.00MHz)								
5120.00	-59.590	H	-55.690	5.072	12.216	-48.546	-13	-35.546
7680.00	-67.640	H	-50.749	6.680	12.412	-45.017	-13	-32.017
5120.00	-60.370	V	-56.150	5.072	12.216	-49.006	-13	-36.006
7680.00	-68.190	V	-51.281	6.680	12.412	-45.549	-13	-32.549

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_QPSK\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-57.530	H	-53.705	5.043	12.036	-46.712	-13	-33.712
7530.00	-69.620	H	-53.449	6.478	12.277	-47.650	-13	-34.650
5020.00	-56.740	V	-52.450	5.043	12.036	-45.457	-13	-32.457
7530.00	-69.650	V	-53.208	6.478	12.277	-47.409	-13	-34.409
Middle Channel 21100 (2535.00MHz)								
5070.00	-58.380	H	-54.518	5.057	12.126	-47.449	-13	-34.449
7605.00	-67.870	H	-51.340	6.579	12.345	-45.574	-13	-32.574
5070.00	-57.160	V	-52.905	5.057	12.126	-45.836	-13	-32.836
7605.00	-68.800	V	-52.125	6.579	12.345	-46.359	-13	-33.359
High Channel 21350 (2560.00MHz)								
5120.00	-59.770	H	-55.870	5.072	12.216	-48.726	-13	-35.726
7680.00	-67.650	H	-50.759	6.680	12.412	-45.027	-13	-32.027
5120.00	-59.430	V	-55.210	5.072	12.216	-48.066	-13	-35.066
7680.00	-67.690	V	-50.781	6.680	12.412	-45.049	-13	-32.049



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_QPSK\_1RB99\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-58.880	H	-55.055	5.043	12.036	-48.062	-13	-35.062
7530.00	-69.870	H	-53.699	6.478	12.277	-47.900	-13	-34.900
5020.00	-58.660	V	-54.370	5.043	12.036	-47.377	-13	-34.377
7530.00	-69.020	V	-52.578	6.478	12.277	-46.779	-13	-33.779
Middle Channel 21100 (2535.00MHz)								
5070.00	-58.200	H	-54.338	5.057	12.126	-47.269	-13	-34.269
7605.00	-68.630	H	-52.100	6.579	12.345	-46.334	-13	-33.334
5070.00	-58.510	V	-54.255	5.057	12.126	-47.186	-13	-34.186
7605.00	-68.590	V	-51.915	6.579	12.345	-46.149	-13	-33.149
High Channel 21350 (2560.00MHz)								
5120.00	-58.900	H	-55.000	5.072	12.216	-47.856	-13	-34.856
7680.00	-67.550	H	-50.659	6.680	12.412	-44.927	-13	-31.927
5120.00	-58.720	V	-54.500	5.072	12.216	-47.356	-13	-34.356
7680.00	-67.550	V	-50.641	6.680	12.412	-44.909	-13	-31.909

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_QPSK\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-62.680	H	-58.855	5.043	12.036	-51.862	-13	-38.862
7530.00	-69.380	H	-53.209	6.478	12.277	-47.410	-13	-34.410
5020.00	-60.000	V	-55.710	5.043	12.036	-48.717	-13	-35.717
7530.00	-68.370	V	-51.928	6.478	12.277	-46.129	-13	-33.129
Middle Channel 21100 (2535.00MHz)								
5070.00	-64.350	H	-60.488	5.057	12.126	-53.419	-13	-40.419
7605.00	-68.600	H	-52.070	6.579	12.345	-46.304	-13	-33.304
5070.00	-61.830	V	-57.575	5.057	12.126	-50.506	-13	-37.506
7605.00	-67.590	V	-50.915	6.579	12.345	-45.149	-13	-32.149
High Channel 21350 (2560.00MHz)								
5120.00	-64.590	H	-60.690	5.072	12.216	-53.546	-13	-40.546
7680.00	-67.780	H	-50.889	6.680	12.412	-45.157	-13	-32.157
5120.00	-63.550	V	-59.330	5.072	12.216	-52.186	-13	-39.186
7680.00	-68.060	V	-51.151	6.680	12.412	-45.419	-13	-32.419

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_QPSK\_50RB252\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-62.260	H	-58.435	5.043	12.036	-51.442	-13	-38.442
7530.00	-68.980	H	-52.809	6.478	12.277	-47.010	-13	-34.010
5020.00	-60.870	V	-56.580	5.043	12.036	-49.587	-13	-36.587
7530.00	-69.460	V	-53.018	6.478	12.277	-47.219	-13	-34.219
Middle Channel 21100 (2535.00MHz)								
5070.00	-64.750	H	-60.888	5.057	12.126	-53.819	-13	-40.819
7605.00	-68.590	H	-52.060	6.579	12.345	-46.294	-13	-33.294
5070.00	-60.990	V	-56.735	5.057	12.126	-49.666	-13	-36.666
7605.00	-68.720	V	-52.045	6.579	12.345	-46.279	-13	-33.279
High Channel 21350 (2560.00MHz)								
5120.00	-64.880	H	-60.980	5.072	12.216	-53.836	-13	-40.836
7680.00	-68.210	H	-51.319	6.680	12.412	-45.587	-13	-32.587
5120.00	-63.590	V	-59.370	5.072	12.216	-52.226	-13	-39.226
7680.00	-67.780	V	-50.871	6.680	12.412	-45.139	-13	-32.139

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_QPSK\_50RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-61.180	H	-56.890	5.043	12.036	-49.897	-13	-36.897
7530.00	-69.120	H	-52.949	6.478	12.277	-47.150	-13	-34.150
5020.00	-61.620	V	-57.330	5.043	12.036	-50.337	-13	-37.337
7530.00	-69.010	V	-52.568	6.478	12.277	-46.769	-13	-33.769
Middle Channel 21100 (2535.00MHz)								
5070.00	-64.440	H	-60.578	5.057	12.126	-53.509	-13	-40.509
7605.00	-68.730	H	-52.200	6.579	12.345	-46.434	-13	-33.434
5070.00	-61.510	V	-57.255	5.057	12.126	-50.186	-13	-37.186
7605.00	-68.570	V	-51.895	6.579	12.345	-46.129	-13	-33.129
High Channel 21350 (2560.00MHz)								
5120.00	-65.870	H	-61.970	5.072	12.216	-54.826	-13	-41.826
7680.00	-67.960	H	-51.069	6.680	12.412	-45.337	-13	-32.337
5120.00	-63.450	V	-59.230	5.072	12.216	-52.086	-13	-39.086
7680.00	-68.020	V	-51.111	6.680	12.412	-45.379	-13	-32.379

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_QPSK\_100RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-64.450	H	-60.625	5.043	12.036	-53.632	-13	-40.632
7530.00	-69.060	H	-52.889	6.478	12.277	-47.090	-13	-34.090
5020.00	-61.660	V	-57.370	5.043	12.036	-50.377	-13	-37.377
7530.00	-69.530	V	-53.088	6.478	12.277	-47.289	-13	-34.289
Middle Channel 21100 (2535.00MHz)								
5070.00	-65.190	H	-61.328	5.057	12.126	-54.259	-13	-41.259
7605.00	-68.450	H	-51.920	6.579	12.345	-46.154	-13	-33.154
5070.00	-62.700	V	-58.445	5.057	12.126	-51.376	-13	-38.376
7605.00	-68.570	V	-51.895	6.579	12.345	-46.129	-13	-33.129
High Channel 21350 (2560.00MHz)								
5120.00	-65.920	H	-62.020	5.072	12.216	-54.876	-13	-41.876
7680.00	-67.030	H	-50.139	6.680	12.412	-44.407	-13	-31.407
5120.00	-62.860	V	-58.640	5.072	12.216	-51.496	-13	-38.496
7680.00	-67.740	V	-50.831	6.680	12.412	-45.099	-13	-32.099

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-56.790	H	-52.965	5.043	12.036	-45.972	-13	-32.972
7530.00	-68.860	H	-52.689	6.478	12.277	-46.890	-13	-33.890
5020.00	-56.310	V	-52.020	5.043	12.036	-45.027	-13	-32.027
7530.00	-68.570	V	-52.128	6.478	12.277	-46.329	-13	-33.329
Middle Channel 21100 (2535.00MHz)								
5070.00	-66.140	H	-62.278	5.057	12.126	-55.209	-13	-42.209
7605.00	-68.560	H	-52.030	6.579	12.345	-46.264	-13	-33.264
5070.00	-66.440	V	-62.185	5.057	12.126	-55.116	-13	-42.116
7605.00	-68.250	V	-51.575	6.579	12.345	-45.809	-13	-32.809
High Channel 21350 (2560.00MHz)								
5120.00	-66.380	H	-62.480	5.072	12.216	-55.336	-13	-42.336
7680.00	-68.170	H	-51.279	6.680	12.412	-45.547	-13	-32.547
5120.00	-66.430	V	-62.210	5.072	12.216	-55.066	-13	-42.066
7680.00	-68.570	V	-51.661	6.680	12.412	-45.929	-13	-32.929

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_16-QAM\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-57.290	H	-53.465	5.043	12.036	-46.472	-13	-33.472
7530.00	-69.500	H	-53.329	6.478	12.277	-47.530	-13	-34.530
5020.00	-56.640	V	-52.350	5.043	12.036	-45.357	-13	-32.357
7530.00	-68.580	V	-52.138	6.478	12.277	-46.339	-13	-33.339
Middle Channel 21100 (2535.00MHz)								
5070.00	-66.410	H	-62.548	5.057	12.126	-55.479	-13	-42.479
7605.00	-68.470	H	-51.940	6.579	12.345	-46.174	-13	-33.174
5070.00	-66.120	V	-61.865	5.057	12.126	-54.796	-13	-41.796
7605.00	-68.300	V	-51.625	6.579	12.345	-45.859	-13	-32.859
High Channel 21350 (2560.00MHz)								
5120.00	-66.380	H	-62.480	5.072	12.216	-55.336	-13	-42.336
7680.00	-67.870	H	-50.979	6.680	12.412	-45.247	-13	-32.247
5120.00	-66.490	V	-62.270	5.072	12.216	-55.126	-13	-42.126
7680.00	-67.520	V	-50.611	6.680	12.412	-44.879	-13	-31.879

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_16-QAM\_1RB99\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-58.320	H	-54.495	5.043	12.036	-47.502	-13	-34.502
7530.00	-69.150	H	-52.979	6.478	12.277	-47.180	-13	-34.180
5020.00	-59.380	V	-55.090	5.043	12.036	-48.097	-13	-35.097
7530.00	-69.380	V	-52.938	6.478	12.277	-47.139	-13	-34.139
Middle Channel 21100 (2535.00MHz)								
5070.00	-66.410	H	-62.548	5.057	12.126	-55.479	-13	-42.479
7605.00	-68.470	H	-51.940	6.579	12.345	-46.174	-13	-33.174
5070.00	-66.510	V	-62.648	5.057	12.126	-55.579	-13	-42.579
7605.00	-67.740	V	-51.210	6.579	12.345	-45.444	-13	-32.444
High Channel 21350 (2560.00MHz)								
5120.00	-66.470	H	-62.570	5.072	12.216	-55.426	-13	-42.426
7680.00	-68.150	H	-51.259	6.680	12.412	-45.527	-13	-32.527
5120.00	-66.780	V	-62.560	5.072	12.216	-55.416	-13	-42.416
7680.00	-67.840	V	-50.931	6.680	12.412	-45.199	-13	-32.199



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_16-QAM\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-62.380	H	-58.555	5.043	12.036	-51.562	-13	-38.562
7530.00	-69.360	H	-53.189	6.478	12.277	-47.390	-13	-34.390
5020.00	-59.860	V	-55.570	5.043	12.036	-48.577	-13	-35.577
7530.00	-68.910	V	-52.468	6.478	12.277	-46.669	-13	-33.669
Middle Channel 21100 (2535.00MHz)								
5070.00	-65.140	H	-61.278	5.057	12.126	-54.209	-13	-41.209
7605.00	-68.530	H	-52.000	6.579	12.345	-46.234	-13	-33.234
5070.00	-63.290	V	-59.035	5.057	12.126	-51.966	-13	-38.966
7605.00	-68.420	V	-51.745	6.579	12.345	-45.979	-13	-32.979
High Channel 21350 (2560.00MHz)								
5120.00	-64.770	H	-60.870	5.072	12.216	-53.726	-13	-40.726
7680.00	-67.990	H	-51.099	6.680	12.412	-45.367	-13	-32.367
5120.00	-65.080	V	-60.860	5.072	12.216	-53.716	-13	-40.716
7680.00	-67.960	V	-51.051	6.680	12.412	-45.319	-13	-32.319

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_16-QAM\_50RB25\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-62.920	H	-59.095	5.043	12.036	-52.102	-13	-39.102
7530.00	-68.960	H	-52.789	6.478	12.277	-46.990	-13	-33.990
5020.00	-61.150	V	-56.860	5.043	12.036	-49.867	-13	-36.867
7530.00	-69.610	V	-53.168	6.478	12.277	-47.369	-13	-34.369
Middle Channel 21100 (2535.00MHz)								
5070.00	-66.200	H	-62.338	5.057	12.126	-55.269	-13	-42.269
7605.00	-68.990	H	-52.460	6.579	12.345	-46.694	-13	-33.694
5070.00	-63.550	V	-59.295	5.057	12.126	-52.226	-13	-39.226
7605.00	-67.830	V	-51.155	6.579	12.345	-45.389	-13	-32.389
High Channel 21350 (2560.00MHz)								
5120.00	-65.230	H	-61.330	5.072	12.216	-54.186	-13	-41.186
7680.00	-67.810	H	-50.919	6.680	12.412	-45.187	-13	-32.187
5120.00	-64.620	V	-60.400	5.072	12.216	-53.256	-13	-40.256
7680.00	-67.580	V	-50.671	6.680	12.412	-44.939	-13	-31.939

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE\_B7\_20M\_16-QAM\_50RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-63.620	H	-59.795	5.043	12.036	-52.802	-13	-39.802
7530.00	-69.450	H	-53.279	6.478	12.277	-47.480	-13	-34.480
5020.00	-61.720	V	-57.430	5.043	12.036	-50.437	-13	-37.437
7530.00	-68.940	V	-52.498	6.478	12.277	-46.699	-13	-33.699
Middle Channel 21100 (2535.00MHz)								
5070.00	-65.530	H	-61.668	5.057	12.126	-54.599	-13	-41.599
7605.00	-67.710	H	-51.180	6.579	12.345	-45.414	-13	-32.414
5070.00	-63.800	V	-59.545	5.057	12.126	-52.476	-13	-39.476
7605.00	-67.690	V	-51.015	6.579	12.345	-45.249	-13	-32.249
High Channel 21350 (2560.00MHz)								
5120.00	-65.230	H	-61.330	5.072	12.216	-54.186	-13	-41.186
7680.00	-68.400	H	-51.509	6.680	12.412	-45.777	-13	-32.777
5120.00	-63.290	V	-59.070	5.072	12.216	-51.926	-13	-38.926
7680.00	-67.760	V	-50.851	6.680	12.412	-45.119	-13	-32.119

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: LTE Band 7		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B7\_20M\_16-QAM\_100RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20850 (2510.00MHz)								
5020.00	-63.770	H	-59.945	5.043	12.036	-52.952	-13	-39.952
7530.00	-69.240	H	-53.069	6.478	12.277	-47.270	-13	-34.270
5020.00	-61.950	V	-57.660	5.043	12.036	-50.667	-13	-37.667
7530.00	-69.430	V	-52.988	6.478	12.277	-47.189	-13	-34.189
Middle Channel 21100 (2535.00MHz)								
5070.00	-65.680	H	-61.818	5.057	12.126	-54.749	-13	-41.749
7605.00	-66.680	H	-50.150	6.579	12.345	-44.384	-13	-31.384
5070.00	-64.450	V	-60.195	5.057	12.126	-53.126	-13	-40.126
7605.00	-67.820	V	-51.145	6.579	12.345	-45.379	-13	-32.379
High Channel 21350 (2560.00MHz)								
5120.00	-64.940	H	-61.040	5.072	12.216	-53.896	-13	-40.896
7680.00	-67.220	H	-50.329	6.680	12.412	-44.597	-13	-31.597
5120.00	-63.400	V	-59.180	5.072	12.216	-52.036	-13	-39.036
7680.00	-68.000	V	-51.091	6.680	12.412	-45.359	-13	-32.359

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_QPSK\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-54.030	H	-58.100	2.572	7.817	-52.855	-13	-39.855
2099.10	-62.880	H	-67.412	3.179	9.959	-60.632	-13	-47.632
1399.40	-49.090	V	-54.530	2.572	7.817	-49.285	-13	-36.285
2099.10	-62.680	V	-68.009	3.179	9.959	-61.229	-13	-48.229
Middle Channel 23095 (707.50MHz)								
1415.00	-56.340	H	-60.487	2.585	7.892	-55.180	-13	-42.180
2122.50	-62.920	H	-66.963	3.195	9.996	-60.162	-13	-47.162
1415.00	-51.220	V	-56.770	2.585	7.892	-51.463	-13	-38.463
2122.50	-62.350	V	-67.265	3.195	9.996	-60.464	-13	-47.464
High Channel 23173 (715.30MHz)								
1430.60	-52.050	H	-56.274	2.598	7.967	-50.905	-13	-37.905
2145.90	-59.690	H	-63.244	3.211	10.033	-56.422	-13	-43.422
1430.60	-45.100	V	-49.324	2.598	7.967	-43.955	-13	-30.955
2145.90	-52.500	V	-57.000	3.211	10.033	-50.178	-13	-37.178

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_QPSK\_1RB2\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-49.290	H	-53.360	2.572	7.817	-48.115	-13	-35.115
2099.10	-63.390	H	-67.922	3.179	9.959	-61.142	-13	-48.142
1399.40	-49.140	V	-54.580	2.572	7.817	-49.335	-13	-36.335
2099.10	-62.980	V	-68.309	3.179	9.959	-61.529	-13	-48.529
Middle Channel 23095 (707.50MHz)								
1415.00	-56.440	H	-60.587	2.585	7.892	-55.280	-13	-42.280
2122.50	-62.470	H	-66.513	3.195	9.996	-59.712	-13	-46.712
1415.00	-52.530	V	-58.080	2.585	7.892	-52.773	-13	-39.773
2122.50	-59.800	V	-64.715	3.195	9.996	-57.914	-13	-44.914
High Channel 23173 (715.30MHz)								
1430.60	-51.270	H	-55.494	2.598	7.967	-50.125	-13	-37.125
2145.90	-60.010	H	-63.564	3.211	10.033	-56.742	-13	-43.742
1430.60	-45.230	V	-50.891	2.598	7.967	-45.522	-13	-32.522
2145.90	-52.030	V	-56.530	3.211	10.033	-49.708	-13	-36.708

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_QPSK\_1RB5\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-48.630	H	-52.700	2.572	7.817	-47.455	-13	-34.455
2009.10	-62.640	H	-69.053	3.116	9.815	-62.355	-13	-49.355
1399.40	-47.900	V	-53.340	2.572	7.817	-48.095	-13	-35.095
2099.10	-63.330	V	-68.659	3.179	9.959	-61.879	-13	-48.879
Middle Channel 23095 (707.50MHz)								
1415.00	-58.150	H	-62.297	2.585	7.892	-56.990	-13	-43.990
2122.50	-56.550	H	-60.593	3.195	9.996	-53.792	-13	-40.792
1415.00	-53.040	V	-58.590	2.585	7.892	-53.283	-13	-40.283
2122.50	-57.590	V	-61.633	3.195	9.996	-54.832	-13	-41.832
High Channel 23173 (715.30MHz)								
1430.60	-58.060	H	-62.284	2.598	7.967	-56.915	-13	-43.915
2145.90	-59.720	H	-63.274	3.211	10.033	-56.452	-13	-43.452
1430.60	-57.690	V	-63.351	2.598	7.967	-57.982	-13	-44.982
2145.90	-51.210	V	-55.710	3.211	10.033	-48.888	-13	-35.888

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_QPSK\_3RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-48.020	H	-52.090	2.572	7.817	-46.845	-13	-33.845
2099.10	-63.670	H	-68.202	3.179	9.959	-61.422	-13	-48.422
1399.40	-45.360	V	-50.800	2.572	7.817	-45.555	-13	-32.555
2099.10	-61.310	V	-66.639	3.179	9.959	-59.859	-13	-46.859
Middle Channel 23095 (707.50MHz)								
1415.00	-57.230	H	-61.377	2.585	7.892	-56.070	-13	-43.070
2122.50	-62.940	H	-66.983	3.195	9.996	-60.182	-13	-47.182
1415.00	-52.620	V	-58.170	2.585	7.892	-52.863	-13	-39.863
2122.50	-60.220	V	-65.135	3.195	9.996	-58.334	-13	-45.334
High Channel 23173 (715.30MHz)								
1430.60	-52.810	H	-57.034	2.598	7.967	-51.665	-13	-38.665
2145.90	-59.980	H	-63.534	3.211	10.033	-56.712	-13	-43.712
1430.60	-46.590	V	-52.251	2.598	7.967	-46.882	-13	-33.882
2145.90	-52.420	V	-56.920	3.211	10.033	-50.098	-13	-37.098



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_QPSK\_3RB1\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-54.570	H	-58.640	2.572	7.817	-53.395	-13	-40.395
2099.10	-62.890	H	-67.422	3.179	9.959	-60.642	-13	-47.642
1399.40	-46.370	V	-51.810	2.572	7.817	-46.565	-13	-33.565
2099.10	-62.110	V	-67.439	3.179	9.959	-60.659	-13	-47.659
Middle Channel 23095 (707.50MHz)								
1415.00	-57.900	H	-62.047	2.585	7.892	-56.740	-13	-43.740
2122.50	-62.510	H	-66.553	3.195	9.996	-59.752	-13	-46.752
1415.00	-52.340	V	-57.890	2.585	7.892	-52.583	-13	-39.583
2122.50	-60.490	V	-65.405	3.195	9.996	-58.604	-13	-45.604
High Channel 23173 (715.30MHz)								
1415.00	-56.900	H	-61.047	2.585	7.892	-55.740	-13	-42.740
2122.50	-62.000	H	-66.915	3.195	9.996	-60.114	-13	-47.114
1430.60	-52.890	V	-57.114	2.598	7.967	-51.745	-13	-38.745
2145.90	-63.230	V	-66.784	3.211	10.033	-59.962	-13	-46.962

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE B12\_1.4M\_QPSK\_3RB2\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-55.840	H	-59.910	2.572	7.817	-54.665	-13	-41.665
2099.10	-63.320	H	-67.852	3.179	9.959	-61.072	-13	-48.072
1399.40	-47.490	V	-52.930	2.572	7.817	-47.685	-13	-34.685
2099.10	-62.290	V	-67.619	3.179	9.959	-60.839	-13	-47.839
Middle Channel 23095 (707.50MHz)								
1415.00	-56.900	H	-61.047	2.585	7.892	-55.740	-13	-42.740
2122.50	-62.000	H	-66.915	3.195	9.996	-60.114	-13	-47.114
1415.00	-51.960	V	-57.510	2.585	7.892	-52.203	-13	-39.203
2122.50	-60.350	V	-65.265	3.195	9.996	-58.464	-13	-45.464
High Channel 23173 (715.30MHz)								
1430.60	-55.620	H	-59.844	2.598	7.967	-54.475	-13	-41.475
2145.90	-60.530	H	-64.084	3.211	10.033	-57.262	-13	-44.262
1430.60	-49.950	V	-55.611	2.598	7.967	-50.242	-13	-37.242
2145.90	-51.490	V	-55.990	3.211	10.033	-49.168	-13	-36.168

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-53.790	H	-57.860	2.572	7.817	-52.615	-13	-39.615
2099.10	-63.130	H	-67.662	3.179	9.959	-60.882	-13	-47.882
1399.40	-45.650	V	-51.090	2.572	7.817	-45.845	-13	-32.845
2099.10	-61.790	V	-67.119	3.179	9.959	-60.339	-13	-47.339
Middle Channel 23095 (707.50MHz)								
1415.00	-56.990	H	-61.137	2.585	7.892	-55.830	-13	-42.830
2122.50	-63.110	H	-67.153	3.195	9.996	-60.352	-13	-47.352
1415.00	-51.240	V	-56.790	2.585	7.892	-51.483	-13	-38.483
2122.50	-62.350	V	-67.265	3.195	9.996	-60.464	-13	-47.464
High Channel 23173 (715.30MHz)								
1430.60	-51.500	H	-55.724	2.598	7.967	-50.355	-13	-37.355
2145.90	-60.090	H	-63.644	3.211	10.033	-56.822	-13	-43.822
1430.60	-45.190	V	-50.851	2.598	7.967	-45.482	-13	-32.482
2145.90	-53.080	V	-57.580	3.211	10.033	-50.758	-13	-37.758

