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# Appendix B.13

LTE Band 71



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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
Band71	5MHz	QPSK	133147	1RB#0	23.85	24.7	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.19	24.04	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.91	23.76	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.16	23.01	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	23.08	23.93	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	23.22	24.07	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.87	23.72	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22.27	23.12	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	23.17	24.02	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	23.37	24.22	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.03	23.88	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	22.3	23.15	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.05	21.9	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.15	23	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.1	22.95	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.27	22.12	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.9	22.75	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.06	22.91	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.99	22.84	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.08	21.93	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	22.2	23.05	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.17	23.02	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.03	22.88	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	21.24	22.09	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.14	22.99	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.46	24.31	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.05	23.9	34.77	PASS



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Band71	10MHz	QPSK	133172	50RB#0	22.24	23.09	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	23.13	23.98	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	23.39	24.24	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	23.21	24.06	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.19	23.04	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.22	24.07	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	23.38	24.23	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23.26	24.11	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	22.35	23.2	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.33	22.18	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.9	23.75	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.94	22.79	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	21.17	22.02	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.48	23.33	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.84	23.69	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	22.42	23.27	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	21.21	22.06	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	22.05	22.9	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.14	22.99	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.49	23.34	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	21.26	22.11	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.13	22.98	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.27	24.12	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.94	23.79	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.15	23	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.06	23.91	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.11	23.96	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.01	23.86	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.18	23.03	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.95	23.8	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.35	24.2	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	23.13	23.98	34.77	PASS
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Band71         15MHz         16QAM         133197         1RB#0         21.29         22.14         34.77         F           Band71         15MHz         16QAM         133197         1RB#38         22.04         22.89         34.77         F           Band71         15MHz         16QAM         133197         1RB#74         21.8         22.65         34.77         F           Band71         15MHz         16QAM         133197         75RB#0         21.25         22.1         34.77         F           Band71         15MHz         16QAM         133297         1RB#0         22.04         22.89         34.77         F           Band71         15MHz         16QAM         133297         1RB#38         22         22.85         34.77         F	PASS PASS PASS PASS PASS PASS PASS
Band71         15MHz         16QAM         133197         1RB#38         22.04         22.89         34.77         F           Band71         15MHz         16QAM         133197         1RB#74         21.8         22.65         34.77         F           Band71         15MHz         16QAM         133197         75RB#0         21.25         22.1         34.77         F           Band71         15MHz         16QAM         133297         1RB#0         22.04         22.89         34.77         F           Band71         15MHz         16QAM         133297         1RB#38         22         22.85         34.77         F	PASS PASS PASS PASS PASS
Band71       15MHz       16QAM       133197       1RB#74       21.8       22.65       34.77       F         Band71       15MHz       16QAM       133197       75RB#0       21.25       22.1       34.77       F         Band71       15MHz       16QAM       133297       1RB#0       22.04       22.89       34.77       F         Band71       15MHz       16QAM       133297       1RB#38       22       22.85       34.77       F	PASS PASS PASS PASS
Band71     15MHz     16QAM     133197     75RB#0     21.25     22.1     34.77     F       Band71     15MHz     16QAM     133297     1RB#0     22.04     22.89     34.77     F       Band71     15MHz     16QAM     133297     1RB#38     22     22.85     34.77     F	PASS PASS PASS
Band71         15MHz         16QAM         133297         1RB#0         22.04         22.89         34.77         F           Band71         15MHz         16QAM         133297         1RB#38         22         22.85         34.77         F	ASS ASS ASS
Band71 15MHz 16QAM 133297 1RB#38 22 22.85 34.77 F	ASS ASS
	ASS
Band71         15MHz         16QAM         133297         1RB#74         22.07         22.92         34.77         F	
	ASS
Band71         15MHz         16QAM         133297         75RB#0         21.28         22.13         34.77         F	,
Band71         15MHz         16QAM         133397         1RB#0         22.05         22.9         34.77         F	ASS
Band71         15MHz         16QAM         133397         1RB#38         22.81         23.66         34.77         F	ASS
Band71         15MHz         16QAM         133397         1RB#74         22.14         22.99         34.77         F	ASS
Band71         15MHz         16QAM         133397         75RB#0         21.35         22.2         34.77         F	ASS
Band71 20MHz QPSK 133222 1RB#0 22.03 22.88 34.77 F	ASS
Band71         20MHz         QPSK         133222         1RB#49         23.37         24.22         34.77         F	ASS
Band71         20MHz         QPSK         133222         1RB#99         22.85         23.7         34.77         F	ASS
Band71         20MHz         QPSK         133222         100RB#0         22.15         23         34.77         F	ASS
Band71         20MHz         QPSK         133322         1RB#0         22.99         23.84         34.77         F	ASS
Band71         20MHz         QPSK         133322         1RB#49         23.21         24.06         34.77         F	ASS
Band71         20MHz         QPSK         133322         1RB#99         23.12         23.97         34.77         F	ASS
Band71         20MHz         QPSK         133322         100RB#0         22.17         23.02         34.77         F	ASS
Band71         20MHz         QPSK         133372         1RB#0         23.05         23.9         34.77         F	ASS
Band71         20MHz         QPSK         133372         1RB#49         23.3         24.15         34.77         F	ASS
Band71         20MHz         QPSK         133372         1RB#99         23.11         23.96         34.77         F	ASS
Band71         20MHz         QPSK         133372         100RB#0         22.21         23.06         34.77         F	ASS
Band71         20MHz         16QAM         133222         1RB#0         21.3         22.15         34.77         F	ASS
Band71         20MHz         16QAM         133222         1RB#49         22.72         23.57         34.77         F	ASS
Band71         20MHz         16QAM         133222         1RB#99         21.79         22.64         34.77         F	ASS
Band71 20MHz 16QAM 133222 100RB#0 21.06 21.91 34.77 F	ASS
Band71 20MHz 16QAM 133322 1RB#0 21.94 22.79 34.77 F	ASS
Band71 20MHz 16QAM 133322 1RB#49 21.79 22.64 34.77 F	ASS
Band71 20MHz 16QAM 133322 1RB#99 22.02 22.87 34.77 F	ASS



