



Report No.: SUHR/2022/1001001

Rev.: 01

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Appendix



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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	22.76	21.08	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	22.64	20.96	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.57	20.89	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.67	20.99	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.36	20.68	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.30	20.62	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.28	20.60	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.43	20.75	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.47	20.79	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.85	21.17	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.36	20.68	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.56	20.88	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	22.21	20.53	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.70	21.02	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.53	20.85	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	21.64	19.96	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.33	20.65	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.41	20.73	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.33	20.65	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.57	19.89	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.69	21.01	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.47	20.79	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	22.14	20.46	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.54	19.86	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	22.80	21.12	33	PASS



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Band7	10MHz	QPSK	20800	1RB#24	22.83	21.15	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.58	20.90	33	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.74	21.06	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	22.54	20.86	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	22.76	21.08	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	22.43	20.75	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.50	20.82	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	22.62	20.94	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	22.96	21.28	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.55	20.87	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.66	20.98	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.69	21.01	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.62	20.94	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	22.47	20.79	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.71	20.03	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.45	20.77	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	22.93	21.25	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.78	21.10	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.65	19.97	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.57	20.89	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.52	20.84	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.46	20.78	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.38	19.70	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.83	21.15	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	22.65	20.97	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.53	20.85	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22.71	21.03	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	22.47	20.79	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	22.63	20.95	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.39	20.71	33	PASS



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Band7	15MHz	QPSK	21100	75RB#0	22.54	20.86	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	22.57	20.89	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	22.77	21.09	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.50	20.82	33	PASS
Band7	15MHz	QPSK	21375	75RB#0	22.58	20.90	33	PASS
Band7	15MHz	16QAM	20825	1RB#0	22.60	20.92	33	PASS
Band7	15MHz	16QAM	20825	1RB#38	22.55	20.87	33	PASS
Band7	15MHz	16QAM	20825	1RB#74	22.79	21.11	33	PASS
Band7	15MHz	16QAM	20825	75RB#0	21.67	19.99	33	PASS
Band7	15MHz	16QAM	21100	1RB#0	22.59	20.91	33	PASS
Band7	15MHz	16QAM	21100	1RB#38	22.25	20.57	33	PASS
Band7	15MHz	16QAM	21100	1RB#74	22.32	20.64	33	PASS
Band7	15MHz	16QAM	21100	75RB#0	21.58	19.90	33	PASS
Band7	15MHz	16QAM	21375	1RB#0	22.86	21.18	33	PASS
Band7	15MHz	16QAM	21375	1RB#38	22.54	20.86	33	PASS
Band7	15MHz	16QAM	21375	1RB#74	22.48	20.80	33	PASS
Band7	15MHz	16QAM	21375	75RB#0	21.64	19.96	33	PASS
Band7	20MHz	QPSK	20850	1RB#0	22.82	21.14	33	PASS
Band7	20MHz	QPSK	20850	1RB#49	22.98	21.30	33	PASS
Band7	20MHz	QPSK	20850	1RB#99	22.36	20.68	33	PASS
Band7	20MHz	QPSK	20850	100RB#0	22.67	20.99	33	PASS
Band7	20MHz	QPSK	21100	1RB#0	22.51	20.83	33	PASS
Band7	20MHz	QPSK	21100	1RB#49	22.77	21.09	33	PASS
Band7	20MHz	QPSK	21100	1RB#99	22.36	20.68	33	PASS
Band7	20MHz	QPSK	21100	100RB#0	22.49	20.81	33	PASS
Band7	20MHz	QPSK	21350	1RB#0	22.50	20.82	33	PASS
Band7	20MHz	QPSK	21350	1RB#49	22.67	20.99	33	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.48	20.80	33	PASS
Band7	20MHz	QPSK	21350	100RB#0	22.63	20.95	33	PASS
Band7	20MHz	16QAM	20850	1RB#0	22.47	20.79	33	PASS



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Band7	20MHz	16QAM	20850	1RB#49	22.43	20.75	33	PASS
Band7	20MHz	16QAM	20850	1RB#99	22.39	20.71	33	PASS
Band7	20MHz	16QAM	20850	100RB#0	21.79	20.11	33	PASS
Band7	20MHz	16QAM	21100	1RB#0	22.63	20.95	33	PASS
Band7	20MHz	16QAM	21100	1RB#49	23.03	21.35	33	PASS
Band7	20MHz	16QAM	21100	1RB#99	22.38	20.70	33	PASS
Band7	20MHz	16QAM	21100	100RB#0	21.53	19.85	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.28	20.60	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.49	20.81	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.11	20.43	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.58	19.90	33	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	5.74	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.84	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.66	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.42	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.48	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.38	13	PASS