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE B12\_1.4M\_16-QAM\_1RB2\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-52.290	H	-56.360	2.572	7.817	-51.115	-13	-38.115
2099.10	-62.700	H	-67.232	3.179	9.959	-60.452	-13	-47.452
1399.40	-46.600	V	-52.040	2.572	7.817	-46.795	-13	-33.795
2099.10	-61.980	V	-67.309	3.179	9.959	-60.529	-13	-47.529
Middle Channel 23095 (707.50MHz)								
1415.00	-56.740	H	-60.887	2.585	7.892	-55.580	-13	-42.580
2122.50	-62.750	H	-66.793	3.195	9.996	-59.992	-13	-46.992
1415.00	-52.180	V	-57.730	2.585	7.892	-52.423	-13	-39.423
2122.50	-61.640	V	-66.555	3.195	9.996	-59.754	-13	-46.754
High Channel 23173 (715.30MHz)								
1430.60	-52.040	H	-56.264	2.598	7.967	-50.895	-13	-37.895
2145.90	-61.020	H	-64.574	3.211	10.033	-57.752	-13	-44.752
1430.60	-44.900	V	-50.561	2.598	7.967	-45.192	-13	-32.192
2145.90	-52.030	V	-56.530	3.211	10.033	-49.708	-13	-36.708

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_16-QAM\_1RB5\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-54.640	H	-58.710	2.572	7.817	-53.465	-13	-40.465
2099.10	-63.020	H	-67.552	3.179	9.959	-60.772	-13	-47.772
1399.40	-46.350	V	-51.790	2.572	7.817	-46.545	-13	-33.545
2099.10	-62.520	V	-67.849	3.179	9.959	-61.069	-13	-48.069
Middle Channel 23095 (707.50MHz)								
1415.00	-57.730	H	-61.877	2.585	7.892	-56.570	-13	-43.570
2122.50	-63.210	H	-67.253	3.195	9.996	-60.452	-13	-47.452
1415.00	-53.330	V	-58.880	2.585	7.892	-53.573	-13	-40.573
2122.50	-57.860	V	-62.775	3.195	9.996	-55.974	-13	-42.974
High Channel 23173 (715.30MHz)								
1430.60	-59.040	H	-63.264	2.598	7.967	-57.895	-13	-44.895
2145.90	-58.000	H	-61.554	3.211	10.033	-54.732	-13	-41.732
1430.60	-58.340	V	-64.001	2.598	7.967	-58.632	-13	-45.632
2145.90	-52.050	V	-56.550	3.211	10.033	-49.728	-13	-36.728

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_16-QAM\_3RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-51.310	H	-55.380	2.572	7.817	-50.135	-13	-37.135
2099.10	-62.640	H	-67.172	3.179	9.959	-60.392	-13	-47.392
1399.40	-45.340	V	-50.780	2.572	7.817	-45.535	-13	-32.535
2099.10	-61.930	V	-67.259	3.179	9.959	-60.479	-13	-47.479
Middle Channel 23095 (707.50MHz)								
1415.00	-57.640	H	-61.787	2.585	7.892	-56.480	-13	-43.480
2122.50	-63.820	H	-67.863	3.195	9.996	-61.062	-13	-48.062
1415.00	-52.700	V	-58.250	2.585	7.892	-52.943	-13	-39.943
2122.50	-61.800	V	-66.715	3.195	9.996	-59.914	-13	-46.914
High Channel 23173 (715.30MHz)								
1430.60	-52.050	H	-56.274	2.598	7.967	-50.905	-13	-37.905
2145.90	-59.880	H	-63.434	3.211	10.033	-56.612	-13	-43.612
1430.60	-45.230	V	-50.891	2.598	7.967	-45.522	-13	-32.522
2145.90	-51.340	V	-55.840	3.211	10.033	-49.018	-13	-36.018

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_16-QAM\_3RB1\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-54.600	H	-58.670	2.572	7.817	-53.425	-13	-40.425
2099.10	-62.450	H	-66.982	3.179	9.959	-60.202	-13	-47.202
1399.40	-45.960	V	-51.400	2.572	7.817	-46.155	-13	-33.155
2099.10	-63.020	V	-68.349	3.179	9.959	-61.569	-13	-48.569
Middle Channel 23095 (707.50MHz)								
1415.00	-56.880	H	-61.027	2.585	7.892	-55.720	-13	-42.720
2122.50	-62.650	H	-66.693	3.195	9.996	-59.892	-13	-46.892
1415.00	-52.460	V	-58.010	2.585	7.892	-52.703	-13	-39.703
2122.50	-60.920	V	-65.835	3.195	9.996	-59.034	-13	-46.034
High Channel 23173 (715.30MHz)								
1430.60	-54.170	H	-58.394	2.598	7.967	-53.025	-13	-40.025
2145.90	-62.700	H	-66.254	3.211	10.033	-59.432	-13	-46.432
1430.60	-47.600	V	-53.261	2.598	7.967	-47.892	-13	-34.892
2145.90	-51.520	V	-56.020	3.211	10.033	-49.198	-13	-36.198

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B12\_1.4M\_16-QAM\_3RB2\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-55.620	H	-59.690	2.572	7.817	-54.445	-13	-41.445
2099.10	-62.850	H	-67.382	3.179	9.959	-60.602	-13	-47.602
1399.40	-47.010	V	-52.450	2.572	7.817	-47.205	-13	-34.205
2099.10	-62.930	V	-68.259	3.179	9.959	-61.479	-13	-48.479
Middle Channel 23095 (707.50MHz)								
1415.00	-56.490	H	-60.637	2.585	7.892	-55.330	-13	-42.330
2122.50	-63.050	H	-67.093	3.195	9.996	-60.292	-13	-47.292
1415.00	-51.870	V	-57.420	2.585	7.892	-52.113	-13	-39.113
2122.50	-60.150	V	-65.065	3.195	9.996	-58.264	-13	-45.264
High Channel 23173 (715.30MHz)								
1430.60	-56.050	H	-60.274	2.598	7.967	-54.905	-13	-41.905
2145.90	-63.110	H	-66.664	3.211	10.033	-59.842	-13	-46.842
1430.60	-49.500	V	-55.161	2.598	7.967	-49.792	-13	-36.792
2145.90	-51.850	V	-56.350	3.211	10.033	-49.528	-13	-36.528



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE B12\_1.4M\_16-QAM\_6RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23107 (699.70MHz)								
1399.40	-50.270	H	-54.340	2.572	7.817	-49.095	-13	-36.095
2099.10	-63.390	H	-67.922	3.179	9.959	-61.142	-13	-48.142
1399.40	-47.260	V	-52.700	2.572	7.817	-47.455	-13	-34.455
2099.10	-62.510	V	-67.839	3.179	9.959	-61.059	-13	-48.059
Middle Channel 23095 (707.50MHz)								
1415.00	-58.360	H	-62.507	2.585	7.892	-57.200	-13	-44.200
2122.50	-62.900	H	-66.943	3.195	9.996	-60.142	-13	-47.142
1415.00	-53.450	V	-59.000	2.585	7.892	-53.693	-13	-40.693
2122.50	-61.930	V	-66.845	3.195	9.996	-60.044	-13	-47.044
High Channel 23173 (715.30MHz)								
1430.60	-55.950	H	-60.174	2.598	7.967	-54.805	-13	-41.805
2145.90	-62.520	H	-66.074	3.211	10.033	-59.252	-13	-46.252
1430.60	-48.490	V	-54.151	2.598	7.967	-48.782	-13	-35.782
2145.90	-53.540	V	-58.040	3.211	10.033	-51.218	-13	-38.218

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: LTE Band 12		
Date of Test	2018/04/17	Test Site	CB4-H

LTE\_B5\_10M\_16-QAM\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 20450 (829.00MHz)								
1658.00	-61.360	H	-67.390	2.799	8.774	-61.415	-13	-48.415
2487.00	-63.540	H	-66.405	3.447	10.579	-59.273	-13	-46.273
1658.00	-61.110	V	-68.308	2.799	8.774	-62.333	-13	-49.333
2487.00	-62.920	V	-66.560	3.447	10.579	-59.428	-13	-46.428
Middle Channel 20525 (836.50MHz)								
1673.00	-60.730	H	-66.901	2.812	8.819	-60.894	-13	-47.894
2509.50	-63.300	H	-66.195	3.463	10.608	-59.050	-13	-46.050
1673.00	-60.130	V	-67.430	2.812	8.819	-61.423	-13	-48.423
2509.50	-62.870	V	-66.494	3.463	10.608	-59.349	-13	-46.349
High Channel 20600 (844.00MHz)								
1688.00	-60.050	H	-66.361	2.826	8.864	-60.323	-13	-47.323
2532.00	-62.440	H	-65.283	3.479	10.626	-58.136	-13	-45.136
1688.00	-60.130	V	-67.530	2.826	8.864	-61.492	-13	-48.492
2532.00	-63.370	V	-66.898	3.479	10.626	-59.751	-13	-46.751

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.030	H	-66.143	2.709	8.477	-60.375	-13	-47.375
2338.50	-62.280	H	-64.227	3.344	10.342	-57.230	-13	-44.230
1559.00	-60.720	V	-67.263	2.709	8.477	-61.495	-13	-48.495
2338.50	-62.400	V	-65.435	3.344	10.342	-58.438	-13	-45.438
Middle Channel 23230 (782.00MHz)								
1564.00	-61.200	H	-66.360	2.713	8.492	-60.581	-13	-47.581
2346.00	-63.270	H	-65.264	3.349	10.354	-58.260	-13	-45.260
1564.00	-60.840	V	-67.417	2.713	8.492	-61.638	-13	-48.638
2346.00	-62.200	V	-65.266	3.349	10.354	-58.262	-13	-45.262
High Channel 23255 (784.50MHz)								
1569.00	-61.050	H	-66.255	2.718	8.507	-60.466	-13	-47.466
2353.50	-62.840	H	-64.881	3.355	10.366	-57.870	-13	-44.870
1569.00	-60.640	V	-67.249	2.718	8.507	-61.460	-13	-48.460
2353.50	-63.150	V	-66.247	3.355	10.366	-59.236	-13	-46.236

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_1RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-60.810	H	-65.923	2.709	8.477	-60.155	-13	-47.155
2338.50	-63.610	H	-65.557	3.344	10.342	-58.560	-13	-45.560
1559.00	-60.970	V	-67.513	2.709	8.477	-61.745	-13	-48.745
2338.50	-62.890	V	-65.925	3.344	10.342	-58.928	-13	-45.928
Middle Channel 23230 (782.00MHz)								
1534.00	-60.200	H	-65.082	2.686	8.402	-59.366	-13	-46.366
2346.00	-61.860	H	-63.854	3.349	10.354	-56.850	-13	-43.850
1564.00	-60.040	V	-66.617	2.713	8.492	-60.838	-13	-47.838
2346.00	-62.830	V	-65.896	3.349	10.354	-58.892	-13	-45.892
High Channel 23255 (784.50MHz)								
1569.00	-61.090	H	-66.295	2.718	8.507	-60.506	-13	-47.506
2353.50	-63.670	H	-65.711	3.355	10.366	-58.700	-13	-45.700
1569.00	-61.020	V	-67.629	2.718	8.507	-61.840	-13	-48.840
2353.50	-63.050	V	-66.147	3.355	10.366	-59.136	-13	-46.136

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-60.870	H	-65.983	2.709	8.477	-60.215	-13	-47.215
2338.50	-63.090	H	-65.037	3.344	10.342	-58.040	-13	-45.040
1559.00	-60.820	V	-67.363	2.709	8.477	-61.595	-13	-48.595
2338.50	-61.800	V	-64.835	3.344	10.342	-57.838	-13	-44.838
Middle Channel 23230 (782.00MHz)								
1564.00	-61.140	H	-66.300	2.713	8.492	-60.521	-13	-47.521
2346.00	-63.390	H	-65.384	3.349	10.354	-58.380	-13	-45.380
1564.00	-60.740	V	-67.317	2.713	8.492	-61.538	-13	-48.538
2346.00	-63.010	V	-66.076	3.349	10.354	-59.072	-13	-46.072
High Channel 23255 (784.50MHz)								
1569.00	-59.980	H	-65.185	2.718	8.507	-59.396	-13	-46.396
2353.50	-63.600	H	-65.641	3.355	10.366	-58.630	-13	-45.630
1569.00	-61.050	V	-67.659	2.718	8.507	-61.870	-13	-48.870
2353.50	-62.800	V	-65.897	3.355	10.366	-58.886	-13	-45.886

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_12RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-60.800	H	-65.913	2.709	8.477	-60.145	-13	-47.145
2338.50	-63.240	H	-65.187	3.344	10.342	-58.190	-13	-45.190
1559.00	-60.900	V	-67.443	2.709	8.477	-61.675	-13	-48.675
2338.50	-63.020	V	-66.055	3.344	10.342	-59.058	-13	-46.058
Middle Channel 23230 (782.00MHz)								
1564.00	-61.050	H	-66.210	2.713	8.492	-60.431	-13	-47.431
2346.00	-63.540	H	-65.534	3.349	10.354	-58.530	-13	-45.530
1564.00	-60.620	V	-67.197	2.713	8.492	-61.418	-13	-48.418
2346.00	-62.990	V	-66.056	3.349	10.354	-59.052	-13	-46.052
High Channel 23255 (784.50MHz)								
1569.00	-60.590	H	-65.795	2.718	8.507	-60.006	-13	-47.006
2353.50	-63.150	H	-65.191	3.355	10.366	-58.180	-13	-45.180
1569.00	-60.730	V	-67.339	2.718	8.507	-61.550	-13	-48.550
2353.50	-63.610	V	-66.707	3.355	10.366	-59.696	-13	-46.696

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_12RB6\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.040	H	-66.153	2.709	8.477	-60.385	-13	-47.385
2338.50	-63.540	H	-65.487	3.344	10.342	-58.490	-13	-45.490
1559.00	-60.460	V	-67.003	2.709	8.477	-61.235	-13	-48.235
2338.50	-62.900	V	-65.935	3.344	10.342	-58.938	-13	-45.938
Middle Channel 23230 (782.00MHz)								
1564.00	-60.550	H	-65.710	2.713	8.492	-59.931	-13	-46.931
2346.00	-62.970	H	-64.964	3.349	10.354	-57.960	-13	-44.960
1564.00	-59.960	V	-66.537	2.713	8.492	-60.758	-13	-47.758
2346.00	-63.040	V	-66.106	3.349	10.354	-59.102	-13	-46.102
High Channel 23255 (784.50MHz)								
1569.00	-61.100	H	-66.305	2.718	8.507	-60.516	-13	-47.516
2353.50	-63.610	H	-65.651	3.355	10.366	-58.640	-13	-45.640
1569.00	-60.700	V	-67.309	2.718	8.507	-61.520	-13	-48.520
2353.50	-62.890	V	-65.987	3.355	10.366	-58.976	-13	-45.976

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_12RB11\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.270	H	-66.383	2.709	8.477	-60.615	-13	-47.615
2338.50	-62.670	H	-64.617	3.344	10.342	-57.620	-13	-44.620
1559.00	-61.030	V	-67.573	2.709	8.477	-61.805	-13	-48.805
2338.50	-63.210	V	-66.245	3.344	10.342	-59.248	-13	-46.248
Middle Channel 23230 (782.00MHz)								
1564.00	-60.740	H	-65.900	2.713	8.492	-60.121	-13	-47.121
2346.00	-63.120	H	-65.114	3.349	10.354	-58.110	-13	-45.110
1564.00	-60.590	V	-67.167	2.713	8.492	-61.388	-13	-48.388
2346.00	-63.030	V	-66.096	3.349	10.354	-59.092	-13	-46.092
High Channel 23255 (784.50MHz)								
1569.00	-61.190	H	-66.395	2.718	8.507	-60.606	-13	-47.606
2353.50	-63.650	H	-65.691	3.355	10.366	-58.680	-13	-45.680
1569.00	-60.450	V	-67.059	2.718	8.507	-61.270	-13	-48.270
2353.50	-63.340	V	-66.437	3.355	10.366	-59.426	-13	-46.426



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_QPSK\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.200	H	-66.313	2.709	8.477	-60.545	-13	-47.545
2338.50	-62.830	H	-64.777	3.344	10.342	-57.780	-13	-44.780
1559.00	-60.700	V	-67.243	2.709	8.477	-61.475	-13	-48.475
2338.50	-63.110	V	-66.145	3.344	10.342	-59.148	-13	-46.148
Middle Channel 23230 (782.00MHz)								
1564.00	-61.170	H	-66.330	2.713	8.492	-60.551	-13	-47.551
2346.00	-63.860	H	-65.854	3.349	10.354	-58.850	-13	-45.850
1564.00	-60.220	V	-66.797	2.713	8.492	-61.018	-13	-48.018
2346.00	-62.480	V	-65.546	3.349	10.354	-58.542	-13	-45.542
High Channel 23255 (784.50MHz)								
1569.00	-61.150	H	-66.355	2.718	8.507	-60.566	-13	-47.566
2353.50	-62.880	H	-64.921	3.355	10.366	-57.910	-13	-44.910
1569.00	-60.310	V	-66.919	2.718	8.507	-61.130	-13	-48.130
2353.50	-62.980	V	-66.077	3.355	10.366	-59.066	-13	-46.066

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-60.830	H	-65.943	2.709	8.477	-60.175	-13	-47.175
2338.50	-62.950	H	-64.897	3.344	10.342	-57.900	-13	-44.900
1559.00	-61.300	V	-67.843	2.709	8.477	-62.075	-13	-49.075
2338.50	-63.110	V	-66.145	3.344	10.342	-59.148	-13	-46.148
Middle Channel 23230 (782.00MHz)								
1564.00	-60.610	H	-65.770	2.713	8.492	-59.991	-13	-46.991
2346.00	-63.120	H	-65.114	3.349	10.354	-58.110	-13	-45.110
1564.00	-60.800	V	-67.377	2.713	8.492	-61.598	-13	-48.598
2346.00	-63.260	V	-66.326	3.349	10.354	-59.322	-13	-46.322
High Channel 23255 (784.50MHz)								
1569.00	-60.640	H	-65.845	2.718	8.507	-60.056	-13	-47.056
2353.50	-63.300	H	-65.341	3.355	10.366	-58.330	-13	-45.330
1569.00	-60.190	V	-66.799	2.718	8.507	-61.010	-13	-48.010
2353.50	-62.490	V	-65.587	3.355	10.366	-58.576	-13	-45.576

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_16-QAM\_1RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.300	H	-66.413	2.709	8.477	-60.645	-13	-47.645
2338.50	-63.140	H	-65.087	3.344	10.342	-58.090	-13	-45.090
1559.00	-60.650	V	-67.193	2.709	8.477	-61.425	-13	-48.425
2338.50	-63.430	V	-66.465	3.344	10.342	-59.468	-13	-46.468
Middle Channel 23230 (782.00MHz)								
1564.00	-61.020	H	-66.180	2.713	8.492	-60.401	-13	-47.401
2346.00	-63.170	H	-65.164	3.349	10.354	-58.160	-13	-45.160
1564.00	-60.440	V	-67.017	2.713	8.492	-61.238	-13	-48.238
2346.00	-63.230	V	-66.296	3.349	10.354	-59.292	-13	-46.292
High Channel 23255 (784.50MHz)								
1569.00	-60.100	H	-65.305	2.718	8.507	-59.516	-13	-46.516
2353.50	-63.530	H	-65.571	3.355	10.366	-58.560	-13	-45.560
1569.00	-59.700	V	-66.309	2.718	8.507	-60.520	-13	-47.520
2353.50	-62.880	V	-65.977	3.355	10.366	-58.966	-13	-45.966

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_16-QAM\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.150	H	-66.263	2.709	8.477	-60.495	-13	-47.495
2338.50	-62.820	H	-64.767	3.344	10.342	-57.770	-13	-44.770
1559.00	-61.130	V	-67.673	2.709	8.477	-61.905	-13	-48.905
2338.50	-63.040	V	-66.075	3.344	10.342	-59.078	-13	-46.078
Middle Channel 23230 (782.00MHz)								
1564.00	-60.510	H	-65.670	2.713	8.492	-59.891	-13	-46.891
2346.00	-63.730	H	-65.724	3.349	10.354	-58.720	-13	-45.720
1564.00	-60.740	V	-67.317	2.713	8.492	-61.538	-13	-48.538
2346.00	-63.380	V	-66.446	3.349	10.354	-59.442	-13	-46.442
High Channel 23255 (784.50MHz)								
1569.00	-60.800	H	-66.005	2.718	8.507	-60.216	-13	-47.216
2353.50	-62.970	H	-65.011	3.355	10.366	-58.000	-13	-45.000
1569.00	-60.310	V	-66.919	2.718	8.507	-61.130	-13	-48.130
2353.50	-62.310	V	-65.407	3.355	10.366	-58.396	-13	-45.396

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_16-QAM\_12RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.010	H	-66.123	2.709	8.477	-60.355	-13	-47.355
2338.50	-63.260	H	-65.207	3.344	10.342	-58.210	-13	-45.210
1559.00	-60.870	V	-67.413	2.709	8.477	-61.645	-13	-48.645
2338.50	-63.220	V	-66.255	3.344	10.342	-59.258	-13	-46.258
Middle Channel 23230 (782.00MHz)								
1564.00	-60.560	H	-65.720	2.713	8.492	-59.941	-13	-46.941
2346.00	-63.350	H	-65.344	3.349	10.354	-58.340	-13	-45.340
1564.00	-60.850	V	-67.427	2.713	8.492	-61.648	-13	-48.648
2346.00	-62.890	V	-65.956	3.349	10.354	-58.952	-13	-45.952
High Channel 23255 (784.50MHz)								
1569.00	-60.730	H	-65.935	2.718	8.507	-60.146	-13	-47.146
2353.50	-62.890	H	-64.931	3.355	10.366	-57.920	-13	-44.920
1569.00	-60.670	V	-67.279	2.718	8.507	-61.490	-13	-48.490
2353.50	-63.000	V	-66.097	3.355	10.366	-59.086	-13	-46.086

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_16-QAM\_12RB6\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.140	H	-66.253	2.709	8.477	-60.485	-13	-47.485
2338.50	-63.250	H	-65.197	3.344	10.342	-58.200	-13	-45.200
1559.00	-60.800	V	-67.343	2.709	8.477	-61.575	-13	-48.575
2338.50	-62.970	V	-66.005	3.344	10.342	-59.008	-13	-46.008
Middle Channel 23230 (782.00MHz)								
1564.00	-61.000	H	-66.160	2.713	8.492	-60.381	-13	-47.381
2346.00	-63.450	H	-65.444	3.349	10.354	-58.440	-13	-45.440
1564.00	-60.770	V	-67.347	2.713	8.492	-61.568	-13	-48.568
2346.00	-63.310	V	-66.376	3.349	10.354	-59.372	-13	-46.372
High Channel 23255 (784.50MHz)								
1569.00	-60.360	H	-65.565	2.718	8.507	-59.776	-13	-46.776
2353.50	-62.700	H	-64.741	3.355	10.366	-57.730	-13	-44.730
1569.00	-60.440	V	-67.049	2.718	8.507	-61.260	-13	-48.260
2353.50	-62.770	V	-65.867	3.355	10.366	-58.856	-13	-45.856

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE B13\_5M\_16-QAM\_12RB11\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-61.370	H	-66.483	2.709	8.477	-60.715	-13	-47.715
2338.50	-63.570	H	-65.517	3.344	10.342	-58.520	-13	-45.520
1559.00	-61.210	V	-67.753	2.709	8.477	-61.985	-13	-48.985
2338.50	-62.800	V	-65.835	3.344	10.342	-58.838	-13	-45.838
Middle Channel 23230 (782.00MHz)								
1564.00	-60.540	H	-65.700	2.713	8.492	-59.921	-13	-46.921
2346.00	-63.630	H	-65.624	3.349	10.354	-58.620	-13	-45.620
1564.00	-60.670	V	-67.247	2.713	8.492	-61.468	-13	-48.468
2346.00	-63.160	V	-66.226	3.349	10.354	-59.222	-13	-46.222
High Channel 23255 (784.50MHz)								
1569.00	-59.800	H	-65.005	2.718	8.507	-59.216	-13	-46.216
2353.50	-63.510	H	-65.551	3.355	10.366	-58.540	-13	-45.540
1569.00	-60.550	V	-67.159	2.718	8.507	-61.370	-13	-48.370
2353.50	-62.760	V	-65.857	3.355	10.366	-58.846	-13	-45.846

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_5M\_16-QAM\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23205 (779.50MHz)								
1559.00	-60.990	H	-66.103	2.709	8.477	-60.335	-13	-47.335
2338.50	-63.130	H	-65.077	3.344	10.342	-58.080	-13	-45.080
1559.00	-60.850	V	-67.393	2.709	8.477	-61.625	-13	-48.625
2338.50	-63.140	V	-66.175	3.344	10.342	-59.178	-13	-46.178
Middle Channel 23230 (782.00MHz)								
1564.00	-61.100	H	-66.260	2.713	8.492	-60.481	-13	-47.481
2346.00	-62.780	H	-64.774	3.349	10.354	-57.770	-13	-44.770
1564.00	-60.430	V	-67.007	2.713	8.492	-61.228	-13	-48.228
2346.00	-62.880	V	-65.946	3.349	10.354	-58.942	-13	-45.942
High Channel 23255 (784.50MHz)								
1569.00	-60.700	H	-65.905	2.718	8.507	-60.116	-13	-47.116
2353.50	-63.050	H	-65.091	3.355	10.366	-58.080	-13	-45.080
1569.00	-60.510	V	-67.119	2.718	8.507	-61.330	-13	-48.330
2353.50	-62.870	V	-65.967	3.355	10.366	-58.956	-13	-45.956



