



Appendix B.9

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant 13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.88	14.23	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.89	14.24	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.81	14.16	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.94	13.29	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.81	14.16	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.71	14.06	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.81	14.16	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.88	13.23	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.74	14.09	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.83	14.18	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.51	13.86	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.01	13.36	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.15	13.50	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.27	13.62	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.10	13.45	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.97	12.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.21	13.56	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.09	13.44	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.27	13.62	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.00	12.35	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.10	13.45	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.20	13.55	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.33	13.68	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.98	12.33	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	22.19	12.54	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.20	12.55	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	22.08	12.43	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	20.99	11.34	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	22.12	12.47	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	22.23	12.58	34.77	PASS



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Band17	5MHz	64QAM	23790	1RB#24	22.16	12.51	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.96	11.31	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	22.23	12.58	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	22.12	12.47	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	22.13	12.48	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	21.06	11.41	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.19	14.54	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.12	14.47	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.14	14.49	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.90	13.25	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.31	14.66	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.12	14.47	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.08	14.43	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.94	13.29	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.95	14.30	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.71	14.06	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.85	14.20	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.89	13.24	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.78	14.13	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.21	13.56	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.39	13.74	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.93	12.28	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.58	13.93	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.40	13.75	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.23	13.58	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.90	12.25	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.37	13.72	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.07	13.42	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.12	13.47	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.00	12.35	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	22.45	12.80	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	22.03	12.38	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	22.26	12.61	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.95	11.30	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	22.26	12.61	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	22.20	12.55	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	22.58	12.93	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	21.01	11.36	34.77	PASS



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Band17	10MHz	64QAM	23800	1RB#0	22.49	12.84	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	22.03	12.38	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	22.18	12.53	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.97	11.32	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

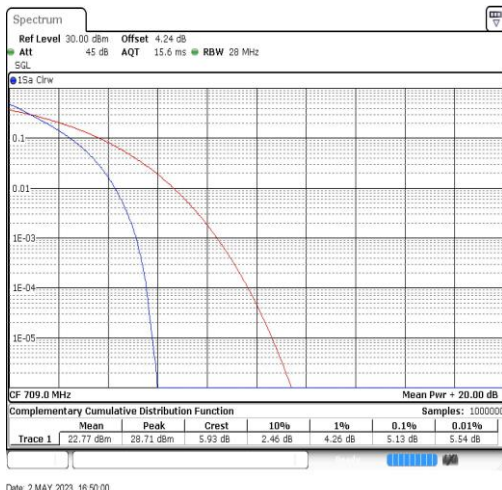
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.13	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.01	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	4.99	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.88	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.83	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.83	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.32	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.29	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.23	13	PASS



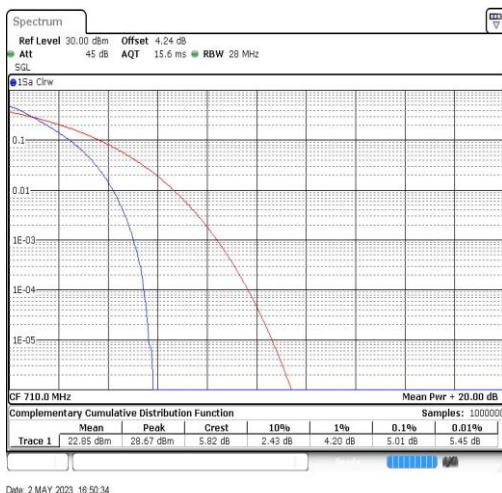
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Test Graphs



Band17-10MHz-QPSK-23780-50RB#0

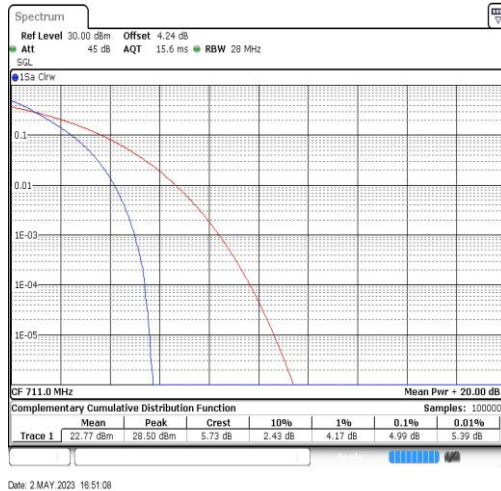


Band17-10MHz-QPSK-23790-50RB#0



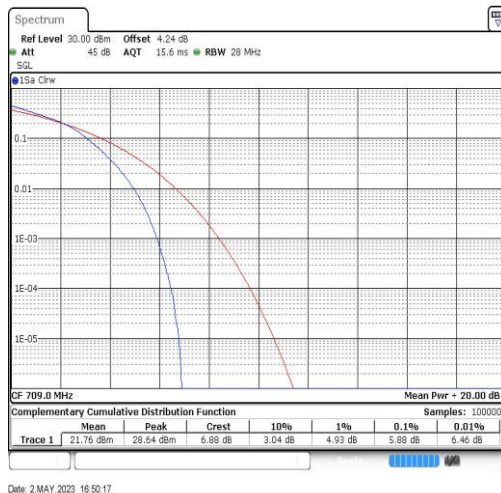
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Date: 2 MAY 2023 16:51:08

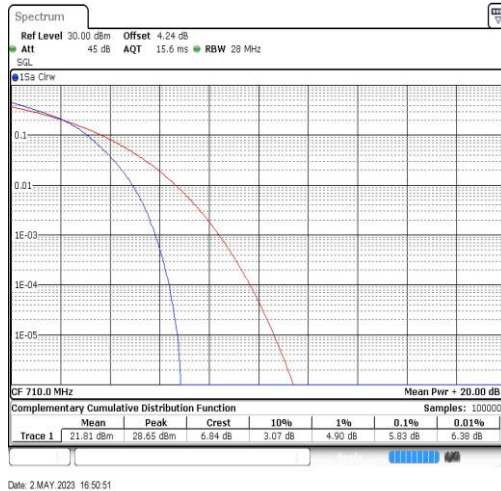
Band17-10MHz-QPSK-23800-50RB#0



Date: 2 MAY 2023 16:50:17

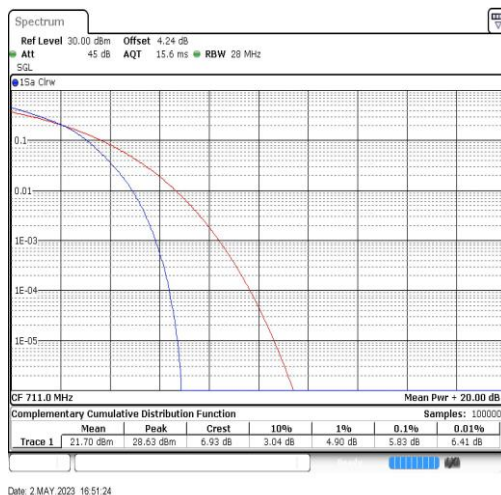
Band17-10MHz-16QAM-23780-50RB#0





Date: 2 MAY 2023 16:50:51

Band17-10MHz-16QAM-23790-50RB#0



Date: 2 MAY 2023 16:51:24

Band17-10MHz-16QAM-23800-50RB#0

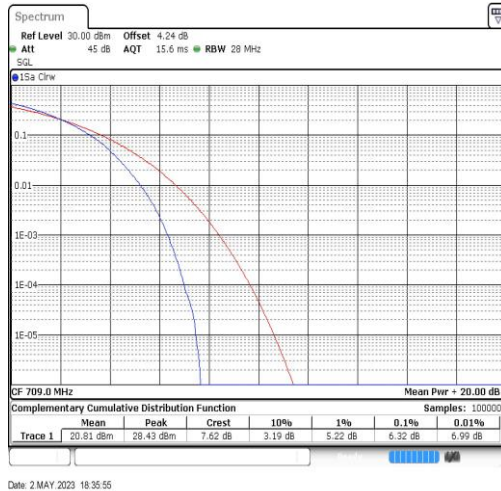


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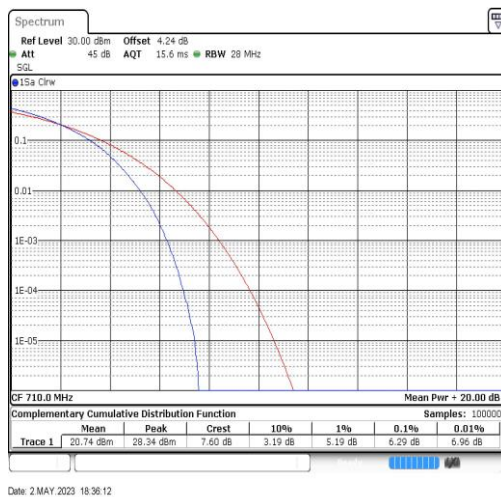
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Band17-10MHz-64QAM-23780-50RB#0

