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Appendix B.8

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	22.88	21.93	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#12	23.1	22.15	34.77	PASS
Band71	5MHz	QPSK	133147	1RB#24	23.4	22.45	34.77	PASS
Band71	5MHz	QPSK	133147	25RB#0	22.3	21.35	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.67	21.72	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.88	21.93	34.77	PASS
Band71	5MHz	QPSK	133297	1RB#24	23.45	22.5	34.77	PASS
Band71	5MHz	QPSK	133297	25RB#0	22	21.05	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.6	21.65	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.6	21.65	34.77	PASS
Band71	5MHz	QPSK	133447	1RB#24	23.23	22.28	34.77	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.77	20.82	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#0	22.21	21.26	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#12	22.57	21.62	34.77	PASS
Band71	5MHz	16QAM	133147	1RB#24	22.9	21.95	34.77	PASS
Band71	5MHz	16QAM	133147	25RB#0	21.38	20.43	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#0	22.07	21.12	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#12	22.28	21.33	34.77	PASS
Band71	5MHz	16QAM	133297	1RB#24	22.81	21.86	34.77	PASS
Band71	5MHz	16QAM	133297	25RB#0	21.08	20.13	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.95	21	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.99	21.04	34.77	PASS
Band71	5MHz	16QAM	133447	1RB#24	22.6	21.65	34.77	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.94	19.99	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.93	21.98	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#24	23.8	22.85	34.77	PASS
Band71	10MHz	QPSK	133172	1RB#49	23.7	22.75	34.77	PASS



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Band71	10MHz	QPSK	133172	50RB#0	22.73	21.78	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.74	21.79	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.97	22.02	34.77	PASS
Band71	10MHz	QPSK	133297	1RB#49	24.03	23.08	34.77	PASS
Band71	10MHz	QPSK	133297	50RB#0	22.2	21.25	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#0	23.65	22.7	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.6	21.65	34.77	PASS
Band71	10MHz	QPSK	133422	1RB#49	23	22.05	34.77	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.96	21.01	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#0	22.29	21.34	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#24	23.03	22.08	34.77	PASS
Band71	10MHz	16QAM	133172	1RB#49	23.04	22.09	34.77	PASS
Band71	10MHz	16QAM	133172	27RB#0	22.95	22	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#0	22.11	21.16	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#24	22.32	21.37	34.77	PASS
Band71	10MHz	16QAM	133297	1RB#49	23.41	22.46	34.77	PASS
Band71	10MHz	16QAM	133297	27RB#0	22.93	21.98	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#0	23.03	22.08	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.86	20.91	34.77	PASS
Band71	10MHz	16QAM	133422	1RB#49	22.52	21.57	34.77	PASS
Band71	10MHz	16QAM	133422	27RB#0	22.68	21.73	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.71	21.76	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#38	23.93	22.98	34.77	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.43	21.48	34.77	PASS
Band71	15MHz	QPSK	133197	75RB#0	22.41	21.46	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#0	23.23	22.28	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#38	23.06	22.11	34.77	PASS
Band71	15MHz	QPSK	133297	1RB#74	23.89	22.94	34.77	PASS
Band71	15MHz	QPSK	133297	75RB#0	22.3	21.35	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#0	23.59	22.64	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#38	23.05	22.1	34.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.86	21.91	34.77	PASS



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Band71	15MHz	QPSK	133397	75RB#0	22.32	21.37	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#0	21.86	20.91	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	23.1	22.15	34.77	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.64	20.69	34.77	PASS
Band71	15MHz	16QAM	133197	27RB#0	20.85	19.9	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#0	22.42	21.47	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#38	22.23	21.28	34.77	PASS
Band71	15MHz	16QAM	133297	1RB#74	23.03	22.08	34.77	PASS
Band71	15MHz	16QAM	133297	27RB#0	22.63	21.68	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#0	22.72	21.77	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#38	22.18	21.23	34.77	PASS
Band71	15MHz	16QAM	133397	1RB#74	22.04	21.09	34.77	PASS
Band71	15MHz	16QAM	133397	27RB#0	21.63	20.68	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#0	22.84	21.89	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#49	23.6	22.65	34.77	PASS
Band71	20MHz	QPSK	133222	1RB#99	23.15	22.2	34.77	PASS
Band71	20MHz	QPSK	133222	100RB#0	22.44	21.49	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#0	23.08	22.13	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#49	23.68	22.73	34.77	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.65	21.7	34.77	PASS
Band71	20MHz	QPSK	133322	100RB#0	22.46	21.51	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.44	21.49	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#49	23.74	22.79	34.77	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.74	21.79	34.77	PASS
Band71	20MHz	QPSK	133372	100RB#0	22.21	21.26	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#0	22.09	21.14	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#49	22.82	21.87	34.77	PASS
Band71	20MHz	16QAM	133222	1RB#99	22.36	21.41	34.77	PASS
Band71	20MHz	16QAM	133222	27RB#0	21.58	20.63	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#0	22.39	21.44	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#49	22.81	21.86	34.77	PASS
Band71	20MHz	16QAM	133322	1RB#99	22	21.05	34.77	PASS



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Band71	20MHz	16QAM	133322	27RB#0	21.43	20.48	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.59	20.64	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#49	22.79	21.84	34.77	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.82	20.87	34.77	PASS
Band71	20MHz	16QAM	133372	27RB#0	21.36	20.41	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	5.88	13	PASS
Band71	20MHz	QPSK	133322	100RB#0	5.80	13	PASS
Band71	20MHz	QPSK	133372	100RB#0	5.84	13	PASS



