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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	23.08	24.19	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.14	24.25	34.77	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.96	24.07	34.77	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.02	23.13	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.98	24.09	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.10	24.21	34.77	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.97	24.08	34.77	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.02	23.13	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.96	24.07	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.98	24.09	34.77	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.93	24.04	34.77	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.95	23.06	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.34	23.45	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.35	23.46	34.77	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.23	23.34	34.77	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.13	22.24	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.42	23.53	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.35	23.46	34.77	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.27	23.38	34.77	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.06	22.17	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.17	23.28	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.26	23.37	34.77	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.27	23.38	34.77	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.97	22.08	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.09	24.20	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.06	24.17	34.77	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.01	24.12	34.77	PASS



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Band12	3MHz	QPSK	23025	15RB#0	22.16	23.27	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.15	24.26	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.01	24.12	34.77	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.03	24.14	34.77	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.08	23.19	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.05	24.16	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.02	24.13	34.77	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.87	23.98	34.77	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.00	23.11	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.44	23.55	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.41	23.52	34.77	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.25	23.36	34.77	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.17	22.28	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.32	23.43	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.42	23.53	34.77	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.25	23.36	34.77	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.03	22.14	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.23	23.34	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.35	23.46	34.77	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.17	23.28	34.77	PASS
Band12	3MHz	16QAM	23165	15RB#0	21.09	22.20	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.10	24.21	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.19	24.30	34.77	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.03	24.14	34.77	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.08	23.19	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.16	24.27	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.83	23.94	34.77	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.06	24.17	34.77	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.07	23.18	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.01	24.12	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.11	24.22	34.77	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.97	24.08	34.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.05	23.16	34.77	PASS



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Band12	5MHz	16QAM	23035	1RB#0	22.39	23.50	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.28	23.39	34.77	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.50	23.61	34.77	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.06	22.17	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.46	23.57	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.29	23.40	34.77	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.28	23.39	34.77	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.03	22.14	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.31	23.42	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.27	23.38	34.77	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.29	23.40	34.77	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.99	22.10	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.43	24.54	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.26	24.37	34.77	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.16	24.27	34.77	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.11	23.22	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.37	24.48	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.02	24.13	34.77	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.21	24.32	34.77	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.03	23.14	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.38	24.49	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.01	24.12	34.77	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.33	24.44	34.77	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.10	23.21	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.59	23.70	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.37	23.48	34.77	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.50	23.61	34.77	PASS
Band12	10MHz	16QAM	23060	50RB#0	21.01	22.12	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.61	23.72	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.36	23.47	34.77	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.41	23.52	34.77	PASS
Band12	10MHz	16QAM	23095	50RB#0	21.10	22.21	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.62	23.73	34.77	PASS



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Band12	10MHz	16QAM	23130	1RB#24	22.45	23.56	34.77	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.44	23.55	34.77	PASS
Band12	10MHz	16QAM	23130	50RB#0	21.13	22.24	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	6.66	13	PASS
Band12	10MHz	QPSK	23095	50RB#0	6.68	13	PASS
Band12	10MHz	QPSK	23130	50RB#0	6.66	13	PASS
Band12	10MHz	16QAM	23060	50RB#0	7.18	13	PASS
Band12	10MHz	16QAM	23095	50RB#0	7.20	13	PASS
Band12	10MHz	16QAM	23130	50RB#0	7.18	13	PASS

