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Appendix B.5

LTE Band 12



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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
Band12	1.4MHz	QPSK	23017	1RB#0	23.01	24.12	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.14	24.25	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.9	24.01	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.05	23.16	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.95	24.06	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.19	24.3	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.21	24.32	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.06	23.17	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.87	23.98	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.91	24.02	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.57	23.68	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.75	22.86	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.08	23.19	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.07	23.18	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.93	23.04	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.94	22.05	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.96	23.07	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.61	23.72	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.18	23.29	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.99	22.1	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.01	23.12	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	21.74	22.85	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.64	22.75	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.65	21.76	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.93	24.04	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.7	23.81	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.91	24.02	34.77	PASS

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Band12	3MHz	QPSK	23025	15RB#0	22.03	23.14	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.2	24.31	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.27	24.38	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.64	23.75	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.99	23.1	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.31	24.42	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.73	23.84	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.99	24.1	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.09	23.2	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.46	23.57	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.83	22.94	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.93	23.04	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.81	21.92	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.59	23.7	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.64	23.75	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.79	22.9	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.04	22.15	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.12	23.23	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.96	23.07	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.76	22.87	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21	22.11	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.04	24.15	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.06	24.17	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.93	24.04	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.08	23.19	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.82	23.93	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.49	24.6	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.89	24	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.14	23.25	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.25	24.36	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.11	24.22	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.88	23.99	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.99	23.1	34.77	PASS

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Band12	5MHz	16QAM	23035	1RB#0	22.07	23.18	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.87	22.98	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.83	22.94	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.13	22.24	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.84	22.95	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	21.92	23.03	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.74	22.85	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21	22.11	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.15	23.26	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.53	23.64	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.6	22.71	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	21.24	22.35	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.1	24.21	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.98	24.09	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.11	24.22	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.15	23.26	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.79	23.9	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.04	24.15	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.01	24.12	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.99	23.1	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.08	24.19	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.28	24.39	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.69	23.8	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.08	23.19	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.03	23.14	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	21.95	23.06	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.12	23.23	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.15	22.26	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.53	22.64	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.04	23.15	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.77	22.88	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.95	22.06	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.02	23.13	34.77	PASS

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Band12	10MHz	16QAM	23130	1RB#24	22.07	23.18	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.61	22.72	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.04	22.15	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
Band12	10MHz	QPSK	23060	50RB#0	5.38	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	5.30	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	5.22	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	6.12	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	6.10	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	5.96	13	PASS

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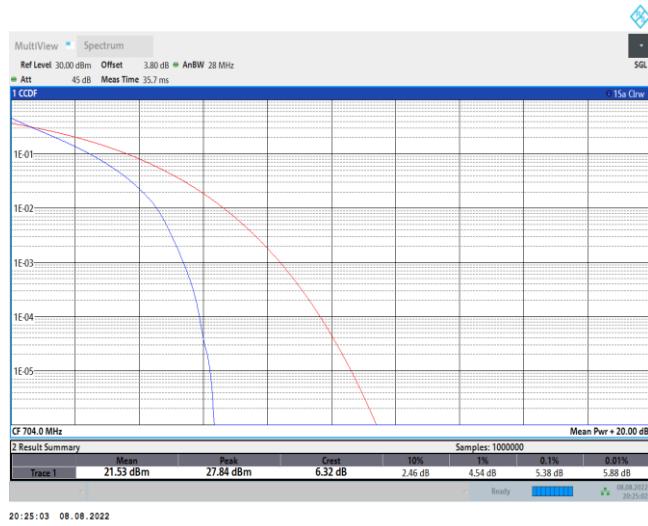
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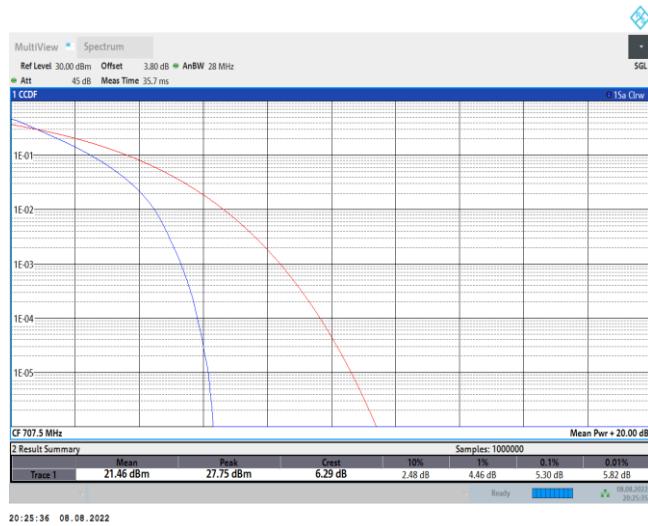
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Test Graphs

Band12-10MHz-QPSK-23060-50RB#0



Band12-10MHz-QPSK-23095-50RB#0



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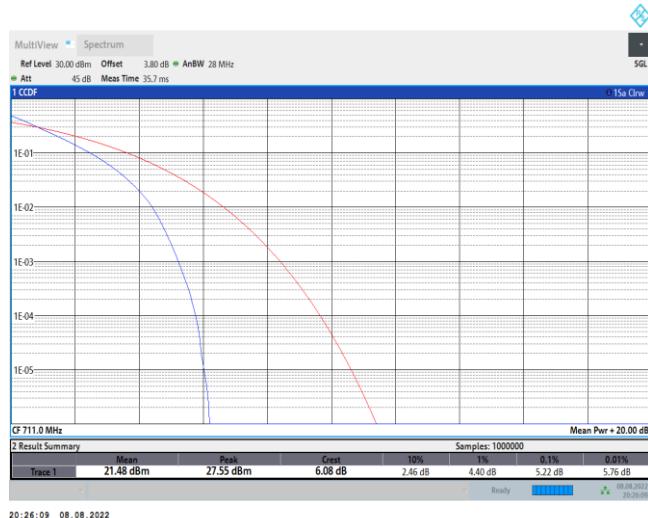
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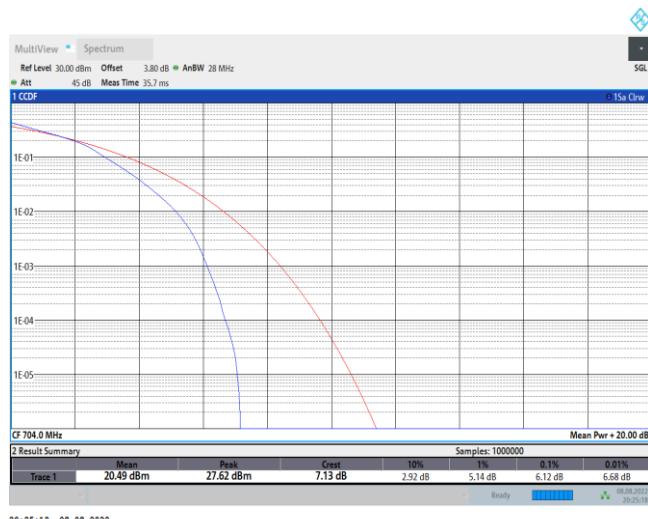
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Band12-10MHz-QPSK-23130-50RB#0



Band12-10MHz-16QAM-23060-50RB#0



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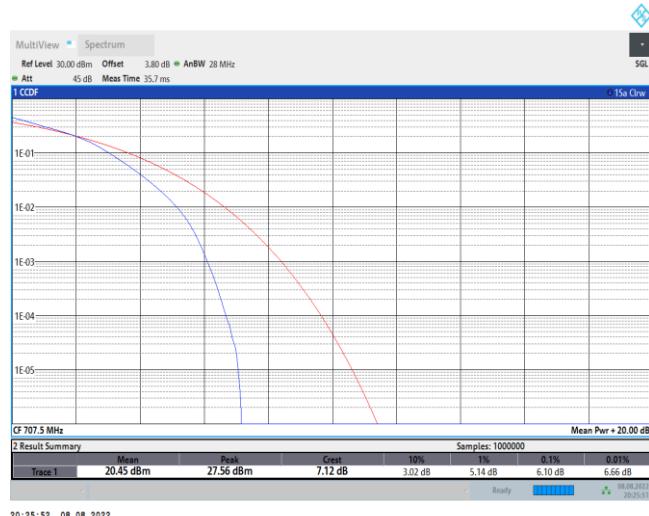
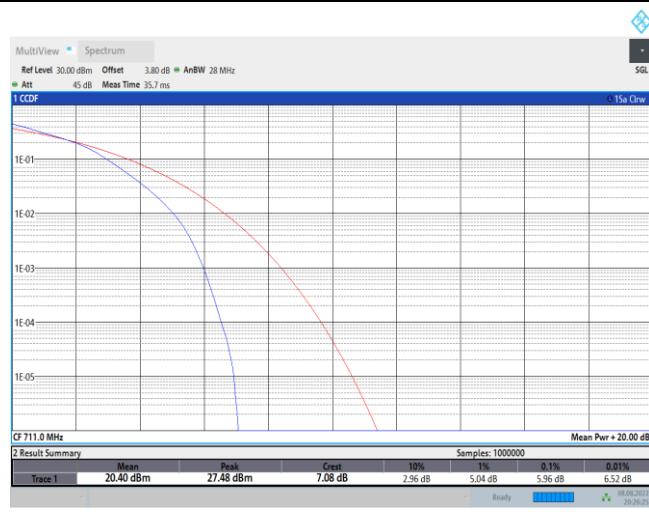


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Band12-10MHz-16QAM-23095-50RB#0**Band12-10MHz-16QAM-23130-50RB#0**

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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band12	10MHz	QPSK	23095	50RB#0	PASS	PASS
Band12	10MHz	16QAM	23095	50RB#0	PASS	PASS