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Band71	20MHz	16QAM	133322	100RB#0	21.16	22.01	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	22.24	23.09	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.97	22.82	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	22.27	23.12	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	21.12	21.97	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
Band71	20MHz	QPSK	133222	100RB#0	5.52	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.10	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.42	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.20	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.00	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.18	13	PASS



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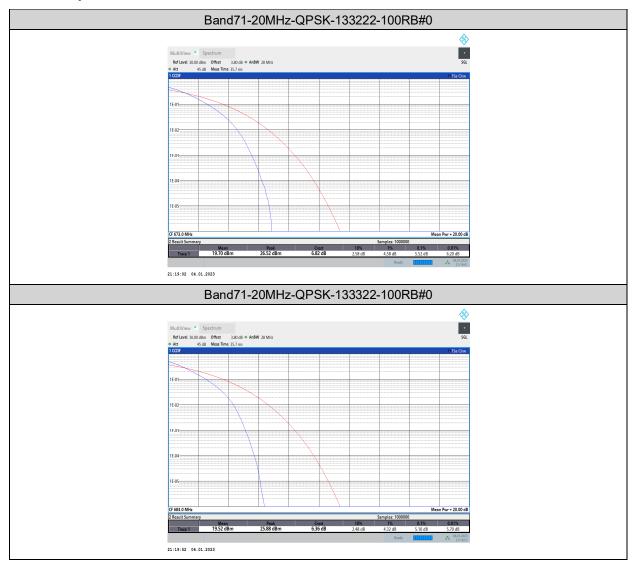
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#### **Test Graphs**





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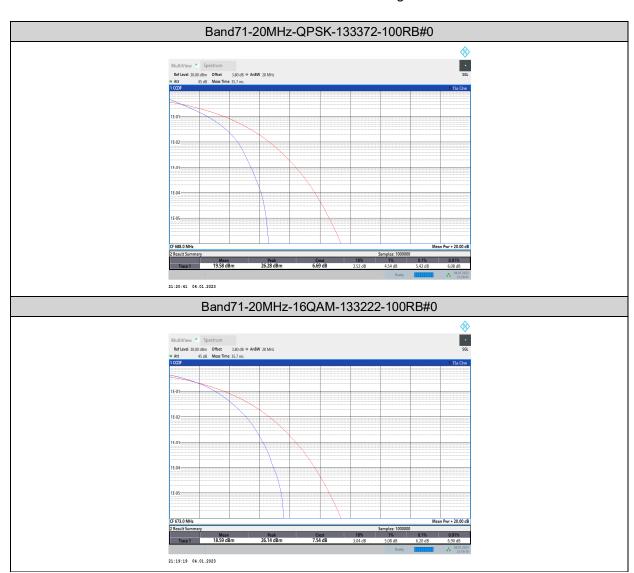
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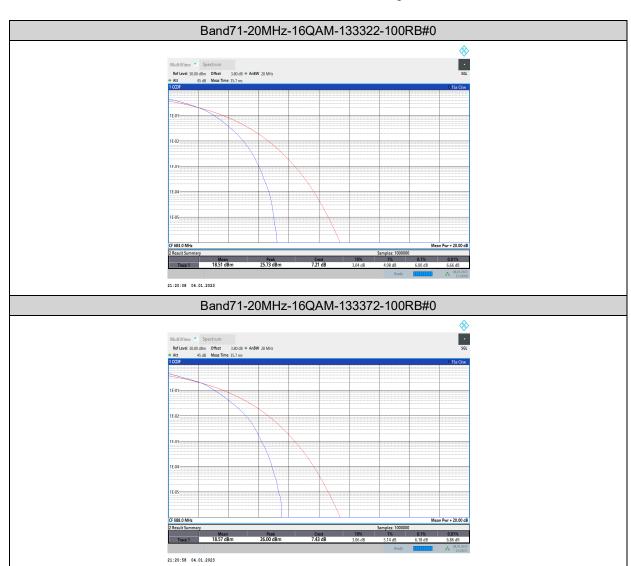
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#### **Modulation Characteristics**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band71	20MHz	QPSK	133322	100RB#0	PASS	PASS
Band71	20MHz	16QAM	133322	100RB#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
Band71	5MHz	QPSK	133147	25RB#0	4.452	4.86	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.461	4.88	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.464	4.88	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.455	4.88	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.461	4.92	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.462	4.92	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.893	9.56	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.909	9.60	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.927	9.68	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.871	9.56	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.887	9.60	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.92	9.68	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.415	14.70	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.375	14.70	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.469	14.82	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.394	14.76	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.37	14.79	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.461	14.82	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.871	19.40	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.822	19.24	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.913	19.32	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.827	19.36	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.785	19.20	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.867	19.32	PASS