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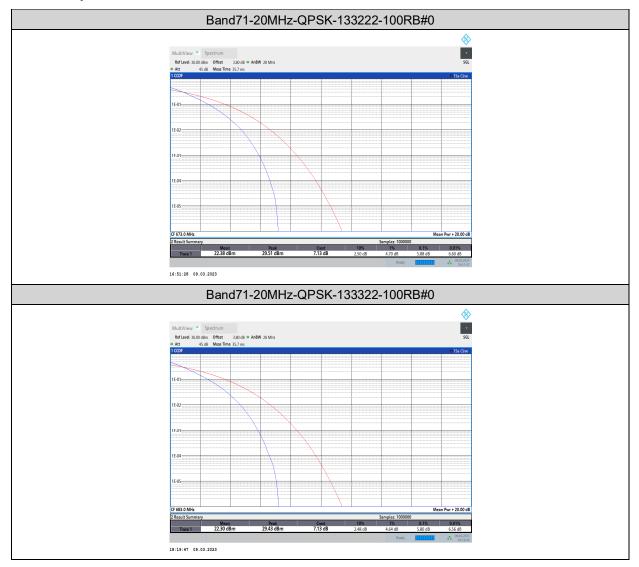
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Test Graphs





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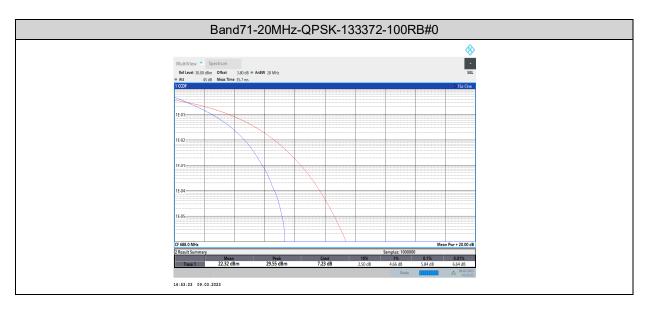
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band71	5MHz	QPSK	133322	25RB#0	PASS	PASS
Band71	5MHz	16QAM	133322	25RB#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	4.471	4.96	PASS
Band71	5MHz	QPSK	133297	25RB#0	4.468	4.96	PASS
Band71	5MHz	QPSK	133447	25RB#0	4.472	4.97	PASS
Band71	5MHz	16QAM	133147	25RB#0	4.467	4.97	PASS
Band71	5MHz	16QAM	133297	25RB#0	4.472	4.96	PASS
Band71	5MHz	16QAM	133447	25RB#0	4.475	4.97	PASS
Band71	10MHz	QPSK	133172	50RB#0	8.929	9.94	PASS
Band71	10MHz	QPSK	133297	50RB#0	8.951	9.92	PASS
Band71	10MHz	QPSK	133422	50RB#0	8.959	10.06	PASS
Band71	10MHz	16QAM	133172	27RB#0	4.884	5.90	PASS
Band71	10MHz	16QAM	133297	27RB#0	4.889	5.84	PASS
Band71	10MHz	16QAM	133422	27RB#0	4.885	5.80	PASS
Band71	15MHz	QPSK	133197	75RB#0	13.498	15.24	PASS
Band71	15MHz	QPSK	133297	75RB#0	13.524	15.21	PASS
Band71	15MHz	QPSK	133397	75RB#0	13.504	15.24	PASS
Band71	15MHz	16QAM	133197	27RB#0	5.236	6.87	PASS
Band71	15MHz	16QAM	133297	27RB#0	5.266	6.93	PASS
Band71	15MHz	16QAM	133397	27RB#0	5.182	6.90	PASS
Band71	20MHz	QPSK	133222	100RB#0	17.968	20.24	PASS
Band71	20MHz	QPSK	133322	100RB#0	17.914	20.04	PASS
Band71	20MHz	QPSK	133372	100RB#0	17.893	20.04	PASS
Band71	20MHz	16QAM	133222	27RB#0	5.221	7.04	PASS
Band71	20MHz	16QAM	133322	27RB#0	5.254	7.16	PASS
Band71	20MHz	16QAM	133372	27RB#0	5.285	7.20	PASS



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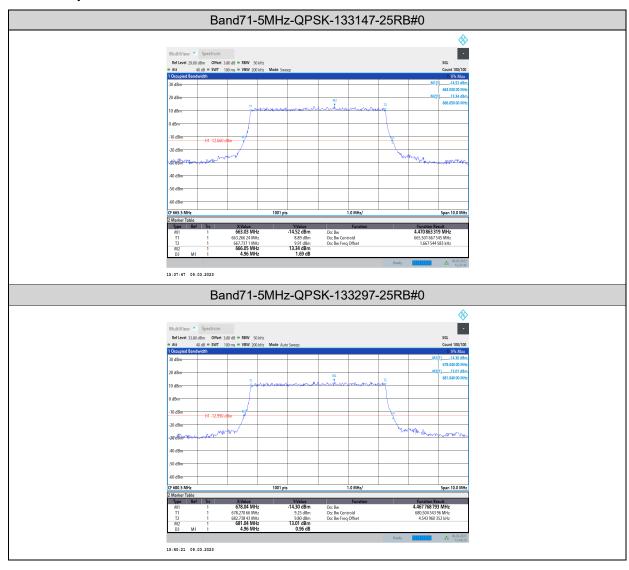