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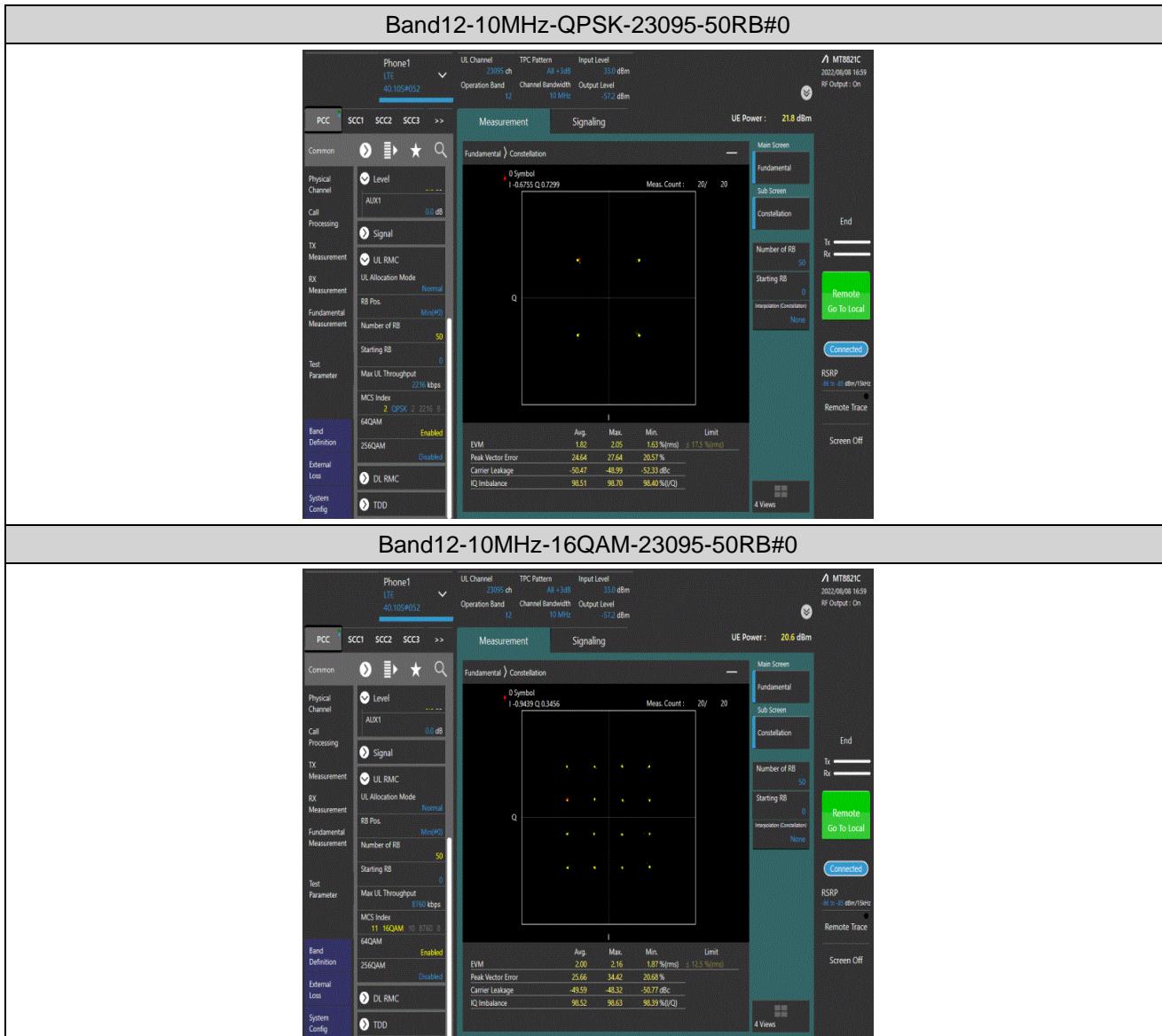
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band12	1.4MHz	QPSK	23017	6RB#0	1.086	1.28	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.27	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.087	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.096	1.30	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.097	1.30	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.696	2.95	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.69	2.95	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.696	2.97	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.684	2.97	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.686	2.98	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.687	2.98	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.463	4.89	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.464	4.88	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.468	4.88	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.457	4.94	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.93	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.462	4.95	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.932	9.68	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.927	9.70	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.915	9.68	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.912	9.72	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.896	9.66	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.887	9.64	PASS

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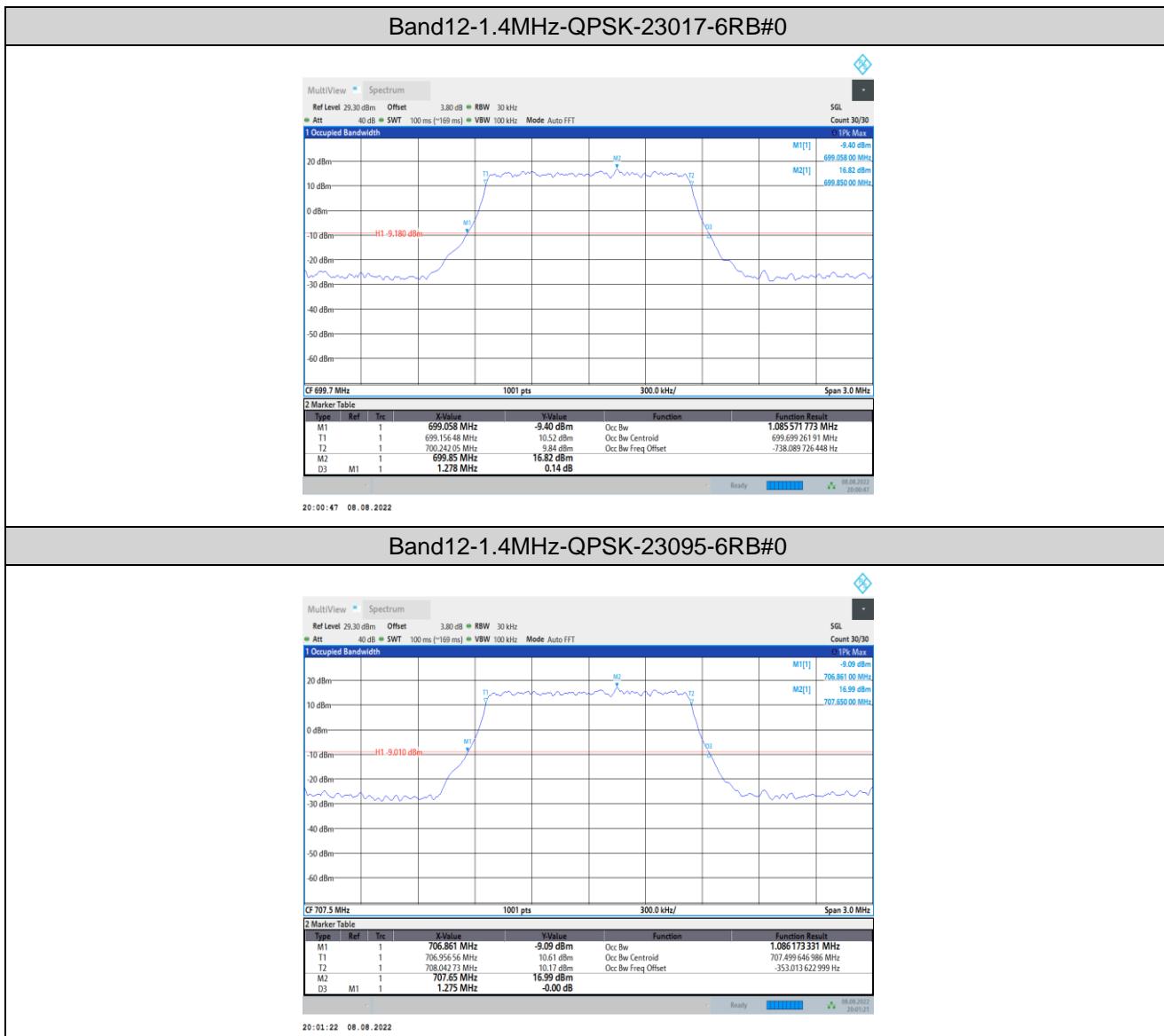
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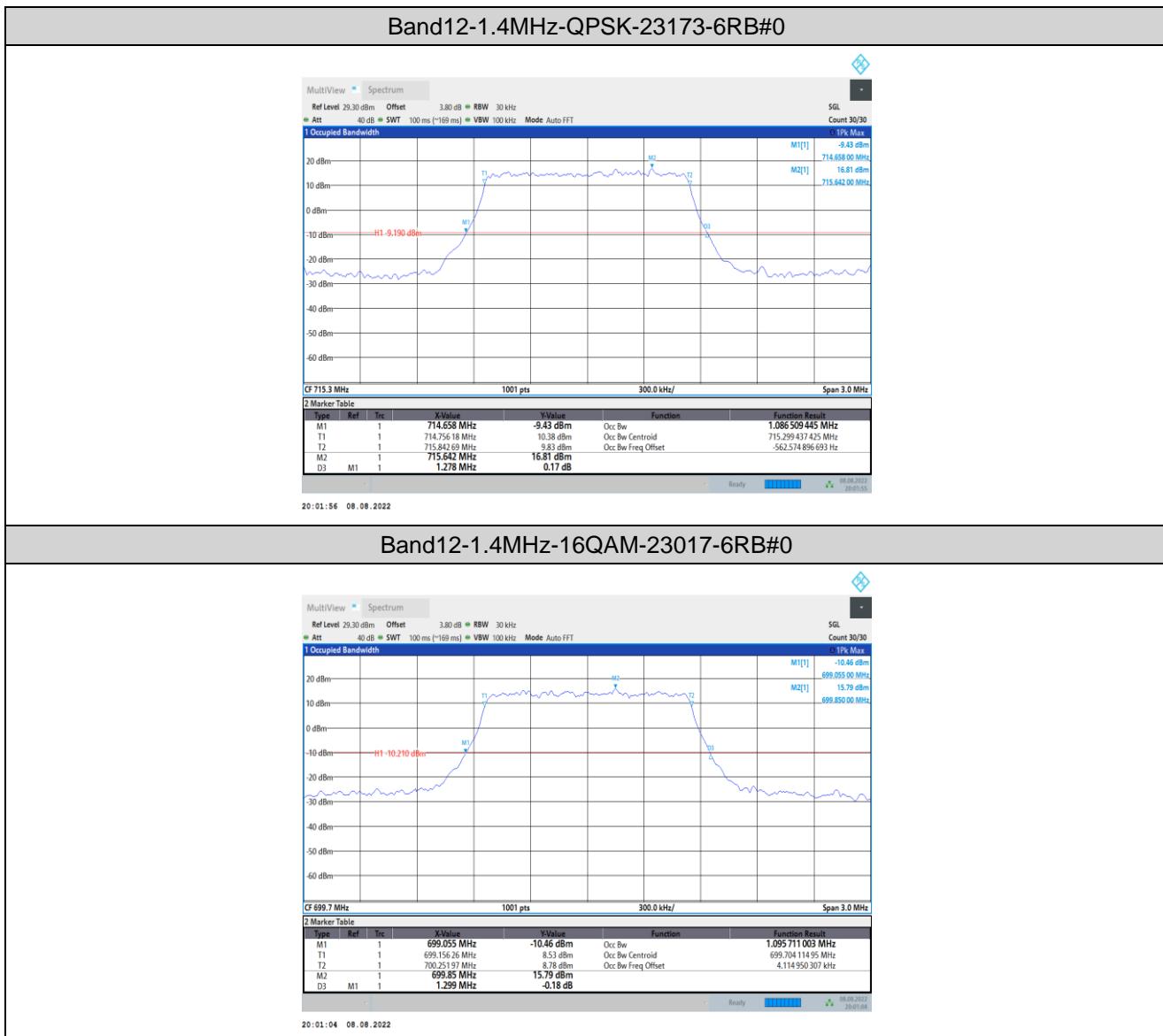