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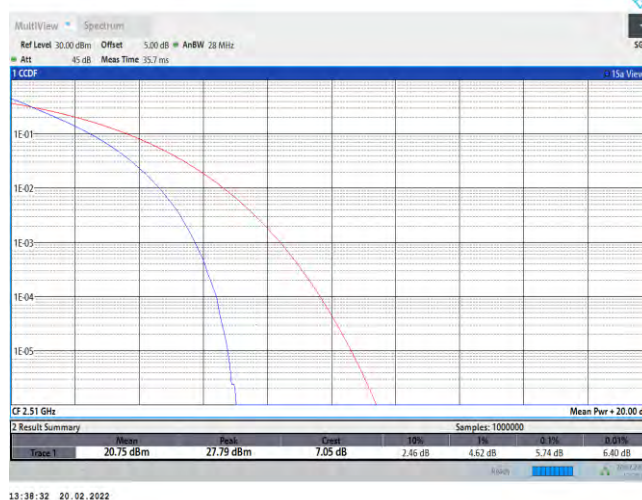
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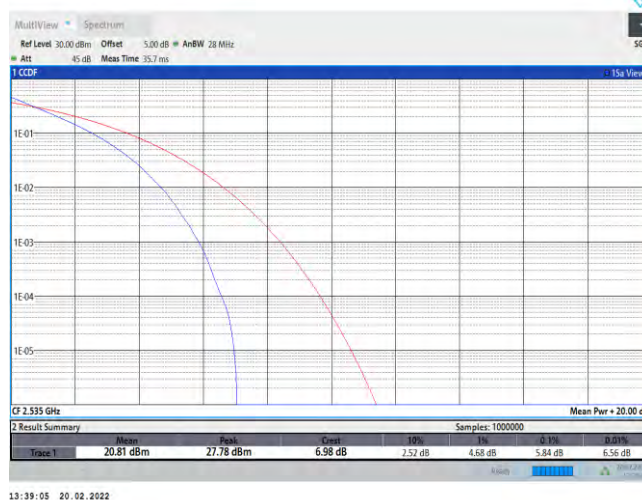
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Test Graphs

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



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



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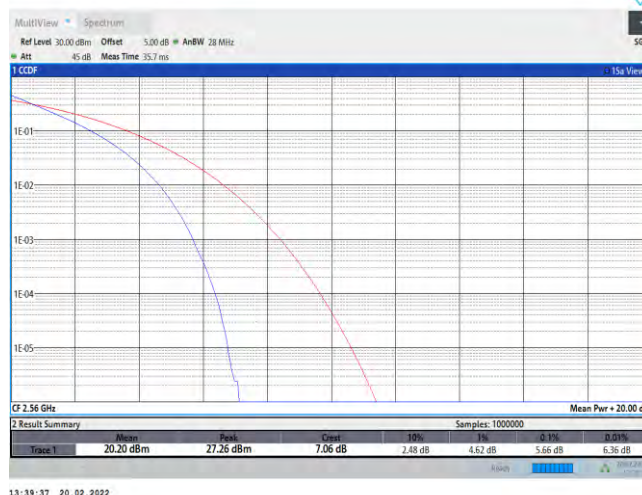
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Band7-20MHz-QPSK-21350-100RB#0



13:39:37 20.02.2022

Band7-20MHz-16QAM-20850-100RB#0



13:38:48 20.02.2022



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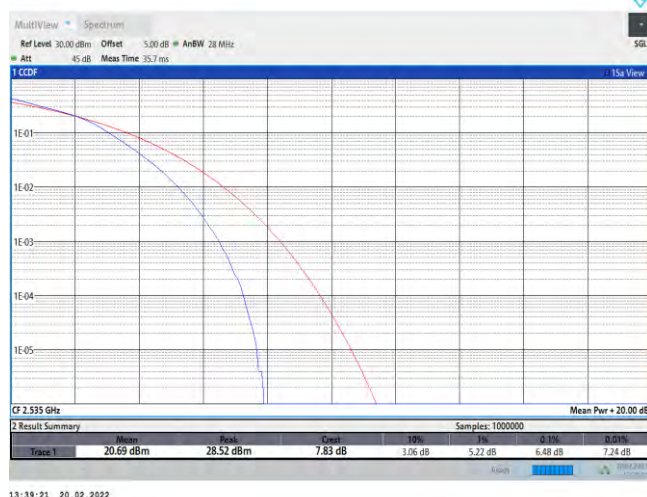
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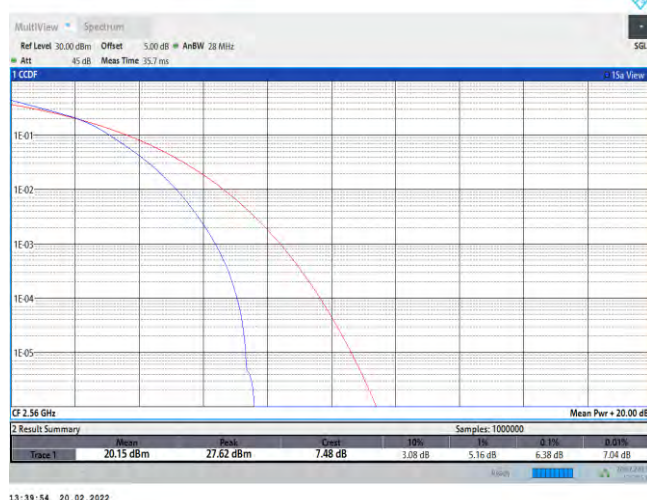
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Band7-20MHz-16QAM-21100-100RB#0



Band7-20MHz-16QAM-21350-100RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS



