

Appendix B.8

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.2	24.31	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.22	24.33	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.89	24	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.1	23.21	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.1	24.21	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.25	24.36	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.85	23.96	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.12	23.23	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23	24.11	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.02	24.13	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.01	24.12	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.18	23.29	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.59	22.7	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.86	22.97	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.83	22.94	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.16	22.27	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.21	23.32	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.91	23.02	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.78	22.89	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.28	22.39	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.83	22.94	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.81	22.92	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.76	22.87	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.08	22.19	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.89	22	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.16	22.27	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.73	21.84	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.3	21.41	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.34	22.45	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.28	22.39	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.94	22.05	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.14	21.25	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	20.85	21.96	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.36	22.47	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.97	22.08	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.42	21.53	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.08	24.19	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.42	24.53	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.07	24.18	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.16	23.27	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.02	24.13	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.31	24.42	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23	24.11	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.13	23.24	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.81	23.92	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.28	24.39	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.9	24.01	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.17	23.28	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.87	22.98	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.01	23.12	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.83	22.94	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.4	22.51	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.81	22.92	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.89	23	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.63	22.74	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.15	22.26	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.76	22.87	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.76	22.87	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.86	22.97	34.77	PASS



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Band17	10MHz	16QAM	23800	50RB#0	21.25	22.36	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.09	22.2	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.02	22.13	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.38	22.49	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.24	21.35	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.09	22.2	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.24	22.35	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	20.87	21.98	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.2	21.31	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.84	21.95	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.26	22.37	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.91	22.02	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.11	21.22	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	5.30	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.26	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.16	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.12	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.04	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.96	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.62	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.48	13	PASS

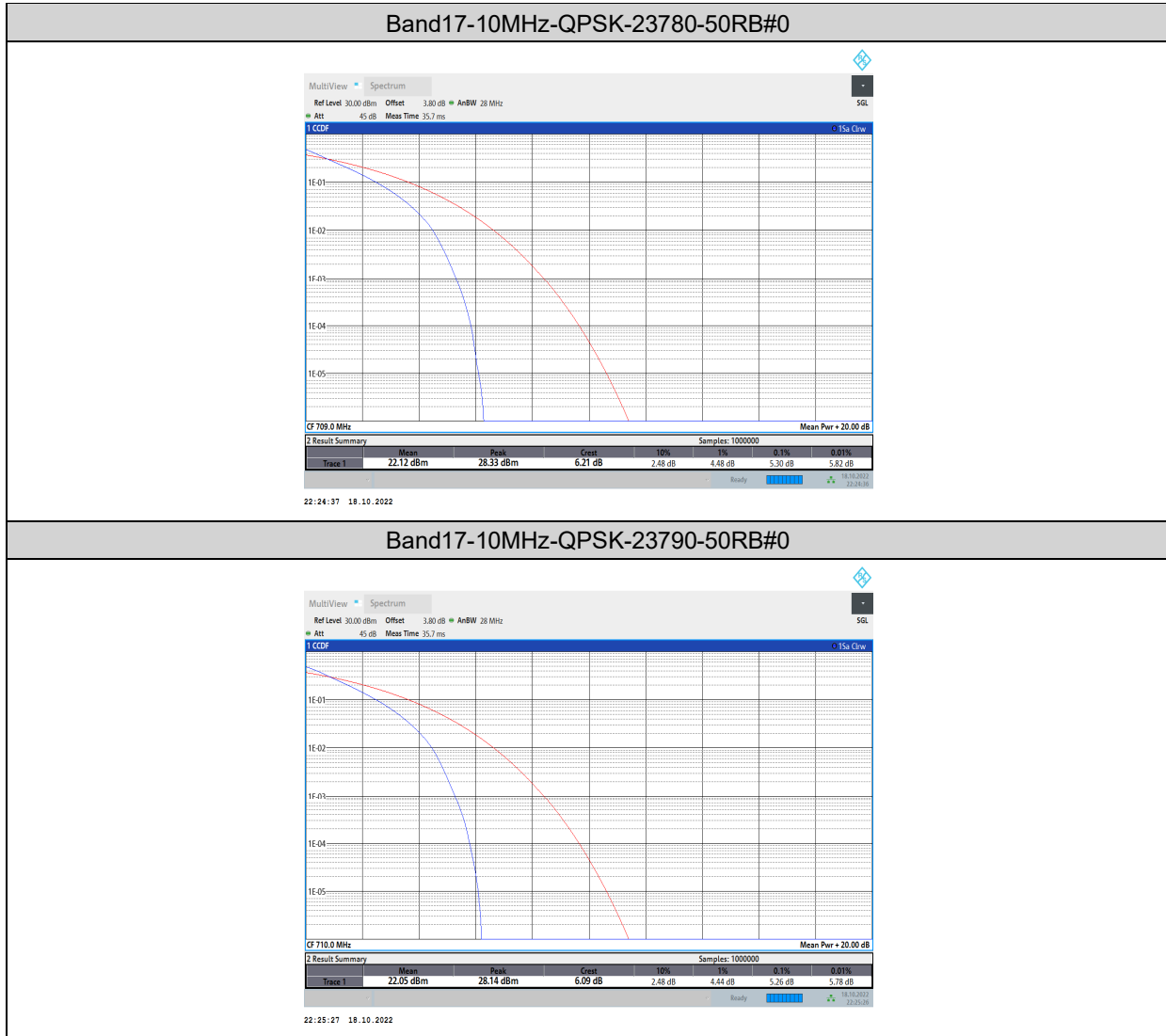


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Test Graphs

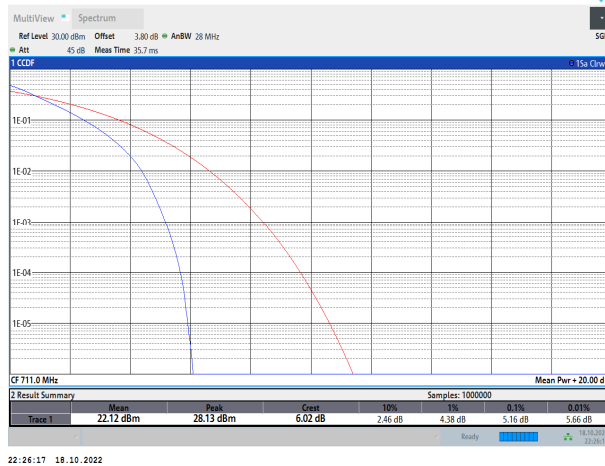


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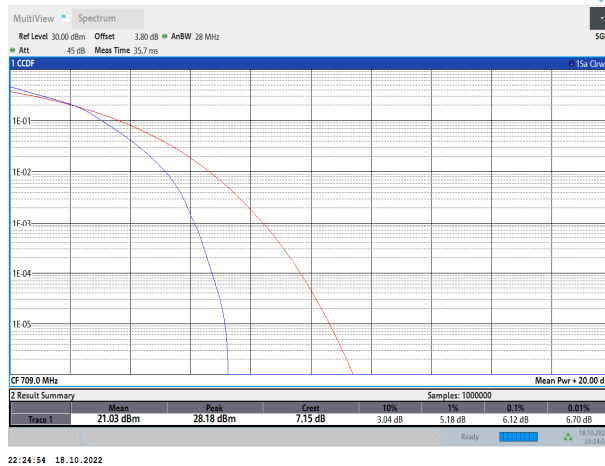
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Band17-10MHz-QPSK-23800-50RB#0