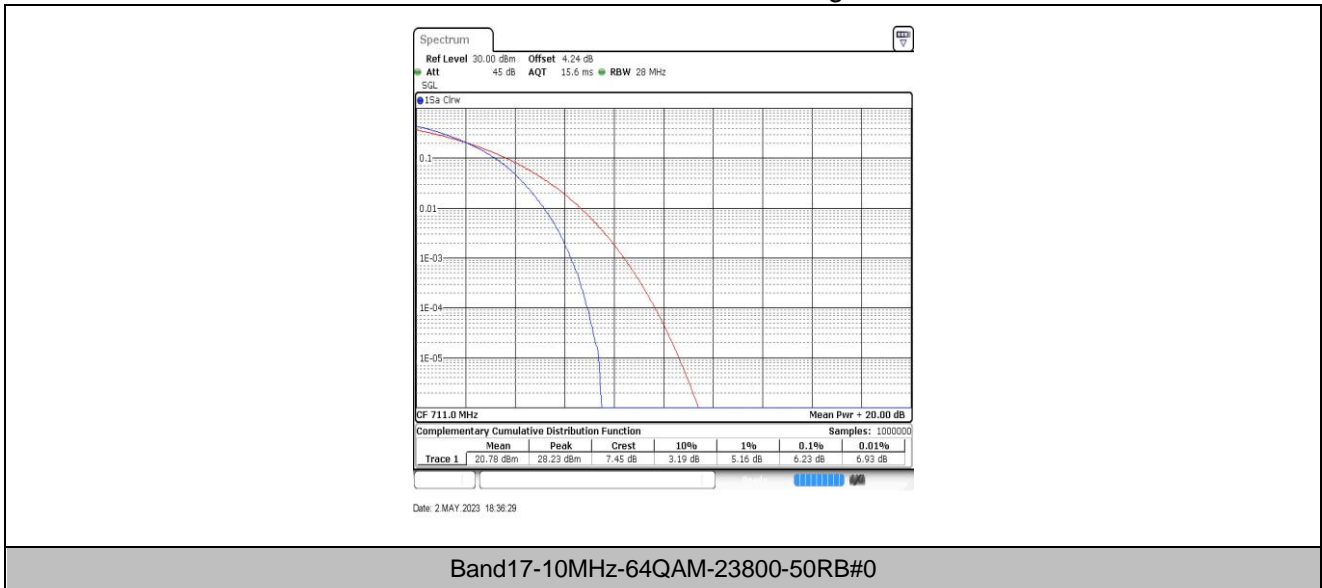


Band17-10MHz-64QAM-23790-50RB#0



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Band17-10MHz-64QAM-23800-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

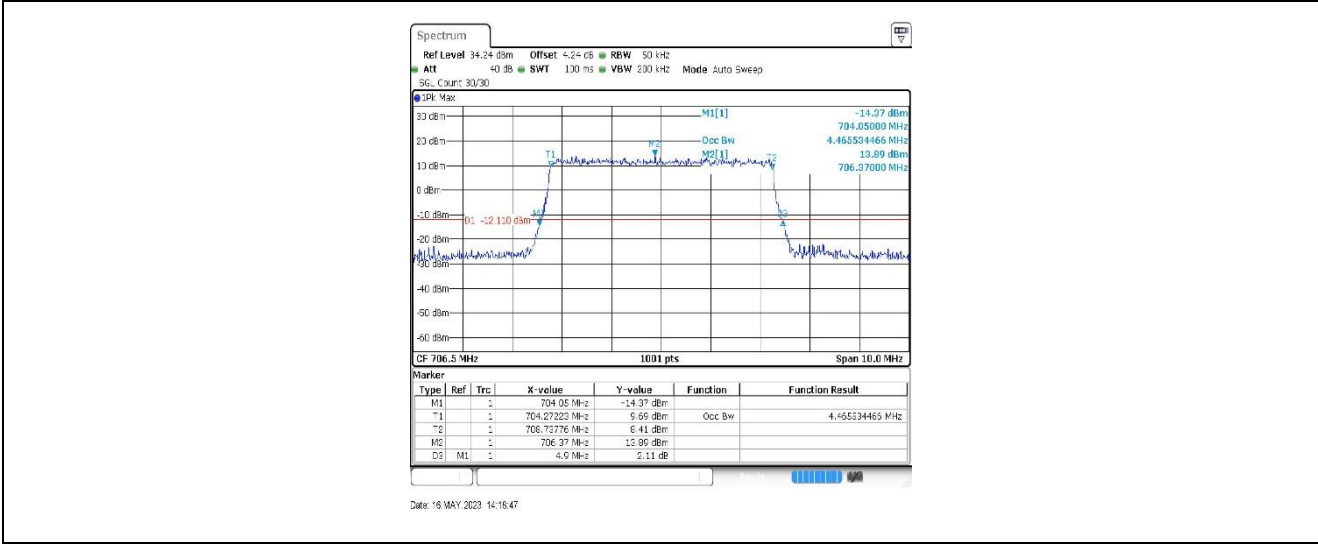
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.466	4.90	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.466	4.90	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.476	4.90	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.476	4.94	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.466	4.91	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.466	4.93	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.476	4.88	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.476	4.91	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.476	4.93	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.918	9.70	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.952	9.70	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.918	9.70	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.918	9.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.918	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.918	9.63	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.918	9.80	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.918	9.70	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.918	9.70	PASS



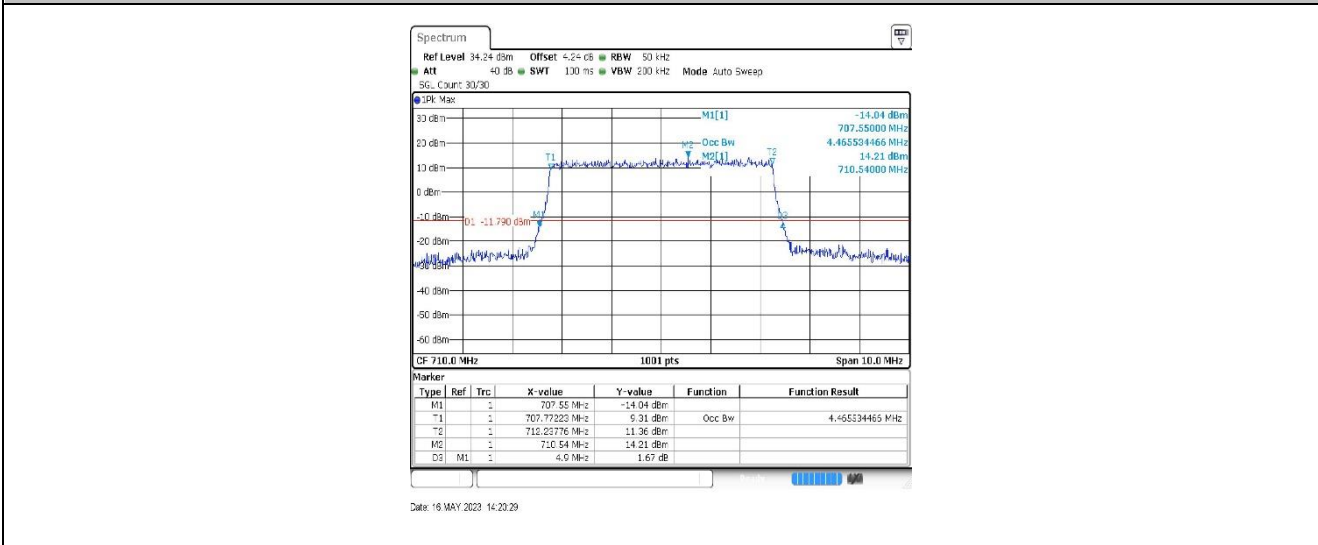
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Test Graphs



