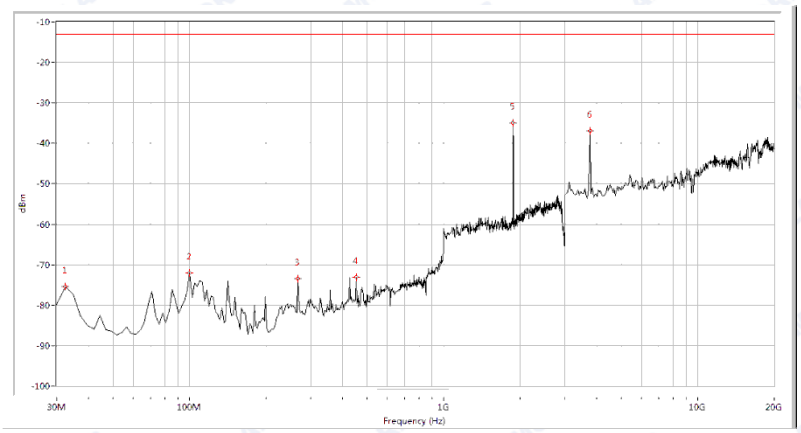
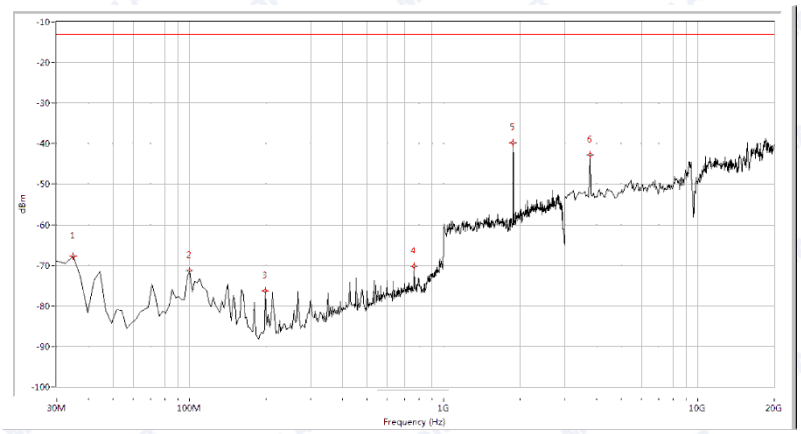
LTE Band 2 5MHz BW, Mid Channel, 16QAM

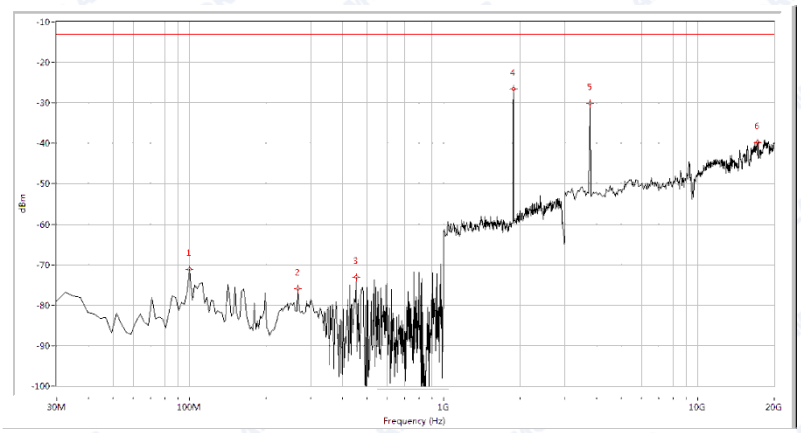


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-75.34	-13.0	62.3	Horizontal	PASS
100.150	-71.98	-13.0	59.0	Horizontal	PASS
267.057	-73.45	-13.0	60.4	Horizontal	PASS
453.317	-73.10	-13.0	60.1	Horizontal	PASS
1877.805	-34.90	-13.0	21.9	Horizontal	N.A
3763.092	-36.95	-13.0	23.9	Horizontal	PASS

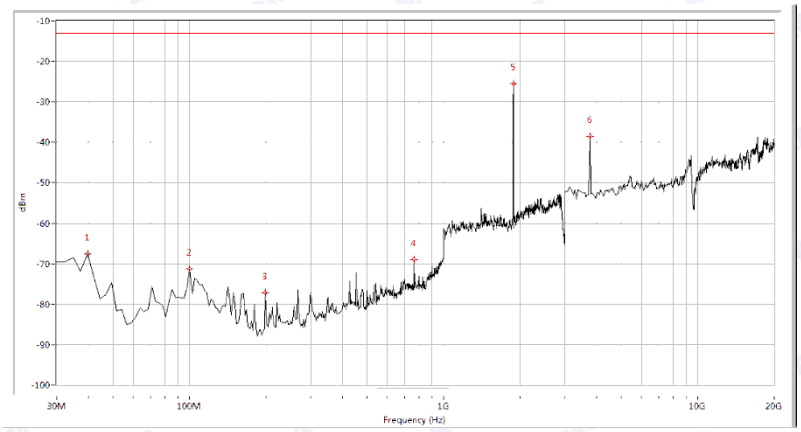


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-67.78	-13.0	54.8	Vertical	PASS
100.150	-71.36	-13.0	58.4	Vertical	PASS
199.327	-76.29	-13.0	63.3	Vertical	PASS
765.362	-70.23	-13.0	57.2	Vertical	PASS
1877.805	-39.72	-13.0	26.7	Vertical	N.A
3763.092	-42.83	-13.0	29.8	Vertical	PASS

LTE Band 2 10MHz BW, Mid Channel, QPSK

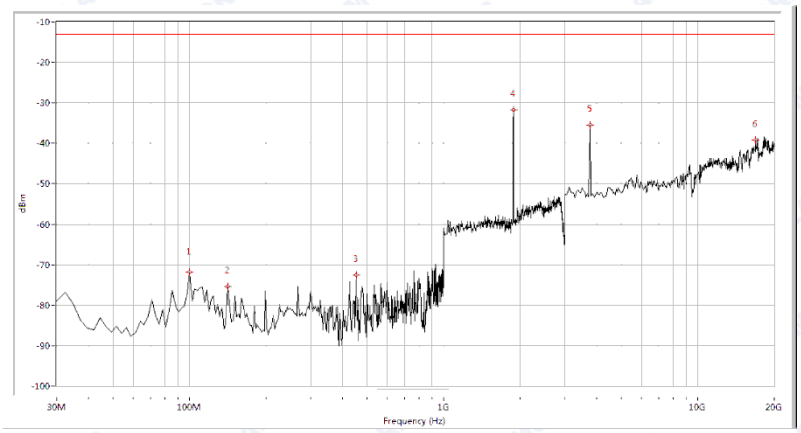


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.07	-13.0	58.1	Horizontal	PASS
267.057	-75.97	-13.0	63.0	Horizontal	PASS
453.317	-73.06	-13.0	60.1	Horizontal	PASS
1882.793	-26.66	-13.0	13.7	Horizontal	N.A
3763.092	-30.21	-13.0	17.2	Horizontal	PASS
17159.601	-39.70	-13.0	26.7	Horizontal	PASS

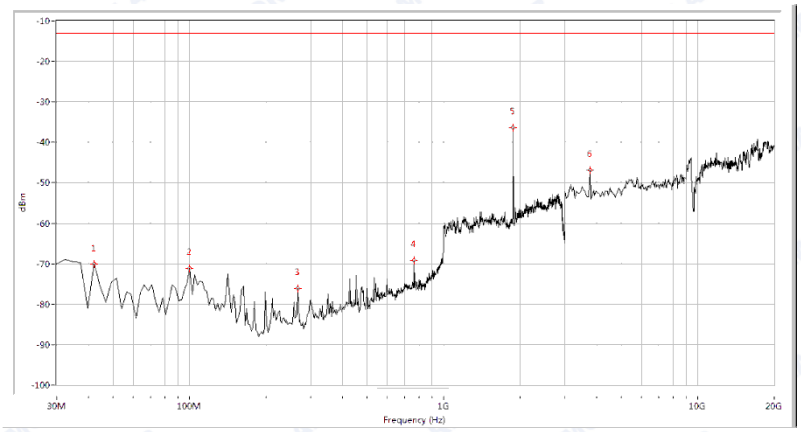


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
39.676	-67.65	-13.0	54.7	Vertical	PASS
100.150	-71.32	-13.0	58.3	Vertical	PASS
199.327	-77.26	-13.0	64.3	Vertical	PASS
765.362	-69.01	-13.0	56.0	Vertical	PASS
1882.793	-25.47	-13.0	12.5	Vertical	N.A
3763.092	-38.47	-13.0	25.5	Vertical	PASS

LTE Band 2 10MHz BW, Mid Channel, 16QAM

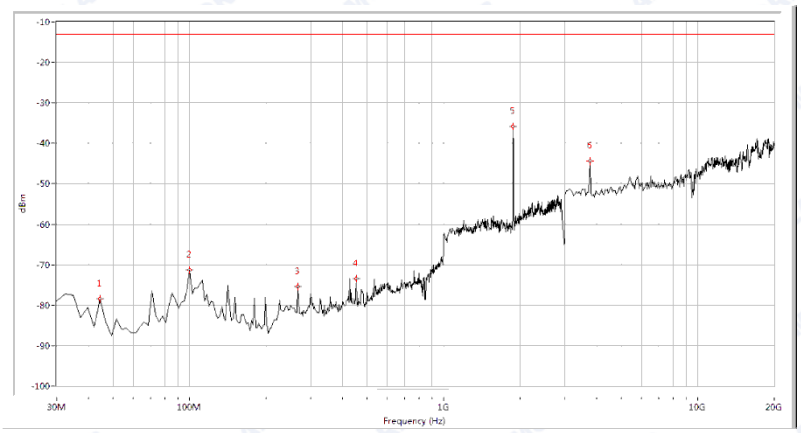


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.83	-13.0	58.8	Horizontal	PASS
141.272	-75.46	-13.0	62.5	Horizontal	PASS
453.317	-72.62	-13.0	59.6	Horizontal	PASS
1882.793	-31.68	-13.0	18.7	Horizontal	N.A
3763.092	-35.48	-13.0	22.5	Horizontal	PASS
16862.843	-39.24	-13.0	26.2	Horizontal	PASS

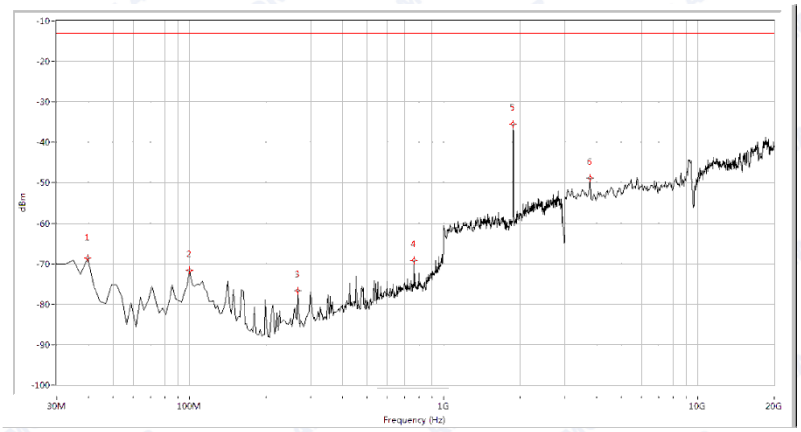


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
42.095	-70.09	-13.0	57.1	Vertical	PASS
100.150	-71.21	-13.0	58.2	Vertical	PASS
267.057	-76.07	-13.0	63.1	Vertical	PASS
765.362	-69.08	-13.0	56.1	Vertical	PASS
1872.818	-36.38	-13.0	23.4	Vertical	N.A
3763.092	-46.92	-13.0	33.9	Vertical	PASS

LTE Band 2 15MHz BW, Mid Channel, QPSK

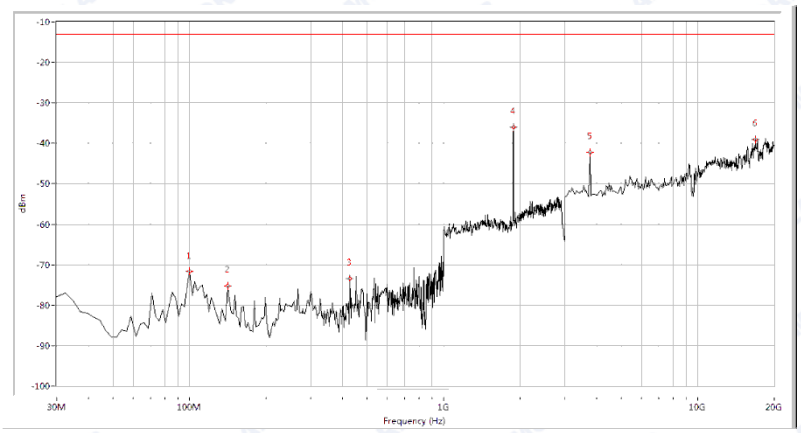


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
44.514	-78.35	-13.0	65.3	Horizontal	PASS
100.150	-71.39	-13.0	58.4	Horizontal	PASS
267.057	-75.32	-13.0	62.3	Horizontal	PASS
453.317	-73.37	-13.0	60.4	Horizontal	PASS
1872.818	-35.83	-13.0	22.8	Horizontal	N.A
3763.092	-44.34	-13.0	31.3	Horizontal	PASS

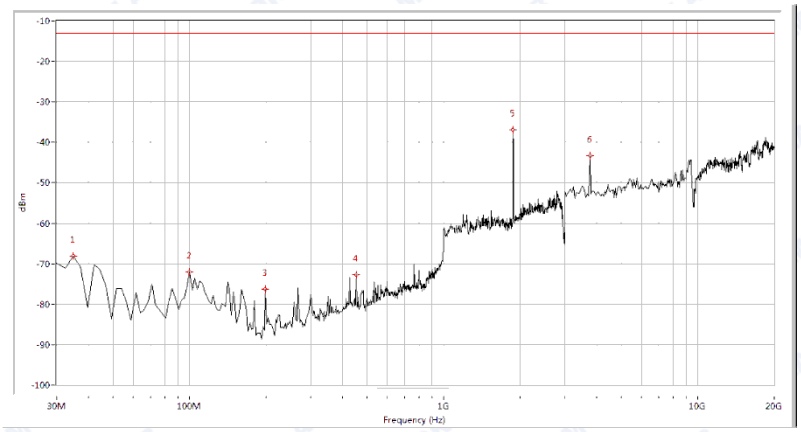


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
39.676	-68.65	-13.0	55.6	Vertical	PASS
100.150	-71.63	-13.0	58.6	Vertical	PASS
267.057	-76.67	-13.0	63.7	Vertical	PASS
765.362	-69.12	-13.0	56.1	Vertical	PASS
1872.818	-35.40	-13.0	22.4	Vertical	N.A
3763.092	-48.82	-13.0	35.8	Vertical	PASS

LTE Band 2 15MHz BW, Mid Channel, 16QAM

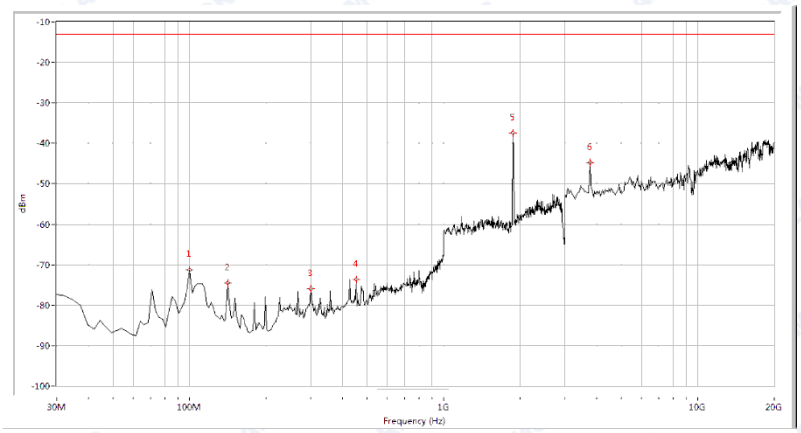


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.69	-13.0	58.7	Horizontal	PASS
141.272	-75.25	-13.0	62.2	Horizontal	PASS
426.708	-73.42	-13.0	60.4	Horizontal	PASS
1882.793	-35.95	-13.0	22.9	Horizontal	N.A
3763.092	-42.23	-13.0	29.2	Horizontal	PASS
16820.449	-39.09	-13.0	26.1	Horizontal	PASS

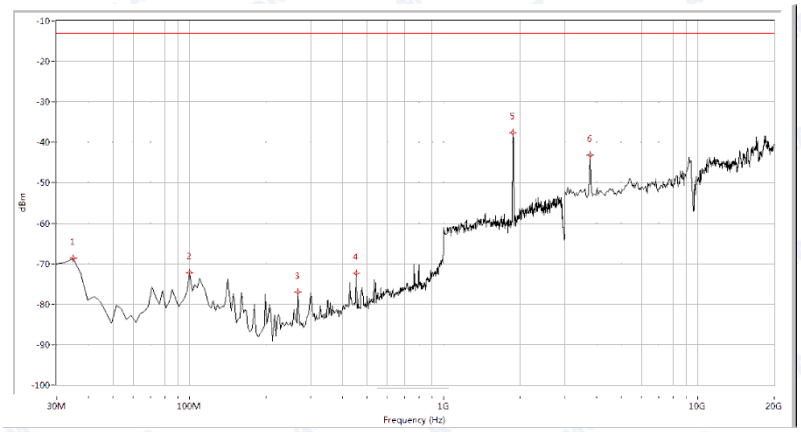


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.02	-13.0	55.0	Vertical	PASS
100.150	-71.99	-13.0	59.0	Vertical	PASS
199.327	-76.31	-13.0	63.3	Vertical	PASS
453.317	-72.65	-13.0	59.6	Vertical	PASS
1872.818	-36.89	-13.0	23.9	Vertical	N.A
3763.092	-43.37	-13.0	30.4	Vertical	PASS