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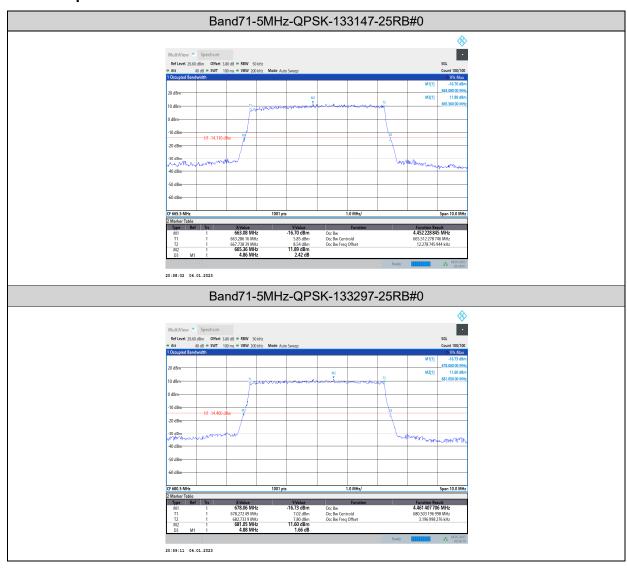


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#### **Test Graphs**





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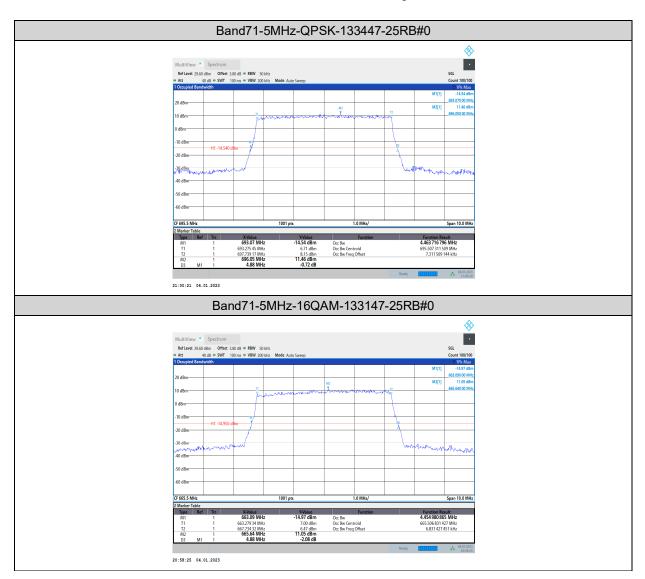
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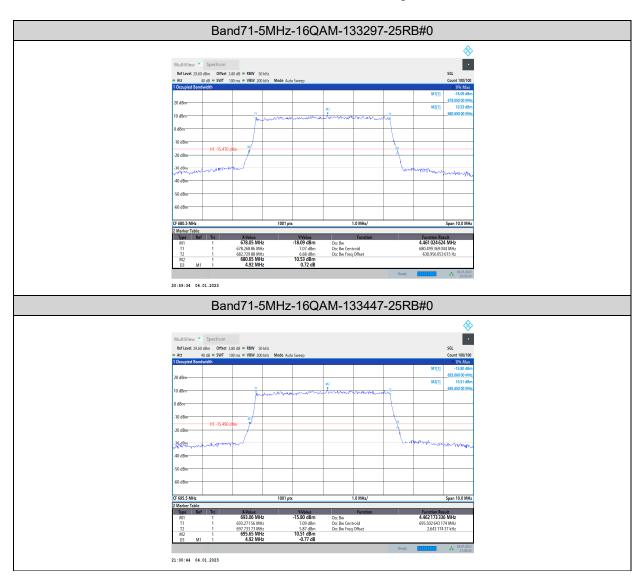
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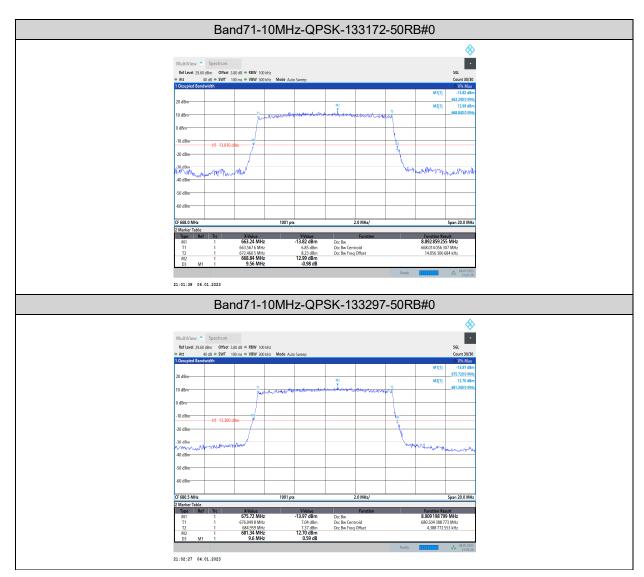