Band17-5MHz-QPSK-23755-25RB#0-9.9

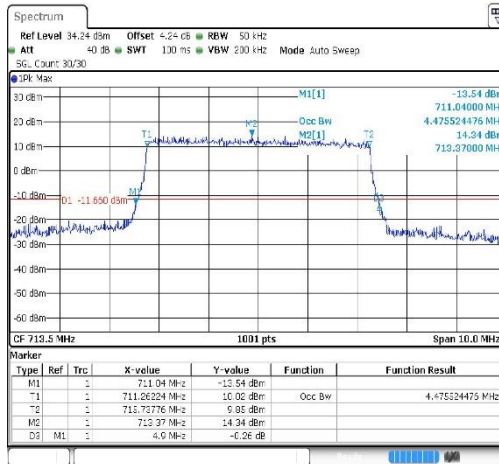


Band17-5MHz-QPSK-23790-25RB#0-9.91



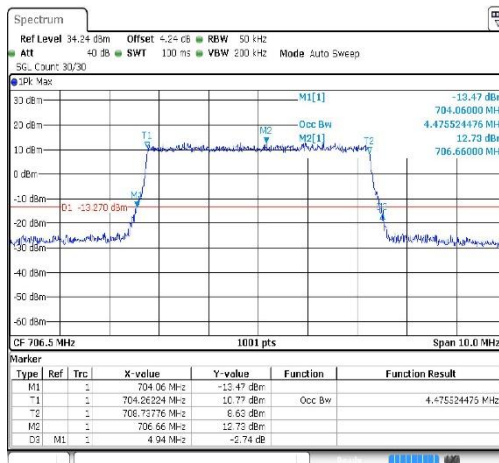
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Date: 16 MAY 2023 14:21:16

Band17-5MHz-QPSK-23825-25RB#0-9.9



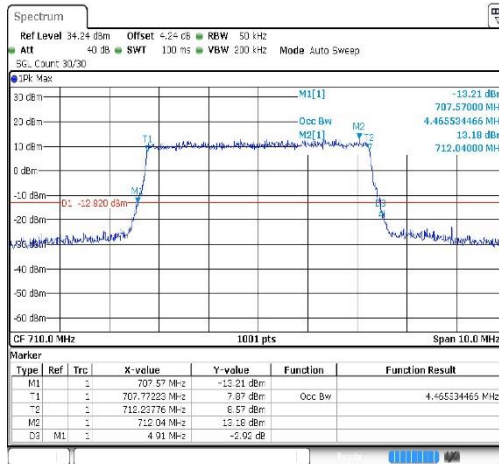
Date: 16 MAY 2023 14:19:11

Band17-5MHz-16QAM-23755-25RB#0-9.9



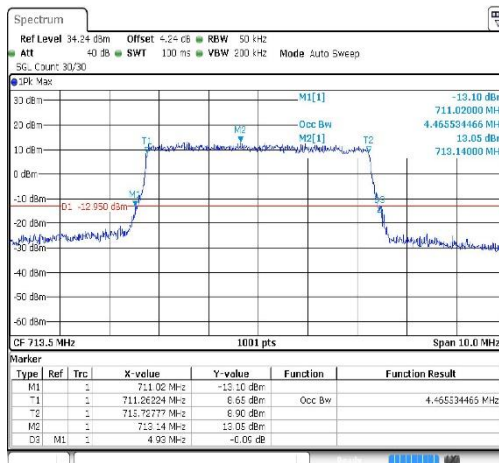
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Date: 16 MAY 2023 14:20:52

Band17-5MHz-16QAM-23790-25RB#0-9.91



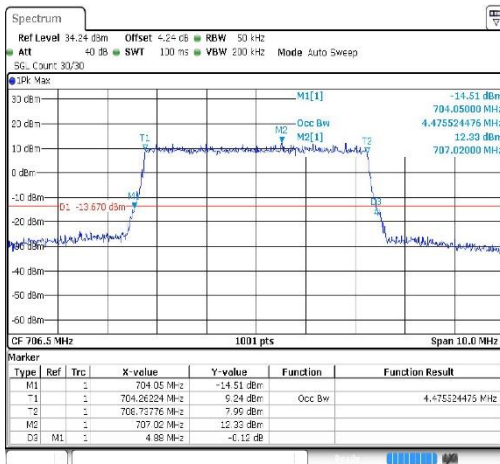
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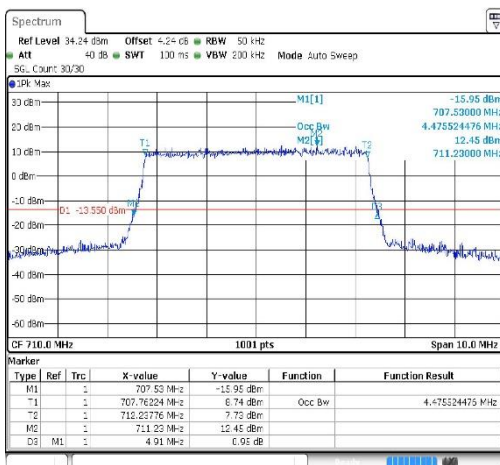
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Date: 16 MAY 2023 14:23:02

Band17-5MHz-64QAM-23755-25RB#0-9.9



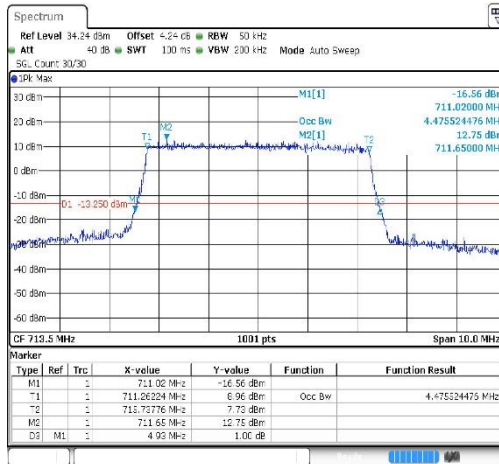
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Band17-5MHz-64QAM-23790-25RB#0-9.9