LTE Band 2 20MHz BW, Mid Channel, QPSK

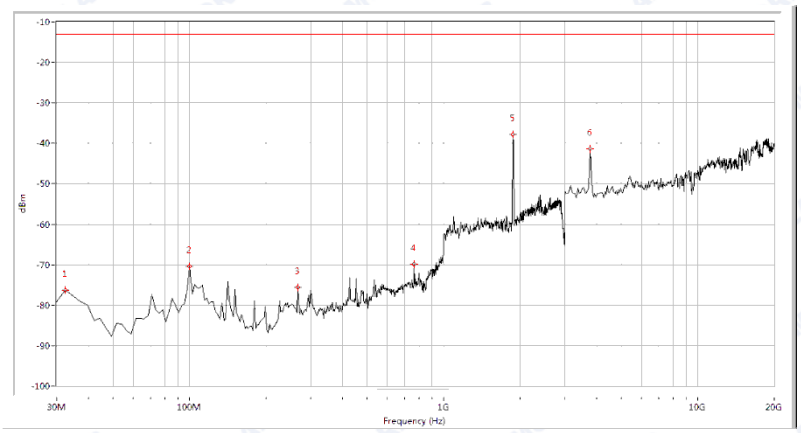


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.28	-13.0	58.3	Horizontal	PASS
141.272	-74.54	-13.0	61.5	Horizontal	PASS
300.923	-75.94	-13.0	62.9	Horizontal	PASS
453.317	-73.62	-13.0	60.6	Horizontal	PASS
1867.830	-37.43	-13.0	24.4	Horizontal	N.A
3763.092	-44.73	-13.0	31.7	Horizontal	PASS

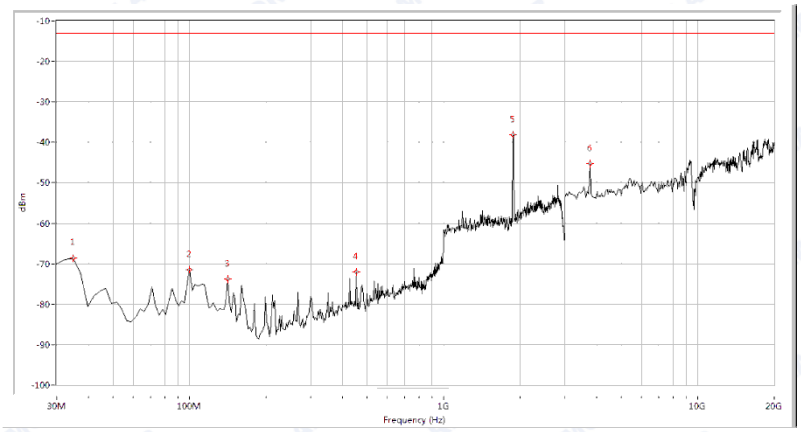


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.70	-13.0	55.7	Vertical	PASS
100.150	-72.24	-13.0	59.2	Vertical	PASS
267.057	-77.07	-13.0	64.1	Vertical	PASS
453.317	-72.37	-13.0	59.4	Vertical	PASS
1872.818	-37.63	-13.0	24.6	Vertical	N.A
3763.092	-43.12	-13.0	30.1	Vertical	PASS

LTE Band 2 20MHz BW, Mid Channel, 16QAM

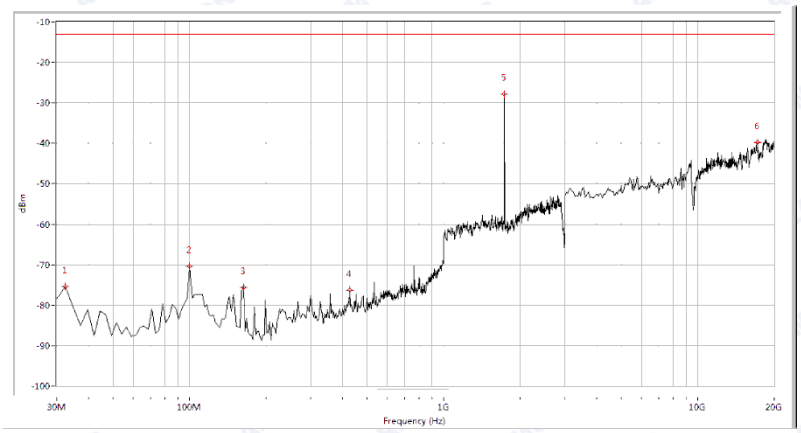


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-76.28	-13.0	63.3	Horizontal	PASS
100.150	-70.42	-13.0	57.4	Horizontal	PASS
267.057	-75.58	-13.0	62.6	Horizontal	PASS
765.362	-69.84	-13.0	56.8	Horizontal	PASS
1872.818	-37.88	-13.0	24.9	Horizontal	N.A
3763.092	-41.46	-13.0	28.5	Horizontal	PASS

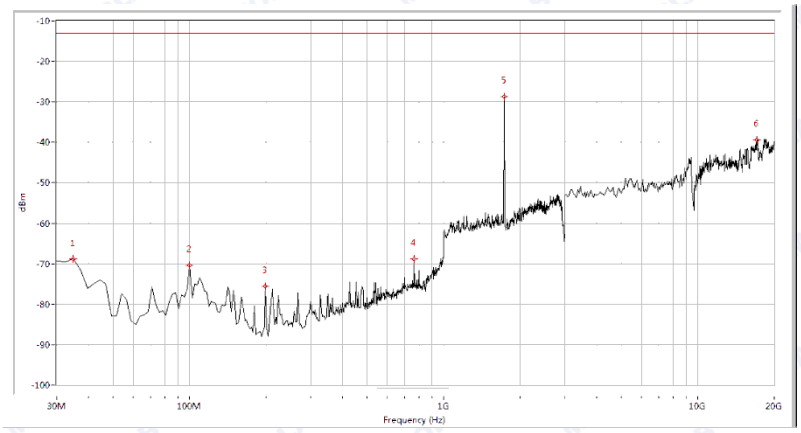


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.55	-13.0	55.5	Vertical	PASS
100.150	-71.57	-13.0	58.6	Vertical	PASS
141.272	-73.89	-13.0	60.9	Vertical	PASS
453.317	-71.96	-13.0	59.0	Vertical	PASS
1872.818	-38.14	-13.0	25.1	Vertical	N.A
3763.092	-45.27	-13.0	32.3	Vertical	PASS

LTE Band 4 1.4MHz BW, Mid Channel, QPSK

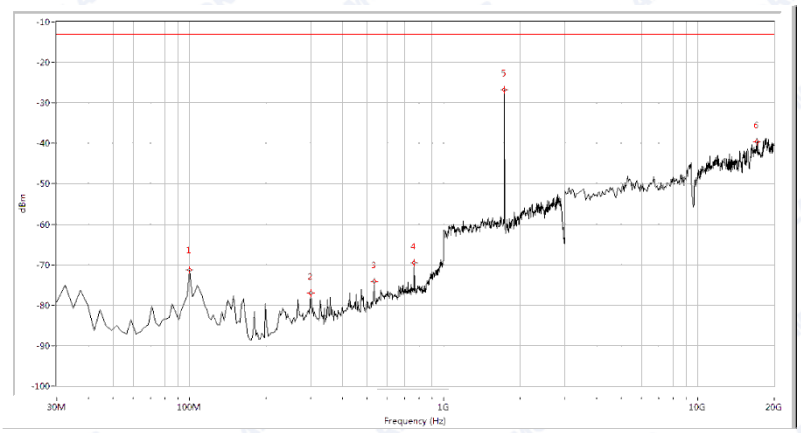


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-75.40	-13.0	62.4	Horizontal	PASS
100.150	-70.39	-13.0	57.4	Horizontal	PASS
163.042	-75.59	-13.0	62.6	Horizontal	PASS
426.708	-76.27	-13.0	63.3	Horizontal	PASS
1733.167	-27.74	-13.0	14.7	Horizontal	N.A
17159.601	-39.70	-13.0	26.7	Horizontal	PASS

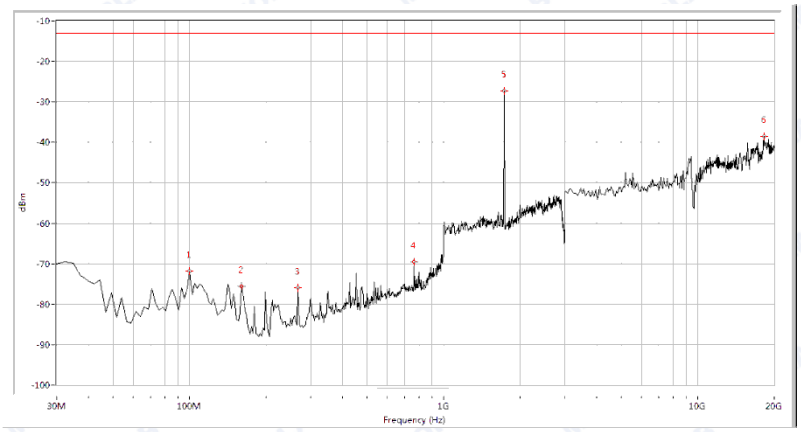


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.90	-13.0	55.9	Vertical	PASS
100.150	-70.45	-13.0	57.4	Vertical	PASS
199.327	-75.67	-13.0	62.7	Vertical	PASS
765.362	-68.90	-13.0	55.9	Vertical	PASS
1733.167	-28.69	-13.0	15.7	Vertical	N.A
17117.207	-39.44	-13.0	26.4	Vertical	PASS

LTE Band 4 1.4MHz BW, Mid Channel, 16QAM

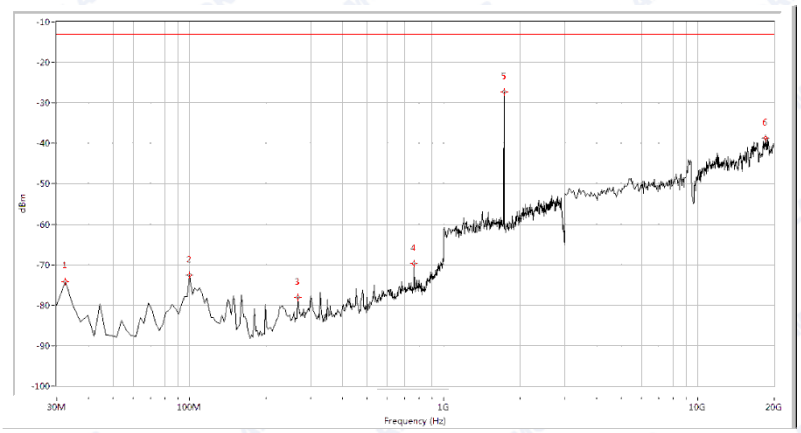


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.31	-13.0	58.3	Horizontal	PASS
300.923	-76.95	-13.0	64.0	Horizontal	PASS
533.142	-74.10	-13.0	61.1	Horizontal	PASS
765.362	-69.51	-13.0	56.5	Horizontal	PASS
1733.167	-26.74	-13.0	13.7	Horizontal	N.A
17117.207	-39.65	-13.0	26.6	Horizontal	PASS

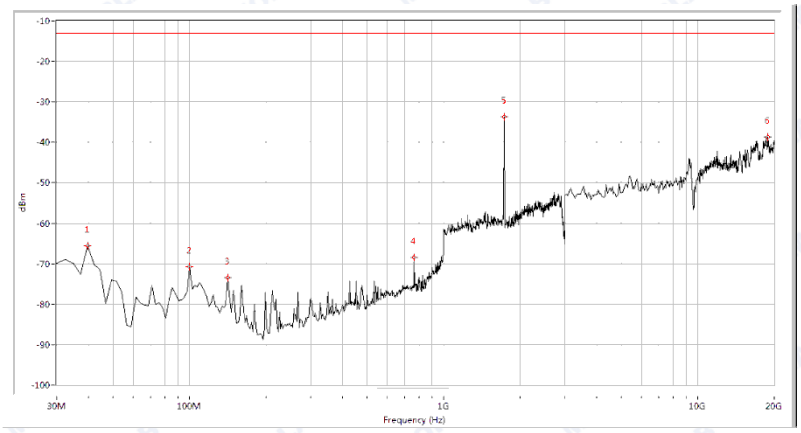


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.81	-13.0	58.8	Vertical	PASS
160.623	-75.60	-13.0	62.6	Vertical	PASS
267.057	-76.02	-13.0	63.0	Vertical	PASS
765.362	-69.59	-13.0	56.6	Vertical	PASS
1733.167	-27.34	-13.0	14.3	Vertical	N.A
18219.451	-38.55	-13.0	25.6	Vertical	PASS

LTE Band 4 3MHz BW, Mid Channel, QPSK

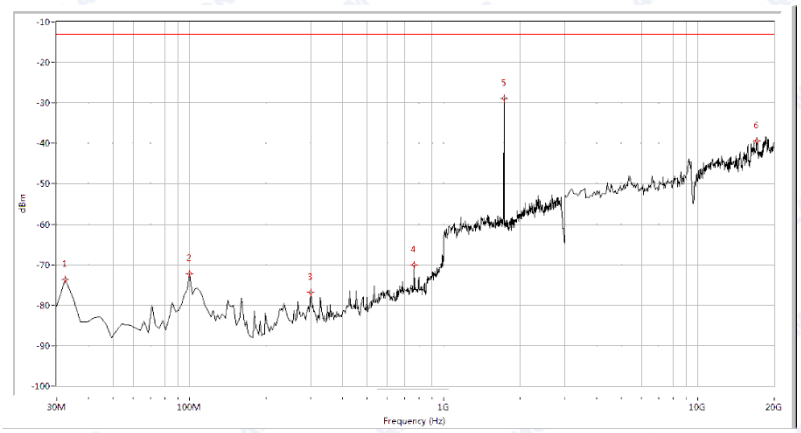


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-74.19	-13.0	61.2	Horizontal	PASS
100.150	-72.47	-13.0	59.5	Horizontal	PASS
267.057	-78.11	-13.0	65.1	Horizontal	PASS
765.362	-69.64	-13.0	56.6	Horizontal	PASS
1728.180	-27.21	-13.0	14.2	Horizontal	N.A
18473.815	-38.61	-13.0	25.6	Horizontal	PASS

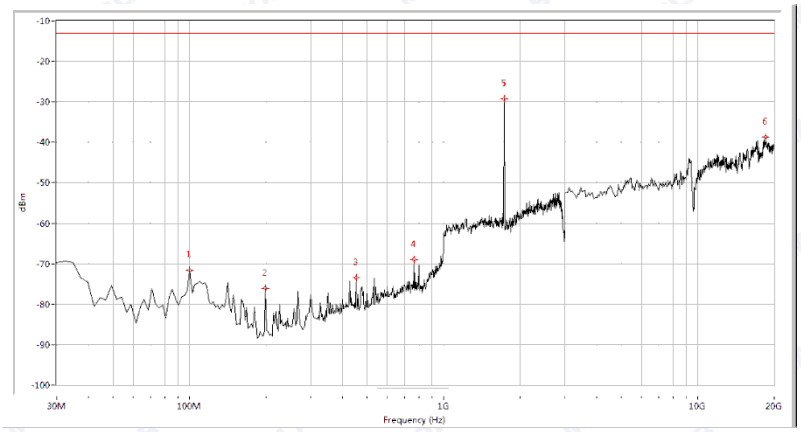


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
39.676	-65.60	-13.0	52.6	Vertical	PASS
100.150	-70.79	-13.0	57.8	Vertical	PASS
141.272	-73.39	-13.0	60.4	Vertical	PASS
765.362	-68.39	-13.0	55.4	Vertical	PASS
1728.180	-33.65	-13.0	20.7	Vertical	N.A
18897.756	-38.77	-13.0	25.8	Vertical	PASS

LTE Band 4 3MHz BW, Mid Channel, 16QAM

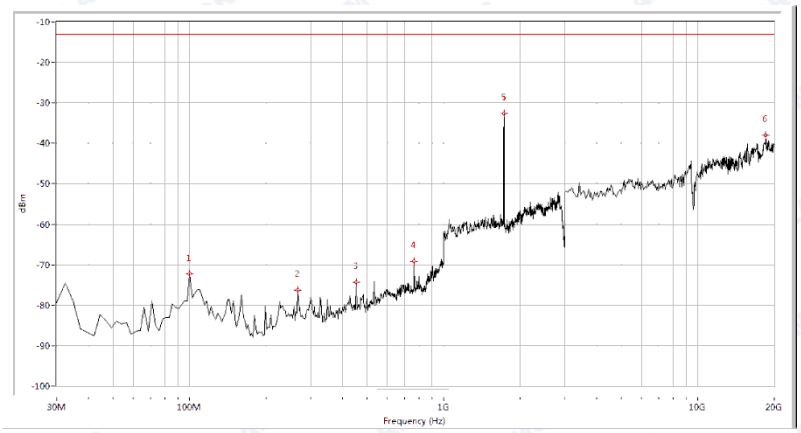


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-73.57	-13.0	60.6	Horizontal	PASS
100.150	-72.12	-13.0	59.1	Horizontal	PASS
300.923	-76.83	-13.0	63.8	Horizontal	PASS
765.362	-70.13	-13.0	57.1	Horizontal	PASS
1728.180	-28.86	-13.0	15.9	Horizontal	N.A
17074.813	-39.40	-13.0	26.4	Horizontal	PASS

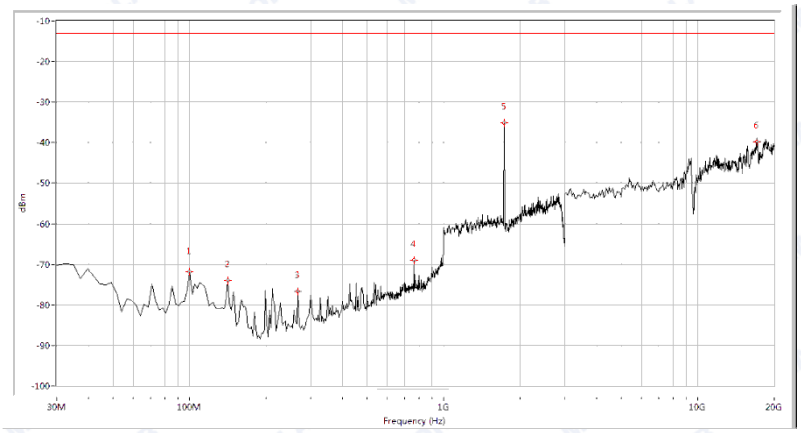


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.62	-13.0	58.6	Vertical	PASS
199.327	-76.14	-13.0	63.1	Vertical	PASS
453.317	-73.46	-13.0	60.5	Vertical	PASS
765.362	-69.04	-13.0	56.0	Vertical	PASS
1733.167	-29.32	-13.0	16.3	Vertical	N.A
18473.815	-38.68	-13.0	25.7	Vertical	PASS

