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Appendix B.11

LTE Band 25



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band25	1.4MHz	QPSK	26047	1RB#0	23.91	25.50	33.00	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	23.91	25.50	33.00	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	23.91	25.50	33.00	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	22.89	24.48	33.00	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	23.84	25.43	33.00	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	23.88	25.47	33.00	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	23.76	25.35	33.00	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	22.75	24.34	33.00	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	23.93	25.52	33.00	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	23.92	25.51	33.00	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	23.85	25.44	33.00	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	22.98	24.57	33.00	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	23.25	24.84	33.00	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	23.32	24.91	33.00	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	23.13	24.72	33.00	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	21.85	23.44	33.00	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	23.13	24.72	33.00	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	23.21	24.80	33.00	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	22.97	24.56	33.00	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	21.87	23.46	33.00	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	23.16	24.75	33.00	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	23.45	25.04	33.00	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	23.14	24.73	33.00	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	22.02	23.61	33.00	PASS
Band25	3MHz	QPSK	26055	1RB#0	24.04	25.63	33.00	PASS
Band25	3MHz	QPSK	26055	1RB#8	24.00	25.59	33.00	PASS
Band25	3MHz	QPSK	26055	1RB#14	23.97	25.56	33.00	PASS



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Band25	3MHz	QPSK	26055	15RB#0	23.01	24.60	33.00	PASS
Band25	3MHz	QPSK	26365	1RB#0	23.84	25.43	33.00	PASS
Band25	3MHz	QPSK	26365	1RB#8	23.79	25.38	33.00	PASS
Band25	3MHz	QPSK	26365	1RB#14	23.73	25.32	33.00	PASS
Band25	3MHz	QPSK	26365	15RB#0	22.84	24.43	33.00	PASS
Band25	3MHz	QPSK	26675	1RB#0	23.97	25.56	33.00	PASS
Band25	3MHz	QPSK	26675	1RB#8	23.99	25.58	33.00	PASS
Band25	3MHz	QPSK	26675	1RB#14	24.00	25.59	33.00	PASS
Band25	3MHz	QPSK	26675	15RB#0	23.01	24.60	33.00	PASS
Band25	3MHz	16QAM	26055	1RB#0	23.40	24.99	33.00	PASS
Band25	3MHz	16QAM	26055	1RB#8	23.24	24.83	33.00	PASS
Band25	3MHz	16QAM	26055	1RB#14	23.27	24.86	33.00	PASS
Band25	3MHz	16QAM	26055	15RB#0	22.00	23.59	33.00	PASS
Band25	3MHz	16QAM	26365	1RB#0	23.16	24.75	33.00	PASS
Band25	3MHz	16QAM	26365	1RB#8	23.21	24.80	33.00	PASS
Band25	3MHz	16QAM	26365	1RB#14	23.12	24.71	33.00	PASS
Band25	3MHz	16QAM	26365	15RB#0	21.94	23.53	33.00	PASS
Band25	3MHz	16QAM	26675	1RB#0	23.25	24.84	33.00	PASS
Band25	3MHz	16QAM	26675	1RB#8	23.43	25.02	33.00	PASS
Band25	3MHz	16QAM	26675	1RB#14	23.30	24.89	33.00	PASS
Band25	3MHz	16QAM	26675	15RB#0	22.06	23.65	33.00	PASS
Band25	5MHz	QPSK	26065	1RB#0	24.06	25.65	33.00	PASS
Band25	5MHz	QPSK	26065	1RB#12	23.75	25.34	33.00	PASS
Band25	5MHz	QPSK	26065	1RB#24	23.94	25.53	33.00	PASS
Band25	5MHz	QPSK	26065	25RB#0	23.03	24.62	33.00	PASS
Band25	5MHz	QPSK	26365	1RB#0	23.92	25.51	33.00	PASS
Band25	5MHz	QPSK	26365	1RB#12	23.78	25.37	33.00	PASS
Band25	5MHz	QPSK	26365	1RB#24	23.99	25.58	33.00	PASS
Band25	5MHz	QPSK	26365	25RB#0	22.87	24.46	33.00	PASS
Band25	5MHz	QPSK	26665	1RB#0	24.19	25.78	33.00	PASS
Band25	5MHz	QPSK	26665	1RB#12	23.92	25.51	33.00	PASS
Band25	5MHz	QPSK	26665	1RB#24	23.97	25.56	33.00	PASS



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Band25	5MHz	QPSK	26665	25RB#0	23.10	24.69	33.00	PASS
Band25	5MHz	16QAM	26065	1RB#0	23.24	24.83	33.00	PASS
Band25	5MHz	16QAM	26065	1RB#12	23.27	24.86	33.00	PASS
Band25	5MHz	16QAM	26065	1RB#24	23.26	24.85	33.00	PASS
Band25	5MHz	16QAM	26065	25RB#0	21.91	23.50	33.00	PASS
Band25	5MHz	16QAM	26365	1RB#0	22.99	24.58	33.00	PASS
Band25	5MHz	16QAM	26365	1RB#12	23.27	24.86	33.00	PASS
Band25	5MHz	16QAM	26365	1RB#24	23.08	24.67	33.00	PASS
Band25	5MHz	16QAM	26365	25RB#0	21.88	23.47	33.00	PASS
Band25	5MHz	16QAM	26665	1RB#0	23.39	24.98	33.00	PASS
Band25	5MHz	16QAM	26665	1RB#12	23.19	24.78	33.00	PASS
Band25	5MHz	16QAM	26665	1RB#24	23.17	24.76	33.00	PASS
Band25	5MHz	16QAM	26665	25RB#0	22.13	23.72	33.00	PASS
Band25	10MHz	QPSK	26090	1RB#0	24.11	25.70	33.00	PASS
Band25	10MHz	QPSK	26090	1RB#24	23.89	25.48	33.00	PASS
Band25	10MHz	QPSK	26090	1RB#49	24.16	25.75	33.00	PASS
Band25	10MHz	QPSK	26090	50RB#0	23.06	24.65	33.00	PASS
Band25	10MHz	QPSK	26365	1RB#0	23.99	25.58	33.00	PASS
Band25	10MHz	QPSK	26365	1RB#24	23.83	25.42	33.00	PASS
Band25	10MHz	QPSK	26365	1RB#49	24.06	25.65	33.00	PASS
Band25	10MHz	QPSK	26365	50RB#0	22.90	24.49	33.00	PASS
Band25	10MHz	QPSK	26640	1RB#0	24.05	25.64	33.00	PASS
Band25	10MHz	QPSK	26640	1RB#24	23.96	25.55	33.00	PASS
Band25	10MHz	QPSK	26640	1RB#49	24.11	25.70	33.00	PASS
Band25	10MHz	QPSK	26640	50RB#0	23.12	24.71	33.00	PASS
Band25	10MHz	16QAM	26090	1RB#0	23.32	24.91	33.00	PASS
Band25	10MHz	16QAM	26090	1RB#24	23.16	24.75	33.00	PASS
Band25	10MHz	16QAM	26090	1RB#49	23.39	24.98	33.00	PASS
Band25	10MHz	16QAM	26090	50RB#0	21.96	23.55	33.00	PASS
Band25	10MHz	16QAM	26365	1RB#0	23.34	24.93	33.00	PASS
Band25	10MHz	16QAM	26365	1RB#24	23.01	24.60	33.00	PASS
Band25	10MHz	16QAM	26365	1RB#49	23.15	24.74	33.00	PASS