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

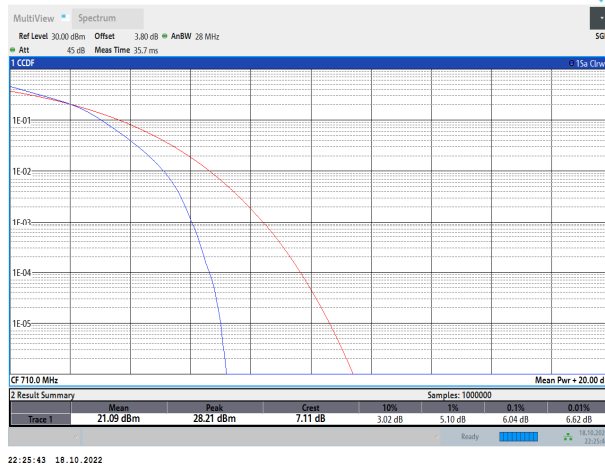


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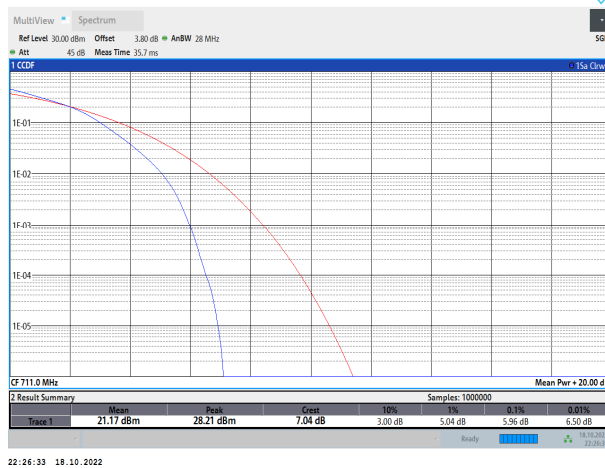
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Band17-10MHz-16QAM-23790-50RB#0



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

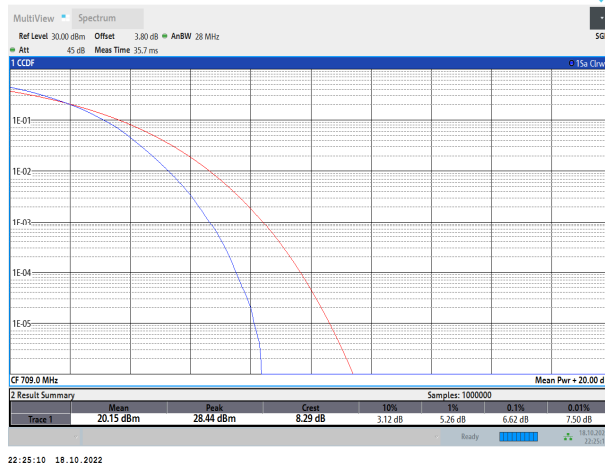


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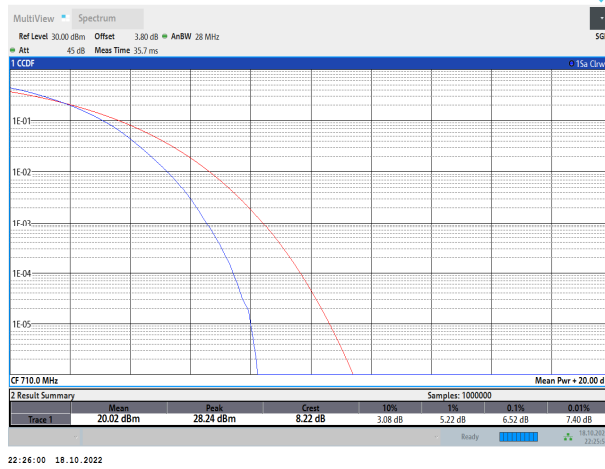
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Band17-10MHz-64QAM-23780-50RB#0



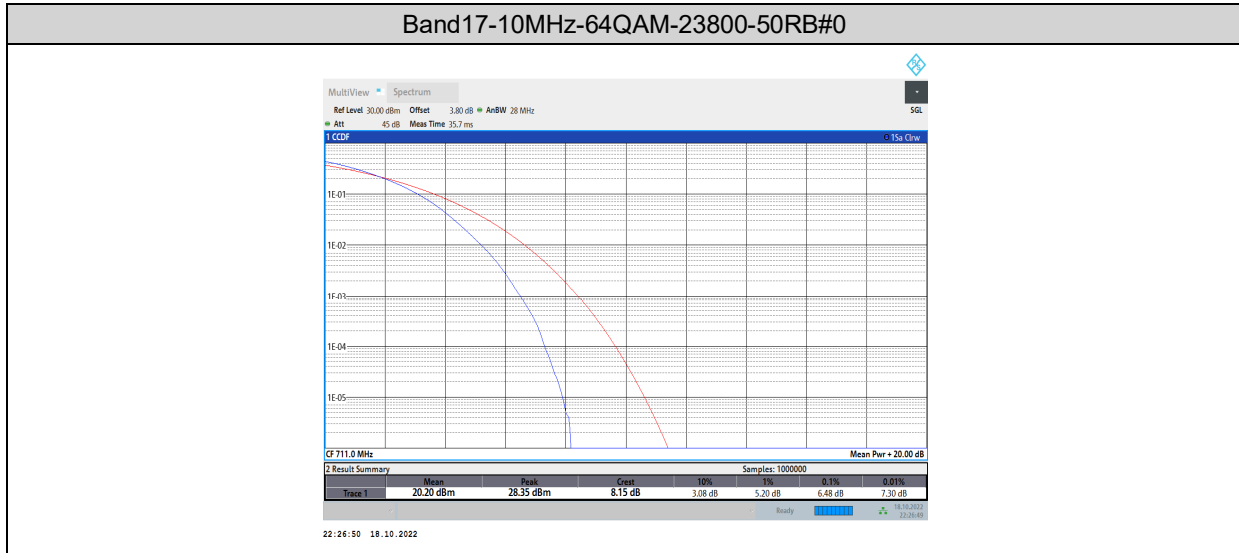
Band17-10MHz-64QAM-23790-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS



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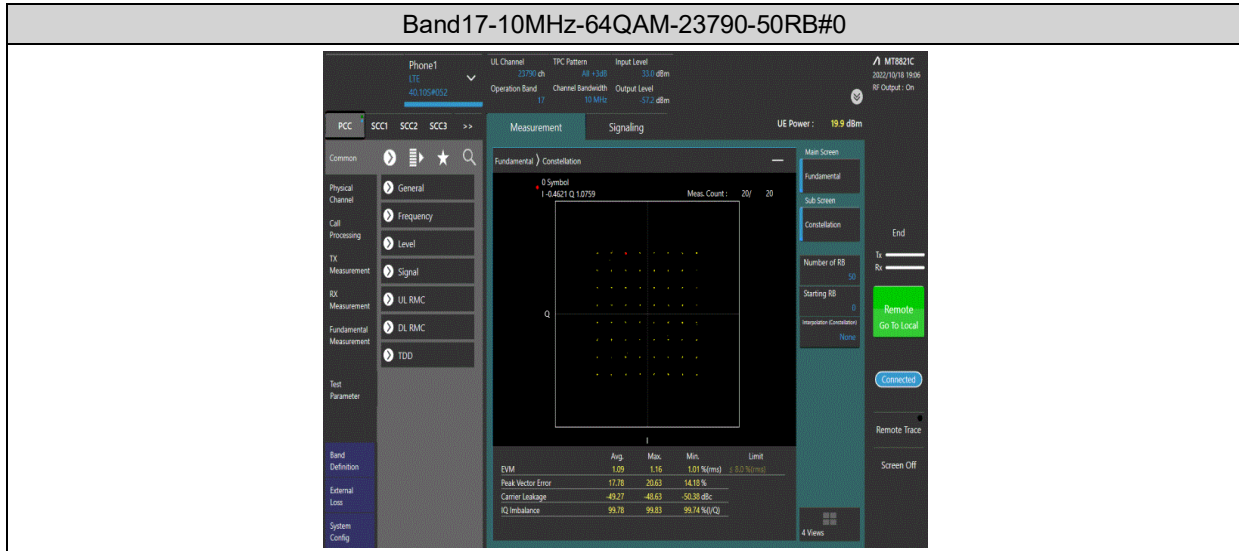
Test Graphs