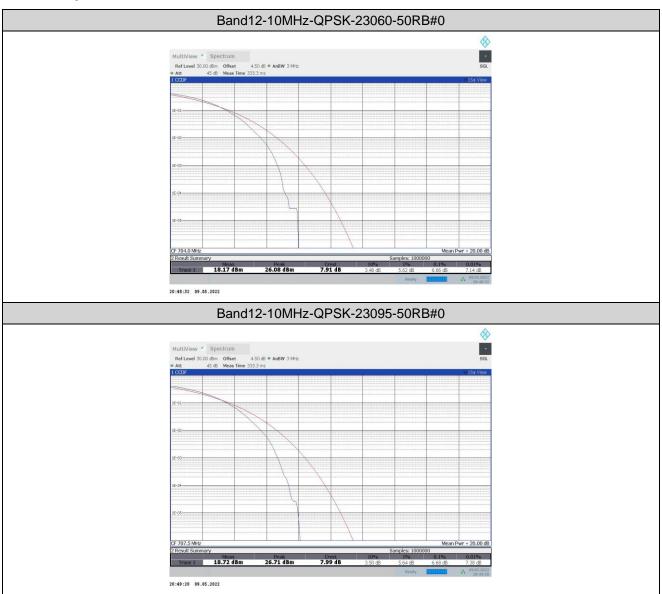




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#### **Test Graphs**





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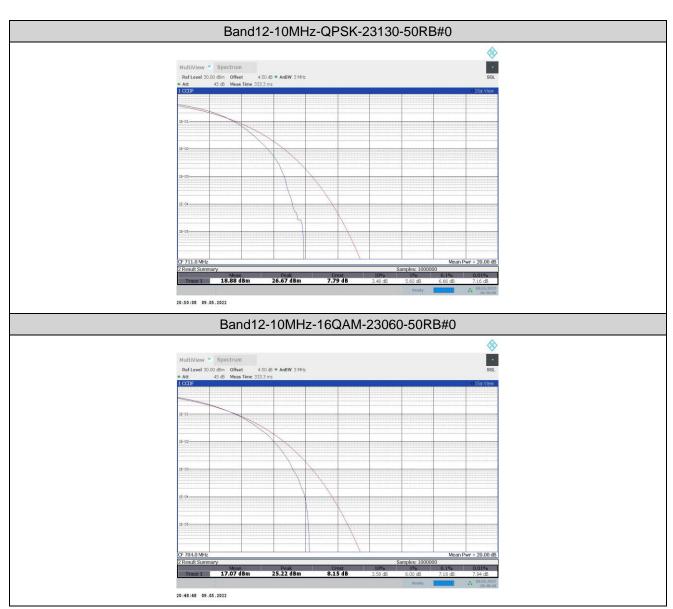
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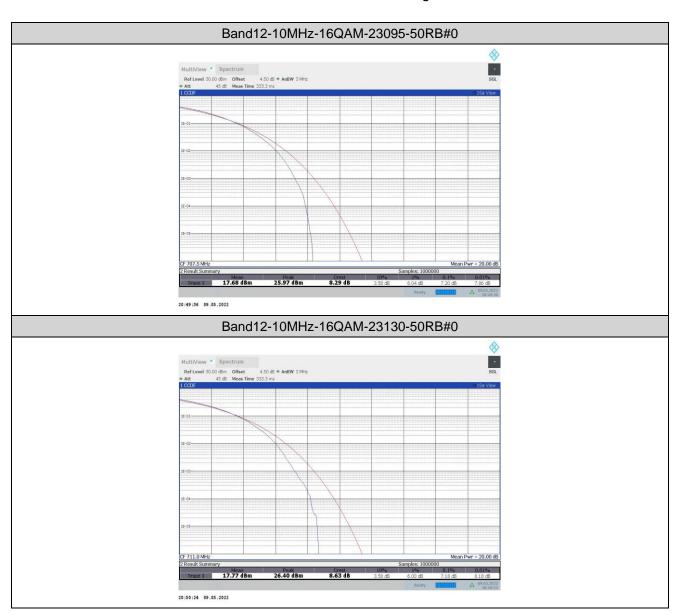
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#### **Modulation Characteristics**

#### **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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#### **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	1.089	1.27	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.09	1.28	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.09	1.28	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	1.095	1.29	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	1.095	1.29	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	1.098	1.29	PASS
Band12	3MHz	QPSK	23025	15RB#0	2.699	2.98	PASS
Band12	3MHz	QPSK	23095	15RB#0	2.691	2.98	PASS
Band12	3MHz	QPSK	23165	15RB#0	2.699	2.96	PASS
Band12	3MHz	16QAM	23025	15RB#0	2.689	2.98	PASS
Band12	3MHz	16QAM	23095	15RB#0	2.69	2.97	PASS
Band12	3MHz	16QAM	23165	15RB#0	2.691	2.97	PASS
Band12	5MHz	QPSK	23035	25RB#0	4.471	4.92	PASS
Band12	5MHz	QPSK	23095	25RB#0	4.468	4.91	PASS
Band12	5MHz	QPSK	23155	25RB#0	4.477	4.92	PASS
Band12	5MHz	16QAM	23035	25RB#0	4.468	4.93	PASS
Band12	5MHz	16QAM	23095	25RB#0	4.467	4.92	PASS
Band12	5MHz	16QAM	23155	25RB#0	4.471	4.93	PASS
Band12	10MHz	QPSK	23060	50RB#0	8.942	9.72	PASS
Band12	10MHz	QPSK	23095	50RB#0	8.923	9.66	PASS
Band12	10MHz	QPSK	23130	50RB#0	8.91	9.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	8.923	9.68	PASS
Band12	10MHz	16QAM	23095	50RB#0	8.908	9.68	PASS
Band12	10MHz	16QAM	23130	50RB#0	8.905	9.68	PASS



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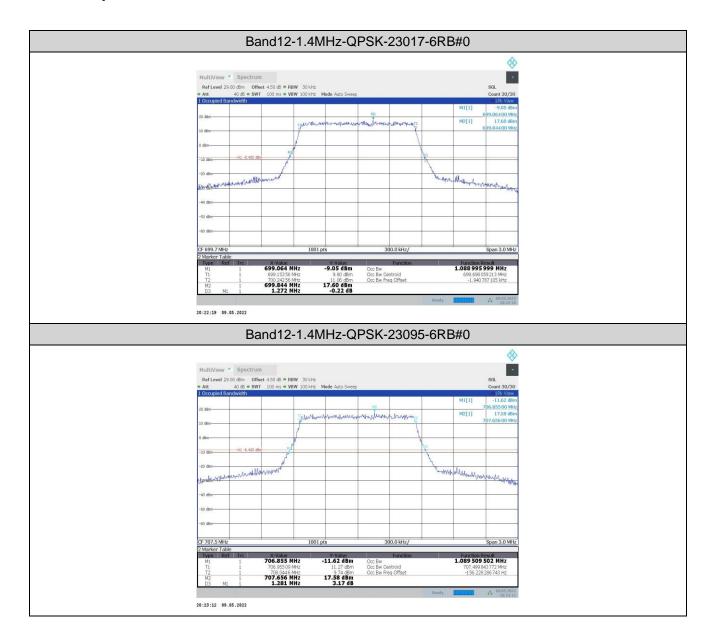


