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Appendix B.12

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	22.89	18.94	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.08	19.13	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.75	18.80	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.89	17.94	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.49	18.54	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.74	18.79	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.43	18.48	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.63	17.68	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.63	18.68	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.91	18.96	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.67	18.72	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.77	17.82	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.14	18.19	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.34	18.39	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.94	17.99	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.89	16.94	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.81	17.86	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.97	18.02	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	21.74	17.79	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.61	16.66	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.93	17.98	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	22.19	18.24	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.93	17.98	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.77	16.82	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.95	19.00	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.96	19.01	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.63	18.68	34.77	PASS



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					Page:	3 01 3	JU	
Band71	10MHz	QPSK	133172	50RB#0	21.93	17.98	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.61	18.66	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.70	18.75	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.52	18.57	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.69	17.74	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.63	18.68	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.82	18.87	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.74	18.79	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.74	17.79	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.17	18.22	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	22.26	18.31	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.81	17.86	34.77	PASS
Band71	10MHz	16QAM	133172	50RB#0	20.93	16.98	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.79	17.84	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.86	17.91	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	21.79	17.84	34.77	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.66	16.71	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.93	17.98	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	22.04	18.09	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.92	17.97	34.77	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.73	16.78	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.84	18.89	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.76	18.81	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.48	18.53	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.79	17.84	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.57	18.62	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.60	18.65	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.48	18.53	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.67	17.72	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.43	18.48	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.68	18.73	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.69	18.74	34.77	PASS



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					Page:	4 01 3)U	
Band71	15MHz	QPSK	133397	75RB#0	21.67	17.72	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.06	18.11	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	22.05	18.10	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.66	17.71	34.77	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.80	16.85	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.73	17.78	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.83	17.88	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	21.81	17.86	34.77	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.65	16.70	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.65	17.70	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.97	18.02	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.89	17.94	34.77	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.66	16.71	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.66	18.71	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.78	18.83	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.25	18.30	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.68	17.73	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.38	18.43	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.69	18.74	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.40	18.45	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.76	17.81	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.31	18.36	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.74	18.79	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.49	18.54	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.75	17.80	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.78	17.83	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.05	18.10	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.57	17.62	34.77	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.66	16.71	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.70	17.75	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.90	17.95	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	21.76	17.81	34.77	PASS



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Band71	20MHz	16QAM	133322	100RB#0	20.73	16.78	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.59	17.64	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.01	18.06	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.63	17.68	34.77	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.71	16.76	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	5.36	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.44	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.46	13	PASS
Band71	20MHz	16QAM	133222	100RB#0	6.10	13	PASS
Band71	20MHz	16QAM	133322	100RB#0	6.12	13	PASS
Band71	20MHz	16QAM	133372	100RB#0	6.16	13	PASS



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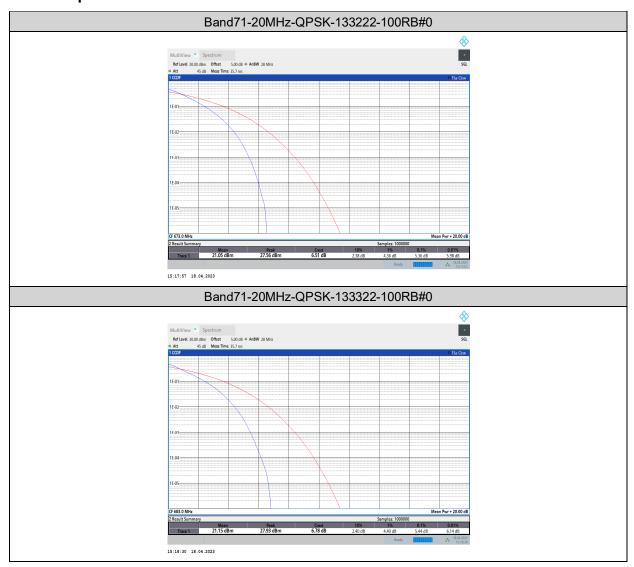
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Test Graphs





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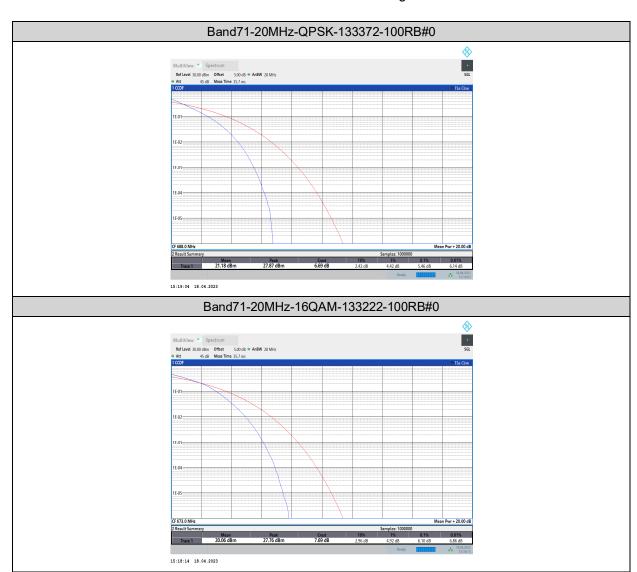
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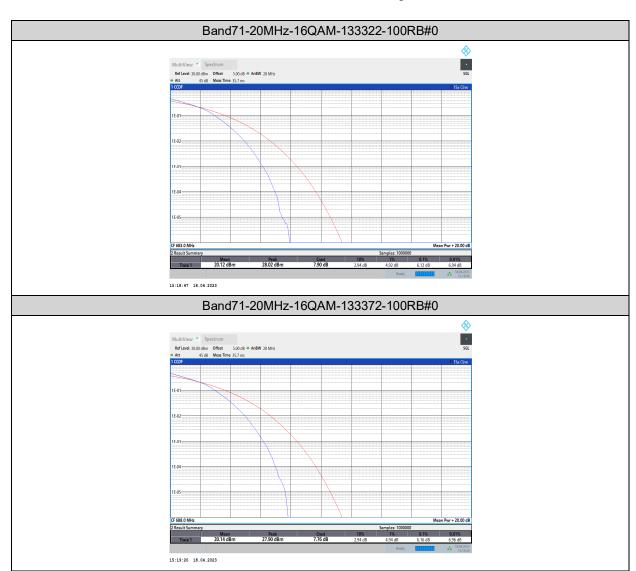
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Modulation Characteristics