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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	4.469	4.90	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.465	4.90	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.466	4.93	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.463	4.94	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.467	4.93	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.462	4.95	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.478	4.95	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.482	4.90	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.478	4.93	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.933	9.73	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.934	9.63	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.913	9.70	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.91	9.67	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.902	9.70	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.897	9.60	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.925	9.70	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.921	9.70	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.923	9.67	PASS

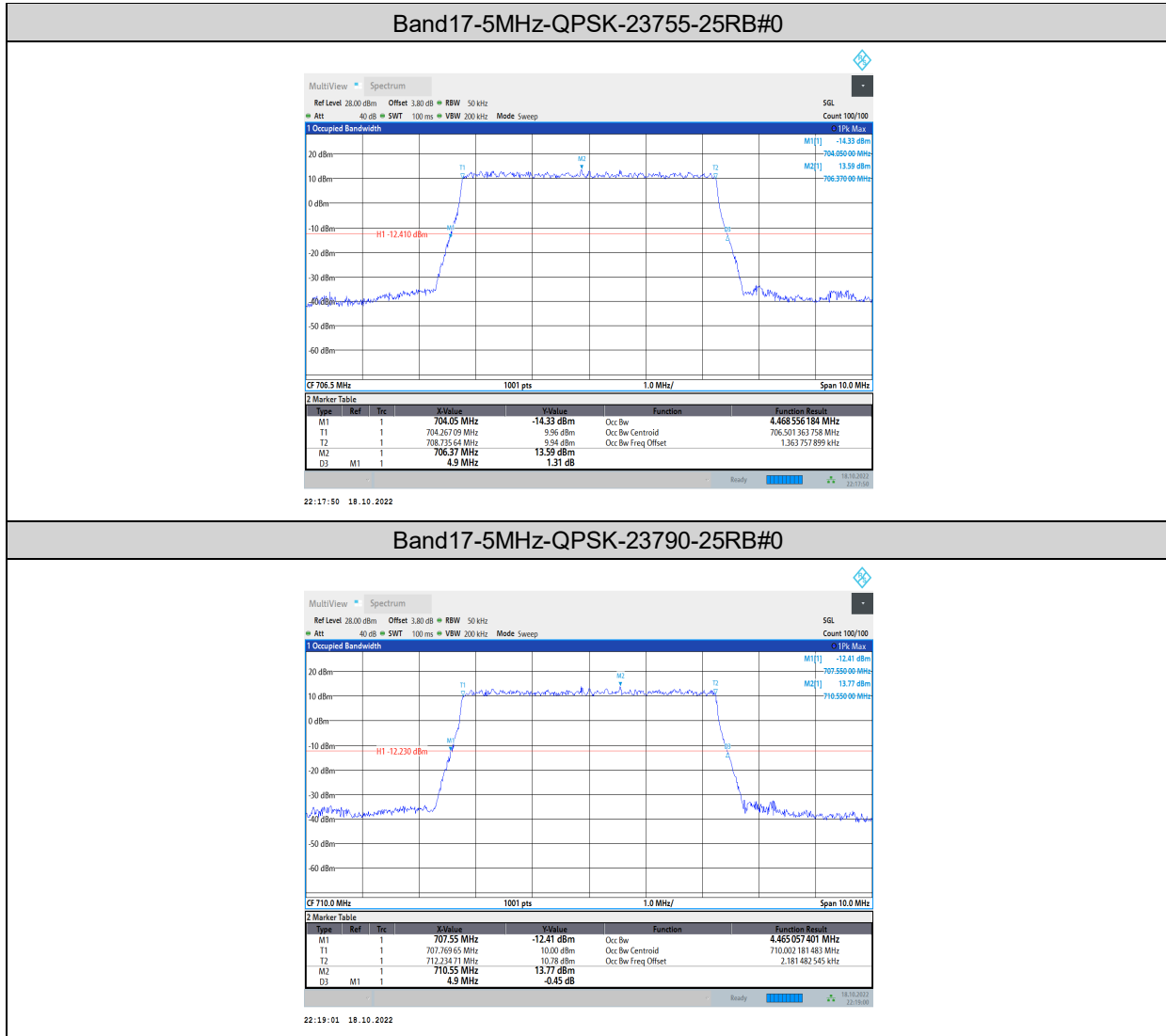


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Test Graphs

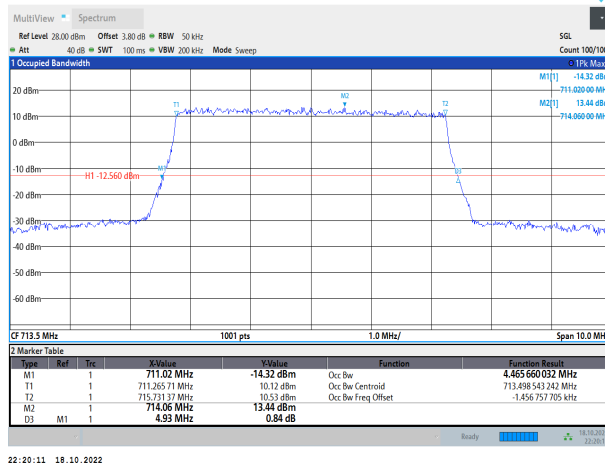


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Band17-5MHz-QPSK-23825-25RB#0



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

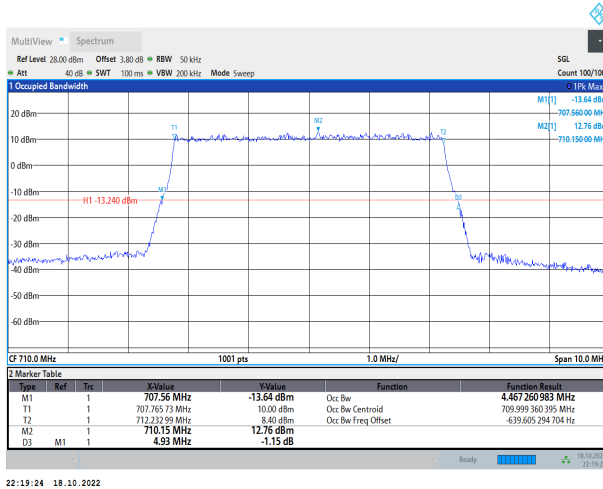


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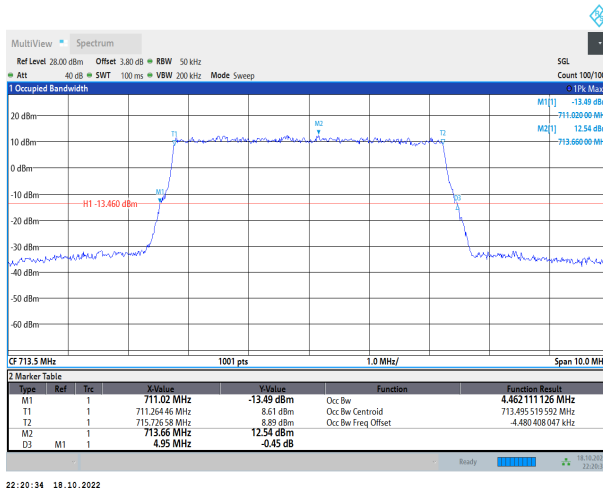
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Band17-5MHz-16QAM-23790-25RB#0