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Band25	10MHz	16QAM	26365	50RB#0	21.91	23.50	33.00	PASS
Band25	10MHz	16QAM	26640	1RB#0	23.48	25.07	33.00	PASS
Band25	10MHz	16QAM	26640	1RB#24	23.29	24.88	33.00	PASS
Band25	10MHz	16QAM	26640	1RB#49	23.39	24.98	33.00	PASS
Band25	10MHz	16QAM	26640	50RB#0	22.14	23.73	33.00	PASS
Band25	15MHz	QPSK	26115	1RB#0	23.80	25.39	33.00	PASS
Band25	15MHz	QPSK	26115	1RB#38	23.81	25.40	33.00	PASS
Band25	15MHz	QPSK	26115	1RB#74	24.00	25.59	33.00	PASS
Band25	15MHz	QPSK	26115	75RB#0	23.09	24.68	33.00	PASS
Band25	15MHz	QPSK	26365	1RB#0	23.95	25.54	33.00	PASS
Band25	15MHz	QPSK	26365	1RB#38	24.05	25.64	33.00	PASS
Band25	15MHz	QPSK	26365	1RB#74	24.16	25.75	33.00	PASS
Band25	15MHz	QPSK	26365	75RB#0	23.09	24.68	33.00	PASS
Band25	15MHz	QPSK	26615	1RB#0	24.05	25.64	33.00	PASS
Band25	15MHz	QPSK	26615	1RB#38	23.92	25.51	33.00	PASS
Band25	15MHz	QPSK	26615	1RB#74	24.00	25.59	33.00	PASS
Band25	15MHz	QPSK	26615	75RB#0	23.26	24.85	33.00	PASS
Band25	15MHz	16QAM	26115	1RB#0	23.28	24.87	33.00	PASS
Band25	15MHz	16QAM	26115	1RB#38	23.17	24.76	33.00	PASS
Band25	15MHz	16QAM	26115	1RB#74	23.28	24.87	33.00	PASS
Band25	15MHz	16QAM	26115	75RB#0	21.98	23.57	33.00	PASS
Band25	15MHz	16QAM	26365	1RB#0	23.22	24.81	33.00	PASS
Band25	15MHz	16QAM	26365	1RB#38	23.23	24.82	33.00	PASS
Band25	15MHz	16QAM	26365	1RB#74	23.35	24.94	33.00	PASS
Band25	15MHz	16QAM	26365	75RB#0	22.08	23.67	33.00	PASS
Band25	15MHz	16QAM	26615	1RB#0	23.34	24.93	33.00	PASS
Band25	15MHz	16QAM	26615	1RB#38	23.25	24.84	33.00	PASS
Band25	15MHz	16QAM	26615	1RB#74	23.27	24.86	33.00	PASS
Band25	15MHz	16QAM	26615	75RB#0	22.10	23.69	33.00	PASS
Band25	20MHz	QPSK	26140	1RB#0	23.93	25.52	33.00	PASS
Band25	20MHz	QPSK	26140	1RB#49	24.02	25.61	33.00	PASS
Band25	20MHz	QPSK	26140	1RB#99	23.81	25.40	33.00	PASS



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Band25	20MHz	QPSK	26140	100RB#0	22.92	24.51	33.00	PASS
Band25	20MHz	QPSK	26365	1RB#0	23.94	25.53	33.00	PASS
Band25	20MHz	QPSK	26365	1RB#49	24.08	25.67	33.00	PASS
Band25	20MHz	QPSK	26365	1RB#99	23.87	25.46	33.00	PASS
Band25	20MHz	QPSK	26365	100RB#0	23.06	24.65	33.00	PASS
Band25	20MHz	QPSK	26590	1RB#0	23.95	25.54	33.00	PASS
Band25	20MHz	QPSK	26590	1RB#49	24.01	25.60	33.00	PASS
Band25	20MHz	QPSK	26590	1RB#99	23.69	25.28	33.00	PASS
Band25	20MHz	QPSK	26590	100RB#0	23.12	24.71	33.00	PASS
Band25	20MHz	16QAM	26140	1RB#0	23.40	24.99	33.00	PASS
Band25	20MHz	16QAM	26140	1RB#49	23.43	25.02	33.00	PASS
Band25	20MHz	16QAM	26140	1RB#99	23.10	24.69	33.00	PASS
Band25	20MHz	16QAM	26140	100RB#0	21.90	23.49	33.00	PASS
Band25	20MHz	16QAM	26365	1RB#0	23.32	24.91	33.00	PASS
Band25	20MHz	16QAM	26365	1RB#49	23.27	24.86	33.00	PASS
Band25	20MHz	16QAM	26365	1RB#99	23.25	24.84	33.00	PASS
Band25	20MHz	16QAM	26365	100RB#0	22.03	23.62	33.00	PASS
Band25	20MHz	16QAM	26590	1RB#0	23.30	24.89	33.00	PASS
Band25	20MHz	16QAM	26590	1RB#49	23.28	24.87	33.00	PASS
Band25	20MHz	16QAM	26590	1RB#99	22.95	24.54	33.00	PASS
Band25	20MHz	16QAM	26590	100RB#0	22.03	23.62	33.00	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	5.54	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	5.64	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	5.56	13	PASS
Band25	20MHz	16QAM	26140	100RB#0	6.38	13	PASS
Band25	20MHz	16QAM	26365	100RB#0	6.44	13	PASS
Band25	20MHz	16QAM	26590	100RB#0	6.34	13	PASS