LTE Band 4 5MHz BW, Mid Channel, QPSK

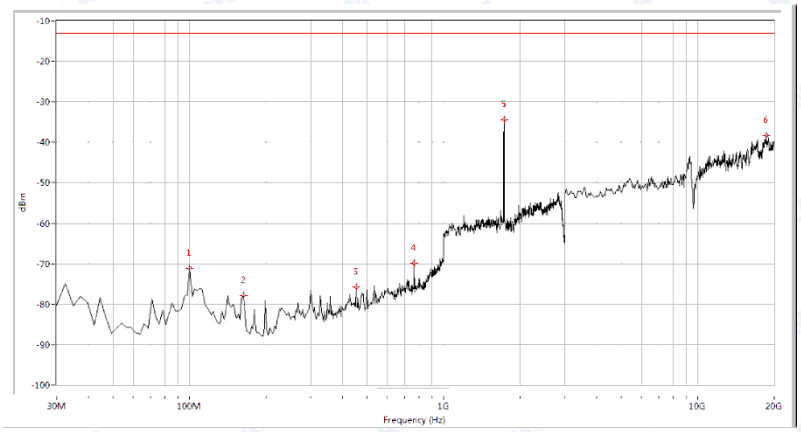


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-72.27	-13.0	59.3	Horizontal	PASS
267.057	-76.28	-13.0	63.3	Horizontal	PASS
453.317	-74.31	-13.0	61.3	Horizontal	PASS
765.362	-69.25	-13.0	56.2	Horizontal	PASS
1728.180	-32.60	-13.0	19.6	Horizontal	N.A
18473.815	-38.00	-13.0	25.0	Horizontal	PASS

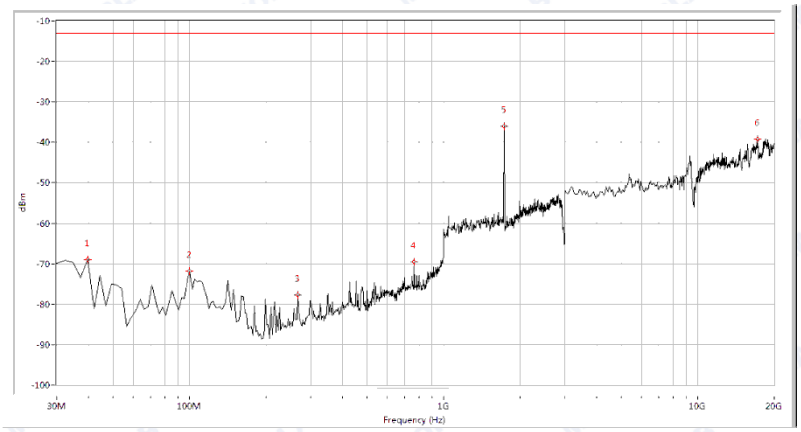


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.76	-13.0	58.8	Vertical	PASS
141.272	-73.95	-13.0	60.9	Vertical	PASS
267.057	-76.62	-13.0	63.6	Vertical	PASS
765.362	-69.00	-13.0	56.0	Vertical	PASS
1728.180	-35.18	-13.0	22.2	Vertical	N.A
17117.207	-39.80	-13.0	26.8	Vertical	PASS

LTE Band 4 5MHz BW, Mid Channel, 16QAM

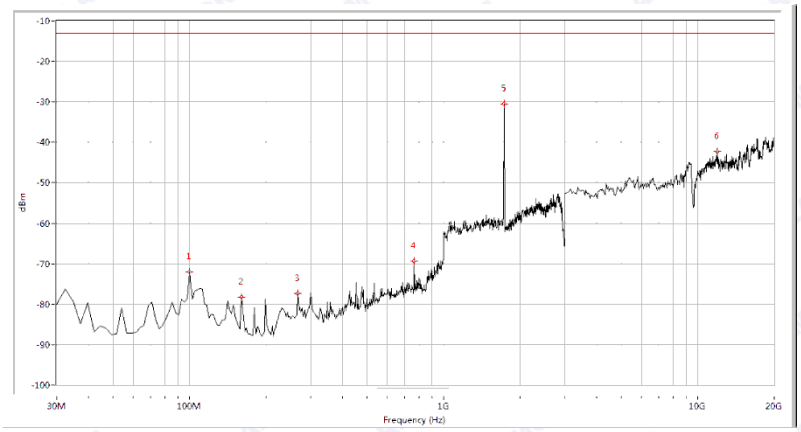


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.08	-13.0	58.1	Horizontal	PASS
163.042	-77.89	-13.0	64.9	Horizontal	PASS
453.317	-75.77	-13.0	62.8	Horizontal	PASS
765.362	-69.85	-13.0	56.9	Horizontal	PASS
1728.180	-34.44	-13.0	21.4	Horizontal	N.A
18643.392	-38.42	-13.0	25.4	Horizontal	PASS

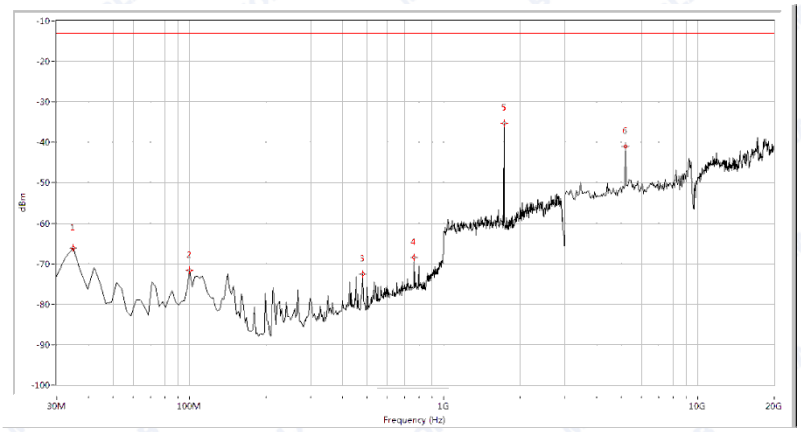


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
39.676	-68.94	-13.0	55.9	Vertical	PASS
100.150	-71.91	-13.0	58.9	Vertical	PASS
267.057	-77.77	-13.0	64.8	Vertical	PASS
765.362	-69.59	-13.0	56.6	Vertical	PASS
1728.180	-35.94	-13.0	22.9	Vertical	N.A
17159.601	-39.25	-13.0	26.2	Vertical	PASS

LTE Band 4 10MHz BW, Mid Channel, QPSK

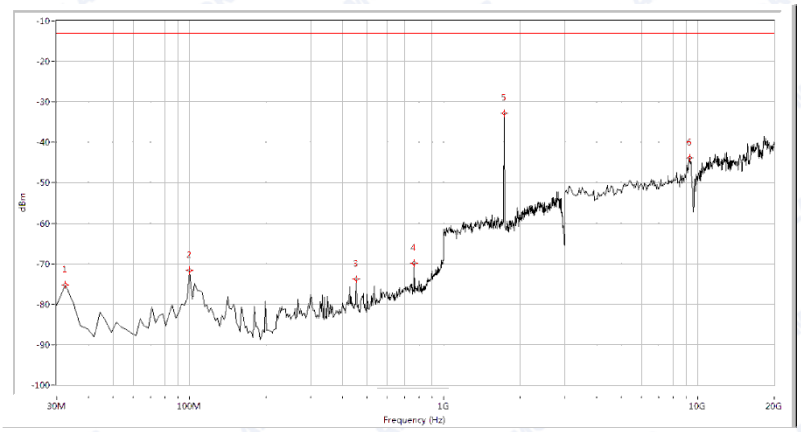


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-71.98	-13.0	59.0	Horizontal	PASS
160.623	-78.20	-13.0	65.2	Horizontal	PASS
267.057	-77.33	-13.0	64.3	Horizontal	PASS
765.362	-69.37	-13.0	56.4	Horizontal	PASS
1728.180	-30.48	-13.0	17.5	Horizontal	N.A
11902.743	-42.29	-13.0	29.3	Horizontal	PASS

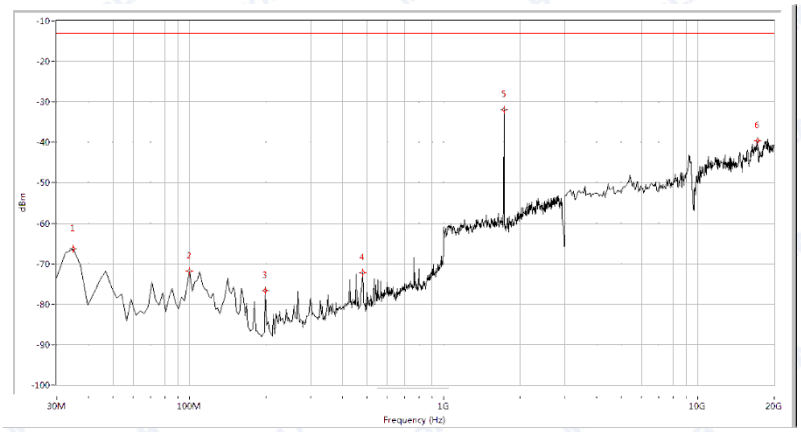


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-66.05	-13.0	53.1	Vertical	PASS
100.150	-71.61	-13.0	58.6	Vertical	PASS
479.925	-72.57	-13.0	59.6	Vertical	PASS
765.362	-68.41	-13.0	55.4	Vertical	PASS
1728.180	-35.26	-13.0	22.3	Vertical	N.A
5204.489	-41.00	-13.0	28.0	Vertical	PASS

LTE Band 4 10MHz BW, Mid Channel, 16QAM

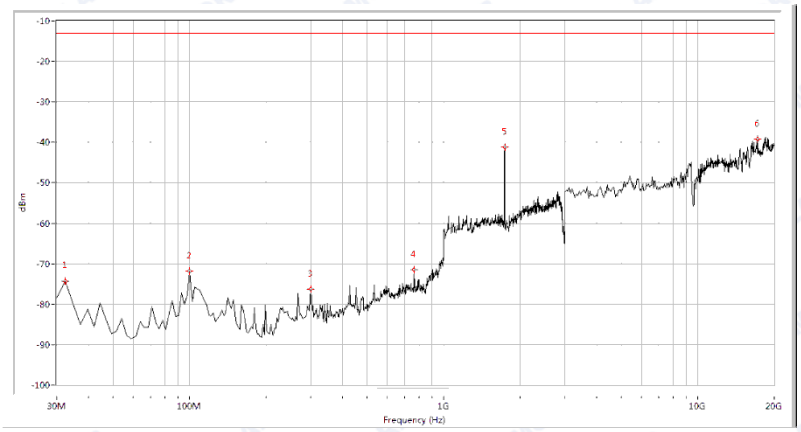


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-75.22	-13.0	62.2	Horizontal	PASS
100.150	-71.60	-13.0	58.6	Horizontal	PASS
453.317	-73.72	-13.0	60.7	Horizontal	PASS
765.362	-69.89	-13.0	56.9	Horizontal	PASS
1728.180	-32.79	-13.0	19.8	Horizontal	N.A
9316.708	-43.93	-13.0	30.9	Horizontal	PASS

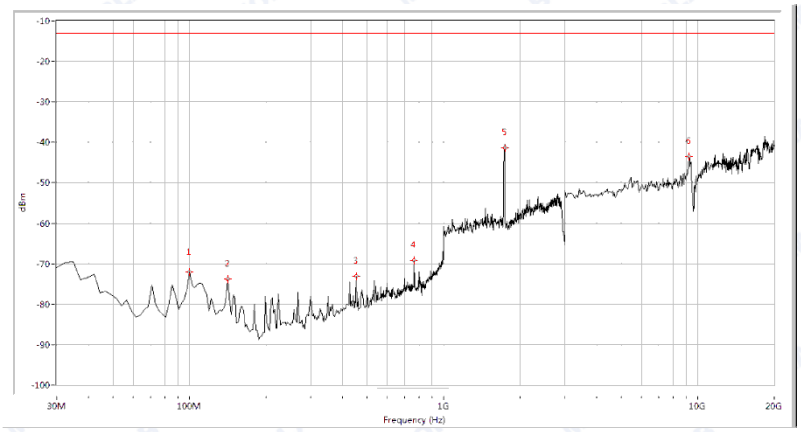


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-66.30	-13.0	53.3	Vertical	PASS
100.150	-71.81	-13.0	58.8	Vertical	PASS
199.327	-76.70	-13.0	63.7	Vertical	PASS
479.925	-72.25	-13.0	59.3	Vertical	PASS
1728.180	-31.91	-13.0	18.9	Vertical	N.A
17159.601	-39.56	-13.0	26.6	Vertical	PASS

LTE Band 4 15MHz BW, Mid Channel, QPSK

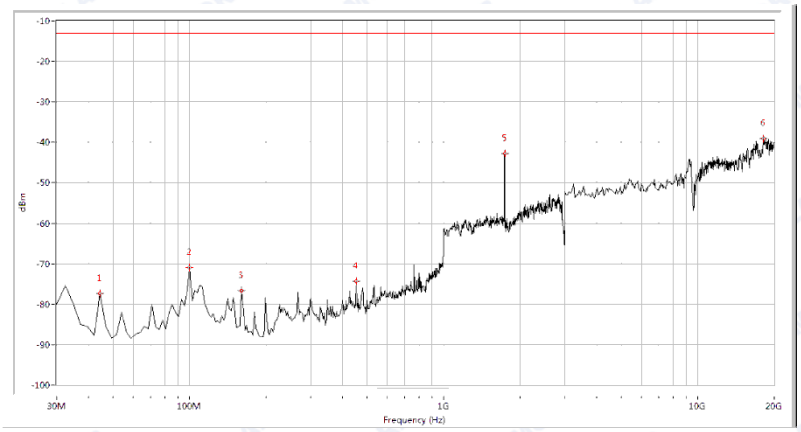


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-74.42	-13.0	61.4	Horizontal	PASS
100.150	-71.90	-13.0	58.9	Horizontal	PASS
300.923	-76.38	-13.0	63.4	Horizontal	PASS
765.362	-71.41	-13.0	58.4	Horizontal	PASS
1738.155	-41.16	-13.0	28.2	Horizontal	N.A
17201.995	-39.28	-13.0	26.3	Horizontal	PASS

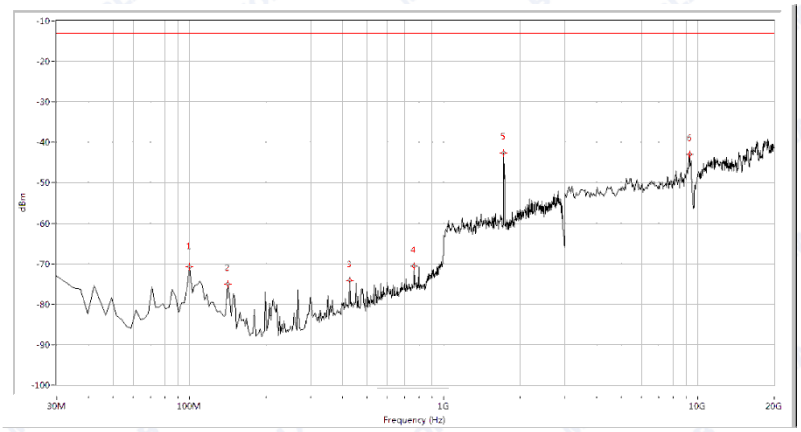


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-72.04	-13.0	59.0	Vertical	PASS
141.272	-73.75	-13.0	60.7	Vertical	PASS
453.317	-73.00	-13.0	60.0	Vertical	PASS
765.362	-69.21	-13.0	56.2	Vertical	PASS
1738.155	-41.35	-13.0	28.3	Vertical	N.A
9231.920	-43.55	-13.0	30.5	Vertical	PASS

LTE Band 4 15MHz BW, Mid Channel, 16QAM

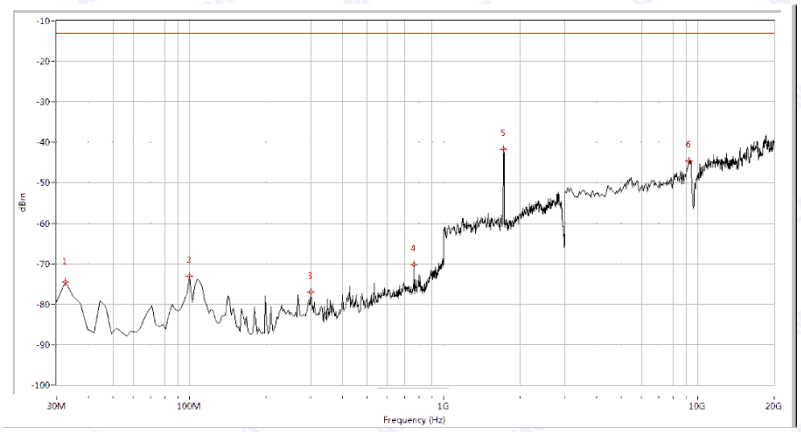


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
44.514	-77.38	-13.0	64.4	Horizontal	PASS
100.150	-70.87	-13.0	57.9	Horizontal	PASS
160.623	-76.67	-13.0	63.7	Horizontal	PASS
453.317	-74.36	-13.0	61.4	Horizontal	PASS
1738.155	-42.70	-13.0	29.7	Horizontal	N.A
18177.057	-39.08	-13.0	26.1	Horizontal	PASS

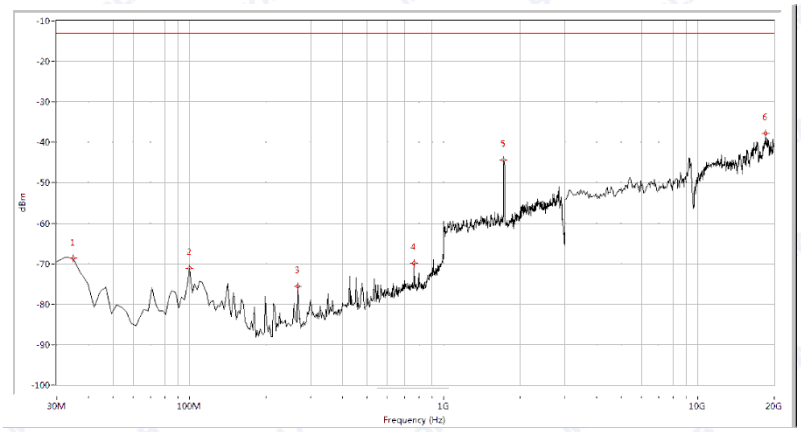


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-70.79	-13.0	57.8	Vertical	PASS
141.272	-75.02	-13.0	62.0	Vertical	PASS
426.708	-74.15	-13.0	61.2	Vertical	PASS
765.362	-70.66	-13.0	57.7	Vertical	PASS
1723.192	-42.68	-13.0	29.7	Vertical	N.A
9274.314	-42.92	-13.0	29.9	Vertical	PASS