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-59.500	H	-64.660	2.713	8.492	-58.881	-13	-45.881
2346.00	-63.440	H	-65.434	3.349	10.354	-58.430	-13	-45.430
1564.00	-60.230	V	-66.807	2.713	8.492	-61.028	-13	-48.028
2346.00	-60.260	V	-63.326	3.349	10.354	-56.322	-13	-43.322

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.860	H	-66.020	2.713	8.492	-60.241	-13	-47.241
2346.00	-63.720	H	-65.714	3.349	10.354	-58.710	-13	-45.710
1564.00	-60.540	V	-67.117	2.713	8.492	-61.338	-13	-48.338
2346.00	-62.800	V	-65.866	3.349	10.354	-58.862	-13	-45.862

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.320	H	-65.480	2.713	8.492	-59.701	-13	-46.701
2346.00	-62.880	H	-64.874	3.349	10.354	-57.870	-13	-44.870
1564.00	-59.870	V	-66.447	2.713	8.492	-60.668	-13	-47.668
2346.00	-62.180	V	-65.246	3.349	10.354	-58.242	-13	-45.242

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.580	H	-65.740	2.713	8.492	-59.961	-13	-46.961
2346.00	-63.180	H	-65.174	3.349	10.354	-58.170	-13	-45.170
1564.00	-59.870	V	-66.447	2.713	8.492	-60.668	-13	-47.668
2346.00	-62.710	V	-65.776	3.349	10.354	-58.772	-13	-45.772

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.880	H	-66.040	2.713	8.492	-60.261	-13	-47.261
2346.00	-63.360	H	-65.354	3.349	10.354	-58.350	-13	-45.350
1564.00	-60.310	V	-66.887	2.713	8.492	-61.108	-13	-48.108
2346.00	-62.740	V	-65.806	3.349	10.354	-58.802	-13	-45.802

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.210	H	-65.370	2.713	8.492	-59.591	-13	-46.591
2346.00	-63.240	H	-65.234	3.349	10.354	-58.230	-13	-45.230
1564.00	-60.680	V	-67.257	2.713	8.492	-61.478	-13	-48.478
2346.00	-62.640	V	-65.706	3.349	10.354	-58.702	-13	-45.702

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_QPSK\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.680	H	-65.840	2.713	8.492	-60.061	-13	-47.061
2346.00	-63.230	H	-65.224	3.349	10.354	-58.220	-13	-45.220
1564.00	-60.630	V	-67.207	2.713	8.492	-61.428	-13	-48.428
2346.00	-62.880	V	-65.946	3.349	10.354	-58.942	-13	-45.942

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.110	H	-65.270	2.713	8.492	-59.491	-13	-46.491
2346.00	-63.800	H	-65.794	3.349	10.354	-58.790	-13	-45.790
1564.00	-60.890	V	-67.467	2.713	8.492	-61.688	-13	-48.688
2346.00	-62.640	V	-65.706	3.349	10.354	-58.702	-13	-45.702



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.180	H	-65.340	2.713	8.492	-59.561	-13	-46.561
2346.00	-63.680	H	-65.674	3.349	10.354	-58.670	-13	-45.670
1564.00	-60.710	V	-67.287	2.713	8.492	-61.508	-13	-48.508
2346.00	-63.250	V	-66.316	3.349	10.354	-59.312	-13	-46.312

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.730	H	-65.890	2.713	8.492	-60.111	-13	-47.111
2346.00	-62.780	H	-64.774	3.349	10.354	-57.770	-13	-44.770
1564.00	-60.120	V	-66.697	2.713	8.492	-60.918	-13	-47.918
2346.00	-62.750	V	-65.816	3.349	10.354	-58.812	-13	-45.812

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-61.110	H	-66.270	2.713	8.492	-60.491	-13	-47.491
2346.00	-63.760	H	-65.754	3.349	10.354	-58.750	-13	-45.750
1564.00	-61.100	V	-67.677	2.713	8.492	-61.898	-13	-48.898
2346.00	-63.080	V	-66.146	3.349	10.354	-59.142	-13	-46.142

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.800	H	-65.960	2.713	8.492	-60.181	-13	-47.181
2346.00	-63.630	H	-65.624	3.349	10.354	-58.620	-13	-45.620
1564.00	-60.930	V	-67.507	2.713	8.492	-61.728	-13	-48.728
2346.00	-63.400	V	-66.466	3.349	10.354	-59.462	-13	-46.462

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-60.440	H	-65.600	2.713	8.492	-59.821	-13	-46.821
2346.00	-63.800	H	-65.794	3.349	10.354	-58.790	-13	-45.790
1564.00	-60.690	V	-67.267	2.713	8.492	-61.488	-13	-48.488
2346.00	-63.230	V	-66.296	3.349	10.354	-59.292	-13	-46.292

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B13\_10M\_16-QAM\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Middle Channel 23230 (782.00MHz)								
1564.00	-61.350	H	-66.510	2.713	8.492	-60.731	-13	-47.731
2346.00	-63.480	H	-65.474	3.349	10.354	-58.470	-13	-45.470
1564.00	-60.710	V	-67.287	2.713	8.492	-61.508	-13	-48.508
2346.00	-63.100	V	-66.166	3.349	10.354	-59.162	-13	-46.162

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_QPSK\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-52.270	H	-56.432	2.588	7.906	-51.113	-13	-38.113
2127.00	-62.150	H	-66.099	3.198	10.003	-59.294	-13	-46.294
1418.00	-50.920	V	-56.492	2.588	7.906	-51.173	-13	-38.173
2127.00	-59.910	V	-64.745	3.198	10.003	-57.940	-13	-44.940
Middle Channel 23790 (710.00MHz)								
1420.00	-54.950	H	-59.122	2.589	7.916	-53.795	-13	-40.795
2130.00	-62.100	H	-65.986	3.200	10.008	-59.178	-13	-46.178
1420.00	-48.820	V	-54.406	2.589	7.916	-49.079	-13	-36.079
2130.00	-62.450	V	-67.232	3.200	10.008	-60.424	-13	-47.424
High Channel 23800 (711.00MHz)								
1422.00	-53.980	H	-58.162	2.591	7.926	-52.827	-13	-39.827
2133.00	-62.080	H	-65.904	3.202	10.013	-59.093	-13	-46.093
1422.00	-48.220	V	-53.820	2.591	7.926	-48.485	-13	-35.485
2133.00	-60.800	V	-65.529	3.202	10.013	-58.718	-13	-45.718

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE B17\_10M\_QPSK\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-58.000	H	-62.162	2.588	7.906	-56.843	-13	-43.843
2127.00	-58.660	H	-62.609	3.198	10.003	-55.804	-13	-42.804
1418.00	-54.470	V	-60.042	2.588	7.906	-54.723	-13	-41.723
2127.00	-50.130	V	-54.965	3.198	10.003	-48.160	-13	-35.160
Middle Channel 23790 (710.00MHz)								
1420.00	-60.700	H	-64.872	2.589	7.916	-59.545	-13	-46.545
2130.00	-62.650	H	-66.536	3.200	10.008	-59.728	-13	-46.728
1420.00	-54.870	V	-60.456	2.589	7.916	-55.129	-13	-42.129
2130.00	-52.190	V	-56.972	3.200	10.008	-50.164	-13	-37.164
High Channel 23800 (711.00MHz)								
1422.00	-54.830	H	-59.012	2.591	7.926	-53.677	-13	-40.677
2133.00	-59.270	H	-63.094	3.202	10.013	-56.283	-13	-43.283
1422.00	-49.940	V	-55.540	2.591	7.926	-50.205	-13	-37.205
2133.00	-50.450	V	-55.179	3.202	10.013	-48.368	-13	-35.368



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_QPSK\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-50.300	H	-54.462	2.588	7.906	-49.143	-13	-36.143
2127.00	-60.350	H	-64.299	3.198	10.003	-57.494	-13	-44.494
1418.00	-43.630	V	-49.202	2.588	7.906	-43.883	-13	-30.883
2127.00	-53.660	V	-58.495	3.198	10.003	-51.690	-13	-38.690
Middle Channel 23790 (710.00MHz)								
1420.00	-52.220	H	-56.392	2.589	7.916	-51.065	-13	-38.065
2130.00	-62.800	H	-66.686	3.200	10.008	-59.878	-13	-46.878
1420.00	-44.710	V	-50.296	2.589	7.916	-44.969	-13	-31.969
2130.00	-62.190	V	-66.972	3.200	10.008	-60.164	-13	-47.164
High Channel 23800 (711.00MHz)								
1422.00	-53.030	H	-57.212	2.591	7.926	-51.877	-13	-38.877
2133.00	-59.040	H	-62.864	3.202	10.013	-56.053	-13	-43.053
1422.00	-47.920	V	-53.520	2.591	7.926	-48.185	-13	-35.185
2133.00	-50.810	V	-55.539	3.202	10.013	-48.728	-13	-35.728

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

## LTE B17\_10M\_QPSK\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-58.370	H	-62.532	2.588	7.906	-57.213	-13	-44.213
2127.00	-62.580	H	-66.529	3.198	10.003	-59.724	-13	-46.724
1418.00	-53.400	V	-58.972	2.588	7.906	-53.653	-13	-40.653
2127.00	-60.390	V	-65.225	3.198	10.003	-58.420	-13	-45.420
Middle Channel 23790 (710.00MHz)								
1420.00	-60.280	H	-64.452	2.589	7.916	-59.125	-13	-46.125
2130.00	-62.530	H	-66.416	3.200	10.008	-59.608	-13	-46.608
1420.00	-53.570	V	-59.156	2.589	7.916	-53.829	-13	-40.829
2130.00	-58.120	V	-62.902	3.200	10.008	-56.094	-13	-43.094
High Channel 23800 (711.00MHz)								
1422.00	-59.050	H	-63.232	2.591	7.926	-57.897	-13	-44.897
2133.00	-62.720	H	-66.544	3.202	10.013	-59.733	-13	-46.733
1422.00	-54.390	V	-59.990	2.591	7.926	-54.655	-13	-41.655
2133.00	-57.390	V	-62.119	3.202	10.013	-55.308	-13	-42.308

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_QPSK\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-59.590	H	-63.752	2.588	7.906	-58.433	-13	-45.433
2127.00	-62.230	H	-66.179	3.198	10.003	-59.374	-13	-46.374
1418.00	-54.630	V	-60.202	2.588	7.906	-54.883	-13	-41.883
2127.00	-58.360	V	-63.195	3.198	10.003	-56.390	-13	-43.390
Middle Channel 23790 (710.00MHz)								
1420.00	-60.470	H	-64.642	2.589	7.916	-59.315	-13	-46.315
2130.00	-62.700	H	-66.586	3.200	10.008	-59.778	-13	-46.778
1420.00	-56.570	V	-62.156	2.589	7.916	-56.829	-13	-43.829
2130.00	-58.540	V	-63.322	3.200	10.008	-56.514	-13	-43.514
High Channel 23800 (711.00MHz)								
1422.00	-57.930	H	-62.112	2.591	7.926	-56.777	-13	-43.777
2133.00	-66.910	H	-70.734	3.202	10.013	-63.923	-13	-50.923
1422.00	-53.540	V	-59.140	2.591	7.926	-53.805	-13	-40.805
2133.00	-57.120	V	-61.849	3.202	10.013	-55.038	-13	-42.038

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_QPSK\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-59.920	H	-64.082	2.588	7.906	-58.763	-13	-45.763
2127.00	-61.890	H	-65.839	3.198	10.003	-59.034	-13	-46.034
1418.00	-54.690	V	-60.262	2.588	7.906	-54.943	-13	-41.943
2127.00	-57.210	V	-62.045	3.198	10.003	-55.240	-13	-42.240
Middle Channel 23790 (710.00MHz)								
1420.00	-58.710	H	-62.882	2.589	7.916	-57.555	-13	-44.555
2130.00	-62.970	H	-66.856	3.200	10.008	-60.048	-13	-47.048
1420.00	-53.250	V	-58.836	2.589	7.916	-53.509	-13	-40.509
2130.00	-59.000	V	-63.782	3.200	10.008	-56.974	-13	-43.974
High Channel 23800 (711.00MHz)								
1422.00	-55.100	H	-59.282	2.591	7.926	-53.947	-13	-40.947
2133.00	-61.190	H	-65.014	3.202	10.013	-58.203	-13	-45.203
1422.00	-49.470	V	-55.070	2.591	7.926	-49.735	-13	-36.735
2133.00	-58.400	V	-63.129	3.202	10.013	-56.318	-13	-43.318

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_QPSK\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-60.070	H	-64.232	2.588	7.906	-58.913	-13	-45.913
2127.00	-62.830	H	-66.779	3.198	10.003	-59.974	-13	-46.974
1418.00	-55.420	V	-60.992	2.588	7.906	-55.673	-13	-42.673
2127.00	-59.980	V	-64.815	3.198	10.003	-58.010	-13	-45.010
Middle Channel 23790 (710.00MHz)								
1420.00	-60.310	H	-64.482	2.589	7.916	-59.155	-13	-46.155
2130.00	-62.340	H	-66.226	3.200	10.008	-59.418	-13	-46.418
1420.00	-54.890	V	-60.476	2.589	7.916	-55.149	-13	-42.149
2130.00	-59.690	V	-64.472	3.200	10.008	-57.664	-13	-44.664
High Channel 23800 (711.00MHz)								
1422.00	-58.070	H	-62.252	2.591	7.926	-56.917	-13	-43.917
2133.00	-62.170	H	-65.994	3.202	10.013	-59.183	-13	-46.183
1422.00	-53.370	V	-58.970	2.591	7.926	-53.635	-13	-40.635
2133.00	-59.490	V	-64.219	3.202	10.013	-57.408	-13	-44.408

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_1RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-52.580	H	-56.742	2.588	7.906	-51.423	-13	-38.423
2127.00	-62.770	H	-66.719	3.198	10.003	-59.914	-13	-46.914
1418.00	-45.170	V	-50.742	2.588	7.906	-45.423	-13	-32.423
2127.00	-62.280	V	-67.115	3.198	10.003	-60.310	-13	-47.310
Middle Channel 23790 (710.00MHz)								
1420.00	-53.630	H	-57.802	2.589	7.916	-52.475	-13	-39.475
2130.00	-61.990	H	-65.876	3.200	10.008	-59.068	-13	-46.068
1420.00	-46.540	V	-52.126	2.589	7.916	-46.799	-13	-33.799
2130.00	-62.800	V	-67.582	3.200	10.008	-60.774	-13	-47.774
High Channel 23800 (711.00MHz)								
1422.00	-54.000	H	-58.182	2.591	7.926	-52.847	-13	-39.847
2133.00	-61.360	H	-65.184	3.202	10.013	-58.373	-13	-45.373
1422.00	-48.620	V	-54.220	2.591	7.926	-48.885	-13	-35.885
2133.00	-62.140	V	-66.869	3.202	10.013	-60.058	-13	-47.058

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_1RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-58.430	H	-62.592	2.588	7.906	-57.273	-13	-44.273
2127.00	-59.690	H	-63.639	3.198	10.003	-56.834	-13	-43.834
1418.00	-55.410	V	-60.982	2.588	7.906	-55.663	-13	-42.663
2127.00	-61.740	V	-66.575	3.198	10.003	-59.770	-13	-46.770
Middle Channel 23790 (710.00MHz)								
1420.00	-57.200	H	-61.372	2.589	7.916	-56.045	-13	-43.045
2130.00	-62.030	H	-65.916	3.200	10.008	-59.108	-13	-46.108
1420.00	-54.160	V	-59.746	2.589	7.916	-54.419	-13	-41.419
2130.00	-47.940	V	-52.722	3.200	10.008	-45.914	-13	-32.914
High Channel 23800 (711.00MHz)								
1422.00	-55.080	H	-59.262	2.591	7.926	-53.927	-13	-40.927
2133.00	-60.040	H	-63.864	3.202	10.013	-57.053	-13	-44.053
1422.00	-50.260	V	-55.860	2.591	7.926	-50.525	-13	-37.525
2133.00	-51.230	V	-55.959	3.202	10.013	-49.148	-13	-36.148

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_1RB49\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-50.120	H	-54.282	2.588	7.906	-48.963	-13	-35.963
2127.00	-62.810	H	-66.759	3.198	10.003	-59.954	-13	-46.954
1418.00	-43.910	V	-49.482	2.588	7.906	-44.163	-13	-31.163
2127.00	-53.660	V	-58.495	3.198	10.003	-51.690	-13	-38.690
Middle Channel 23790 (710.00MHz)								
1420.00	-49.770	H	-53.942	2.589	7.916	-48.615	-13	-35.615
2130.00	-60.360	H	-64.246	3.200	10.008	-57.438	-13	-44.438
1420.00	-43.040	V	-48.626	2.589	7.916	-43.299	-13	-30.299
2130.00	-52.420	V	-57.202	3.200	10.008	-50.394	-13	-37.394
High Channel 23800 (711.00MHz)								
1422.00	-54.160	H	-58.342	2.591	7.926	-53.007	-13	-40.007
2133.00	-62.310	H	-66.134	3.202	10.013	-59.323	-13	-46.323
1422.00	-48.160	V	-53.760	2.591	7.926	-48.425	-13	-35.425
2133.00	-52.200	V	-56.929	3.202	10.013	-50.118	-13	-37.118



Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_25RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-59.020	H	-63.182	2.588	7.906	-57.863	-13	-44.863
2127.00	-59.300	H	-63.249	3.198	10.003	-56.444	-13	-43.444
1418.00	-52.460	V	-58.032	2.588	7.906	-52.713	-13	-39.713
2127.00	-60.800	V	-65.635	3.198	10.003	-58.830	-13	-45.830
Middle Channel 23790 (710.00MHz)								
1420.00	-57.670	H	-61.842	2.589	7.916	-56.515	-13	-43.515
2130.00	-61.970	H	-65.856	3.200	10.008	-59.048	-13	-46.048
1420.00	-53.150	V	-58.736	2.589	7.916	-53.409	-13	-40.409
2130.00	-56.810	V	-61.592	3.200	10.008	-54.784	-13	-41.784
High Channel 23800 (711.00MHz)								
1422.00	-58.770	H	-62.952	2.591	7.926	-57.617	-13	-44.617
2133.00	-62.510	H	-66.334	3.202	10.013	-59.523	-13	-46.523
1422.00	-54.070	V	-59.670	2.591	7.926	-54.335	-13	-41.335
2133.00	-56.100	V	-60.829	3.202	10.013	-54.018	-13	-41.018

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_25RB12\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-60.400	H	-64.562	2.588	7.906	-59.243	-13	-46.243
2127.00	-62.640	H	-66.589	3.198	10.003	-59.784	-13	-46.784
1418.00	-57.760	V	-63.332	2.588	7.906	-58.013	-13	-45.013
2127.00	-57.590	V	-62.425	3.198	10.003	-55.620	-13	-42.620
Middle Channel 23790 (710.00MHz)								
1420.00	-58.940	H	-63.112	2.589	7.916	-57.785	-13	-44.785
2130.00	-62.440	H	-66.326	3.200	10.008	-59.518	-13	-46.518
1420.00	-55.760	V	-61.346	2.589	7.916	-56.019	-13	-43.019
2130.00	-56.010	V	-60.792	3.200	10.008	-53.984	-13	-40.984
High Channel 23800 (711.00MHz)								
1422.00	-58.710	H	-62.892	2.591	7.926	-57.557	-13	-44.557
2133.00	-62.400	H	-66.224	3.202	10.013	-59.413	-13	-46.413
1422.00	-53.110	V	-58.710	2.591	7.926	-53.375	-13	-40.375
2133.00	-56.310	V	-61.039	3.202	10.013	-54.228	-13	-41.228

Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_25RB24\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-59.780	H	-63.942	2.588	7.906	-58.623	-13	-45.623
2127.00	-62.220	H	-66.169	3.198	10.003	-59.364	-13	-46.364
1418.00	-54.700	V	-60.272	2.588	7.906	-54.953	-13	-41.953
2127.00	-57.900	V	-62.735	3.198	10.003	-55.930	-13	-42.930
Middle Channel 23790 (710.00MHz)								
1420.00	-56.430	H	-60.602	2.589	7.916	-55.275	-13	-42.275
2130.00	-62.320	H	-66.206	3.200	10.008	-59.398	-13	-46.398
1420.00	-51.290	V	-56.876	2.589	7.916	-51.549	-13	-38.549
2130.00	-56.700	V	-61.482	3.200	10.008	-54.674	-13	-41.674
High Channel 23800 (711.00MHz)								
1422.00	-54.740	H	-58.922	2.591	7.926	-53.587	-13	-40.587
2133.00	-61.570	H	-65.394	3.202	10.013	-58.583	-13	-45.583
1422.00	-49.940	V	-55.540	2.591	7.926	-50.205	-13	-37.205
2133.00	-57.830	V	-62.559	3.202	10.013	-55.748	-13	-42.748

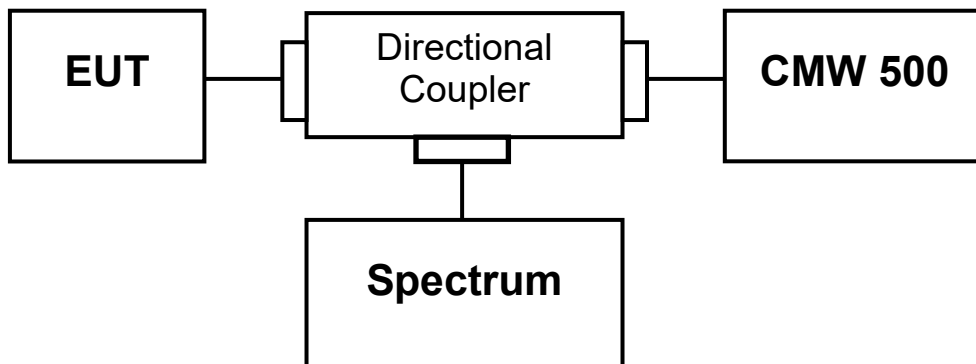
Product	Module		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 7: LTE Band 17		
Date of Test	2018/04/17	Test Site	CB4-H

LTE B17\_10M\_16-QAM\_50RB0\_Link

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 23780 (709.00MHz)								
1418.00	-60.400	H	-64.562	2.588	7.906	-59.243	-13	-46.243
2127.00	-62.560	H	-66.509	3.198	10.003	-59.704	-13	-46.704
1418.00	-56.300	V	-61.872	2.588	7.906	-56.553	-13	-43.553
2127.00	-60.090	V	-64.925	3.198	10.003	-58.120	-13	-45.120
Middle Channel 23790 (710.00MHz)								
1420.00	-58.790	H	-62.962	2.589	7.916	-57.635	-13	-44.635
2130.00	-62.000	H	-65.886	3.200	10.008	-59.078	-13	-46.078
1420.00	-54.890	V	-60.476	2.589	7.916	-55.149	-13	-42.149
2130.00	-57.570	V	-62.352	3.200	10.008	-55.544	-13	-42.544
High Channel 23800 (711.00MHz)								
1422.00	-58.370	H	-62.552	2.591	7.926	-57.217	-13	-44.217
2133.00	-62.610	H	-66.434	3.202	10.013	-59.623	-13	-46.623
1422.00	-53.250	V	-58.850	2.591	7.926	-53.515	-13	-40.515
2133.00	-59.210	V	-63.939	3.202	10.013	-57.128	-13	-44.128

## 7. Spurious Emissions at Antenna Terminals

### 7.1. Test Setup



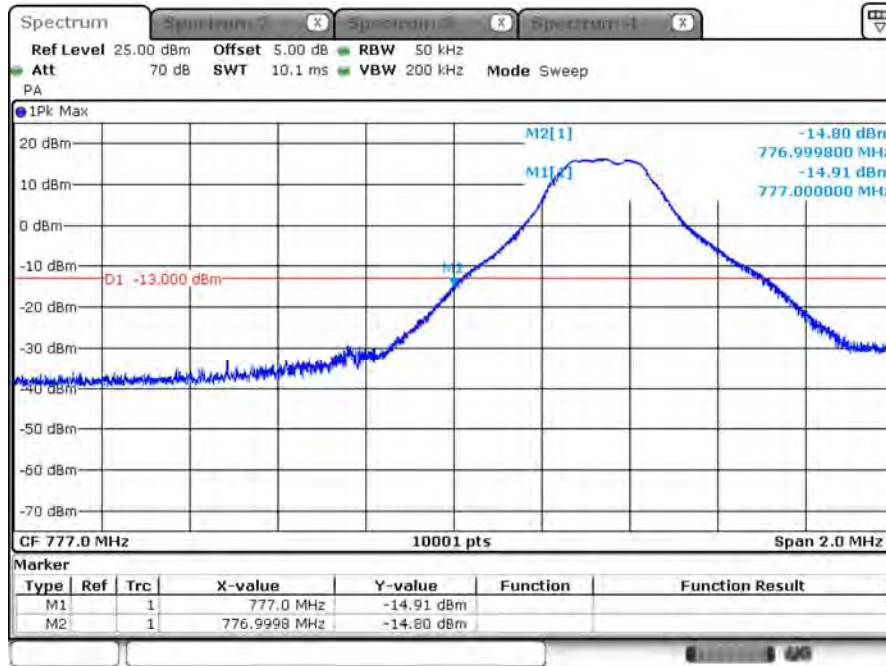
### 7.2. Test Procedure

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Coupler.
- c) EUT Communicate with CMW500, then select a channel for testing.
- d) Add a correction factor to the display of spectrum, and then test.
- e) The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