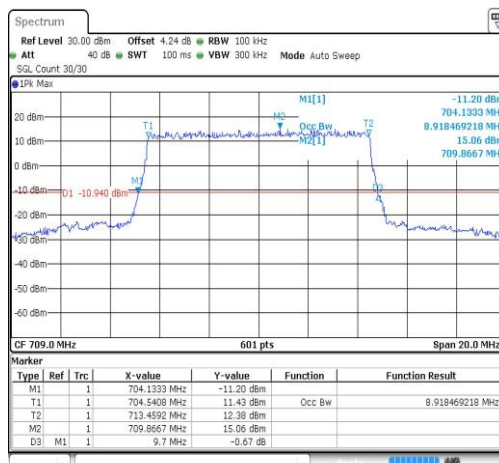
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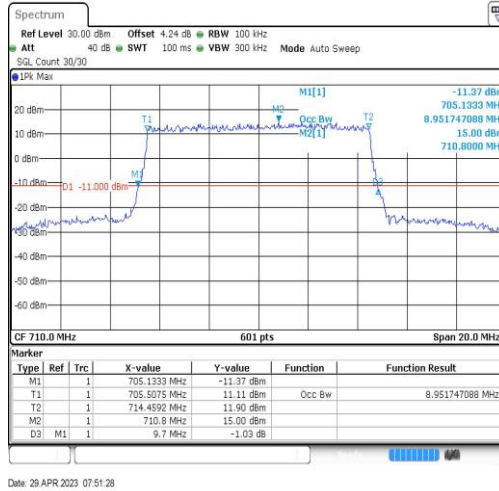
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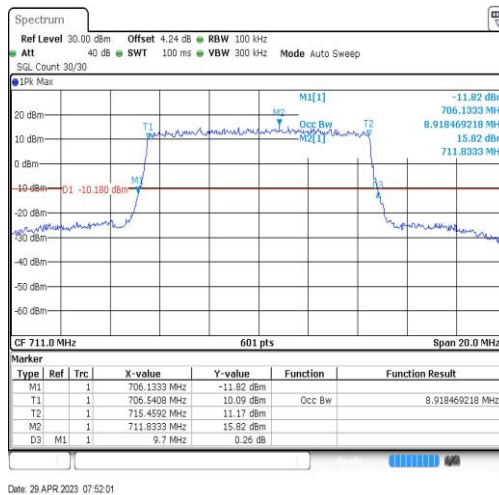
Date: 29 APR 2023 07:50:55

Band17-10MHz-QPSK-23780-50RB#0-8.918





Band17-10MHz-QPSK-23790-50RB#0-8.952



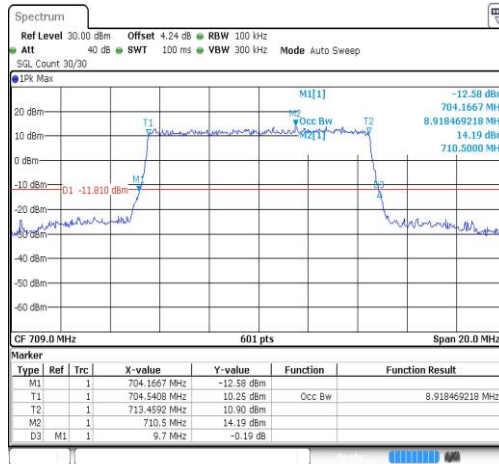
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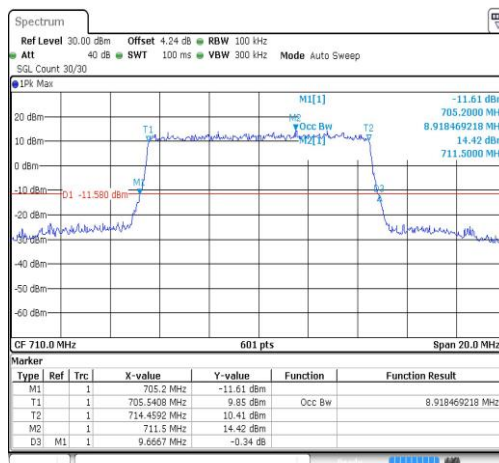
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Date: 29 APR 2023 07:51:12

Band17-10MHz-16QAM-23780-50RB#0-8.918



Date: 29 APR 2023 07:51:45

Band17-10MHz-16QAM-23790-50RB#0-8.918

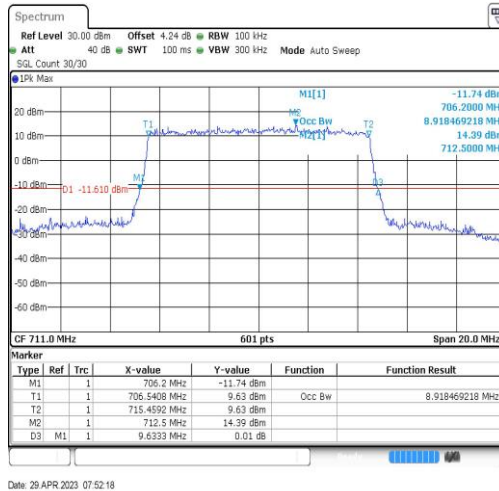


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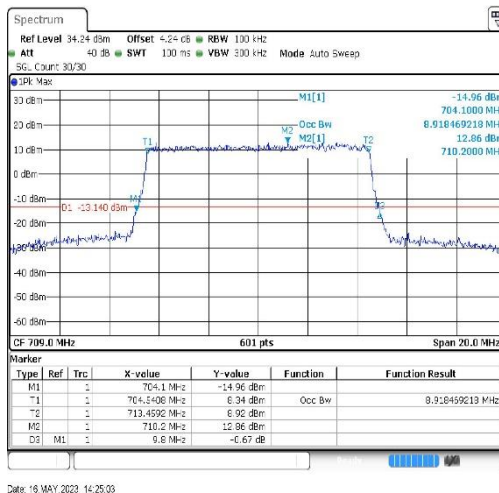
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Date: 29 APR 2023 07:52:18

Band17-10MHz-16QAM-23800-50RB#0-8.918



Date: 16 MAY 2023 14:25:03

Band17-10MHz-64QAM-23780-50RB#0-8.952

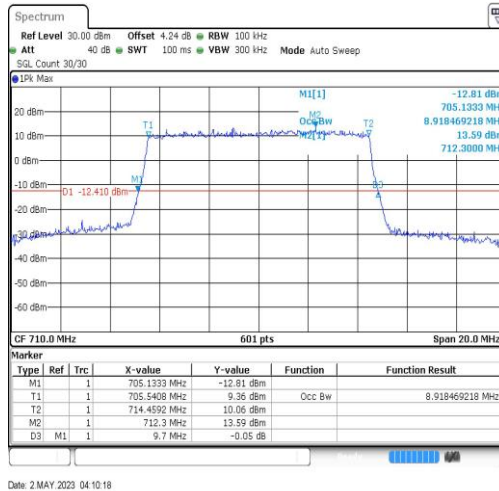


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Shenzhen Branch, Wireless Laboratory

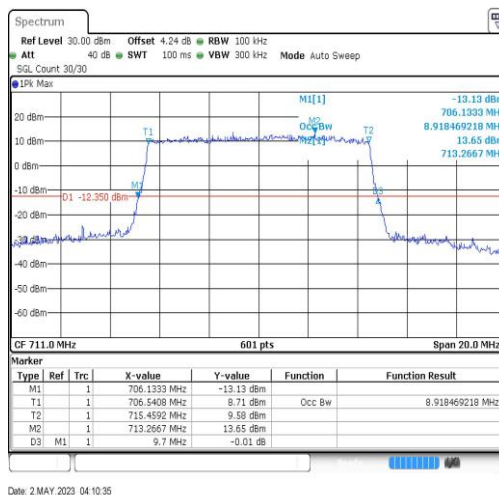
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Band17-10MHz-64QAM-23790-50RB#0-8.918



