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Appendix B.5

LTE Band 7



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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
Band7	5MHz	QPSK	20775	1RB#0	23.54	26.54	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.44	26.44	33.00	PASS
Band7	5MHz	QPSK	20775	1RB#24	23.66	26.66	33.00	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.30	25.30	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#0	23.25	26.25	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.22	26.22	33.00	PASS
Band7	5MHz	QPSK	21100	1RB#24	23.18	26.18	33.00	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.15	25.15	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.15	26.15	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.22	26.22	33.00	PASS
Band7	5MHz	QPSK	21425	1RB#24	23.21	26.21	33.00	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.22	25.22	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.42	25.42	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.52	25.52	33.00	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.72	25.72	33.00	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.35	24.35	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.43	25.43	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.51	25.51	33.00	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.20	25.20	33.00	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.26	24.26	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.46	25.46	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.37	25.37	33.00	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.55	25.55	33.00	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.21	24.21	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.56	26.56	33.00	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.54	26.54	33.00	PASS



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Band7	10MHz	QPSK	20800	1RB#49	23.44	26.44	33.00	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.32	25.32	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.32	26.32	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.17	26.17	33.00	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.19	26.19	33.00	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.02	25.02	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.97	25.97	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.10	26.10	33.00	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.16	26.16	33.00	PASS
Band7	10MHz	QPSK	21400	50RB#0	21.99	24.99	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.58	25.58	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.70	25.70	33.00	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.68	25.68	33.00	PASS
Band7	10MHz	16QAM	20800	27RB#0	21.29	24.29	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.62	25.62	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.58	25.58	33.00	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.38	25.38	33.00	PASS
Band7	10MHz	16QAM	21100	27RB#0	21.21	24.21	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.34	25.34	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.42	25.42	33.00	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.66	25.66	33.00	PASS
Band7	10MHz	16QAM	21400	27RB#0	20.99	23.99	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#0	23.47	26.47	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.51	26.51	33.00	PASS
Band7	15MHz	QPSK	20825	1RB#74	23.13	26.13	33.00	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.43	25.43	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.21	26.21	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#38	23.27	26.27	33.00	PASS
Band7	15MHz	QPSK	21100	1RB#74	23.16	26.16	33.00	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.25	25.25	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.95	25.95	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.13	26.13	33.00	PASS
Band7	15MHz	QPSK	21375	1RB#74	23.22	26.22	33.00	PASS



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Band7	15MHz	QPSK	21375	75RB#0	21.96	24.96	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.43	25.43	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.65	25.65	33.00	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.26	25.26	33.00	PASS
Band7	15MHz	16QAM	20825	27RB#0	21.45	24.45	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.59	25.59	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.68	25.68	33.00	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.20	25.20	33.00	PASS
Band7	15MHz	16QAM	21100	27RB#0	21.47	24.47	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.36	25.36	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.55	25.55	33.00	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.54	25.54	33.00	PASS
Band7	15MHz	16QAM	21375	27RB#0	20.96	23.96	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#0	23.51	26.51	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#49	23.37	26.37	33.00	PASS
Band7	20MHz	QPSK	20850	1RB#99	23.20	26.20	33.00	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.28	25.28	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#0	23.16	26.16	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#49	23.31	26.31	33.00	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.95	25.95	33.00	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.27	25.27	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.89	25.89	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#49	23.04	26.04	33.00	PASS
Band7	20MHz	QPSK	21350	1RB#99	23.09	26.09	33.00	PASS
Band7	20MHz	QPSK	21350	100RB#0	21.82	24.82	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.40	25.40	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#49	22.53	25.53	33.00	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.37	25.37	33.00	PASS
Band7	20MHz	16QAM	20850	27RB#0	21.27	24.27	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.64	25.64	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#49	22.73	25.73	33.00	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.02	25.02	33.00	PASS
Band7	20MHz	16QAM	21100	27RB#0	21.24	24.24	33.00	PASS



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Band7	20MHz	16QAM	21350	1RB#0	22.35	25.35	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.42	25.42	33.00	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.40	25.40	33.00	PASS
Band7	20MHz	16QAM	21350	27RB#0	20.77	23.77	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
Band7	20MHz	QPSK	20850	100RB#0	5.34	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.32	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.38	13	PASS
Band7	20MHz	16QAM	20850	27RB#0	6.22	13	PASS
Band7	20MHz	16QAM	21100	27RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21350	27RB#0	6.22	13	PASS