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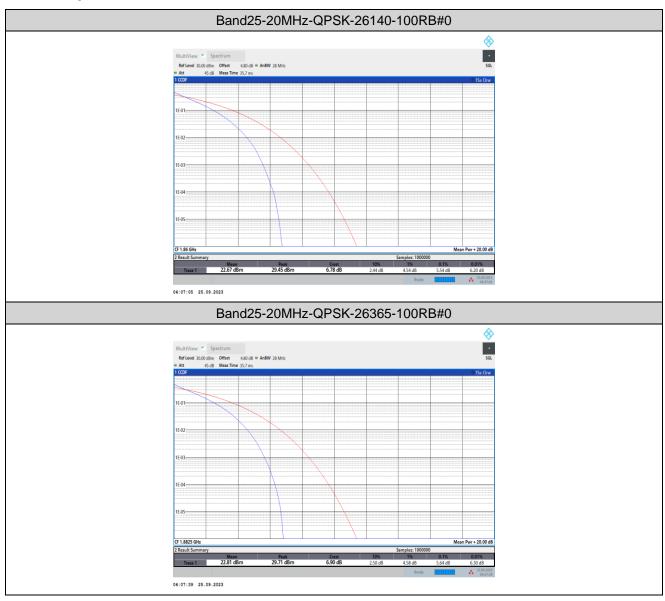


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Test Graphs





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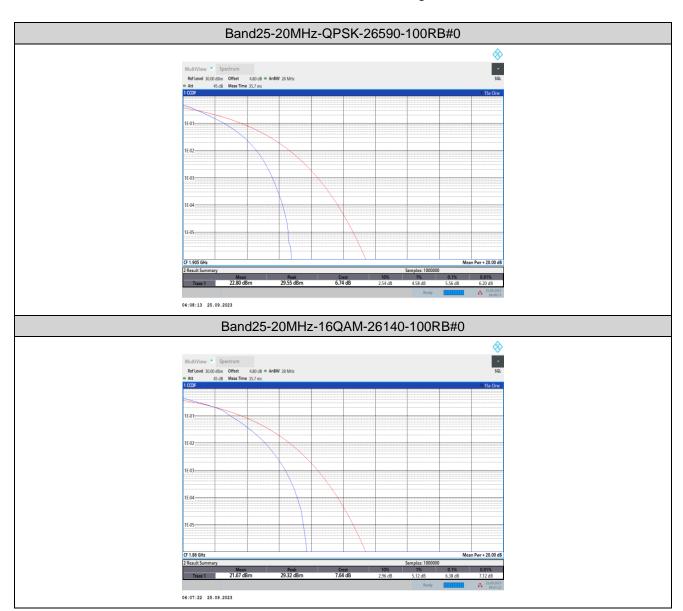
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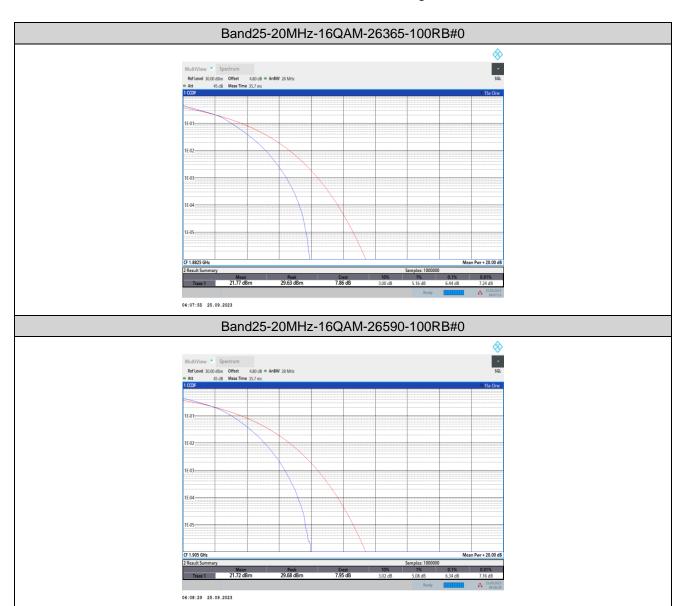
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26365	6RB#0	1.09	1.29	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.097	1.31	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.696	2.98	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.687	2.99	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.47	4.92	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.468	4.92	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.929	9.66	PASS
Band25	10MHz	16QAM	26365	50RB#0	8.918	9.68	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.464	14.85	PASS
Band25	15MHz	16QAM	26365	75RB#0	13.447	14.85	PASS
Band25	20MHz	QPSK	26365	100RB#0	17.922	19.44	PASS
Band25	20MHz	16QAM	26365	100RB#0	17.874	19.28	PASS