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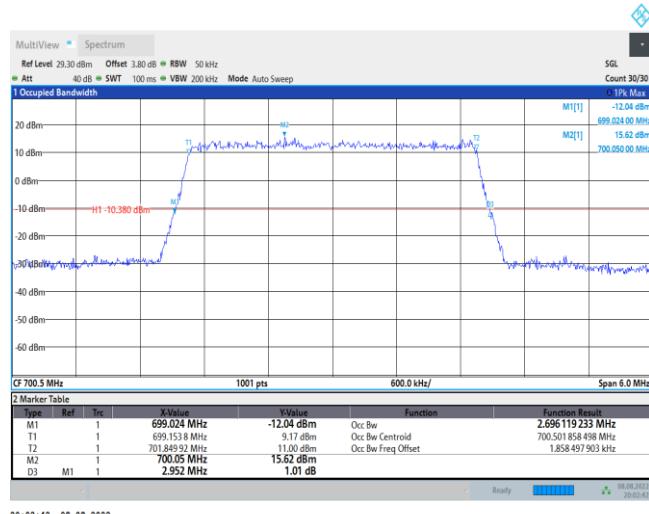
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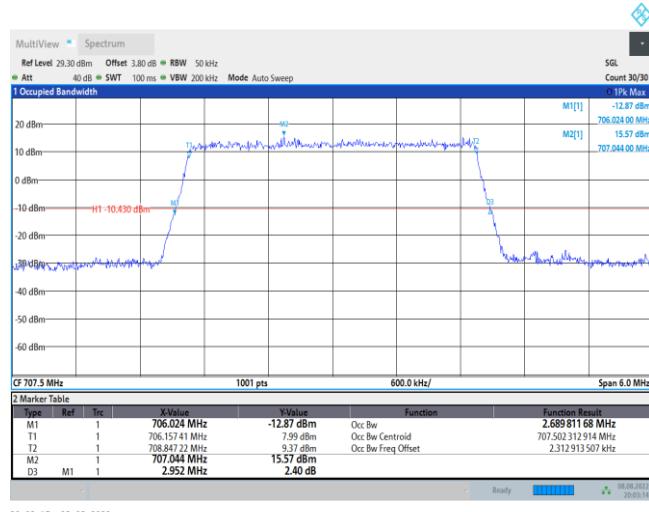
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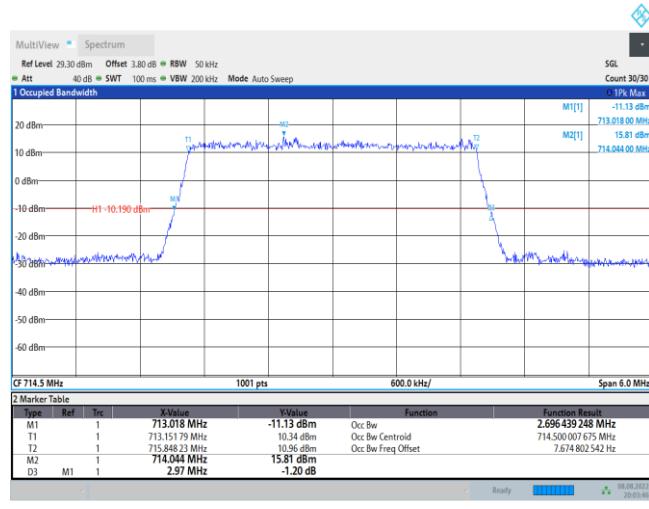
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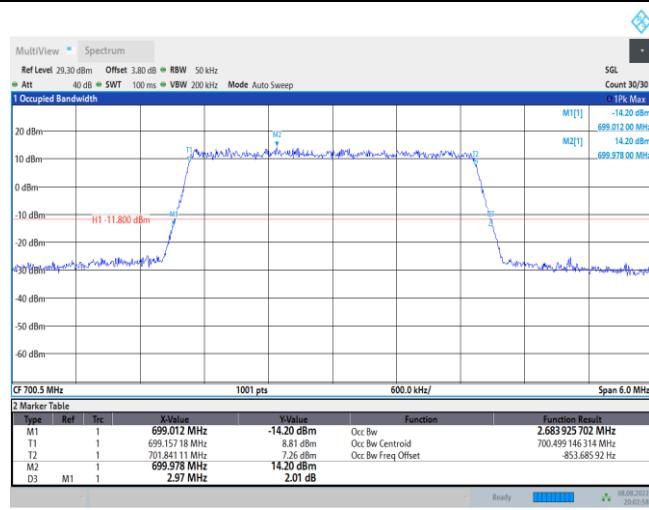
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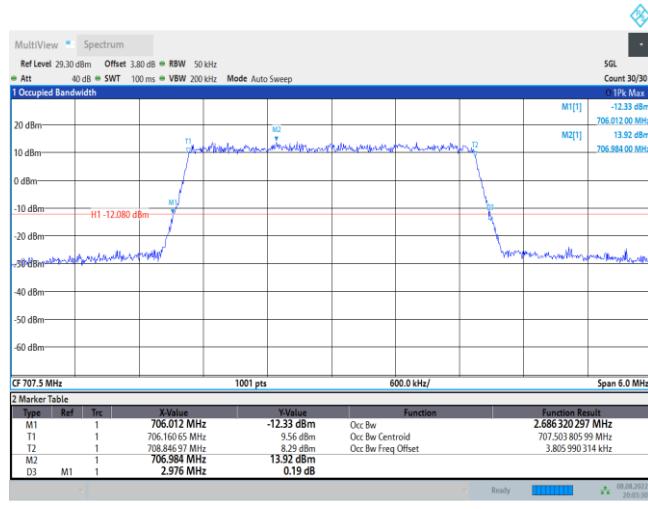
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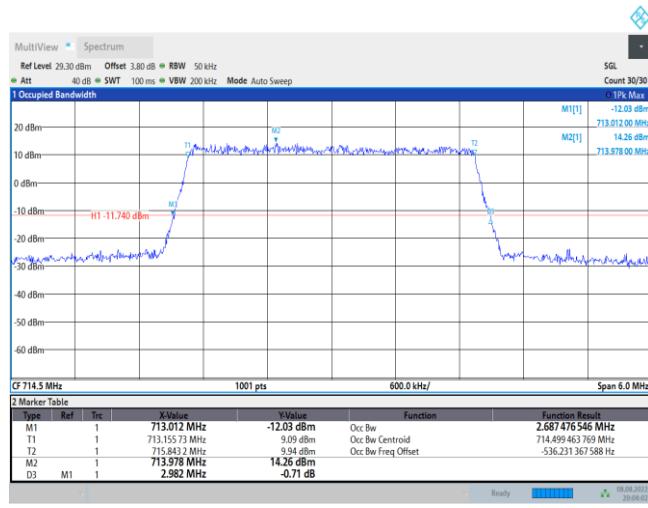
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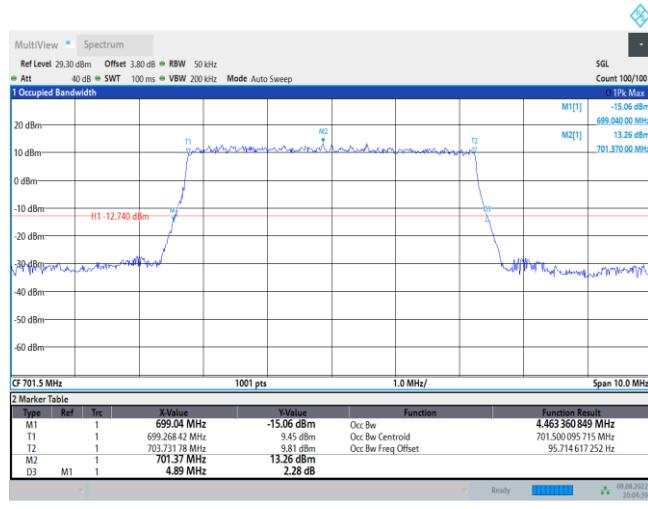
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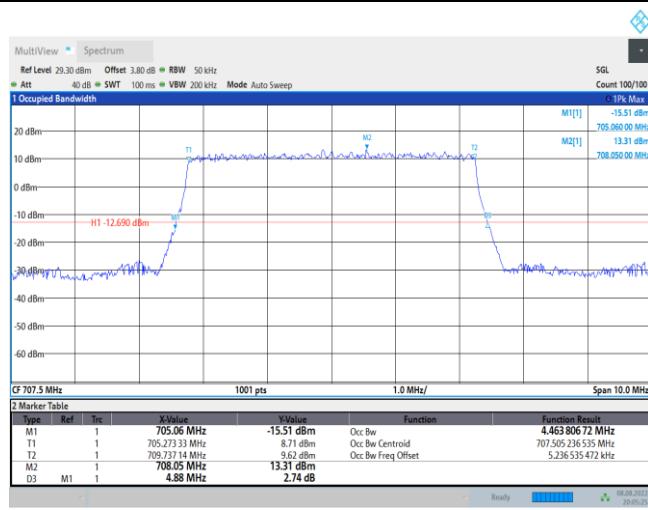