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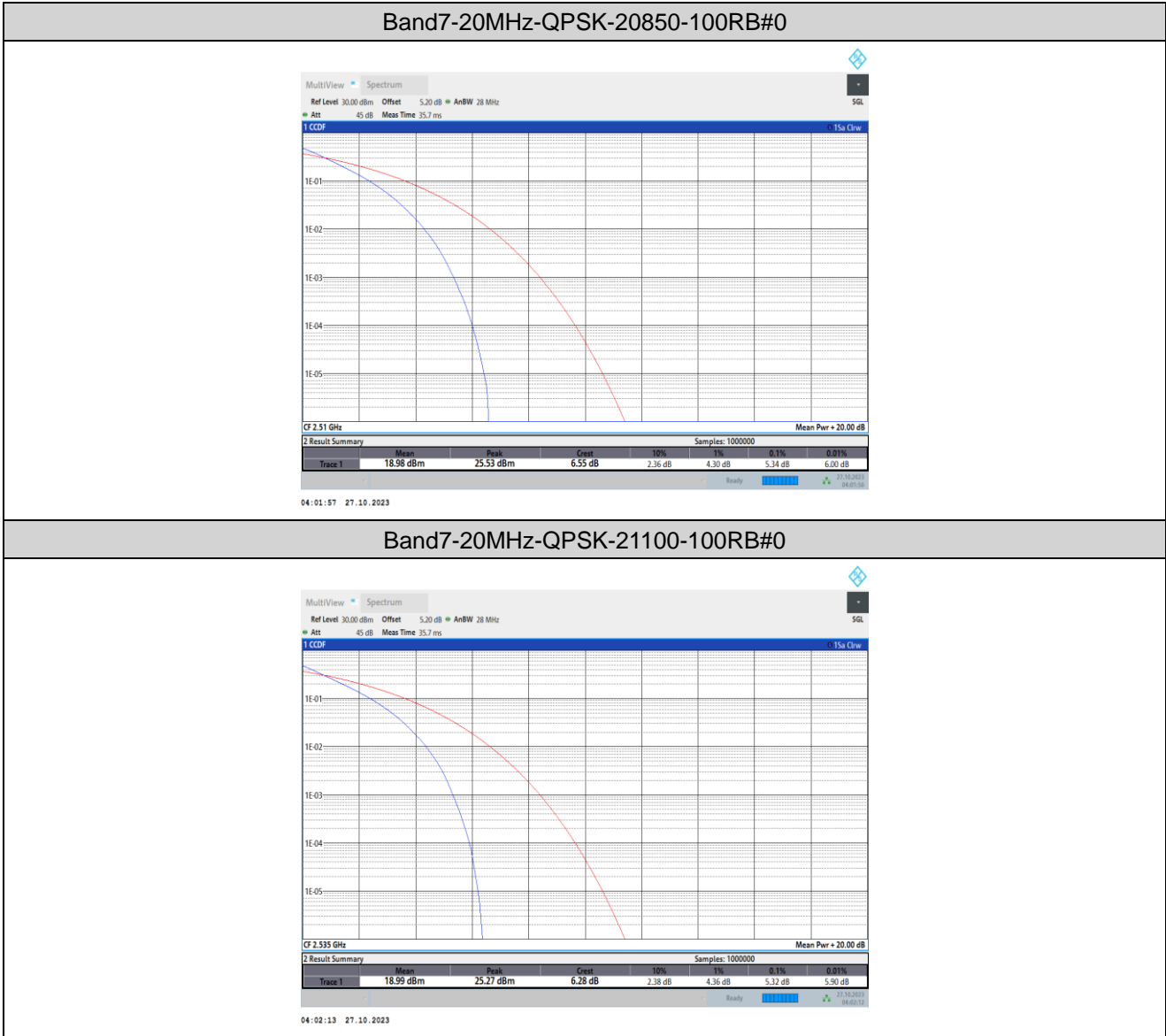
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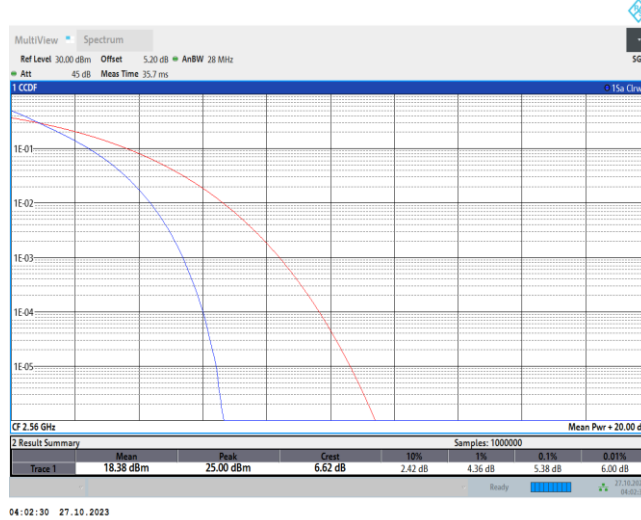
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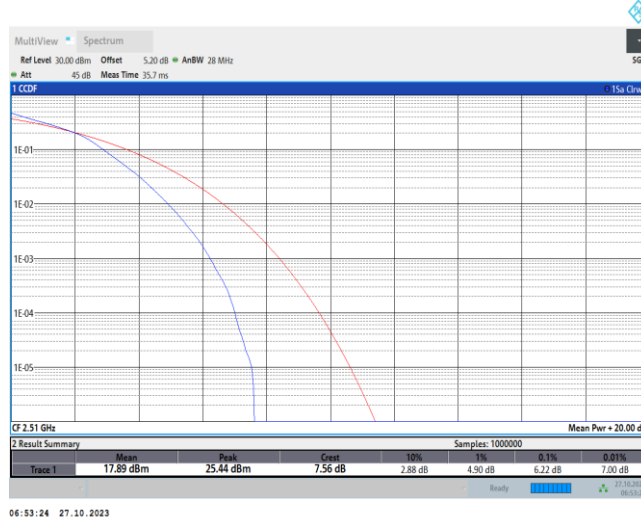
Test Graphs



Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-27RB#0

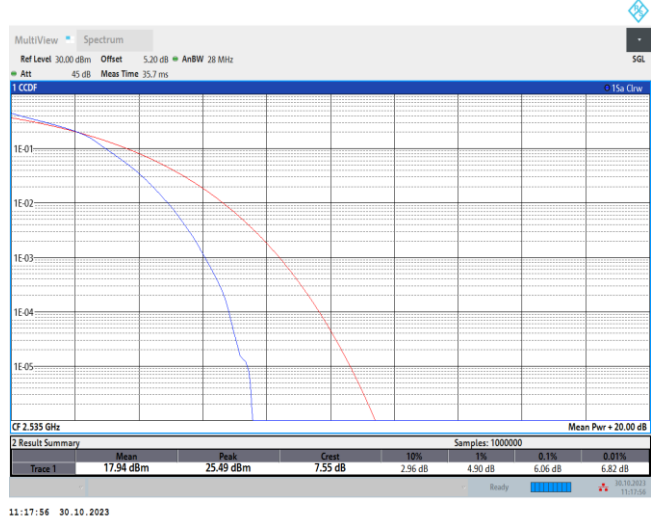


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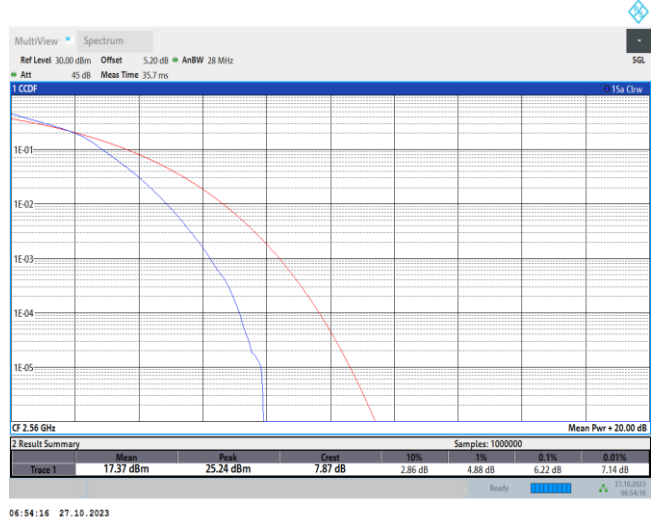
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Band7-20MHz-16QAM-21100-27RB#0



Band7-20MHz-16QAM-21350-27RB#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
Band7	5MHz	QPSK	21100	25RB#0	4.466	4.84	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.467	4.86	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.946	9.60	PASS
Band7	10MHz	16QAM	21100	27RB#0	4.867	5.58	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.473	14.55	PASS
Band7	15MHz	16QAM	21100	27RB#0	5.066	5.94	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.922	19.20	PASS
Band7	20MHz	16QAM	21100	27RB#0	5.104	6.00	PASS

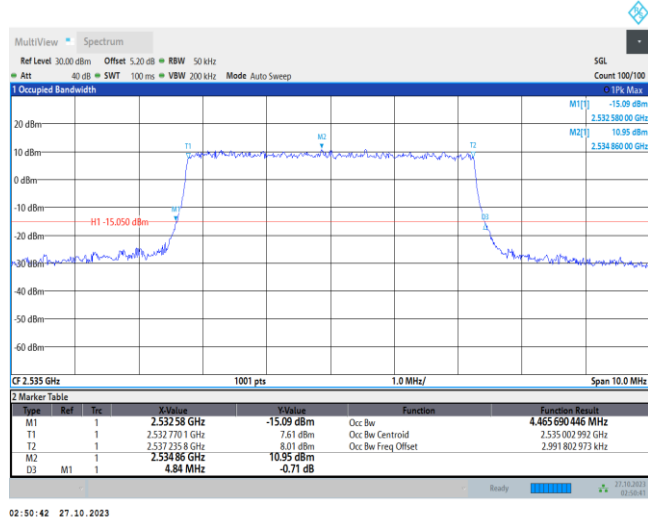


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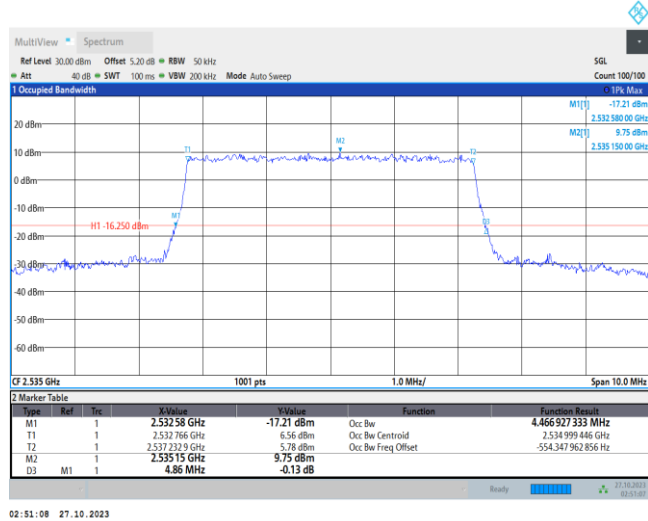
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Test Graphs