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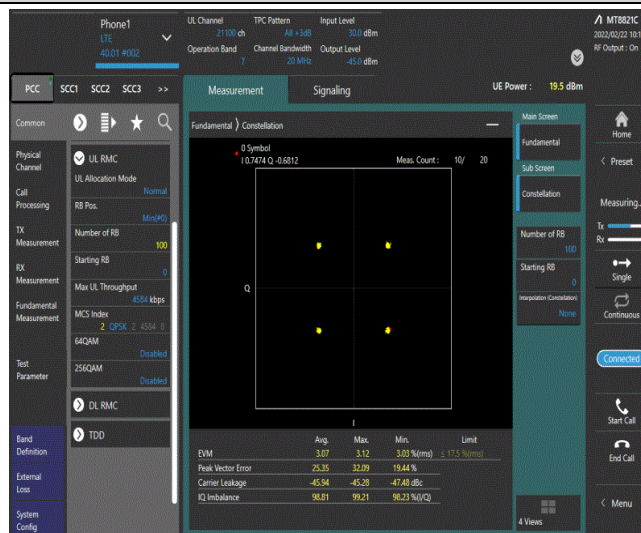
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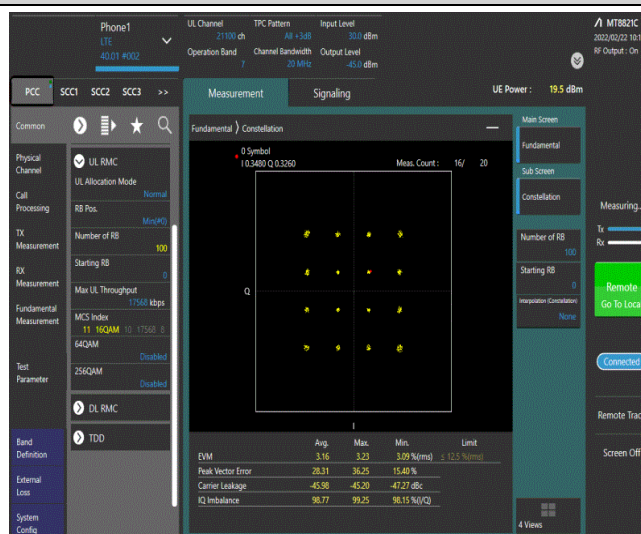
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Test Graphs

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



Band7-20MHz-16QAM-21100-100RB#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	20775	25RB#0	4.464	4.88	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.467	4.90	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.466	4.89	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.462	4.91	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.462	4.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.462	4.92	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.920	9.60	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.907	9.72	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.911	9.64	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.899	9.62	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.900	9.68	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.899	9.60	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.412	14.73	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.427	14.76	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.413	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.414	14.76	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.413	14.85	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.412	14.82	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.872	19.24	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.879	19.40	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.866	19.24	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.840	19.28	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.854	19.36	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.871	19.28	PASS



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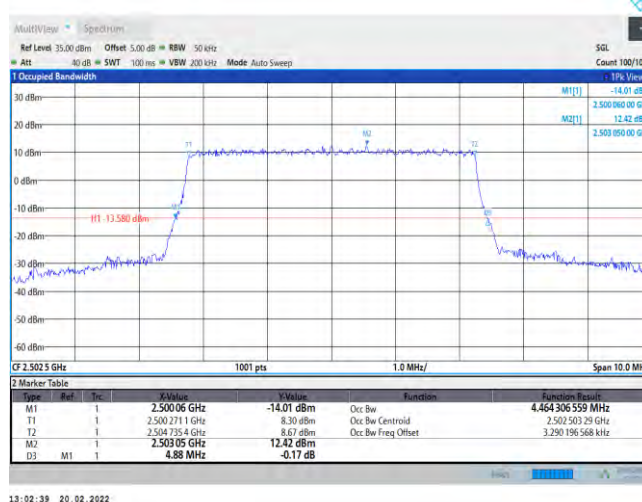
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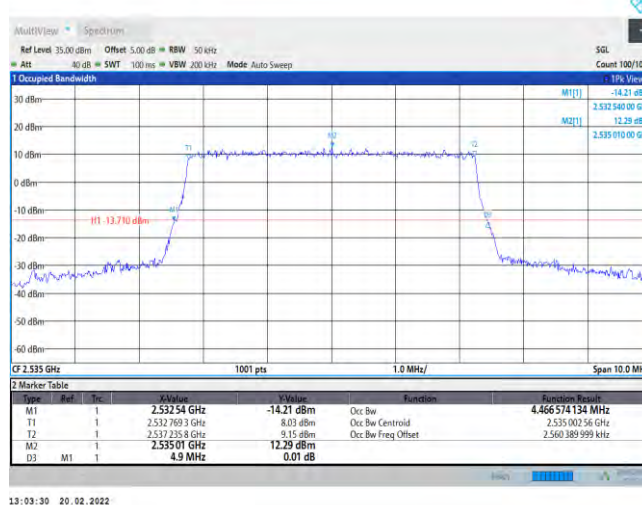
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Test Graphs

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



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



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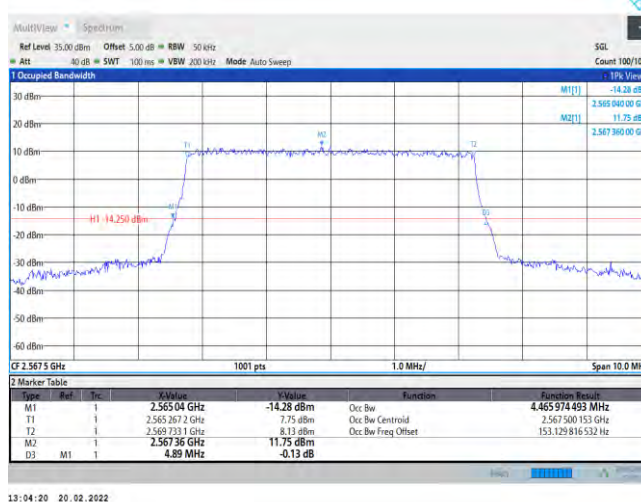
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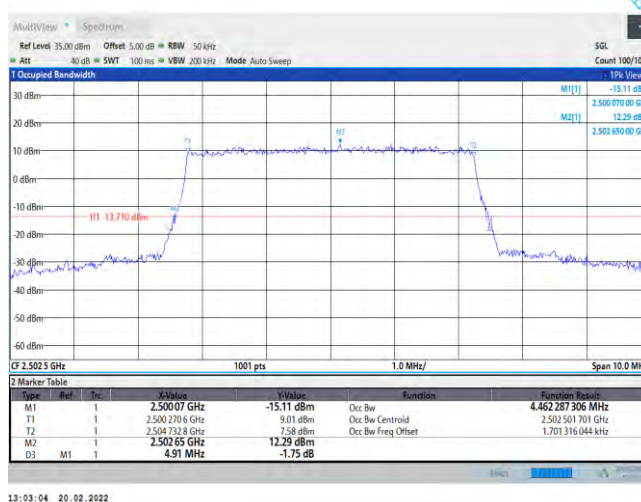
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Band7-5MHz-16QAM-20775-25RB#0