Band17-5MHz-16QAM-23825-25RB#0

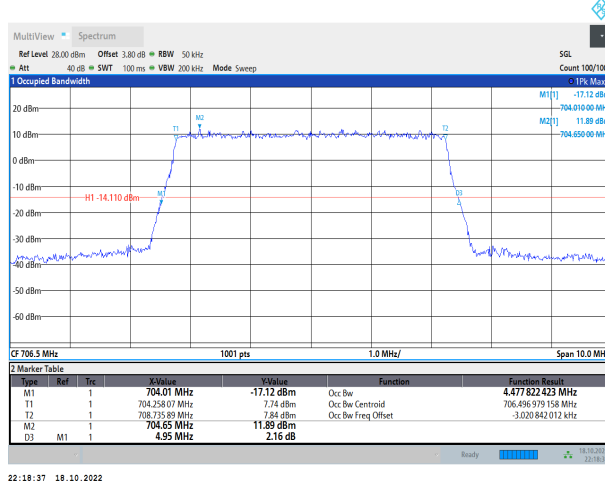


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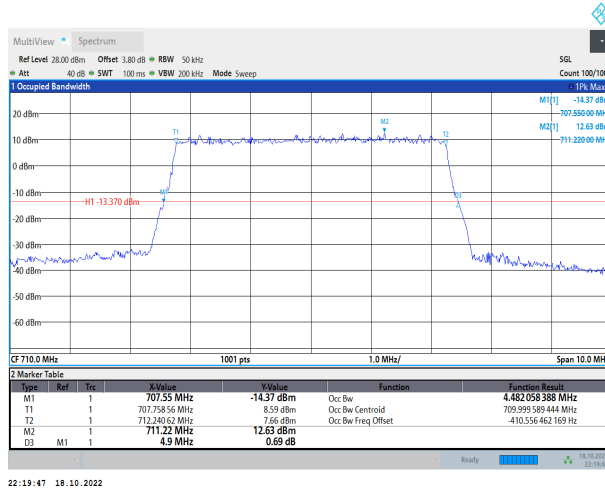
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Band17-5MHz-64QAM-23755-25RB#0



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

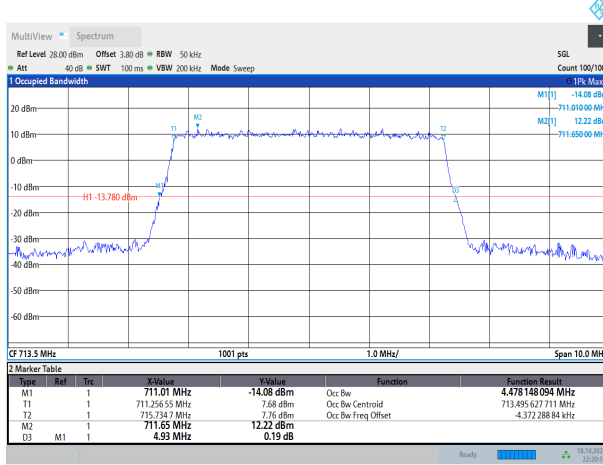


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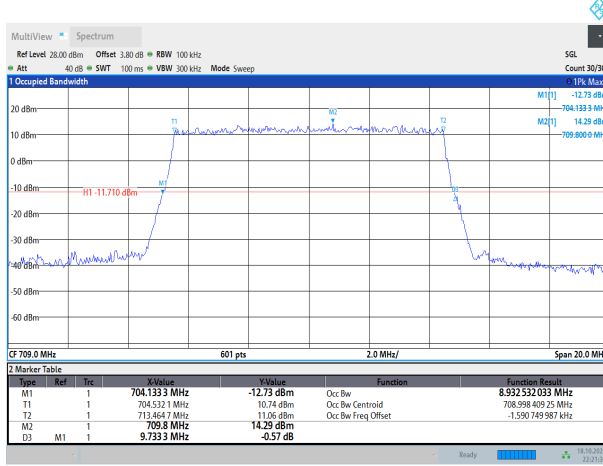
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Band17-5MHz-64QAM-23825-25RB#0



22:20:58 18.10.2022

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



22:21:35 18.10.2022

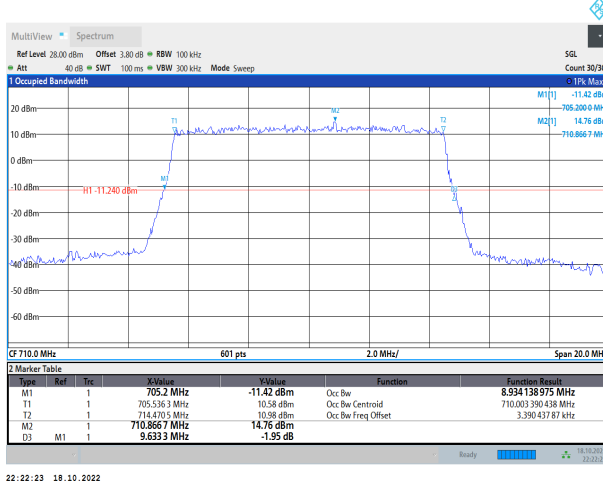


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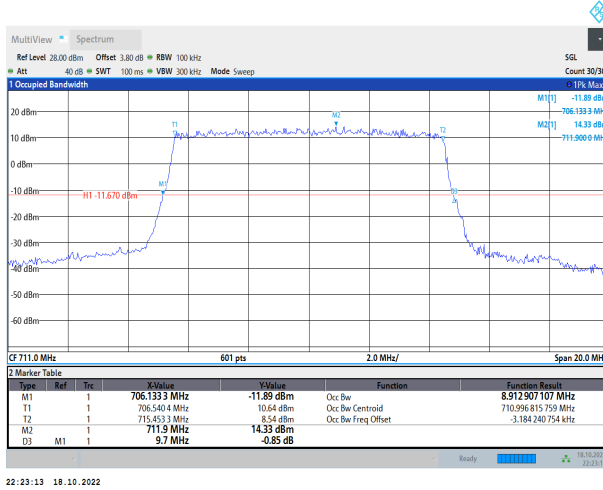
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Band17-10MHz-QPSK-23790-50RB#0