Band17-10MHz-64QAM-23800-50RB#0-8.918

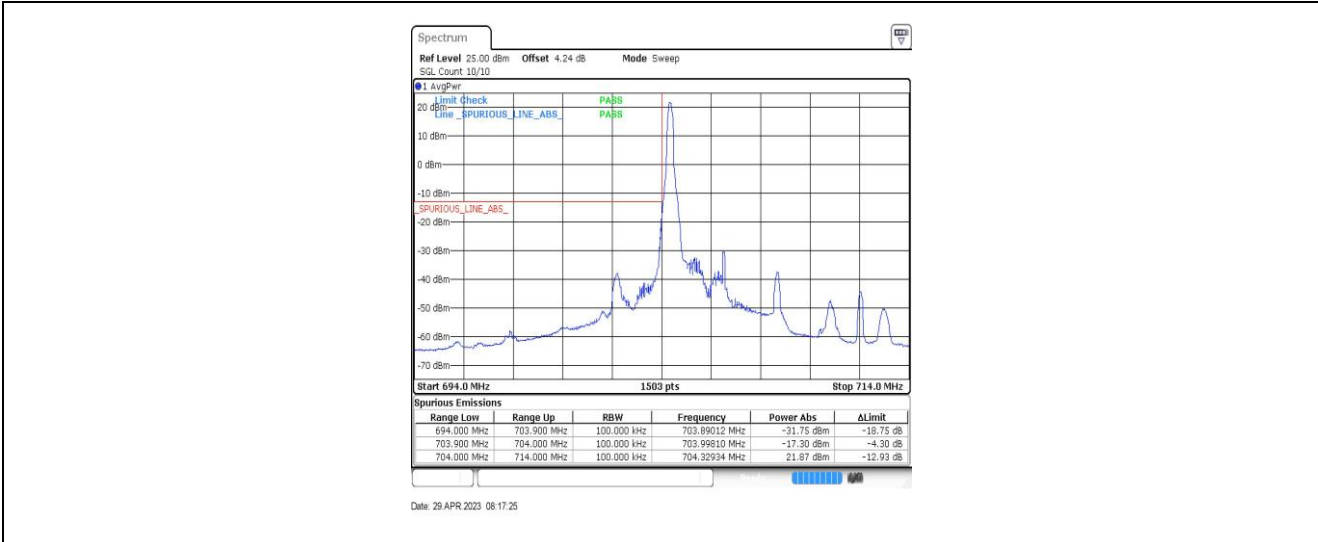


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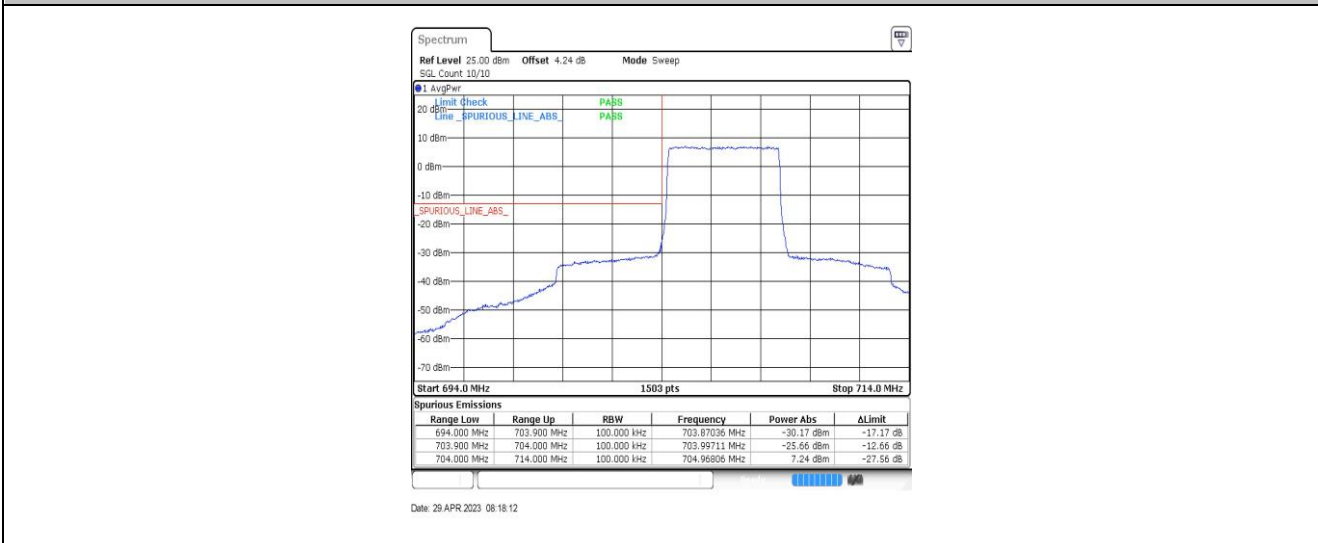
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Band Edge

Test Graphs



Band17-5MHz-QPSK-23755-1RB#0

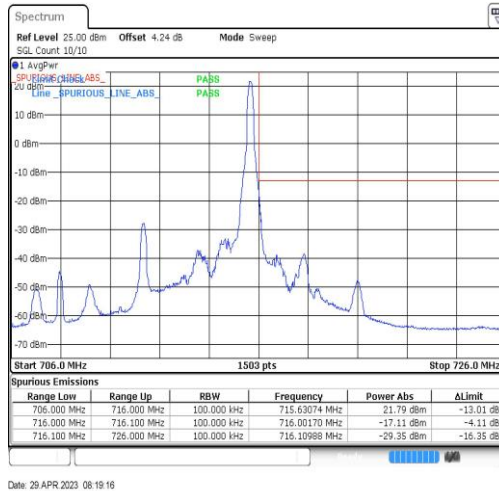


Band17-5MHz-QPSK-23755-25RB#0

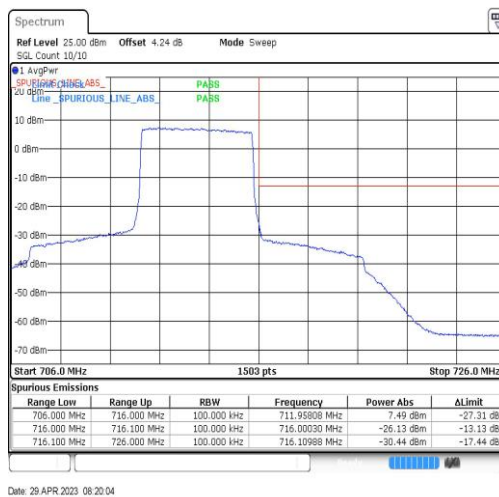


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Band17-5MHz-QPSK-23825-1RB#24

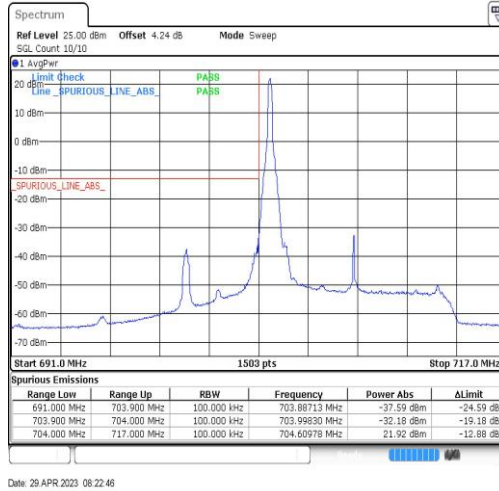


Band17-5MHz-QPSK-23825-25RB#0

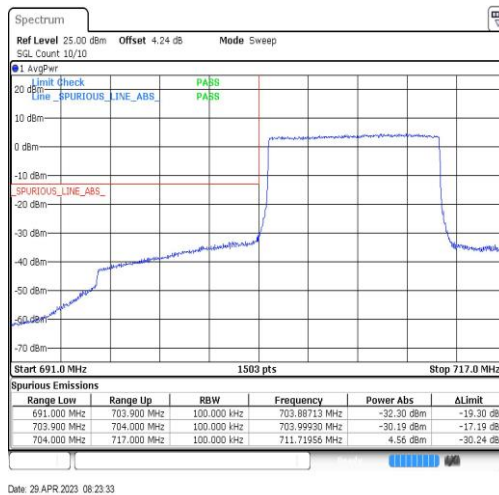


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Band17-10MHz-QPSK-23780-1RB#0