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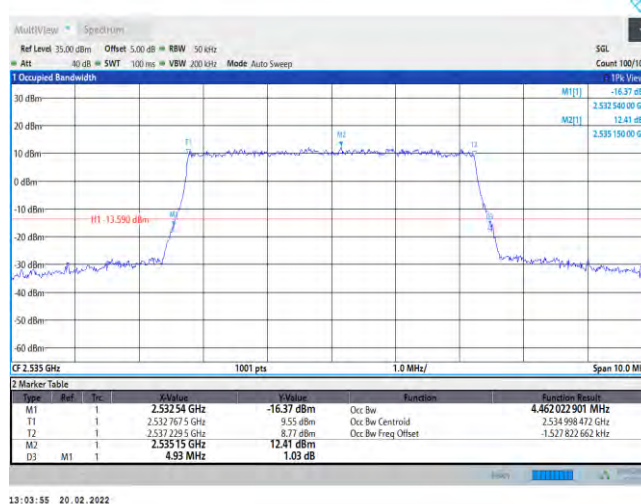
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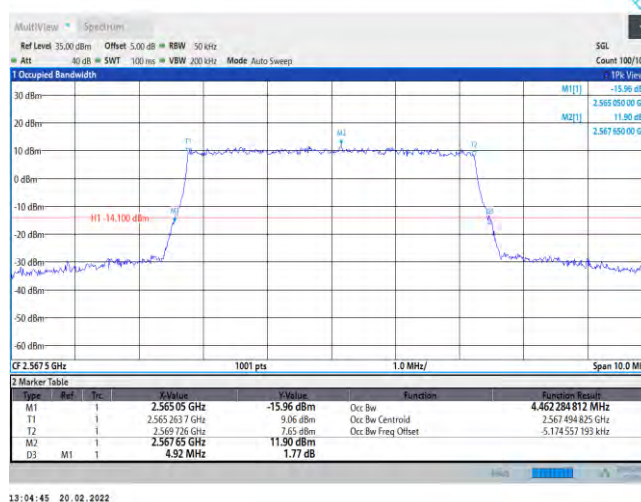
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Band7-5MHz-16QAM-21425-25RB#0



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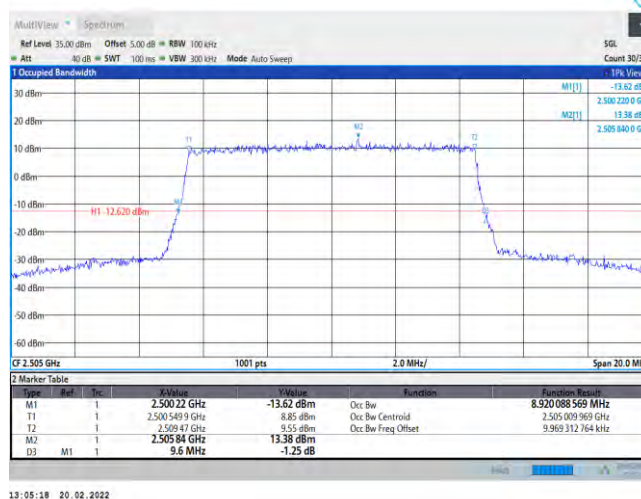
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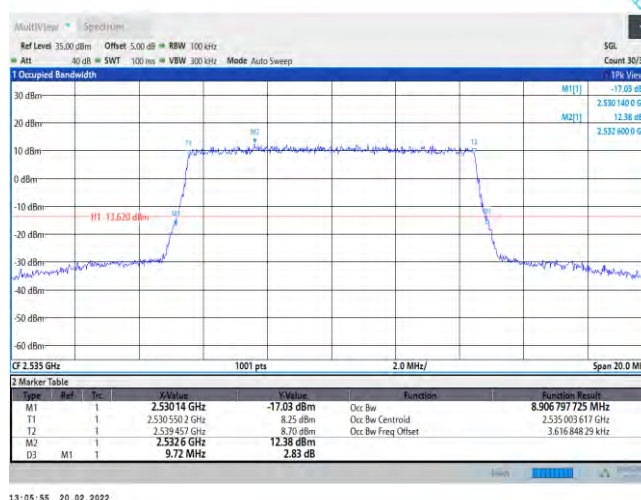
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Band7-10MHz-QPSK-20800-50RB#0