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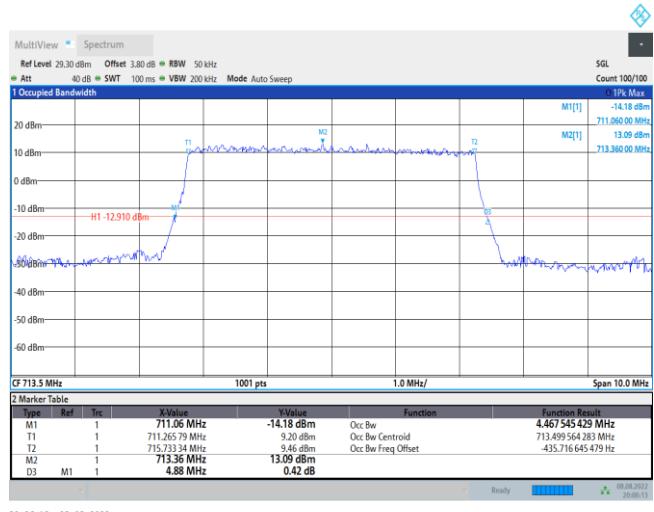
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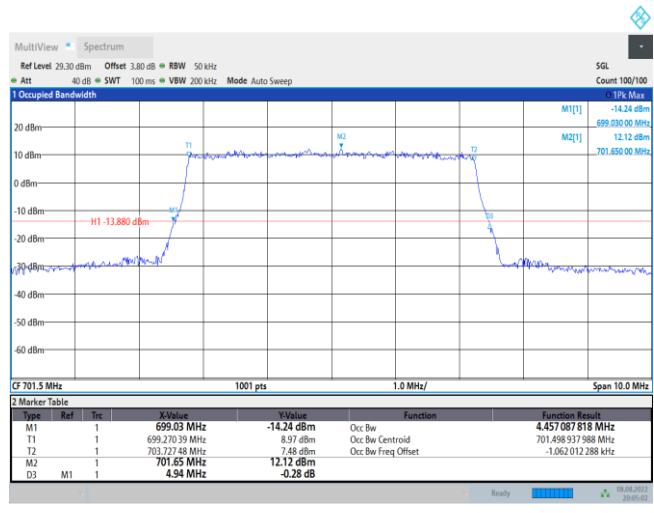
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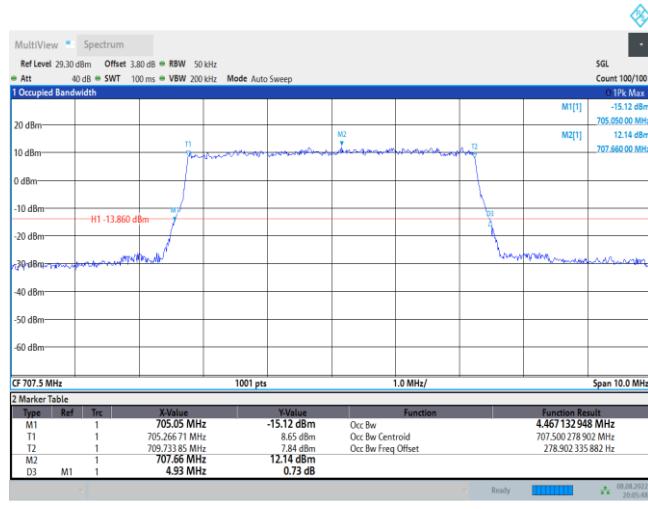
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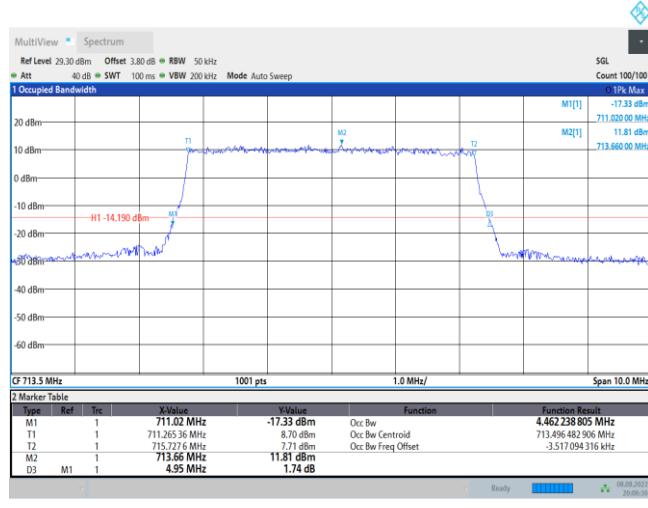
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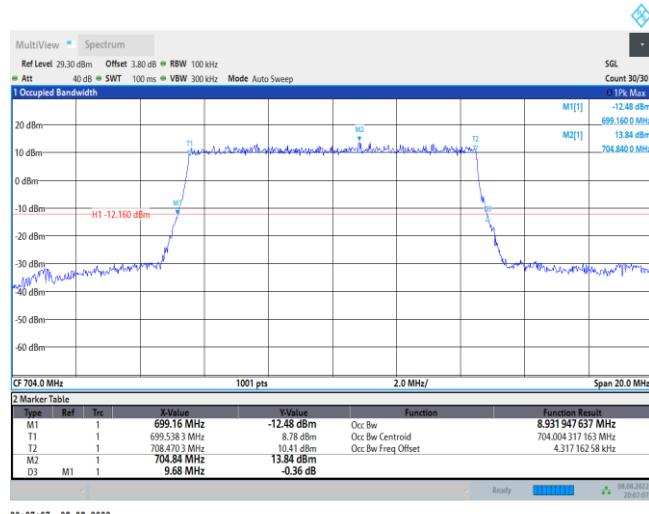
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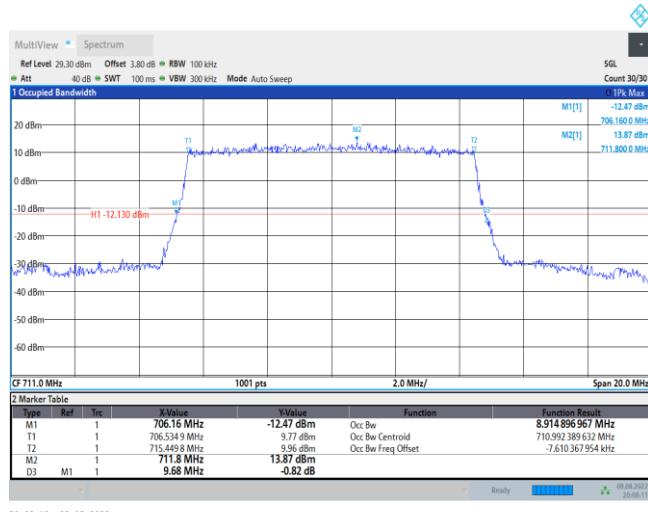
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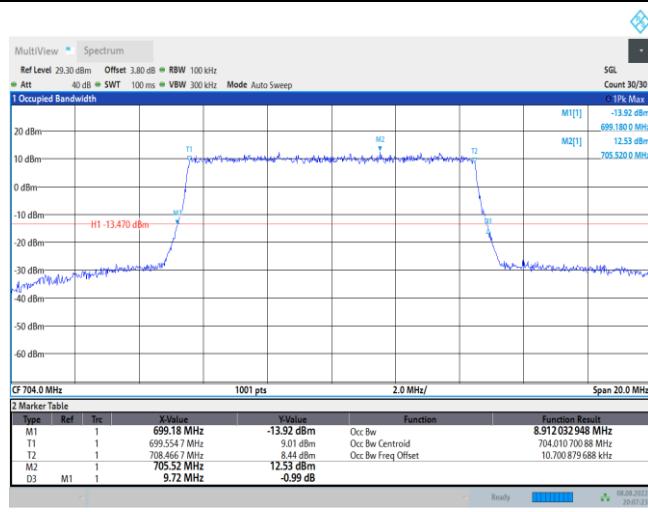
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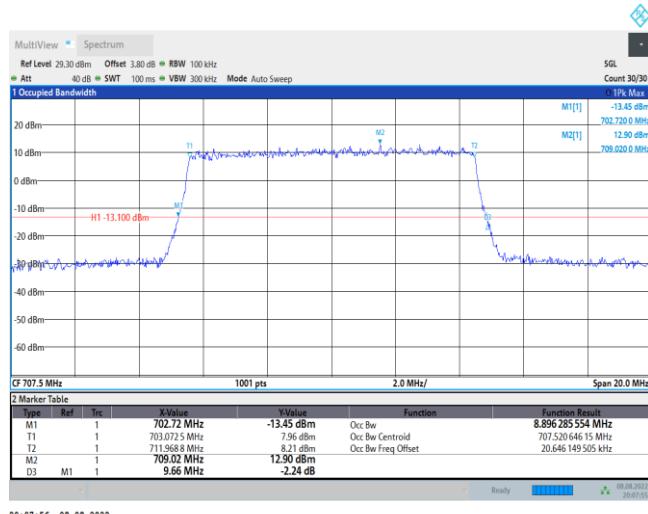
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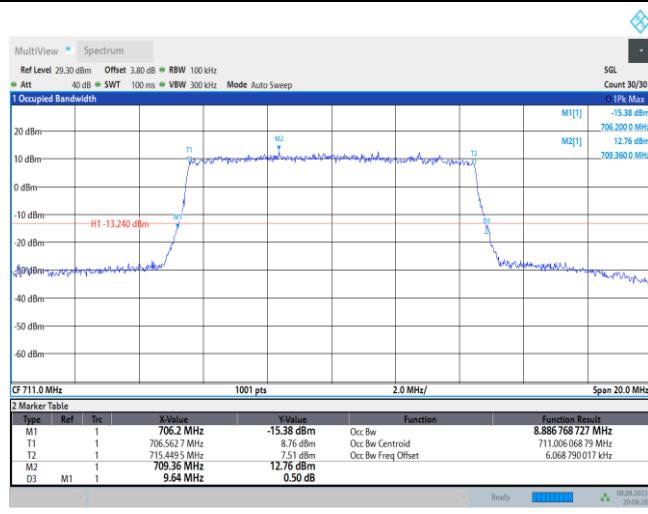
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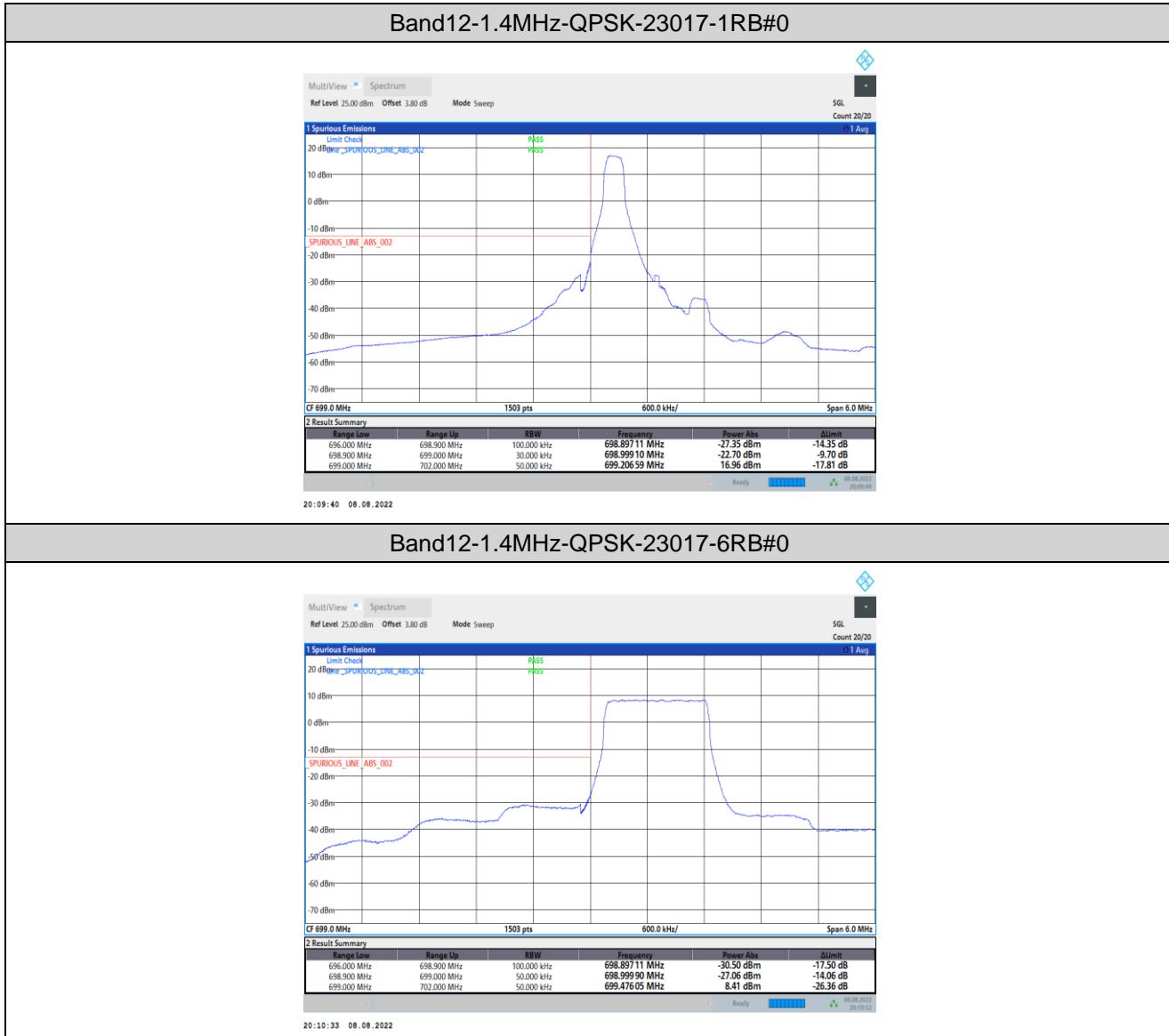
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Band Edge