LTE Band 4 20MHz BW, Mid Channel, QPSK

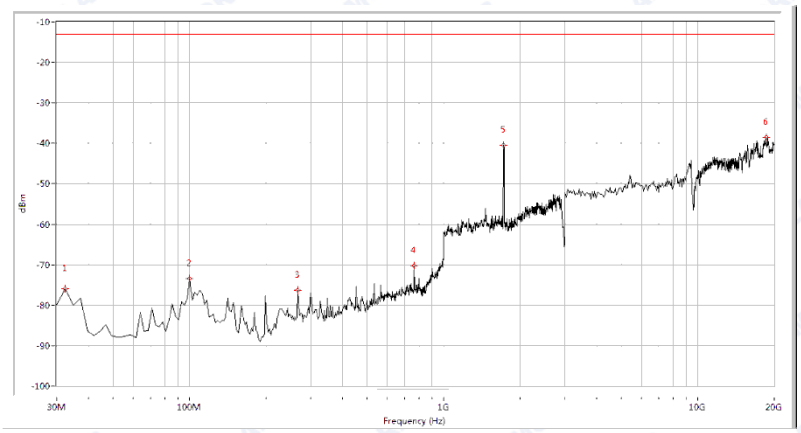


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-74.48	-13.0	61.5	Horizontal	PASS
100.150	-73.12	-13.0	60.1	Horizontal	PASS
300.923	-76.95	-13.0	63.9	Horizontal	PASS
765.362	-70.20	-13.0	57.2	Horizontal	PASS
1723.192	-41.69	-13.0	28.7	Horizontal	N.A
9231.920	-44.53	-13.0	31.5	Horizontal	PASS

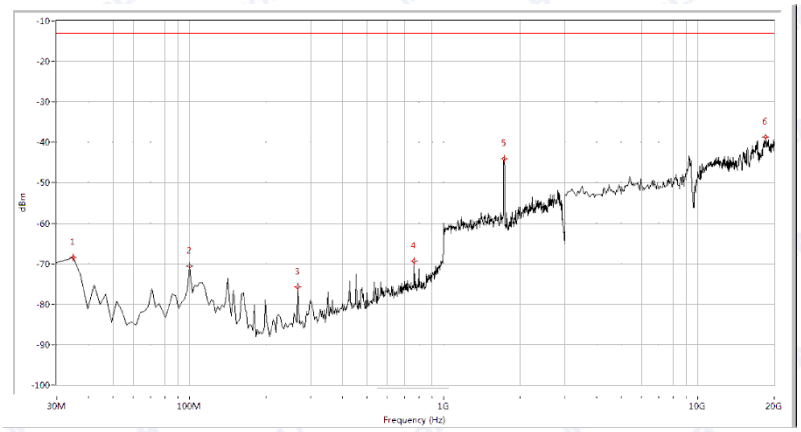


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.59	-13.0	55.6	Vertical	PASS
100.150	-71.18	-13.0	58.2	Vertical	PASS
267.057	-75.58	-13.0	62.6	Vertical	PASS
765.362	-69.92	-13.0	56.9	Vertical	PASS
1723.192	-44.35	-13.0	31.3	Vertical	N.A
18516.209	-37.87	-13.0	24.9	Vertical	PASS

LTE Band 4 20MHz BW, Mid Channel, 16QAM

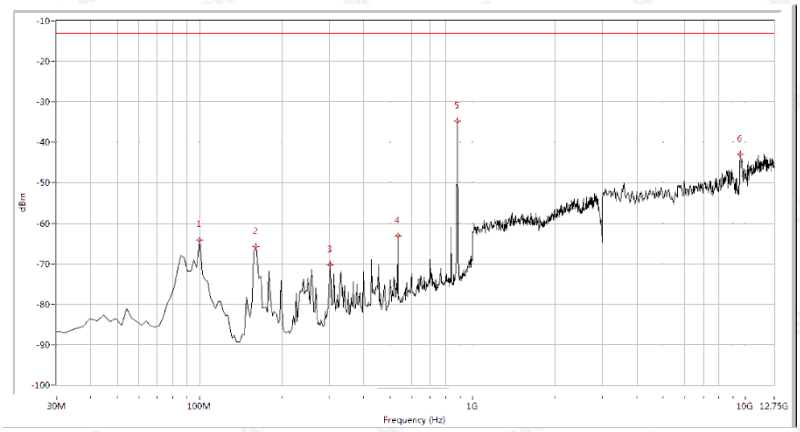


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-75.89	-13.0	62.9	Horizontal	PASS
100.150	-73.47	-13.0	60.5	Horizontal	PASS
267.057	-76.27	-13.0	63.3	Horizontal	PASS
765.362	-70.17	-13.0	57.2	Horizontal	PASS
1723.192	-40.54	-13.0	27.5	Horizontal	N.A
18558.603	-38.52	-13.0	25.5	Horizontal	PASS

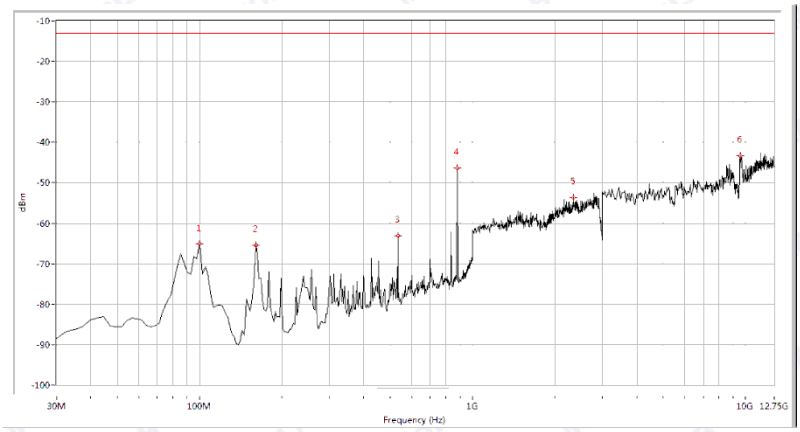


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.52	-13.0	55.5	Vertical	PASS
100.150	-70.68	-13.0	57.7	Vertical	PASS
267.057	-75.83	-13.0	62.8	Vertical	PASS
765.362	-69.41	-13.0	56.4	Vertical	PASS
1728.180	-43.96	-13.0	31.0	Vertical	N.A
18431.421	-38.74	-13.0	25.7	Vertical	PASS

LTE Band 5 1.4MHz BW, Mid Channel, QPSK

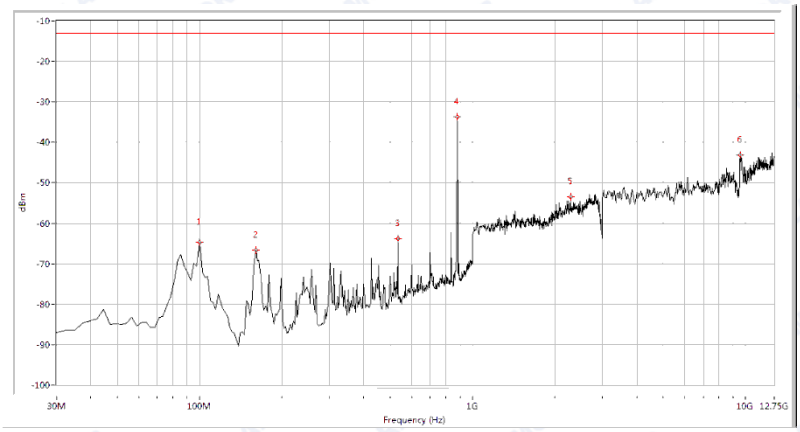


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.17	-13.0	51.2	Horizontal	PASS
160.623	-65.86	-13.0	52.9	Horizontal	PASS
300.923	-70.16	-13.0	57.2	Horizontal	PASS
533.142	-63.13	-13.0	50.1	Horizontal	PASS
879.052	-34.75	-13.0	21.8	Horizontal	N.A
9564.838	-42.89	-13.0	29.9	Horizontal	PASS

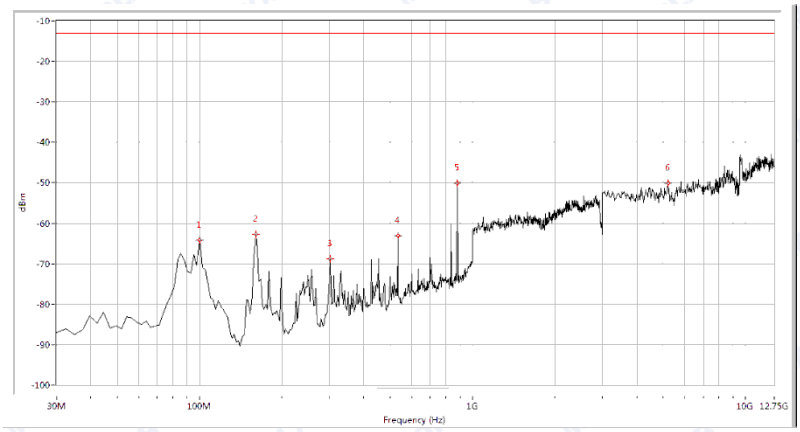


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.08	-13.0	52.1	Vertical	PASS
160.623	-65.45	-13.0	52.5	Vertical	PASS
533.142	-63.16	-13.0	50.2	Vertical	PASS
879.052	-46.39	-13.0	33.4	Vertical	N.A
2346.633	-53.69	-13.0	40.7	Vertical	PASS
9564.838	-43.41	-13.0	30.4	Vertical	PASS

LTE Band 5 1.4MHz BW, Mid Channel, 16QAM

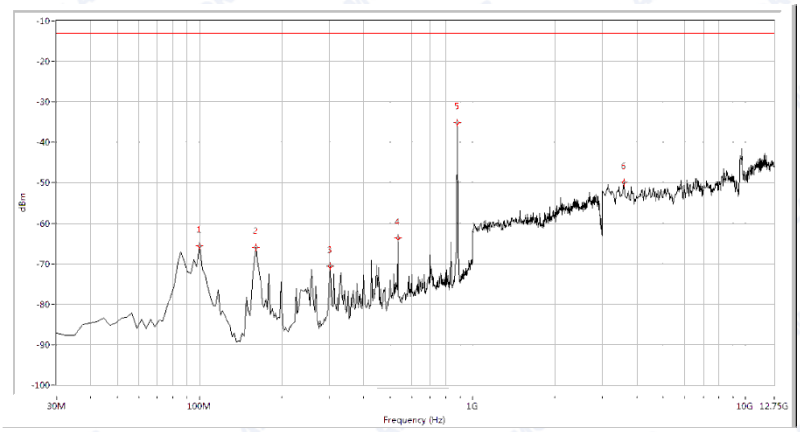


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.73	-13.0	51.7	Horizontal	PASS
160.623	-66.62	-13.0	53.6	Horizontal	PASS
533.142	-63.75	-13.0	50.8	Horizontal	PASS
881.471	-33.67	-13.0	20.7	Horizontal	N.A
2291.771	-53.49	-13.0	40.5	Horizontal	PASS
9564.838	-43.22	-13.0	30.2	Horizontal	PASS

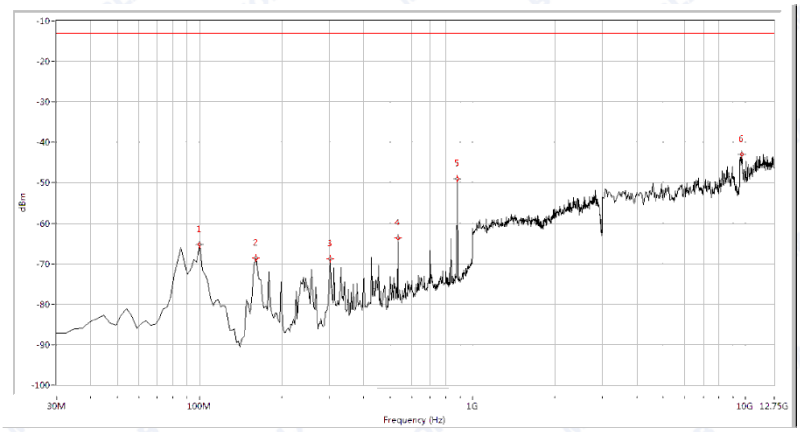


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.09	-13.0	51.1	Vertical	PASS
160.623	-62.83	-13.0	49.8	Vertical	PASS
300.923	-68.83	-13.0	55.8	Vertical	PASS
533.142	-63.19	-13.0	50.2	Vertical	PASS
879.052	-50.10	-13.0	37.1	Vertical	N.A
5212.594	-50.10	-13.0	37.1	Vertical	PASS

LTE Band 5 3MHz BW, Mid Channel, QPSK

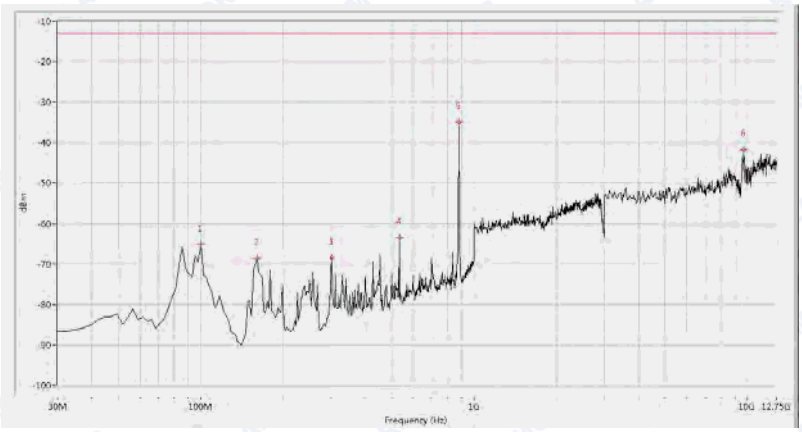


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.63	-13.0	52.6	Horizontal	PASS
160.623	-65.94	-13.0	52.9	Horizontal	PASS
300.923	-70.63	-13.0	57.6	Horizontal	PASS
533.142	-63.70	-13.0	50.7	Horizontal	PASS
881.471	-35.13	-13.0	22.1	Horizontal	N.A
3583.541	-49.84	-13.0	36.8	Horizontal	PASS

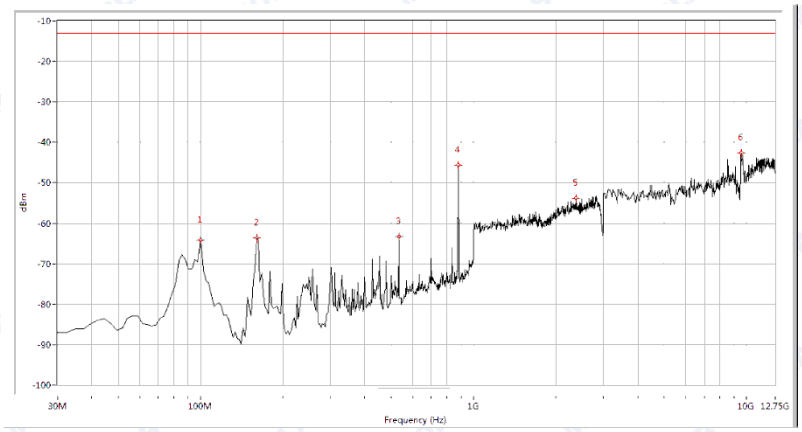


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.23	-13.0	52.2	Vertical	PASS
160.623	-68.61	-13.0	55.6	Vertical	PASS
300.923	-68.79	-13.0	55.8	Vertical	PASS
533.142	-63.63	-13.0	50.6	Vertical	PASS
879.052	-49.00	-13.0	36.0	Vertical	N.A
9710.723	-42.93	-13.0	29.9	Vertical	PASS

LTE Band 5 3MHz BW, Mid Channel, 16QAM

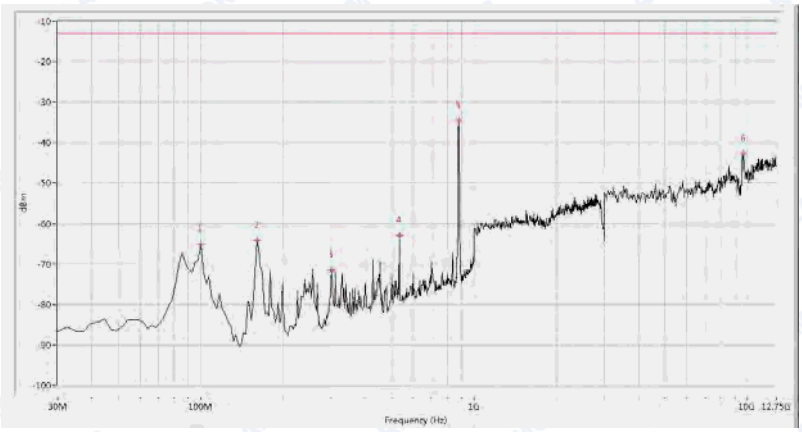


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.11	-13.0	52.1	Horizontal	PASS
160.623	-68.68	-13.0	55.7	Horizontal	PASS
300.923	-68.47	-13.0	55.5	Horizontal	PASS
533.142	-63.46	-13.0	50.5	Horizontal	PASS
881.471	-34.87	-13.0	21.9	Horizontal	N.A
9710.723	-41.72	-13.0	28.7	Horizontal	PASS

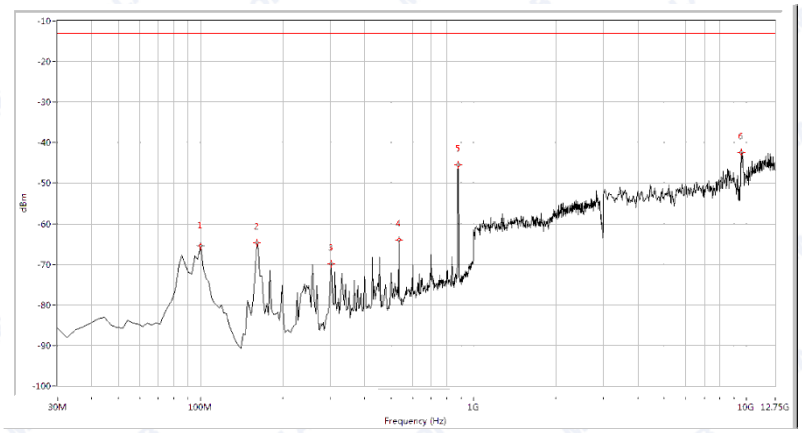


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.15	-13.0	51.2	Vertical	PASS
160.623	-63.56	-13.0	50.6	Vertical	PASS
533.142	-63.26	-13.0	50.3	Vertical	PASS
881.471	-45.65	-13.0	32.6	Vertical	N.A
2381.546	-53.91	-13.0	40.9	Vertical	PASS
9564.838	-42.60	-13.0	29.6	Vertical	PASS