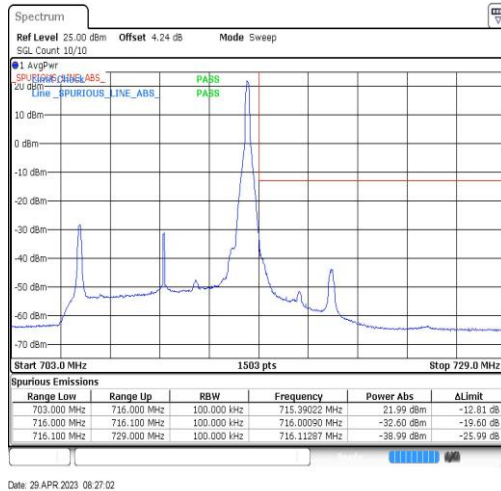


Band17-10MHz-QPSK-23780-50RB#0

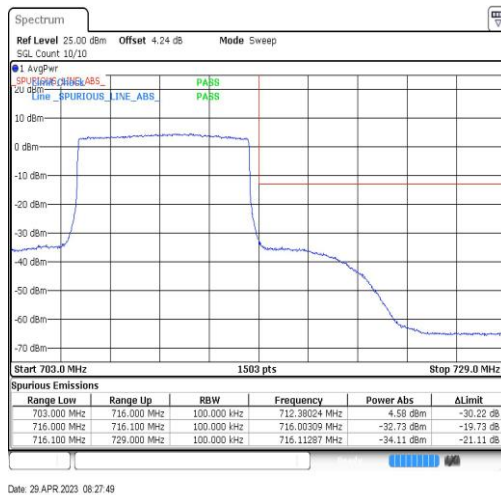


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Band17-10MHz-QPSK-23800-1RB#49



Band17-10MHz-QPSK-23800-50RB#0

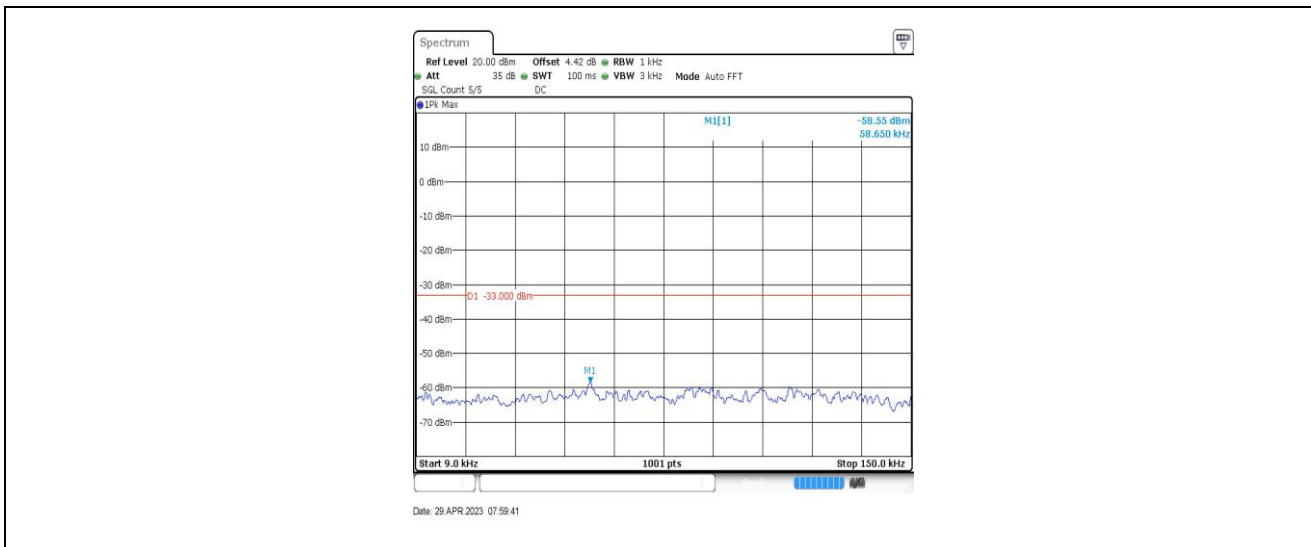


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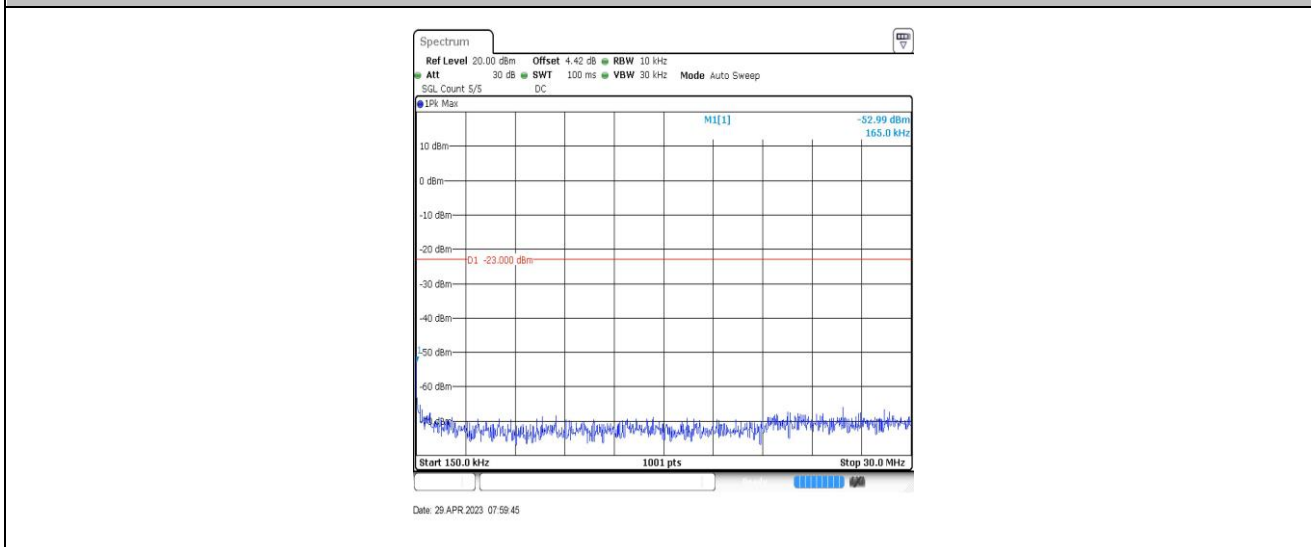
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Conducted Spurious Emission

Test Graphs



Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz

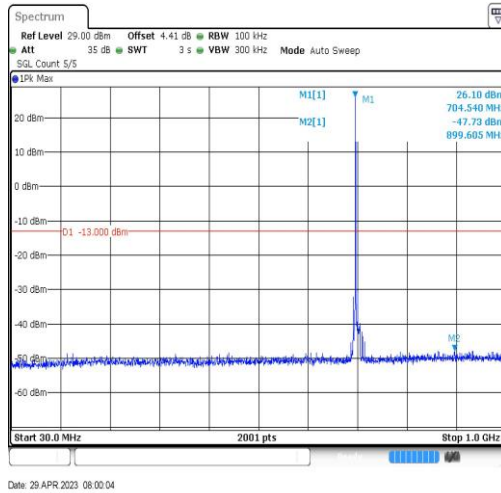


Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz

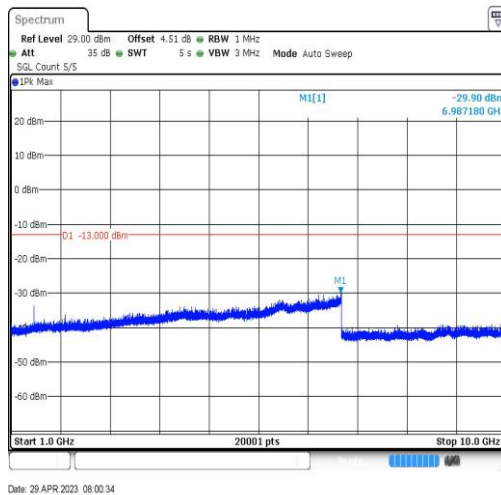


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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz

