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Appendix B.3

LTE Band 5



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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
Band5	1.4MHz	QPSK	20407	1RB#0	22.87	23.25	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.9	23.28	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.82	23.2	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.87	22.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.87	23.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.9	23.28	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.82	23.2	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.85	22.23	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.76	23.14	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.83	23.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.86	23.24	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.86	22.24	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.07	22.45	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.23	22.61	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.01	22.39	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.97	21.35	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.01	22.39	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.17	22.55	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.04	22.42	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21	21.38	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.06	22.44	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.02	22.4	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.07	22.45	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.05	21.43	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.87	23.25	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.87	23.25	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.83	23.21	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.94	22.32	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.87	23.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.87	23.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.88	23.26	38.45	PASS



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Band5	3MHz	QPSK	20525	15RB#0	21.95	22.33	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.87	23.25	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.81	23.19	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.92	23.3	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.08	22.46	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.19	22.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.19	22.57	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.08	22.46	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21	21.38	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.2	22.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.18	22.56	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.14	22.52	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.99	21.37	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.16	22.54	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.1	22.48	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.1	22.48	38.45	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.06	21.44	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.92	23.3	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.86	23.24	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.86	23.24	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.96	22.34	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.93	23.31	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.88	23.26	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.86	23.24	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22	22.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.92	23.3	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.88	23.26	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.9	23.28	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.08	22.46	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.09	22.47	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.1	22.48	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.1	22.48	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.97	21.35	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.18	22.56	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.27	22.65	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.07	22.45	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21	21.38	38.45	PASS



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Band5	5MHz	16QAM	20625	1RB#0	22.12	22.5	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.15	22.53	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.14	22.52	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.06	21.44	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.88	23.26	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.86	23.24	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.9	23.28	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.03	22.41	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.96	23.34	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.93	23.31	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.81	23.19	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.99	22.37	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.91	23.29	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.9	23.28	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.94	23.32	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.02	22.4	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.13	22.51	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.13	22.51	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.16	22.54	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.05	21.43	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.24	22.62	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.13	22.51	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.09	22.47	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.15	21.53	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.15	22.53	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.26	22.64	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.11	22.49	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.02	21.4	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.48	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.52	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.46	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	6.30	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	6.34	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.22	13	PASS



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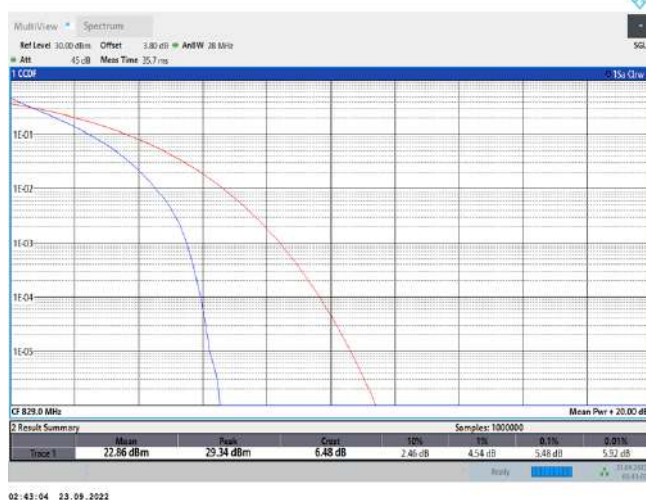
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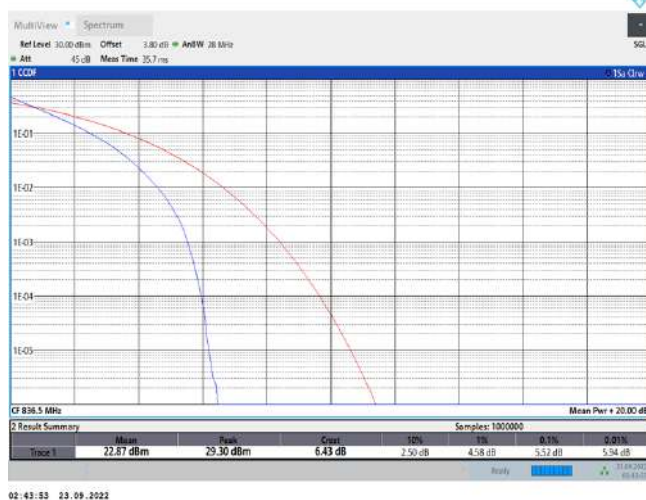
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Test Graphs

Band5-10MHz-QPSK-20450-50RB#0



Band5-10MHz-QPSK-20525-50RB#0



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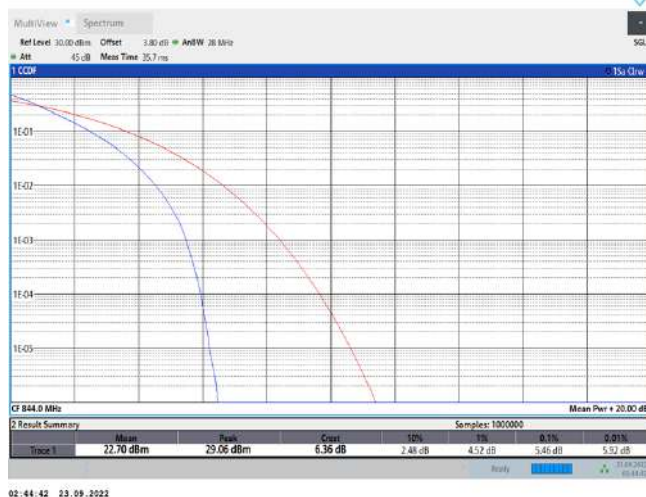
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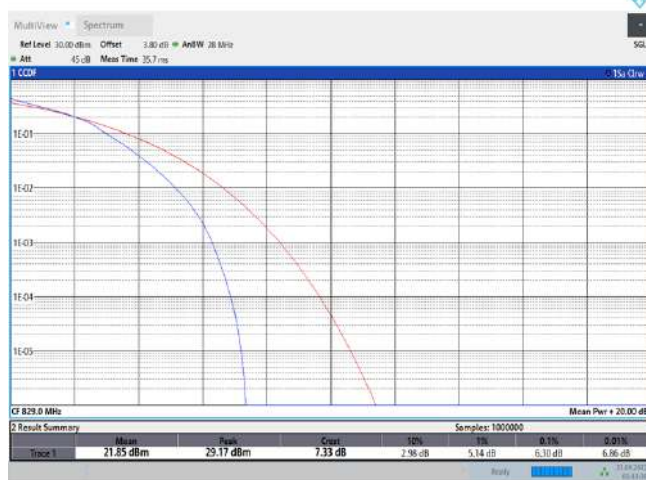
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Band5-10MHz-QPSK-20600-50RB#0



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Band5-10MHz-16QAM-20450-50RB#0