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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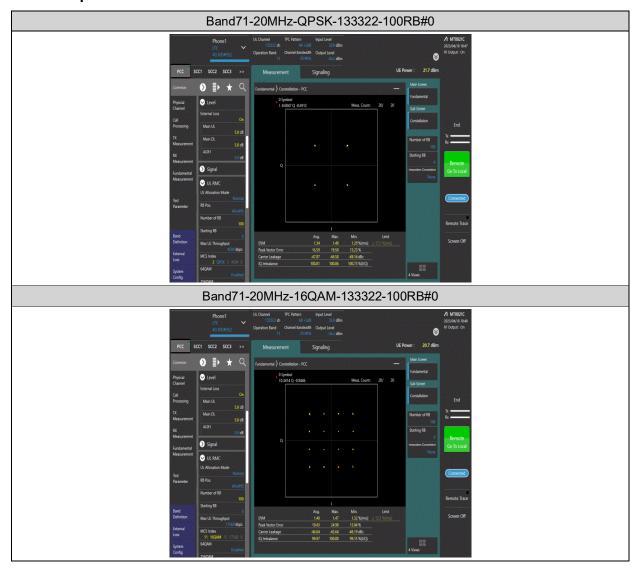


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Test Graphs





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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	4.473	5.01	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.474	5.03	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.474	5.02	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.472	5.04	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.472	5.05	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.470	5.04	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.947	9.88	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.945	9.82	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.923	9.82	PASS
Band71	10MHz	16QAM	133172	50RB#0	8.926	9.82	PASS
Band71	10MHz	16QAM	133297	50RB#0	8.923	9.82	PASS
Band71	10MHz	16QAM	133422	50RB#0	8.924	9.80	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.493	15.12	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.491	15.03	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.481	15.06	PASS
Band71	15MHz	16QAM	133197	75RB#0	13.482	15.21	PASS
Band71	15MHz	16QAM	133297	75RB#0	13.490	15.09	PASS
Band71	15MHz	16QAM	133397	75RB#0	13.473	15.18	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.920	19.72	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.946	19.72	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.958	19.60	PASS
Band71	20MHz	16QAM	133222	100RB#0	17.898	19.68	PASS
Band71	20MHz	16QAM	133322	100RB#0	17.929	19.72	PASS
Band71	20MHz	16QAM	133372	100RB#0	17.936	19.64	PASS



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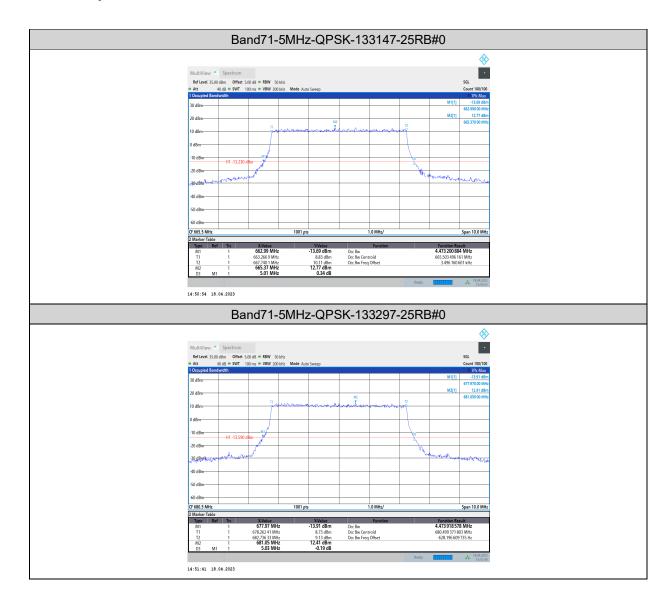