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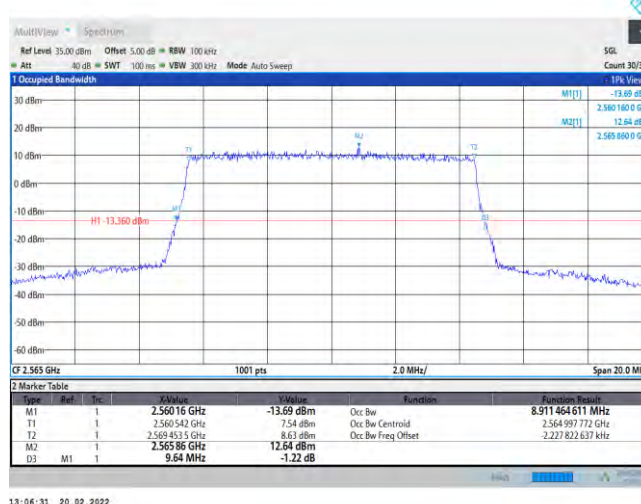
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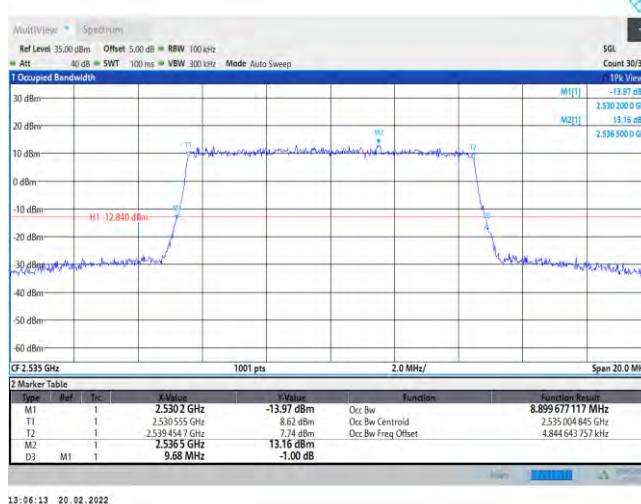
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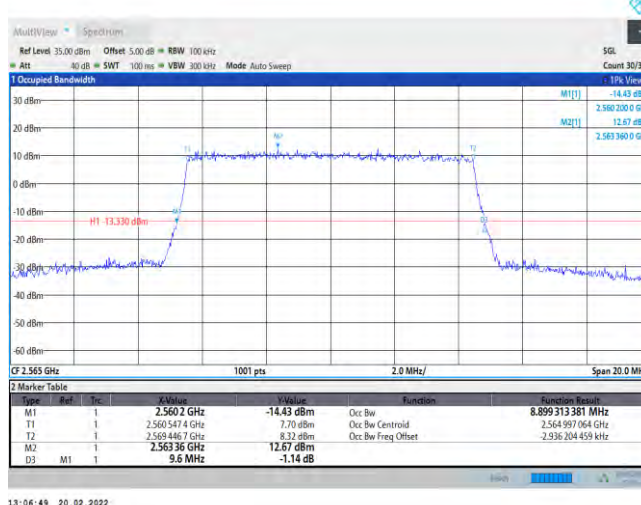
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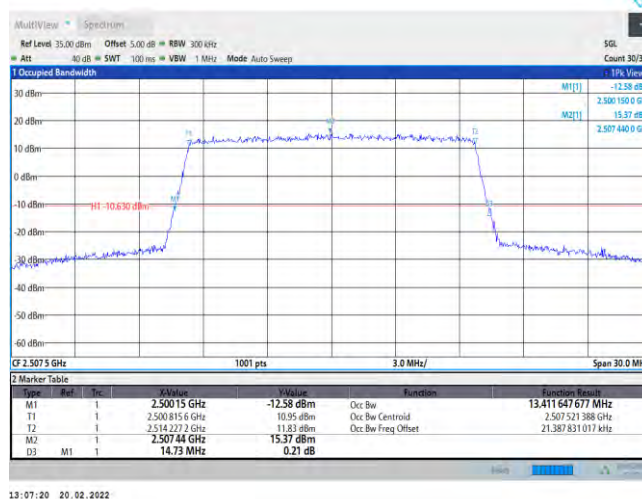
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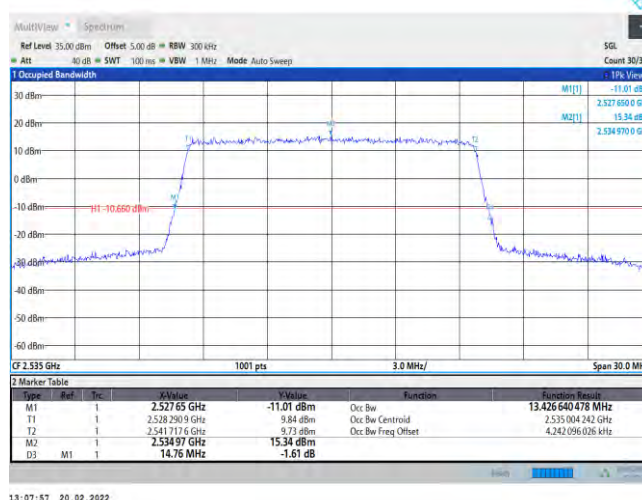
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Band7-15MHz-QPSK-20825-75RB#0