Band7-5MHz-QPSK-21100-25RB#0



Band7-5MHz-16QAM-21100-25RB#0

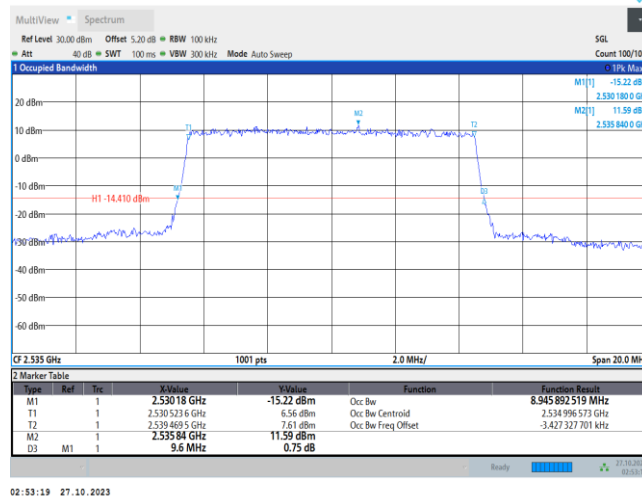


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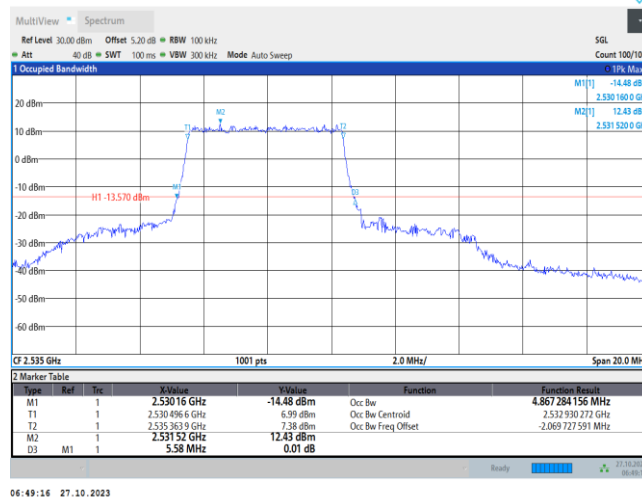
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Band7-10MHz-QPSK-21100-50RB#0



Band7-10MHz-16QAM-21100-27RB#0



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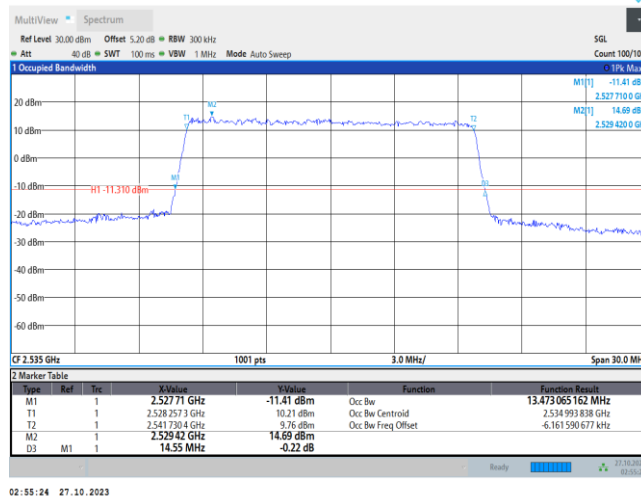
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Wireless Laboratory

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Band7-15MHz-QPSK-21100-75RB#0



Band7-15MHz-16QAM-21100-27RB#0

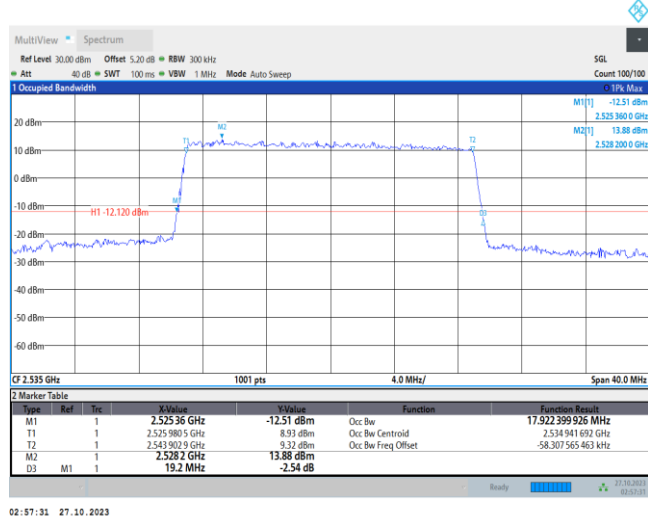


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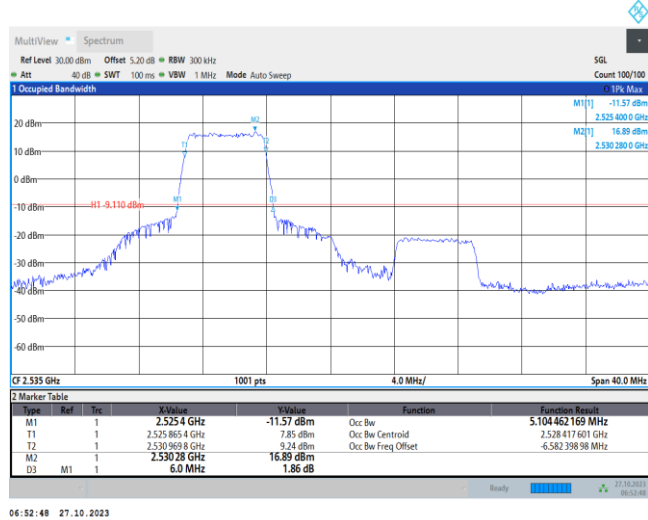
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Band7-20MHz-QPSK-21100-100RB#0



Band7-20MHz-16QAM-21100-27RB#0



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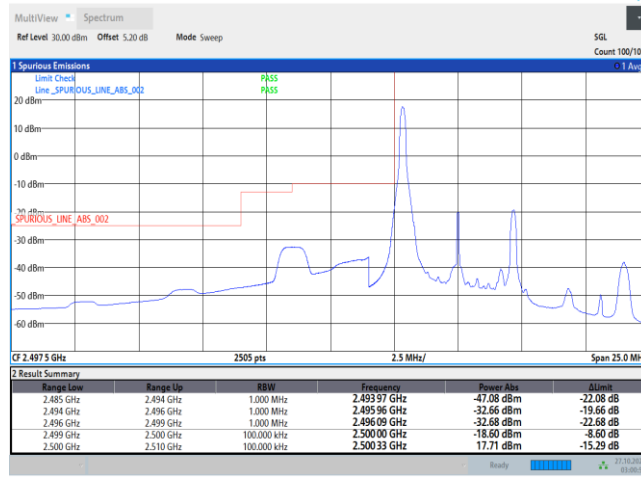
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Band Edge