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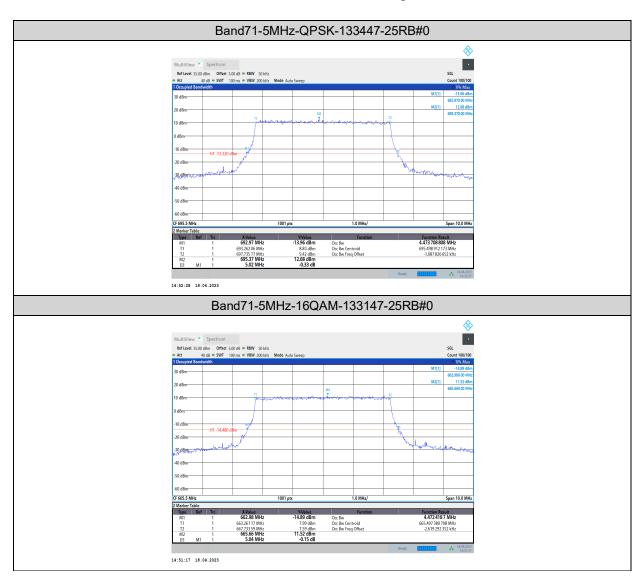
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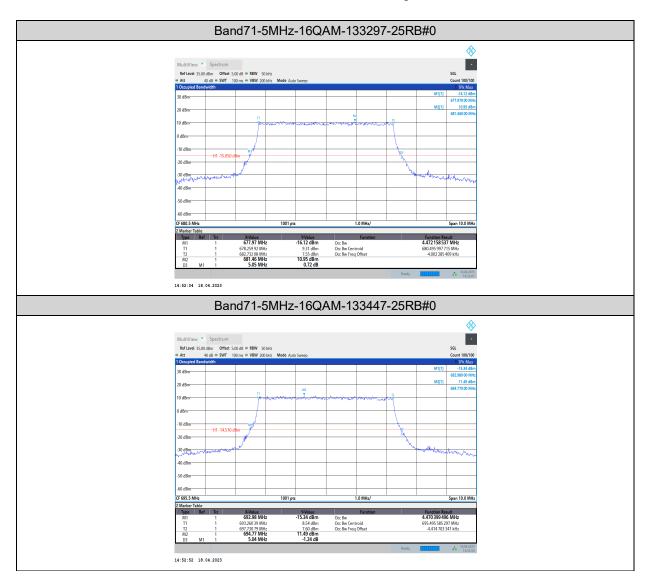
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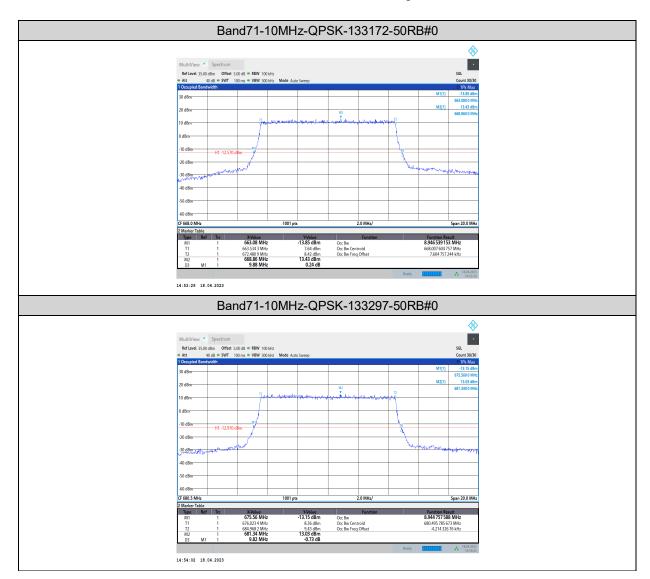
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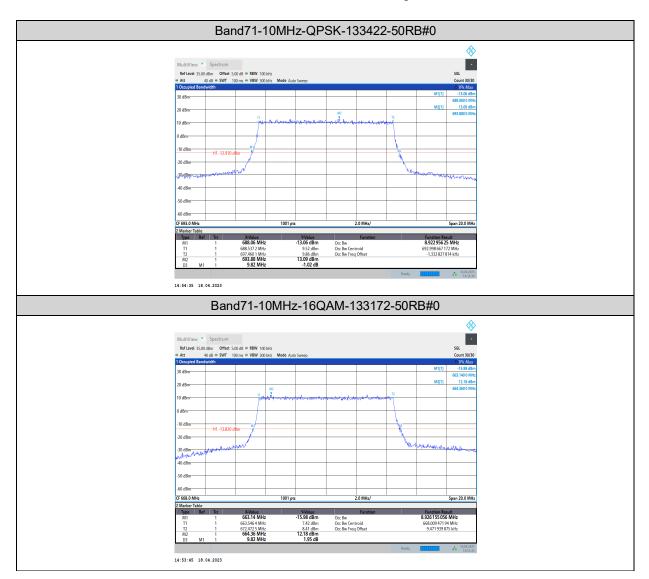
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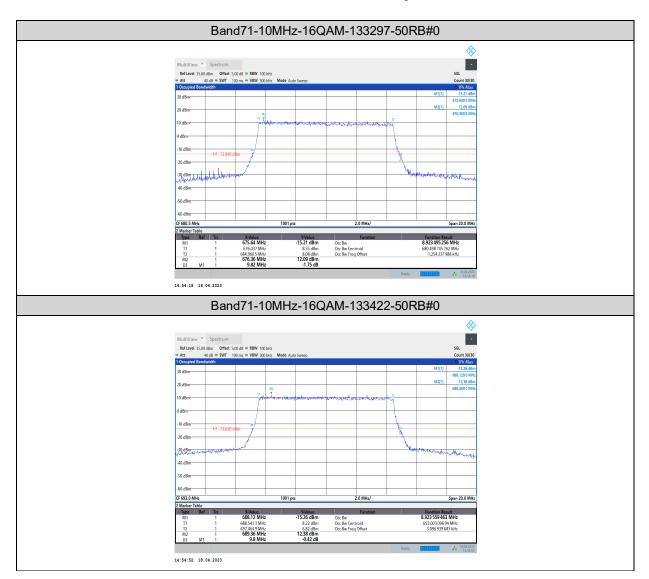
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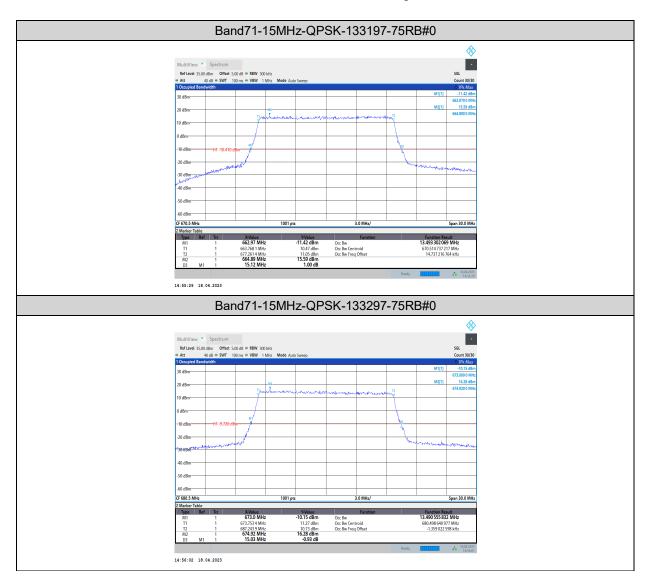