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



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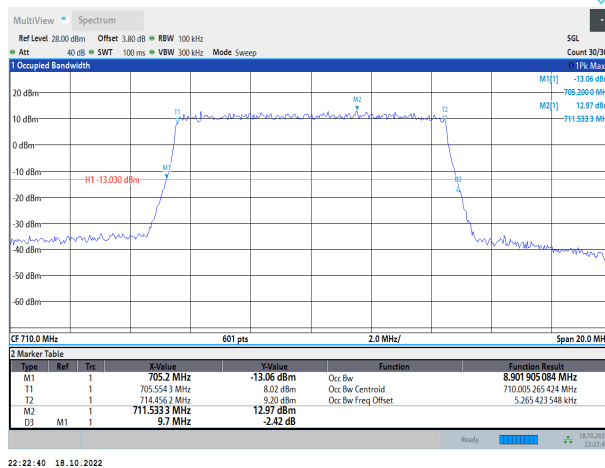
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Band17-10MHz-16QAM-23780-50RB#0



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

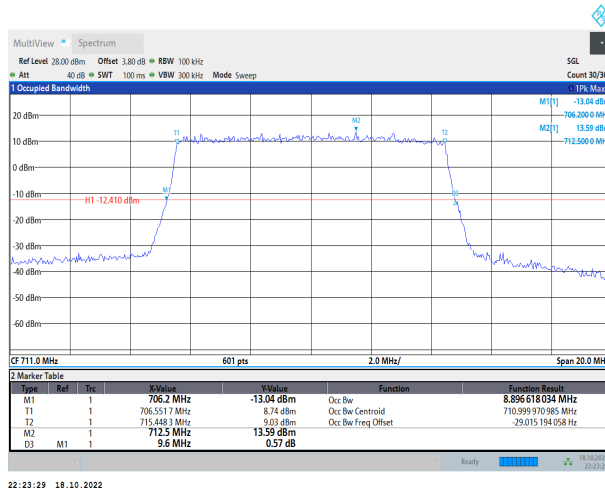


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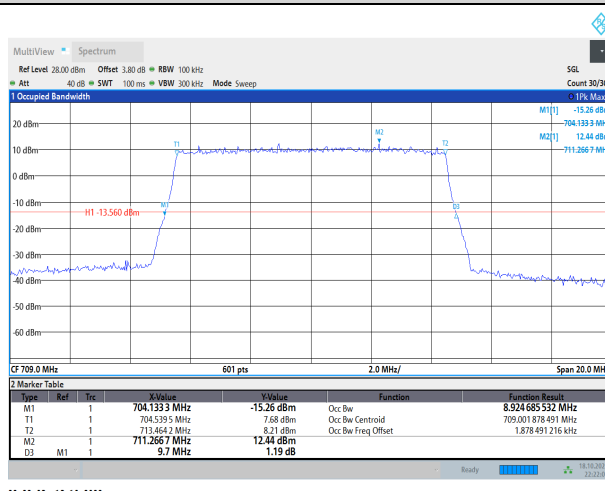
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Band17-10MHz-16QAM-23800-50RB#0



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

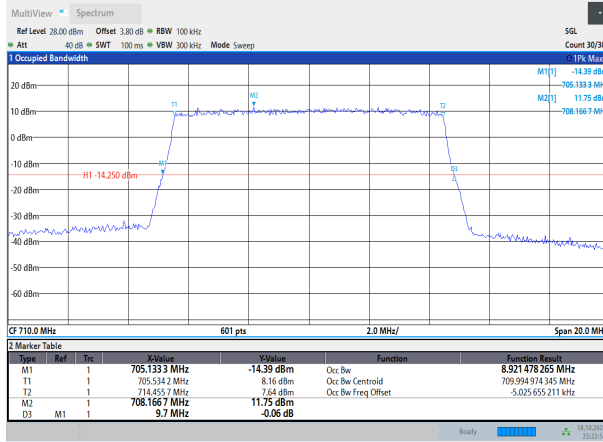


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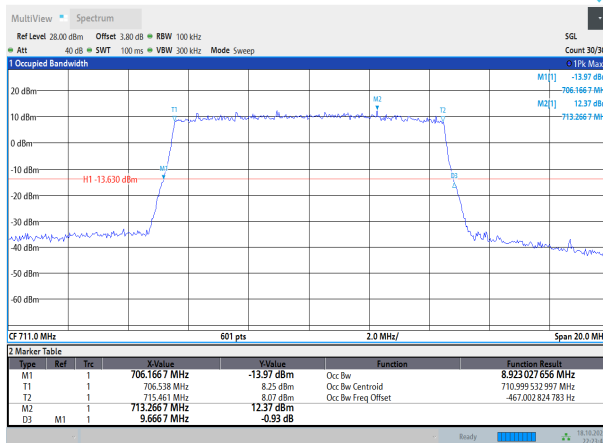
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Band17-10MHz-64QAM-23790-50RB#0



22:22:56 18.10.2022

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



22:23:45 18.10.2022



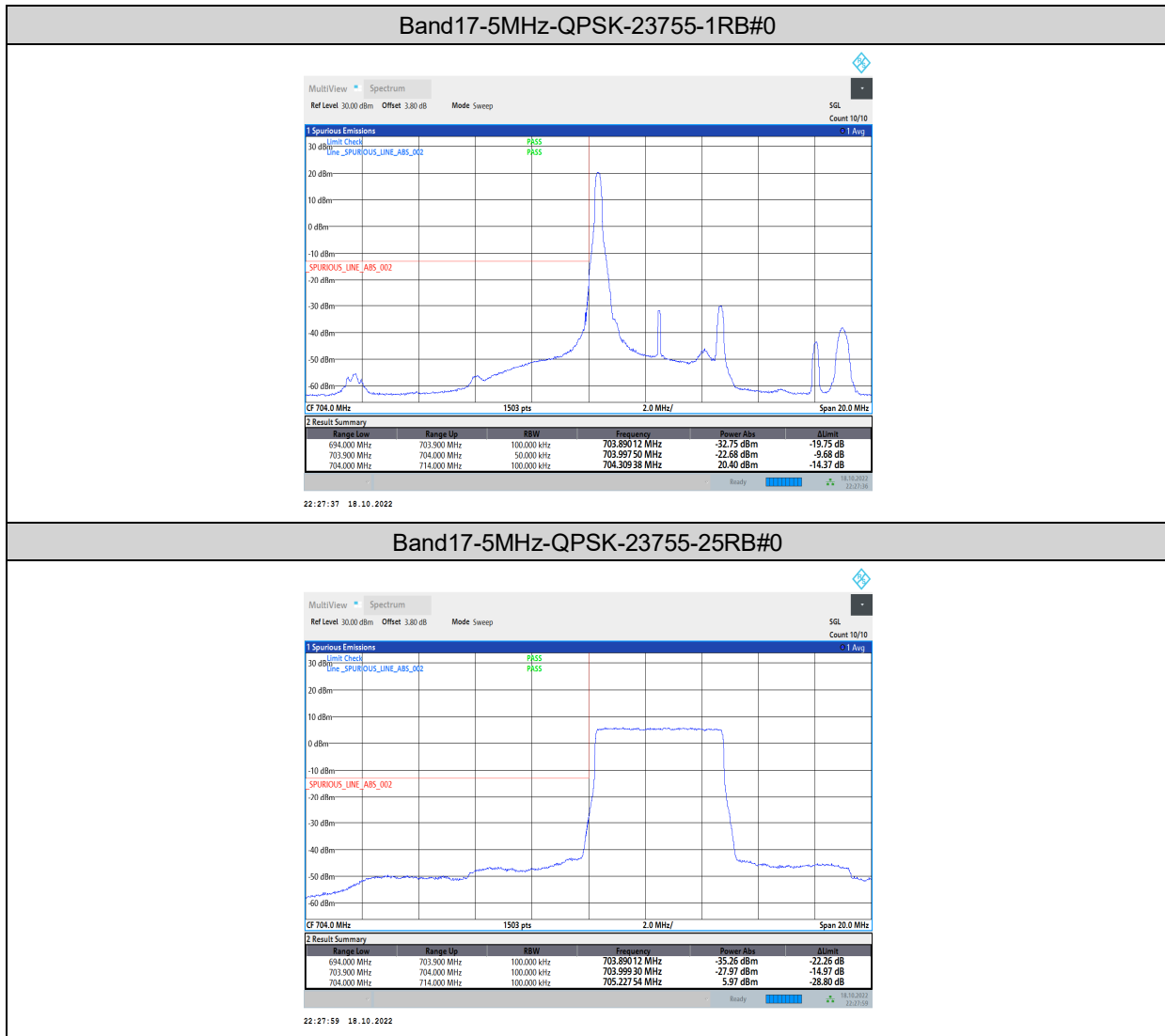
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Band Edge