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Test Graphs





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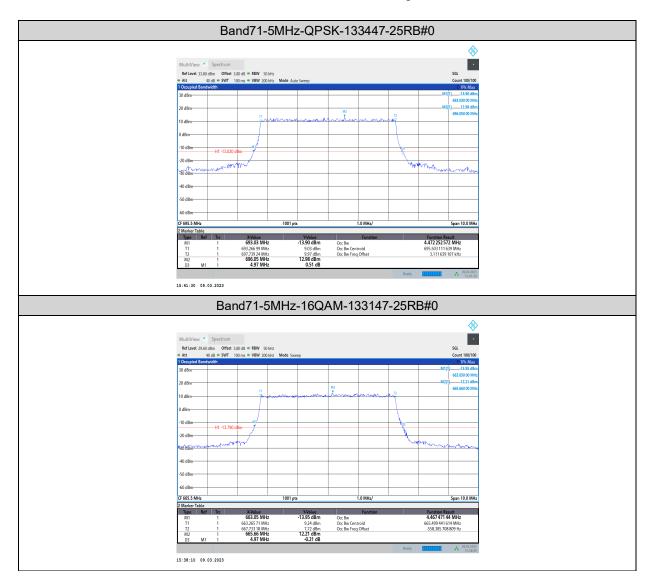
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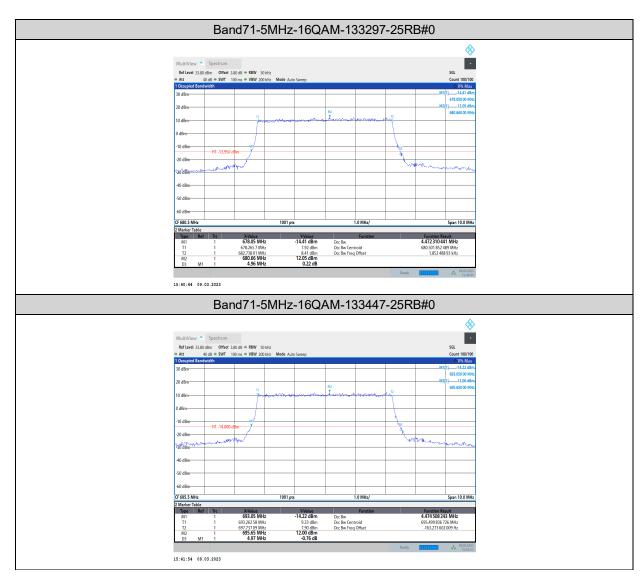
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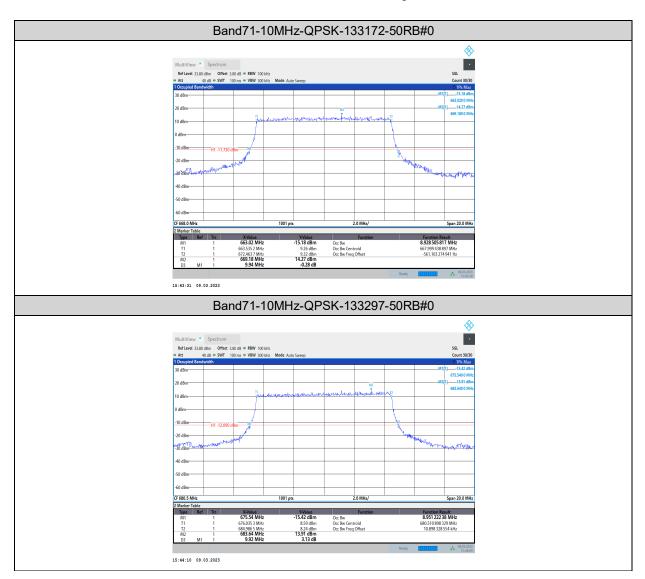
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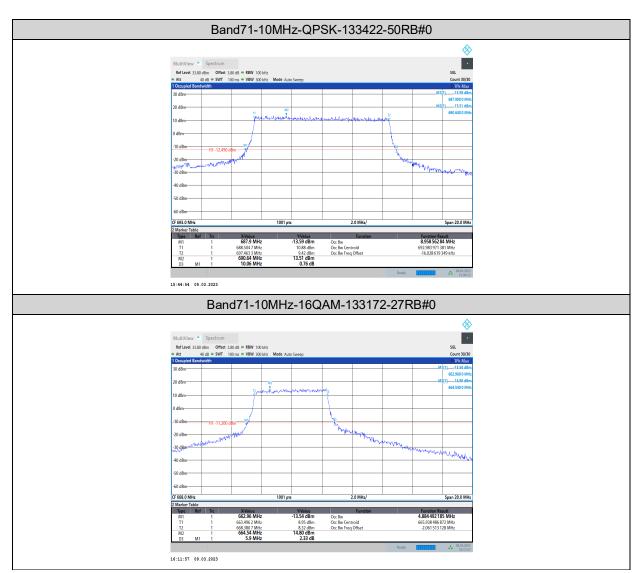