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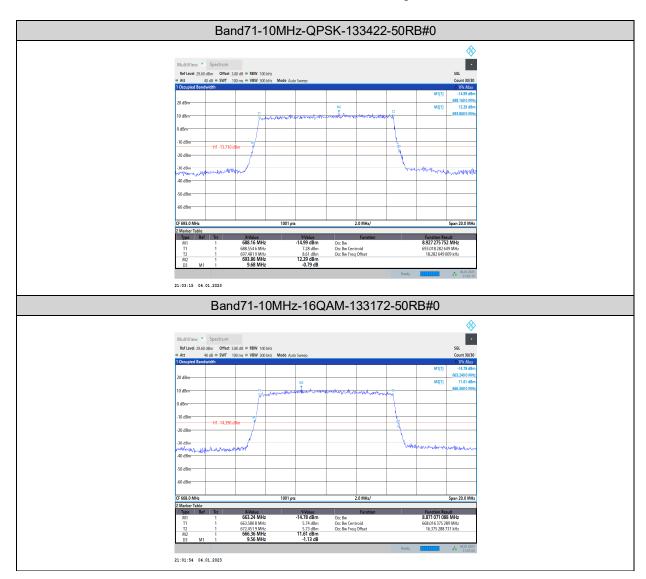
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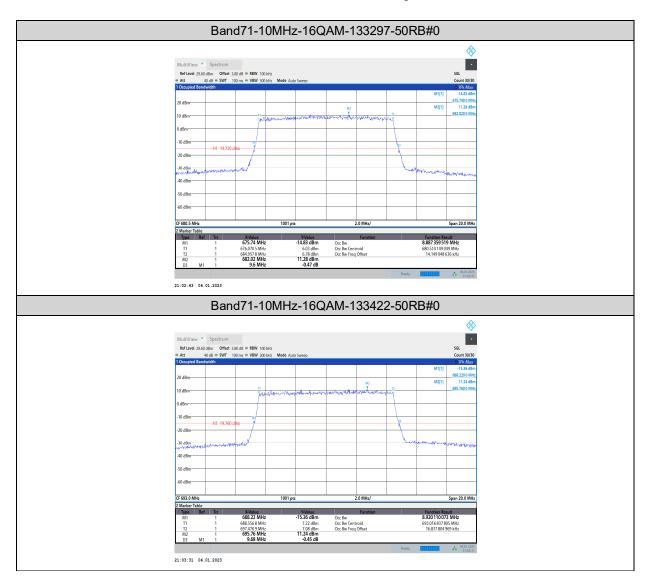
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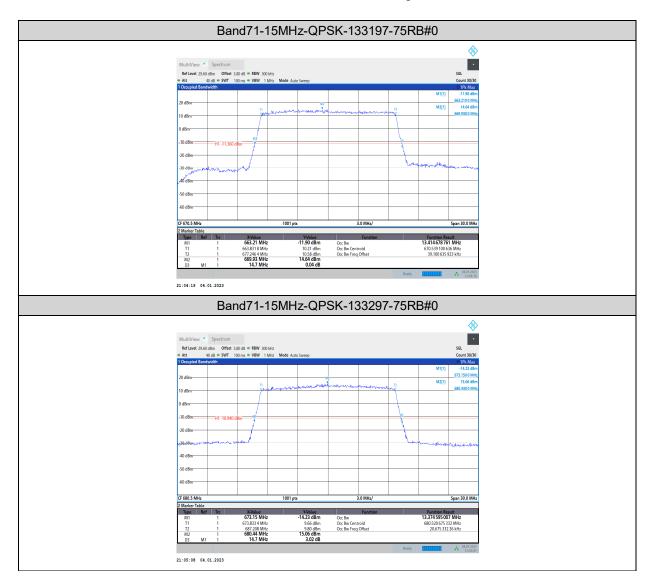
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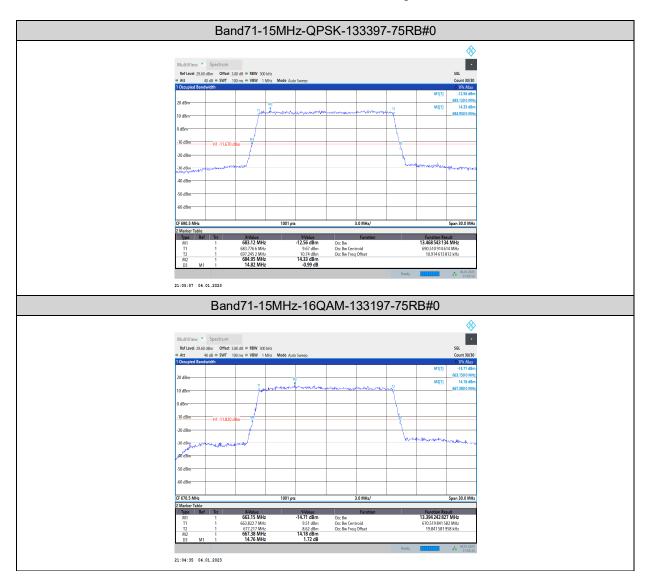