### 7.3. Test Result

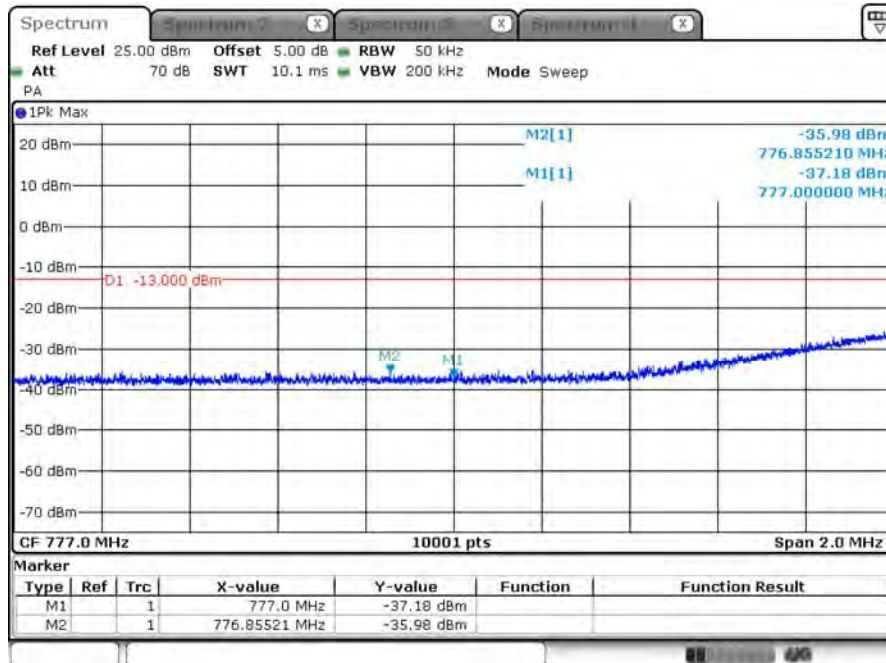
Product	Module		
Test Item	Spurious Emissions at Antenna Terminals		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/03/31	Test Site	SR10-H

#### CH23205\_5M\_QPSK\_1RB0



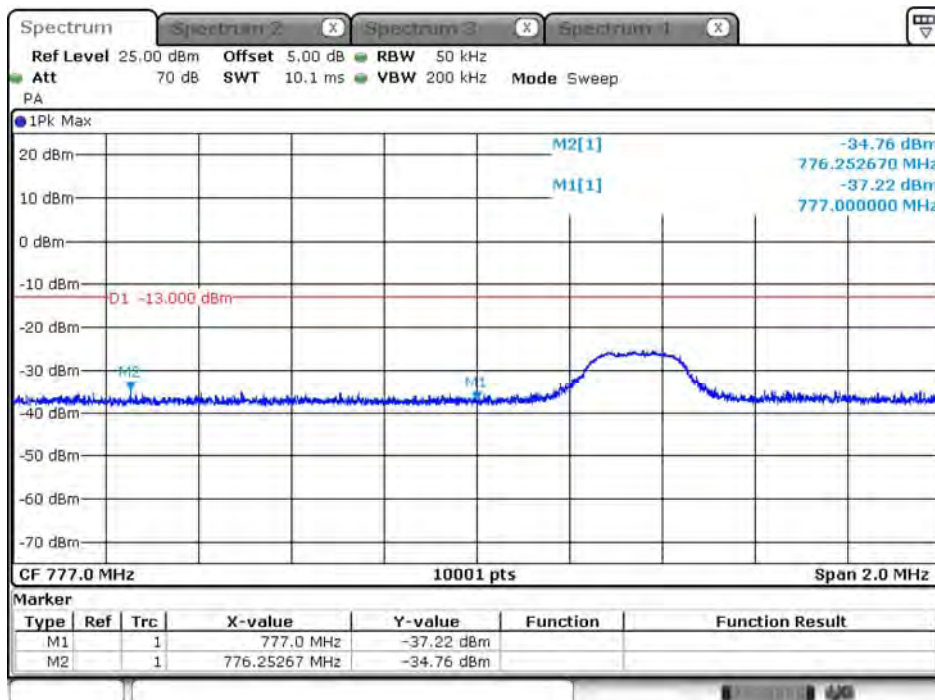
Date: 31.MAR.2018 15:41:50

#### CH23205\_5M\_QPSK\_1RB12



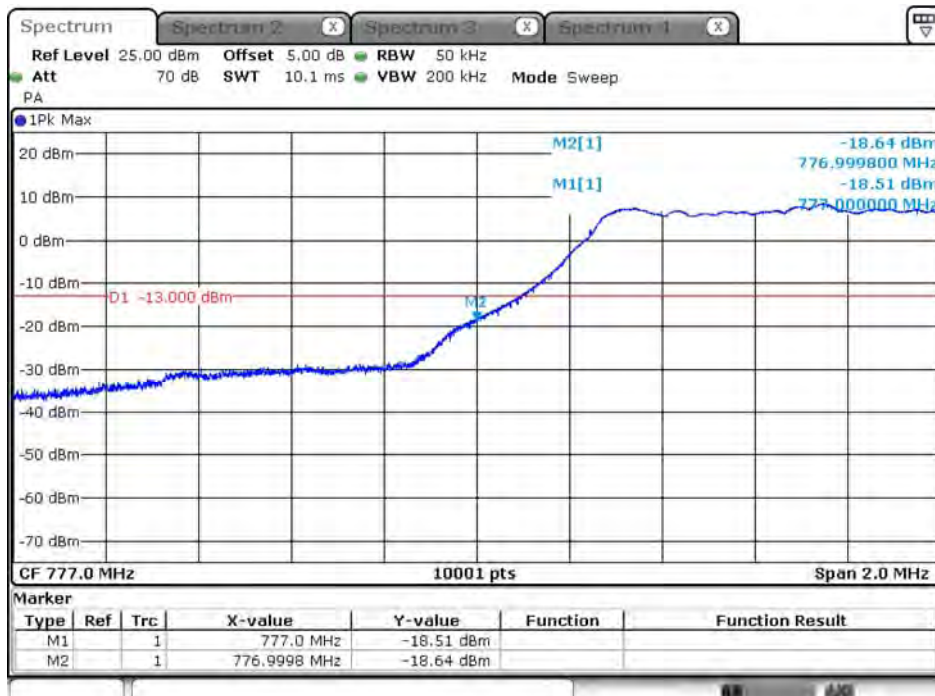
Date: 31.MAR.2018 15:46:04

### CH23205\_5M\_QPSK\_1RB24



Date: 31.MAR.2018 15:54:28

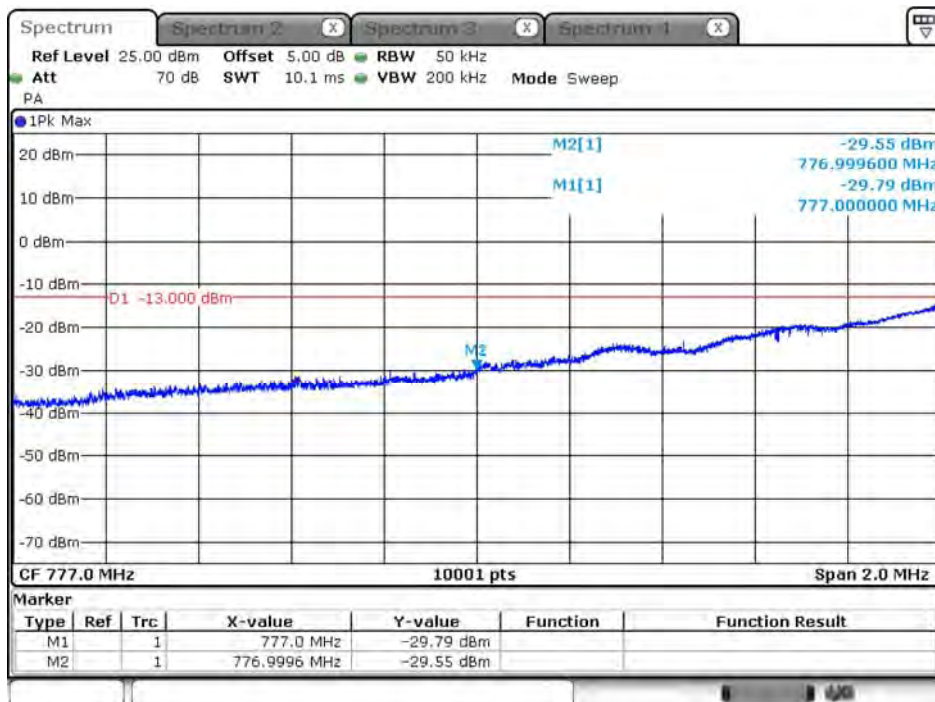
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Date: 31.MAR.2018 15:57:19

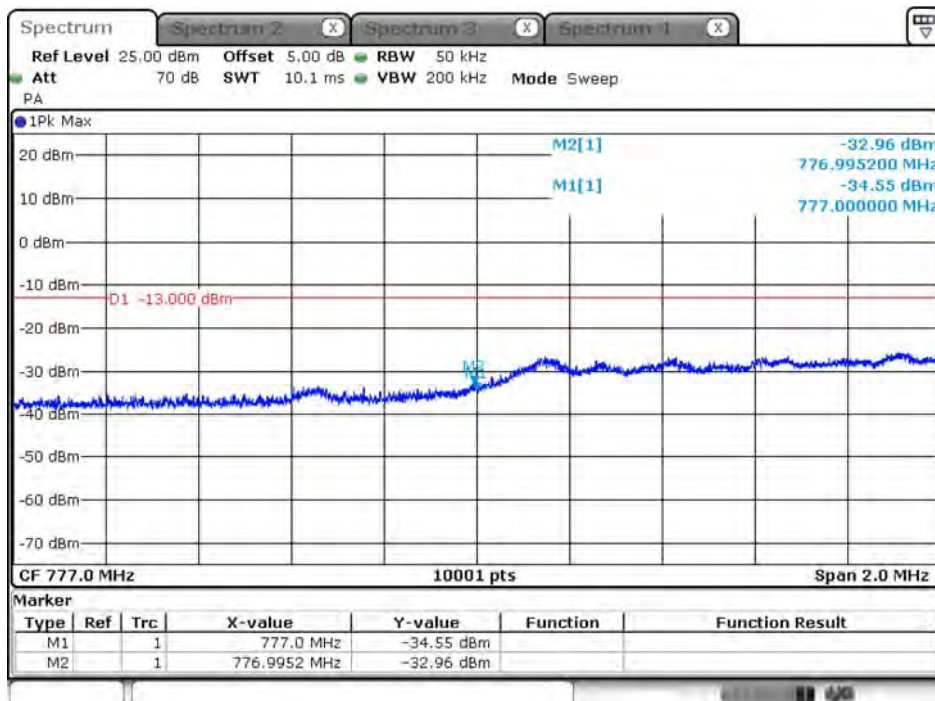


### CH23205\_5M\_QPSK\_12RB6



Date: 31.MAR.2018 15:59:38

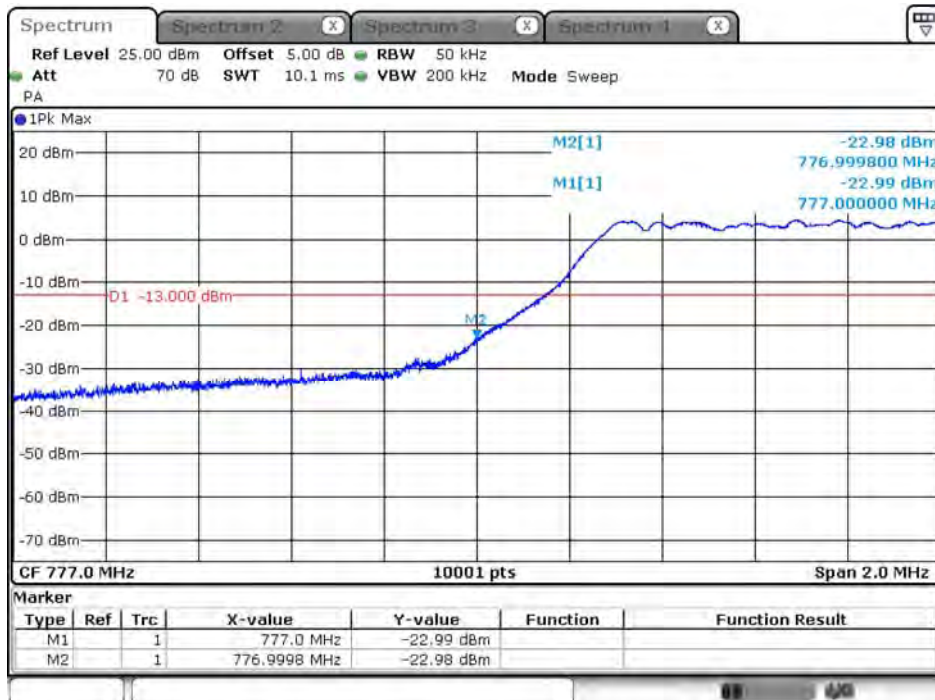
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Date: 31.MAR.2018 16:01:40