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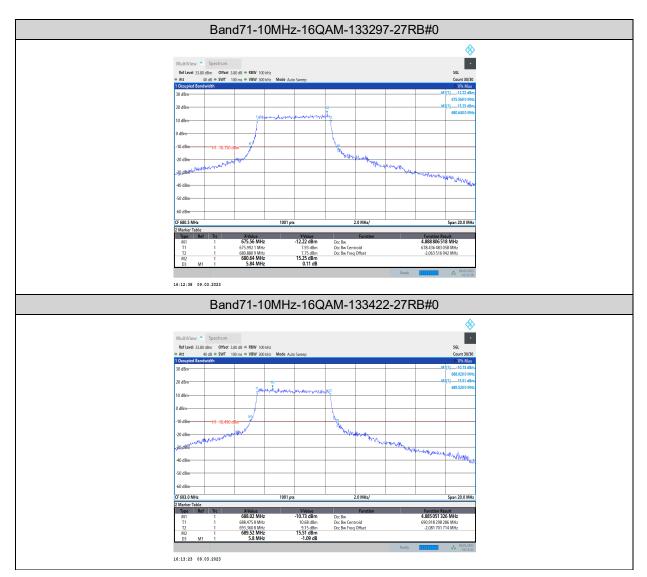
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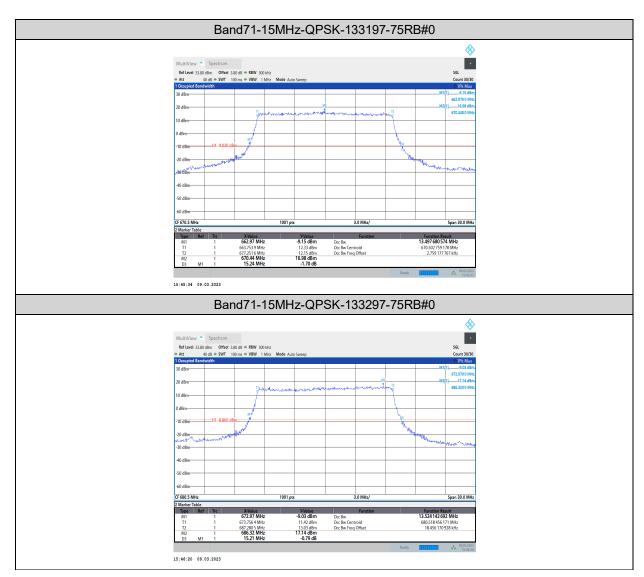
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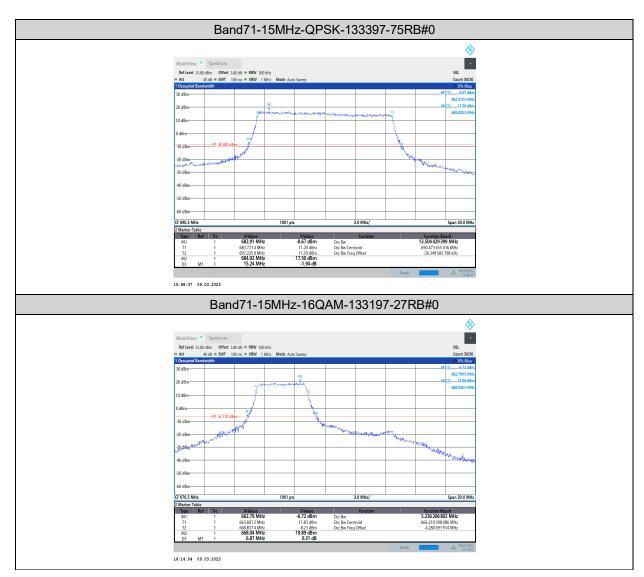
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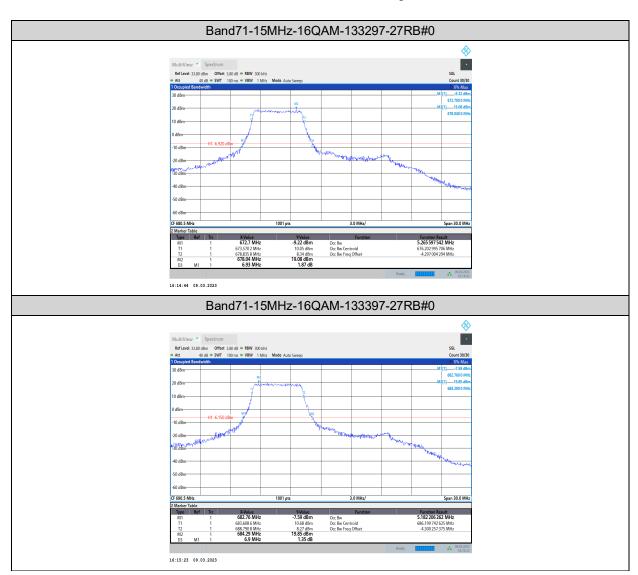