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#### **Test Graphs**





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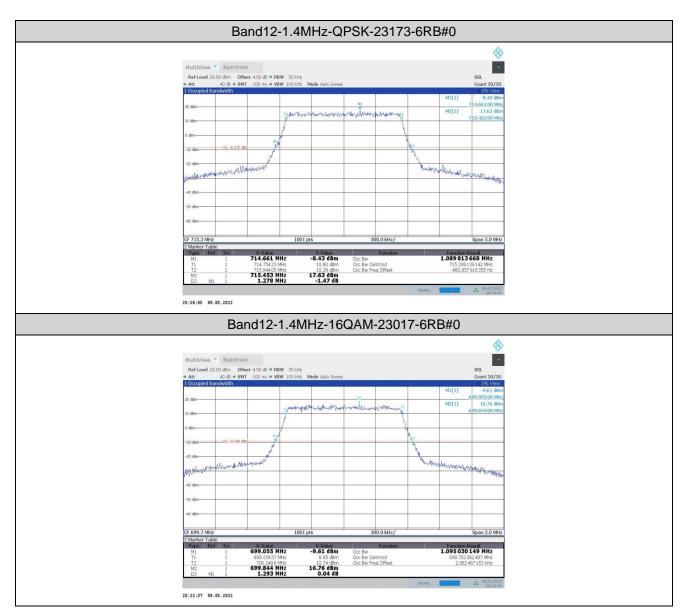
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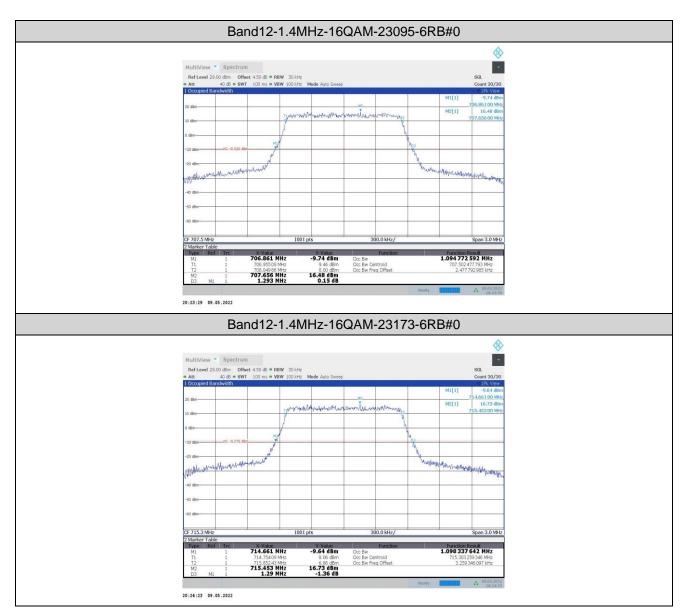
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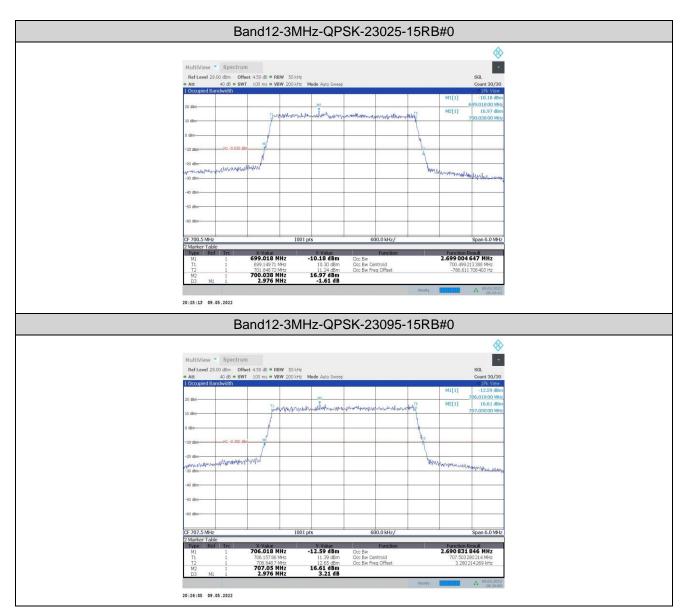