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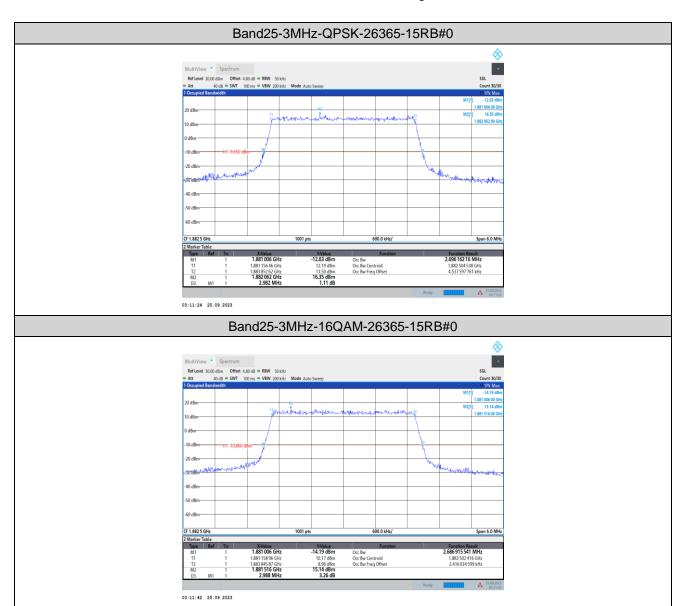
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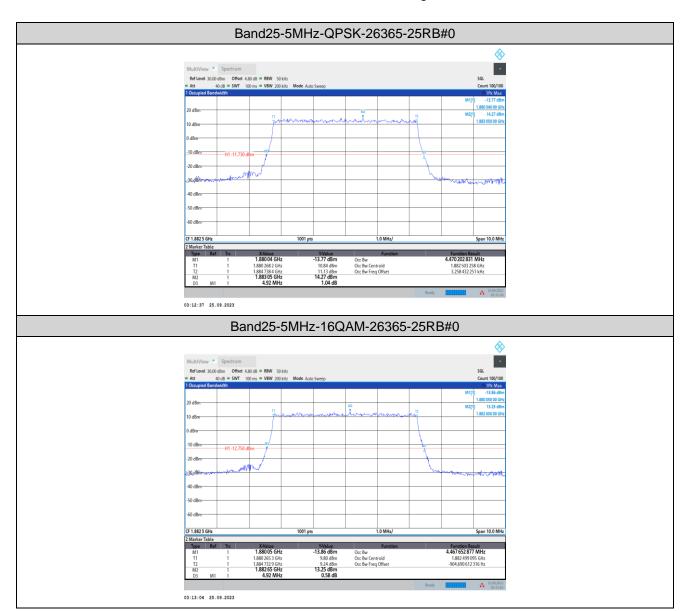
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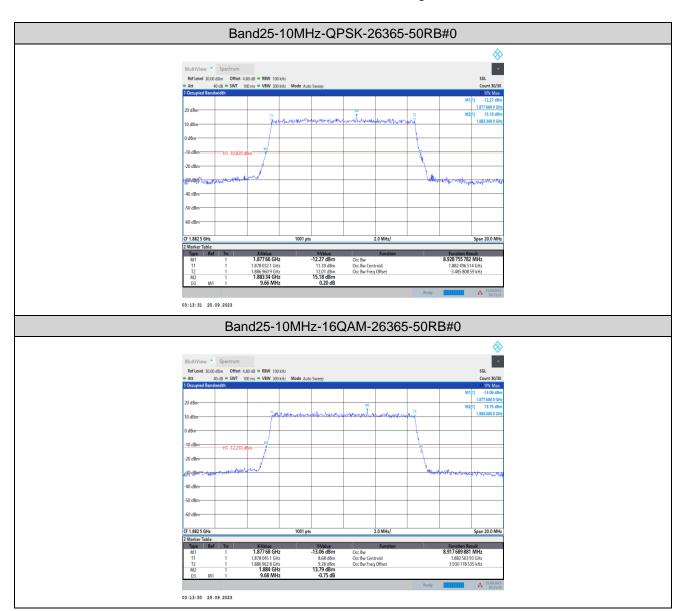
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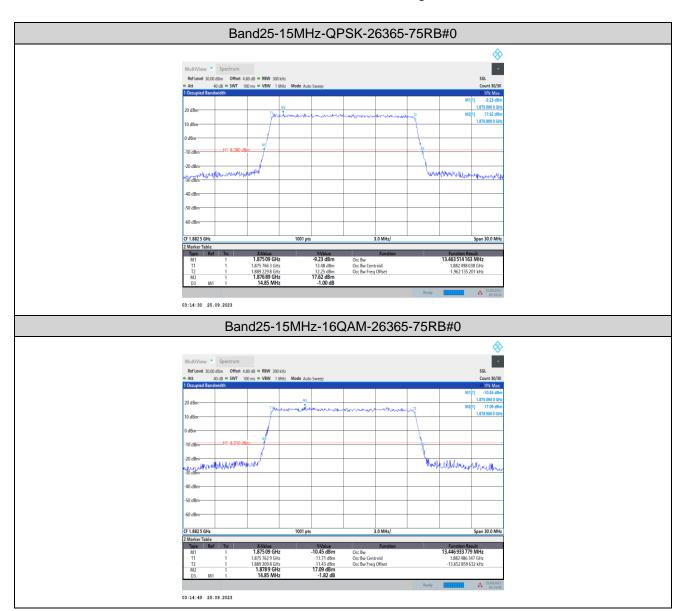
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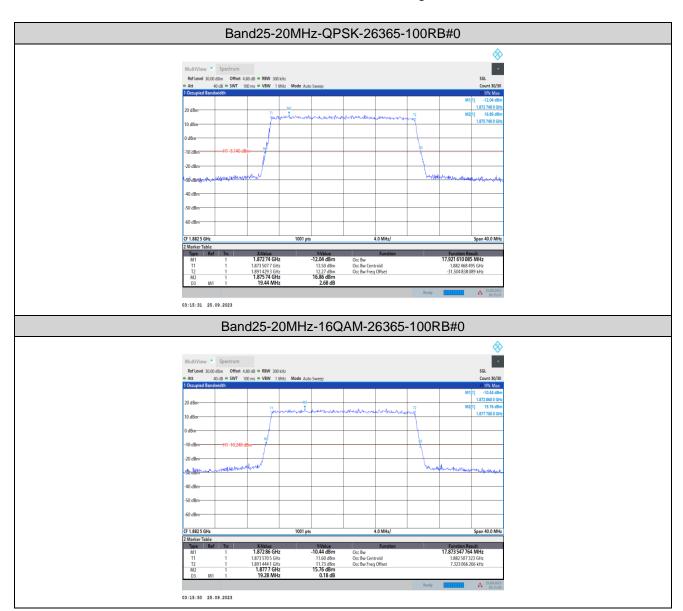
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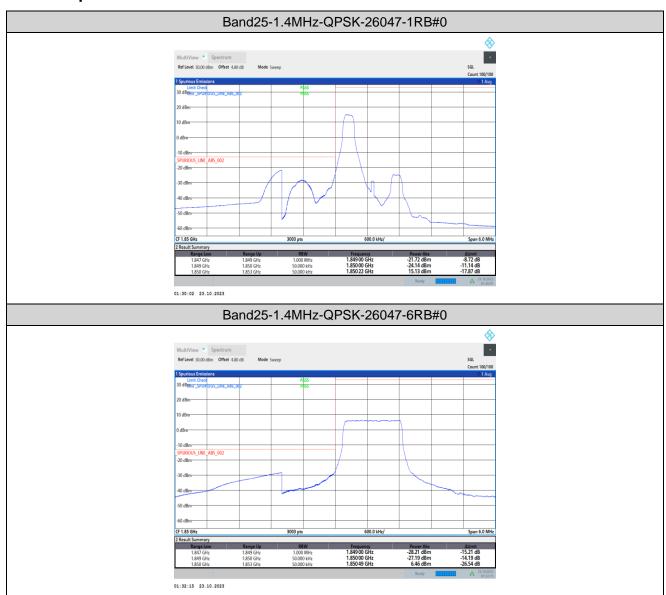
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Band Edge