02:43:20 23.09.2022



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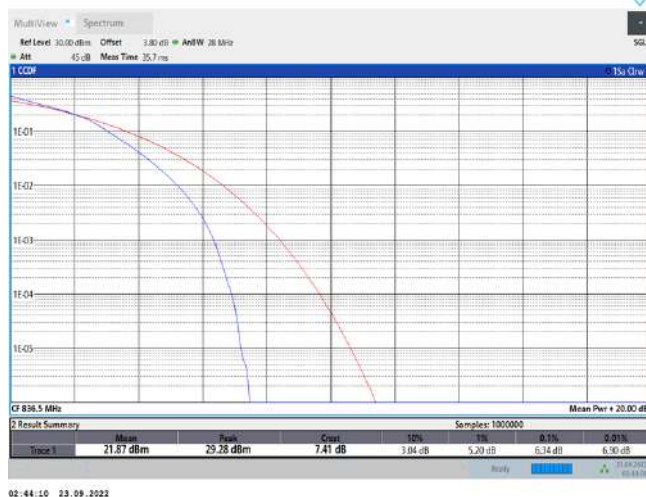
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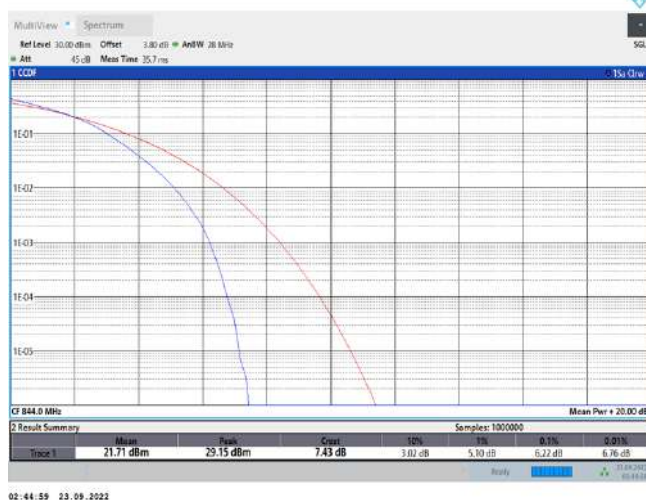
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Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS



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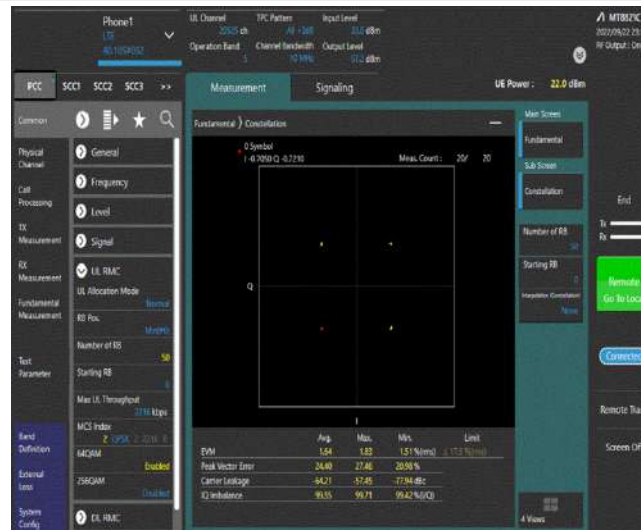
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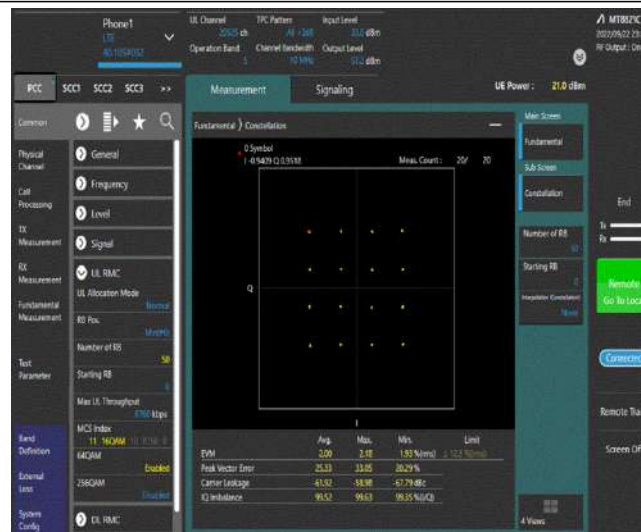
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Test Graphs

Band5-10MHz-QPSK-20525-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.085	1.23	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.086	1.23	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.23	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.092	1.24	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.092	1.24	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.092	1.24	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.697	2.99	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.697	2.99	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.699	2.98	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.687	2.98	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.688	2.99	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.693	2.99	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.474	4.90	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.476	4.90	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.47	4.89	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.472	4.90	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.469	4.90	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.466	4.90	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.915	9.64	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.943	9.60	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.918	9.60	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.911	9.66	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.925	9.64	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.9	9.60	PASS



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Test Graphs

Band5-1.4MHz-QPSK-20407-6RB#0



Band5-1.4MHz-QPSK-20525-6RB#0



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Band5-1.4MHz-16QAM-20407-6RB#0



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Band5-1.4MHz-16QAM-20643-6RB#0