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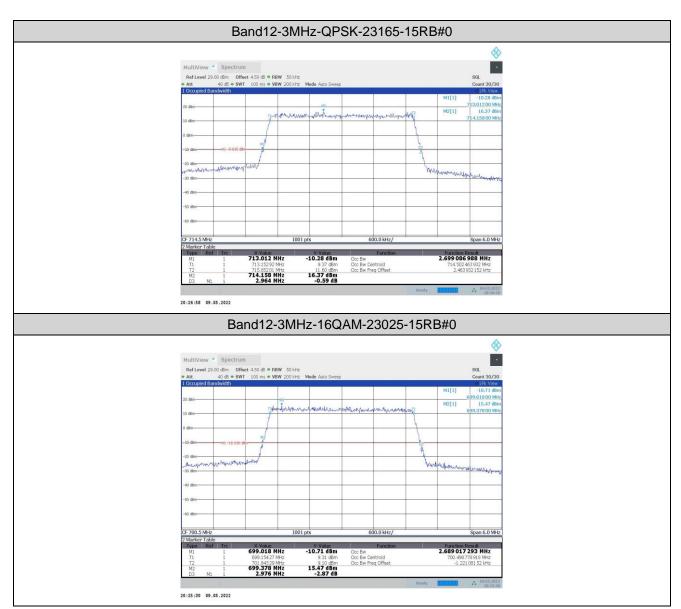
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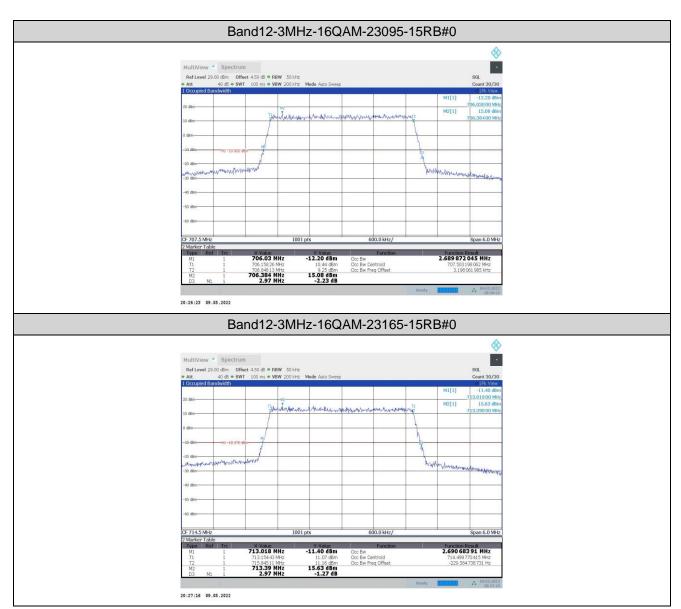
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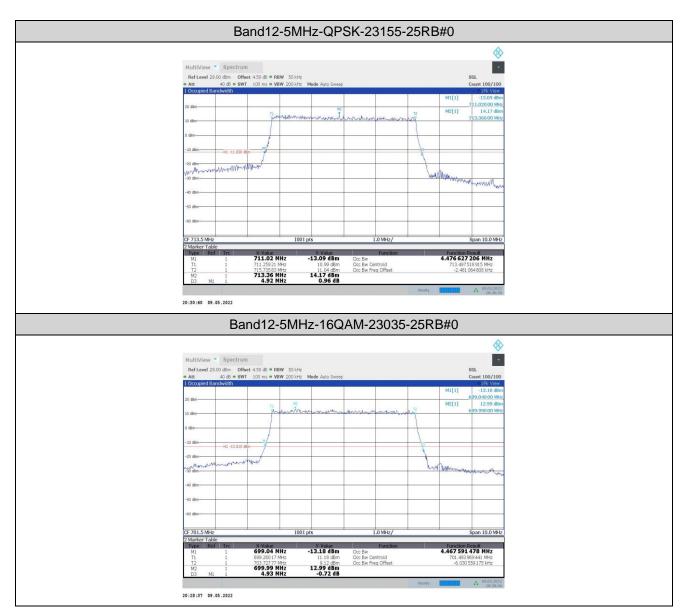
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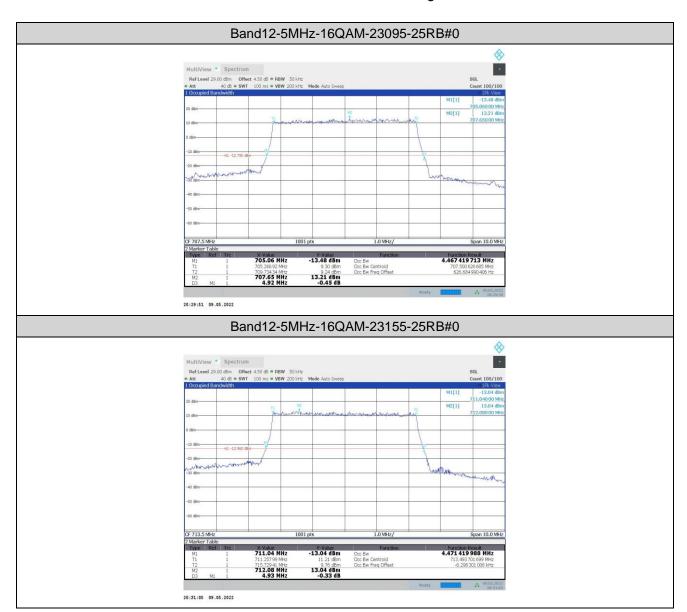
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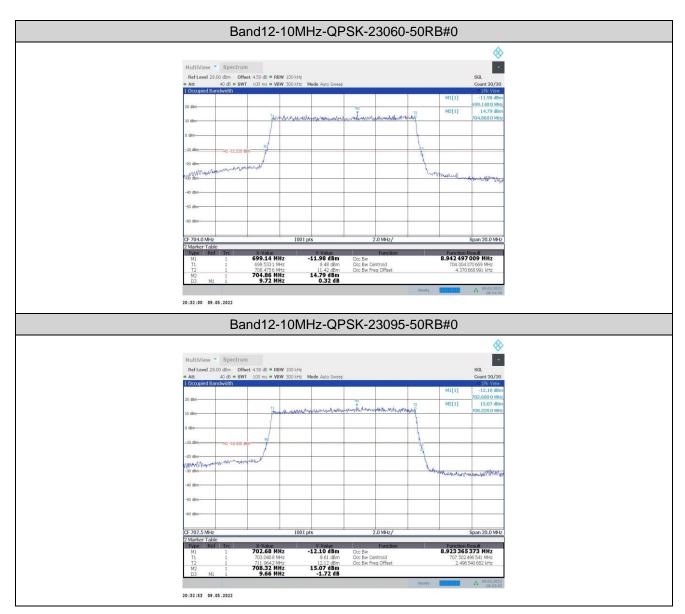