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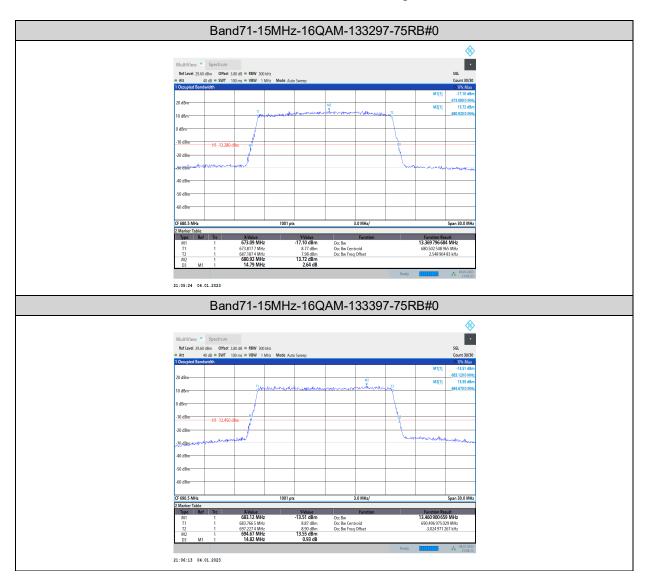
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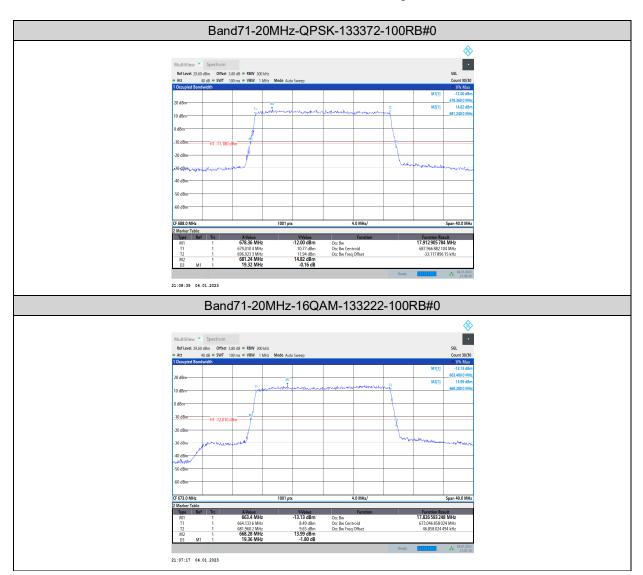
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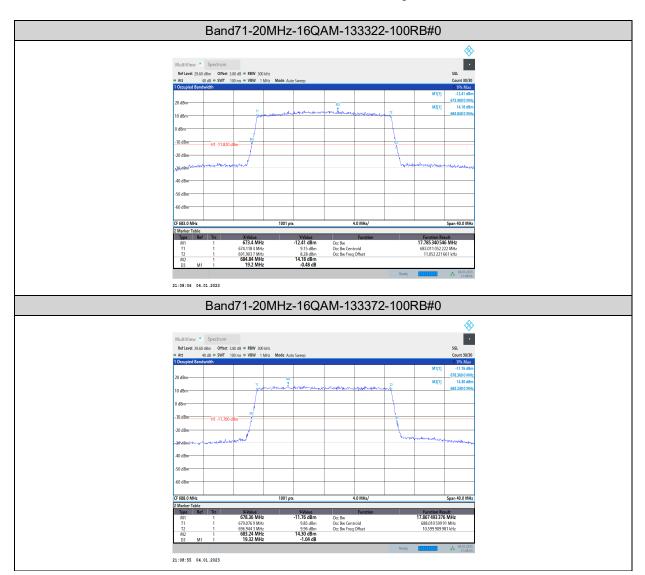
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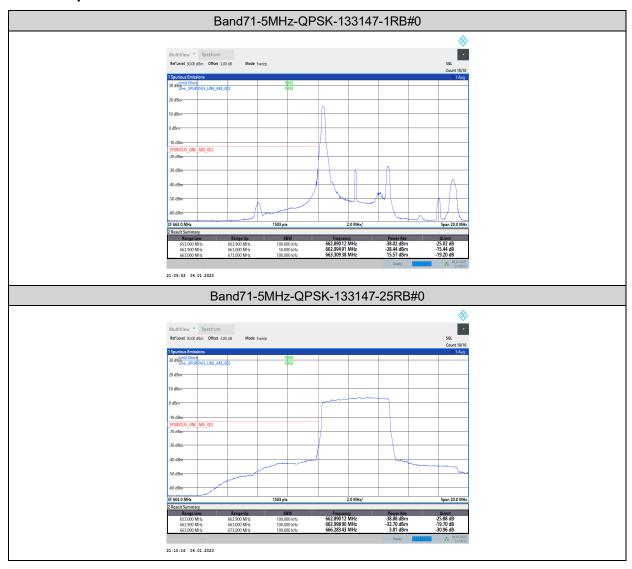
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#### **Band Edge**