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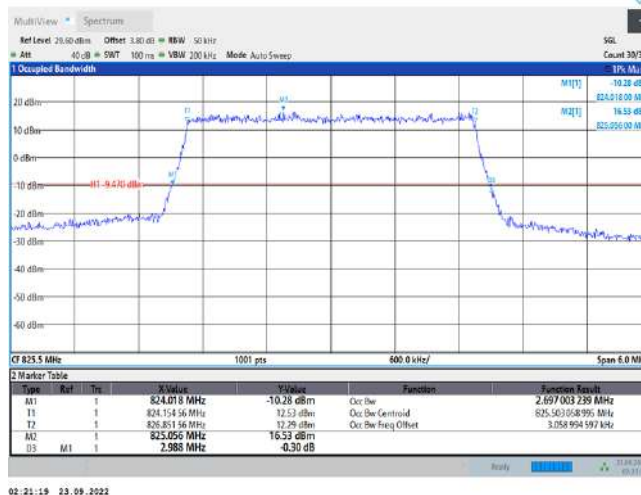
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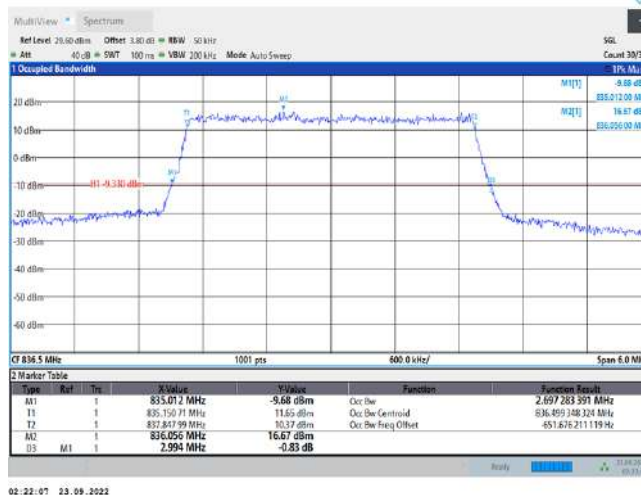
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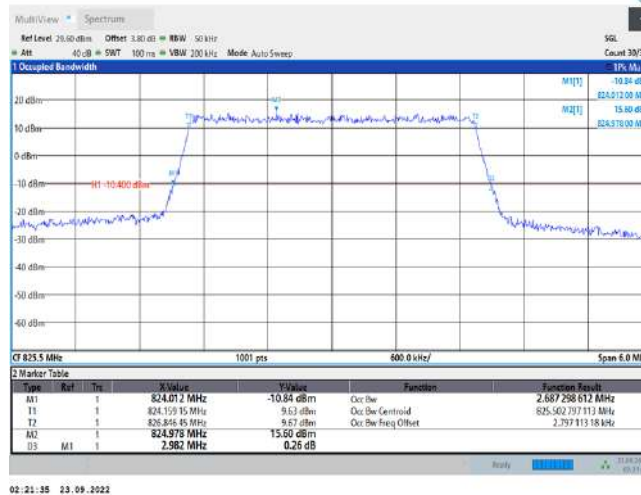
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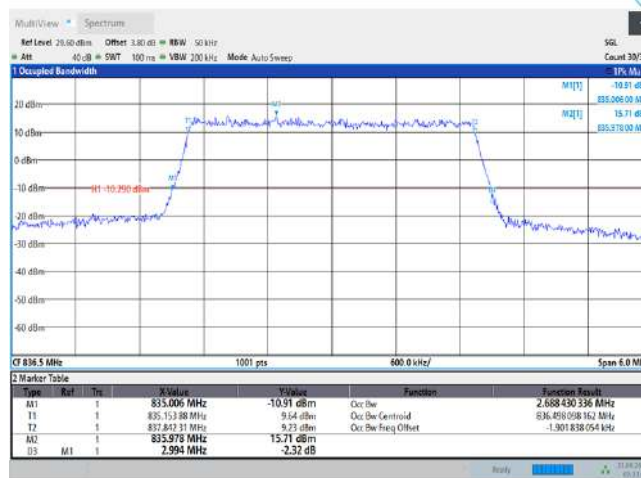
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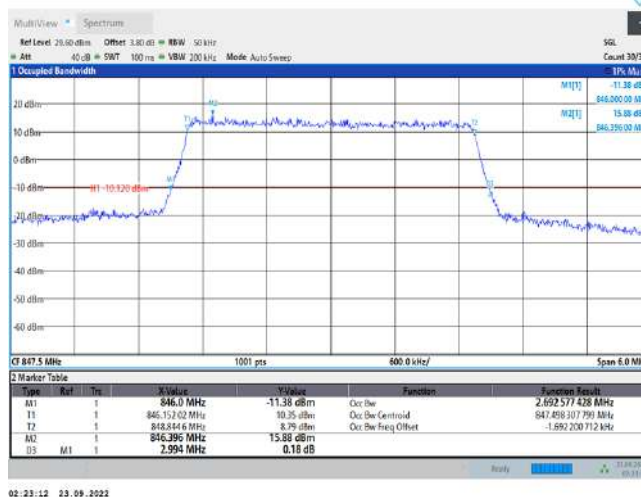
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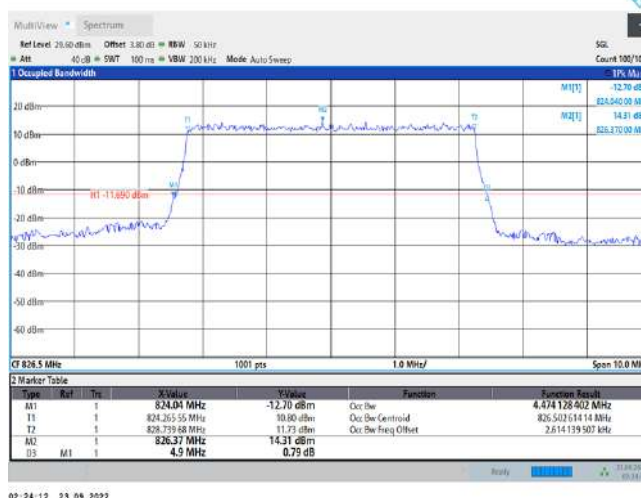
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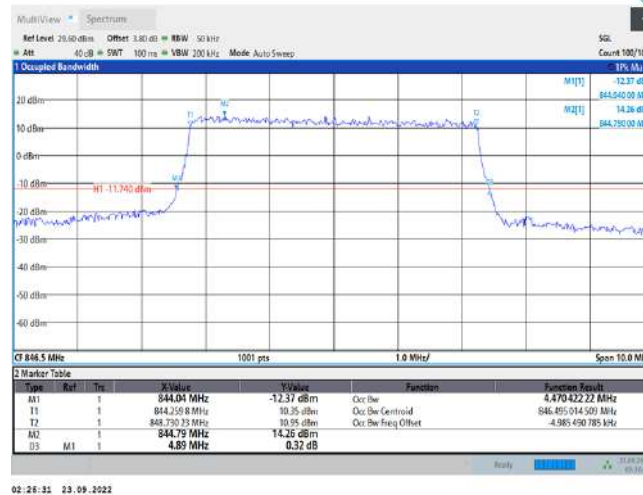
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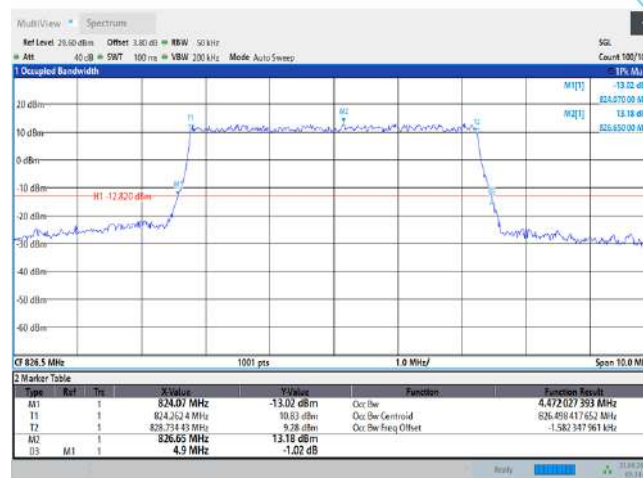
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Band5-5MHz-16QAM-20425-25RB#0