Test Graphs

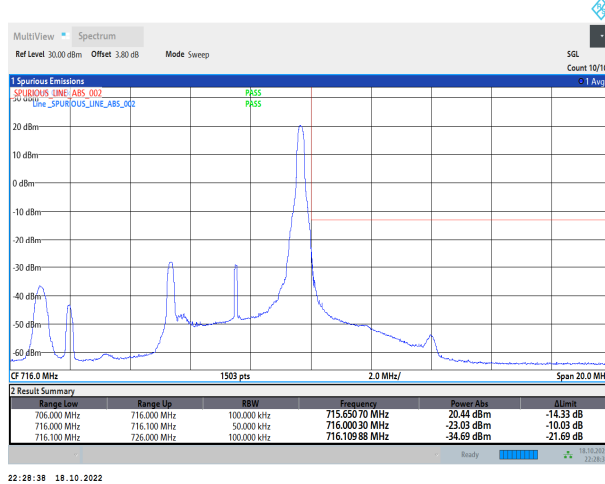


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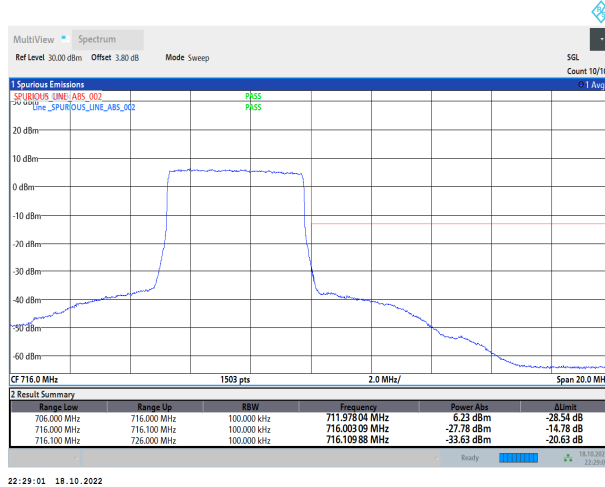
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Band17-5MHz-QPSK-23825-1RB#24



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

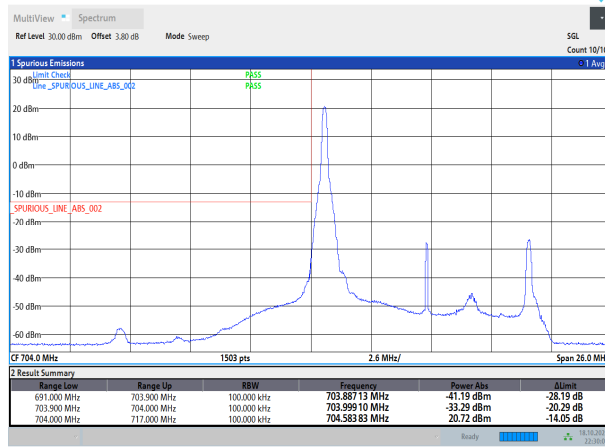


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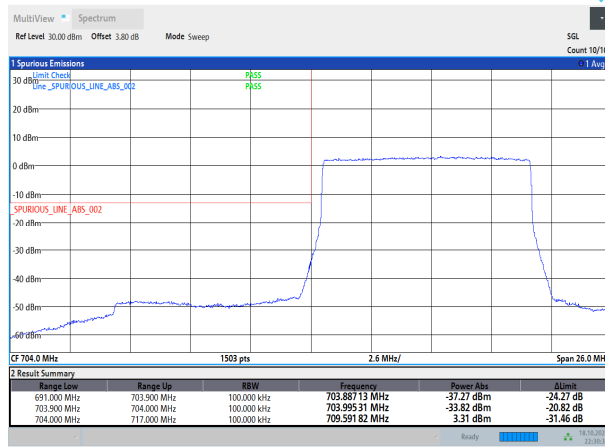
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Band17-10MHz-QPSK-23780-1RB#0



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

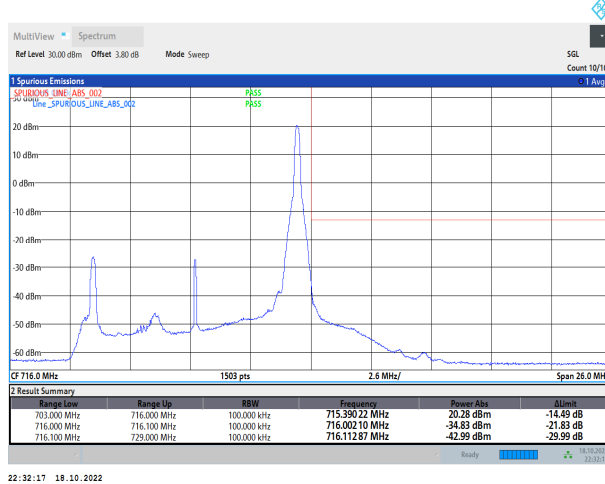


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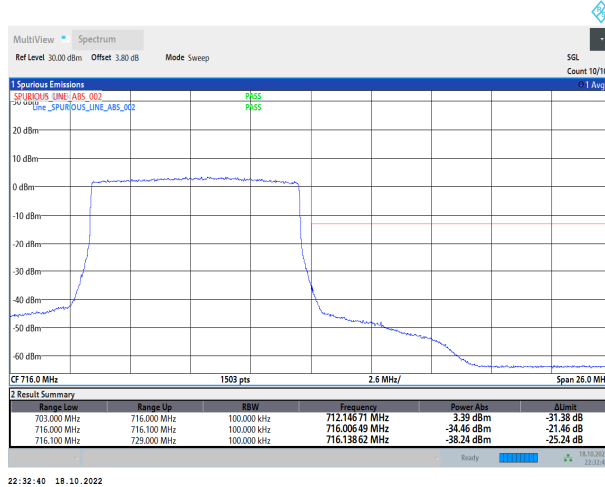
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Band17-10MHz-QPSK-23800-1RB#49