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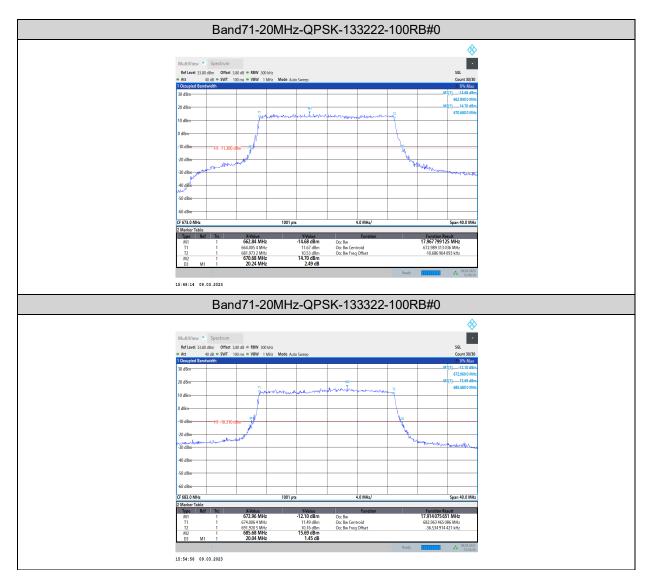
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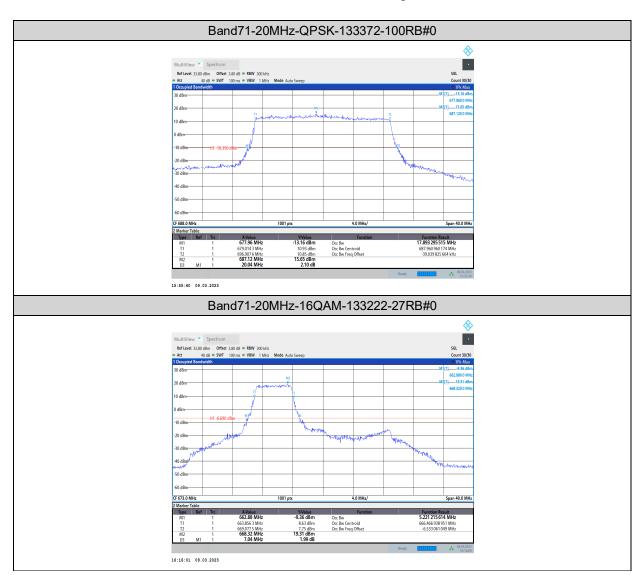
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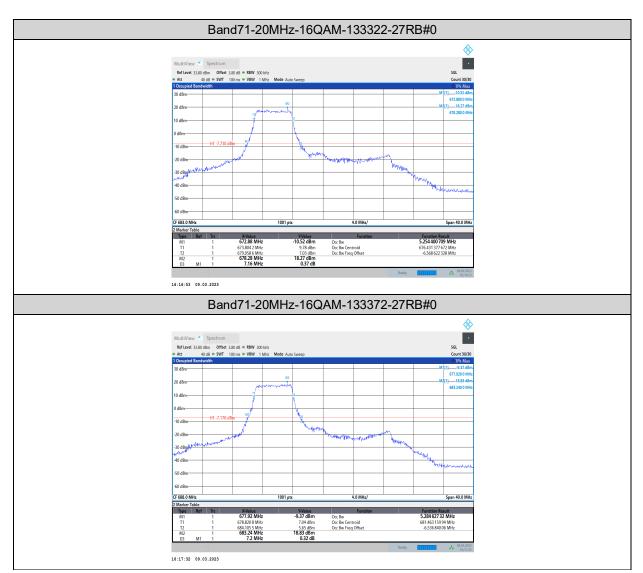
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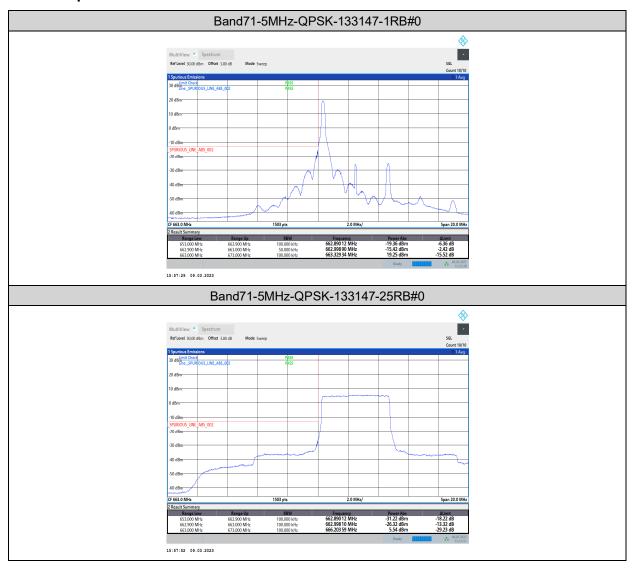
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Band Edge