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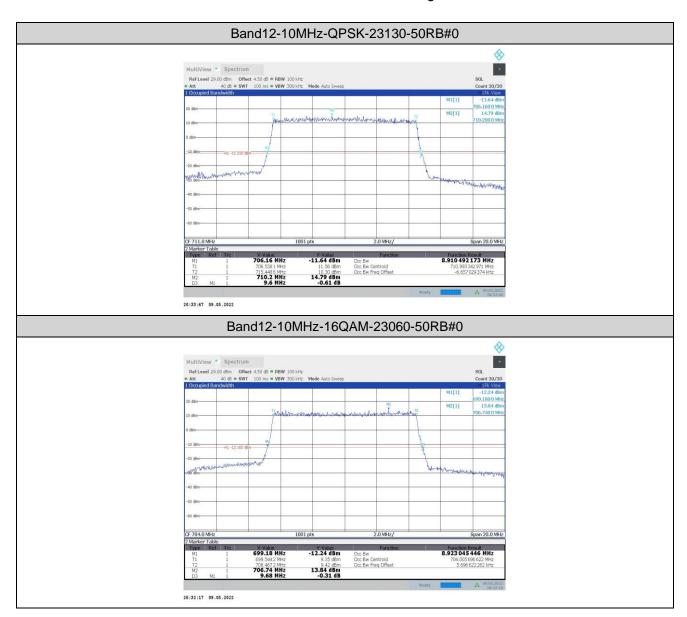
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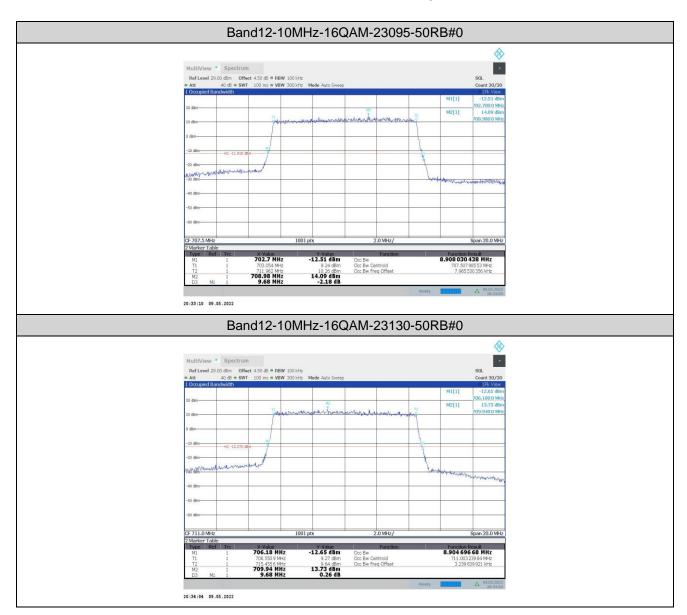
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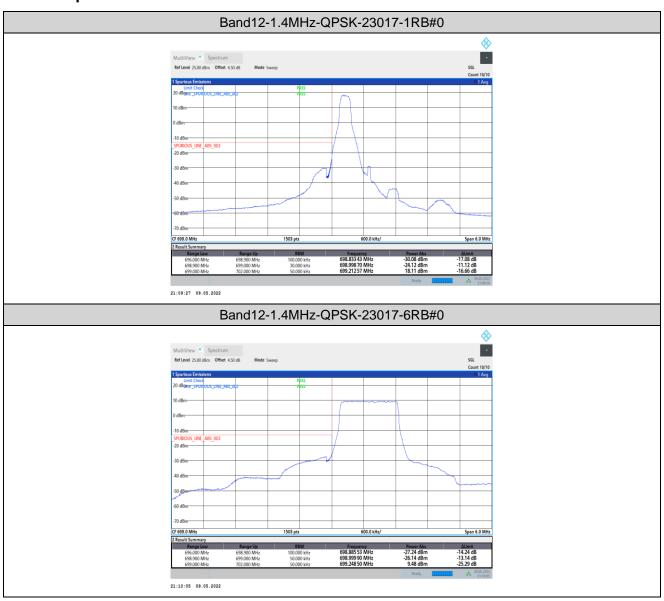
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#### **Band Edge**