Test Graphs





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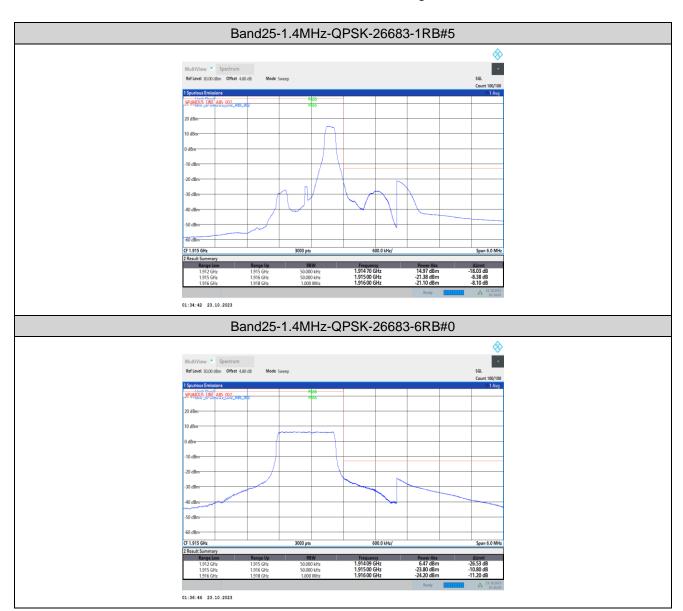
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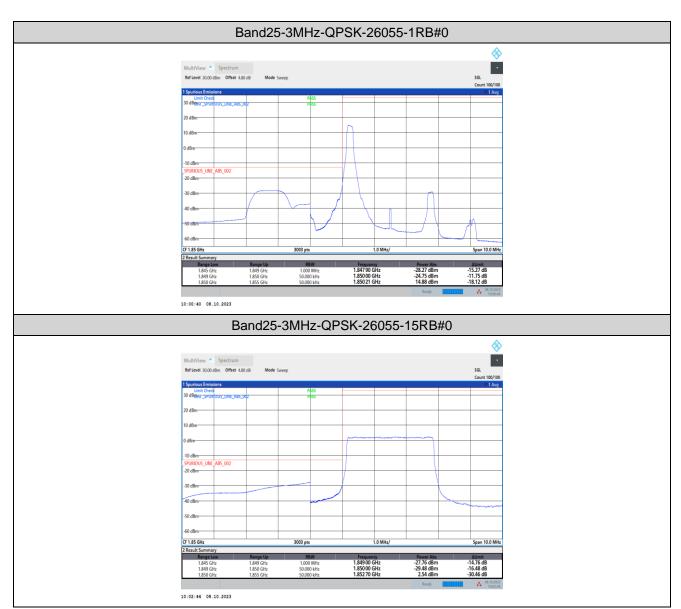
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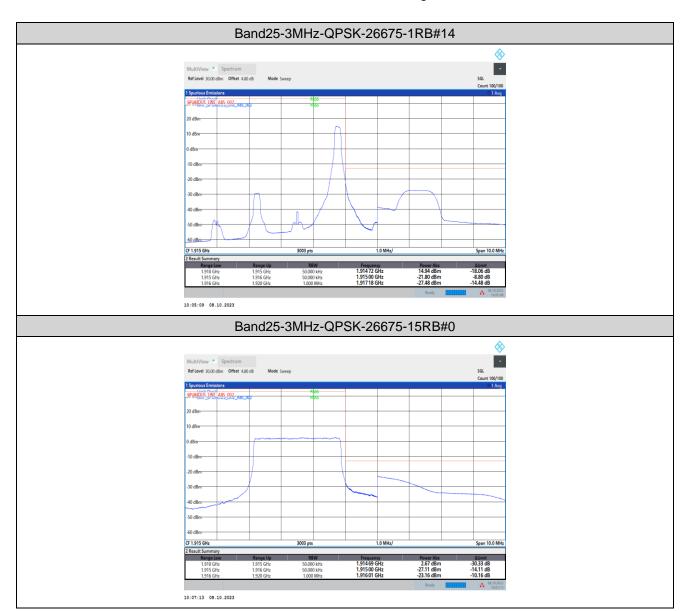
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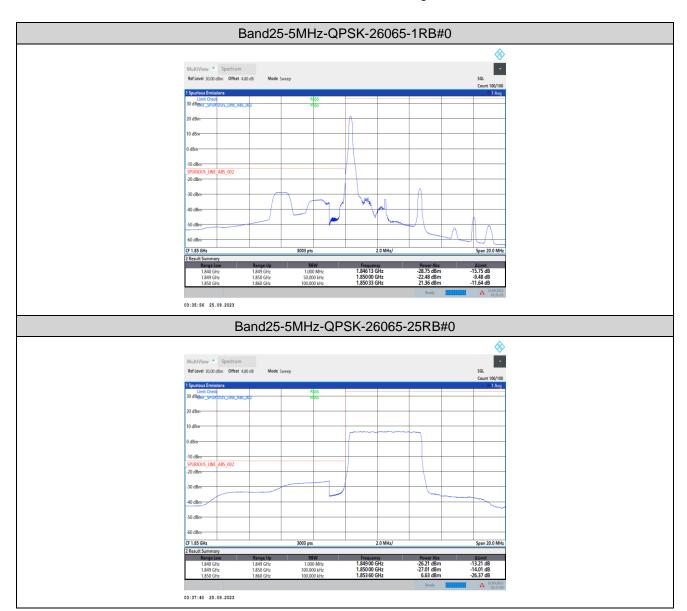
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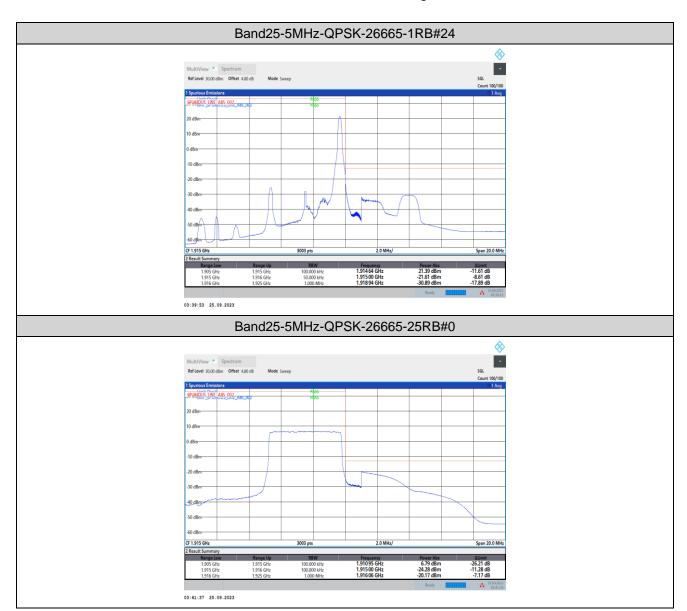
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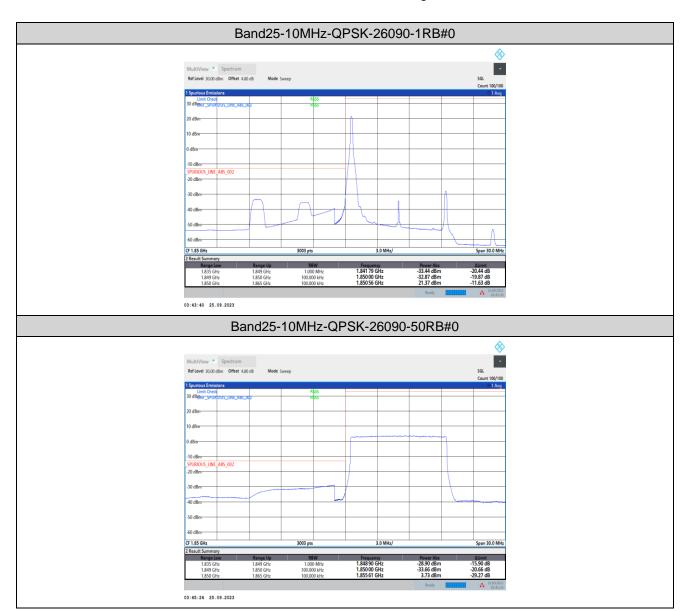