#### **Test Graphs**





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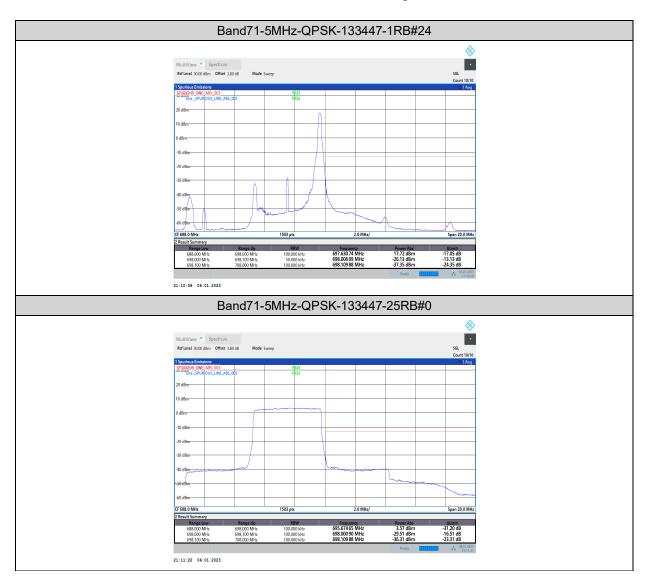
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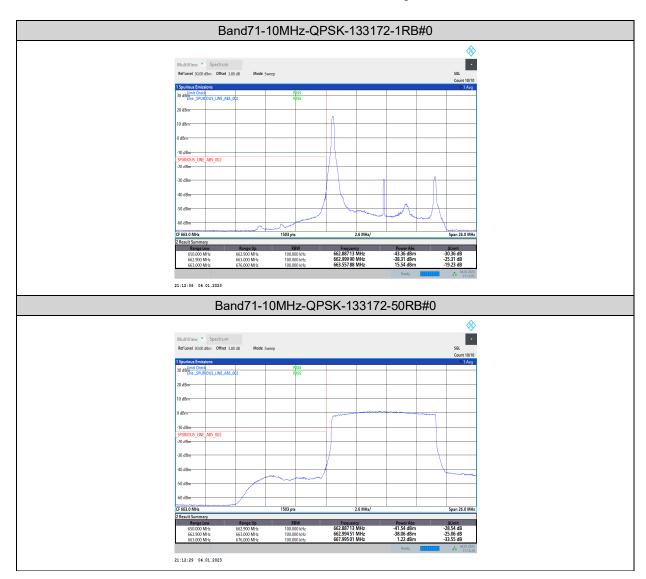
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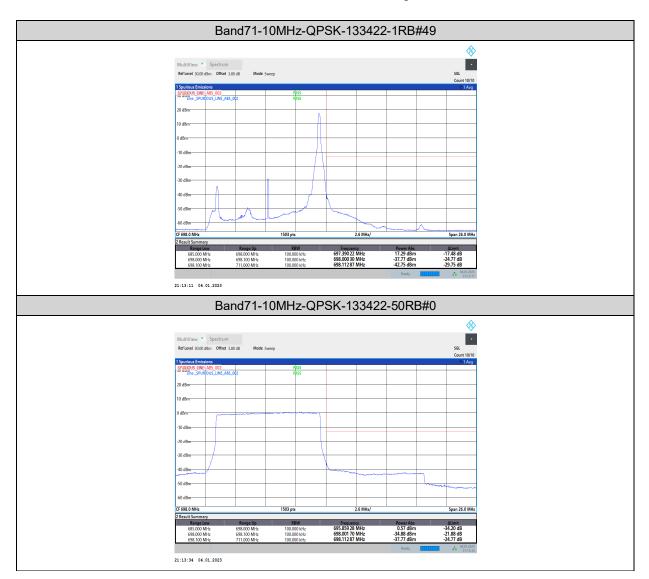
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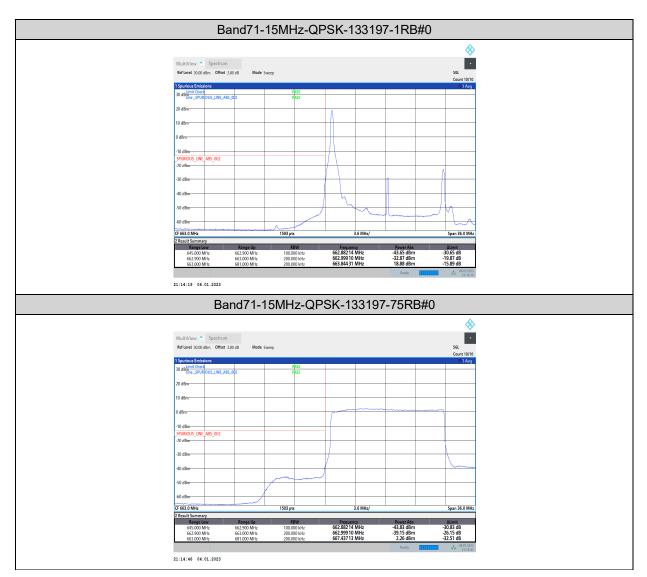
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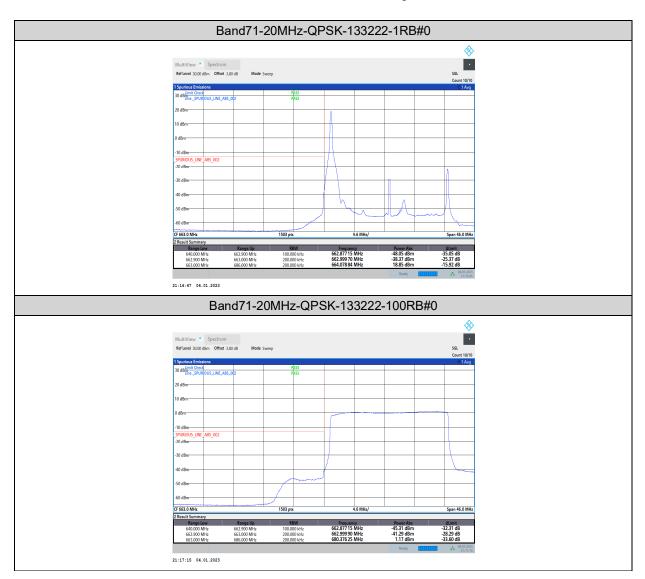
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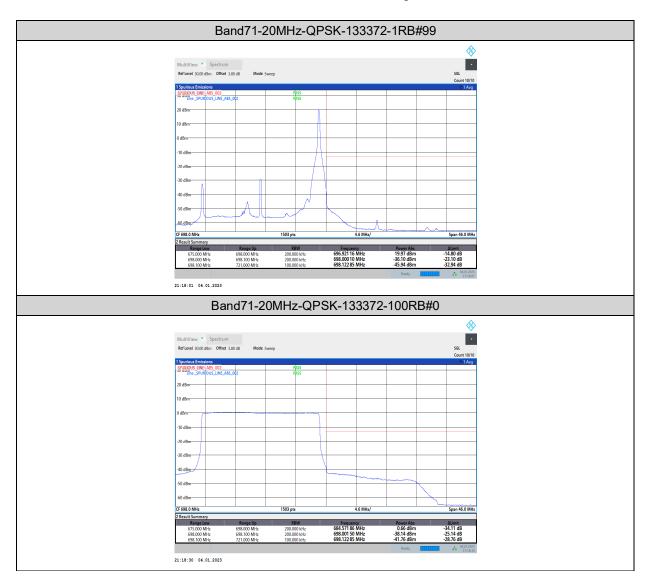