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



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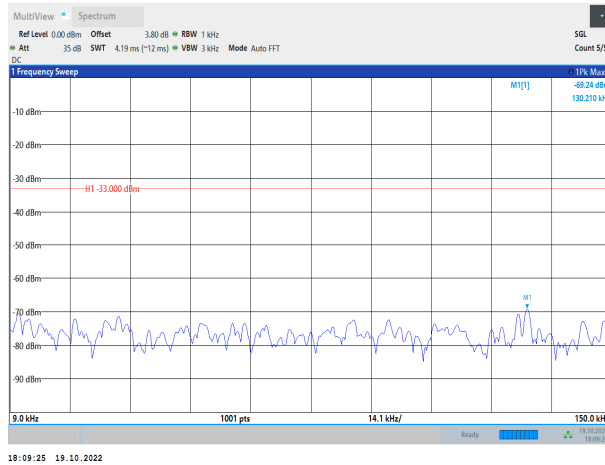
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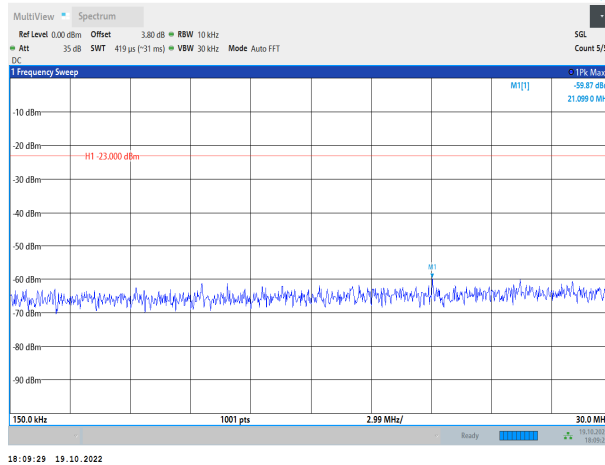
Conducted Spurious Emission

Test Graphs

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



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

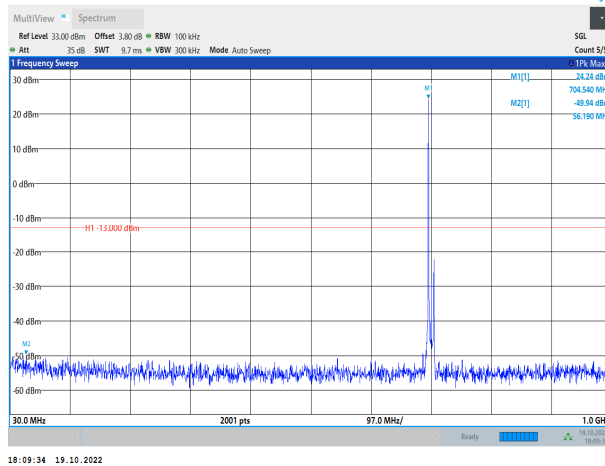


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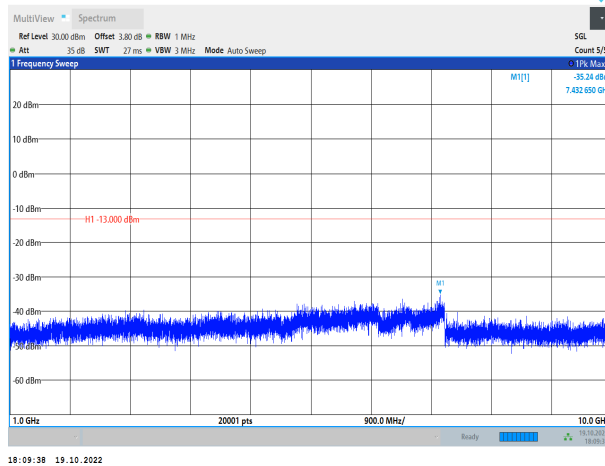
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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

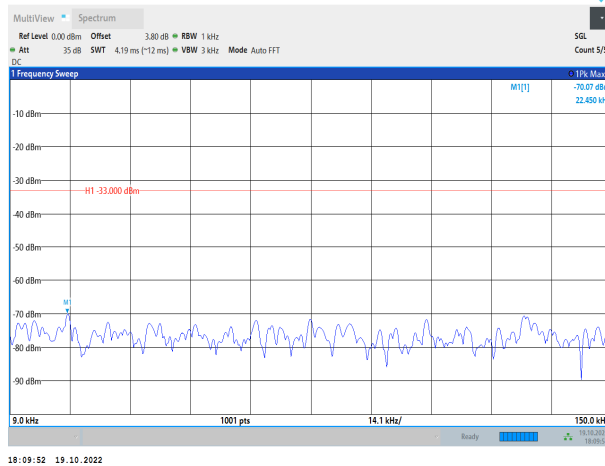


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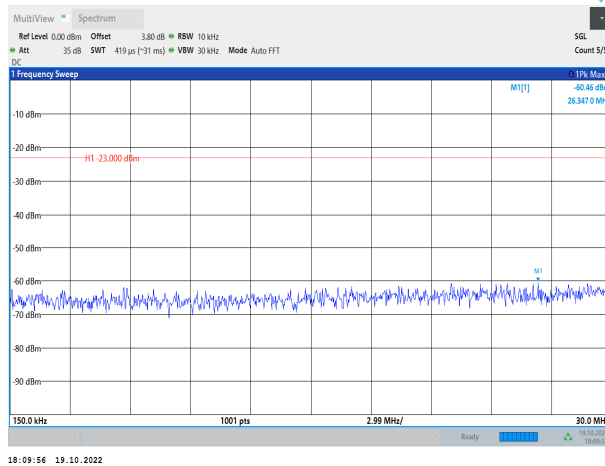
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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

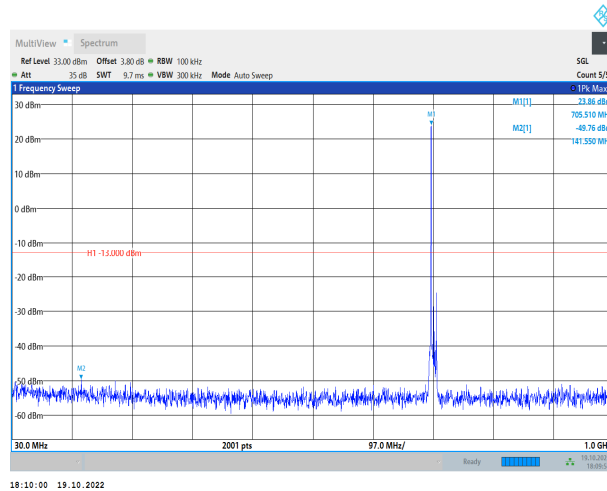


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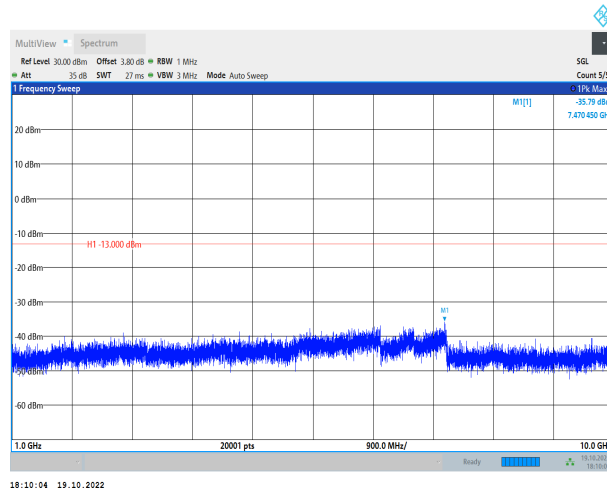
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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