LTE Band 5 5MHz BW, Mid Channel, QPSK

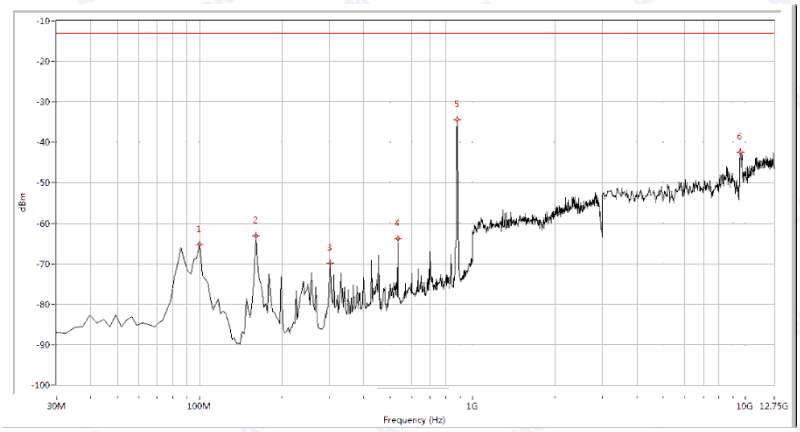


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.13	-13.0	52.1	Horizontal	PASS
160.623	-64.22	-13.0	51.2	Horizontal	PASS
300.923	-71.47	-13.0	58.5	Horizontal	PASS
533.142	-62.91	-13.0	49.9	Horizontal	PASS
881.471	-34.52	-13.0	21.5	Horizontal	N.A
9710.723	-42.71	-13.0	29.7	Horizontal	PASS

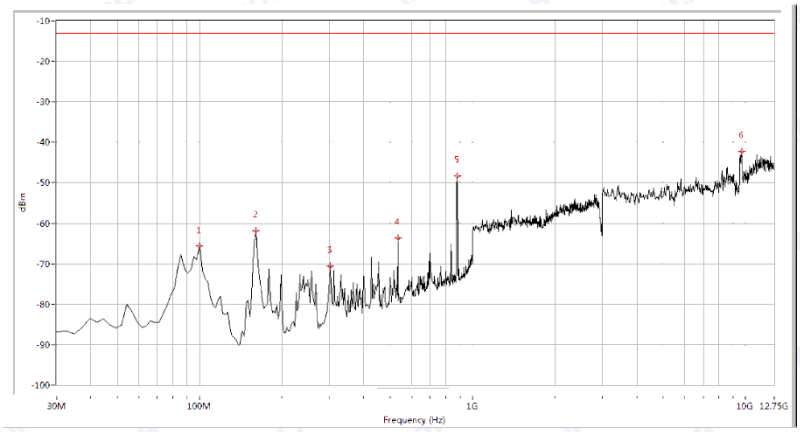


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.50	-13.0	52.5	Vertical	PASS
160.623	-64.71	-13.0	51.7	Vertical	PASS
300.923	-69.81	-13.0	56.8	Vertical	PASS
533.142	-64.06	-13.0	51.1	Vertical	PASS
879.052	-45.45	-13.0	32.4	Vertical	N.A
9589.152	-42.51	-13.0	29.5	Vertical	PASS

LTE Band 5 5MHz BW, Mid Channel, 16QAM

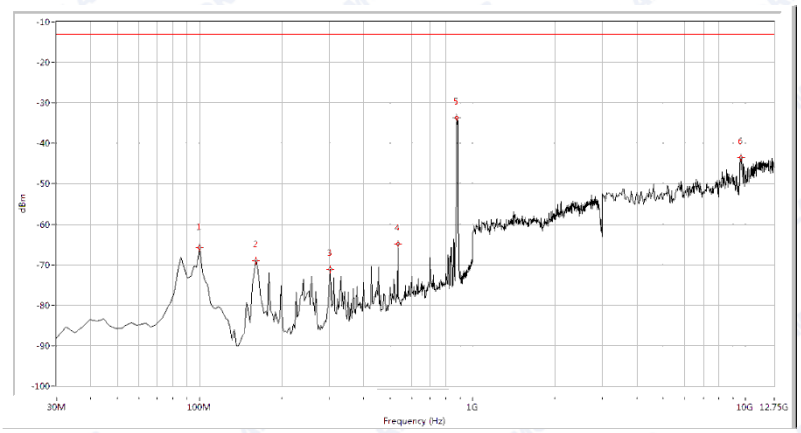


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.30	-13.0	52.3	Horizontal	PASS
160.623	-63.13	-13.0	50.1	Horizontal	PASS
300.923	-69.82	-13.0	56.8	Horizontal	PASS
533.142	-63.74	-13.0	50.7	Horizontal	PASS
879.052	-34.50	-13.0	21.5	Horizontal	N.A
9564.838	-42.50	-13.0	29.5	Horizontal	PASS

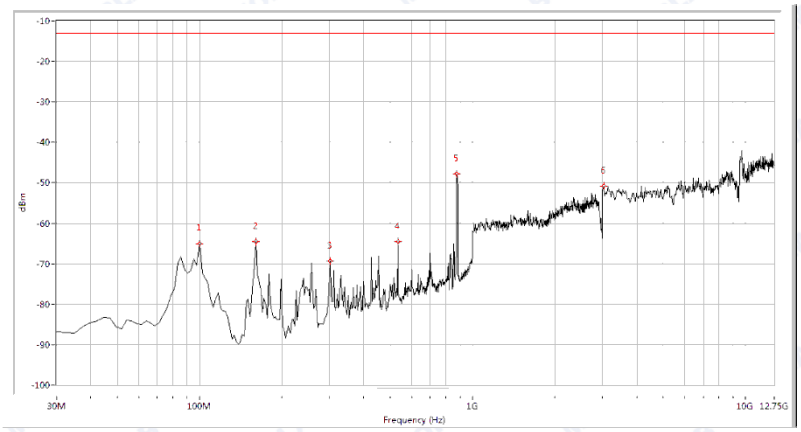


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.59	-13.0	52.6	Vertical	PASS
160.623	-61.80	-13.0	48.8	Vertical	PASS
300.923	-70.62	-13.0	57.6	Vertical	PASS
533.142	-63.61	-13.0	50.6	Vertical	PASS
879.052	-48.26	-13.0	35.3	Vertical	N.A
9686.409	-42.19	-13.0	29.2	Vertical	PASS

LTE Band 5 10MHz BW, Mid Channel, QPSK

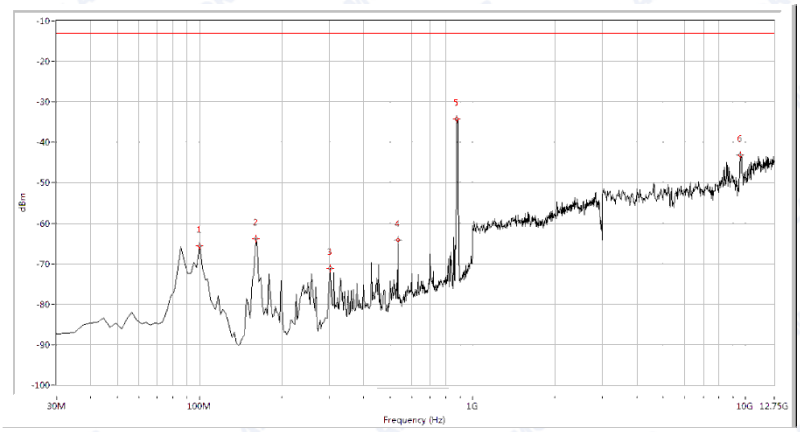


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.70	-13.0	52.7	Horizontal	PASS
160.623	-68.91	-13.0	55.9	Horizontal	PASS
300.923	-71.10	-13.0	58.1	Horizontal	PASS
533.142	-64.87	-13.0	51.9	Horizontal	PASS
876.633	-33.77	-13.0	20.8	Horizontal	N.A
9662.095	-43.51	-13.0	30.5	Horizontal	PASS

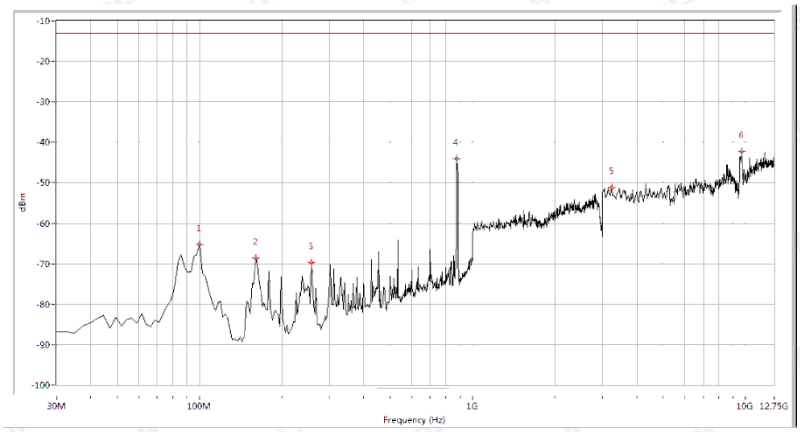


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.09	-13.0	52.1	Vertical	PASS
160.623	-64.59	-13.0	51.6	Vertical	PASS
300.923	-69.30	-13.0	56.3	Vertical	PASS
533.142	-64.47	-13.0	51.5	Vertical	PASS
876.633	-47.70	-13.0	34.7	Vertical	N.A
3024.314	-50.82	-13.0	37.8	Vertical	PASS

LTE Band 5 10MHz BW, Mid Channel, 16QAM

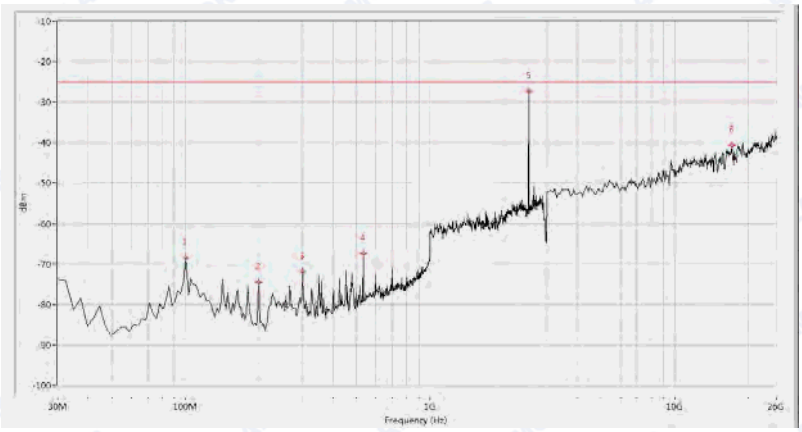


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.58	-13.0	52.6	Horizontal	PASS
160.623	-63.78	-13.0	50.8	Horizontal	PASS
300.923	-71.11	-13.0	58.1	Horizontal	PASS
533.142	-64.09	-13.0	51.1	Horizontal	PASS
876.633	-34.32	-13.0	21.3	Horizontal	N.A
9564.838	-43.13	-13.0	30.1	Horizontal	PASS

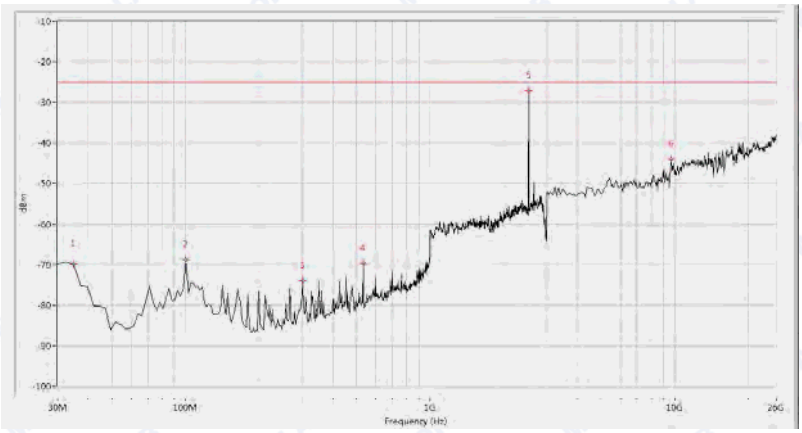


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.16	-13.0	52.2	Vertical	PASS
160.623	-68.60	-13.0	55.6	Vertical	PASS
257.382	-69.70	-13.0	56.7	Vertical	PASS
876.633	-44.11	-13.0	31.1	Vertical	N.A
3243.142	-51.09	-13.0	38.1	Vertical	PASS
9686.409	-42.32	-13.0	29.3	Vertical	PASS

LTE Band 7 5MHz BW, Mid Channel, QPSK

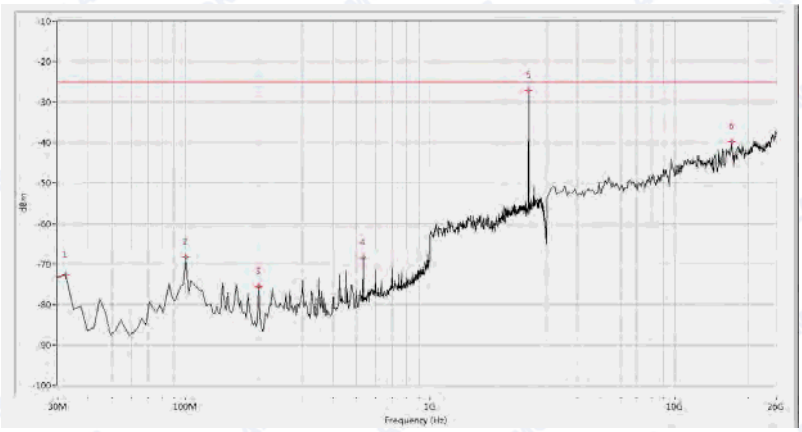


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-68.52	-25.0	43.5	Horizontal	PASS
199.327	-74.59	-25.0	49.6	Horizontal	PASS
300.923	-71.88	-25.0	46.9	Horizontal	PASS
533.142	-67.46	-25.0	42.5	Horizontal	PASS
2531.172	-27.23	-25.0	2.2	Horizontal	N.A
17109.726	-40.62	-25.0	15.6	Horizontal	PASS

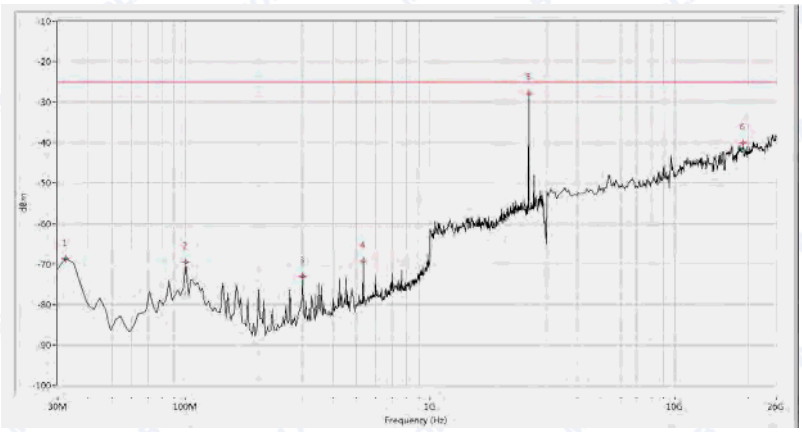


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-69.95	-25.0	45.0	Vertical	PASS
100.150	-68.90	-25.0	43.9	Vertical	PASS
300.923	-73.90	-25.0	48.9	Vertical	PASS
533.142	-69.65	-25.0	44.7	Vertical	PASS
2531.172	-27.12	-25.0	2.1	Vertical	N.A
9710.723	-44.03	-25.0	19.0	Vertical	PASS

LTE Band 7 5MHz BW, Mid Channel, 16QAM

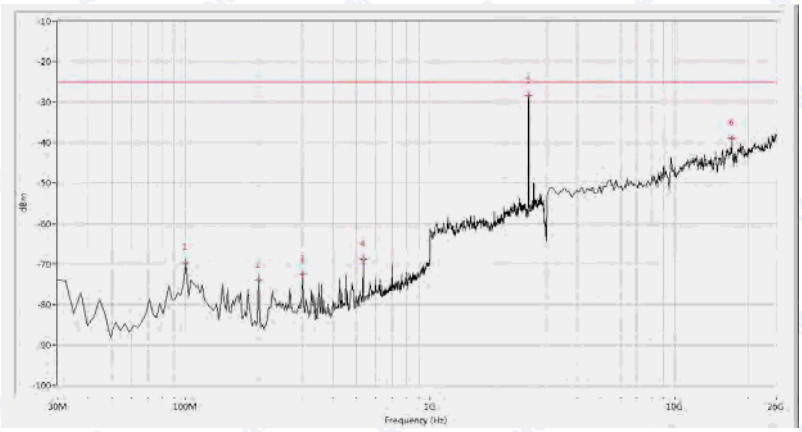


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-72.67	-25.0	47.7	Horizontal	PASS
100.150	-68.26	-25.0	43.3	Horizontal	PASS
199.327	-75.56	-25.0	50.6	Horizontal	PASS
533.142	-68.52	-25.0	43.5	Horizontal	PASS
2531.172	-27.04	-25.0	2.0	Horizontal	N.A
17167.082	-39.74	-25.0	14.7	Horizontal	PASS