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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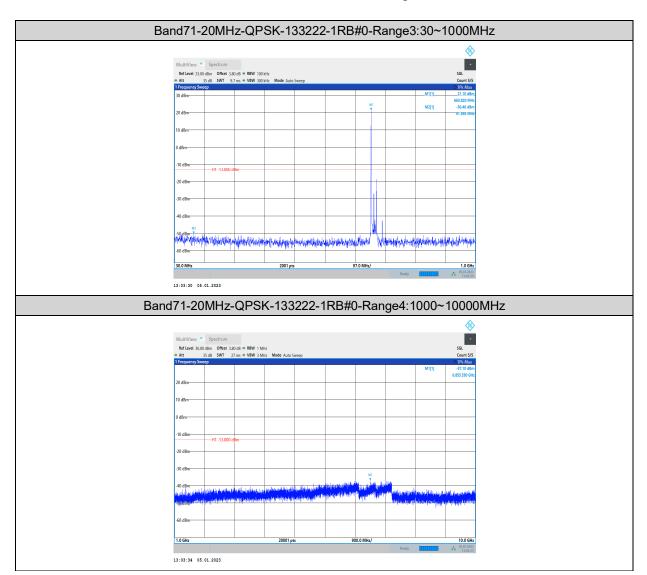
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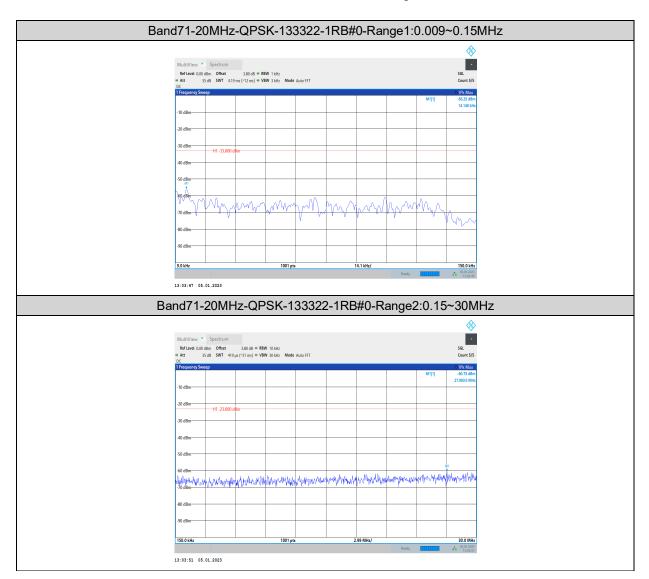
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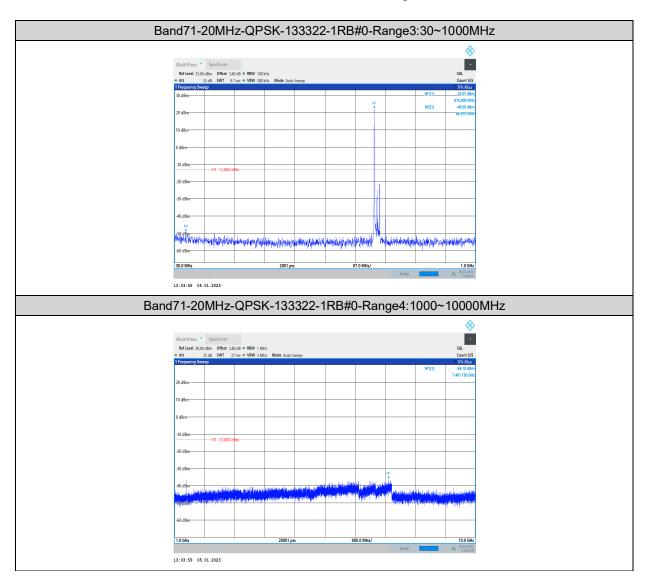
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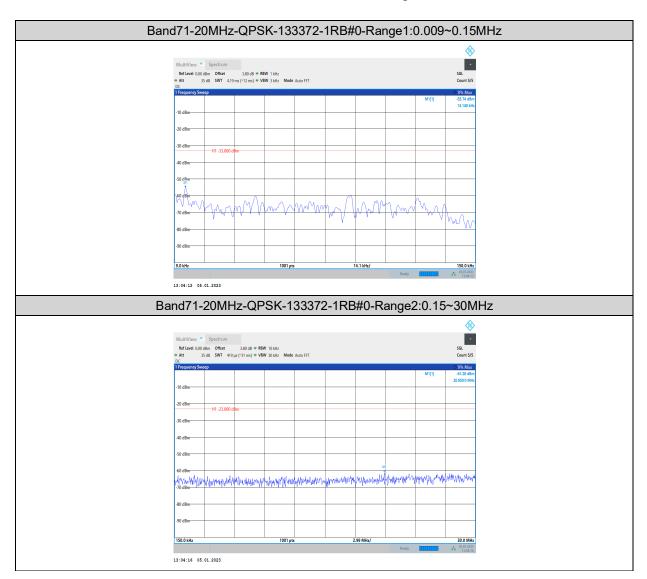
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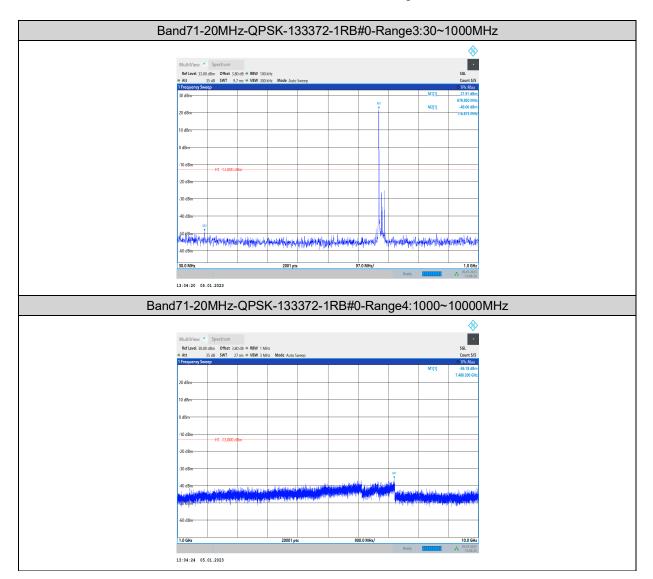
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中国・苏州・中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86–512) 62992980 t (86–512) 62992980