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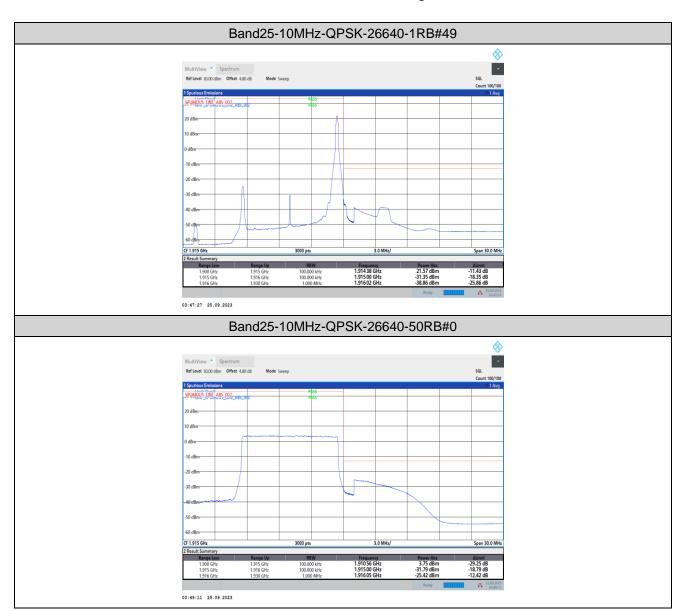
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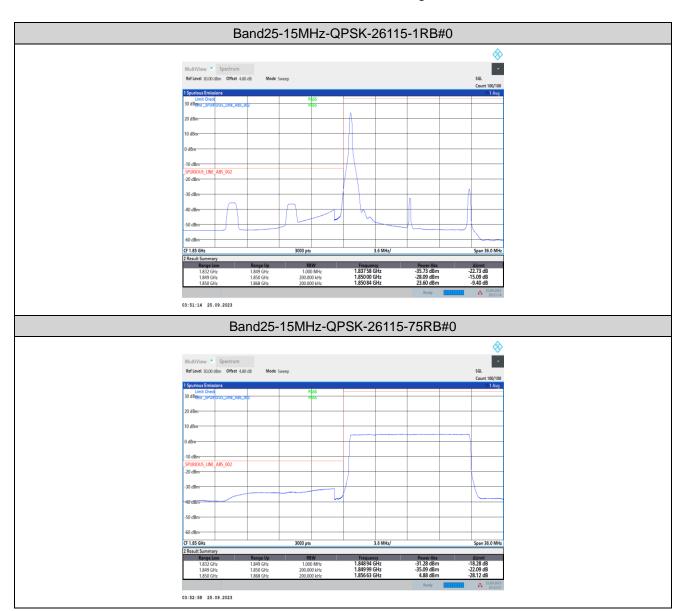
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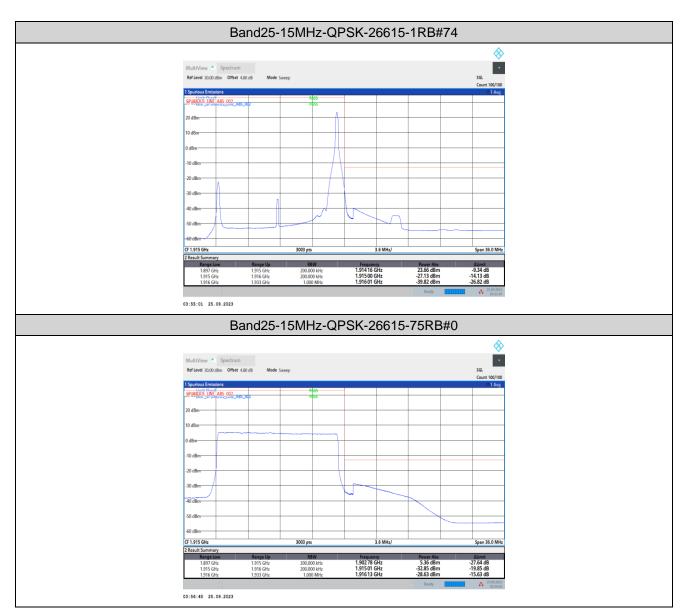
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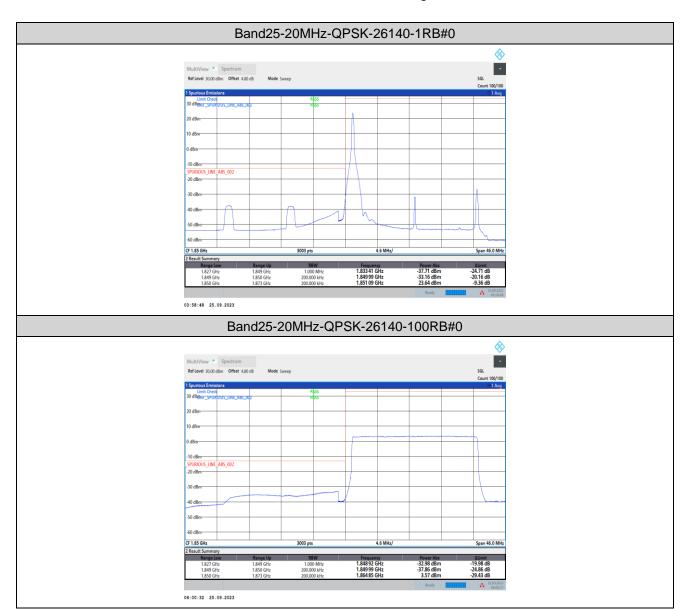
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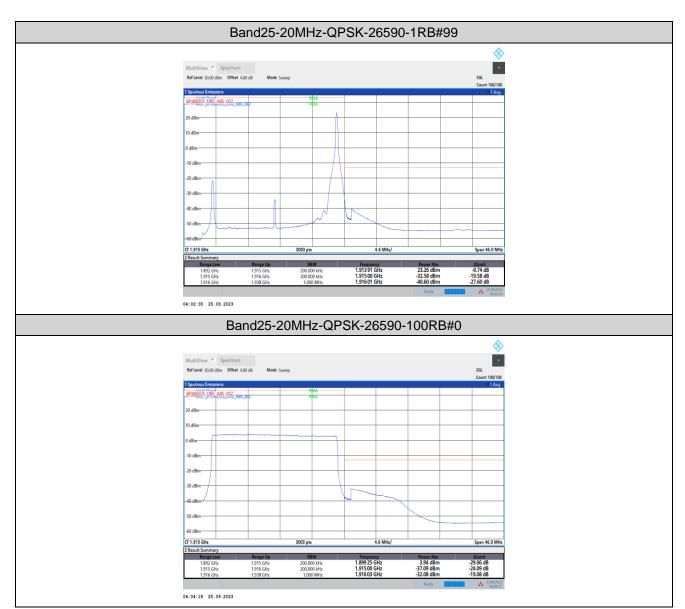
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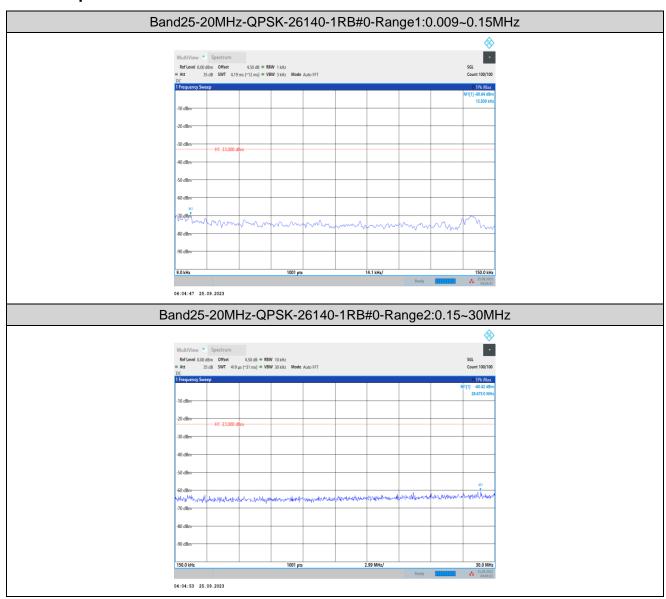
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Conducted Spurious Emission