Test Graphs



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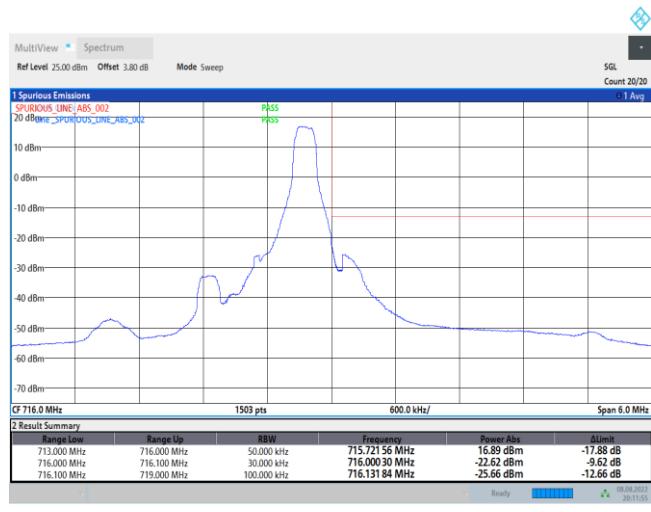
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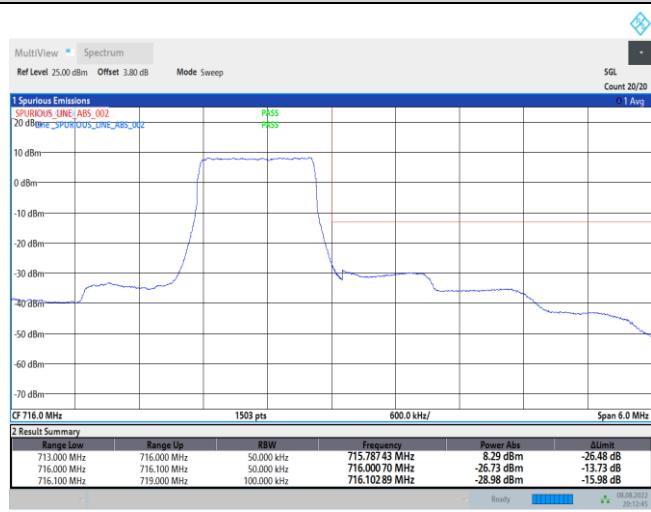
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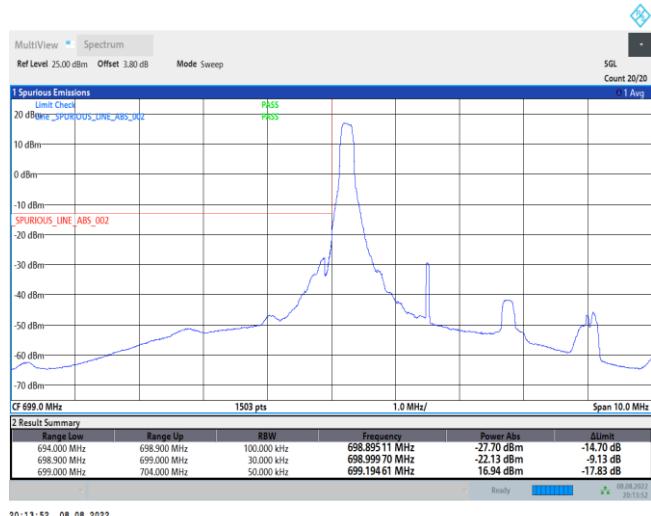
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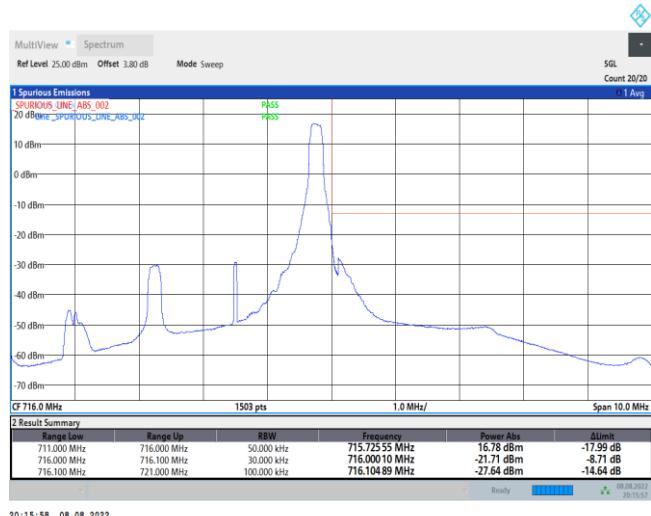
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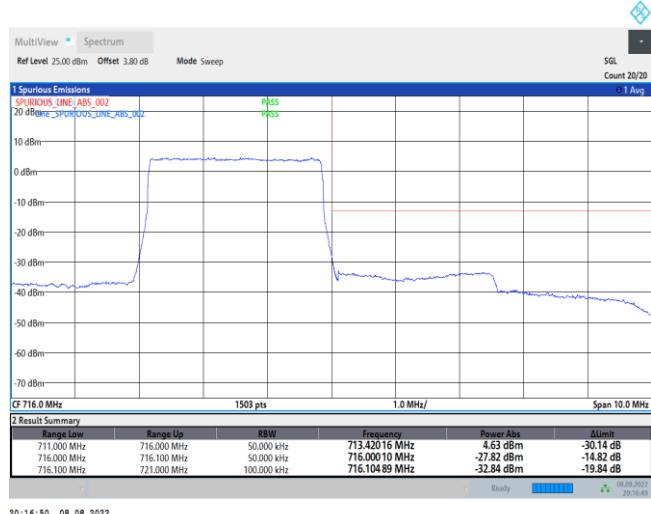
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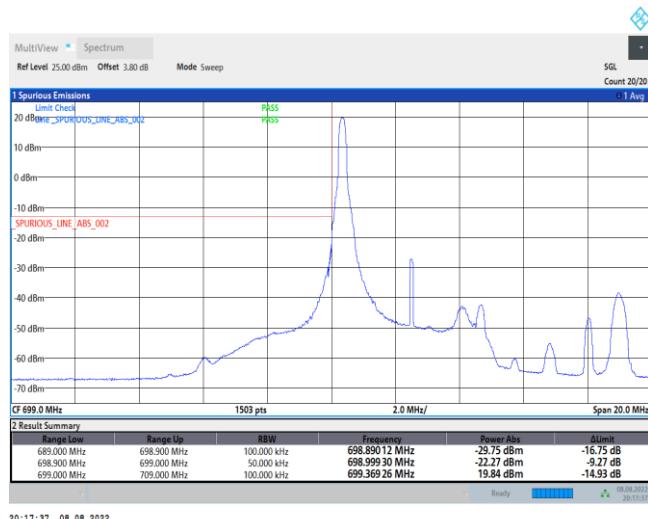
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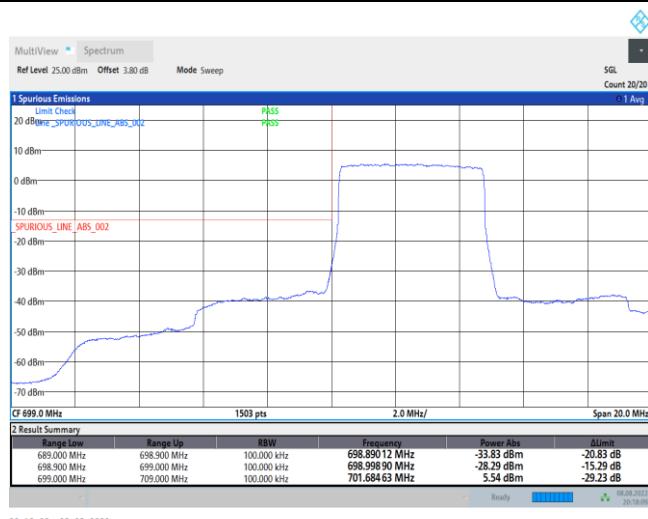
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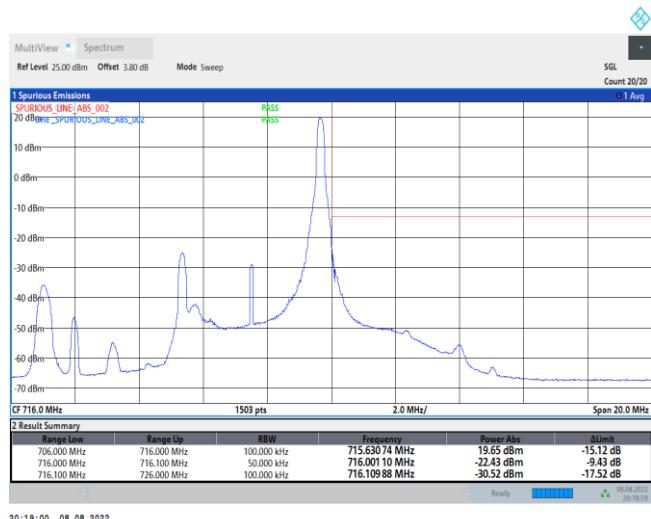