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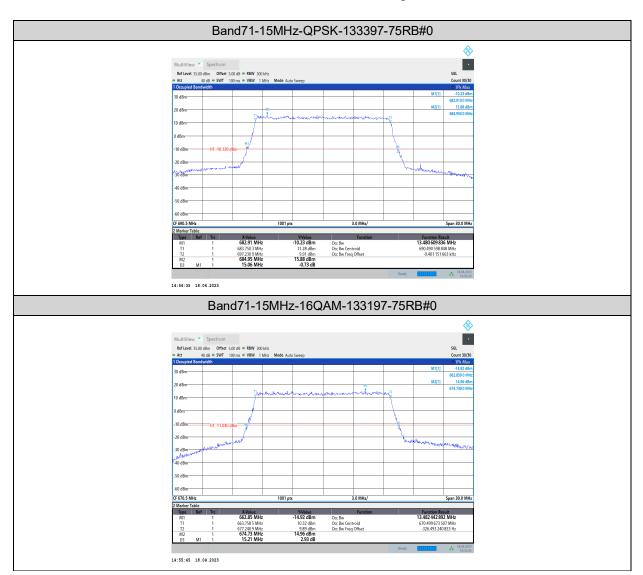
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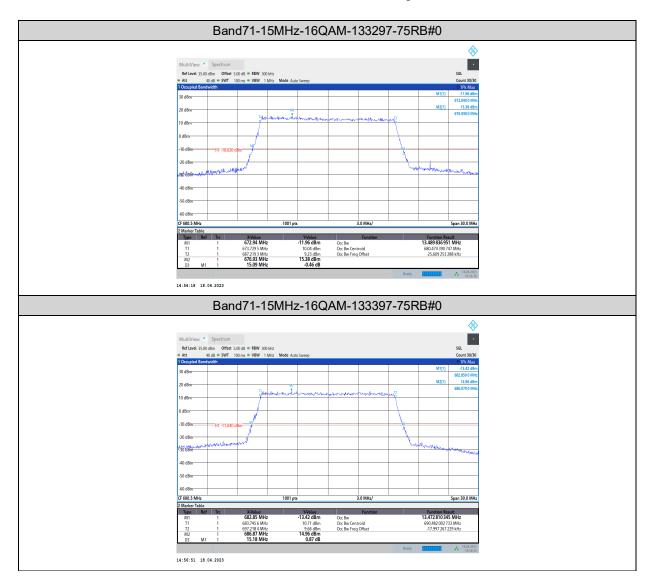
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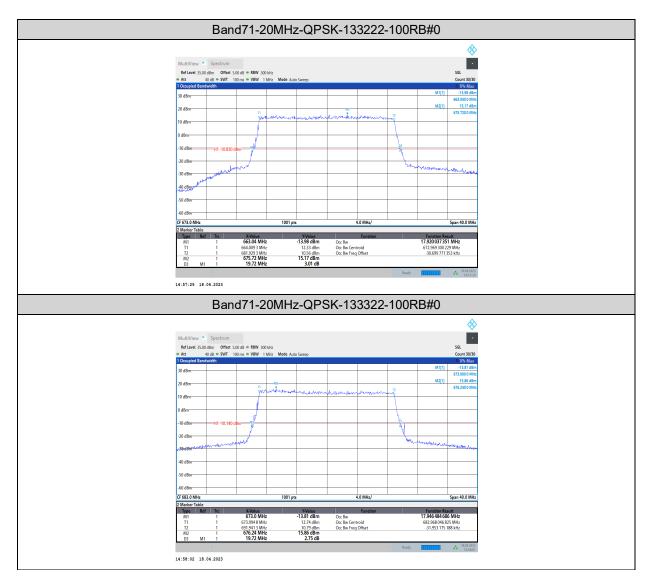
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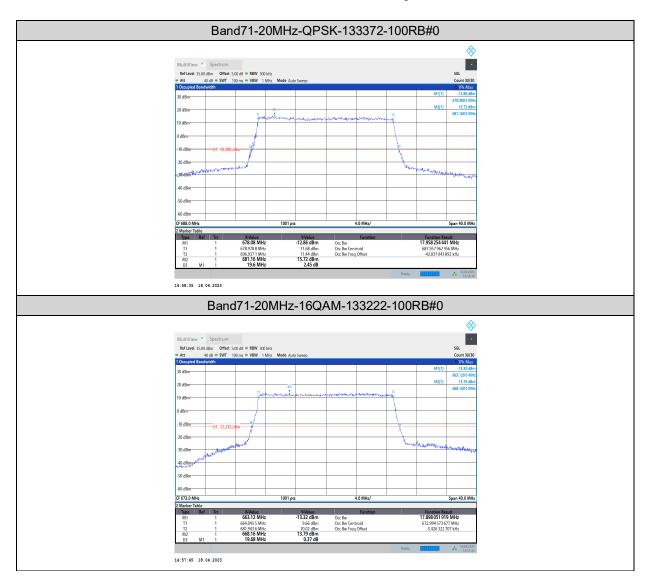
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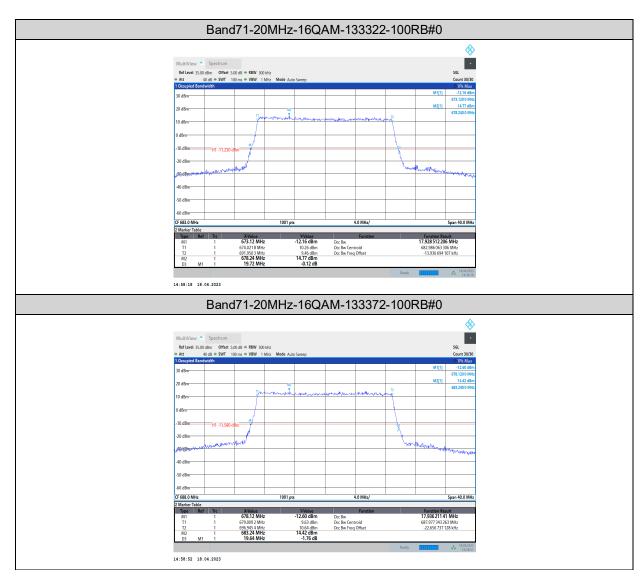
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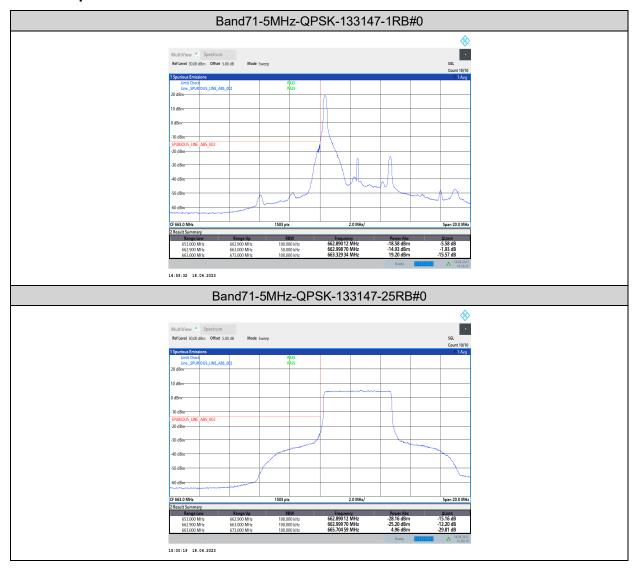
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Band Edge