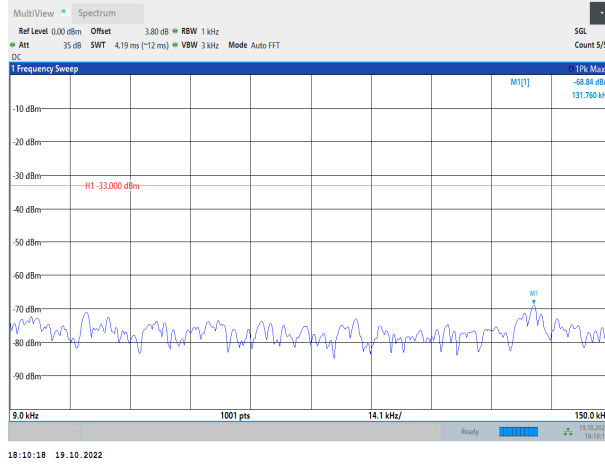


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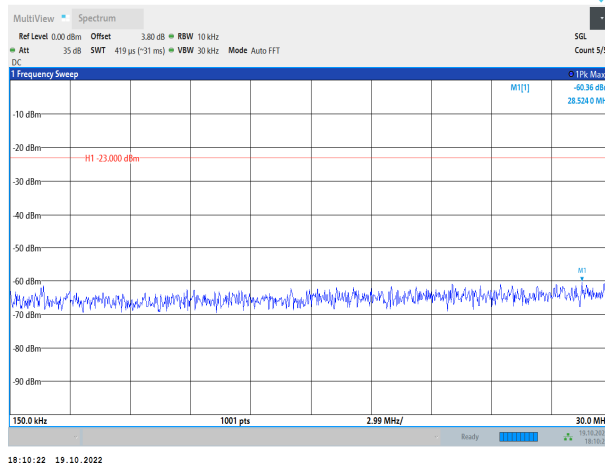
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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

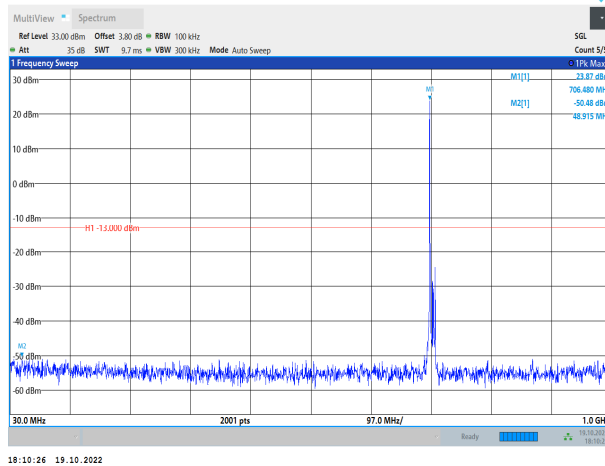


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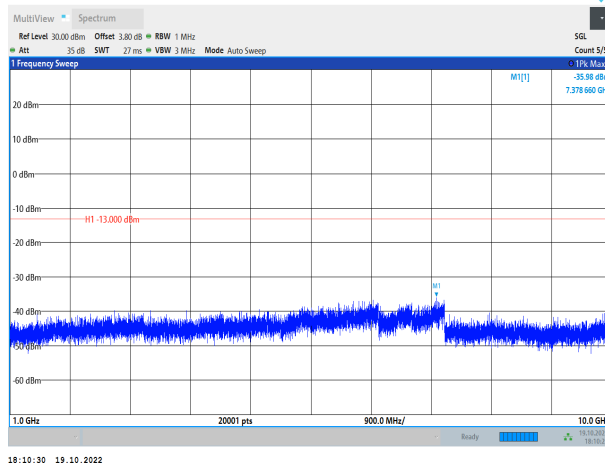
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	53.04	-48.03	25.61	-64.64	-13.00	51.64	187	42	Horizontal
2	2113.7700	51.62	-47.71	27.04	-64.31	-13.00	51.31	159	176	Horizontal
3	2818.3600	52.29	-46.85	28.56	-61.26	-13.00	48.26	145	348	Horizontal
4	3522.9500	50.39	-46.49	29.54	-61.82	-13.00	48.82	165	215	Horizontal
5	4227.5400	48.49	-45.91	31.16	-61.52	-13.00	48.52	129	109	Horizontal
6	4932.1300	48.34	-45.65	32.69	-59.88	-13.00	46.88	138	55	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	50.55	-48.03	25.61	-67.13	-13.00	54.13	228	342	Vertical
2	2113.7700	50.07	-47.71	27.04	-65.86	-13.00	52.86	174	360	Vertical
3	2818.3600	50.17	-46.85	28.56	-63.38	-13.00	50.38	159	302	Vertical
4	3522.9500	49.90	-46.49	29.54	-62.31	-13.00	49.31	165	317	Vertical
5	4227.5400	48.86	-45.91	31.16	-61.15	-13.00	48.15	142	251	Vertical
6	4932.1300	48.78	-45.65	32.69	-59.44	-13.00	46.44	183	210	Vertical



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Test Band = LTE Band17_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	54.17	-48.04	25.60	-63.52	-13.00	50.52	244	267	Horizontal
2	2116.7700	53.03	-47.70	27.05	-62.88	-13.00	49.88	175	16	Horizontal
3	2822.3600	51.32	-46.84	28.58	-62.20	-13.00	49.20	145	0	Horizontal
4	3527.9500	50.65	-46.48	29.55	-61.55	-13.00	48.55	169	174	Horizontal
5	4233.5400	49.32	-45.90	31.17	-60.67	-13.00	47.67	192	267	Horizontal
6	4939.1300	48.75	-45.67	32.71	-59.47	-13.00	46.47	138	320	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	51.49	-48.04	25.60	-66.20	-13.00	53.20	222	350	Vertical
2	2116.7700	50.13	-47.70	27.05	-65.78	-13.00	52.78	142	65	Vertical
3	2822.3600	50.40	-46.84	28.58	-63.12	-13.00	50.12	133	264	Vertical
4	3527.9500	49.75	-46.48	29.55	-62.45	-13.00	49.45	263	264	Vertical
5	4233.5400	49.29	-45.90	31.17	-60.70	-13.00	47.70	206	130	Vertical
6	4939.1300	48.38	-45.67	32.71	-59.84	-13.00	46.84	187	224	Vertical



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Test Band = LTE Band17_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	53.61	-48.04	25.60	-64.09	-13.00	51.09	145	29	Horizontal
2	2119.7700	51.18	-47.70	27.06	-64.72	-13.00	51.72	162	17	Horizontal
3	2826.3600	51.42	-46.83	28.60	-62.07	-13.00	49.07	152	356	Horizontal
4	3532.9500	49.31	-46.47	29.55	-62.87	-13.00	49.87	177	0	Horizontal
5	4239.5400	49.18	-45.89	31.18	-60.79	-13.00	47.79	148	68	Horizontal
6	4946.1300	48.08	-45.69	32.73	-60.14	-13.00	47.14	193	201	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	51.81	-48.04	25.60	-65.89	-13.00	52.89	142	4	Vertical
2	2119.7700	50.36	-47.70	27.06	-65.54	-13.00	52.54	152	237	Vertical
3	2826.3600	51.31	-46.83	28.60	-62.18	-13.00	49.18	136	222	Vertical
4	3532.9500	49.43	-46.47	29.55	-62.75	-13.00	49.75	266	222	Vertical
5	4239.5400	49.03	-45.89	31.18	-60.94	-13.00	47.94	145	289	Vertical
6	4946.1300	50.17	-45.69	32.73	-58.05	-13.00	45.05	190	289	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-1.10	-0.001549	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-0.80	-0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-0.20	-0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-0.80	-0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.50	-0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.30	-0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-1.10	-0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-2.00	-0.002817	PASS

---End of Attachment---



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