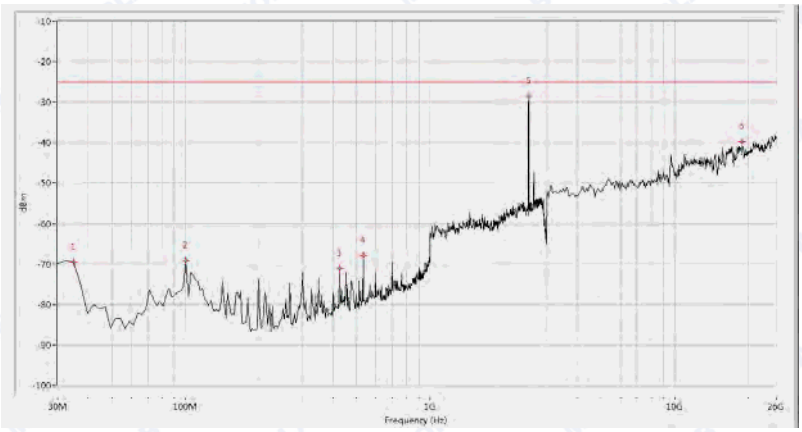


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-68.63	-25.0	43.6	Vertical	PASS
100.150	-69.44	-25.0	44.4	Vertical	PASS
300.923	-73.04	-25.0	48.0	Vertical	PASS
533.142	-69.26	-25.0	44.3	Vertical	PASS
2531.172	-27.80	-25.0	2.8	Vertical	N.A
19059.850	-40.15	-25.0	15.2	Vertical	PASS

LTE Band 7 10MHz BW, Mid Channel, QPSK

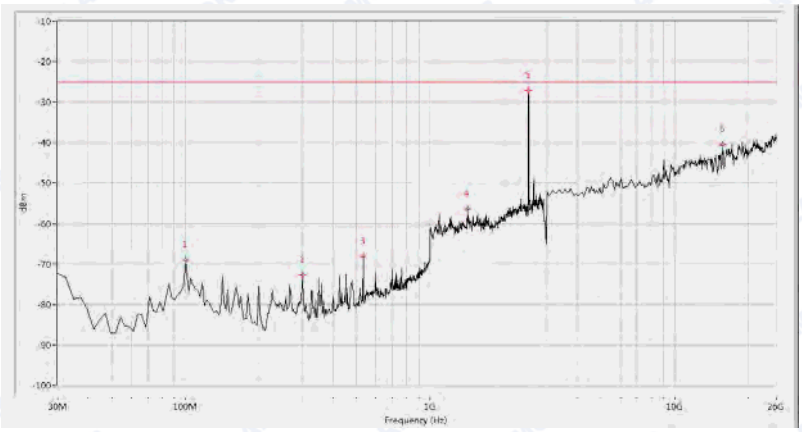


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.79	-25.0	44.8	Horizontal	PASS
199.327	-73.96	-25.0	49.0	Horizontal	PASS
300.923	-72.51	-25.0	47.5	Horizontal	PASS
533.142	-68.73	-25.0	43.7	Horizontal	PASS
2531.172	-28.37	-25.0	3.4	Horizontal	N.A
17167.082	-38.79	-25.0	13.8	Horizontal	PASS

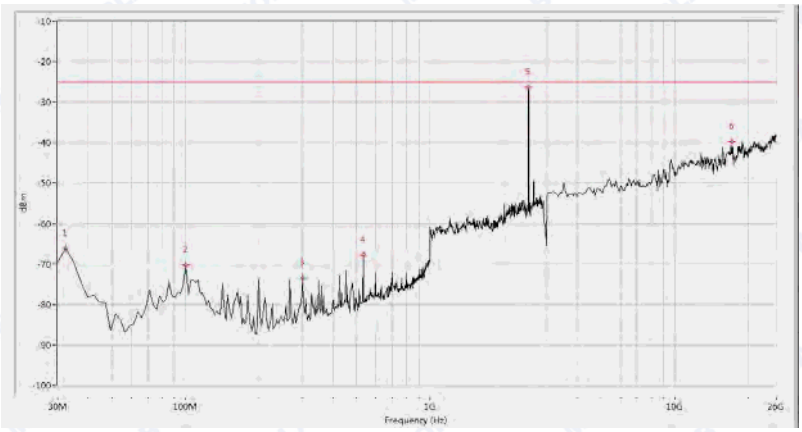


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-69.49	-25.0	44.5	Vertical	PASS
100.150	-69.21	-25.0	44.2	Vertical	PASS
426.708	-71.11	-25.0	46.1	Vertical	PASS
533.142	-67.93	-25.0	42.9	Vertical	PASS
2536.160	-28.60	-25.0	3.6	Vertical	N.A
18830.424	-39.67	-25.0	14.7	Vertical	PASS

LTE Band 7 10MHz BW, Mid Channel, 16QAM

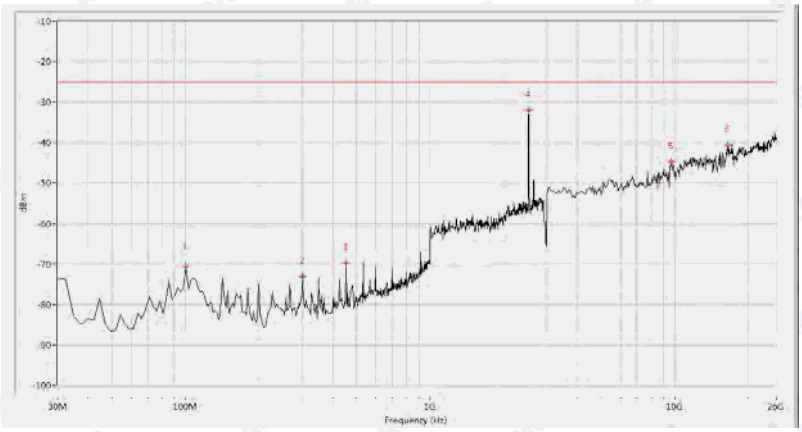


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.07	-25.0	44.1	Horizontal	PASS
300.923	-72.72	-25.0	47.7	Horizontal	PASS
533.142	-68.13	-25.0	43.1	Horizontal	PASS
1423.940	-56.43	-25.0	31.4	Horizontal	PASS
2526.185	-27.16	-25.0	2.2	Horizontal	PASS
15733.167	-40.49	-25.0	15.5	Horizontal	PASS

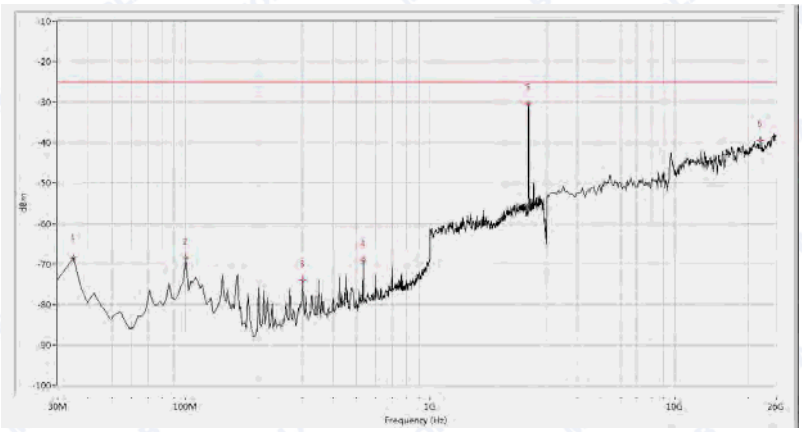


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
32.419	-66.21	-25.0	41.2	Vertical	PASS
100.150	-70.27	-25.0	45.3	Vertical	PASS
300.923	-73.37	-25.0	48.4	Vertical	PASS
533.142	-67.66	-25.0	42.7	Vertical	PASS
2526.185	-26.33	-25.0	1.3	Vertical	N.A
17167.082	-39.80	-25.0	14.8	Vertical	PASS

LTE Band 7 15MHz BW, Mid Channel, QPSK

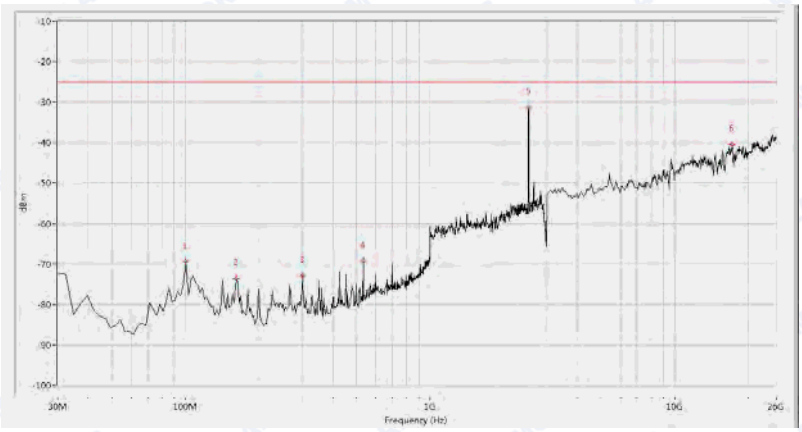


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-70.52	-25.0	45.5	Horizontal	PASS
300.923	-73.11	-25.0	48.1	Horizontal	PASS
453.317	-69.79	-25.0	44.8	Horizontal	PASS
2536.160	-31.95	-25.0	7.0	Horizontal	N.A
9710.723	-44.67	-25.0	19.7	Horizontal	PASS
16478.803	-40.57	-25.0	15.6	Horizontal	PASS

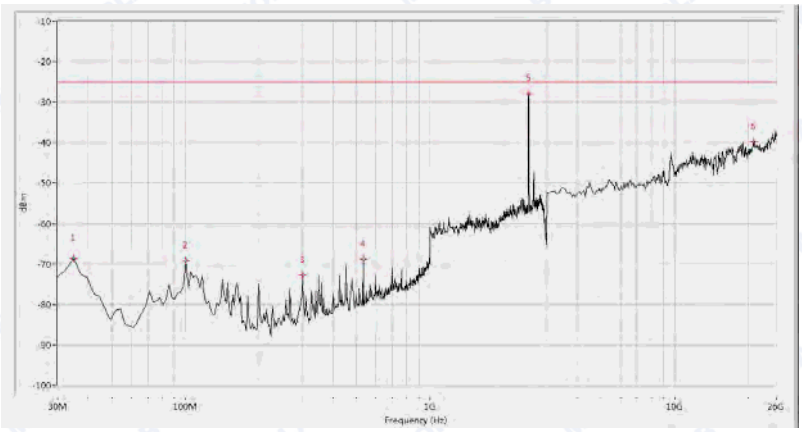


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.45	-25.0	43.4	Vertical	PASS
100.150	-68.54	-25.0	43.5	Vertical	PASS
300.923	-73.98	-25.0	49.0	Vertical	PASS
533.142	-68.95	-25.0	43.9	Vertical	PASS
2526.185	-30.32	-25.0	5.3	Vertical	N.A
22386.534	-39.37	-25.0	14.4	Vertical	PASS

LTE Band 7 15MHz BW, Mid Channel, 16QAM

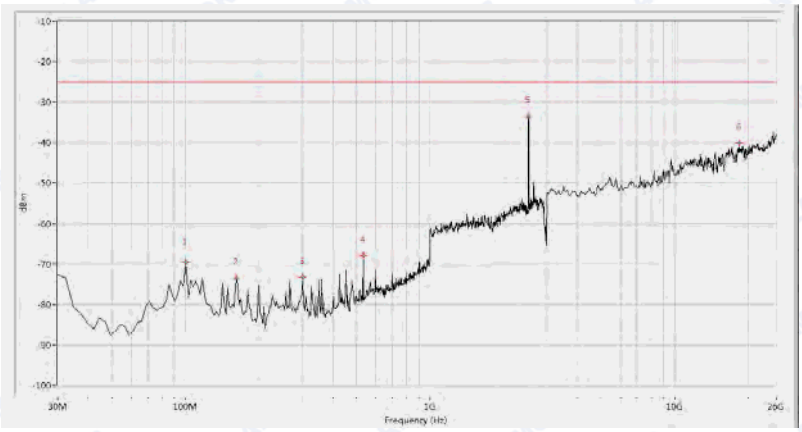


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.43	-25.0	44.4	Horizontal	PASS
160.623	-73.71	-25.0	48.7	Horizontal	PASS
300.923	-72.88	-25.0	47.9	Horizontal	PASS
533.142	-69.34	-25.0	44.3	Horizontal	PASS
2531.172	-31.44	-25.0	6.4	Horizontal	N.A
17109.726	-40.40	-25.0	15.4	Horizontal	PASS

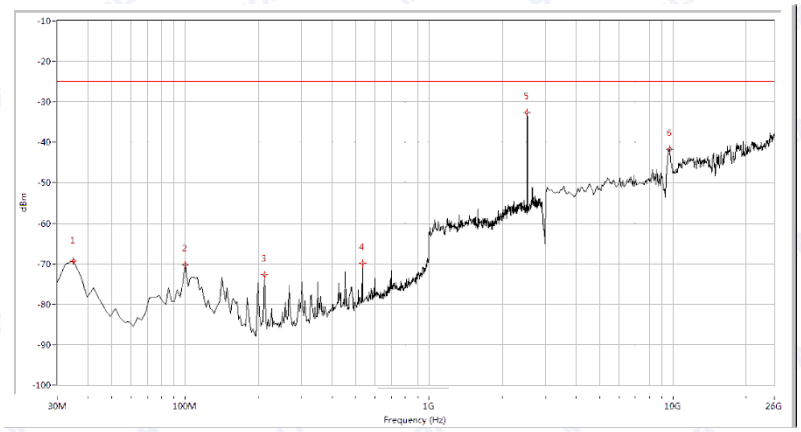


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-68.59	-25.0	43.6	Vertical	PASS
100.150	-69.18	-25.0	44.2	Vertical	PASS
300.923	-72.66	-25.0	47.7	Vertical	PASS
533.142	-68.79	-25.0	43.8	Vertical	PASS
2531.172	-27.91	-25.0	2.9	Vertical	N.A
21067.332	-39.74	-25.0	14.7	Vertical	PASS

LTE Band 7 20MHz BW, Mid Channel, QPSK

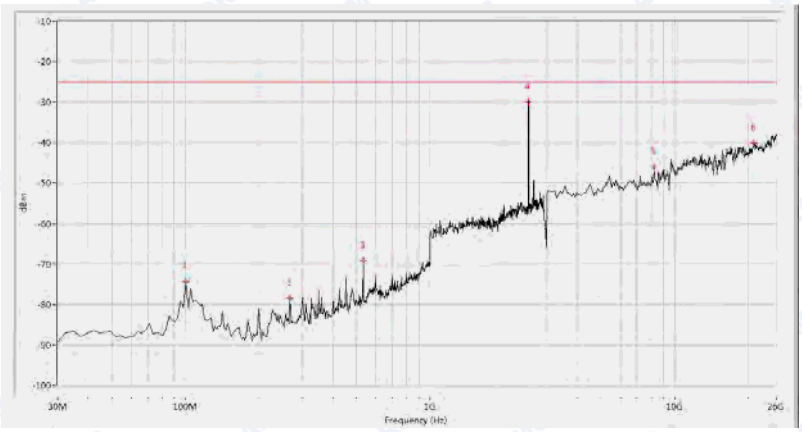


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-69.60	-25.0	44.6	Horizontal	PASS
160.623	-73.49	-25.0	48.5	Horizontal	PASS
300.923	-73.32	-25.0	48.3	Horizontal	PASS
533.142	-67.83	-25.0	42.8	Horizontal	PASS
2526.185	-33.58	-25.0	8.6	Horizontal	N.A
18371.571	-40.18	-25.0	15.2	Horizontal	PASS

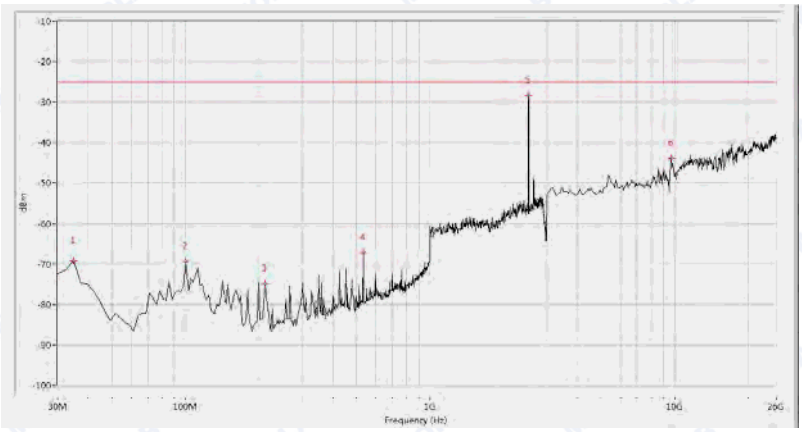


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-69.37	-25.0	44.4	Vertical	PASS
100.150	-70.31	-25.0	45.3	Vertical	PASS
211.421	-72.65	-25.0	47.6	Vertical	PASS
533.142	-69.81	-25.0	44.8	Vertical	PASS
2526.185	-32.71	-25.0	7.7	Vertical	N.A
9710.723	-41.74	-25.0	16.7	Vertical	PASS

LTE Band 7 20MHz BW, Mid Channel, 16QAM

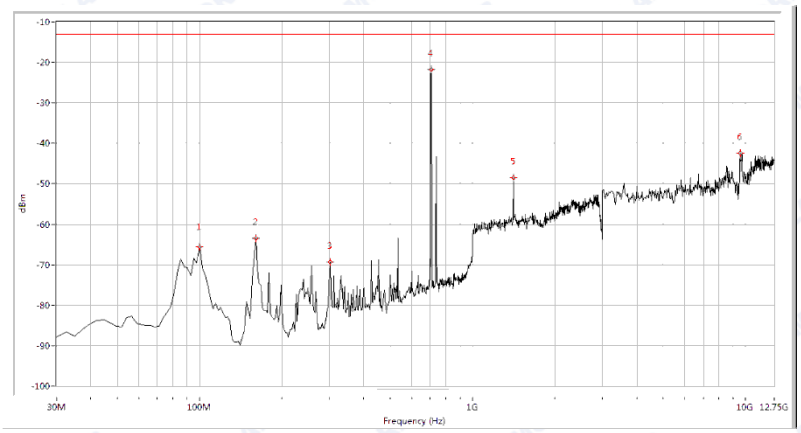


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-74.39	-25.0	49.4	Horizontal	PASS
267.057	-78.35	-25.0	53.4	Horizontal	PASS
533.142	-69.25	-25.0	44.2	Horizontal	PASS
2526.185	-29.87	-25.0	4.9	Horizontal	N.A
8219.451	-45.92	-25.0	20.9	Horizontal	PASS
21067.332	-40.16	-25.0	15.2	Horizontal	PASS