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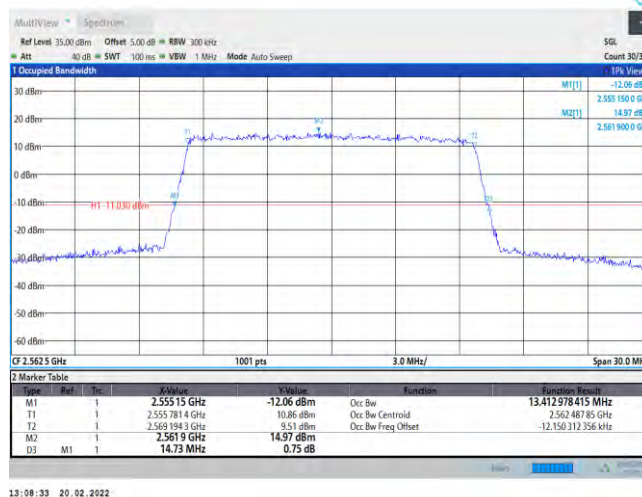
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Band7-15MHz-QPSK-21375-75RB#0



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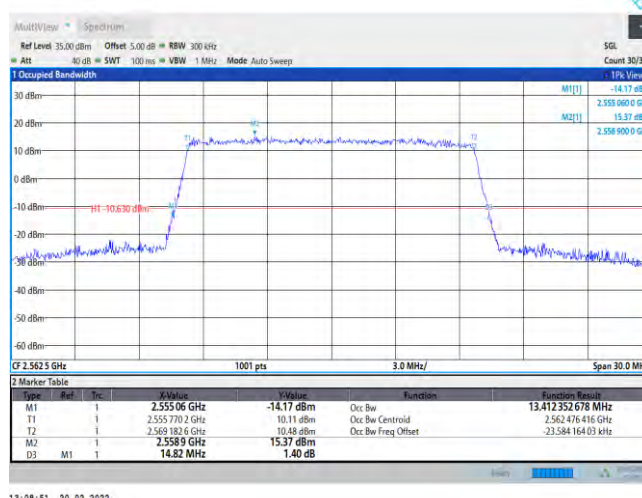
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Band7-15MHz-16QAM-21100-75RB#0



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Band7-15MHz-16QAM-21375-75RB#0



13:08:51 20.02.2022



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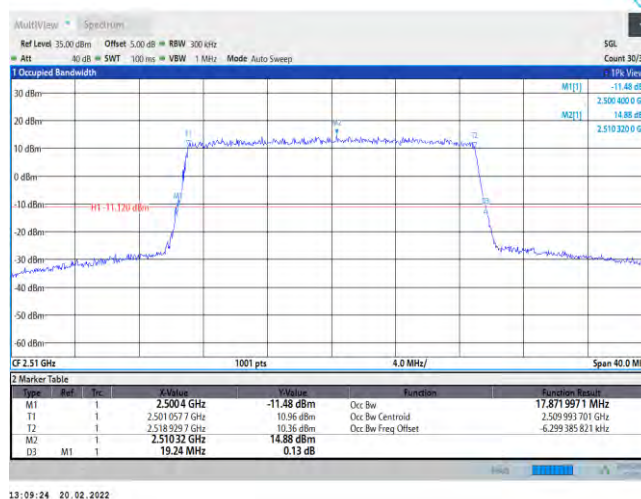
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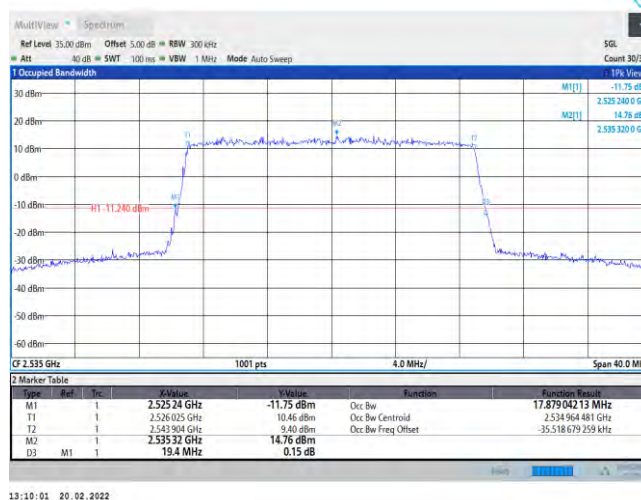
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Band7-20MHz-QPSK-20850-100RB#0