Test Graphs





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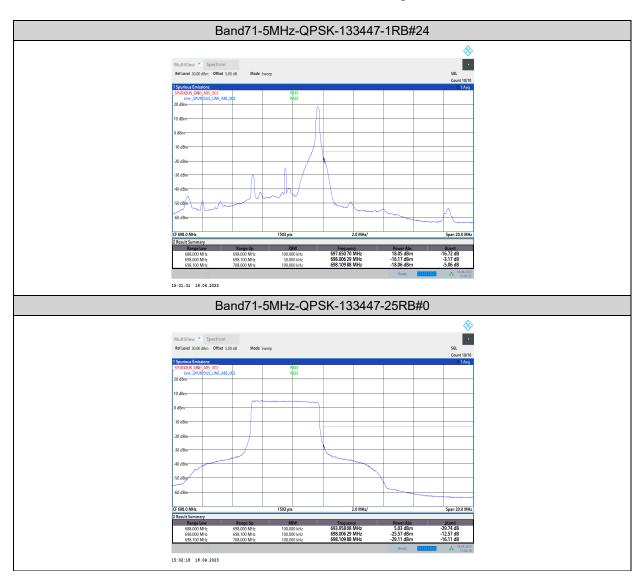
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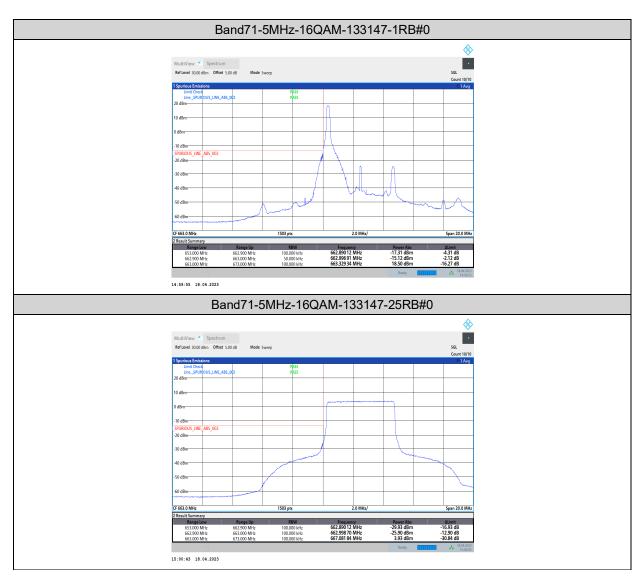
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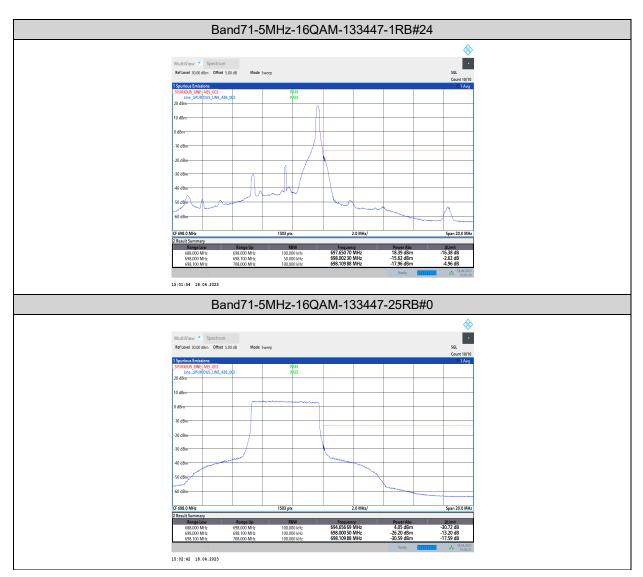
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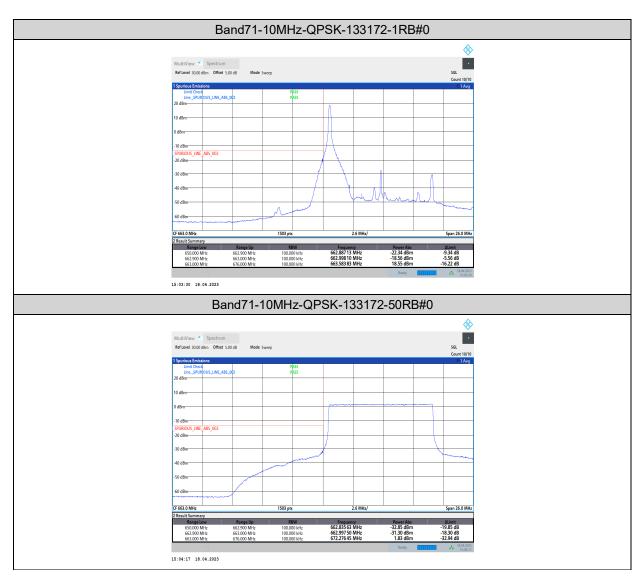
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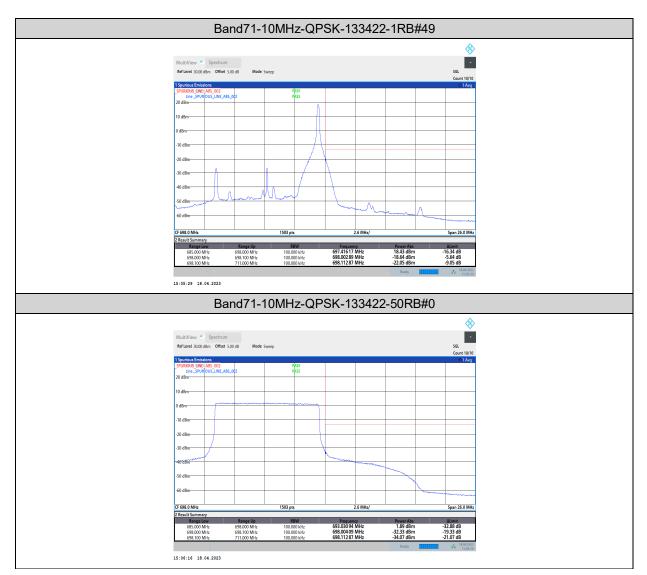
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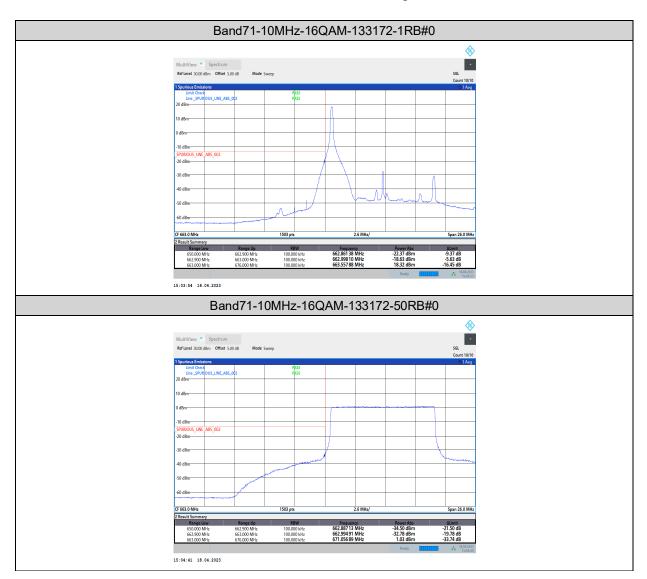
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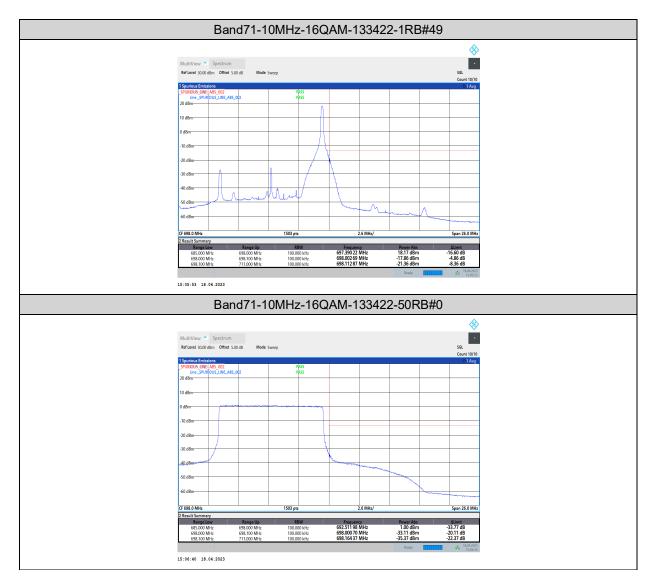