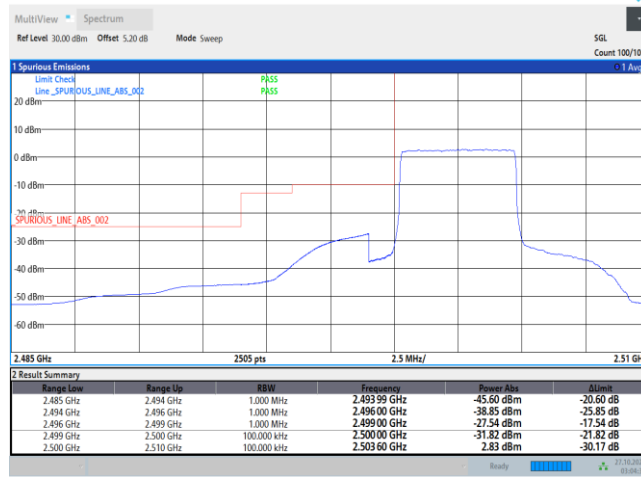
Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



03:00:58 27.10.2023

Band7-5MHz-QPSK-20775-25RB#0



03:04:39 27.10.2023



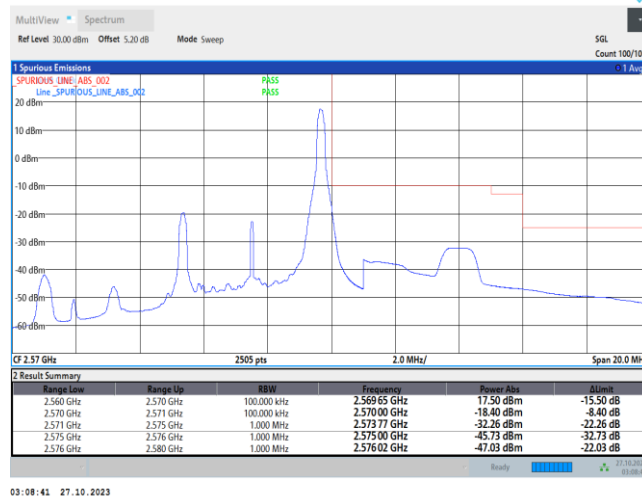
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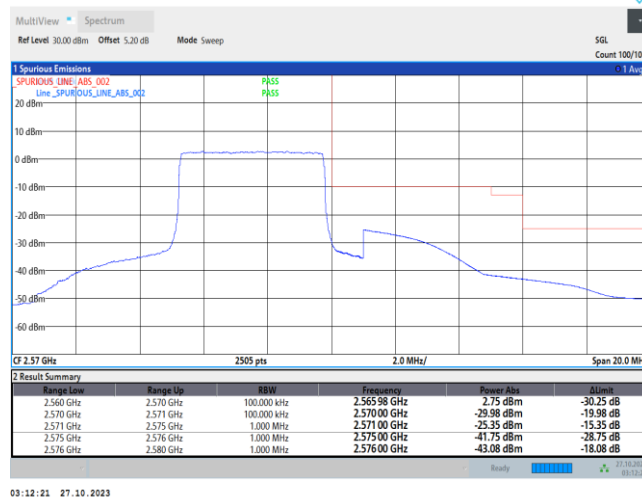
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Band7-5MHz-QPSK-21425-1RB#24

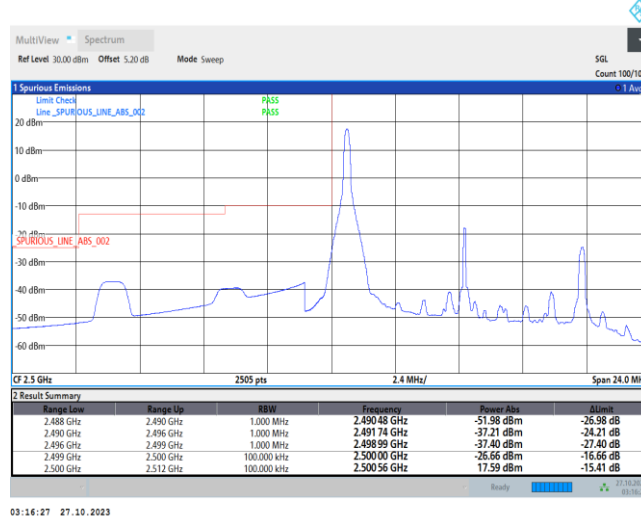


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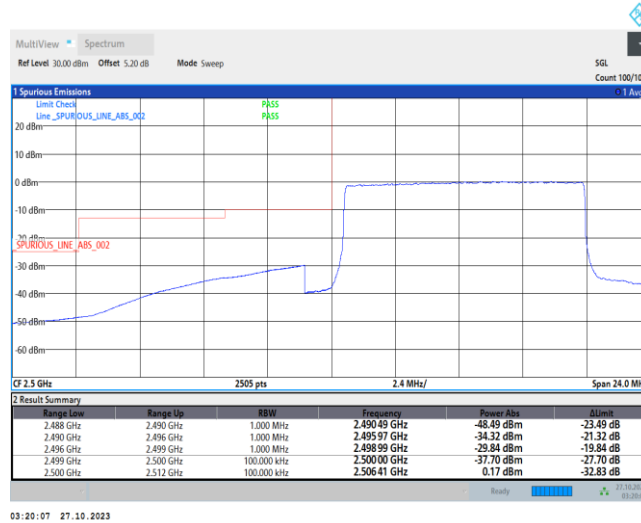


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Band7-10MHz-QPSK-20800-1RB#0



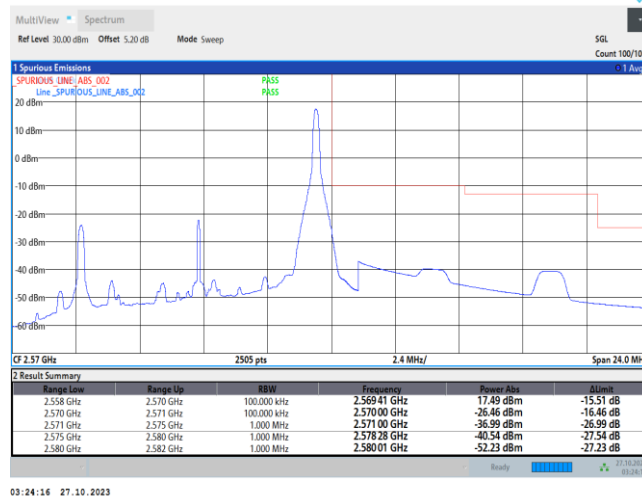
Band7-10MHz-QPSK-20800-50RB#0



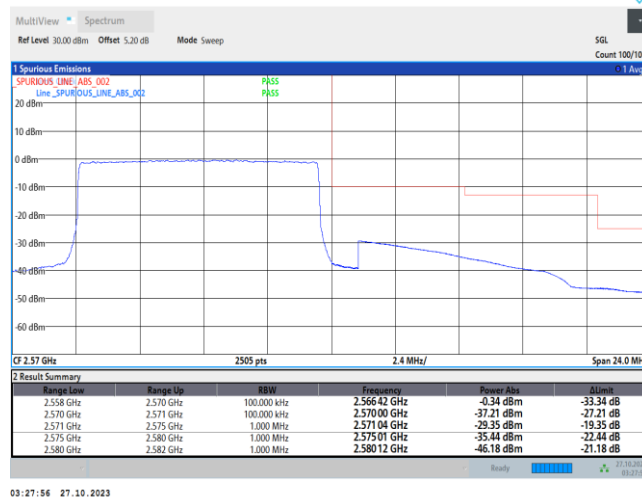
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Band7-10MHz-QPSK-21400-1RB#49