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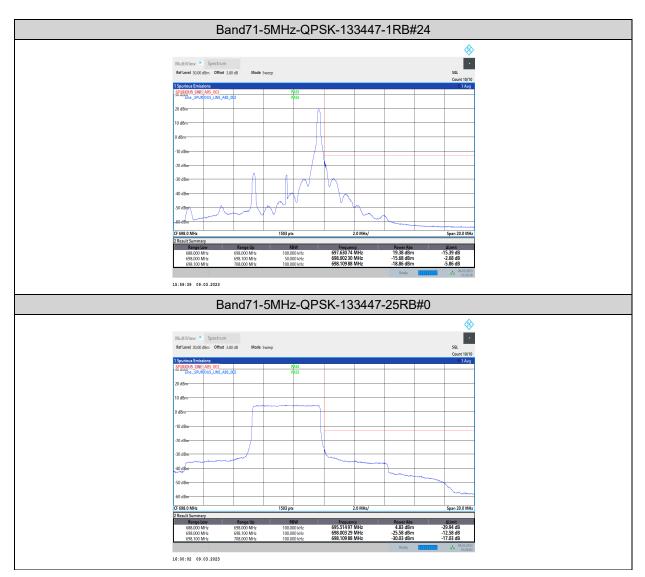
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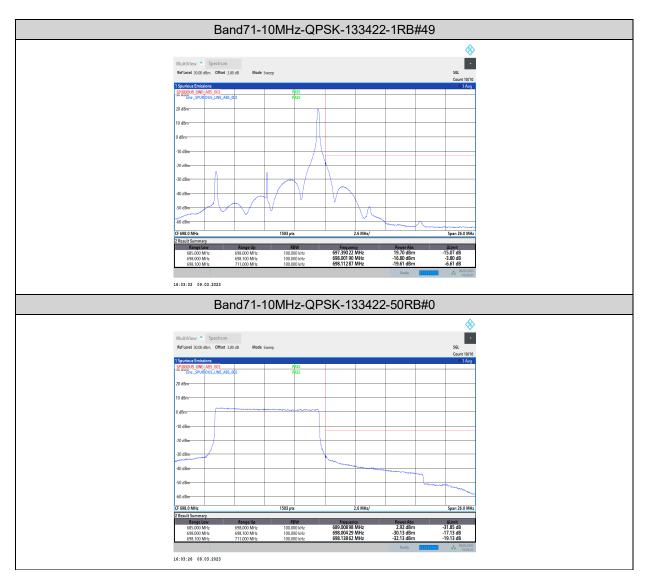
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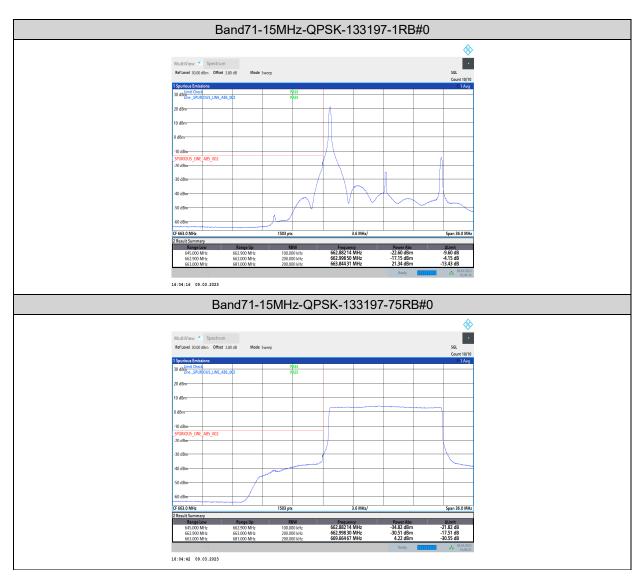
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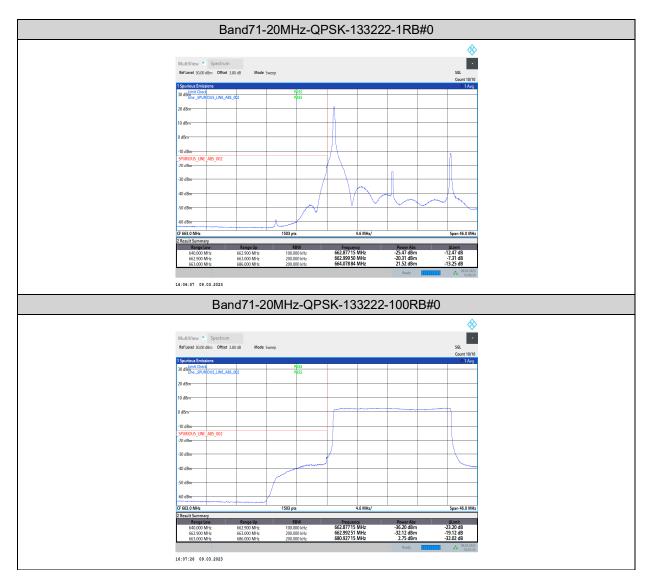
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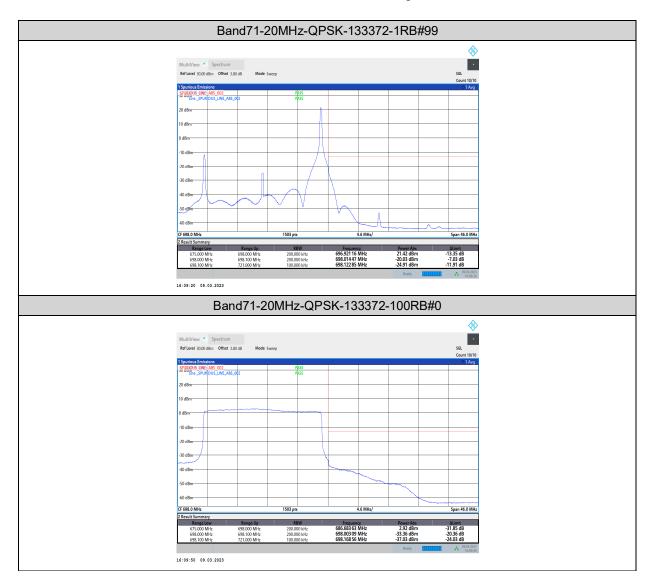
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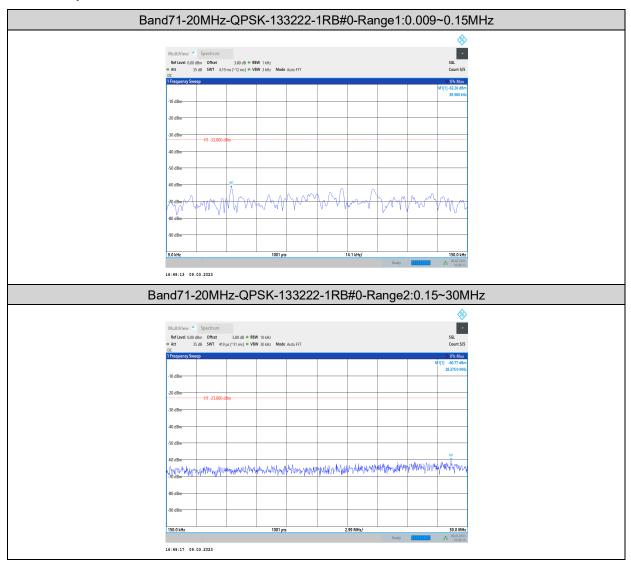
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Conducted Spurious Emission