#### **Test Graphs**





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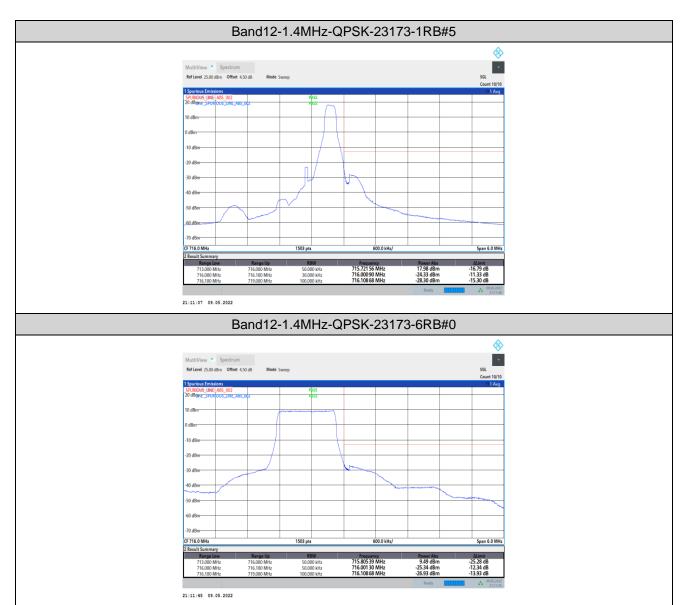
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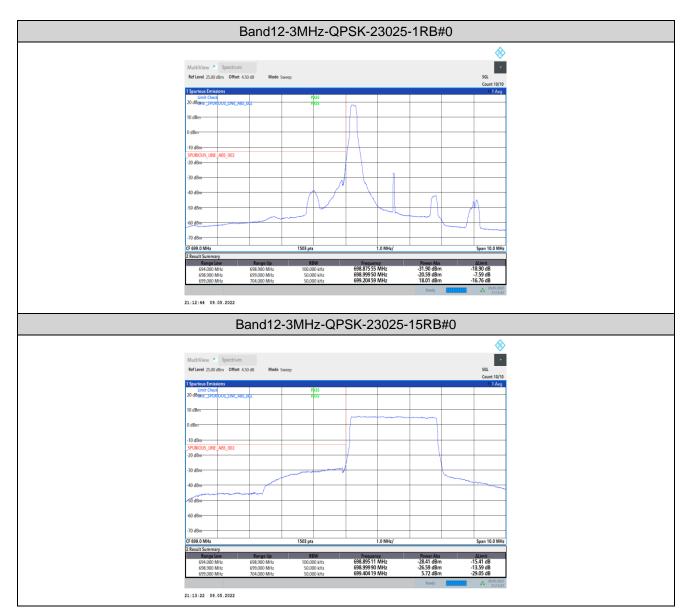
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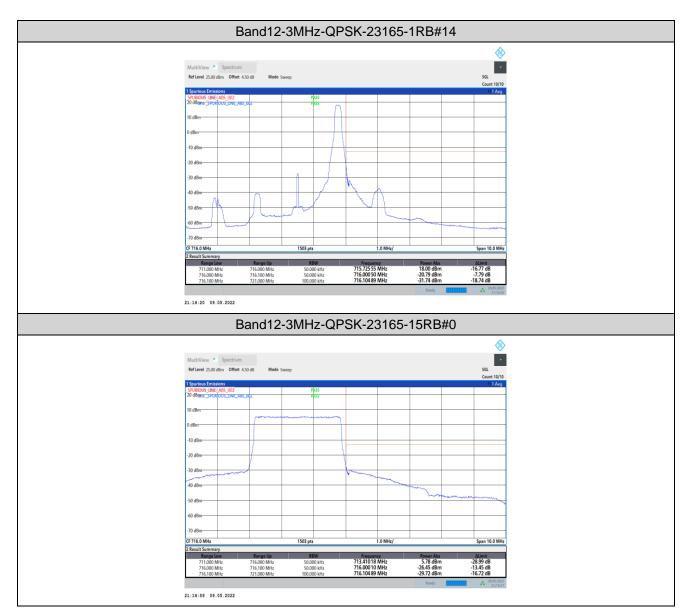
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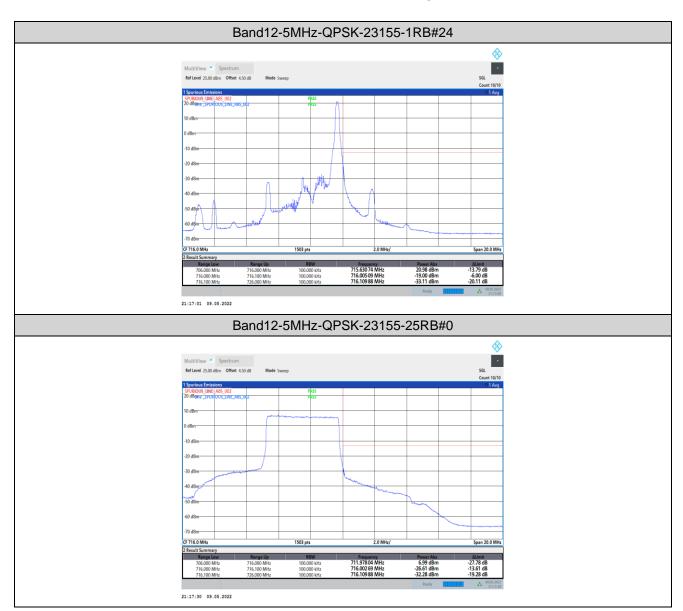
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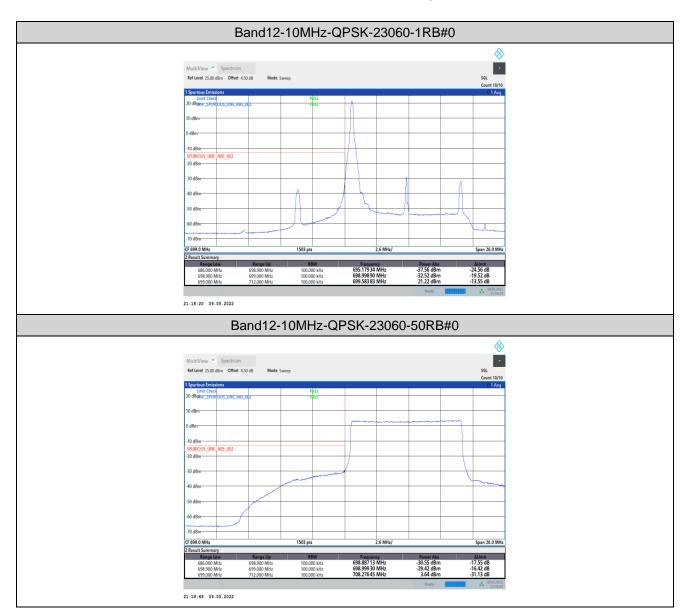
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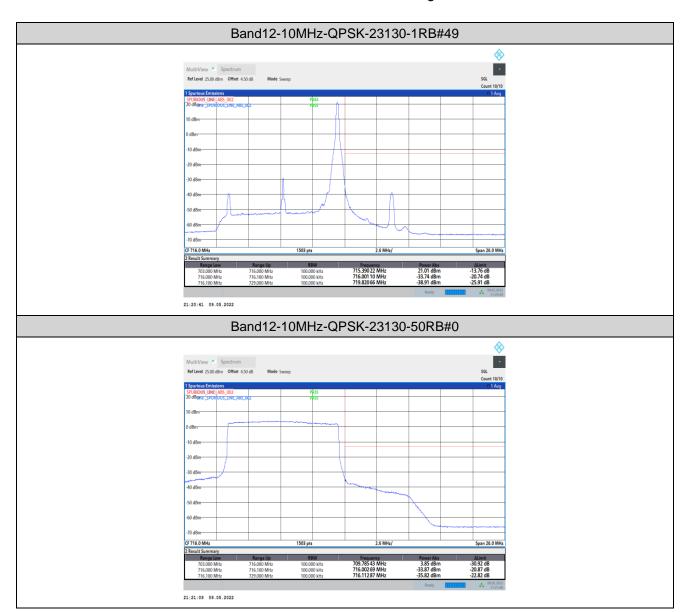