Band7-10MHz-QPSK-21400-50RB#0



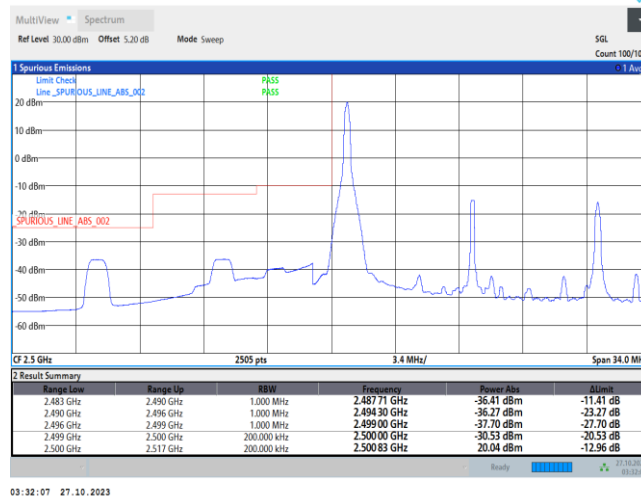
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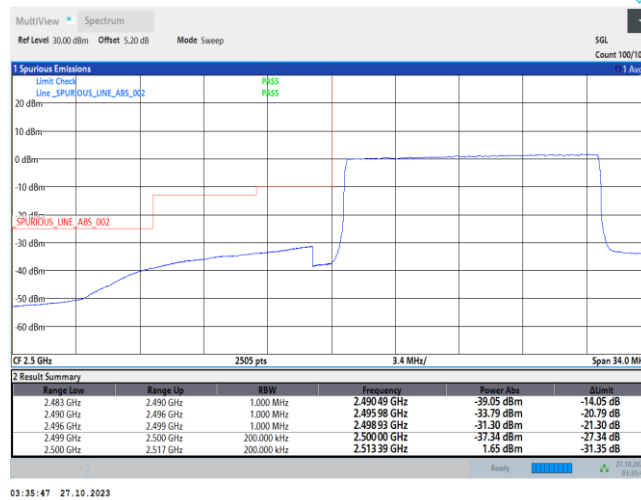
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Band7-15MHz-QPSK-20825-1RB#0



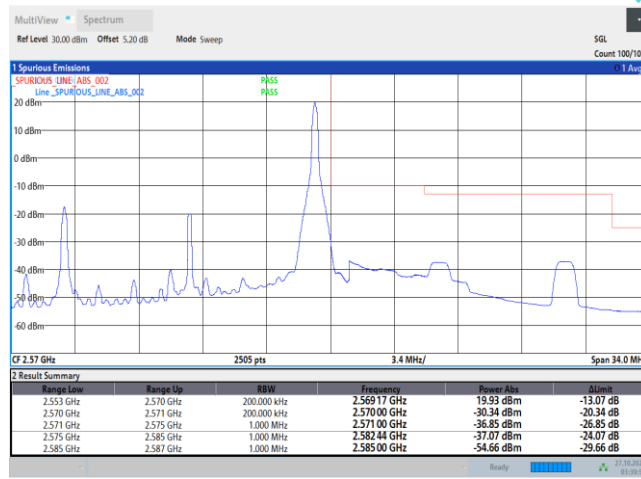
Band7-15MHz-QPSK-20825-75RB#0



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Band7-15MHz-QPSK-21375-1RB#74



03:39:57 27.10.2023

Band7-15MHz-QPSK-21375-75RB#0



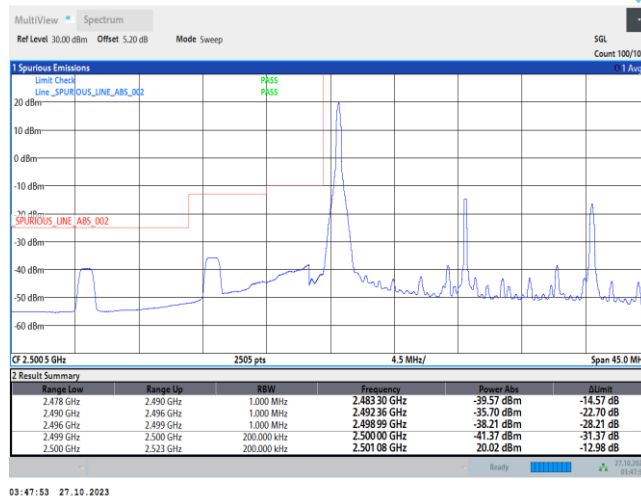
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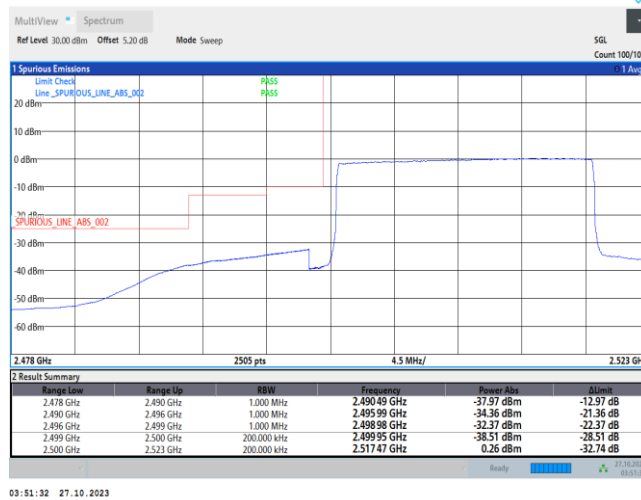
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Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-20850-100RB#0