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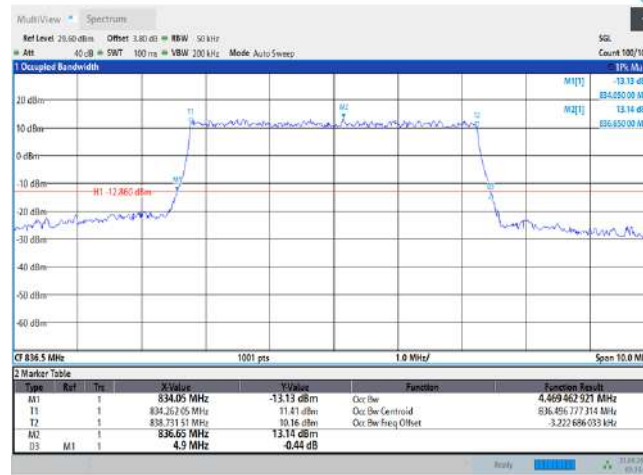
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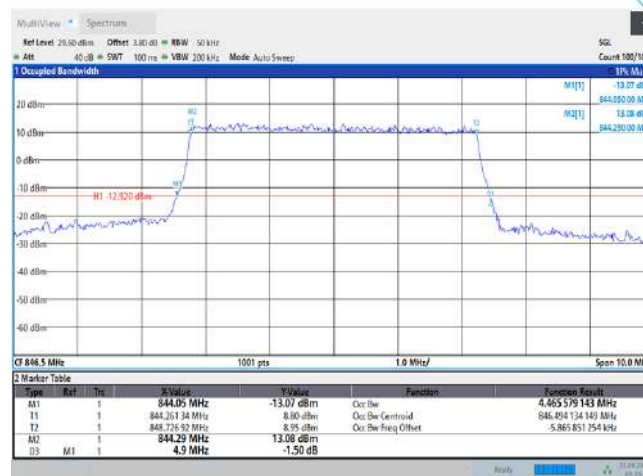
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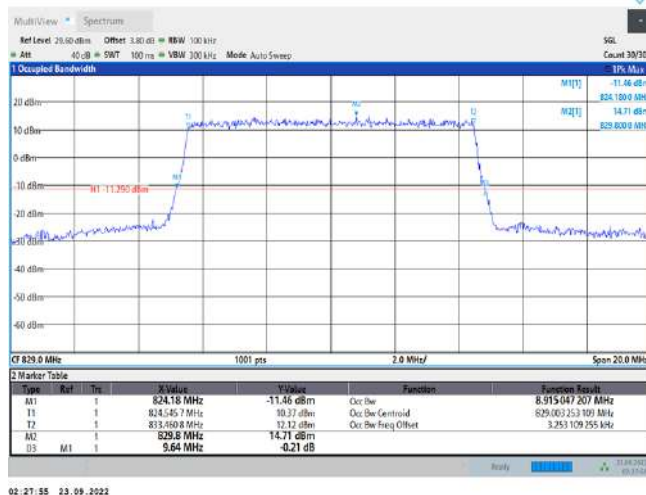
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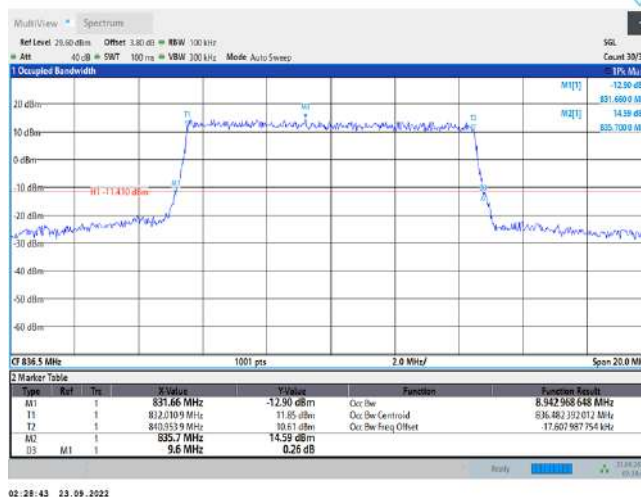
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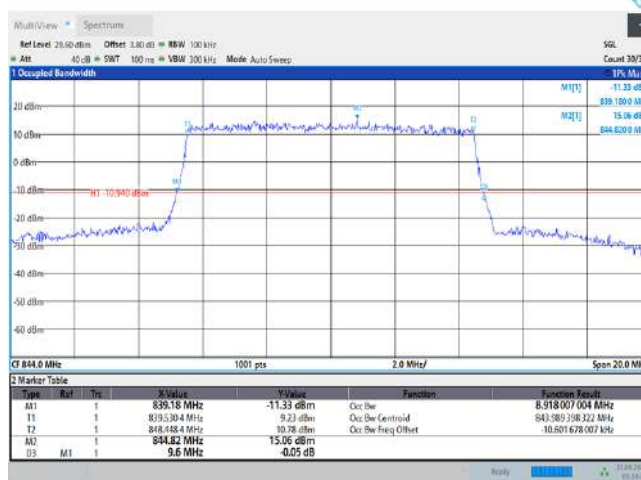
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Band5-10MHz-QPSK-20525-50RB#0



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Band5-10MHz-QPSK-20600-50RB#0