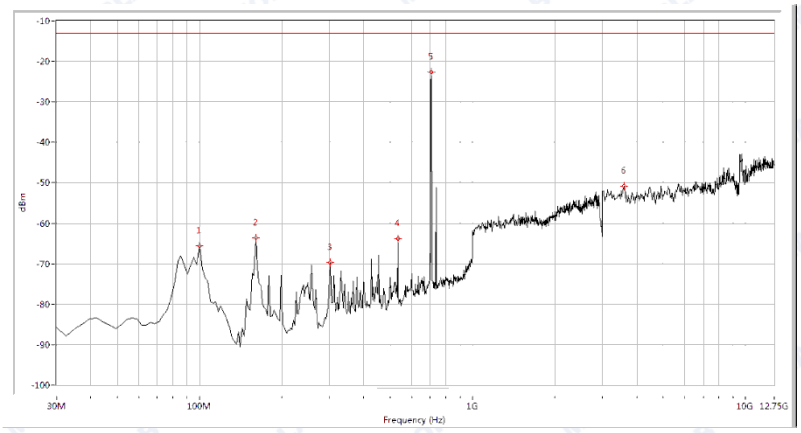


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
34.838	-69.20	-25.0	44.2	Vertical	PASS
100.150	-69.26	-25.0	44.3	Vertical	PASS
211.421	-74.91	-25.0	49.9	Vertical	PASS
533.142	-67.17	-25.0	42.2	Vertical	PASS
2526.185	-28.43	-25.0	3.4	Vertical	N.A
9710.723	-43.89	-25.0	18.9	Vertical	PASS

LTE Band 12 1.4MHz BW, Mid Channel, QPSK

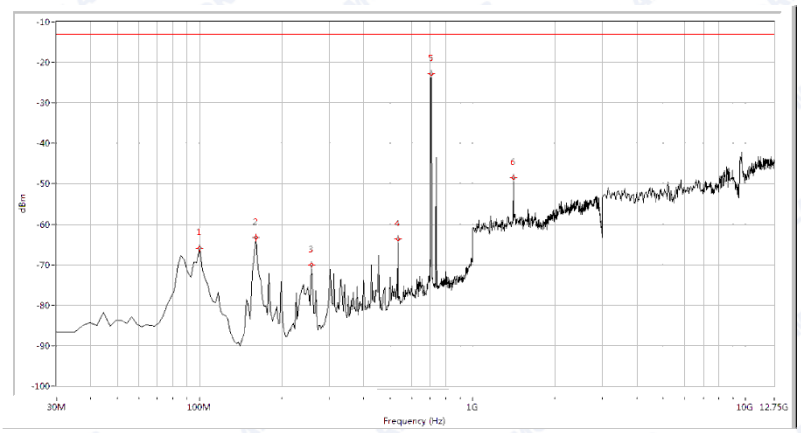


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.63	-13.0	52.6	Horizontal	PASS
160.623	-63.38	-13.0	50.4	Horizontal	PASS
300.923	-69.31	-13.0	56.3	Horizontal	PASS
707.307	-21.80	-13.0	8.8	Horizontal	N.A
1413.965	-48.43	-13.0	35.4	Horizontal	PASS
9564.838	-42.46	-13.0	29.5	Horizontal	PASS

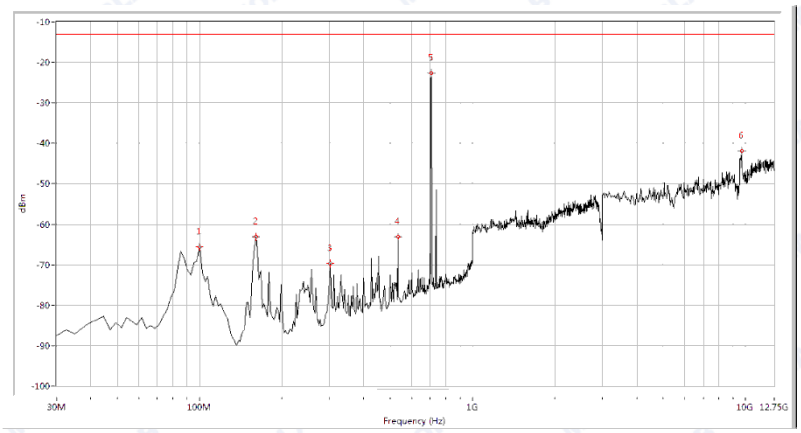


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.53	-13.0	52.5	Vertical	PASS
160.623	-63.63	-13.0	50.6	Vertical	PASS
300.923	-69.78	-13.0	56.8	Vertical	PASS
533.142	-63.86	-13.0	50.9	Vertical	PASS
707.307	-22.71	-13.0	9.7	Vertical	N.A
3583.541	-50.84	-13.0	37.8	Vertical	PASS

LTE Band 12 1.4MHz BW, Mid Channel, 16QAM

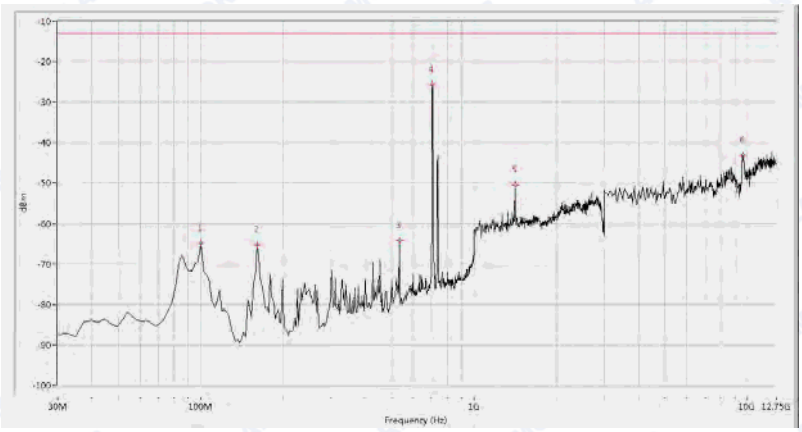


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.99	-13.0	53.0	Horizontal	PASS
160.623	-63.24	-13.0	50.2	Horizontal	PASS
257.382	-70.04	-13.0	57.0	Horizontal	PASS
533.142	-63.60	-13.0	50.6	Horizontal	PASS
707.307	-22.79	-13.0	9.8	Horizontal	N.A
1413.965	-48.52	-13.0	35.5	Horizontal	PASS

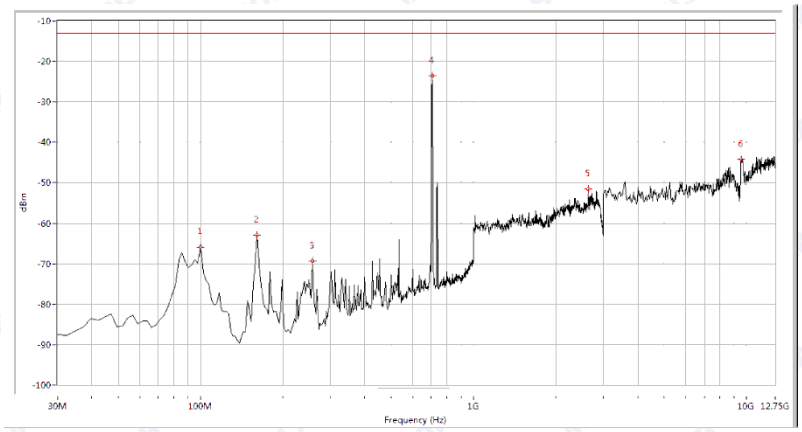


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.69	-13.0	52.7	Vertical	PASS
160.623	-63.09	-13.0	50.1	Vertical	PASS
300.923	-69.71	-13.0	56.7	Vertical	PASS
533.142	-63.14	-13.0	50.1	Vertical	PASS
707.307	-22.70	-13.0	9.7	Vertical	N.A
9686.409	-41.89	-13.0	28.9	Vertical	PASS

LTE Band 12 3MHz BW, Mid Channel, QPSK

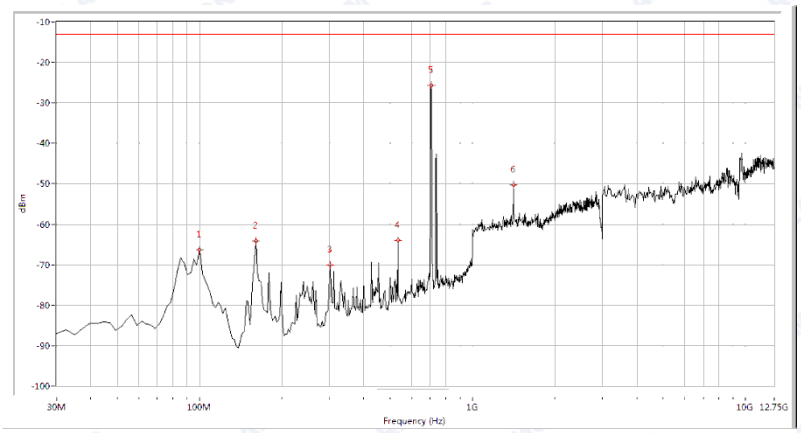


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.98	-13.0	52.0	Horizontal	PASS
160.623	-65.18	-13.0	52.2	Horizontal	PASS
533.142	-64.13	-13.0	51.1	Horizontal	PASS
704.888	-25.66	-13.0	12.7	Horizontal	N.A
1413.965	-50.39	-13.0	37.4	Horizontal	PASS
9613.466	-43.17	-13.0	30.2	Horizontal	PASS

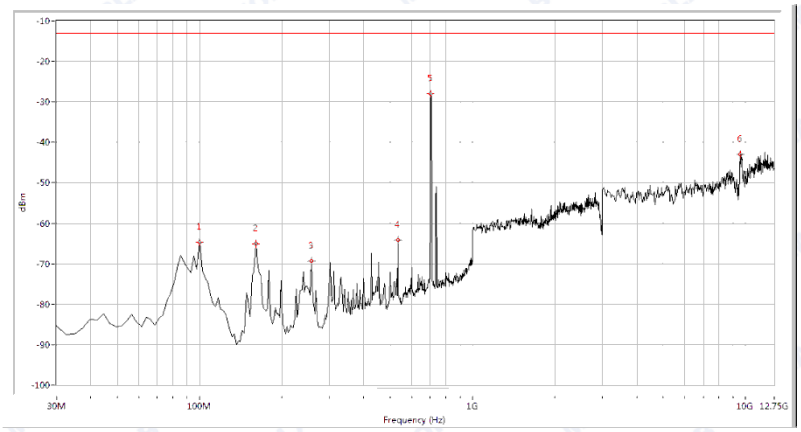


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-66.02	-13.0	53.0	Vertical	PASS
160.623	-62.97	-13.0	50.0	Vertical	PASS
257.382	-69.37	-13.0	56.4	Vertical	PASS
707.307	-23.62	-13.0	10.6	Vertical	N.A
2640.898	-51.45	-13.0	38.4	Vertical	PASS
9564.838	-44.29	-13.0	31.3	Vertical	PASS

LTE Band 12 3MHz BW, Mid Channel, 16QAM

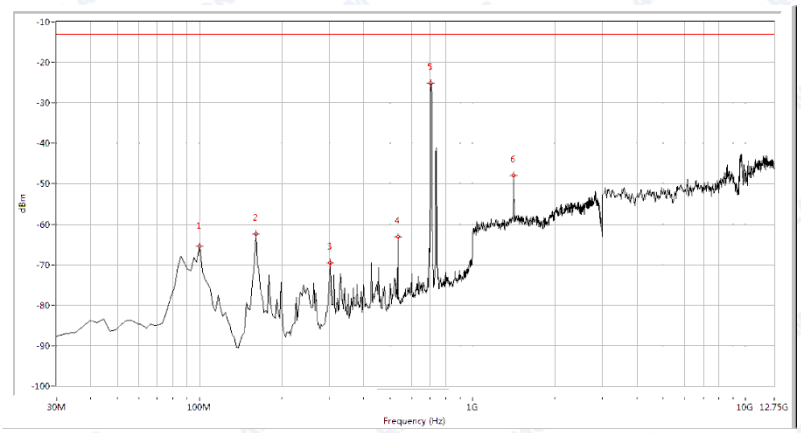


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-66.33	-13.0	53.3	Horizontal	PASS
160.623	-64.20	-13.0	51.2	Horizontal	PASS
300.923	-69.98	-13.0	57.0	Horizontal	PASS
533.142	-63.93	-13.0	50.9	Horizontal	PASS
707.307	-25.66	-13.0	12.7	Horizontal	N.A
1413.965	-50.33	-13.0	37.3	Horizontal	PASS

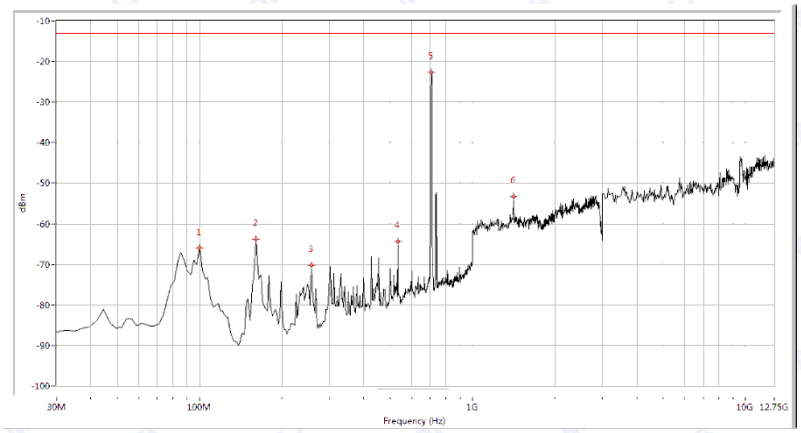


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.79	-13.0	51.8	Vertical	PASS
160.623	-65.04	-13.0	52.0	Vertical	PASS
257.382	-69.28	-13.0	56.3	Vertical	PASS
533.142	-64.23	-13.0	51.2	Vertical	PASS
704.888	-28.08	-13.0	15.1	Vertical	N.A
9564.838	-42.98	-13.0	30.0	Vertical	PASS

LTE Band 12 5MHz BW, Mid Channel, QPSK

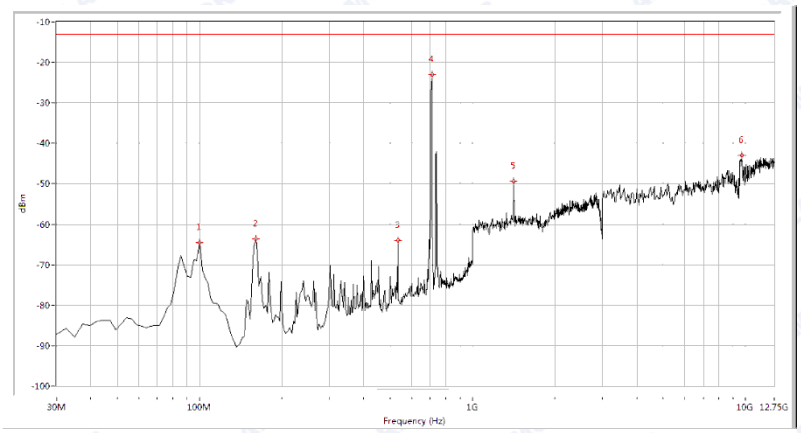


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.39	-13.0	52.4	Horizontal	PASS
160.623	-62.42	-13.0	49.4	Horizontal	PASS
300.923	-69.45	-13.0	56.5	Horizontal	PASS
533.142	-63.13	-13.0	50.1	Horizontal	PASS
704.888	-25.13	-13.0	12.1	Horizontal	N.A
1418.953	-47.92	-13.0	34.9	Horizontal	PASS

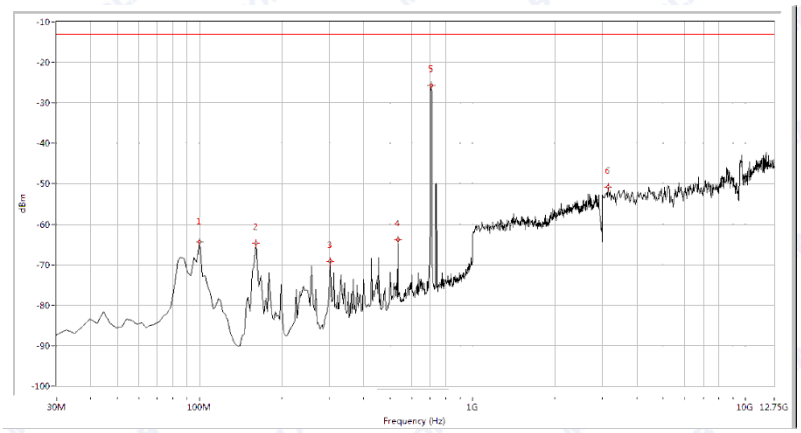


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.96	-13.0	53.0	Vertical	PASS
160.623	-63.85	-13.0	50.8	Vertical	PASS
257.382	-70.23	-13.0	57.2	Vertical	PASS
533.142	-64.45	-13.0	51.4	Vertical	PASS
707.307	-22.69	-13.0	9.7	Vertical	N.A
1413.965	-53.34	-13.0	40.3	Vertical	PASS

LTE Band 12 5MHz BW, Mid Channel, 16QAM

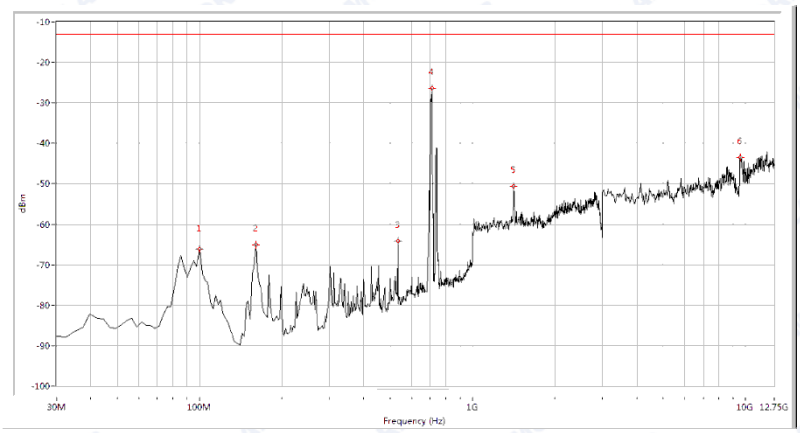


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.56	-13.0	51.6	Horizontal	PASS
160.623	-63.67	-13.0	50.7	Horizontal	PASS
533.142	-64.05	-13.0	51.1	Horizontal	PASS
709.726	-23.05	-13.0	10.1	Horizontal	N.A
1418.953	-49.31	-13.0	36.3	Horizontal	PASS
9710.723	-42.93	-13.0	29.9	Horizontal	PASS