Test Graphs





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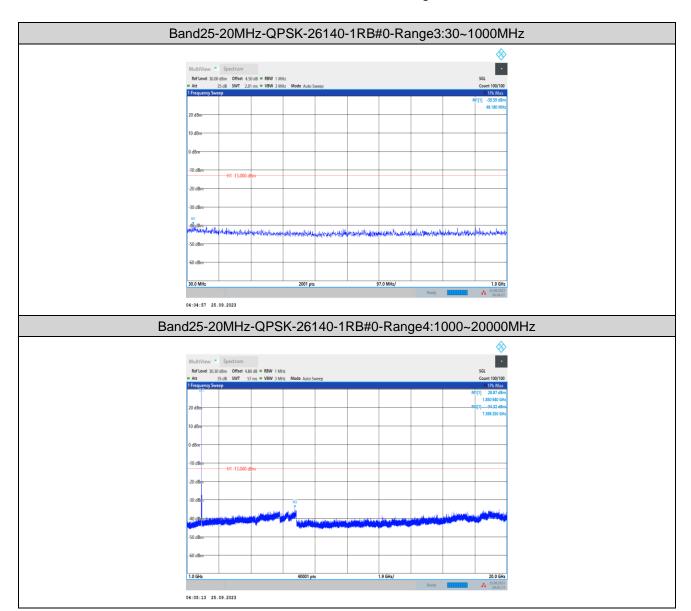
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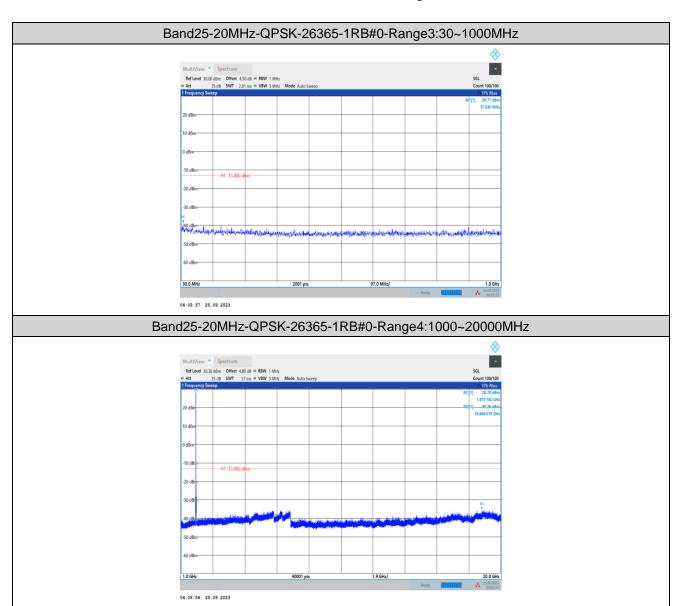
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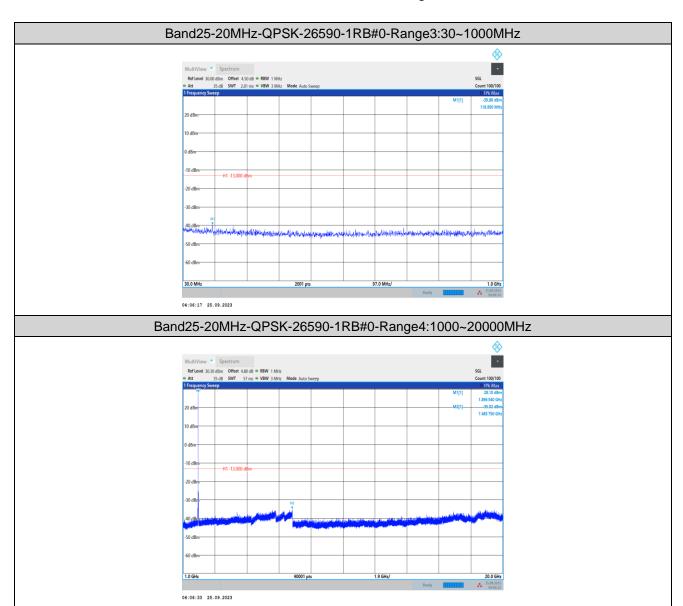
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Field Strength of Spurious Radiation