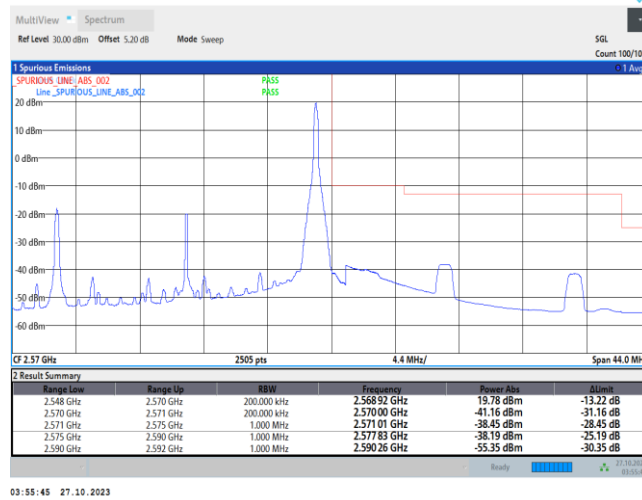


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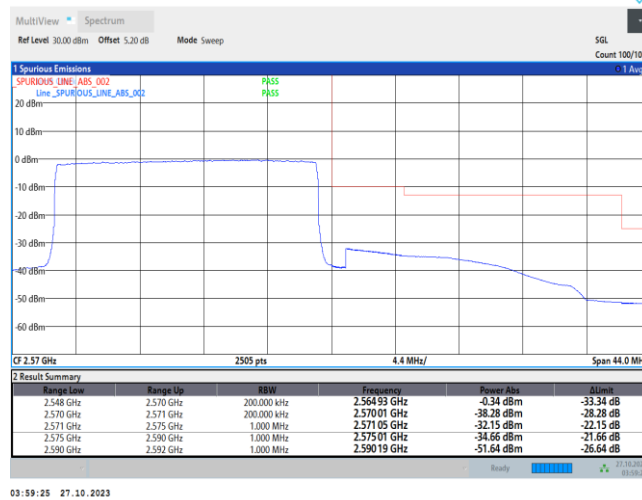
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Band7-20MHz-QPSK-21350-1RB#99



Band7-20MHz-QPSK-21350-100RB#0



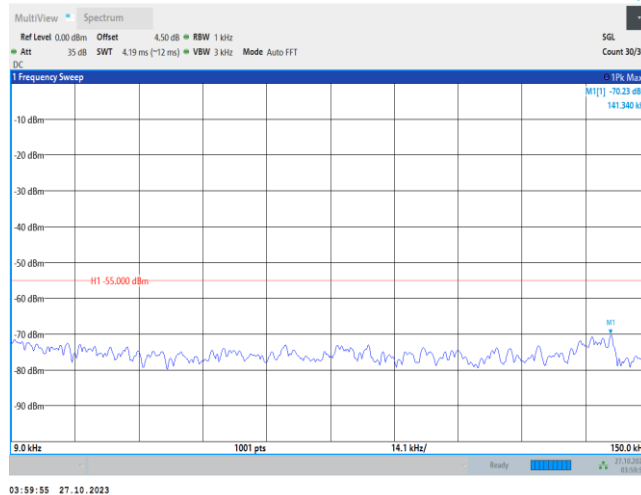
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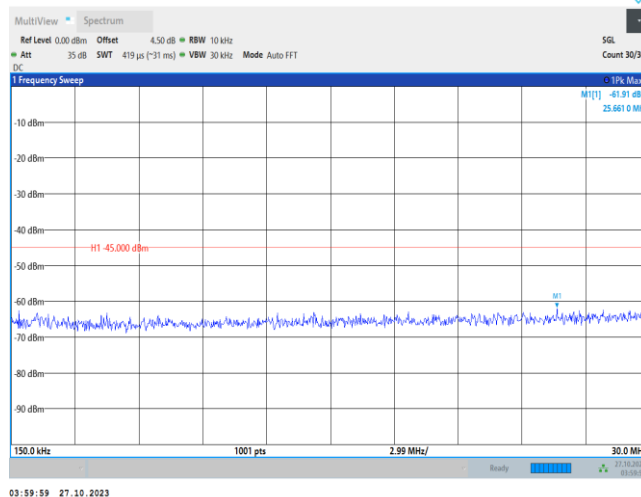
Conducted Spurious Emission

Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



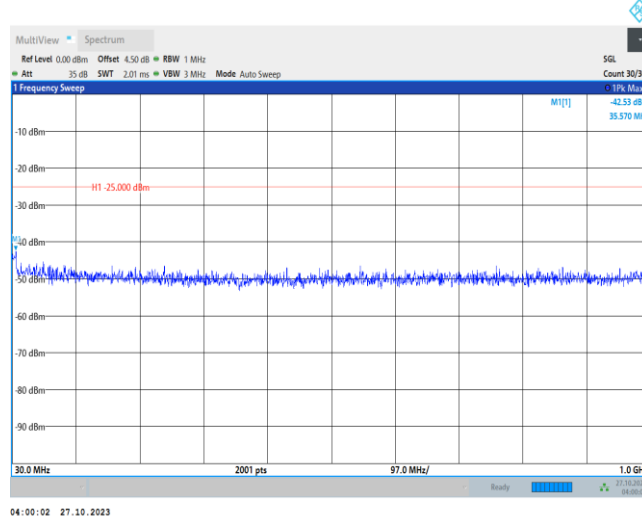
Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



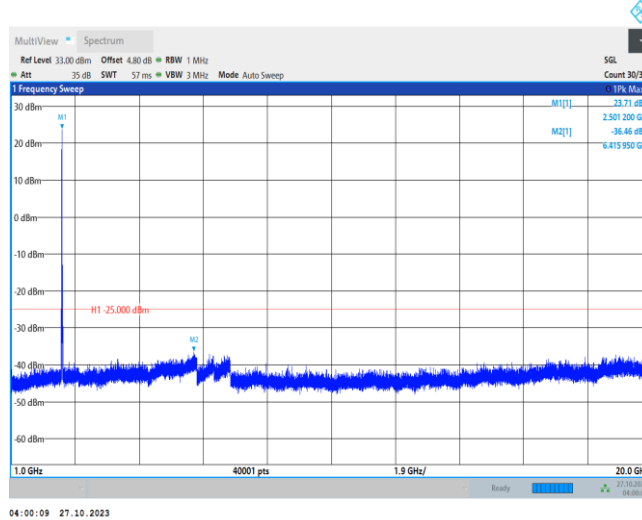
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Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz

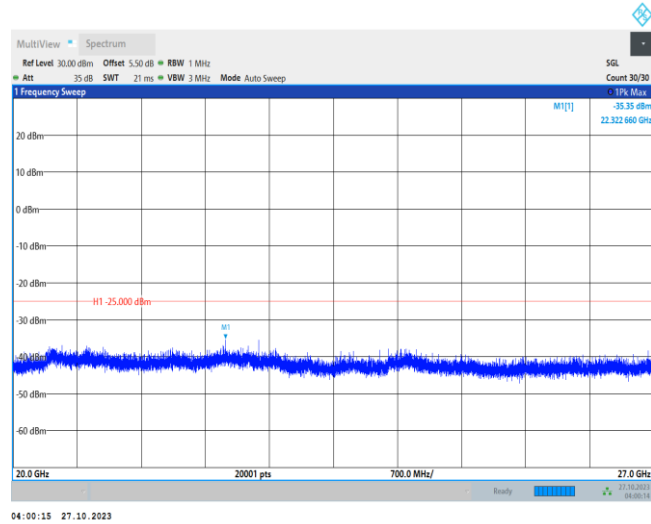


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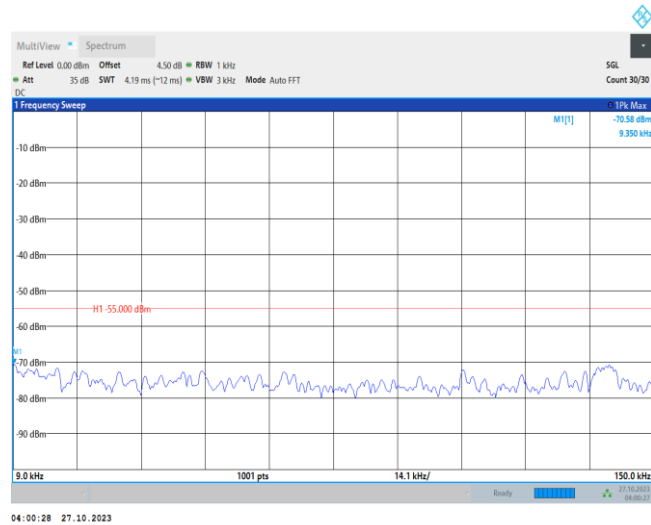
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz