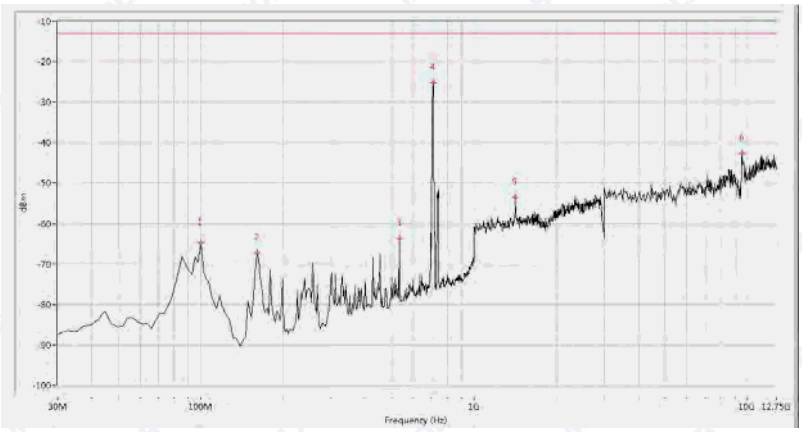


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.40	-13.0	51.4	Vertical	PASS
160.623	-64.73	-13.0	51.7	Vertical	PASS
300.923	-69.24	-13.0	56.2	Vertical	PASS
533.142	-63.87	-13.0	50.9	Vertical	PASS
707.307	-25.74	-13.0	12.7	Vertical	N.A
3145.885	-50.78	-13.0	37.8	Vertical	PASS

LTE Band 12 10MHz BW, Mid Channel, QPSK

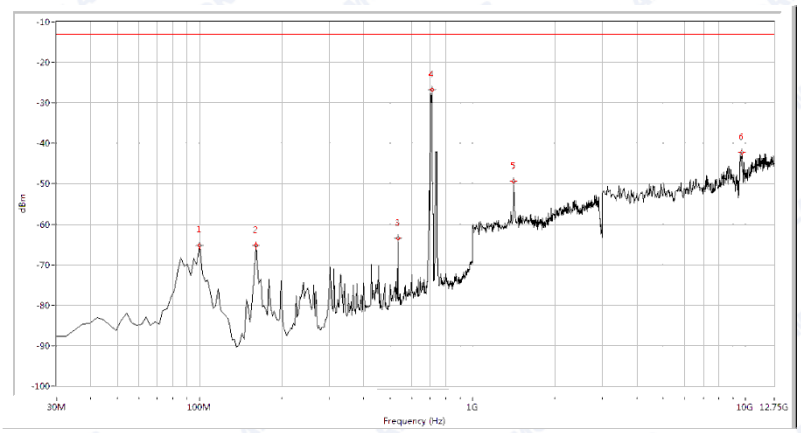


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-66.11	-13.0	53.1	Horizontal	PASS
160.623	-65.13	-13.0	52.1	Horizontal	PASS
533.142	-64.12	-13.0	51.1	Horizontal	PASS
709.726	-26.31	-13.0	13.3	Horizontal	N.A
1418.953	-50.70	-13.0	37.7	Horizontal	PASS
9589.152	-43.55	-13.0	30.6	Horizontal	PASS

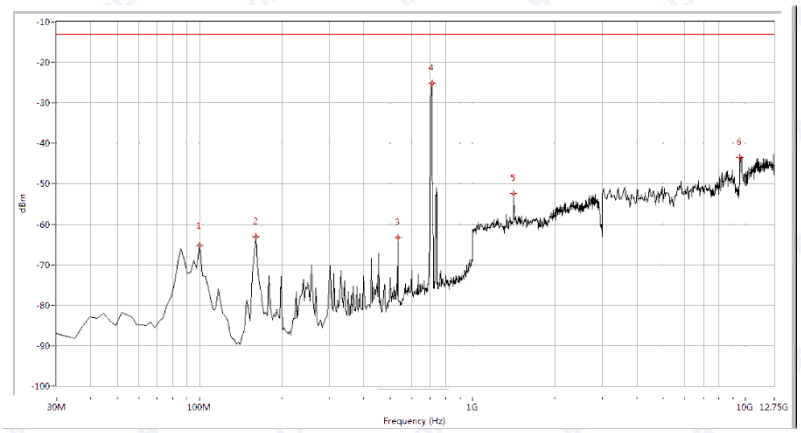


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.63	-13.0	51.6	Vertical	PASS
160.623	-67.14	-13.0	54.1	Vertical	PASS
533.142	-63.56	-13.0	50.6	Vertical	PASS
709.726	-25.18	-13.0	12.2	Vertical	N.A
1418.953	-53.54	-13.0	40.5	Vertical	PASS
9564.838	-42.54	-13.0	29.5	Vertical	PASS

LTE Band 12 10MHz BW, Mid Channel, 16QAM

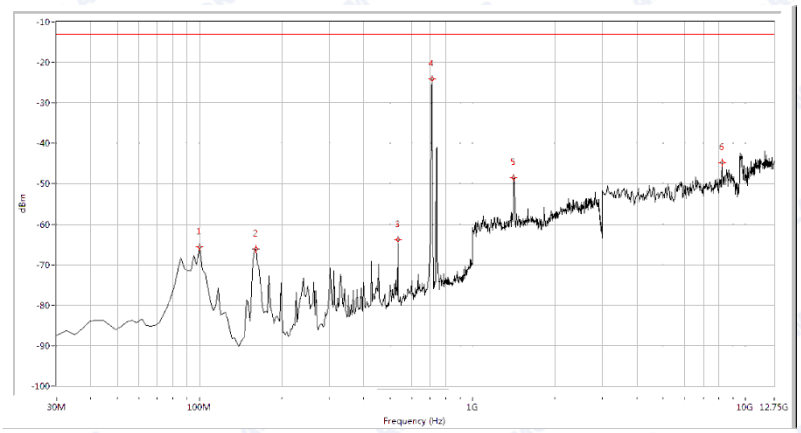


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.20	-13.0	52.2	Horizontal	PASS
160.623	-65.16	-13.0	52.2	Horizontal	PASS
533.142	-63.47	-13.0	50.5	Horizontal	PASS
709.726	-26.78	-13.0	13.8	Horizontal	N.A
1418.953	-49.35	-13.0	36.3	Horizontal	PASS
9710.723	-42.27	-13.0	29.3	Horizontal	PASS

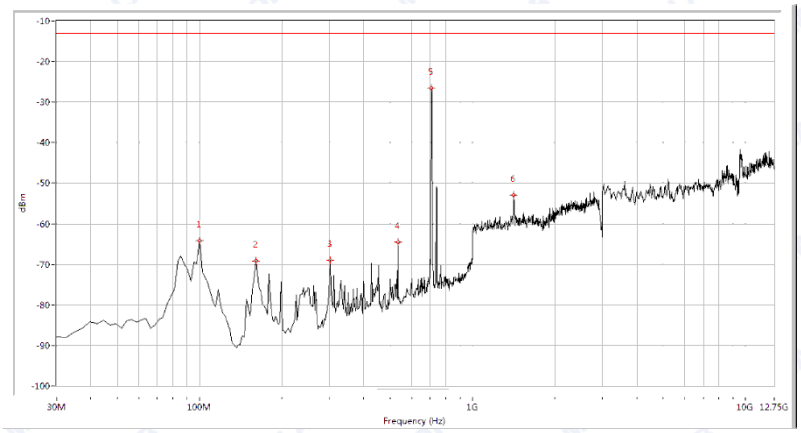


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.26	-13.0	52.3	Vertical	PASS
160.623	-63.12	-13.0	50.1	Vertical	PASS
533.142	-63.30	-13.0	50.3	Vertical	PASS
709.726	-25.13	-13.0	12.1	Vertical	N.A
1418.953	-52.41	-13.0	39.4	Vertical	PASS
9516.209	-43.53	-13.0	30.5	Vertical	PASS

LTE Band 17 5MHz BW, Mid Channel, QPSK

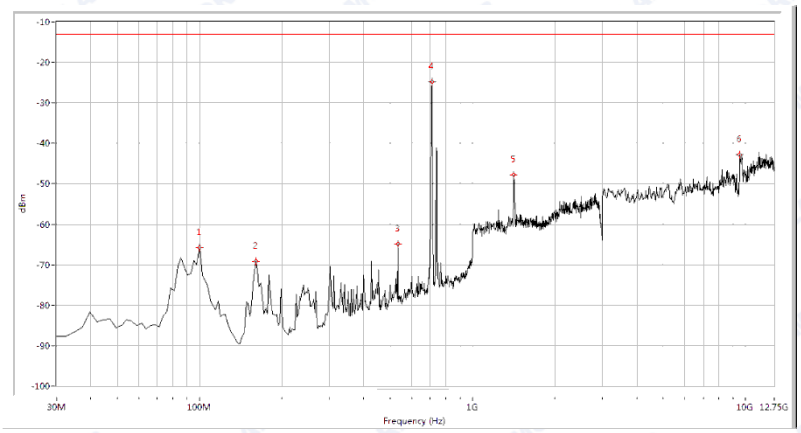


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.63	-13.0	52.6	Horizontal	PASS
160.623	-66.08	-13.0	53.1	Horizontal	PASS
533.142	-63.77	-13.0	50.8	Horizontal	PASS
709.726	-24.09	-13.0	11.1	Horizontal	N.A
1418.953	-48.43	-13.0	35.4	Horizontal	PASS
8203.242	-44.77	-13.0	31.8	Horizontal	PASS

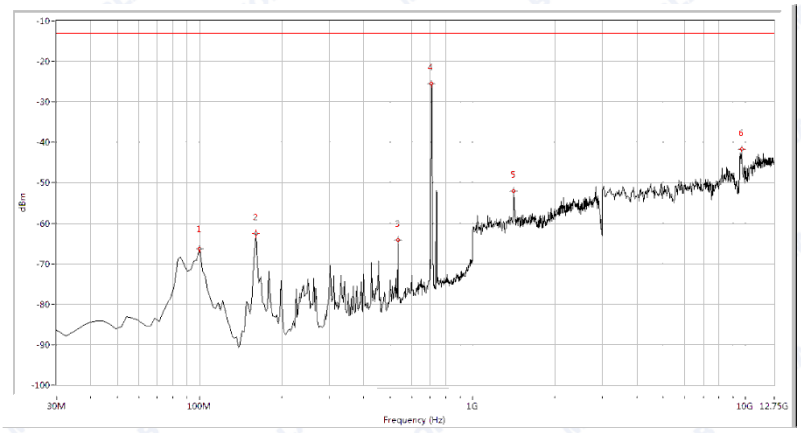


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-64.15	-13.0	51.1	Vertical	PASS
160.623	-69.14	-13.0	56.1	Vertical	PASS
300.923	-68.99	-13.0	56.0	Vertical	PASS
533.142	-64.55	-13.0	51.6	Vertical	PASS
707.307	-26.57	-13.0	13.6	Vertical	N.A
1418.953	-53.04	-13.0	40.0	Vertical	PASS

LTE Band 17 5MHz BW, Mid Channel, 16QAM

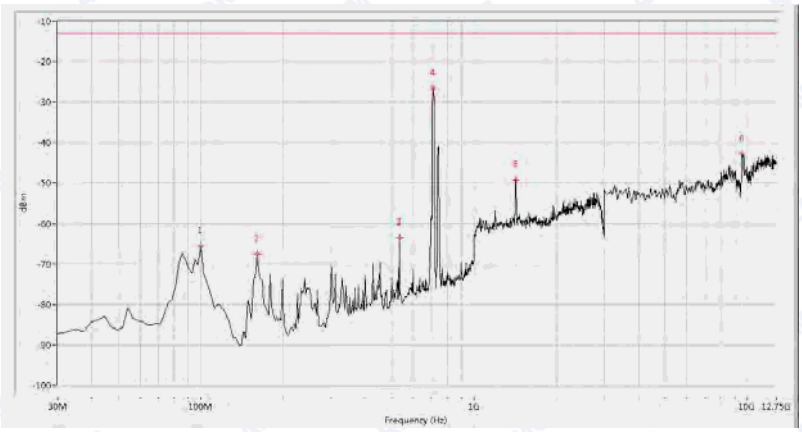


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.82	-13.0	52.8	Horizontal	PASS
160.623	-69.21	-13.0	56.2	Horizontal	PASS
533.142	-64.96	-13.0	52.0	Horizontal	PASS
709.726	-24.84	-13.0	11.8	Horizontal	N.A
1418.953	-47.78	-13.0	34.8	Horizontal	PASS
9540.524	-42.76	-13.0	29.8	Horizontal	PASS

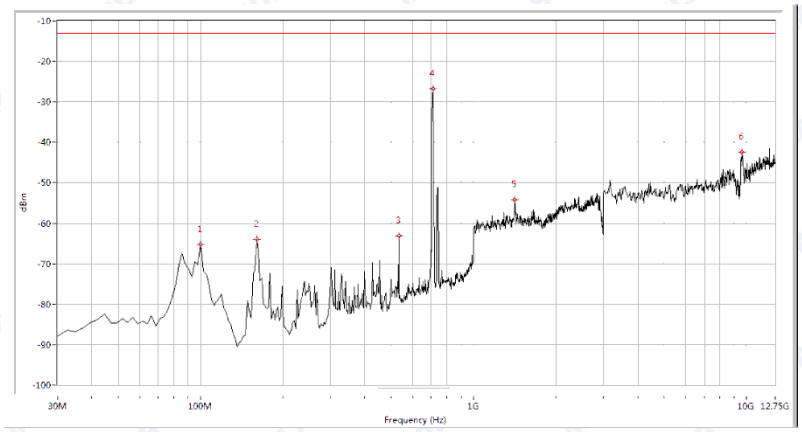


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-66.24	-13.0	53.2	Vertical	PASS
160.623	-62.66	-13.0	49.7	Vertical	PASS
533.142	-64.25	-13.0	51.3	Vertical	PASS
707.307	-25.53	-13.0	12.5	Vertical	N.A
1418.953	-52.04	-13.0	39.0	Vertical	PASS
9686.409	-41.64	-13.0	28.6	Vertical	PASS

LTE Band 17 10MHz BW, Mid Channel, QPSK

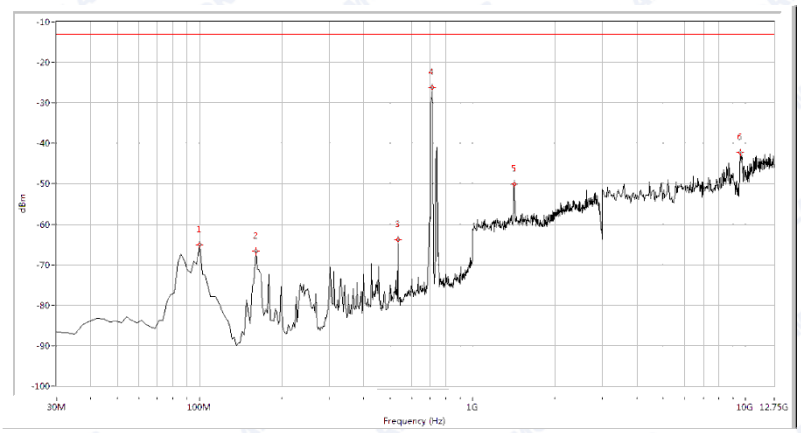


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.65	-13.0	52.6	Horizontal	PASS
160.623	-67.65	-13.0	54.6	Horizontal	PASS
533.142	-63.48	-13.0	50.5	Horizontal	PASS
709.726	-26.50	-13.0	13.5	Horizontal	N.A
1423.940	-49.24	-13.0	36.2	Horizontal	PASS
9589.152	-42.79	-13.0	29.8	Horizontal	PASS

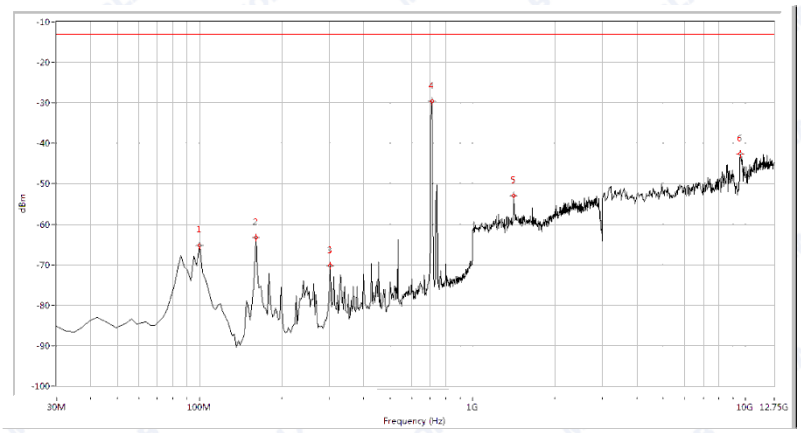


Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.17	-13.0	52.2	Vertical	PASS
160.623	-64.08	-13.0	51.1	Vertical	PASS
533.142	-63.04	-13.0	50.0	Vertical	PASS
709.726	-26.67	-13.0	13.7	Vertical	N.A
1418.953	-54.19	-13.0	41.2	Vertical	PASS
9662.095	-42.37	-13.0	29.4	Vertical	PASS

LTE Band 17 10MHz BW, Mid Channel, 16QAM



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.10	-13.0	52.1	Horizontal	PASS
160.623	-66.59	-13.0	53.6	Horizontal	PASS
533.142	-63.80	-13.0	50.8	Horizontal	PASS
712.145	-26.20	-13.0	13.2	Horizontal	N.A
1423.940	-50.11	-13.0	37.1	Horizontal	PASS
9589.152	-42.26	-13.0	29.3	Horizontal	PASS



Fre. (MHz)	Peak	Limit(PK)	Margin	Antenna	Verdict
100.150	-65.22	-13.0	52.2	Vertical	PASS
160.623	-63.27	-13.0	50.3	Vertical	PASS
300.923	-70.18	-13.0	57.2	Vertical	PASS
709.726	-29.58	-13.0	16.6	Vertical	N.A
1418.953	-52.94	-13.0	39.9	Vertical	PASS
9564.838	-42.60	-13.0	29.6	Vertical	PASS

***** END OF REPORT *****