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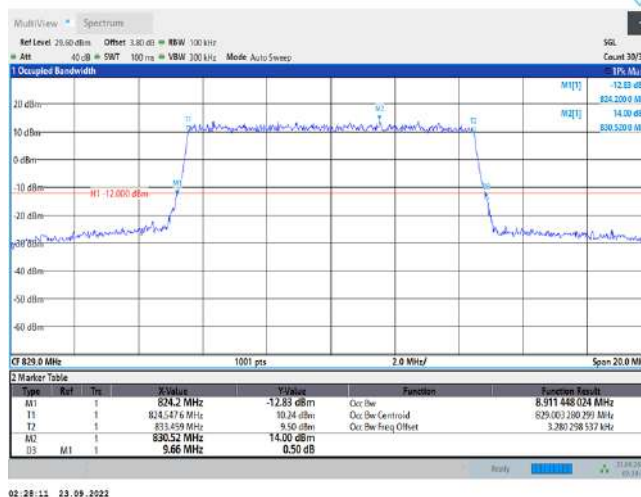
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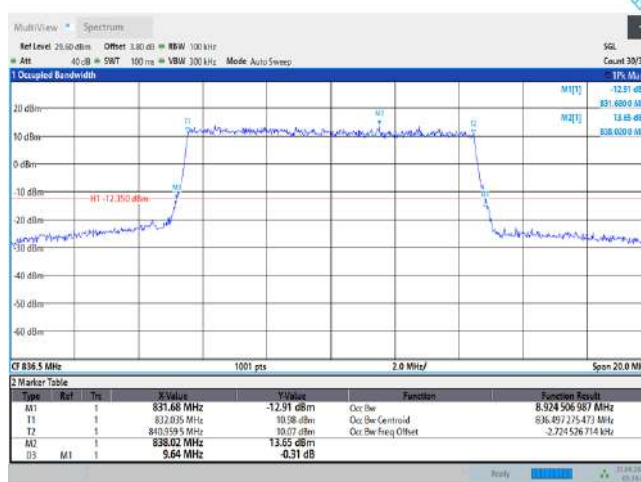
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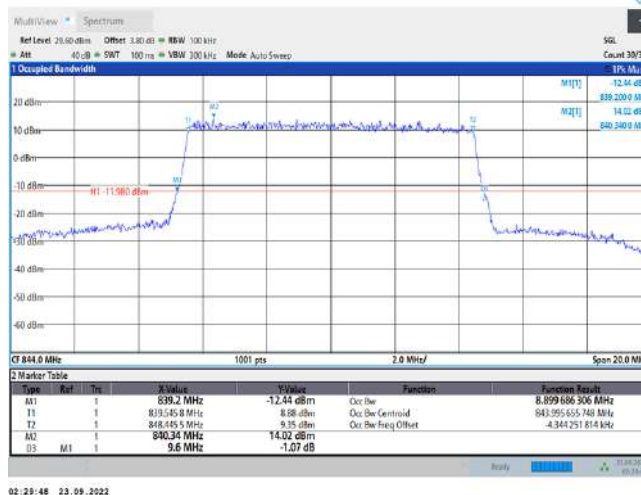
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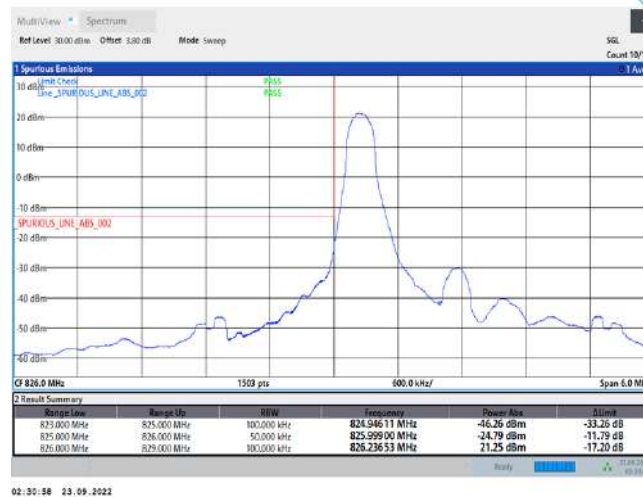
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Band Edge

Test Graphs

Band5-1.4MHz-QPSK-20427-1RB#0



Band5-1.4MHz-QPSK-20427-6RB#0



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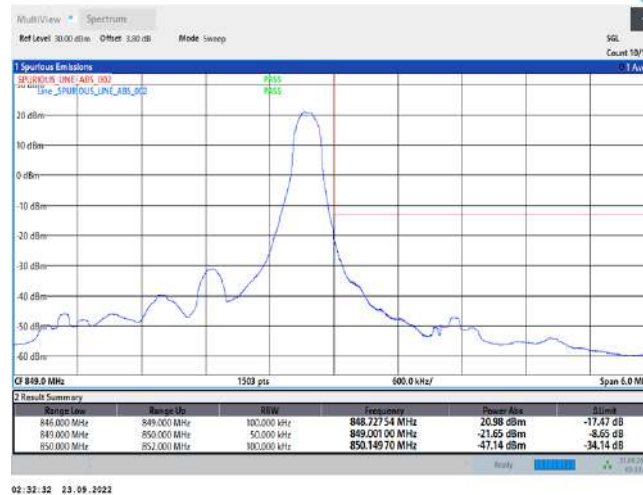
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Band5-1.4MHz-QPSK-20643-1RB#5



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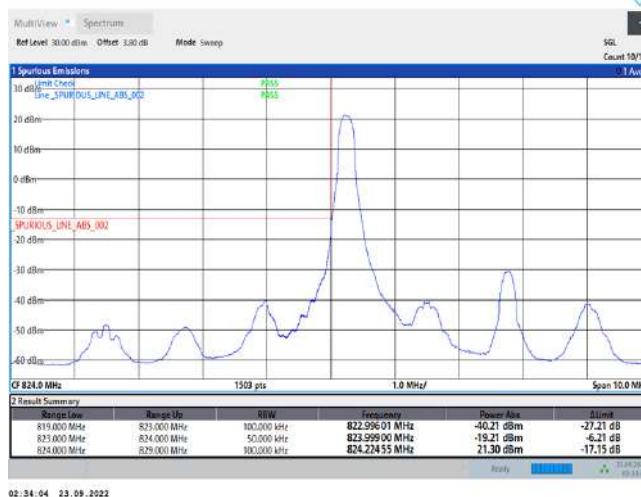
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Band5-3MHz-QPSK-20415-15RB#0



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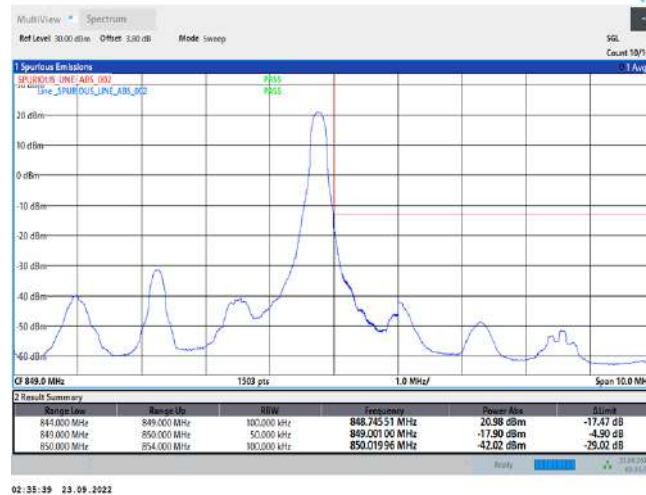
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Band5-3MHz-QPSK-20635-15RB#0



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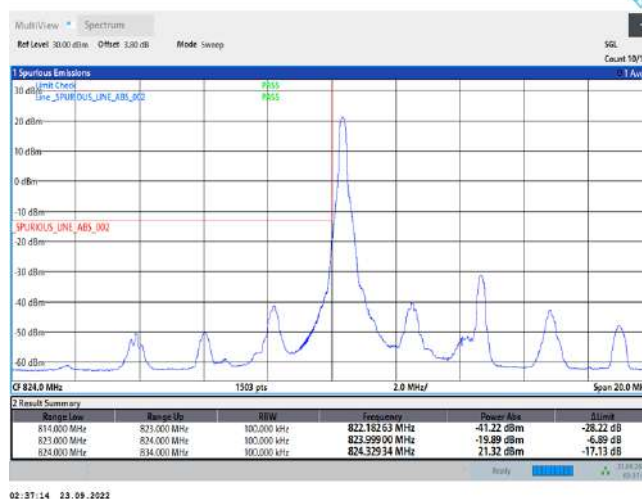
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Band5-5MHz-QPSK-20425-1RB#0