Test Graphs





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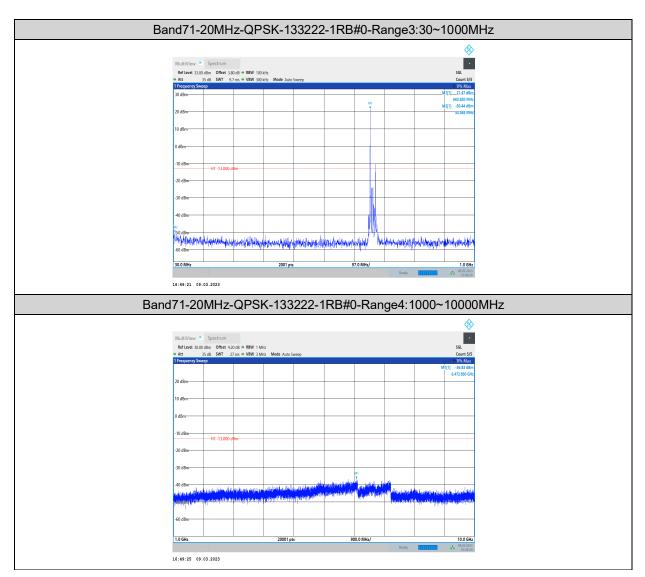
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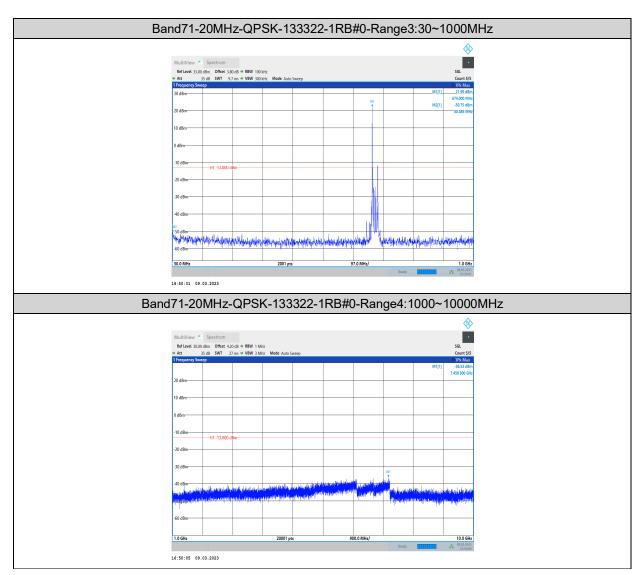
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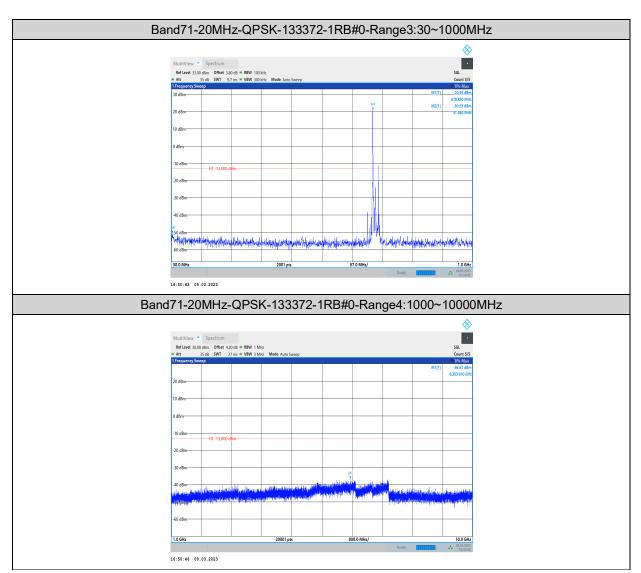
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Field Strength of Spurious Radiation