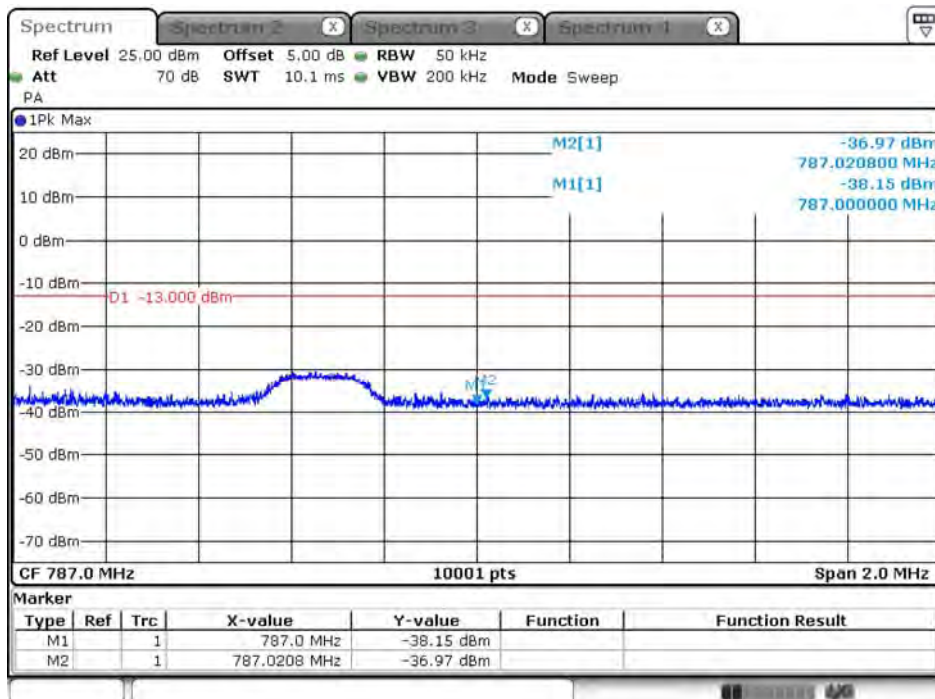


### CH23205\_5M\_QPSK\_25RB0



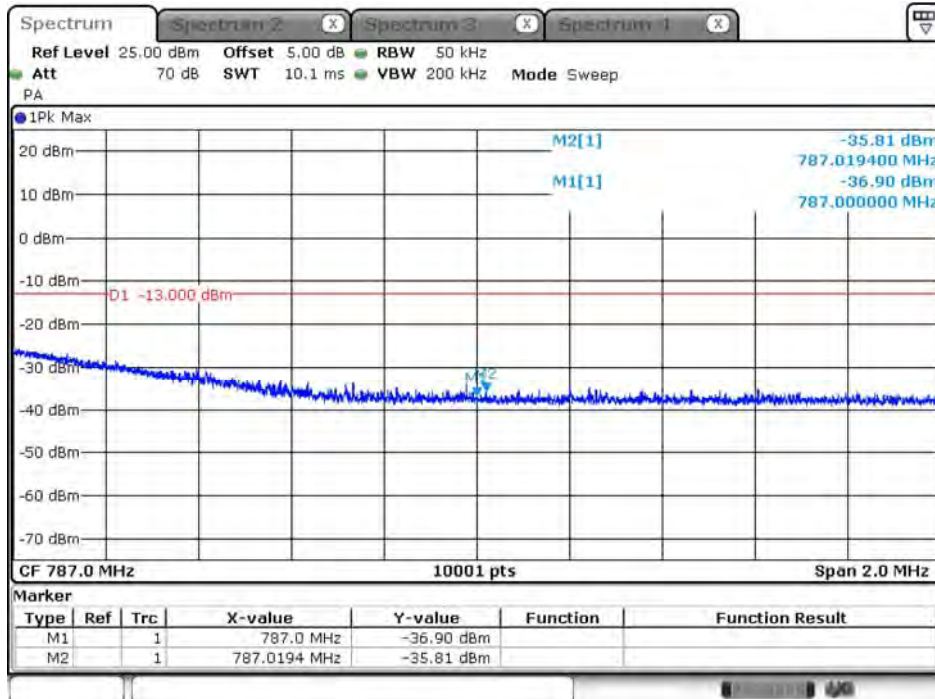
Date: 31.MAR.2018 16:03:59

### CH23255\_5M\_QPSK\_1RB0



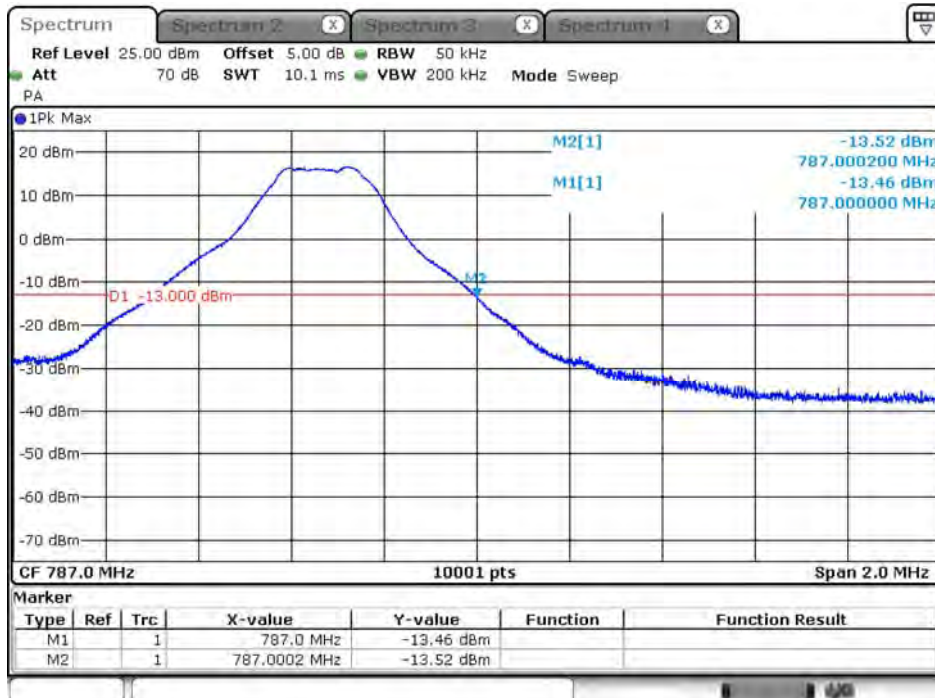
Date: 31.MAR.2018 16:25:13

### CH23255\_5M\_QPSK\_1RB12



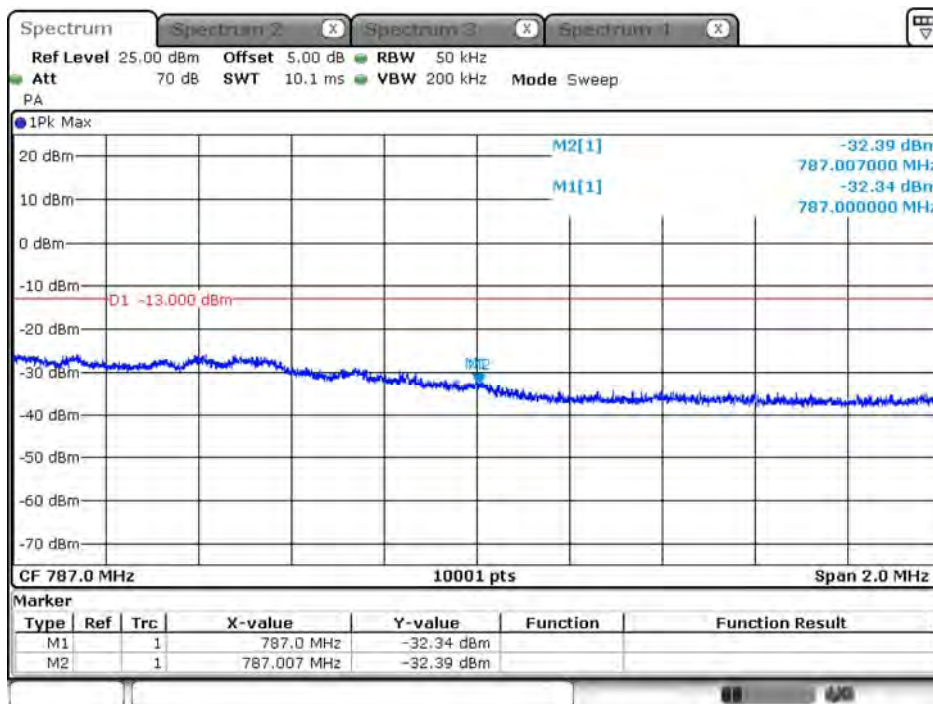
Date: 31.MAR.2018 16:27:06

### CH23255\_5M\_QPSK\_1RB24



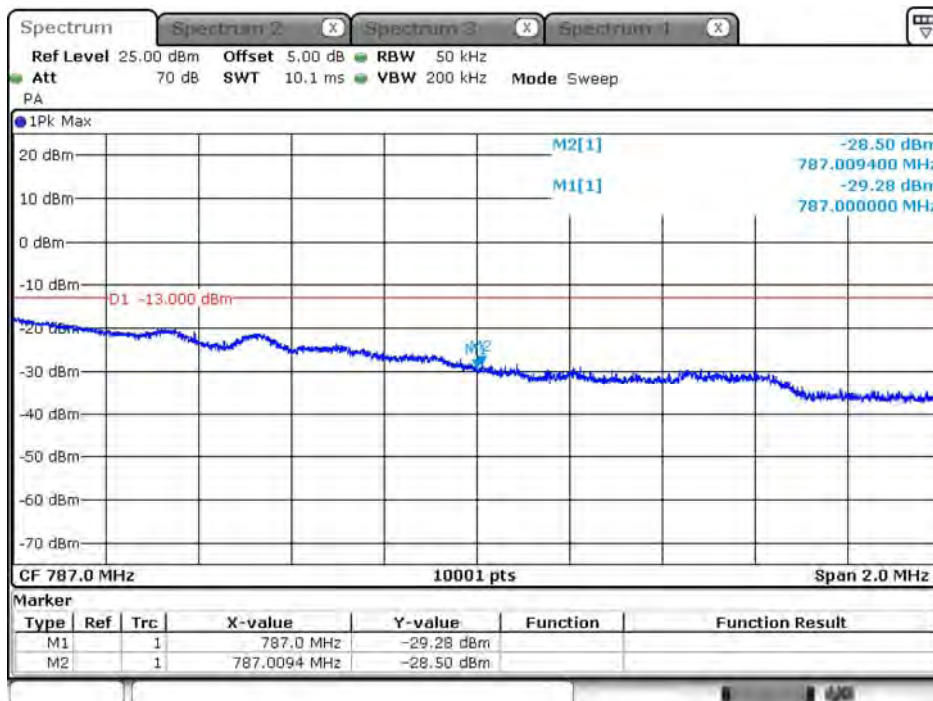
Date: 31.MAR.2018 16:30:57

### CH23255\_5M\_QPSK\_12RB0



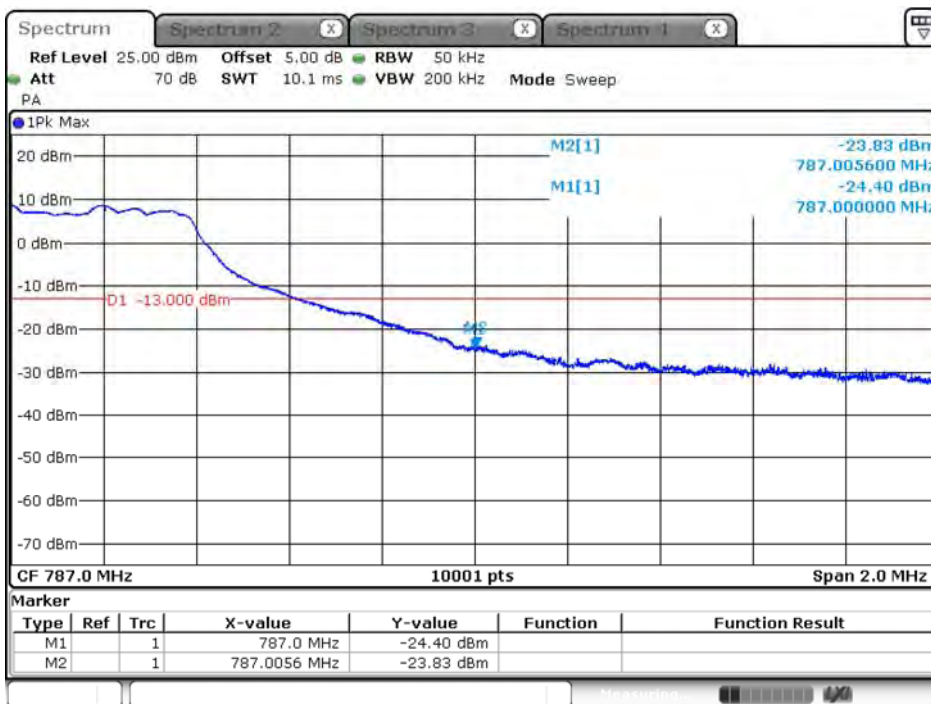
Date: 31.MAR.2018 16:32:47

### CH23255\_5M\_QPSK\_12RB6



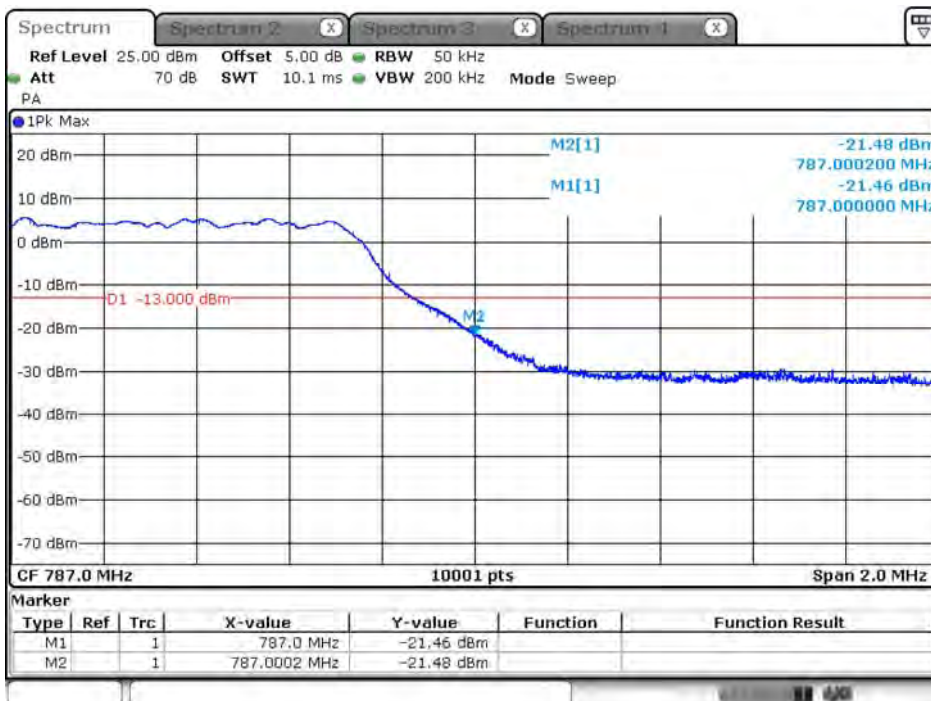
Date: 31.MAR.2018 16:34:45

### CH23255\_5M\_QPSK\_12RB11



Date: 31.MAR.2018 16:37:26

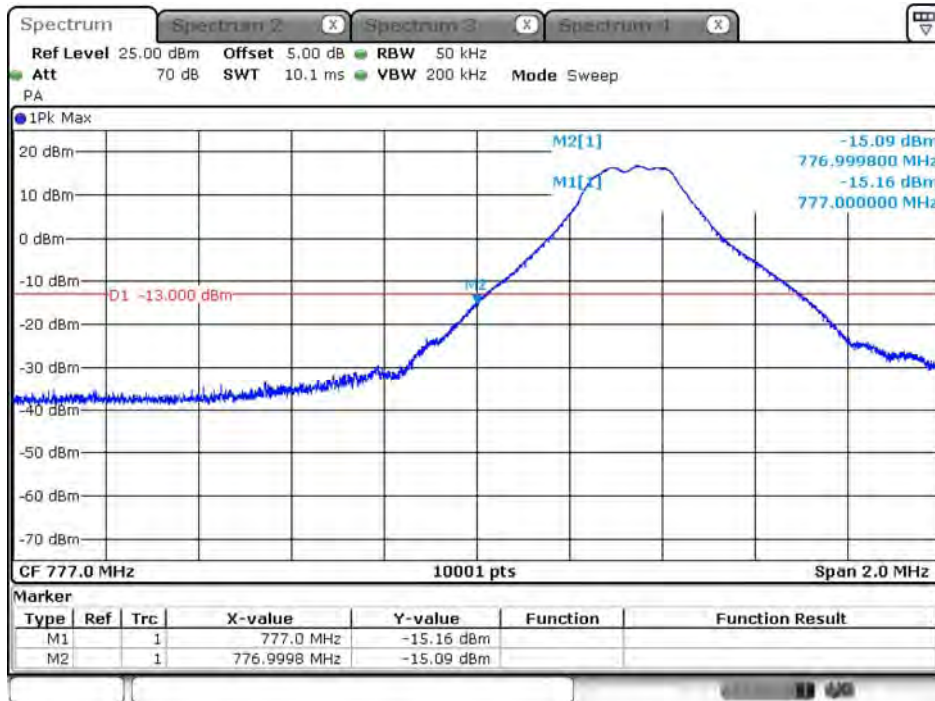
### CH23255\_5M\_QPSK\_25RB0



Date: 31.MAR.2018 16:39:39

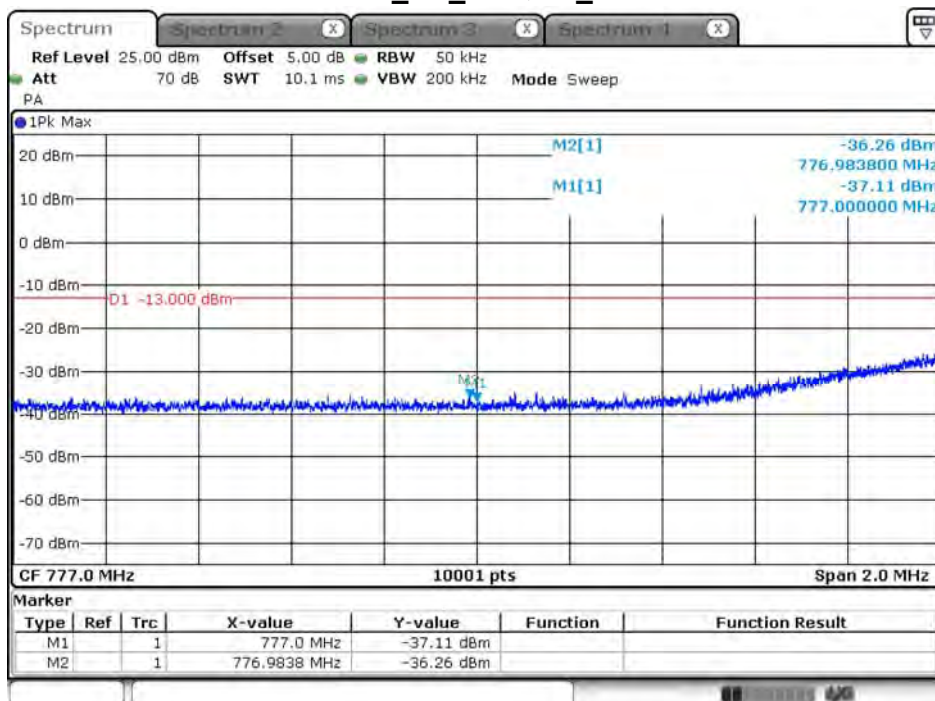


### CH23205\_5M\_16-QAM\_1RB0



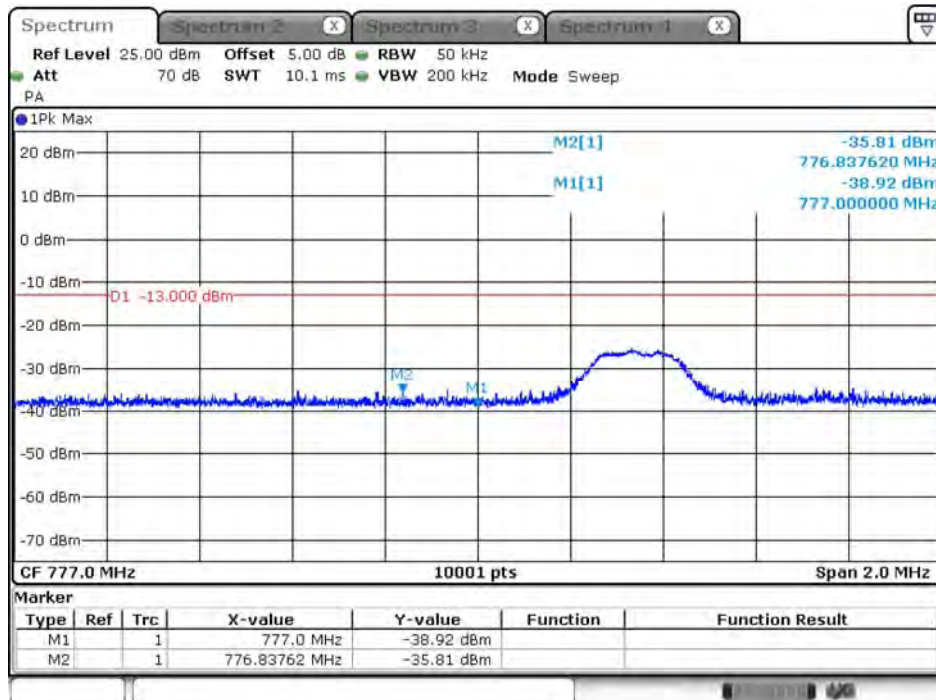
Date: 31.MAR.2018 16:06:42

### CH23205\_5M\_16-QAM\_1RB12



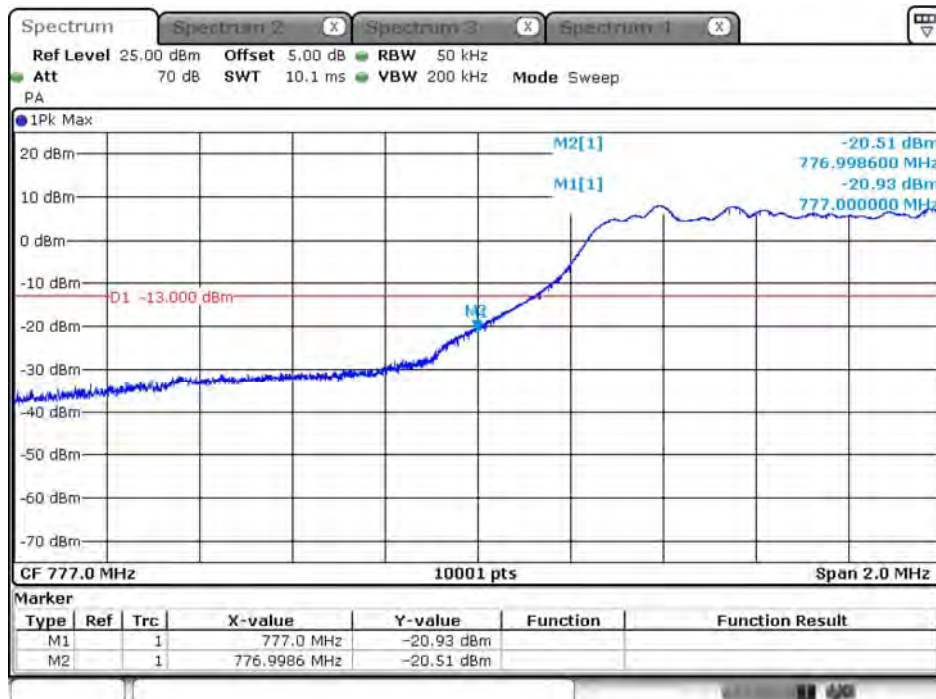
Date: 31.MAR.2018 16:10:06

### CH23205\_5M\_16-QAM\_1RB24



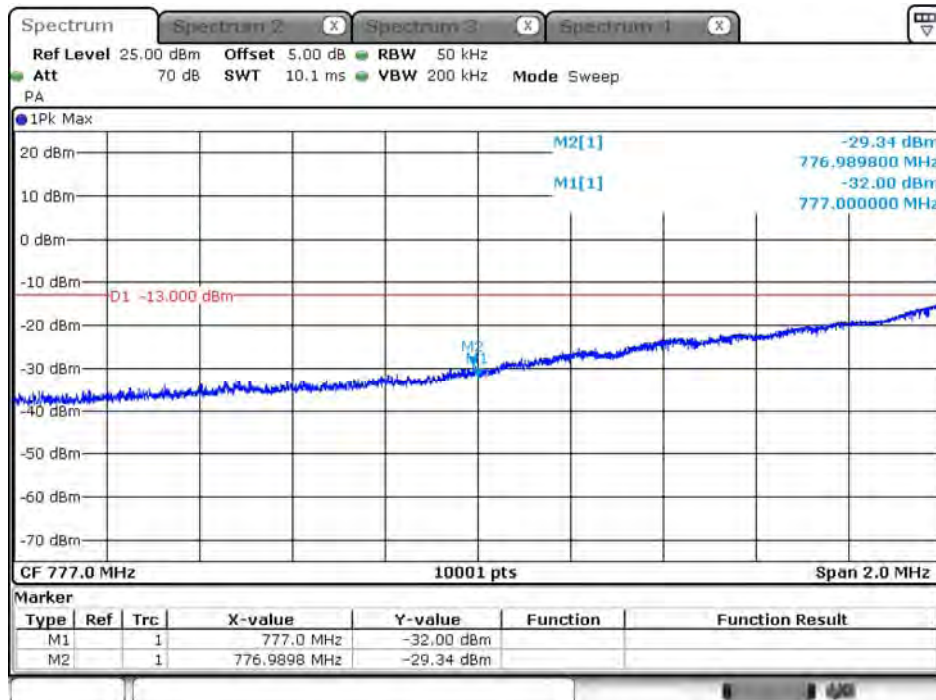
Date: 31.MAR.2018 16:11:46

### CH23205\_5M\_16-QAM\_12RB0



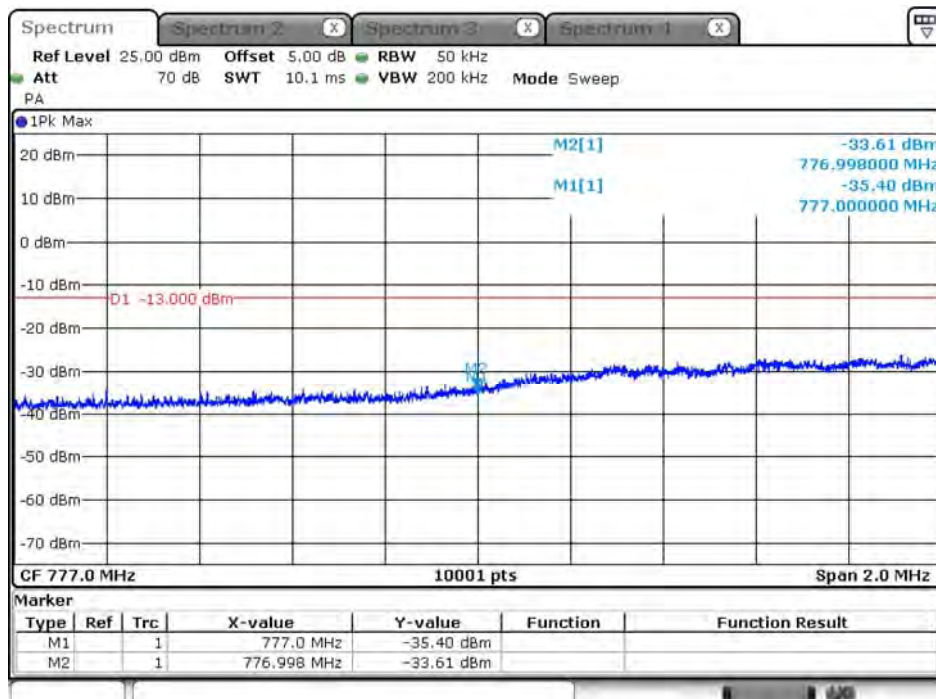
Date: 31.MAR.2018 16:14:08

### CH23205\_5M\_16-QAM\_12RB6



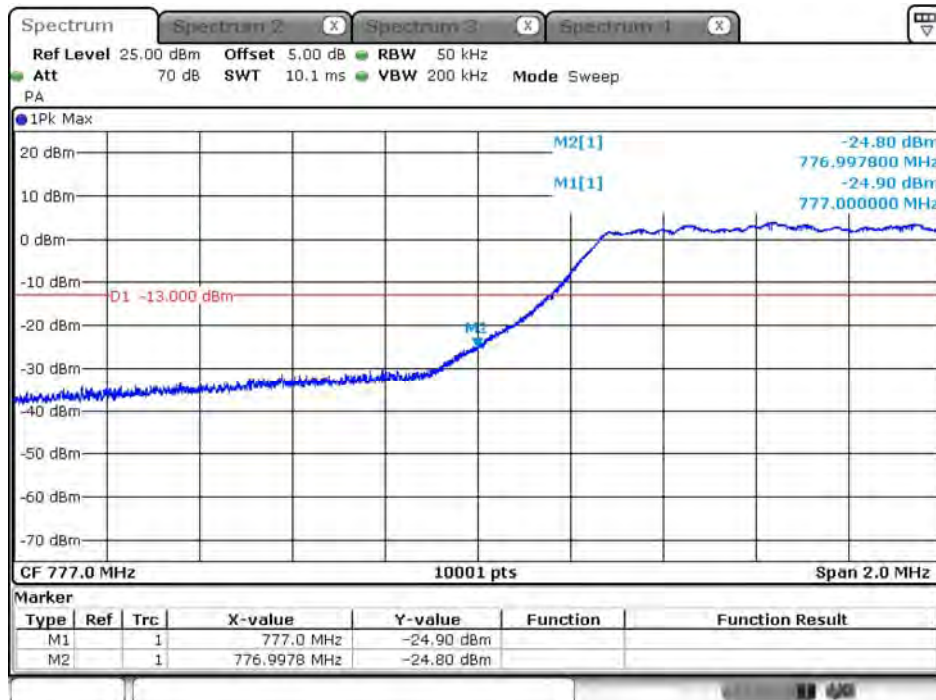
Date: 31.MAR.2018 16:16:05

### CH23205\_5M\_16-QAM\_12RB11



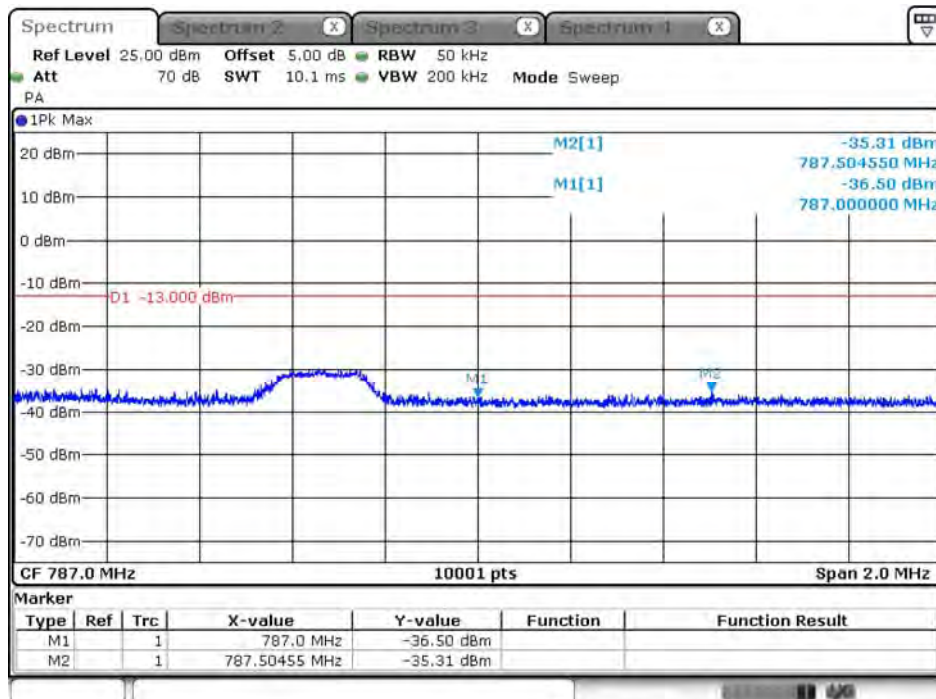
Date: 31.MAR.2018 16:18:08

### CH23205\_5M\_16-QAM\_25RB0



Date: 31.MAR.2018 16:19:32

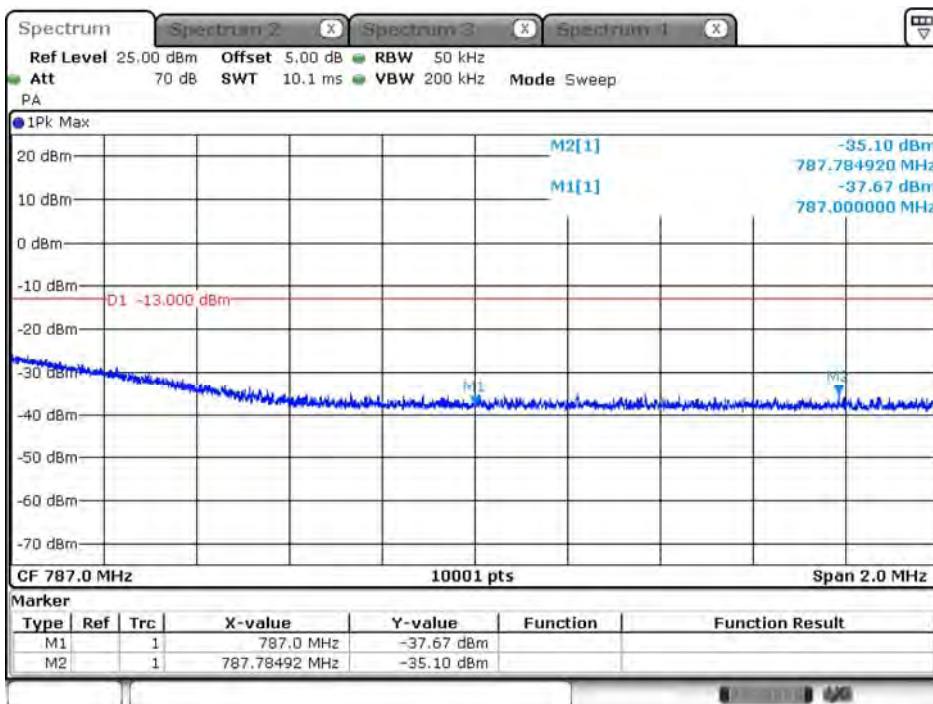
### CH23255\_5M\_16-QAM\_1RB0



Date: 31.MAR.2018 16:41:41

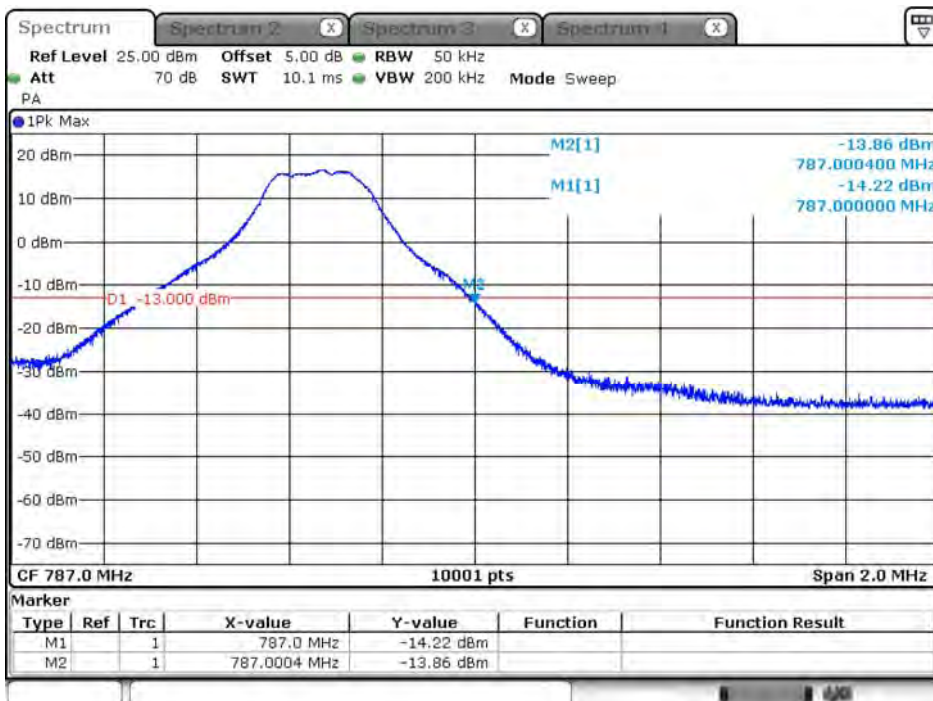