Test Band = LTE Band25 TM1 Test Channel = Low

Final	Final Data List										
NO	Frequency	Reading	Factor	Λ Γ [«ID /»» 1	Level	Limit	Margin	Dolovitu			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity			
1	3702.1800	39.57	-45.51	28.80	-72.40	-13.00	59.40	Horizontal			
2	5553.2700	39.00	-45.15	32.61	-68.80	-13.00	55.80	Horizontal			
3	7404.3600	37.06	-43.40	36.33	-65.26	-13.00	52.26	Horizontal			
4	9255.4500	32.75	-40.23	36.79	-65.96	-13.00	52.96	Horizontal			
5	11106.5400	27.58	-37.93	38.71	-66.90	-13.00	53.90	Horizontal			
6	12957.6300	26.16	-37.24	39.09	-67.25	-13.00	54.25	Horizontal			

Final	Final Data List										
NO.	Frequency	Reading	Factor	Λ Γ[dD/∞1	Level	Limit	Margin	Dolovity			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity			
1	3702.1800	40.03	-45.51	28.80	-71.94	-13.00	58.94	Vertical			
2	5553.2700	39.87	-45.15	32.61	-67.93	-13.00	54.93	Vertical			
3	7404.3600	37.53	-43.40	36.33	-64.79	-13.00	51.79	Vertical			
4	9255.4500	32.65	-40.23	36.79	-66.06	-13.00	53.06	Vertical			
5	11106.5400	28.43	-37.93	38.71	-66.05	-13.00	53.05	Vertical			
6	12957.6300	25.99	-37.24	39.09	-67.42	-13.00	54.42	Vertical			



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Test Band = LTE Band25_ TM1 Test Channel = Mid

Final Data List										
NO.	Frequency	Reading	Factor	VE[qD/m]	Level	Limit	Margin	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity		
1	3742.1800	39.48	-45.68	28.84	-72.62	-13.00	59.62	Horizontal		
2	5613.2700	39.02	-45.04	32.62	-68.66	-13.00	55.66	Horizontal		
3	7484.3600	35.88	-43.18	36.56	-66.00	-13.00	53.00	Horizontal		
4	9355.4500	32.02	-40.00	36.98	-66.27	-13.00	53.27	Horizontal		
5	11226.5400	30.13	-37.40	38.72	-63.81	-13.00	50.81	Horizontal		
6	13097.6300	25.56	-37.01	39.28	-67.43	-13.00	54.43	Horizontal		

Final	Final Data List										
NO.	Frequency	Reading	Factor	Λ [[dD/m]	Level	Limit	Margin	Dolovitu			
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity			
1	3742.1800	41.37	-45.68	28.84	-70.73	-13.00	57.73	Vertical			
2	5613.2700	38.49	-45.04	32.62	-69.19	-13.00	56.19	Vertical			
3	7484.3600	36.56	-43.18	36.56	-65.32	-13.00	52.32	Vertical			
4	9355.4500	31.88	-40.00	36.98	-66.41	-13.00	53.41	Vertical			
5	11226.5400	29.26	-37.40	38.72	-64.68	-13.00	51.68	Vertical			
6	13097.6300	25.22	-37.01	39.28	-67.77	-13.00	54.77	Vertical			



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Test Band = LTE Band25_ TM1 Test Channel = High

Final	Data List							
NO.	Frequency	Reading	Factor	Λ Γ[dD/m]	Level	Limit	Margin	Dolority
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	Polarity
1	3792.1800	40.02	-45.89	28.89	-72.24	-13.00	59.24	Horizontal
2	5688.2700	38.39	-44.87	32.64	-69.11	-13.00	56.11	Horizontal
3	7584.3600	36.67	-42.96	36.63	-64.92	-13.00	51.92	Horizontal
4	9480.4500	32.77	-40.15	37.21	-65.43	-13.00	52.43	Horizontal
5	11376.5400	28.10	-37.38	38.74	-65.80	-13.00	52.80	Horizontal
6	13272.6300	25.82	-36.97	39.59	-66.82	-13.00	53.82	Horizontal

Final Data List									
NO.	Frequency	Reading	Factor	Λ Γ[-ID/]	Level	Limit	Margin	Polarity	
	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]		
1	3792.1800	39.99	-45.89	28.89	-72.27	-13.00	59.27	Vertical	
2	5688.2700	38.88	-44.87	32.64	-68.62	-13.00	55.62	Vertical	
3	7584.3600	37.05	-42.96	36.63	-64.54	-13.00	51.54	Vertical	
4	9480.4500	33.52	-40.15	37.21	-64.68	-13.00	51.68	Vertical	
5	11376.5400	28.56	-37.38	38.74	-65.34	-13.00	52.34	Vertical	
6	13272.6300	24.90	-36.97	39.59	-67.74	-13.00	54.74	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
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	2.70	0.001434	PASS
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	-0.30	-0.000159	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	-0.20	-0.000106	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	0.10	0.000053	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	1.40	0.000744	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	2.80	0.001487	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	1.80	0.000956	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	3.30	0.001753	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	2.90	0.001541	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	1.70	0.000903	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	1.50	0.000797	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	2.80	0.001487	PASS

---End of Attachment---



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