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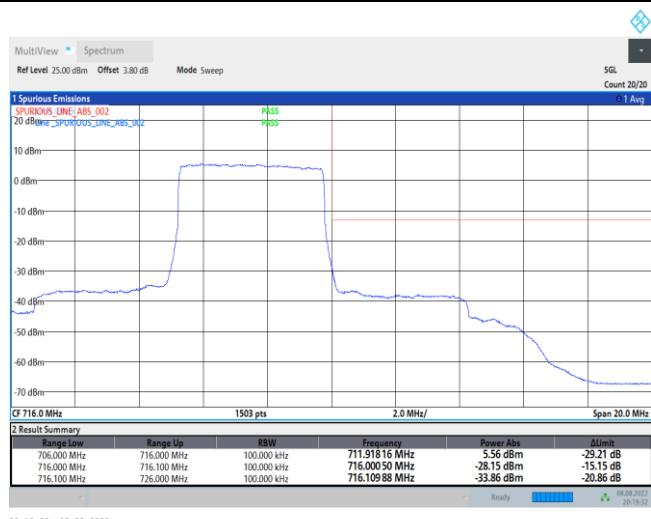
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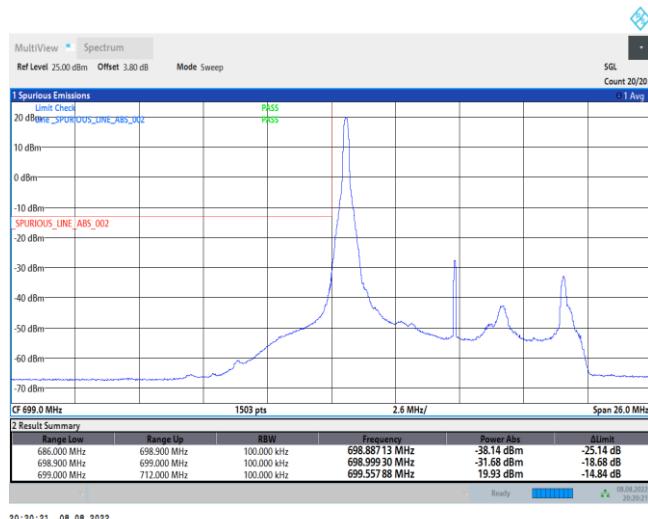


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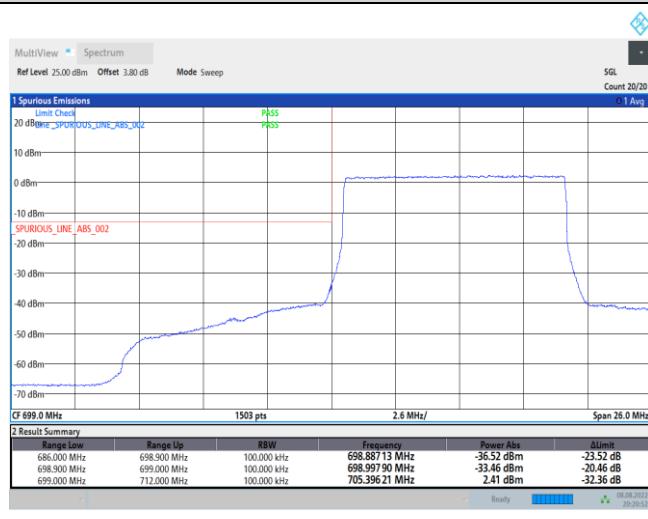
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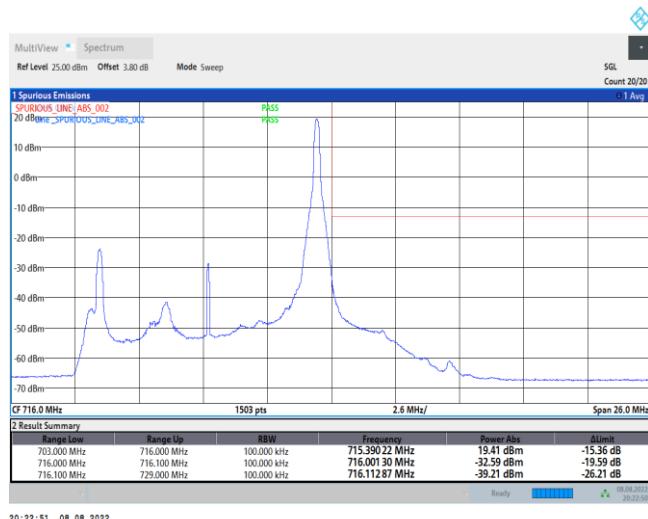
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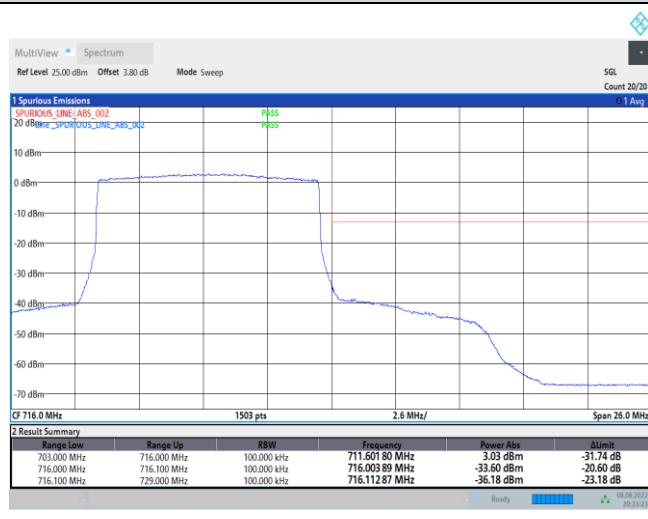
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Band12-10MHz-QPSK-23130-1RB#49