13:09:24 20.02.2022

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



13:10:01 20.02.2022



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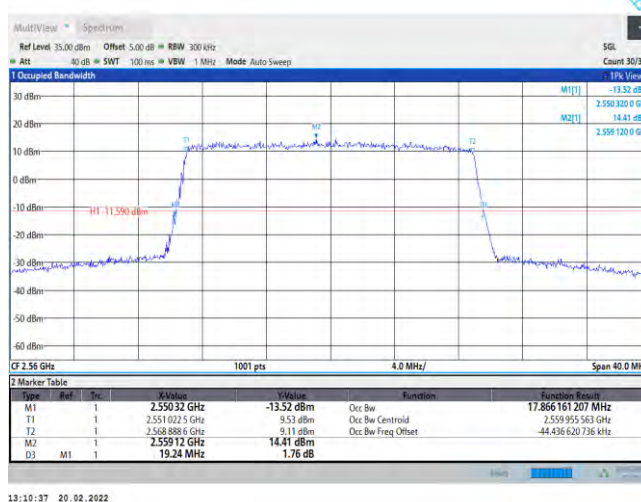
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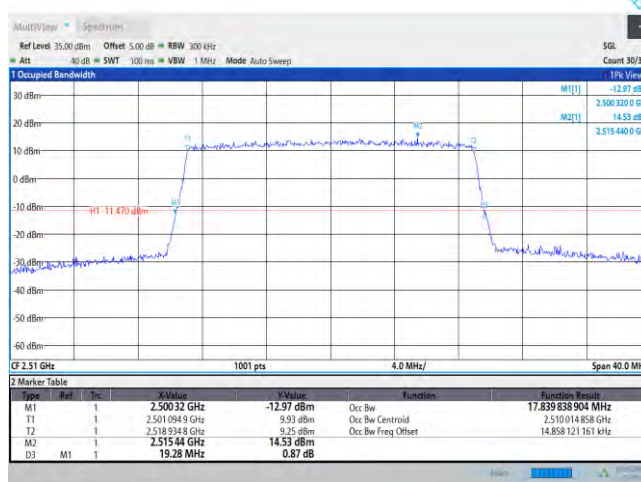
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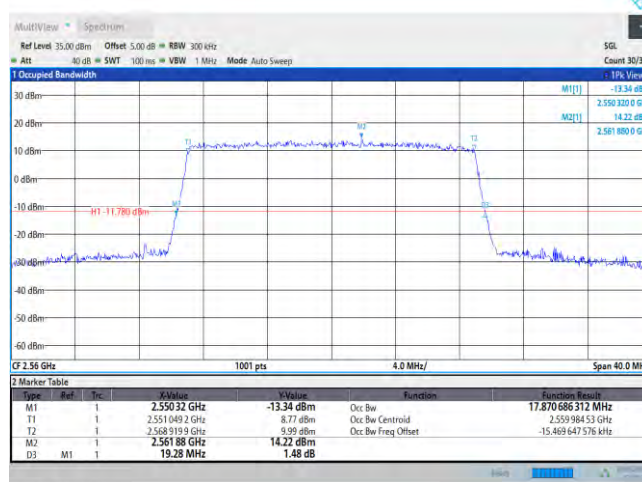
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13:10:19 20.02.2022

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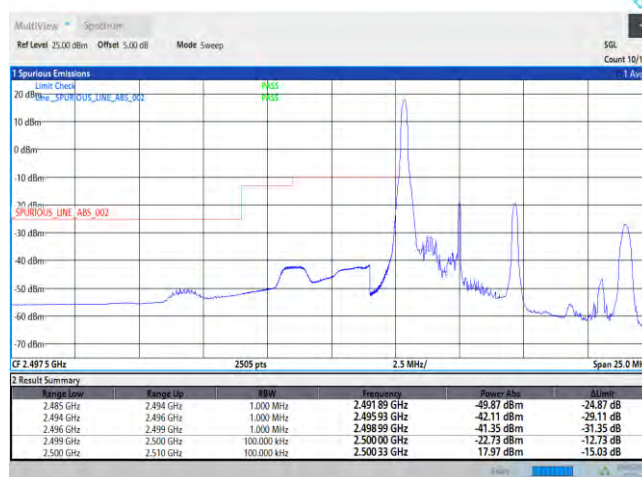
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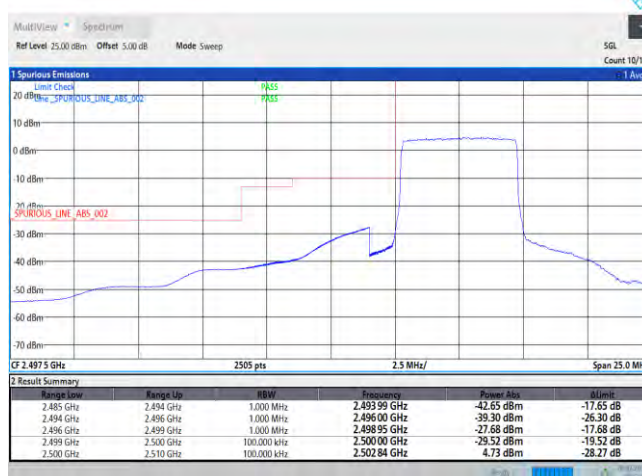
Test Graphs

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



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



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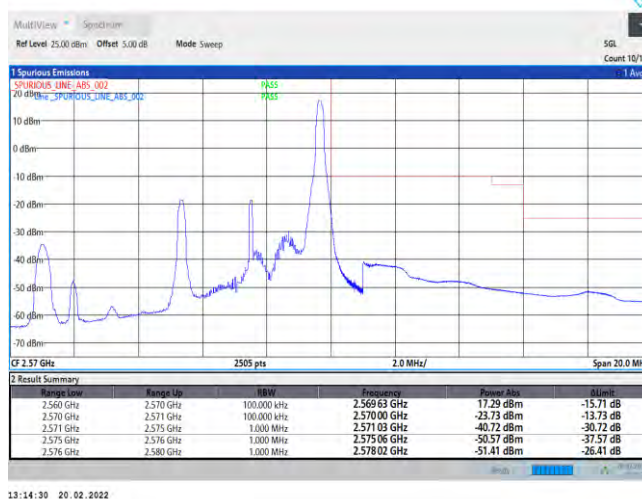
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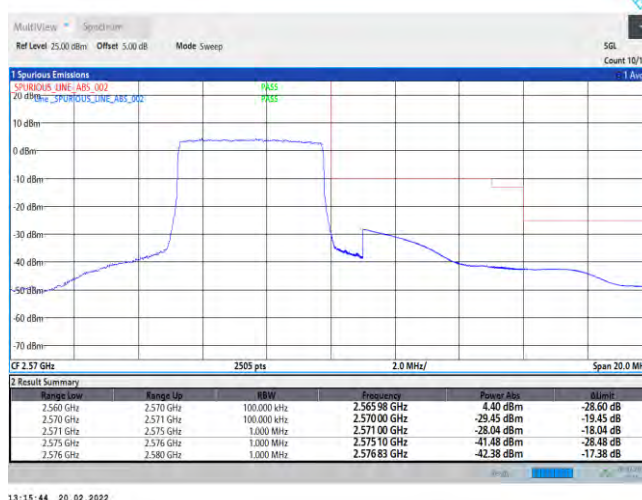
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Band7-5MHz-QPSK-21425-1RB#24