### CH23255\_5M\_16-QAM\_1RB12



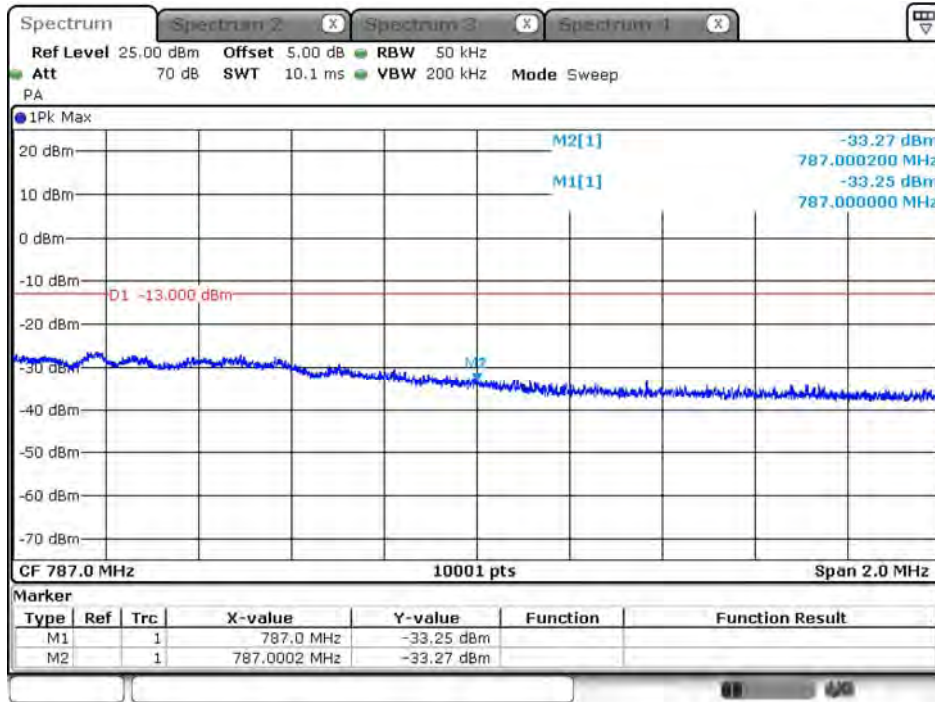
Date: 31.MAR.2018 16:44:25

### CH23255\_5M\_16-QAM\_1RB24



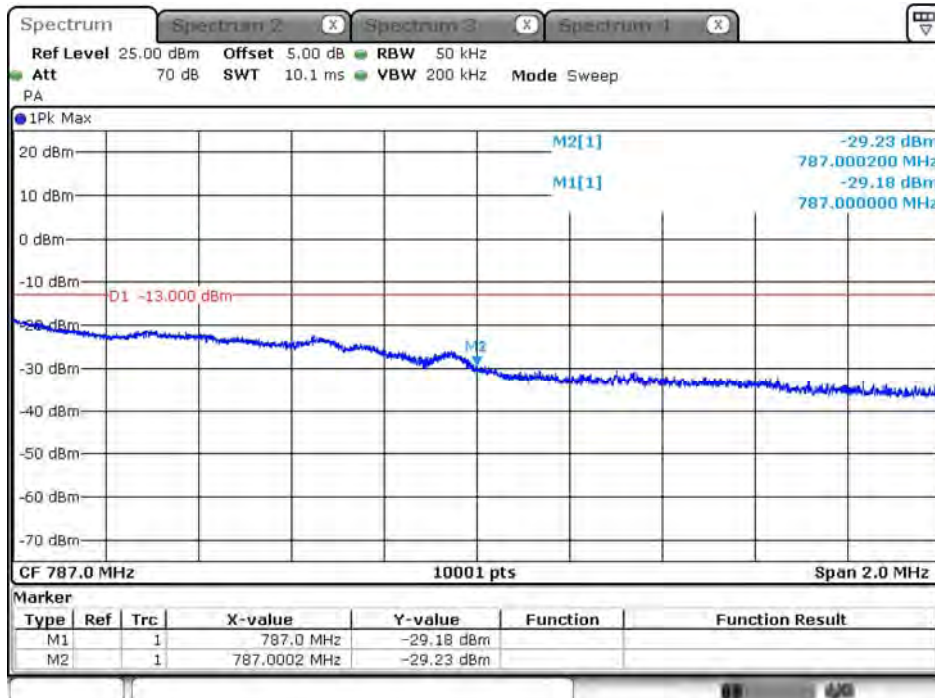
Date: 31.MAR.2018 16:45:48

### CH23255\_5M\_16-QAM\_12RB0



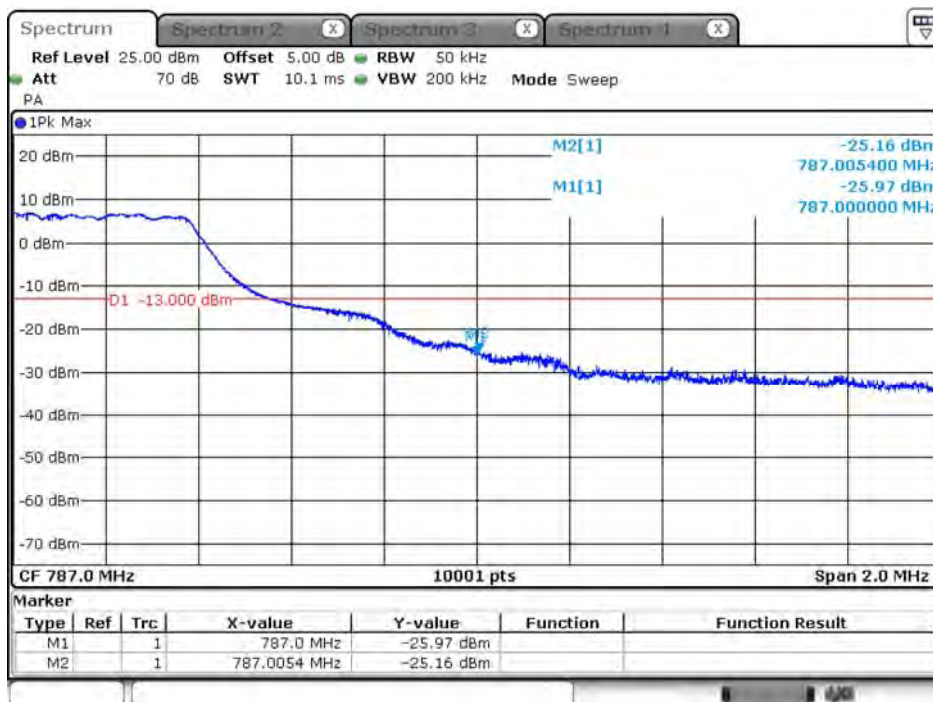
Date: 31.MAR.2018 16:48:28

### CH23255\_5M\_16-QAM\_12RB6



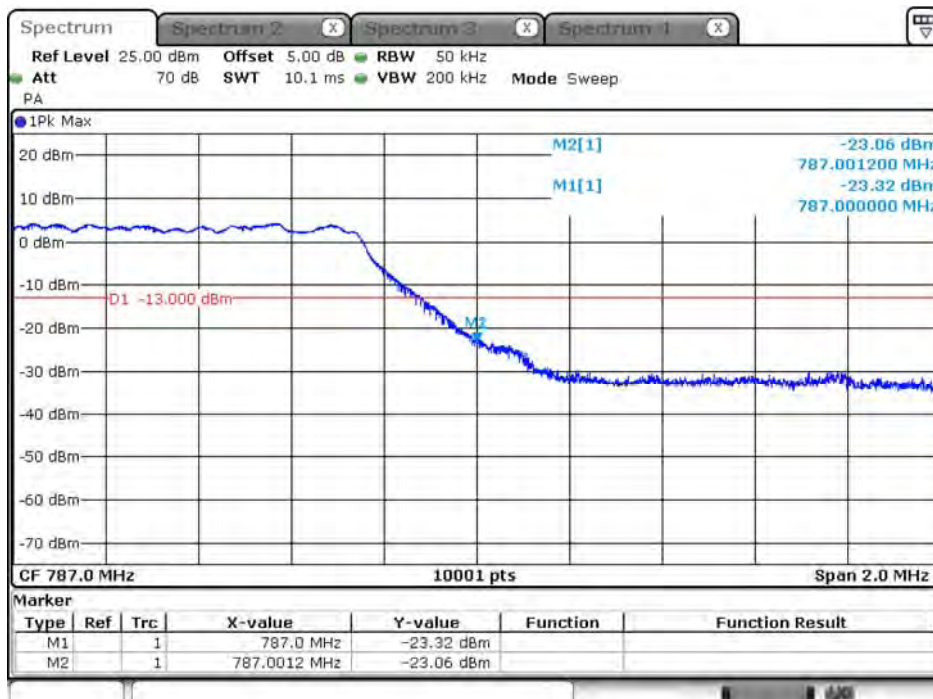
Date: 31.MAR.2018 16:50:53

### CH23255\_5M\_16-QAM\_12RB11



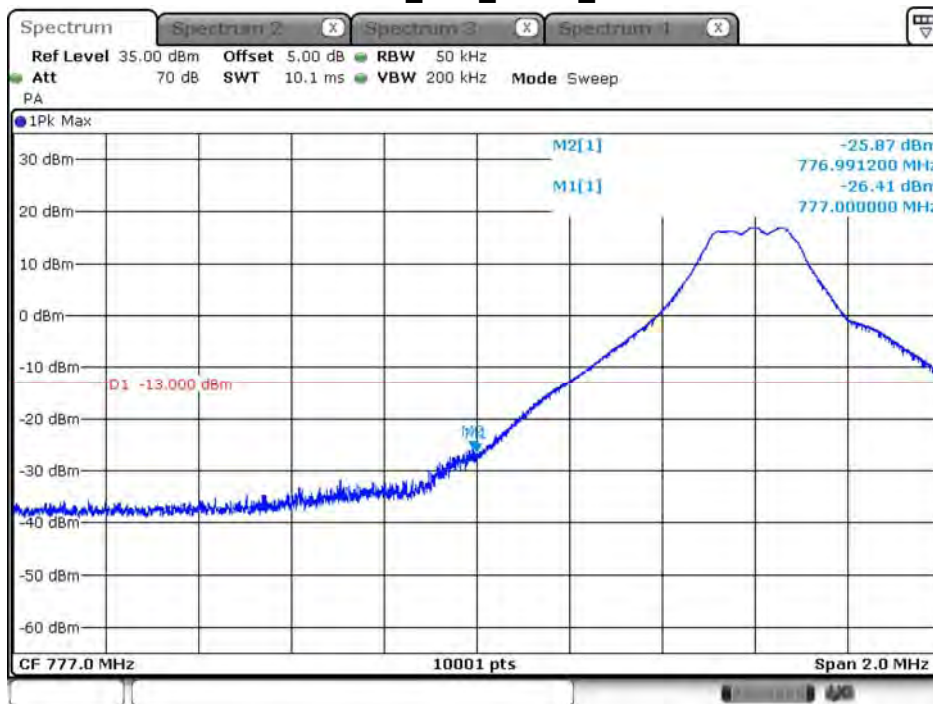
Date: 31.MAR.2018 16:52:18

### CH23255\_5M\_16-QAM\_25RB0



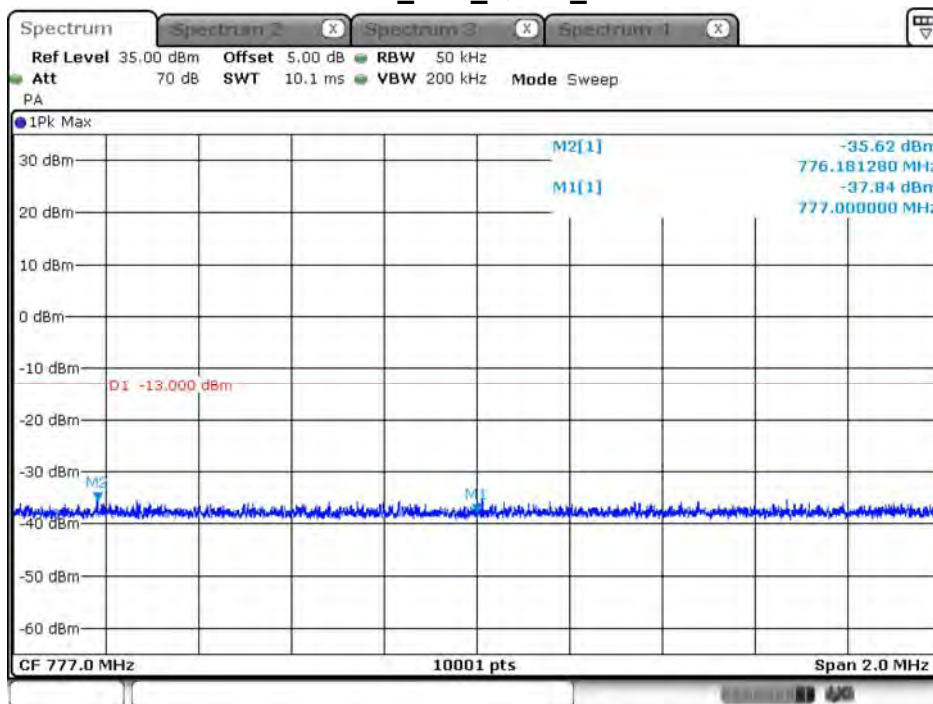
Date: 31.MAR.2018 16:53:41

### CH23205\_10M\_QPSK\_1RB0



Date: 1. APR. 2018 17:23:12

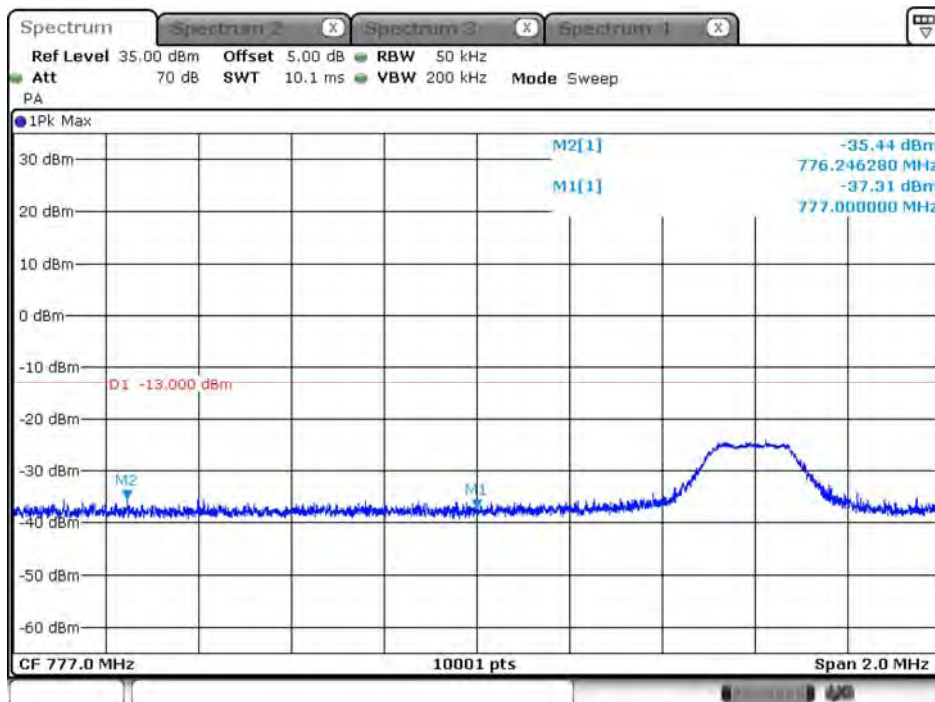
### CH23205\_10M\_QPSK\_1RB24



Date: 1. APR. 2018 17:34:45

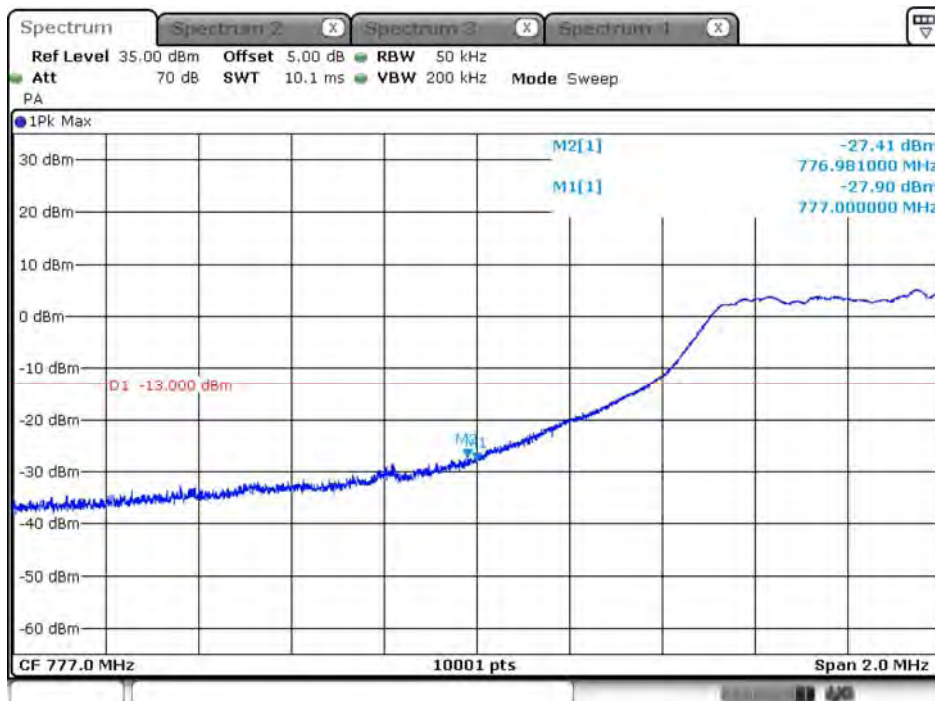


### CH23205\_10M\_QPSK\_1RB49



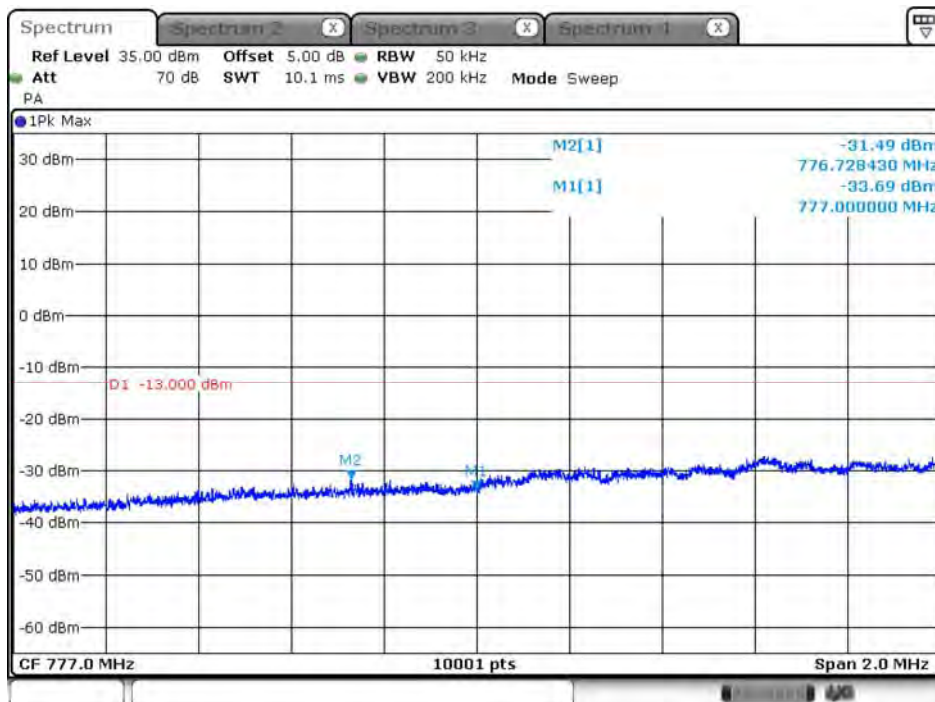
Date: 1. APR. 2018 17:37:36

### CH23205\_10M\_QPSK\_25RB0



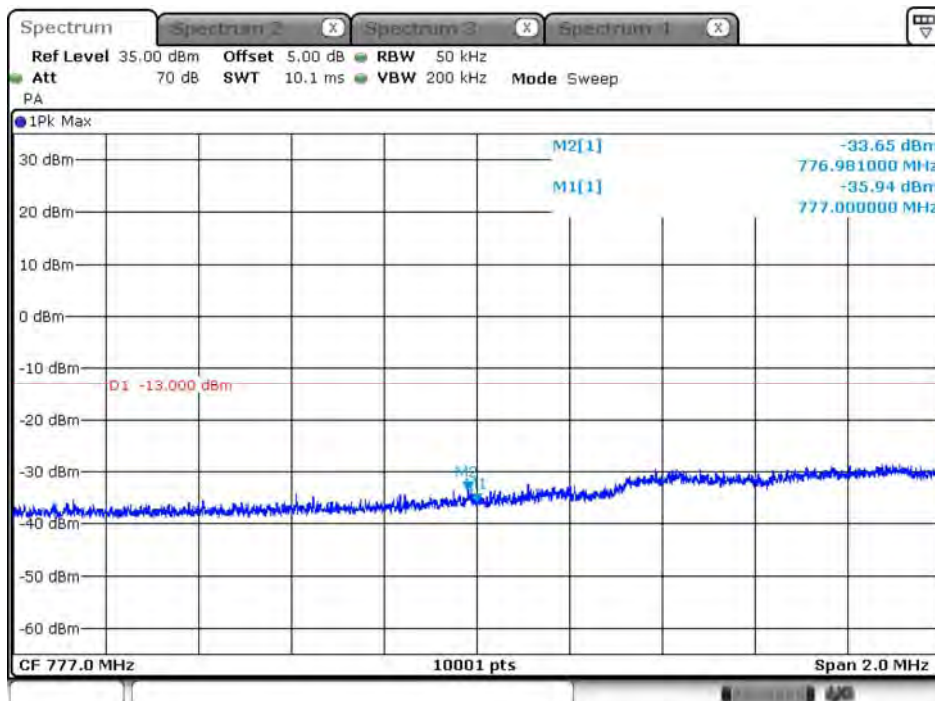
Date: 1. APR. 2018 17:45:54

### CH23205\_10M\_QPSK\_25RB12



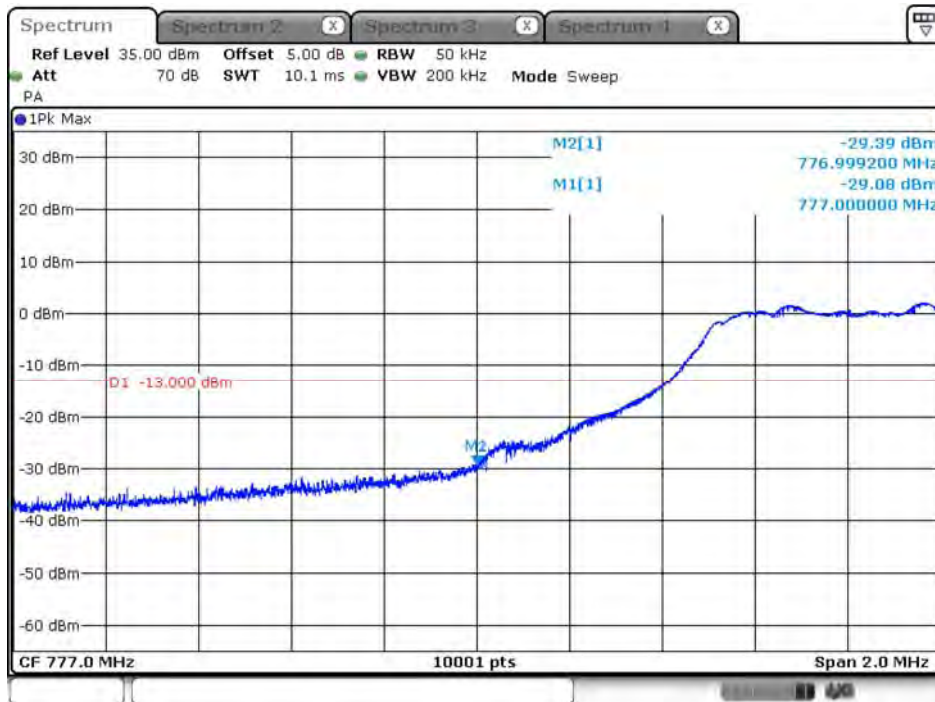
Date: 1. APR. 2018 17:50:21

### CH23205\_10M\_QPSK\_25RB24



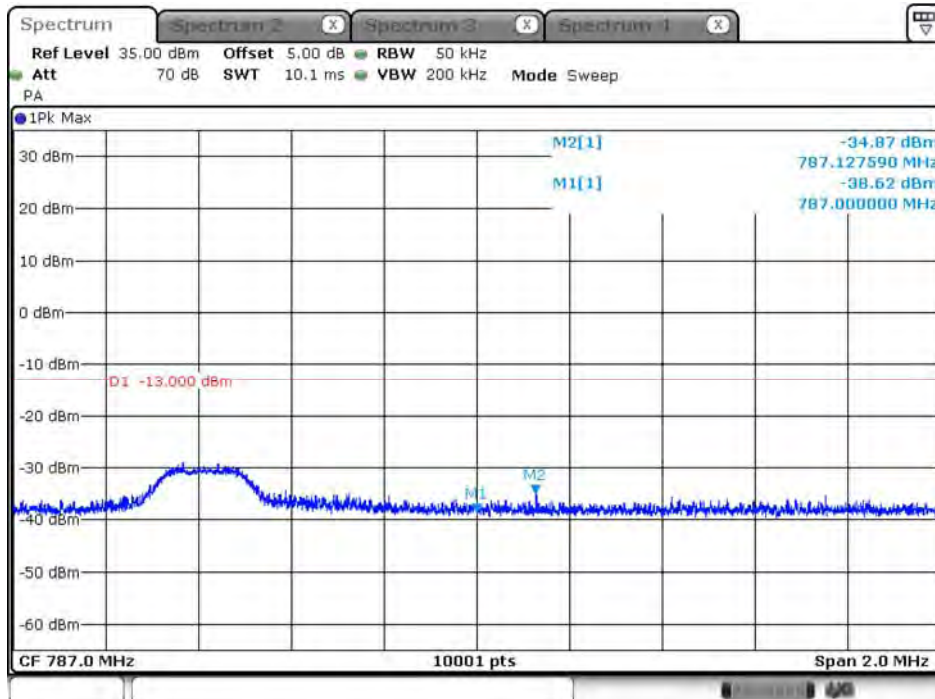
Date: 1. APR. 2018 18:01:16

### CH23205\_10M\_QPSK\_50RB0



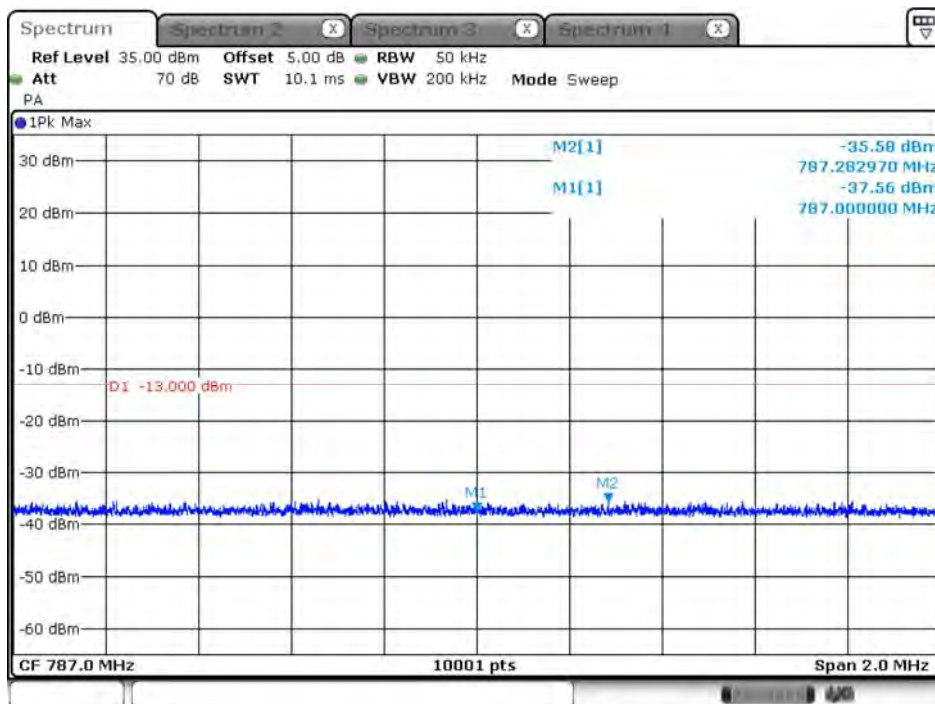
Date: 1. APR. 2018 17:59:20

### CH23255\_10M\_QPSK\_1RB0



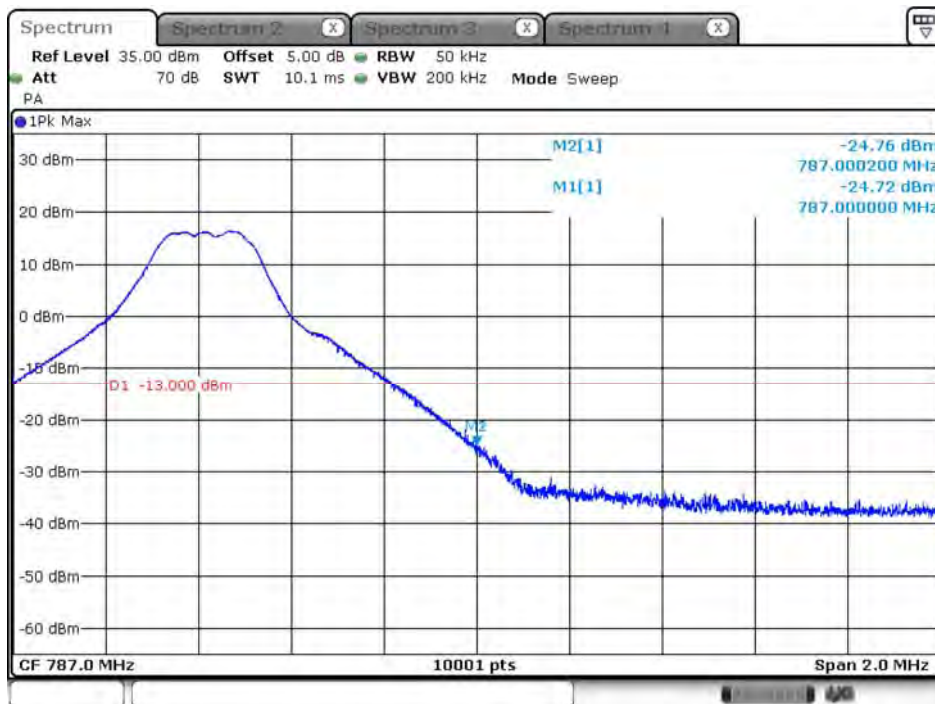
Date: 7. APR. 2018 10:07:04

### CH23255\_10M\_QPSK\_1RB24



Date: 7 APR 2018 10:12:02

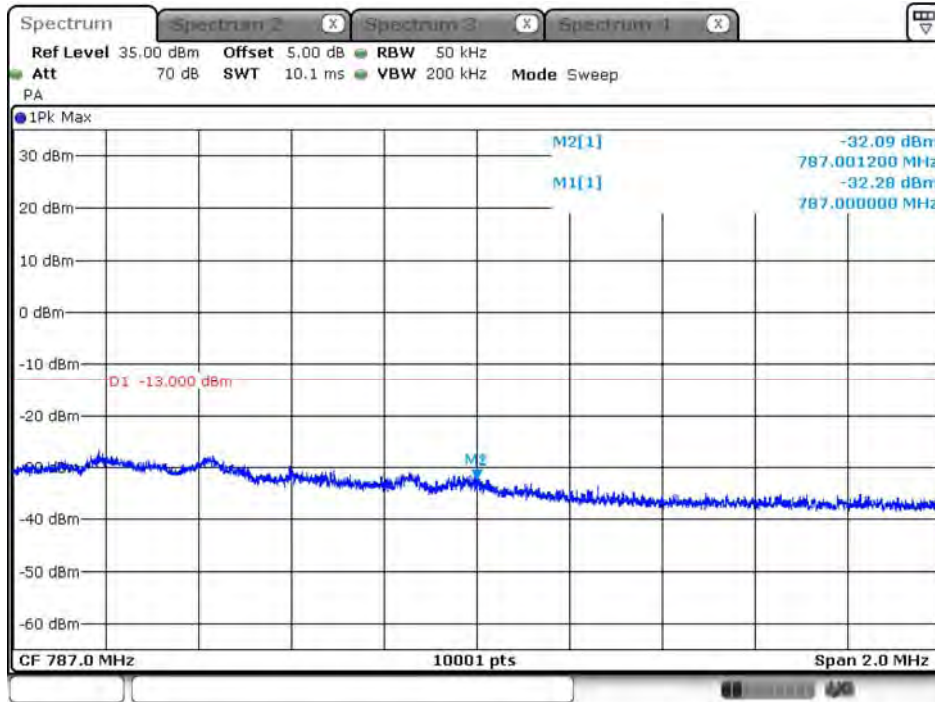
### CH23255\_10M\_QPSK\_1RB49



Date: 7 APR 2018 10:18:50

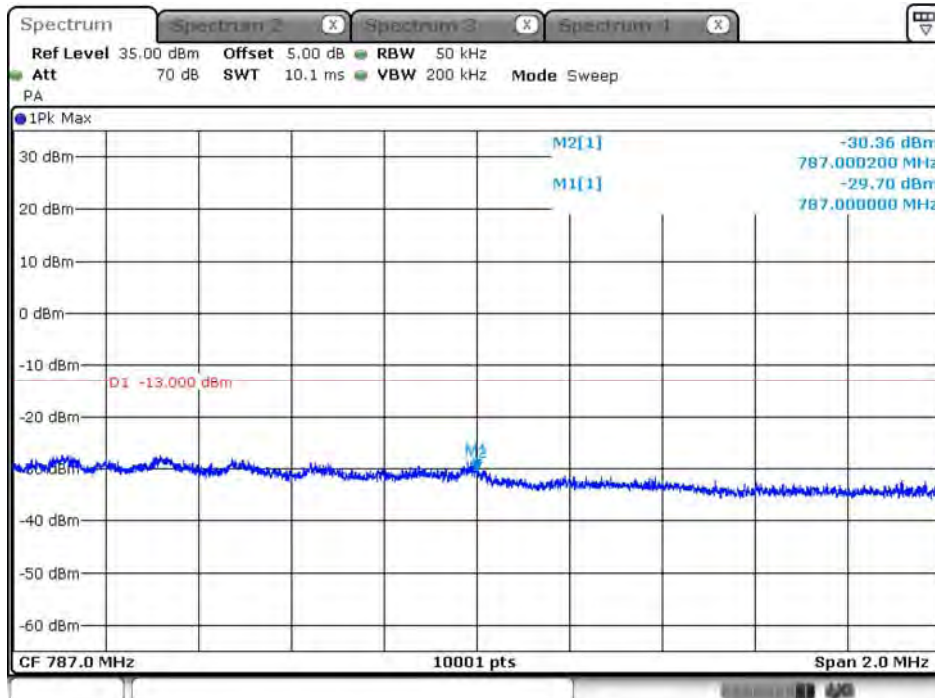


### CH23255\_10M\_QPSK\_25RB0



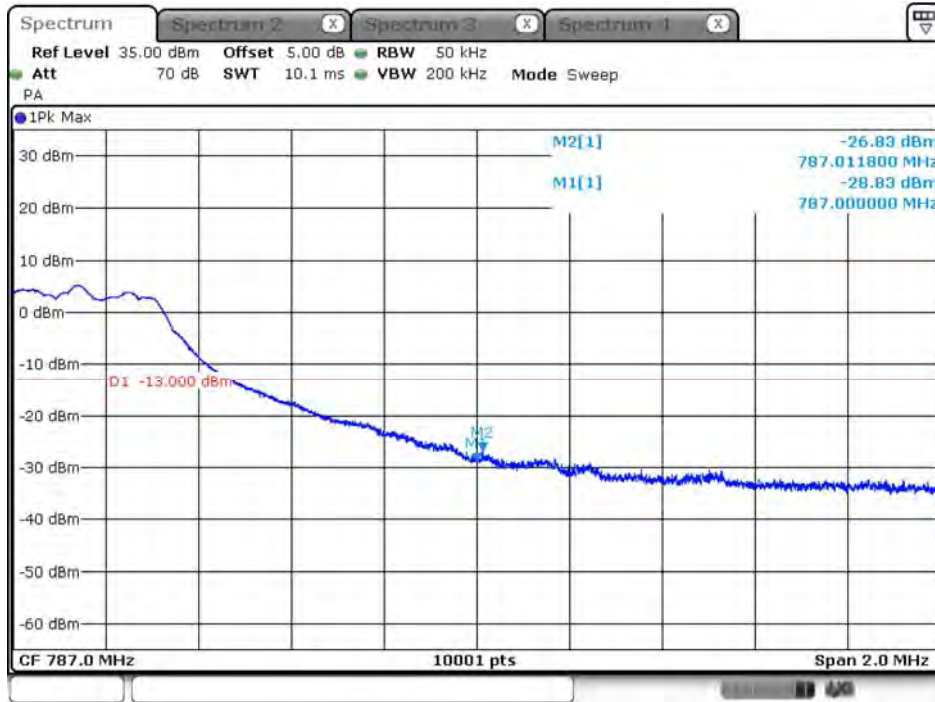