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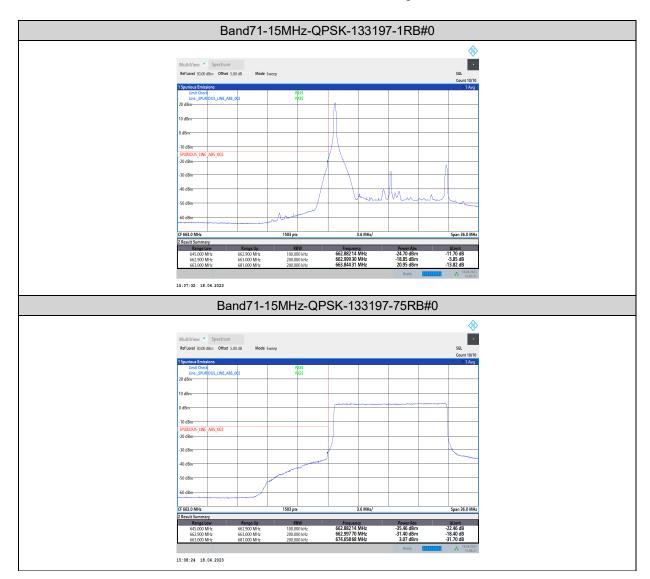
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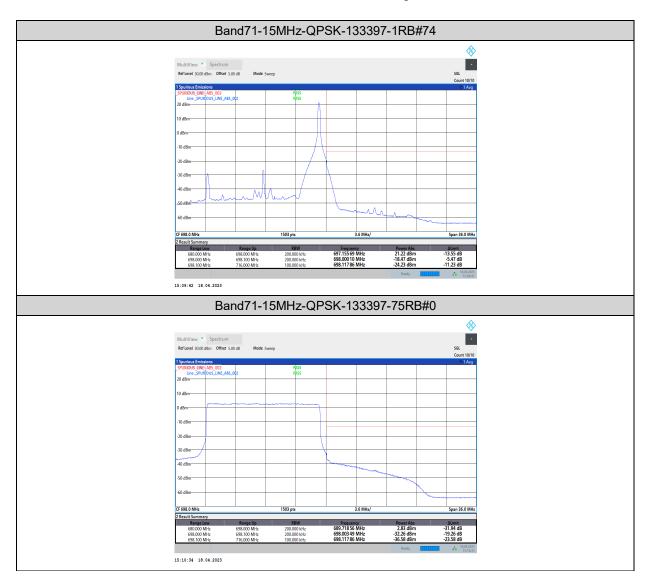
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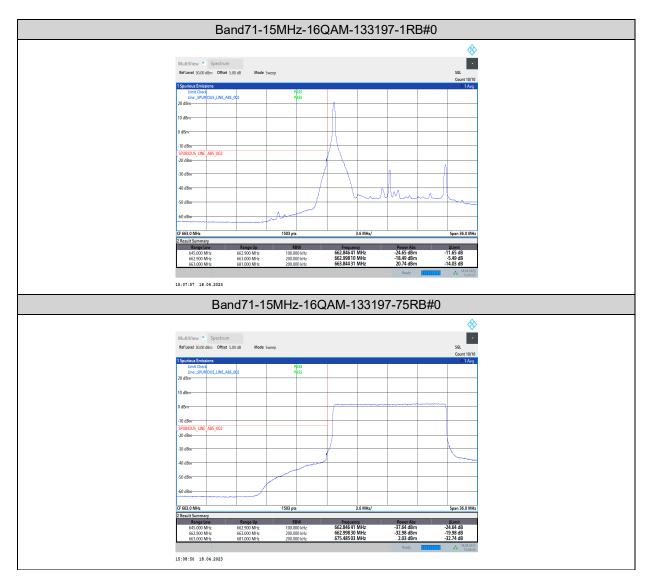
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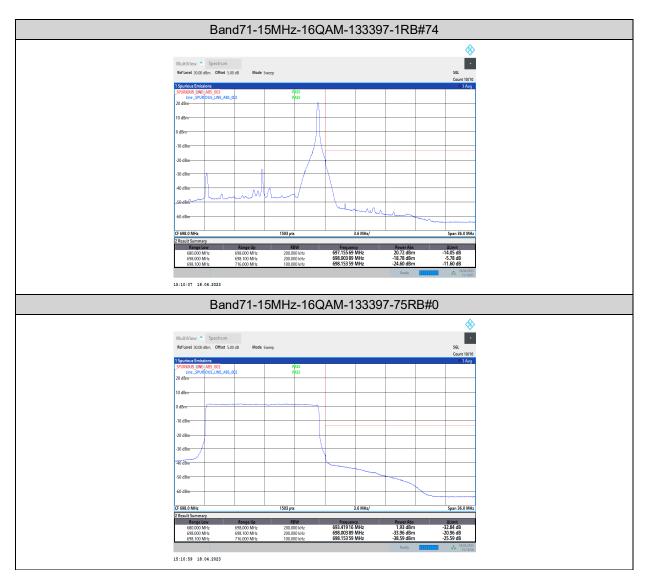
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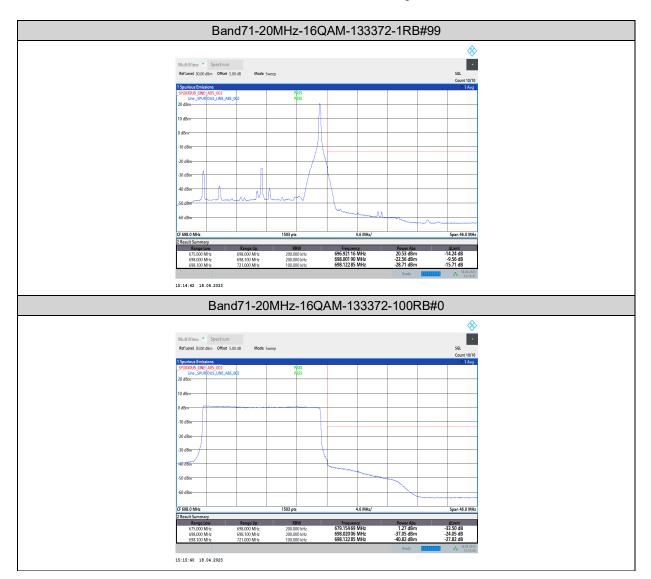
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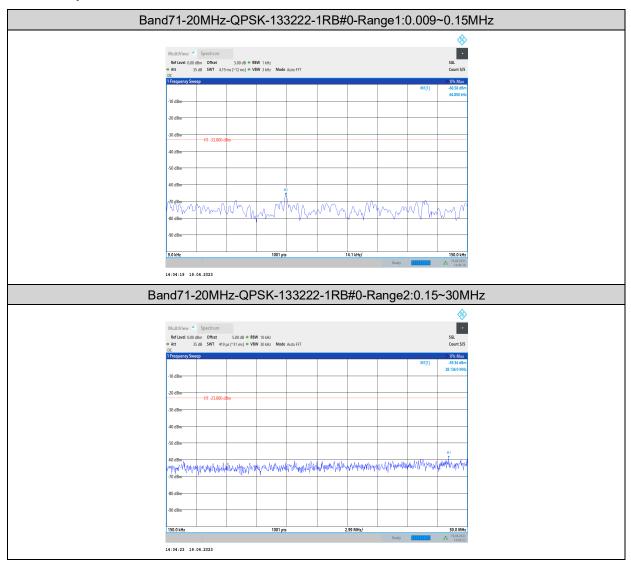
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Conducted Spurious Emission