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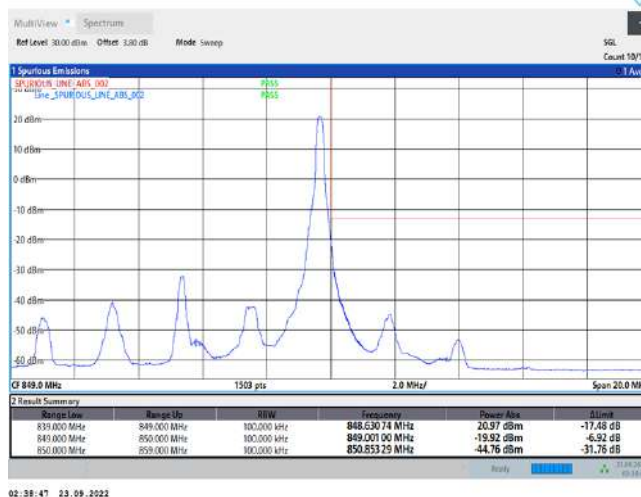
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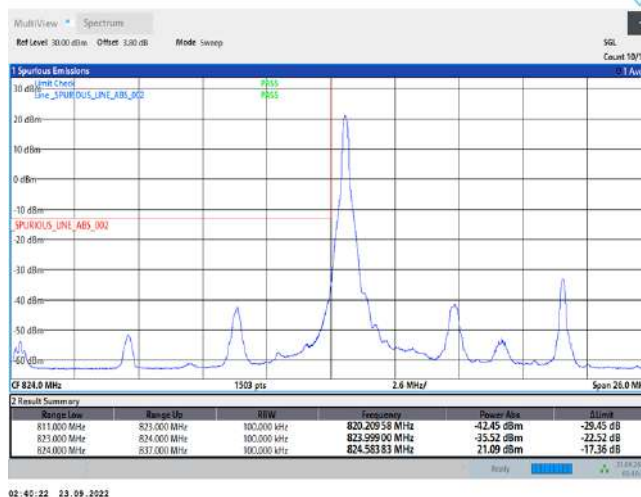
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Band5-10MHz-QPSK-20450-50RB#0



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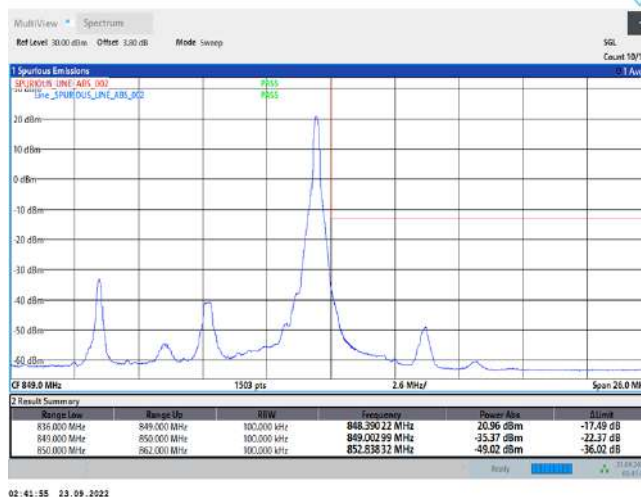
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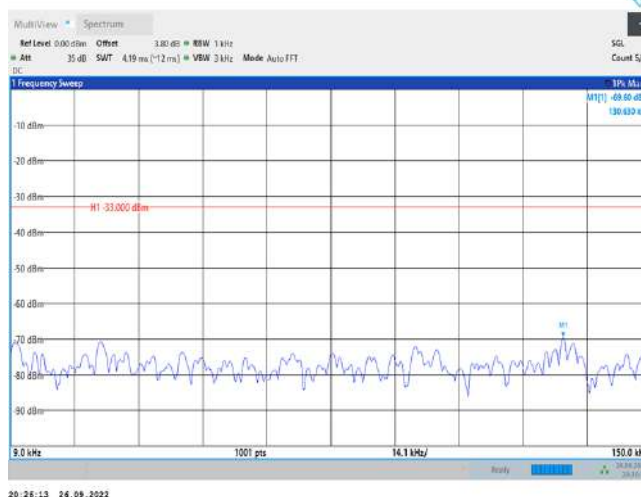
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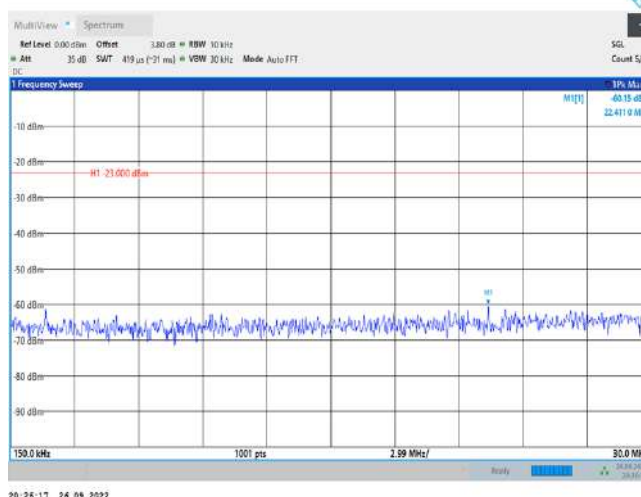
Conducted Spurious Emission

Test Graphs

Band5-10MHz-QPSK-20450-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20450-1RB#0-Range2:0.15~30MHz



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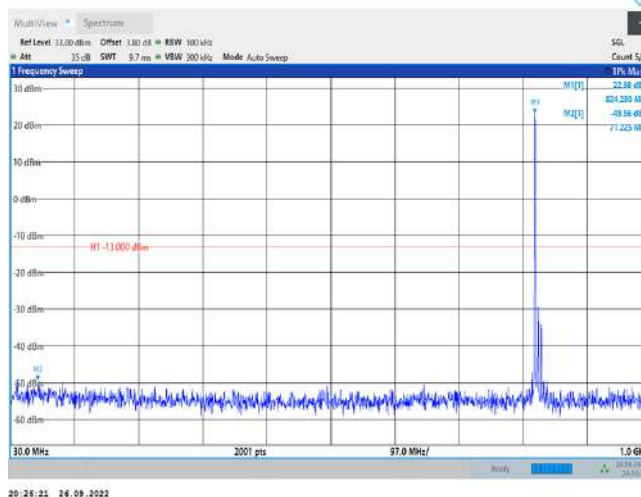
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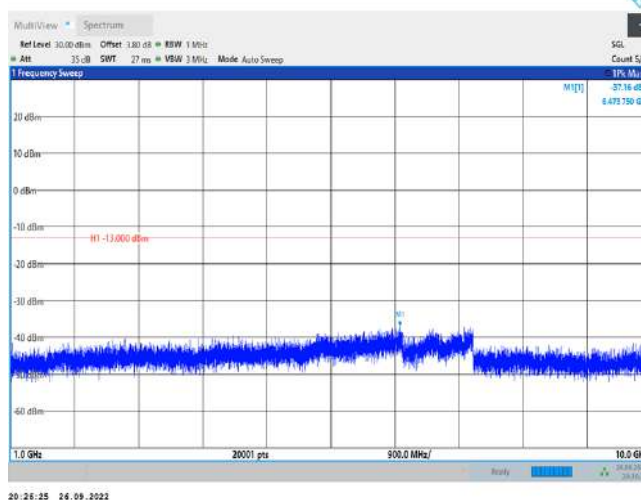
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Band5-10MHz-QPSK-20450-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20450-1RB#0-Range4:1000~10000MHz