Band12-10MHz-QPSK-23130-50RB#0



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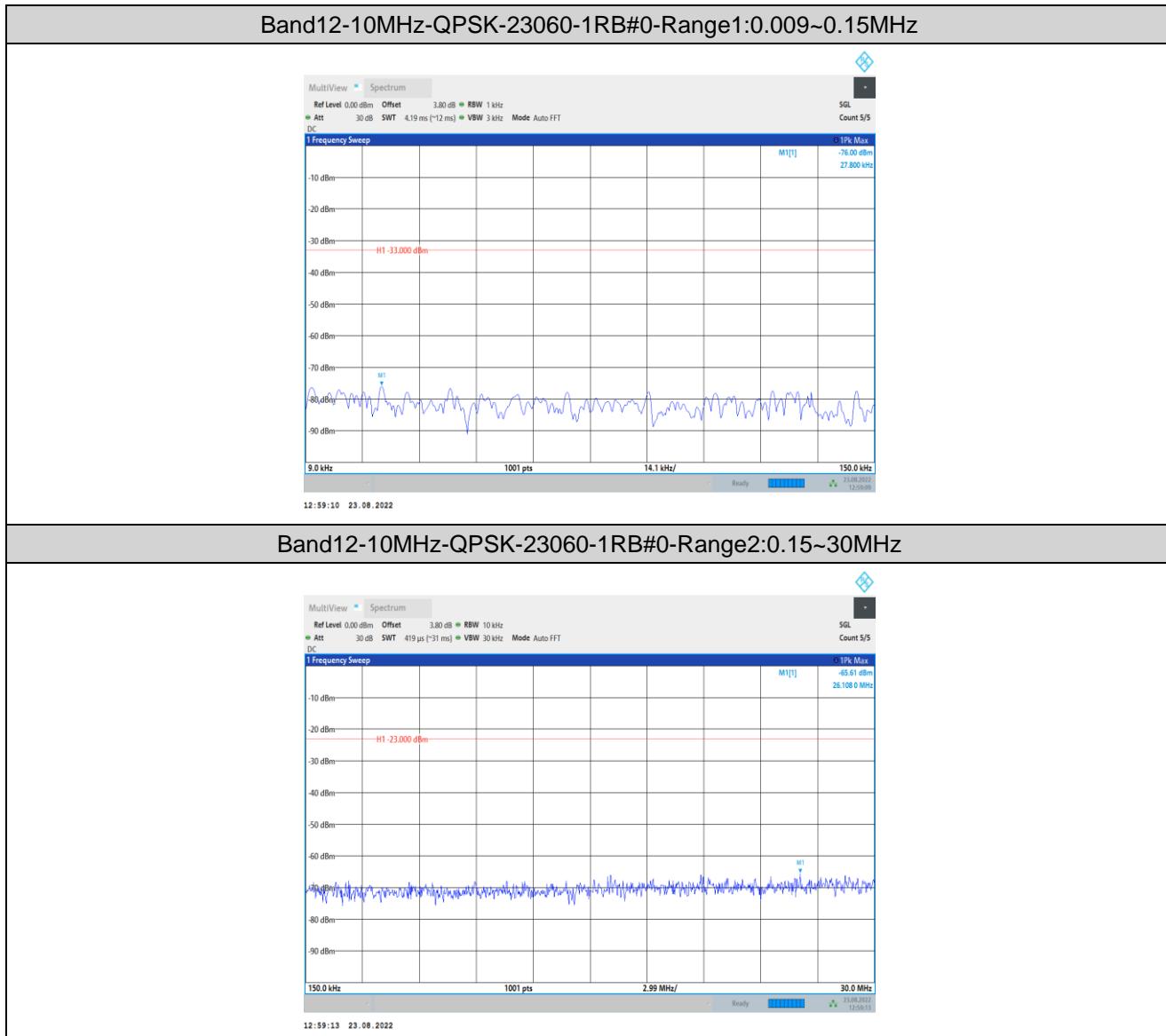
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Conducted Spurious Emission

Test Graphs



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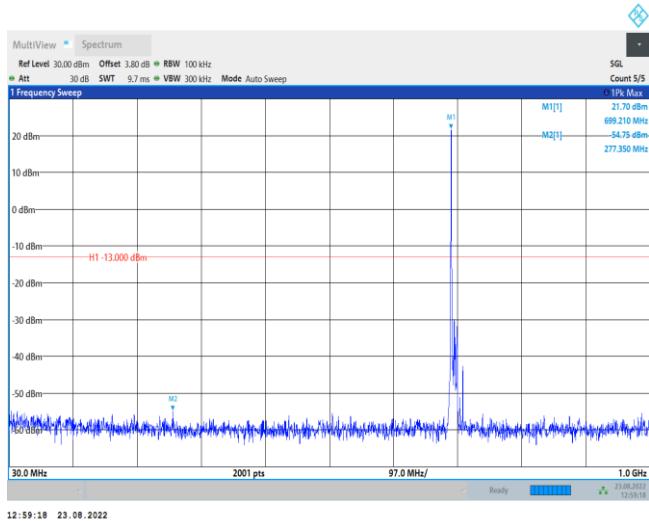
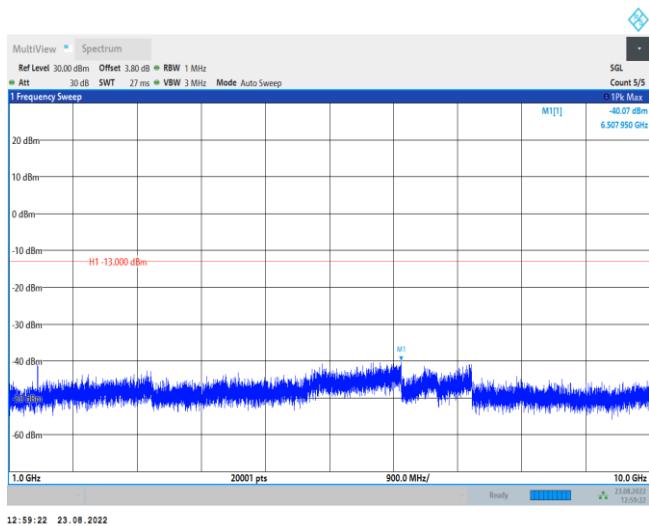


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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz**Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz**

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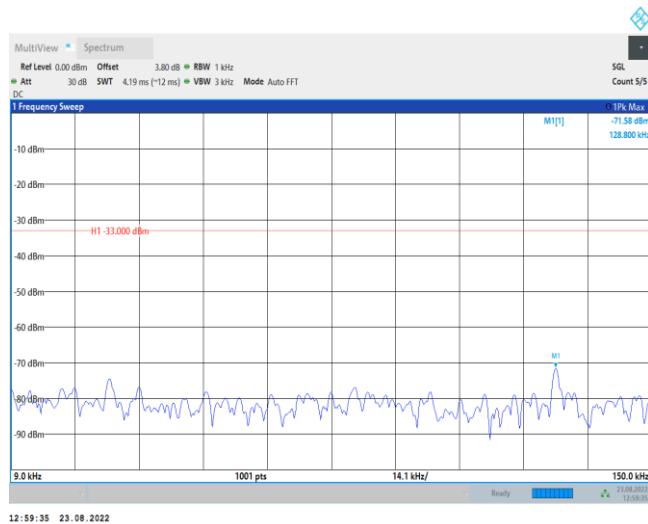
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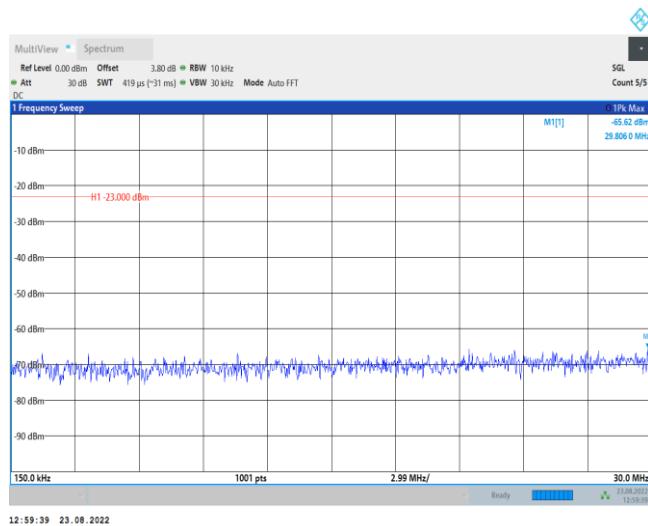
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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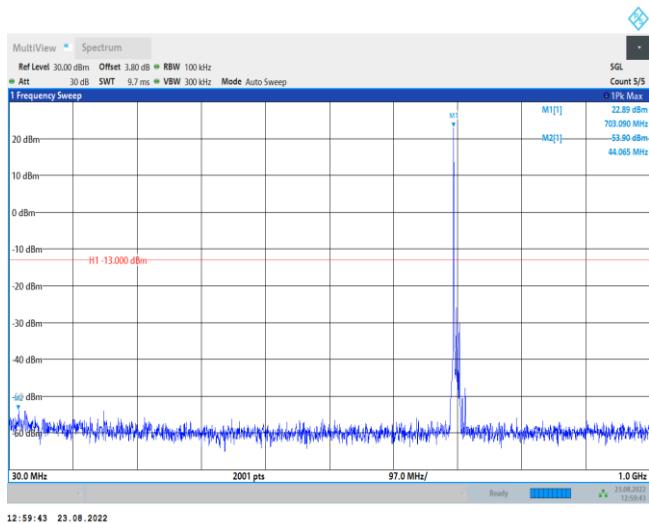
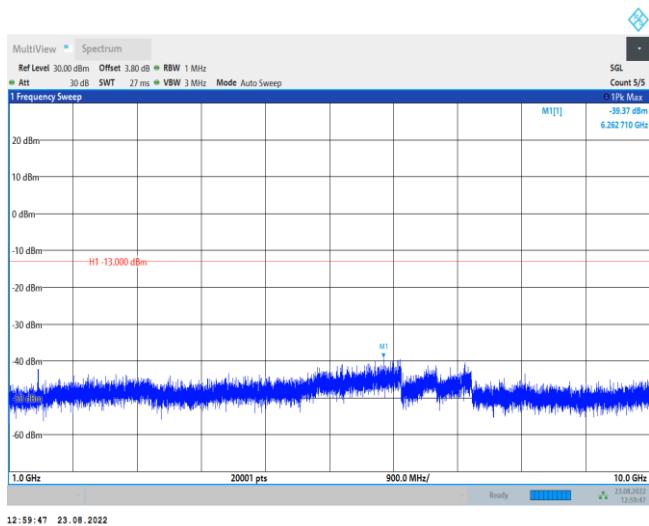