Test Graphs





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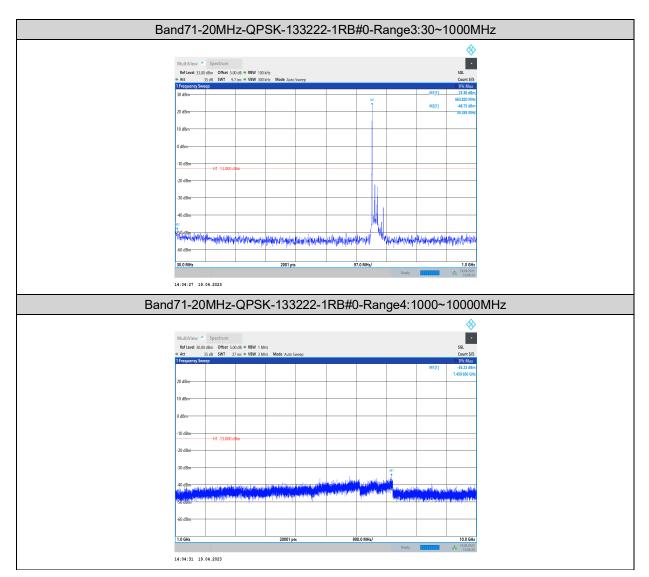
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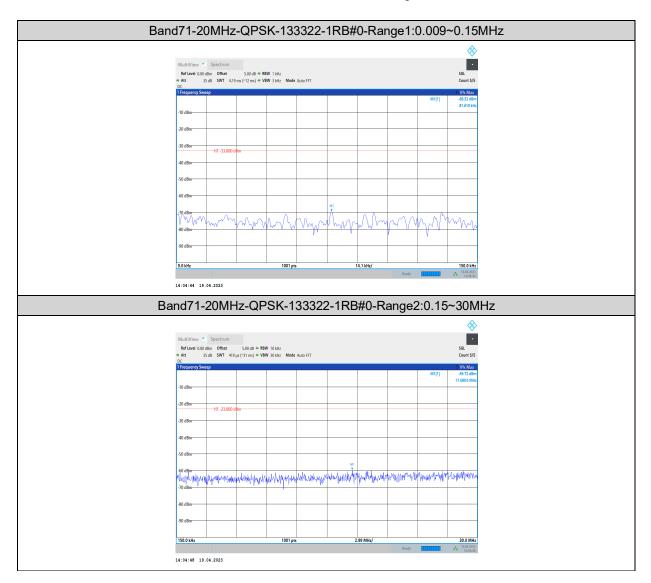
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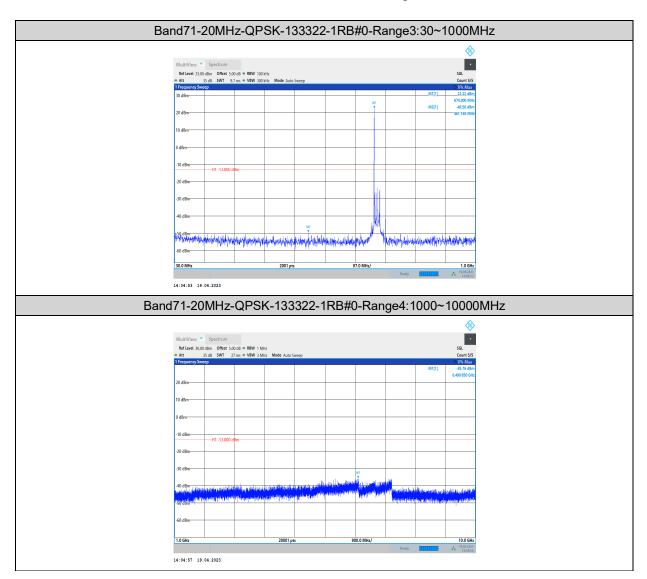
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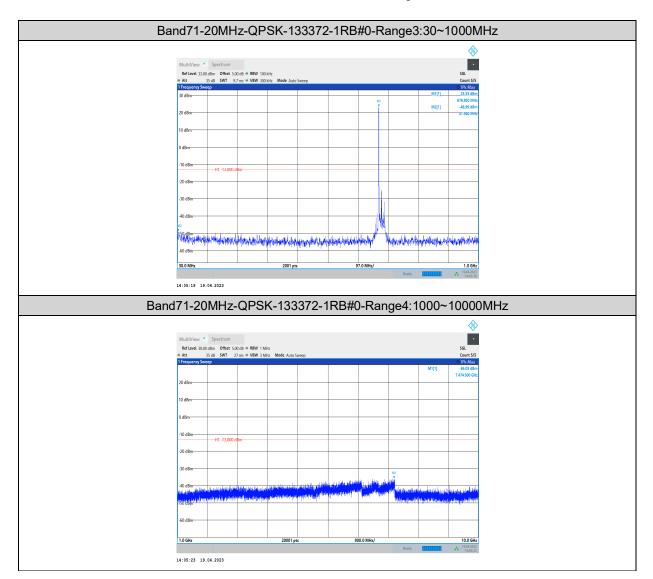
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Field Strength of Spurious Radiation