Date: 7 APR 2018 10:21:23

### CH23255\_10M\_QPSK\_25RB12



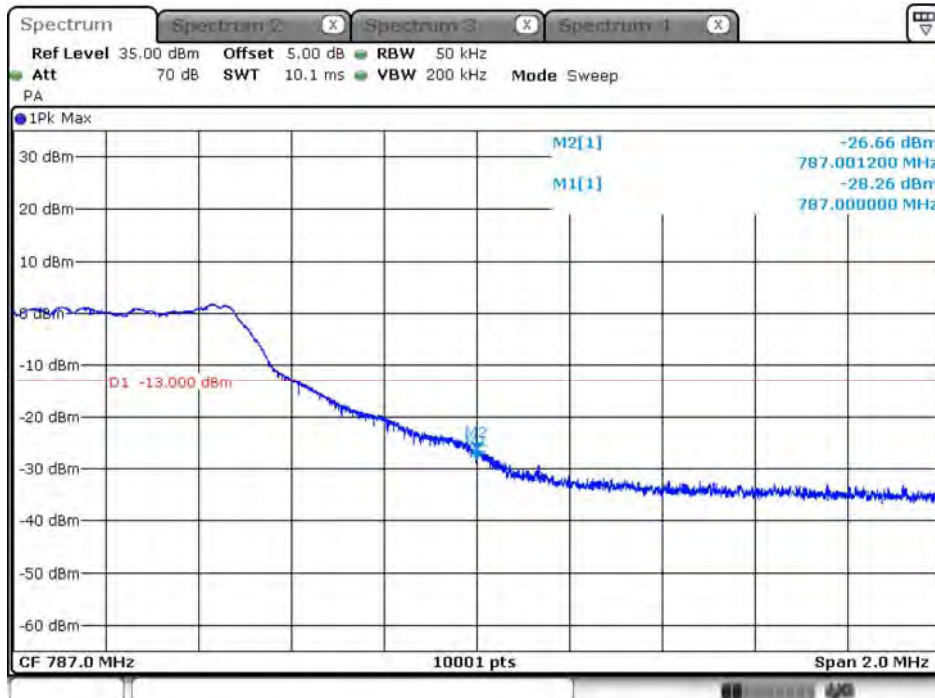
Date: 7 APR 2018 10:24:12

### CH23255\_10M\_QPSK\_25RB24



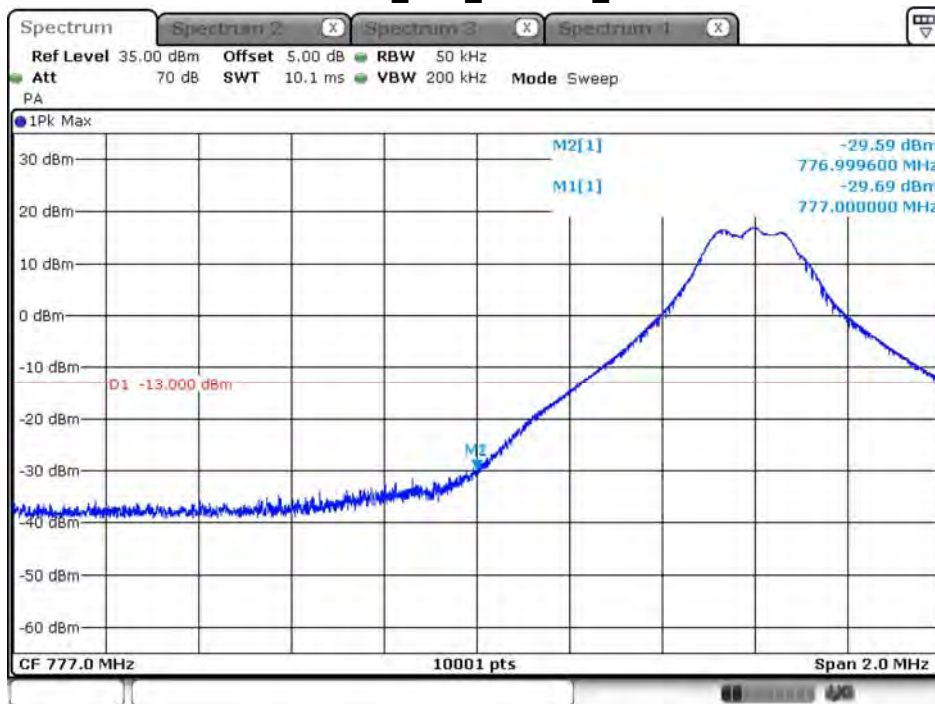
Date: 7 APR 2018 10:27:19

### CH23255\_10M\_QPSK\_50RB0



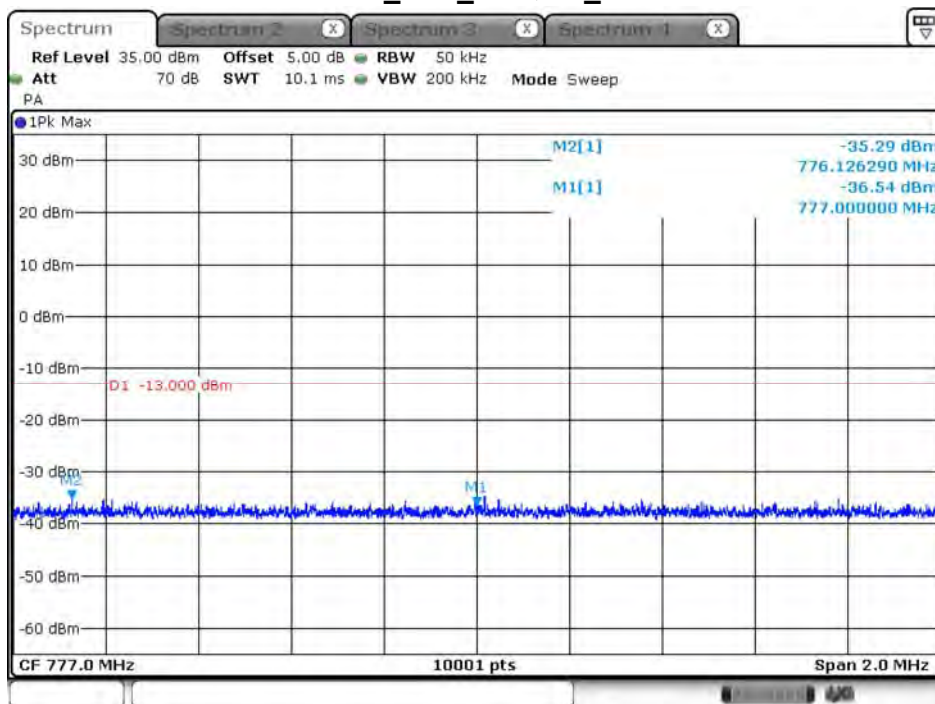
Date: 7 APR 2018 10:29:32

### CH23205\_10M\_16-QAM\_1RB0



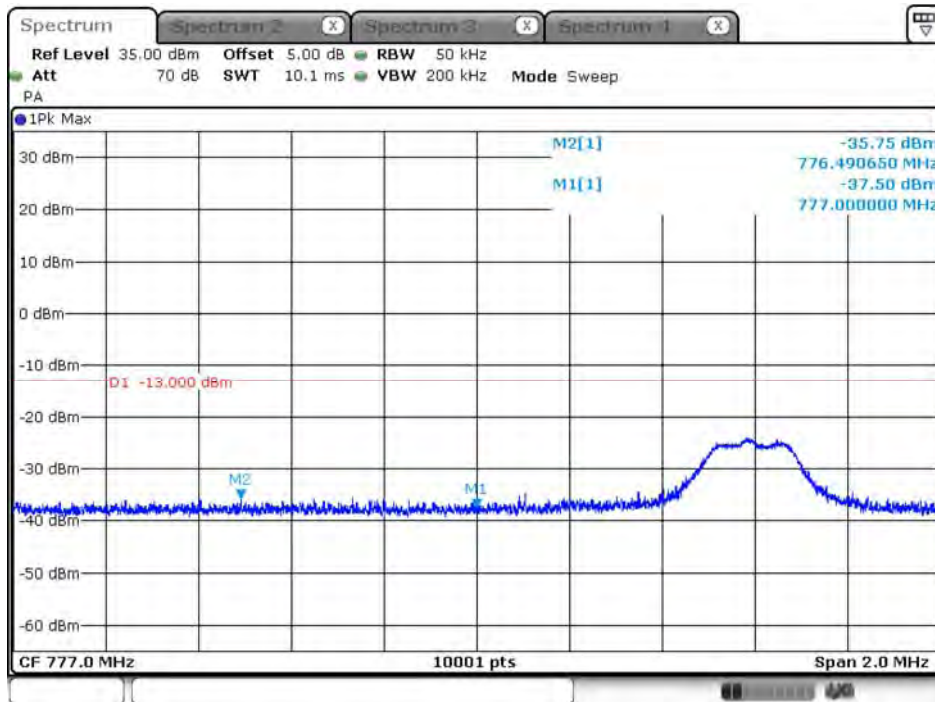
Date: 1. APR. 2018 17:27:42

### CH23205\_10M\_16-QAM\_1RB24



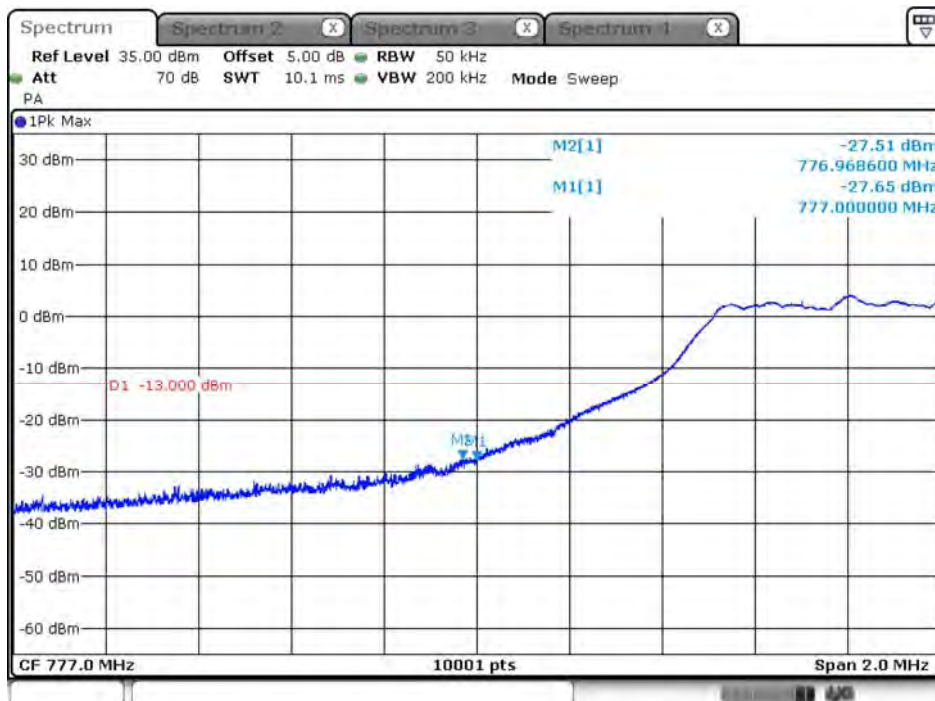
Date: 1. APR. 2018 17:32:37

### CH23205\_10M\_16-QAM\_1RB49



Date: 1. APR. 2018 17:39:45

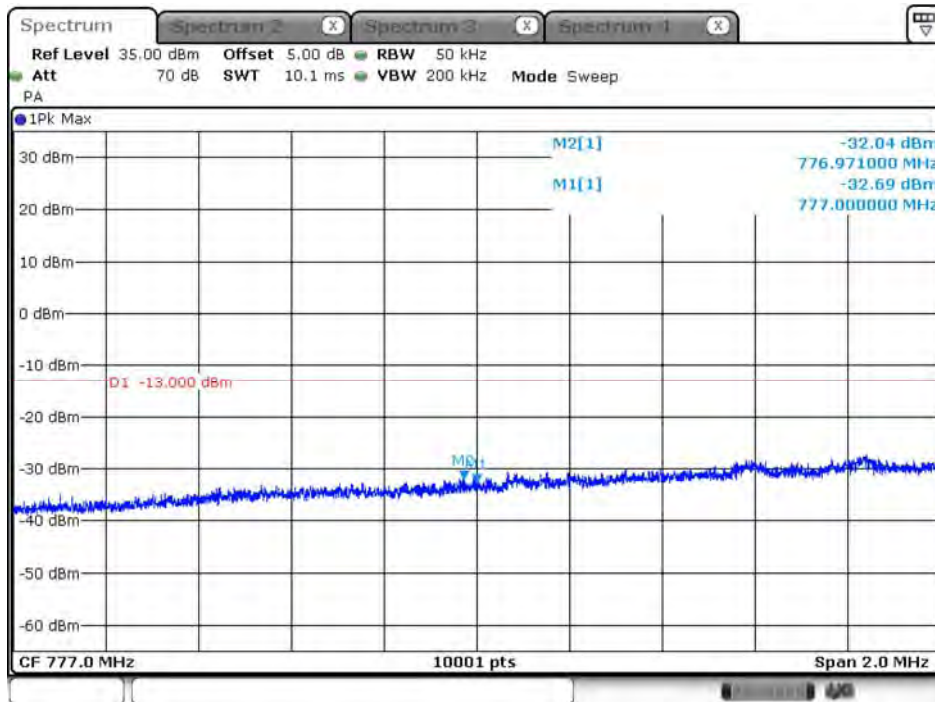
### CH23205\_10M\_16-QAM\_25RB0



Date: 1. APR. 2018 17:42:57

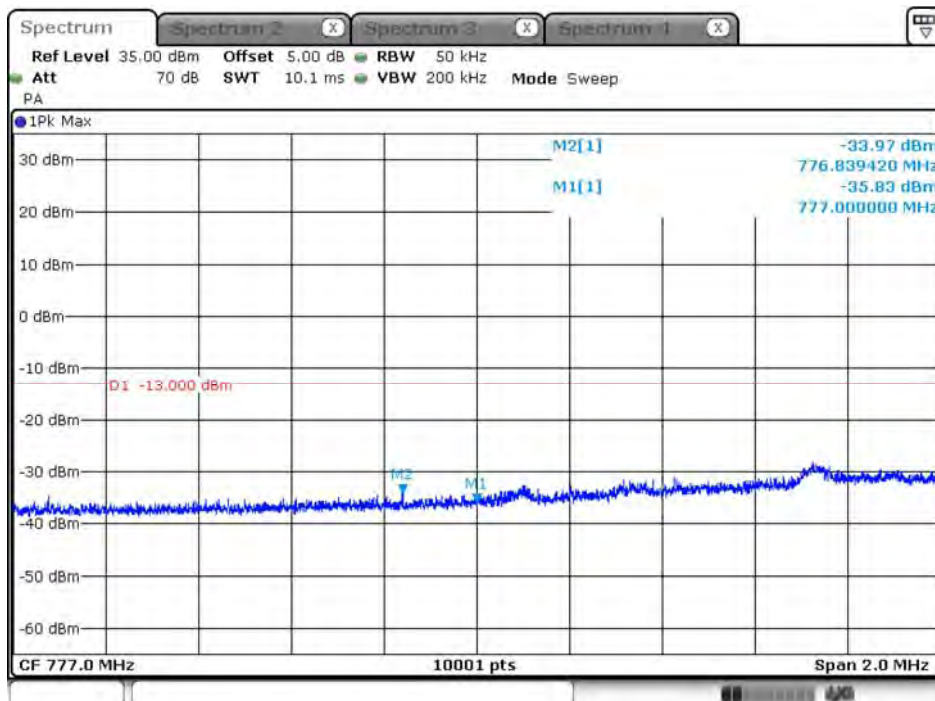


### CH23205\_10M\_16-QAM\_25RB12



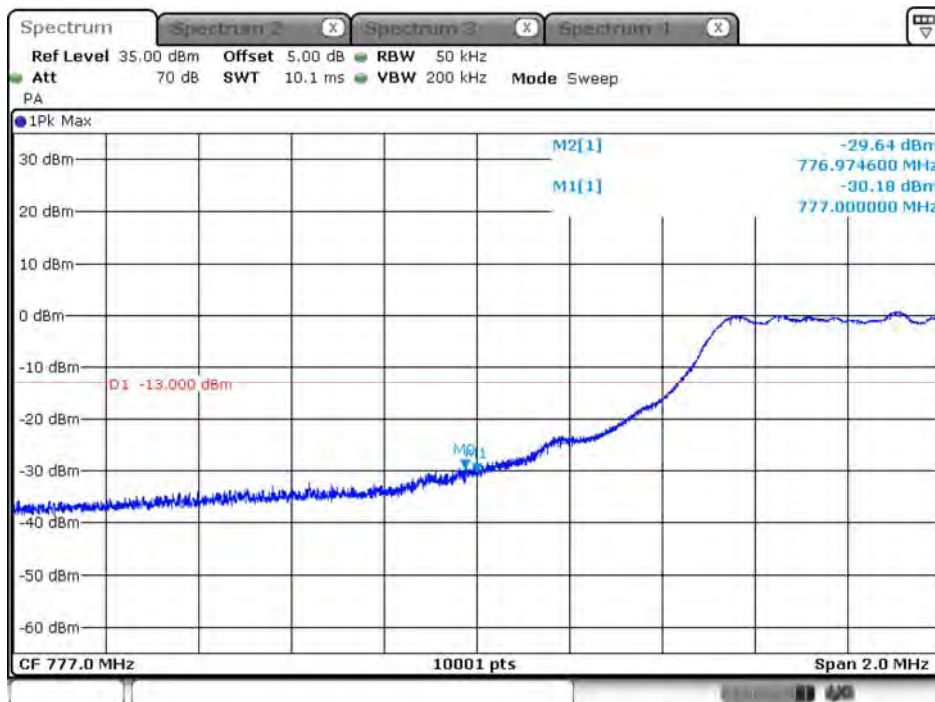
Date: 1.APR.2018 17:54:17

### CH23205\_10M\_16-QAM\_25RB24



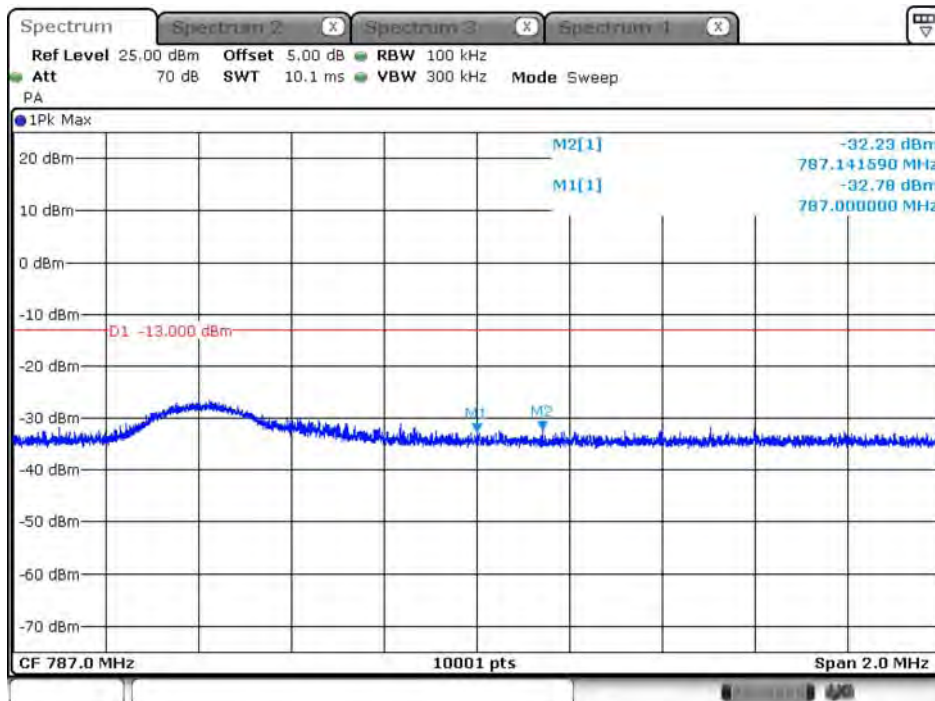
Date: 1.APR.2018 18:04:41

### CH23205\_10M\_16-QAM\_50RB0



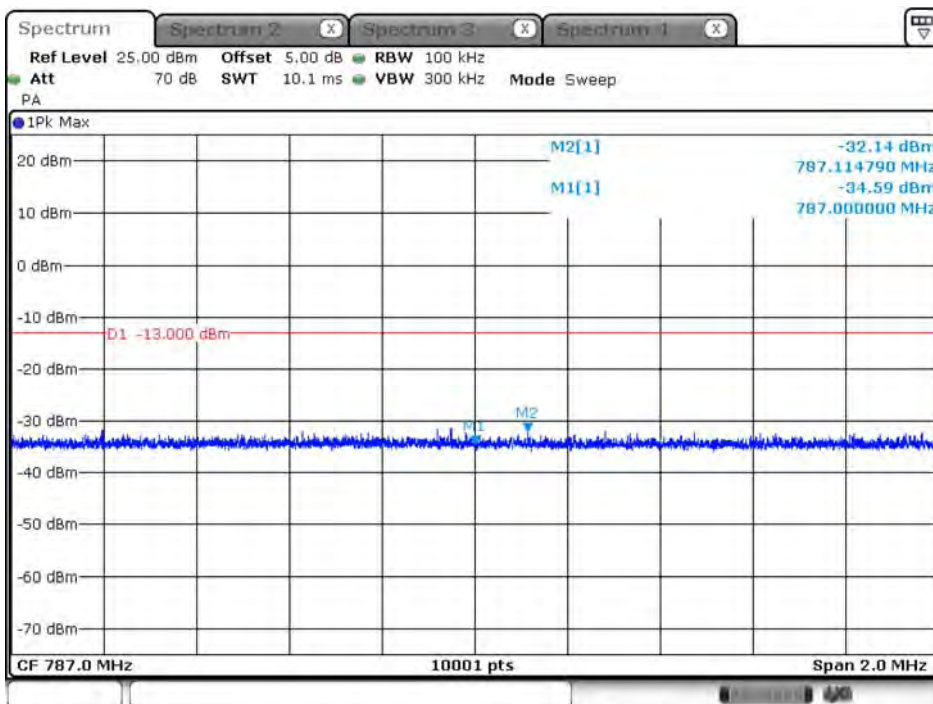
Date: 1. APR. 2018 17:57:29

### CH23255\_10M\_16-QAM\_1RB0



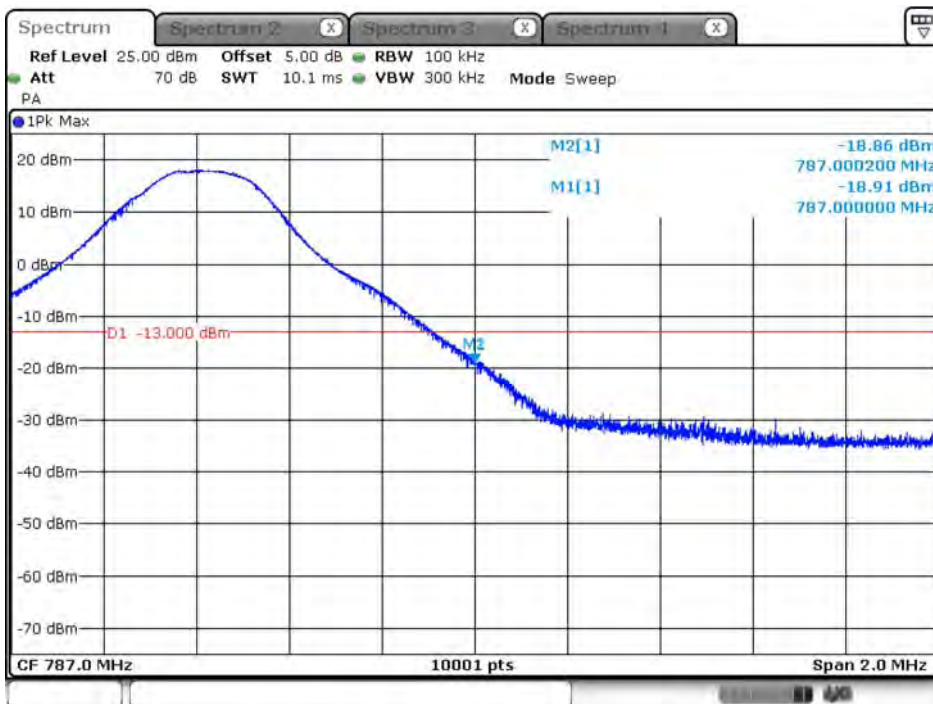
Date: 7. APR. 2018 17:19:27

### CH23255\_10M\_16-QAM\_1RB24



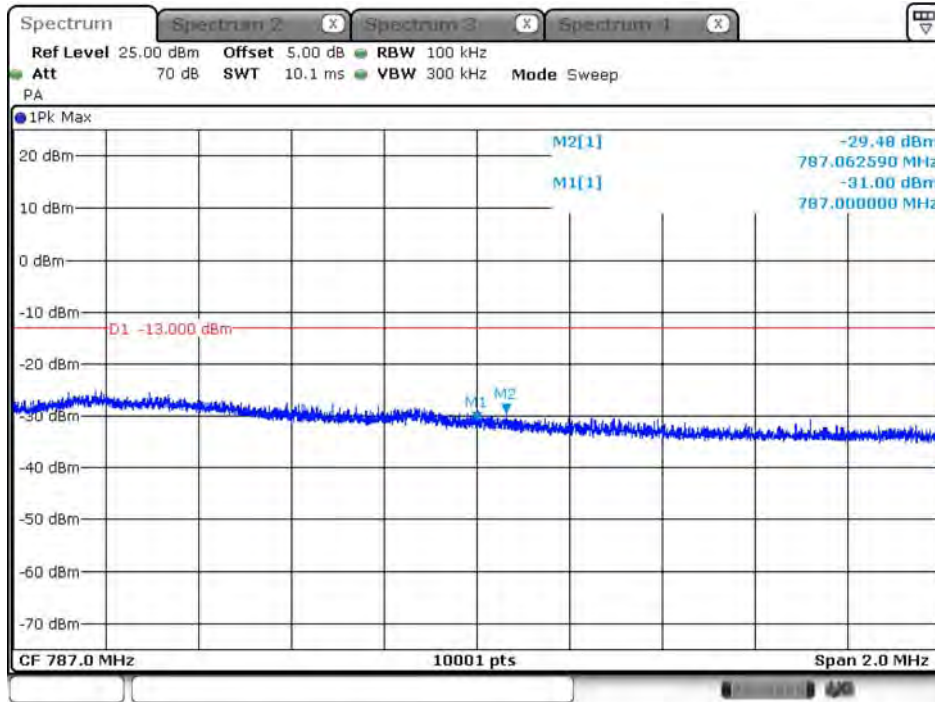
Date: 7 APR 2018 17:22:45

### CH23255\_10M\_16-QAM\_1RB49



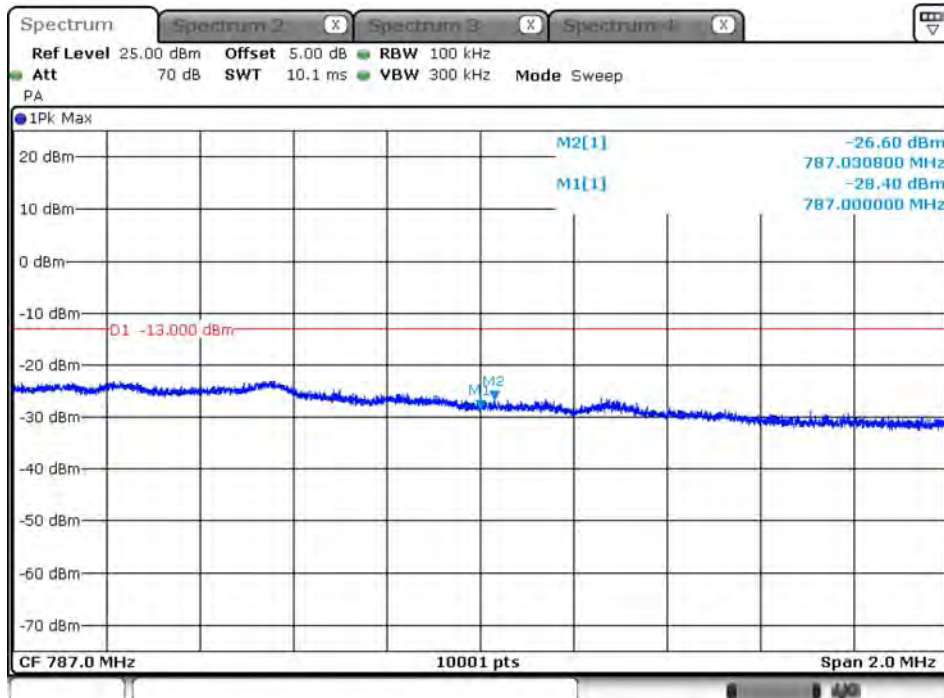
Date: 7 APR 2018 17:25:18

### CH23255\_10M\_16-QAM\_25RB0



Date: 7 APR 2018 17:27:19

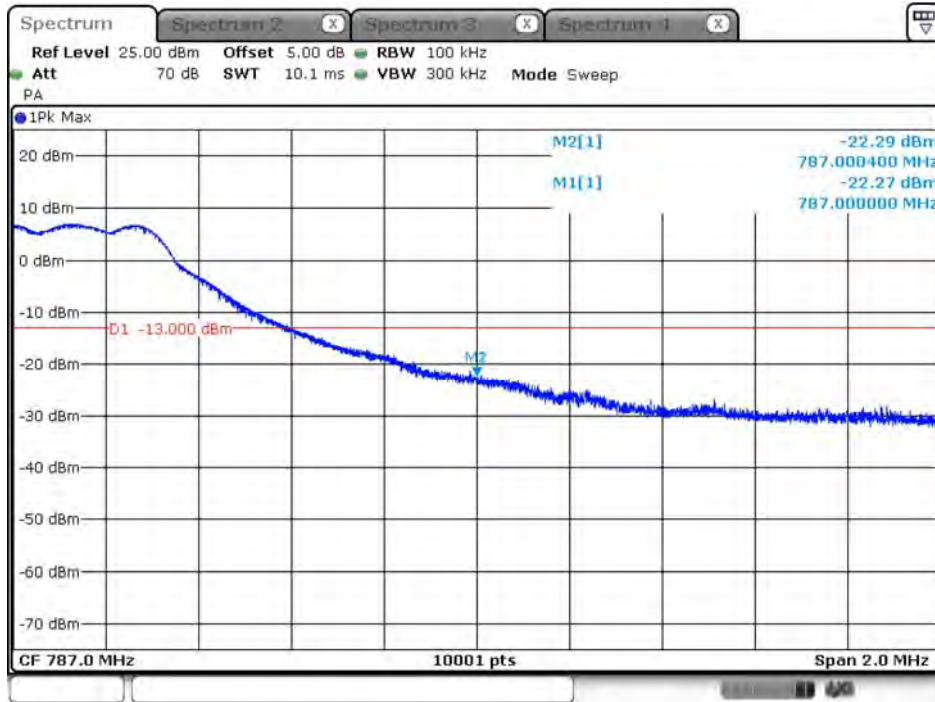
### CH23255\_10M\_16-QAM\_25RB12



Date: 7 APR 2018 17:39:21

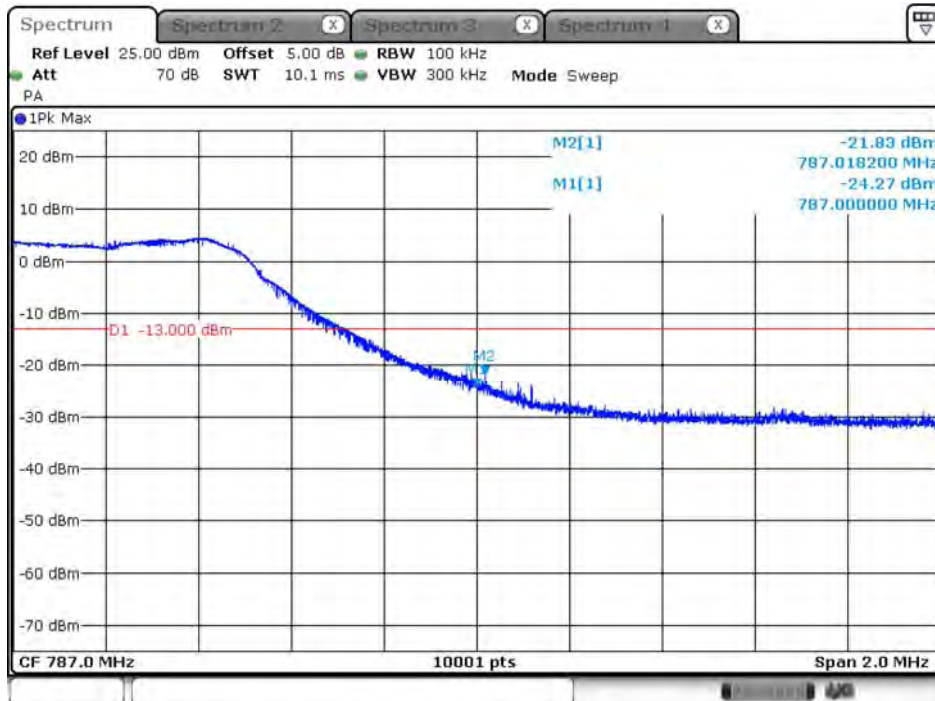


### CH23255\_10M\_16-QAM\_25RB24



Date: 7 APR 2018 17:42:35

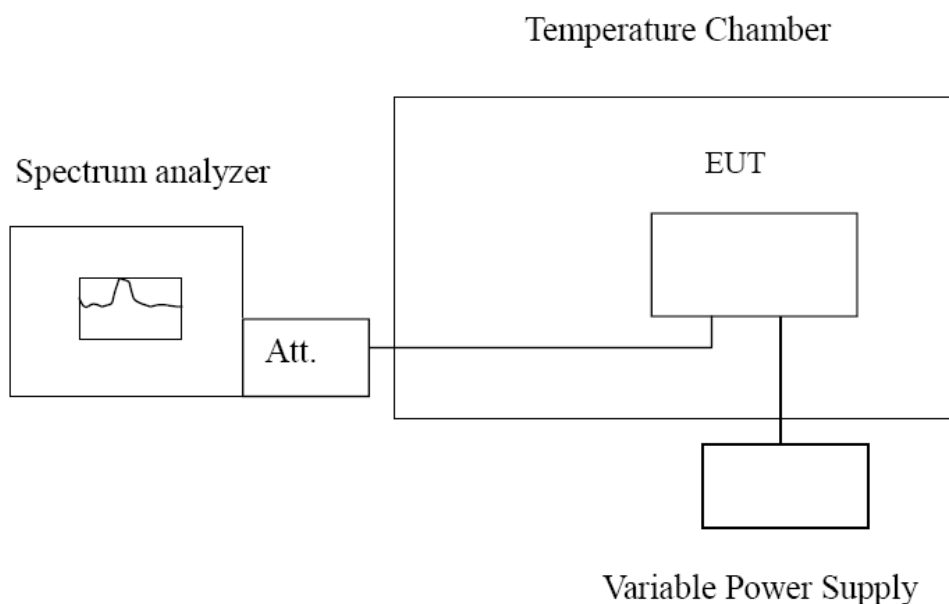