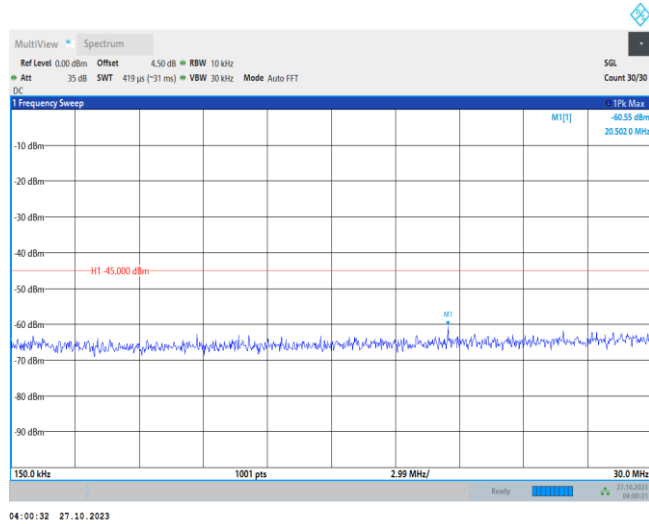


Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz

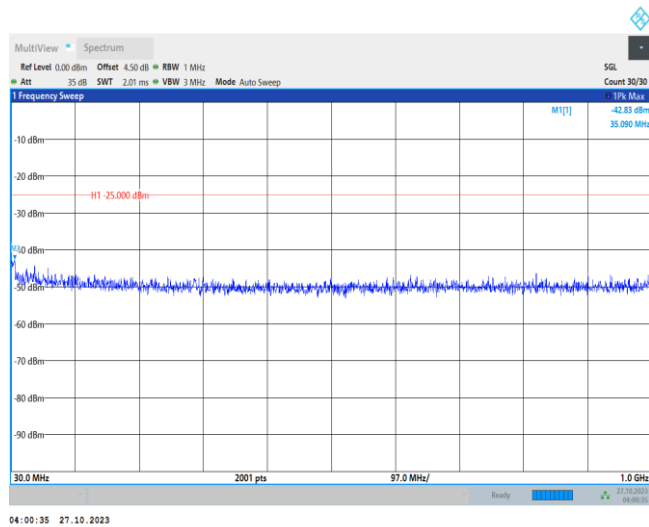


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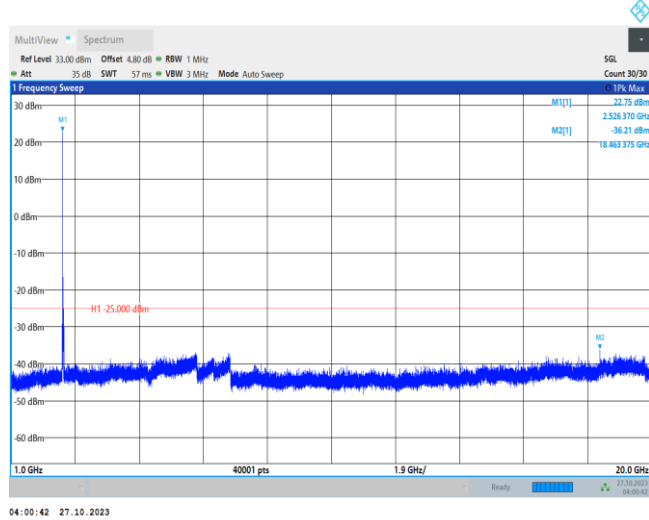
Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



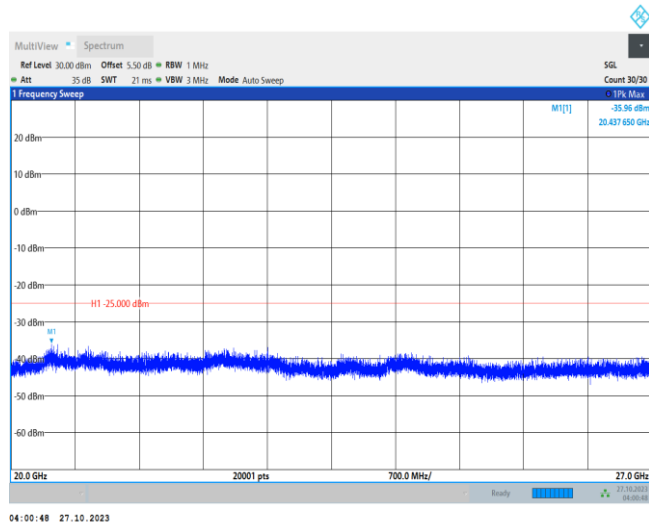
Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



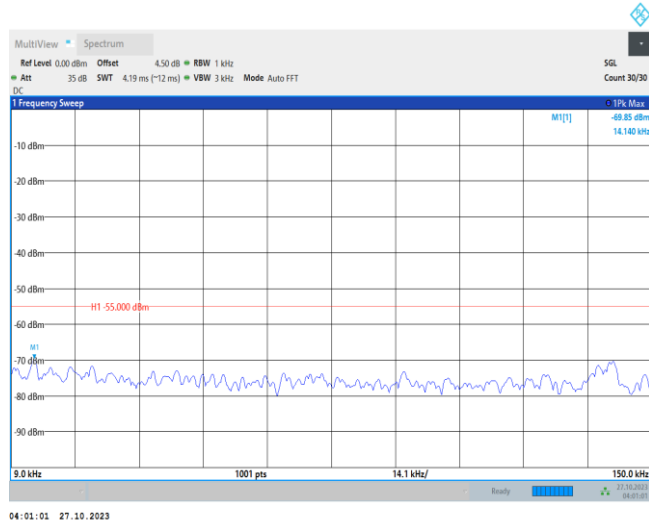
Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



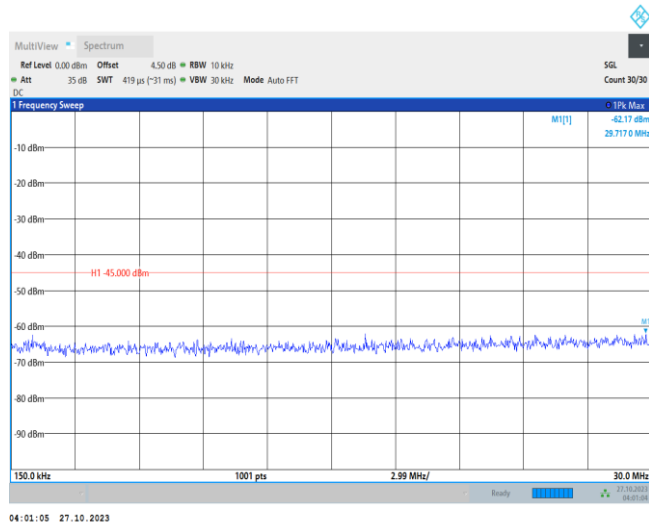
Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