Test Band = LTE_B71 _20MHz _TM1
Test Channel = LCH

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle			
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1328.1237	60.56	-53.89	25.77	-62.82	-13.00	49.82	196	87	Horizontal		
2	1992.3426	77.98	-52.64	26.69	-43.23	-13.00	30.23	254	94	Horizontal		
3	3129.2037	54.08	-50.19	30.22	-61.15	-13.00	48.15	163	194	Horizontal		
4	5078.4022	52.12	-44.30	33.46	-53.98	-13.00	40.98	225	353	Horizontal		
5	7440.3269	50.66	-42.78	36.72	-50.66	-13.00	37.66	189	320	Horizontal		
6	9905.3687	48.98	-39.73	39.07	-46.94	-13.00	33.94	263	333	Horizontal		

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5.1."		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1517.3862	55.47	-53.37	25.70	-67.46	-13.00	54.46	168	134	Vertical		
2	1992.3426	70.93	-52.64	26.69	-50.28	-13.00	37.28	254	247	Vertical		
3	2572.4735	56.55	-51.08	28.34	-61.45	-13.00	48.45	147	180	Vertical		
4	4374.325	52.96	-46.72	32.05	-56.97	-13.00	43.97	256	353	Vertical		
5	6660.9046	51.55	-43.99	36.03	-51.67	-13.00	38.67	325	313	Vertical		
6	9045.2013	49.27	-40.15	38.71	-47.43	-13.00	34.43	189	2	Vertical		



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Test Band = LTE_B71 _20MHz _TM1 **Test Channel = MCH**

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5.1."		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1347.9242	63.32	-53.73	25.89	-59.78	-13.00	46.78	189	67	Horizontal		
2	2022.1721	75.12	-52.45	26.93	-45.66	-13.00	32.66	254	86	Horizontal		
3	2541.6155	58.22	-50.95	28.25	-59.74	-13.00	46.74	196	352	Horizontal		
4	4374.5821	52.59	-46.72	32.05	-57.34	-13.00	44.34	263	41	Horizontal		
5	5520.9577	52.47	-43.28	33.14	-52.93	-13.00	39.93	325	14	Horizontal		
6	9027.9722	49.52	-40.42	38.74	-47.42	-13.00	34.42	215	345	Horizontal		

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle			
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1348.1814	56.54	-53.72	25.89	-66.55	-13.00	53.55	226	298	Vertical		
2	2022.4292	68.97	-52.44	26.93	-51.80	-13.00	38.80	325	285	Vertical		
3	2543.4155	60.95	-50.94	28.26	-56.99	-13.00	43.99	214	278	Vertical		
4	3657.9045	53.89	-49.23	30.38	-60.22	-13.00	47.22	189	298	Vertical		
5	6952.7701	50.89	-43.96	36.41	-51.92	-13.00	38.92	256	188	Vertical		
6	9719.7063	48.20	-39.12	38.74	-47.44	-13.00	34.44	320	318	Vertical		



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Test Band = LTE_B71 _20MHz _TM1 Test Channel = HCH

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1358.2102	57.66	-53.71	25.88	-65.43	-13.00	52.43	163	54	Horizontal		
2	2037.3439	75.86	-52.25	27.02	-44.63	-13.00	31.63	254	100	Horizontal		
3	2543.9298	59.54	-50.94	28.26	-58.40	-13.00	45.40	263	305	Horizontal		
4	3822.4806	53.21	-48.19	30.46	-59.78	-13.00	46.78	226	305	Horizontal		
5	5715.1061	51.73	-43.65	33.62	-53.56	-13.00	40.56	325	325	Horizontal		
6	9876.3108	48.75	-39.73	38.96	-47.28	-13.00	34.28	221	252	Horizontal		

Final	Final Data List											
NO	Freq.	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height[Angle	5		
	[MHz]	[dBµV]	[dB]		[dBm]	[dBm]	[dB]	cm]	[°]	Polarity		
1	1358.2102	57.32	-53.71	25.88	-65.77	-13.00	52.77	265	160	Vertical		
2	2037.6011	69.02	-52.25	27.03	-51.46	-13.00	38.46	332	134	Vertical		
3	2543.4155	58.12	-50.94	28.26	-59.82	-13.00	46.82	254	15	Vertical		
4	3831.4809	54.36	-48.18	30.44	-58.64	-13.00	45.64	148	265	Vertical		
5	6714.1347	50.64	-43.65	35.91	-52.36	-13.00	39.36	263	81	Vertical		
6	9582.1309	48.61	-39.53	39.16	-47.02	-13.00	34.02	260	312	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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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	-9.80	-0.014348	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-1.30	-0.001903	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-8.70	-0.012738	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-10.20	-0.014934	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-5.00	-0.007321	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-8.60	-0.012592	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-7.50	-0.010981	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-8.00	-0.011713	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-9.60	-0.014056	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-5.00	-0.007321	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-13.00	-0.019034	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-2.20	-0.003221	PASS

---End of Attachment---



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