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

Test Band = LTE Band71\_ TM1
Test Channel = Low

Final	Final Data List											
NO	Frequency	Reading	Factor	AFEID/1	Level	Limit	Margin	Height	Angle	Delegite		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1328.1800	43.39	-48.09	25.61	-74.35	-13.00	61.35	156	159	Horizontal		
2	1992.2700	42.41	-47.91	26.60	-74.17	-13.00	61.17	258	344	Horizontal		
3	2656.3600	42.40	-47.00	28.21	-71.65	-13.00	58.65	149	352	Horizontal		
4	3320.4500	42.29	-46.65	29.53	-70.09	-13.00	57.09	126	357	Horizontal		
5	3984.5400	41.54	-46.20	30.76	-69.16	-13.00	56.16	255	105	Horizontal		
6	4648.6300	40.09	-45.79	31.86	-69.11	-13.00	56.11	178	213	Horizontal		

Final	Final Data List											
NO	Frequency	Reading	Factor	V [[4D/==]	Level	Limit	Margin	Height	Angle	Dalawita		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1328.1800	43.65	-48.09	25.61	-74.09	-13.00	61.09	236	8	Vertical		
2	1992.2700	42.99	-47.91	26.60	-73.59	-13.00	60.59	256	25	Vertical		
3	2656.3600	42.24	-47.00	28.21	-71.81	-13.00	58.81	144	162	Vertical		
4	3320.4500	42.36	-46.65	29.53	-70.02	-13.00	57.02	198	0	Vertical		
5	3984.5400	41.04	-46.20	30.76	-69.66	-13.00	56.66	145	280	Vertical		
6	4648.6300	40.47	-45.79	31.86	-68.73	-13.00	55.73	281	3	Vertical		



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t (86–512) 62992980 t (86–512) 62992980



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#### Test Band = LTE Band71\_ TM1 Test Channel = Mid

Final	Final Data List											
NO	Frequency	Reading	Factor	AFEID/1	Level	Limit	Margin	Height	Angle	Delevite		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1348.1800	43.73	-48.07	25.61	-73.98	-13.00	60.98	211	292	Horizontal		
2	2022.2700	42.18	-47.86	26.72	-74.22	-13.00	61.22	145	197	Horizontal		
3	2696.3600	41.69	-47.05	28.28	-72.33	-13.00	59.33	159	38	Horizontal		
4	3370.4500	41.92	-46.58	29.47	-70.45	-13.00	57.45	168	342	Horizontal		
5	4044.5400	40.88	-46.07	30.87	-69.58	-13.00	56.58	182	360	Horizontal		
6	4718.6300	40.83	-45.77	32.07	-68.13	-13.00	55.13	170	132	Horizontal		

Final Data List											
NO	Frequency	Reading	Factor	V [[4D/]	Level	Limit	Margin	Height	Angle	Dalavita	
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity	
1	1348.1800	43.51	-48.07	25.61	-74.20	-13.00	61.20	221	58	Vertical	
2	2022.2700	42.60	-47.86	26.72	-73.80	-13.00	60.80	142	110	Vertical	
3	2696.3600	42.05	-47.05	28.28	-71.97	-13.00	58.97	184	84	Vertical	
4	3370.4500	41.36	-46.58	29.47	-71.01	-13.00	58.01	165	110	Vertical	
5	4044.5400	40.27	-46.07	30.87	-70.19	-13.00	57.19	213	243	Vertical	
6	4718.6300	40.71	-45.77	32.07	-68.25	-13.00	55.25	291	307	Vertical	



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t (86-512) 62992980 www.sgsgroup.com.cn t (86-512) 62992980 sgs.china@sgs.com



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# Test Band = LTE Band71\_ TM1 Test Channel = High

Final	Data List									
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	1358.1800	44.02	-48.05	25.61	-73.68	-13.00	60.68	114	118	Horizontal
2	2037.2700	43.61	-47.83	26.77	-72.71	-13.00	59.71	251	265	Horizontal
3	2716.3600	42.69	-47.03	28.32	-71.28	-13.00	58.28	223	4	Horizontal
4	3395.4500	41.09	-46.55	29.44	-71.28	-13.00	58.28	230	360	Horizontal
5	4074.5400	40.80	-45.98	30.91	-69.52	-13.00	56.52	180	212	Horizontal
6	4753.6300	40.47	-45.71	32.18	-68.33	-13.00	55.33	173	265	Horizontal

Final Data List										
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
	[MHz]	[dBµV]	[dB]	AF[db/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polanty
1	1358.1800	44.03	-48.05	25.61	-73.67	-13.00	60.67	226	1	Vertical
2	2037.2700	43.39	-47.83	26.77	-72.93	-13.00	59.93	154	334	Vertical
3	2716.3600	42.45	-47.03	28.32	-71.52	-13.00	58.52	148	320	Vertical
4	3395.4500	41.62	-46.55	29.44	-70.75	-13.00	57.75	183	295	Vertical
5	4074.5400	40.95	-45.98	30.91	-69.37	-13.00	56.37	219	281	Vertical
6	4753.6300	40.16	-45.71	32.18	-68.64	-13.00	55.64	145	356	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level



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t (86-512) 62992980 t (86-512) 62992980



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#### **Frequency Stability**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	VL	NT	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-0.30	-0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-0.40	-0.000586	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-0.30	-0.000439	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-1.10	-0.001611	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-0.70	-0.001025	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-1.50	-0.002196	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-0.40	-0.000586	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	0.20	0.000293	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	0.60	0.000878	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	0.00	0.000000	PASS

---End of Attachment---



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