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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz**Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz**

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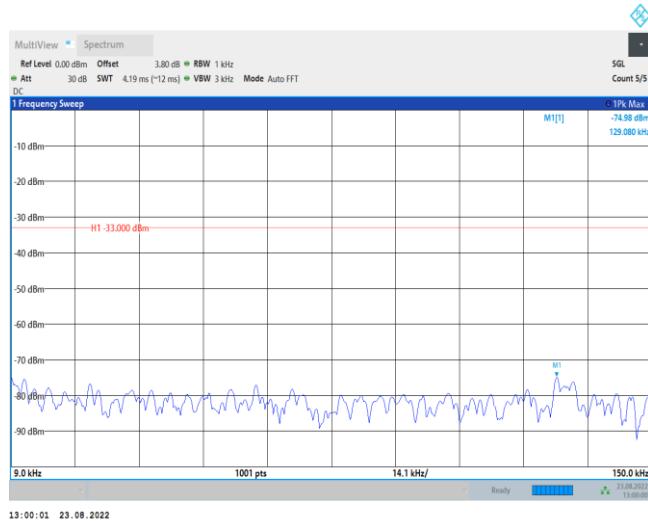
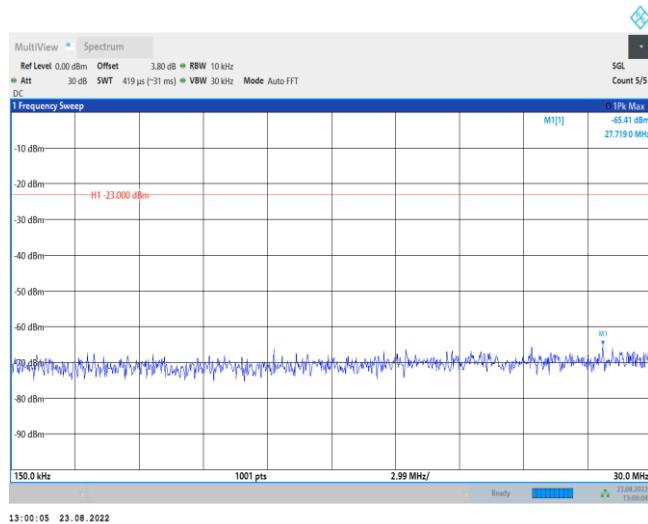


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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz**Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz**

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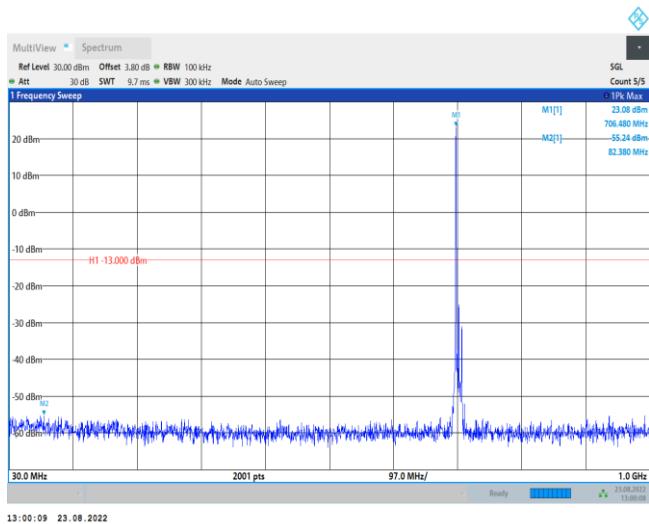
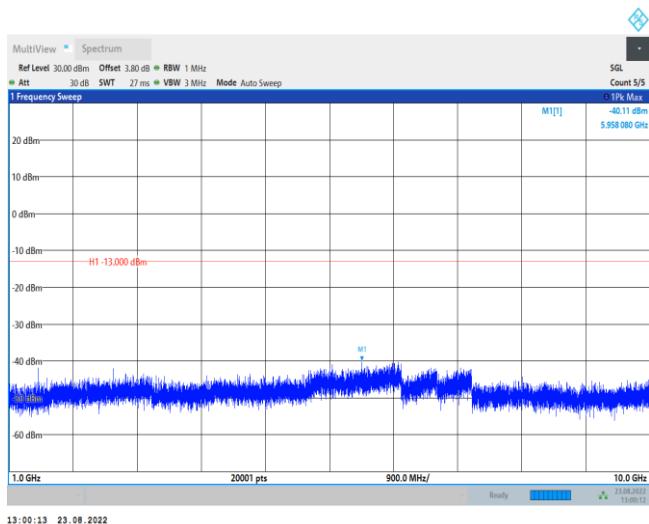


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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz**Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz**

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Field Strength of Spurious Radiation

Test Band = LTE Band12_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	56.55	-48.00	25.62	-61.09	-13.00	48.09	213	304	Horizontal
2	2098.7700	51.17	-47.71	26.99	-64.82	-13.00	51.82	261	210	Horizontal
3	2798.3600	51.91	-46.92	28.48	-61.79	-13.00	48.79	188	360	Horizontal
4	3497.9500	50.44	-46.54	29.52	-61.84	-13.00	48.84	194	66	Horizontal
5	4197.5400	48.15	-45.96	31.10	-61.97	-13.00	48.97	175	331	Horizontal
6	4897.1300	50.11	-45.58	32.59	-58.14	-13.00	45.14	126	360	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.1800	55.82	-48.00	25.62	-61.82	-13.00	48.82	201	281	Vertical
2	2098.7700	50.63	-47.71	26.99	-65.36	-13.00	52.36	236	242	Vertical
3	2798.3600	51.49	-46.92	28.48	-62.21	-13.00	49.21	288	242	Vertical
4	3497.9500	49.96	-46.54	29.52	-62.32	-13.00	49.32	159	17	Vertical
5	4197.5400	47.97	-45.96	31.10	-62.15	-13.00	49.15	147	17	Vertical
6	4897.1300	49.19	-45.58	32.59	-59.06	-13.00	46.06	126	70	Vertical



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Test Band = LTE Band12_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	55.33	-48.02	25.61	-62.34	-13.00	49.34	281	264	Horizontal
2	2109.2700	50.52	-47.71	27.02	-65.42	-13.00	52.42	145	210	Horizontal
3	2812.3600	51.31	-46.88	28.53	-62.29	-13.00	49.29	261	343	Horizontal
4	3515.4500	50.54	-46.51	29.53	-61.69	-13.00	48.69	199	277	Horizontal
5	4218.5400	48.84	-45.93	31.14	-61.21	-13.00	48.21	175	198	Horizontal
6	4921.6300	49.93	-45.63	32.66	-58.30	-13.00	45.30	142	79	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.1800	55.99	-48.02	25.61	-61.68	-13.00	48.68	251	280	Vertical
2	2109.2700	51.30	-47.71	27.02	-64.64	-13.00	51.64	126	319	Vertical
3	2812.3600	51.10	-46.88	28.53	-62.50	-13.00	49.50	299	213	Vertical
4	3515.4500	50.97	-46.51	29.53	-61.26	-13.00	48.26	147	42	Vertical
5	4218.5400	49.29	-45.93	31.14	-60.76	-13.00	47.76	213	0	Vertical
6	4921.6300	49.21	-45.63	32.66	-59.02	-13.00	46.02	210	1	Vertical

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Test Band = LTE Band12_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	53.69	-48.04	25.60	-64.01	-13.00	51.01	216	264	Horizontal
2	2119.7700	52.66	-47.70	27.06	-63.24	-13.00	50.24	144	159	Horizontal
3	2826.3600	50.55	-46.83	28.60	-62.94	-13.00	49.94	175	93	Horizontal
4	3532.9500	50.63	-46.47	29.55	-61.55	-13.00	48.55	185	39	Horizontal
5	4239.5400	48.62	-45.89	31.18	-61.35	-13.00	48.35	236	213	Horizontal
6	4946.1300	48.29	-45.69	32.73	-59.93	-13.00	46.93	211	305	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	53.10	-48.04	25.60	-64.60	-13.00	51.60	198	43	Vertical
2	2119.7700	50.46	-47.70	27.06	-65.44	-13.00	52.44	145	70	Vertical
3	2826.3600	50.71	-46.83	28.60	-62.78	-13.00	49.78	172	29	Vertical
4	3532.9500	49.78	-46.47	29.55	-62.40	-13.00	49.40	236	150	Vertical
5	4239.5400	50.55	-45.89	31.18	-59.42	-13.00	46.42	261	347	Vertical
6	4946.1300	50.20	-45.69	32.73	-58.02	-13.00	45.02	144	202	Vertical

Remark:

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

Level = Reading Level(dBuV) + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

dBuV=dbm+95.26



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	0.70	0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	1.10	0.001555	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-1.60	-0.002261	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.60	0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	0.60	0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.60	-0.000848	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-0.80	-0.001131	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-0.30	-0.000424	PASS

$|\text{MAX}(\Delta f)| = 1.6 \text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L - \text{MAX}(\Delta f) $	699.568954	$\geq 699 \text{ MHz}$	PASS
$f_H + \text{MAX}(\Delta f) $	715.454182	$\leq 716 \text{ MHz}$	

---End of Attachment---

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