### CH23255\_10M\_16-QAM\_50RB0



Date: 7 APR 2018 17:51:22

## 8. Frequency Stability

### 8.1. Test Setup



### 8.2. Test Procedure

#### Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

#### Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

### 8.3. Test Result

Product	Module		
Test Item	Frequency Stability		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/10	Test Site	SR10-H

779.5 MHz

#### Frequency Stability under Voltage

DC Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-4	0.0049
3.7	-4	0.0053
3.4	-6	0.0076

#### Frequency Stability under Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-4	0.0056
-20	-4	0.0056
-10	-4	0.0048
0	-4	0.0046
+10	-5	0.0066
+20	-4	0.0055
+30	-5	0.0069
+40	-5	0.0068
+50	-5	0.0060

Product	Module		
Test Item	Frequency Stability		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/10	Test Site	SR10-H

782 MHz

## Frequency Stability under Voltage

DC Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	-5	0.0068
3.7	-5	0.0058
3.4	-5	0.0059

## Frequency Stability under Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	3	-0.0035
-20	-3	0.0037
-10	-3	0.0041
0	3	-0.0040
+10	-5	0.0061
+20	-4	0.0053
+30	-4	0.0053
+40	-3	0.0036
+50	3	-0.0043

Product	Module		
Test Item	Frequency Stability		
Test Mode	Mode 6: LTE Band 13		
Date of Test	2018/04/10	Test Site	SR10-H

784.5 MHz

Frequency Stability under Voltage

DC Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
4.2	3	-0.0037
3.7	3	-0.0038
3.4	4	-0.0052

Frequency Stability under Temperature

Temperature	Frequency Error (Hz)	Frequency Error (ppm)
-30	-3	0.0043
-20	2	-0.0029
-10	-4	0.0045
0	4	-0.0046
+10	5	-0.0069
+20	4	-0.0053
+30	5	-0.0058
+40	-4	0.0049
+50	-3	0.0043

\_\_\_\_\_ The End \_\_\_\_\_