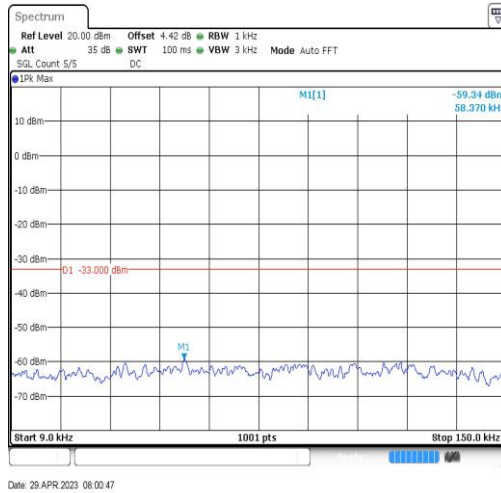


Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz

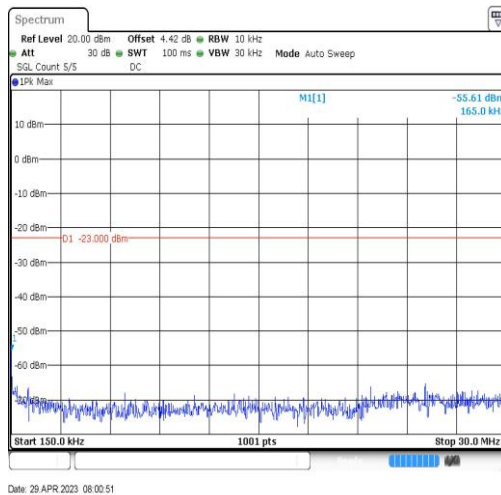


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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz

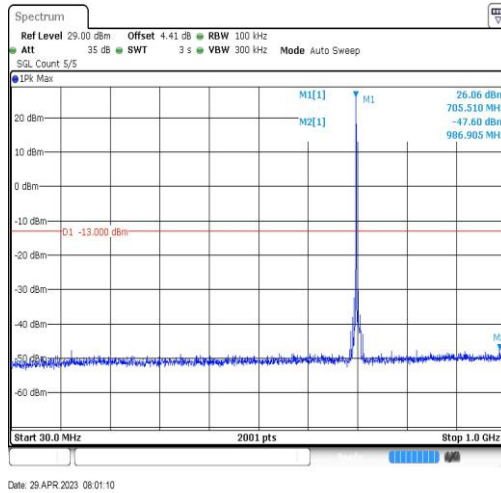


Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

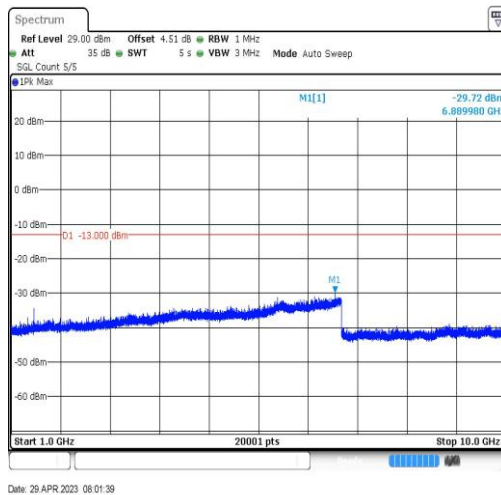


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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz

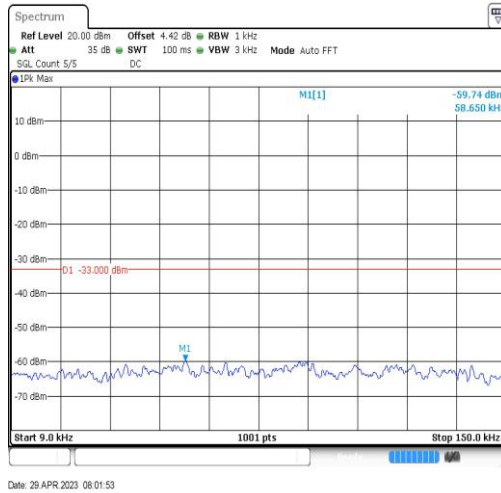


Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz

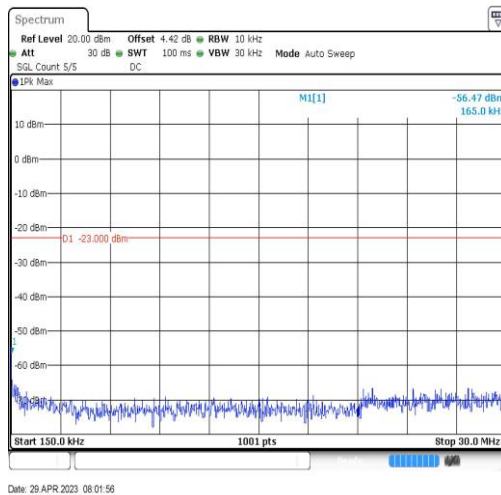


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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz

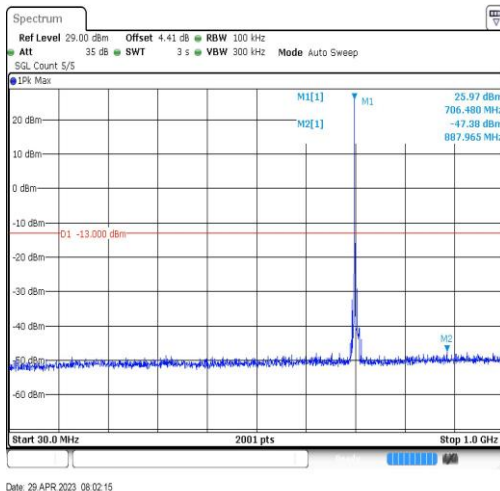


Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



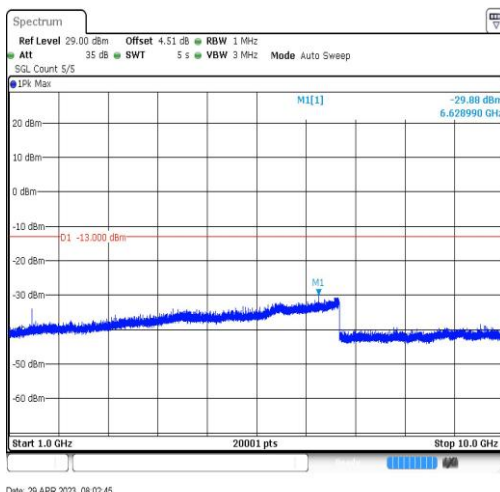
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Date: 29 APR 2023 08:02:15

Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



Date: 29 APR 2023 08:02:45

Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_17 ANT 13 _10MHz_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.0511	53.79	-47.41	24.97	-63.91	-13.00	50.91	146	258	Horizontal
2	2113.8892	51.18	-46.89	26.72	-64.25	-13.00	51.25	169	21	Horizontal
3	3917.3959	48.57	-44.19	29.77	-61.11	-13.00	48.11	264	360	Horizontal
4	5700.735	47.14	-41.14	32.50	-56.76	-13.00	43.76	290	97	Horizontal
5	7411.6206	45.04	-38.28	36.72	-51.78	-13.00	38.78	223	12	Horizontal
6	9889.7445	42.94	-35.04	38.52	-48.84	-13.00	35.84	169	285	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.0511	51.64	-47.41	24.97	-66.06	-13.00	53.06	180	264	Vertical
2	2346.4183	48.09	-46.63	27.56	-66.24	-13.00	53.24	158	10	Vertical
3	3199.86	47.97	-44.60	28.40	-63.49	-13.00	50.49	232	199	Vertical
4	3937.6969	48.72	-44.19	29.85	-60.88	-13.00	47.88	341	76	Vertical
5	5694.0847	47.16	-41.16	32.50	-56.76	-13.00	43.76	386	177	Vertical
6	7444.5222	45.05	-38.28	36.79	-51.70	-13.00	38.70	264	70	Vertical



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Test Band = LTE_17 ANT 13 _10MHz_TM1

Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.0514	55.21	-47.42	24.99	-62.48	-13.00	49.48	169	274	Horizontal
2	2116.8896	50.15	-46.89	26.70	-65.30	-13.00	52.30	236	22	Horizontal
3	3907.5954	48.72	-44.20	29.73	-61.01	-13.00	48.01	233	269	Horizontal
4	5507.5254	47.14	-41.82	32.37	-57.57	-13.00	44.57	336	204	Horizontal
5	7426.6713	45.29	-38.28	36.75	-51.50	-13.00	38.50	328	183	Horizontal
6	9900.595	42.79	-34.98	38.60	-48.85	-13.00	35.85	261	156	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.0514	53.05	-47.42	24.99	-64.64	-13.00	51.64	236	263	Vertical
2	2413.4267	49.02	-46.62	27.45	-65.41	-13.00	52.41	216	194	Vertical
3	3895.6948	49.12	-44.23	29.70	-60.67	-13.00	47.67	223	112	Vertical
4	5605.8803	47.07	-41.42	32.59	-57.02	-13.00	44.02	100	246	Vertical
5	7481.6241	44.95	-38.29	36.86	-51.74	-13.00	38.74	221	54	Vertical
6	9904.7952	42.96	-35.09	38.60	-48.79	-13.00	35.79	264	128	Vertical



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Test Band = LTE_17 ANT 13 _10MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1369.2962	48.77	-47.54	25.02	-69.01	-13.00	56.01	226	113	Horizontal
2	2362.9204	48.23	-46.62	27.55	-66.10	-13.00	53.10	236	266	Horizontal
3	3163.4582	47.62	-44.90	28.62	-63.92	-13.00	50.92	216	300	Horizontal
4	4418.6209	48.28	-43.32	30.10	-60.20	-13.00	47.20	226	140	Horizontal
5	5662.5831	47.14	-41.25	32.50	-56.87	-13.00	43.87	263	17	Horizontal
6	7420.021	45.00	-38.28	36.74	-51.80	-13.00	38.80	219	129	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1475.8095	48.68	-47.56	25.09	-69.05	-13.00	56.05	387	282	Vertical
2	2410.4263	49.29	-46.62	27.44	-65.15	-13.00	52.15	295	358	Vertical
3	3000.7	48.19	-45.01	28.60	-63.48	-13.00	50.48	249	129	Vertical
4	3921.5961	48.38	-44.19	29.79	-61.28	-13.00	48.28	261	272	Vertical
5	6084.0042	46.60	-40.65	33.43	-55.88	-13.00	42.88	224	75	Vertical
6	7829.8915	44.73	-37.77	36.72	-51.58	-13.00	38.58	186	64	Vertical



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Test Band = LTE_17 ANT 31_10MHz_TM1
Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.0511	50.16	-47.41	24.97	-67.54	-13.00	54.54	238	2	Horizontal
2	2113.8892	49.08	-46.89	26.72	-66.35	-13.00	53.35	322	5	Horizontal
3	3119.006	47.99	-45.27	28.82	-63.72	-13.00	50.72	143	348	Horizontal
4	4506.1253	48.43	-42.98	29.61	-60.20	-13.00	47.20	318	249	Horizontal
5	6219.811	46.84	-40.79	33.38	-55.83	-13.00	42.83	155	333	Horizontal
6	7844.2422	44.82	-37.71	36.78	-51.37	-13.00	38.37	147	91	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.3012	49.72	-47.41	24.97	-67.98	-13.00	54.98	245	27	Vertical
2	2201.9002	48.42	-47.00	26.90	-66.94	-13.00	53.94	381	312	Vertical
3	3614.2807	48.97	-44.37	29.01	-61.65	-13.00	48.65	223	202	Vertical
4	5344.4172	47.69	-42.17	32.17	-57.57	-13.00	44.57	261	165	Vertical
5	7441.0221	45.00	-38.28	36.78	-51.76	-13.00	38.76	157	70	Vertical
6	9910.7455	43.13	-35.24	38.61	-48.76	-13.00	35.76	215	358	Vertical



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Test Band = LTE_17 ANT 31_10MHz_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.3014	50.91	-47.42	24.99	-66.78	-13.00	53.78	256	266	Horizontal
2	2116.8896	48.91	-46.89	26.70	-66.54	-13.00	53.54	266	5	Horizontal
3	3218.7609	47.73	-44.74	28.48	-63.79	-13.00	50.79	215	32	Horizontal
4	5182.3591	47.51	-42.54	31.86	-58.43	-13.00	45.43	385	0	Horizontal
5	7377.6689	45.38	-38.41	36.61	-51.68	-13.00	38.68	294	6	Horizontal
6	9885.5443	43.08	-35.07	38.48	-48.77	-13.00	35.77	211	296	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1675.3344	48.55	-47.47	25.30	-68.88	-13.00	55.88	131	347	Vertical
2	2347.4184	47.90	-46.63	27.57	-66.42	-13.00	53.42	278	141	Vertical
3	3704.2352	48.52	-44.53	29.33	-61.94	-13.00	48.94	194	102	Vertical
4	5692.6846	47.55	-41.16	32.50	-56.37	-13.00	43.37	336	358	Vertical
5	7443.1222	45.07	-38.28	36.79	-51.68	-13.00	38.68	217	3	Vertical
6	9911.4456	42.87	-35.26	38.61	-49.04	-13.00	36.04	266	76	Vertical



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Test Band = LTE_ 17 ANT 31 _10MHz_TM1

Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.0516	50.10	-47.42	25.00	-67.58	-13.00	54.58	316	2	Horizontal
2	2119.64	49.00	-46.90	26.68	-66.48	-13.00	53.48	106	31	Horizontal
3	2412.6766	50.57	-46.62	27.45	-63.86	-13.00	50.86	191	193	Horizontal
4	3644.0322	48.49	-44.42	29.25	-61.94	-13.00	48.94	100	117	Horizontal
5	5116.2058	48.29	-42.52	31.60	-57.89	-13.00	44.89	182	54	Horizontal
6	7750.7875	44.92	-37.73	36.40	-51.67	-13.00	38.67	233	43	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1454.0568	48.58	-47.51	25.27	-68.92	-13.00	55.92	216	157	Vertical
2	2069.1336	48.25	-46.89	26.49	-67.41	-13.00	54.41	172	199	Vertical
3	3056.0028	47.75	-45.25	28.81	-63.95	-13.00	50.95	264	328	Vertical
4	4698.6349	47.79	-42.92	30.59	-59.80	-13.00	46.80	233	328	Vertical
5	7360.518	45.58	-38.52	36.54	-51.66	-13.00	38.66	210	127	Vertical
6	9915.6458	43.21	-35.37	38.62	-48.80	-13.00	35.80	222	159	Vertical



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Test on the worst case:

Test Band = _LTE Band 17 ANT31_10MHz_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	63.26	-53.63	25.78	-59.85	-13.00	46.85	Horizontal
2	2330	54.03	-51.90	27.78	-65.35	-13.00	52.35	Horizontal
3	3309.5	52.86	-49.72	30.51	-61.61	-13.00	48.61	Horizontal
4	5138.5	52.21	-44.26	33.58	-53.73	-13.00	40.73	Horizontal
5	7585	49.86	-42.06	36.73	-50.73	-13.00	37.73	Horizontal
6	9512.5	49.60	-40.09	39.18	-46.57	-13.00	33.57	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409	60.85	-53.63	25.78	-62.26	-13.00	49.26	Vertical
2	2215.5	54.19	-52.00	27.64	-65.43	-13.00	52.43	Vertical
3	3660.5	53.61	-49.23	30.38	-60.50	-13.00	47.50	Vertical
4	5133	52.36	-44.22	33.57	-53.55	-13.00	40.55	Vertical
5	7568	50.10	-42.07	36.76	-50.47	-13.00	37.47	Vertical
6	9474.5	49.25	-40.14	39.10	-47.05	-13.00	34.05	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.80	-0.001127	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.90	0.002676	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-0.60	-0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.40	0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.40	-0.001972	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.50	0.000704	PASS

---End of Attachment---