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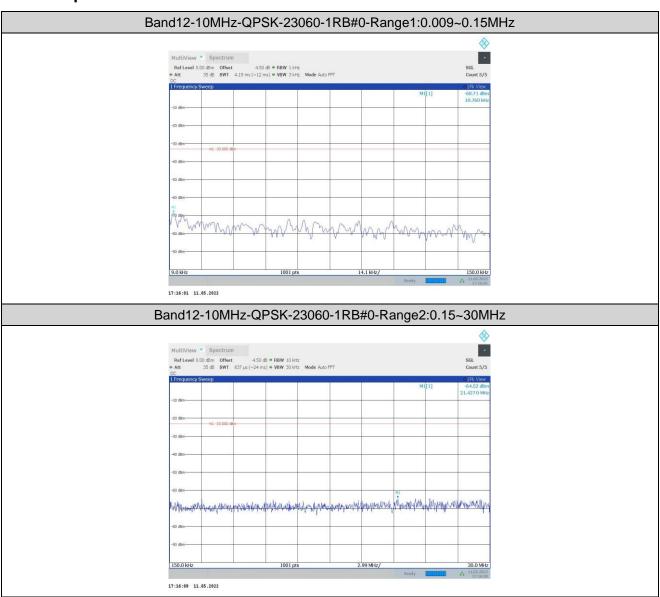
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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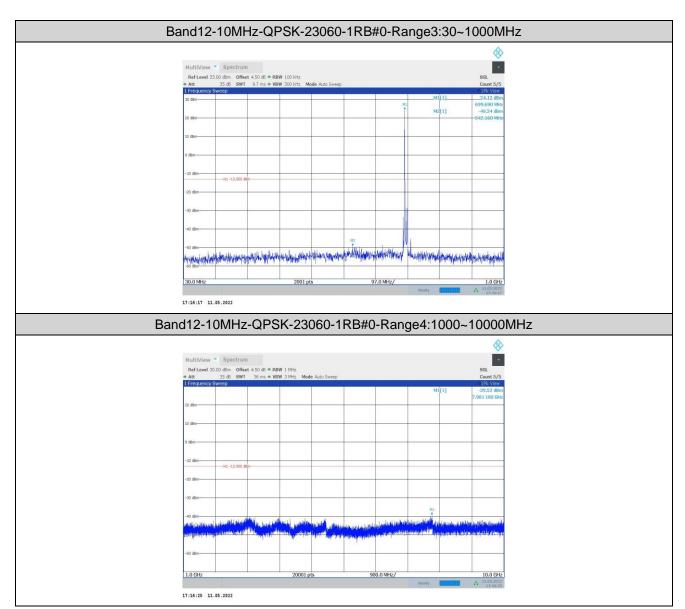
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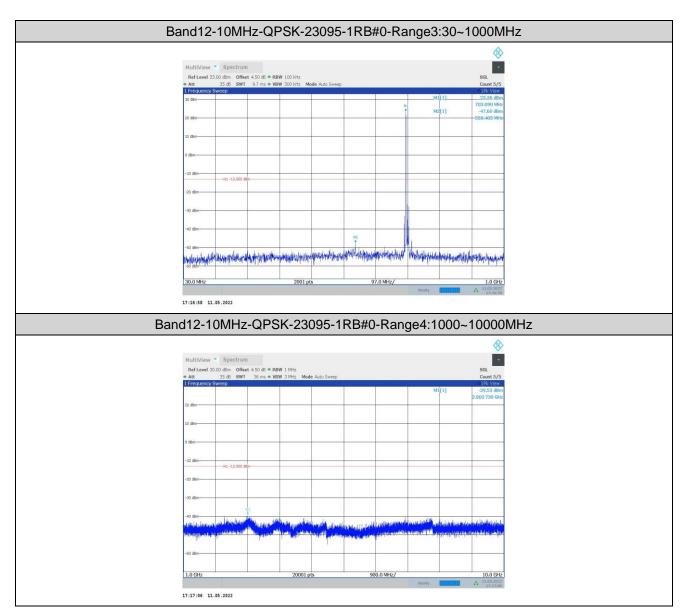
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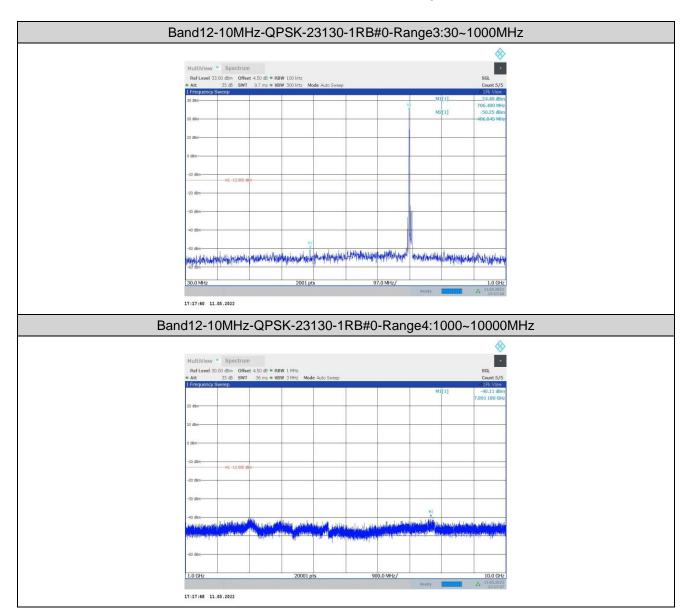
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#### **Field Strength of Spurious Radiation**