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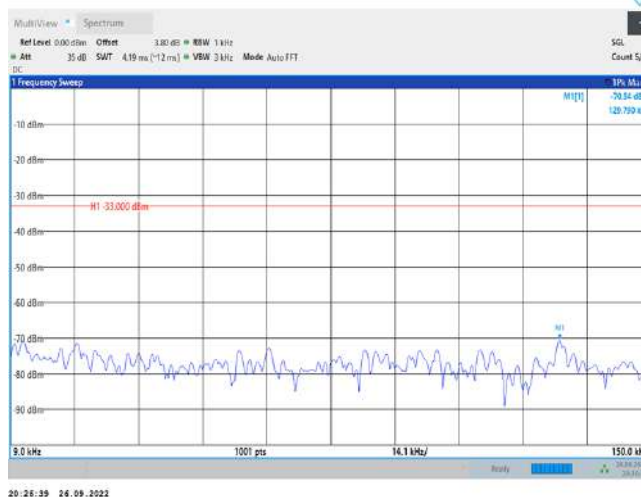
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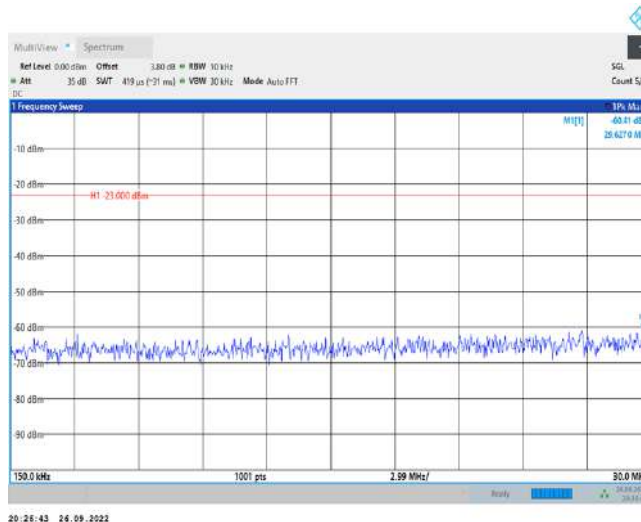
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Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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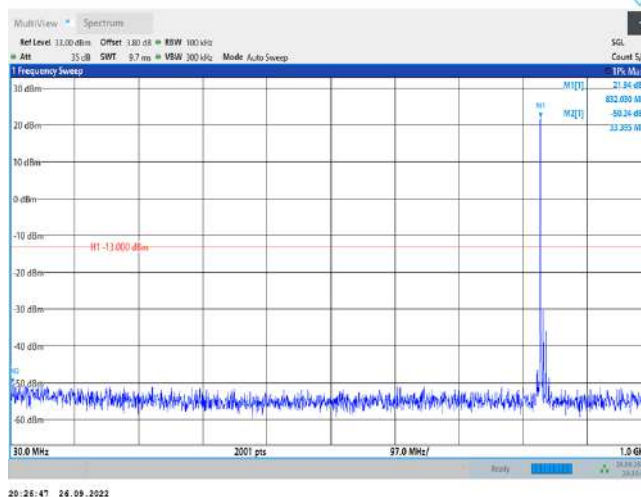
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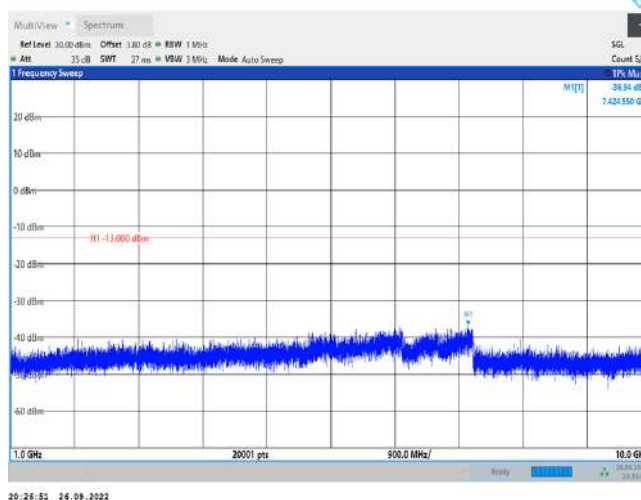
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Band5-10MHz-QPSK-20525-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20525-1RB#0-Range4:1000~10000MHz