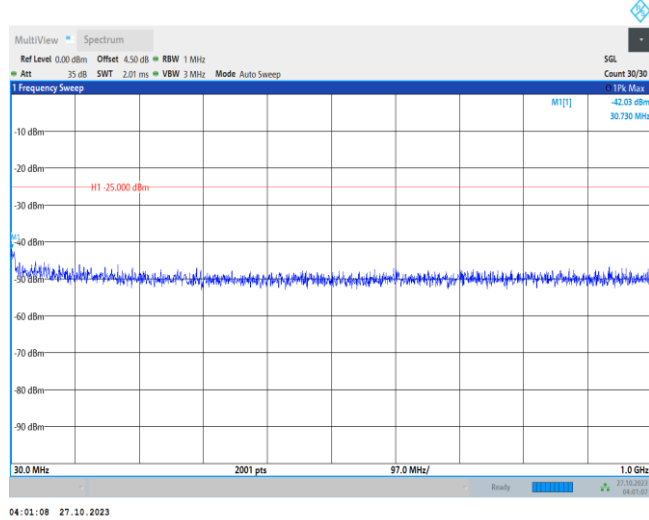
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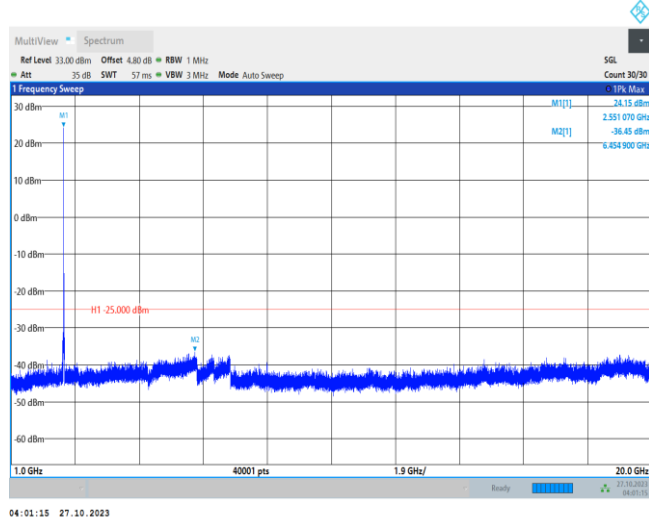
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz

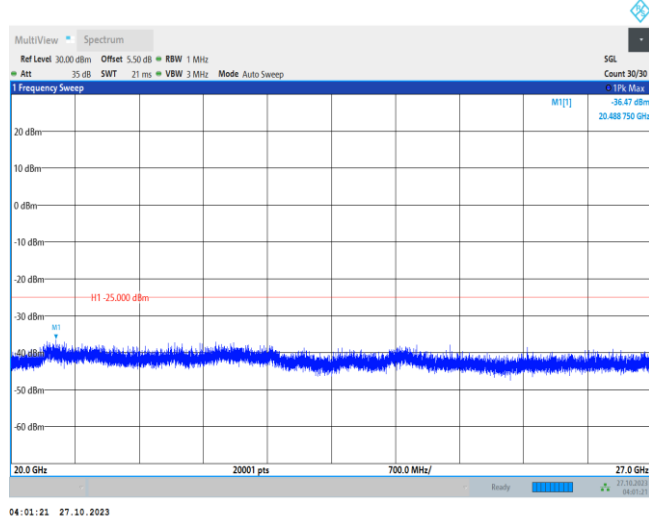


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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 7_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5011.5	53.83	-47.99	31.53	-57.89	-25.00	32.89	Horizontal
2	7516.5	53.27	-45.91	36.78	-51.12	-25.00	26.12	Horizontal
3	10004.36	39.64	-41.71	38.50	-58.82	-25.00	33.82	Horizontal
4	12505.45	36.48	-39.84	38.90	-59.72	-25.00	34.72	Horizontal
5	15006.54	36.03	-38.03	40.09	-57.18	-25.00	32.18	Horizontal
6	17507.63	36.19	-36.82	42.15	-53.74	-25.00	28.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5011	55.86	-47.99	31.53	-55.86	-25.00	30.86	Vertical
2	7516.5	57.00	-45.91	36.78	-47.39	-25.00	22.39	Vertical
3	10022.5	42.81	-41.74	38.52	-55.67	-25.00	30.67	Vertical
4	12505.45	36.66	-39.84	38.90	-59.54	-25.00	34.54	Vertical
5	15006.54	37.01	-38.03	40.09	-56.20	-25.00	31.20	Vertical
6	17507.63	35.17	-36.82	42.15	-54.76	-25.00	29.76	Vertical



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Test Band = LTE Band 7_ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5061	51.09	-47.89	31.65	-60.42	-25.00	35.42	Horizontal
2	7592	50.88	-44.70	36.69	-52.39	-25.00	27.39	Horizontal
3	10104.36	39.05	-41.88	38.59	-59.50	-25.00	34.50	Horizontal
4	12630.45	36.18	-39.08	38.82	-59.33	-25.00	34.33	Horizontal
5	15156.54	36.37	-37.42	39.80	-56.51	-25.00	31.51	Horizontal
6	17682.63	35.70	-37.64	43.27	-53.93	-25.00	28.93	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5061	53.91	-47.89	31.65	-57.60	-25.00	32.60	Vertical
2	7591.5	54.43	-44.71	36.69	-48.85	-25.00	23.85	Vertical
3	10122.5	42.70	-41.93	38.61	-55.88	-25.00	30.88	Vertical
4	12653	44.43	-39.14	38.81	-51.16	-25.00	26.16	Vertical
5	15183.5	38.76	-36.94	39.75	-53.69	-25.00	28.69	Vertical
6	17682.63	35.38	-37.64	43.27	-54.25	-25.00	29.25	Vertical



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Test Band = LTE Band 7_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5111	55.50	-47.83	31.77	-55.82	-25.00	30.82	Horizontal
2	7666.5	56.36	-45.00	36.60	-47.30	-25.00	22.30	Horizontal
3	10204.36	38.36	-42.10	38.68	-60.31	-25.00	35.31	Horizontal
4	12755.45	37.89	-39.29	38.75	-57.91	-25.00	32.91	Horizontal
5	15306.54	35.54	-37.87	39.52	-58.07	-25.00	33.07	Horizontal
6	17857.63	35.07	-36.85	44.39	-52.65	-25.00	27.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5111	56.28	-47.83	31.77	-55.04	-25.00	30.04	Vertical
2	7666.5	61.51	-45.00	36.60	-42.15	-25.00	17.15	Vertical
3	15333.5	42.21	-37.69	39.47	-51.27	-25.00	26.27	Vertical
4	10204.36	38.67	-42.10	38.68	-60.00	-25.00	35.00	Vertical
5	12755.45	36.82	-39.29	38.75	-58.98	-25.00	33.98	Vertical
6	17857.63	34.87	-36.85	44.39	-52.85	-25.00	27.85	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 Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-15.10	-0.005957	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-20.00	-0.007890	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	3.10	0.001223	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-11.70	-0.004615	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-2.50	-0.000986	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-19.60	-0.007732	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-3.20	-0.001262	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-10.00	-0.003945	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-3.70	-0.001460	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	13.50	0.005325	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	3.00	0.001183	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	1.30	0.000513	PASS

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