Test Band = LTE Band 12\_ TM1
Test Channel = Low

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1399.1800	58.16	-117.64	-59.48	-13.00	46.48	158	138	Horizontal			
2	2098.7700	66.11	-115.99	-49.88	-13.00	36.88	169	354	Horizontal			
3	2798.3600	51.71	-113.70	-61.99	-13.00	48.99	142	125	Horizontal			
4	3497.9500	50.67	-112.28	-61.61	-13.00	48.61	231	24	Horizontal			
5	4197.5400	52.41	-110.12	-57.71	-13.00	44.71	102	296	Horizontal			
6	4897.1300	50.62	-108.25	-57.63	-13.00	44.63	188	55	Horizontal			

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolority.			
INO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1399.1800	53.73	-117.64	-63.91	-13.00	50.91	187	124	Vertical			
2	2098.7700	58.36	-115.99	-57.63	-13.00	44.63	194	209	Vertical			
3	2798.3600	50.73	-113.70	-62.97	-13.00	49.97	172	211	Vertical			
4	3497.9500	51.96	-112.28	-60.32	-13.00	47.32	215	306	Vertical			
5	4197.5400	49.53	-110.12	-60.59	-13.00	47.59	123	11	Vertical			
6	4897.1300	51.18	-108.25	-57.07	-13.00	44.07	208	178	Vertical			





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#### Test Band = LTE Band 12\_ TM1 Test Channel = Mid

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folality			
1	1406.1800	70.83	-117.67	-46.84	-13.00	33.84	288	236	Horizontal			
2	2109.2700	59.73	-115.94	-56.21	-13.00	43.21	164	257	Horizontal			
3	2812.3600	53.00	-113.60	-60.60	-13.00	47.60	195	214	Horizontal			
4	3515.4500	51.46	-112.23	-60.77	-13.00	47.77	172	33	Horizontal			
5	4218.5400	50.59	-110.05	-59.46	-13.00	46.46	211	330	Horizontal			
6	4921.6300	49.35	-108.23	-58.88	-13.00	45.88	201	76	Horizontal			

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folanty			
1	1406.1800	60.75	-117.67	-56.92	-13.00	43.92	255	207	Vertical			
2	2109.2700	59.69	-115.94	-56.25	-13.00	43.25	142	240	Vertical			
3	2812.3600	52.13	-113.60	-61.47	-13.00	48.47	199	132	Vertical			
4	3515.4500	52.79	-112.23	-59.44	-13.00	46.44	172	240	Vertical			
5	4218.5400	51.09	-110.05	-58.96	-13.00	45.96	201	356	Vertical			
6	4921.6300	51.09	-108.23	-57.14	-13.00	44.14	233	186	Vertical			





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#### Test Band = LTE Band 12\_ TM1 Test Channel = High

Final	Final Data List											
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Polarity			
NO.	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Folanty			
1	1413.1429	67.54	-117.70	-50.16	-13.00	37.16	211	21	Horizontal			
2	2119.7700	66.33	-115.90	-49.57	-13.00	36.57	195	199	Horizontal			
3	2826.3600	53.44	-113.49	-60.05	-13.00	47.05	172	21	Horizontal			
4	3532.9500	53.48	-112.18	-58.70	-13.00	45.70	201	166	Horizontal			
5	4239.5400	50.92	-109.97	-59.05	-13.00	46.05	133	146	Horizontal			
6	4946.1300	51.58	-108.22	-56.64	-13.00	43.64	255	135	Horizontal			

Final Data List										
NO.	Frequency	Reading	Factor	Level	Limit	Margin	Height	Angle	Dolovitu	
	[MHz]	[dBµV]	[dB]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity	
1	1413.1429	56.32	-117.70	-61.38	-13.00	48.38	251	97	Vertical	
2	2119.4286	61.13	-115.91	-54.78	-13.00	41.78	169	288	Vertical	
3	2826.3600	53.39	-113.49	-60.10	-13.00	47.10	176	76	Vertical	
4	3532.9500	53.23	-112.18	-58.95	-13.00	45.95	235	192	Vertical	
5	4239.5400	51.97	-109.97	-58.00	-13.00	45.00	133	24	Vertical	
6	4946.1300	51.67	-108.22	-56.55	-13.00	43.55	165	234	Vertical	





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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	1.50	0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	3.90	0.005512	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	-0.70	-0.000989	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	3.20	0.004523	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.50	0.000707	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	3.90	0.005512	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	1.40	0.001979	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	2.60	0.003675	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-1.20	-0.001696	PASS

The End