Test Band = LTE Band 71_QPSK_10MHz_ TM1 **Test Channel = Low Channel**

Final	Final Data List											
NO	Frequency	Reading	Factor	AFFID/1	Level	Limit	Margin	Height	Angle	Dalasita		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1328.18	68.67	-48.79	25.54	-49.83	-13.00	36.83	167	51	Horizontal		
2	1992.27	48.08	-48.08	26.85	-68.41	-13.00	55.41	248	258	Horizontal		
3	2656.36	42.37	-47.14	28.43	-71.60	-13.00	58.60	139	288	Horizontal		
4	3320.45	43.30	-46.14	29.47	-68.63	-13.00	55.63	254	302	Horizontal		
5	3984.54	41.69	-45.50	30.56	-68.51	-13.00	55.51	168	258	Horizontal		
6	4648.63	41.19	-44.59	31.76	-66.90	-13.00	53.90	152	258	Horizontal		

Final	Final Data List												
NO	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Dalawiki			
NO.	[MHz]	[dBµV]	[dB]	Ai [dD/iii]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	1328	71.42	-48.79	25.54	-47.08	-13.00	34.08	256	29	Vertical			
2	1992.27	54.65	-48.08	26.85	-61.84	-13.00	48.84	187	319	Vertical			
3	2656.36	42.68	-47.14	28.43	-71.29	-13.00	58.29	293	188	Vertical			
4	3320.45	42.94	-46.14	29.47	-68.99	-13.00	55.99	264	102	Vertical			
5	3984.54	41.10	-45.50	30.56	-69.10	-13.00	56.10	185	360	Vertical			
6	4648.63	41.07	-44.59	31.76	-67.02	-13.00	54.02	216	14	Vertical			



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Test Band = LTE Band 71_QPSK_10MHz_ TM1 **Test Channel = Mid Channel**

Final	Final Data List											
NO	Frequency	Reading	Factor	AFFID/1	Level	Limit	Margin	Height	Angle	Dalanita		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1348.18	61.20	-48.77	25.50	-57.33	-13.00	44.33	162	228	Horizontal		
2	2022.27	45.55	-48.04	26.95	-70.80	-13.00	57.80	196	81	Horizontal		
3	2696.36	43.31	-47.07	28.57	-70.45	-13.00	57.45	114	331	Horizontal		
4	3370.45	41.93	-46.23	29.45	-70.11	-13.00	57.11	136	11	Horizontal		
5	4044.54	40.95	-45.46	30.67	-69.10	-13.00	56.10	124	20	Horizontal		
6	4718.63	40.65	-44.56	31.93	-67.25	-13.00	54.25	168	81	Horizontal		

Final	Final Data List											
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity		
NO.	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polanty		
1	1348.18	66.63	-48.77	25.50	-51.90	-13.00	38.90	196	3	Vertical		
2	2022.27	53.64	-48.04	26.95	-62.71	-13.00	49.71	136	248	Vertical		
3	2696.36	43.57	-47.07	28.57	-70.19	-13.00	57.19	144	87	Vertical		
4	3370.45	42.45	-46.23	29.45	-69.59	-13.00	56.59	159	72	Vertical		
5	4044.54	41.09	-45.46	30.67	-68.96	-13.00	55.96	196	176	Vertical		
6	4718.63	40.80	-44.56	31.93	-67.10	-13.00	54.10	115	87	Vertical		



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Test Band = LTE Band 71_QPSK_10MHz_TM1 **Test Channel = High Channel**

Final	Final Data List											
NO.	Frequency	Reading	Factor	Λ Γ[d D/m]	Level	Limit	Margin	Height	Angle	Dolority		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	1358.18	59.96	-48.76	25.48	-58.58	-13.00	45.58	186	288	Horizontal		
2	2037.27	45.43	-48.01	26.98	-70.86	-13.00	57.86	139	258	Horizontal		
3	2716.36	42.48	-47.00	28.64	-71.14	-13.00	58.14	241	1	Horizontal		
4	3395.45	43.86	-46.27	29.44	-68.23	-13.00	55.23	186	273	Horizontal		
5	4074.54	42.34	-45.43	30.72	-67.63	-13.00	54.63	229	65	Horizontal		
6	4753.63	40.03	-44.58	32.01	-67.80	-13.00	54.80	164	126	Horizontal		

Final Data List										
NO.	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Polarity
	[MHz]	[dBµV]	[dB]	Ar[ub/III]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polanty
1	1358.18	64.31	-48.76	25.48	-54.23	-13.00	41.23	259	354	Vertical
2	2037.27	54.92	-48.01	26.98	-61.37	-13.00	48.37	167	3	Vertical
3	2716.36	42.26	-47.00	28.64	-71.36	-13.00	58.36	241	114	Vertical
4	3395.45	42.99	-46.27	29.44	-69.10	-13.00	56.10	286	129	Vertical
5	4074.54	42.12	-45.43	30.72	-67.85	-13.00	54.85	235	71	Vertical
6	4753.63	40.37	-44.58	32.01	-67.46	-13.00	54.46	214	360	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	-4.30	-0.006296	PASS
Band71	20MHz	QPSK	133322	100RB#0	VN	NT	-4.10	-0.006003	PASS
Band71	20MHz	QPSK	133322	100RB#0	VH	NT	-1.80	-0.002635	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band71	20MHz	QPSK	133322	100RB#0	NV	-30	-1.80	-0.002635	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-20	-5.40	-0.007906	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	-10	-1.20	-0.001757	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	0	-4.30	-0.006296	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	10	-3.50	-0.005124	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	20	-4.10	-0.006003	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	30	-5.40	-0.007906	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	40	-3.40	-0.004978	PASS
Band71	20MHz	QPSK	133322	100RB#0	NV	50	-5.10	-0.007467	PASS

---End of Attachment---



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