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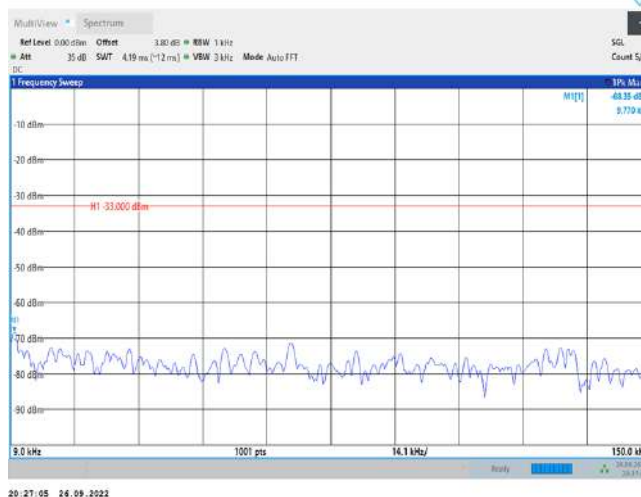
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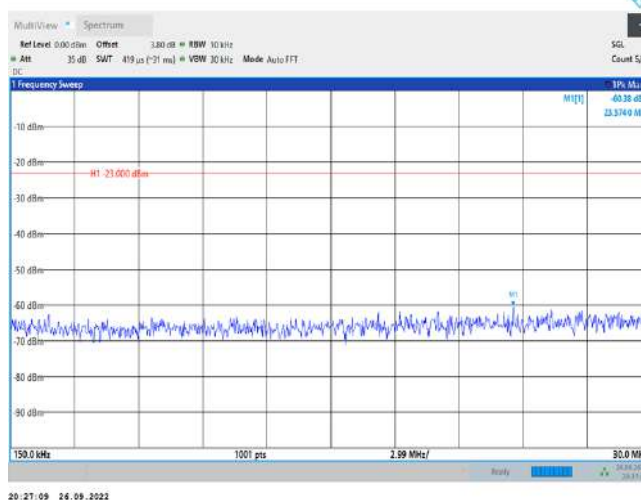
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Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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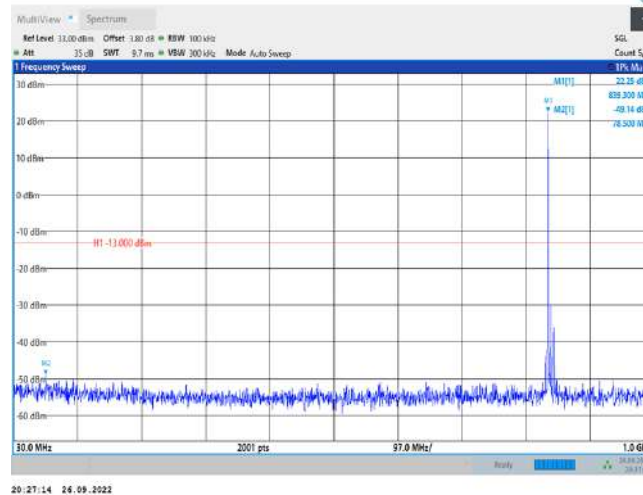
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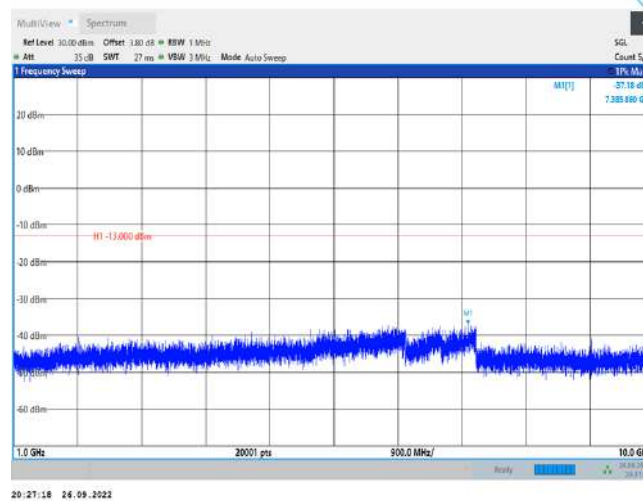
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Band5-10MHz-QPSK-20600-1RB#0-Range3:30~1000MHz



Band5-10MHz-QPSK-20600-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	71.23	-48.22	25.37	-46.88	-13.00	33.88	214	294	Horizontal
2	2473.7700	50.36	-47.32	27.69	-64.53	-13.00	51.53	166	175	Horizontal
3	3298.3600	50.19	-46.68	29.56	-62.19	-13.00	49.19	125	148	Horizontal
4	4122.9500	49.00	-45.91	30.99	-61.19	-13.00	48.19	195	18	Horizontal
5	4947.5400	48.90	-45.69	32.73	-59.32	-13.00	46.32	148	321	Horizontal
6	5772.1300	47.64	-44.64	33.65	-58.61	-13.00	45.61	137	240	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.1429	67.15	-48.22	25.37	-50.96	-13.00	37.96	248	350	Vertical
2	2473.7700	49.60	-47.32	27.69	-65.29	-13.00	52.29	122	329	Vertical
3	3298.3600	50.35	-46.68	29.56	-62.03	-13.00	49.03	168	276	Vertical
4	4122.9500	48.82	-45.91	30.99	-61.37	-13.00	48.37	195	40	Vertical
5	4947.5400	48.28	-45.69	32.73	-59.94	-13.00	46.94	148	117	Vertical
6	5772.1300	47.42	-44.64	33.65	-58.83	-13.00	45.83	133	158	Vertical



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Test Band = LTE Band5_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.1800	68.32	-48.20	25.38	-49.77	-13.00	36.77	284	163	Horizontal
2	2496.2700	50.83	-47.28	27.76	-63.95	-13.00	50.95	145	56	Horizontal
3	3328.3600	49.61	-46.64	29.52	-62.77	-13.00	49.77	168	202	Horizontal
4	4160.4500	49.28	-45.94	31.04	-60.88	-13.00	47.88	126	0	Horizontal
5	4992.5400	48.23	-45.79	32.86	-59.96	-13.00	46.96	135	122	Horizontal
6	5824.6300	47.89	-44.74	33.80	-58.31	-13.00	45.31	177	295	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664	72.14	-48.20	25.38	-45.95	-13.00	32.95	247	350	Vertical
2	2496.2700	49.86	-47.28	27.76	-64.92	-13.00	51.92	132	264	Vertical
3	3328.3600	49.22	-46.64	29.52	-63.16	-13.00	50.16	152	356	Vertical
4	4160.4500	48.35	-45.94	31.04	-61.81	-13.00	48.81	145	330	Vertical
5	4992.5400	47.79	-45.79	32.86	-60.40	-13.00	47.40	126	330	Vertical
6	5824.6300	46.24	-44.74	33.80	-59.96	-13.00	46.96	166	53	Vertical



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Test Band = LTE Band5_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	72.06	-48.18	25.38	-46.00	-13.00	33.00	258	280	Horizontal
2	2518.7700	54.29	-47.21	27.83	-60.34	-13.00	47.34	147	55	Horizontal
3	3358.3600	49.13	-46.60	29.48	-63.25	-13.00	50.25	196	294	Horizontal
4	4197.9500	47.51	-45.96	31.10	-62.61	-13.00	49.61	185	188	Horizontal
5	5037.5400	47.48	-45.65	32.90	-60.53	-13.00	47.53	142	347	Horizontal
6	5887.1300	47.74	-44.93	33.92	-58.53	-13.00	45.53	163	135	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1800	72.76	-48.18	25.38	-45.30	-13.00	32.30	211	4	Vertical
2	2518.7700	50.67	-47.21	27.83	-63.96	-13.00	50.96	152	304	Vertical
3	3358.3600	49.57	-46.60	29.48	-62.81	-13.00	49.81	146	317	Vertical
4	4197.9500	47.12	-45.96	31.10	-63.00	-13.00	50.00	135	356	Vertical
5	5037.5400	47.22	-45.65	32.90	-60.79	-13.00	47.79	168	356	Vertical
6	5887.1300	48.90	-44.93	33.92	-57.37	-13.00	44.37	192	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 5	10MHz	QPSK	20525	50RB#0	VL	NT	1.60	0.001913	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	VN	NT	-2.80	- 0.003347	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	VH	NT	-2.70	- 0.003228	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band 5	10MHz	QPSK	20525	50RB#0	NV	-30	-0.30	- 0.000359	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	-20	-2.60	- 0.003108	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	-10	-0.60	- 0.000717	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	0	0.50	0.000598	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	10	-0.90	- 0.001076	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	20	-4.90	- 0.005858	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	30	-1.50	- 0.001793	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	40	-5.60	- 0.006695	±2.5	PASS
Band 5	10MHz	QPSK	20525	50RB#0	NV	50	-4.50	- 0.005380	±2.5	PASS

---End of Attachment---



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