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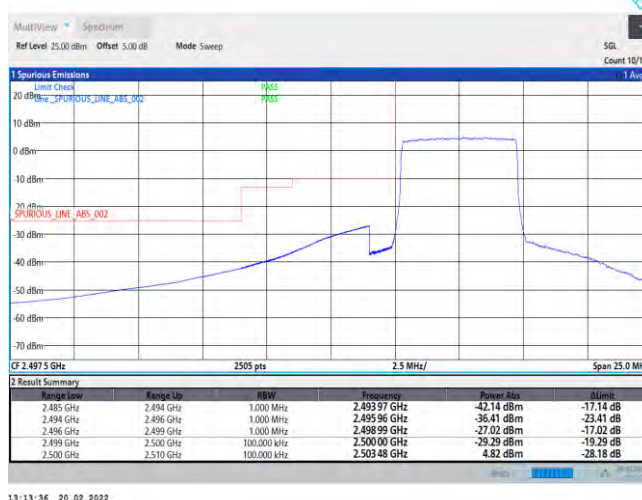
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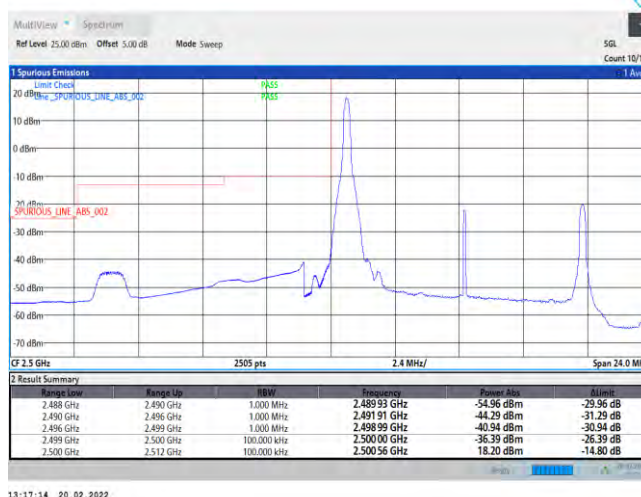
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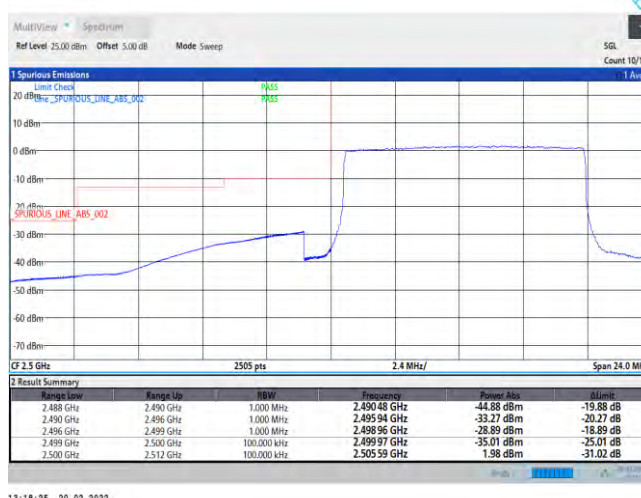
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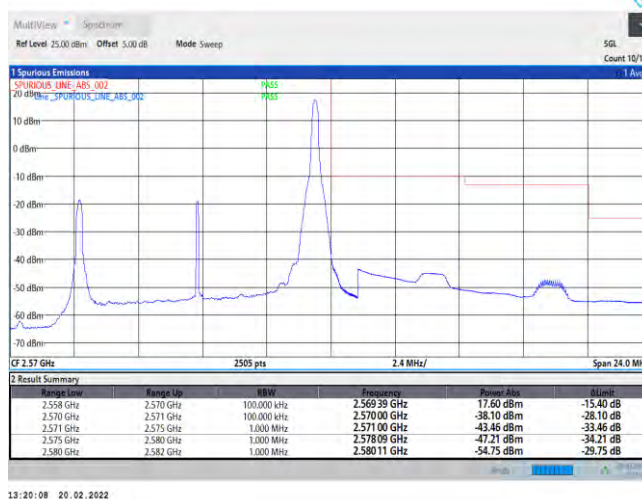
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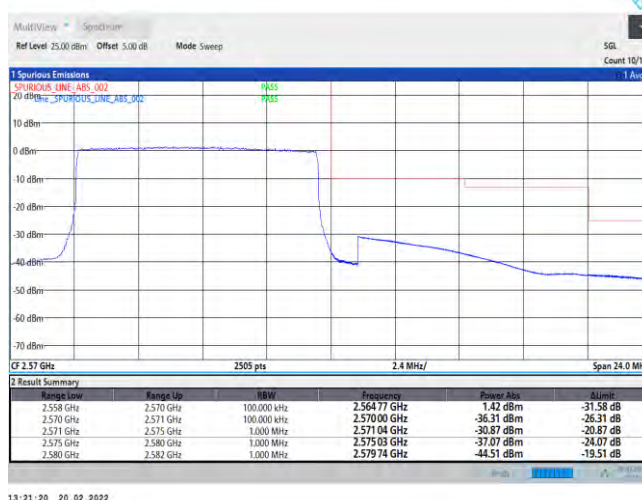
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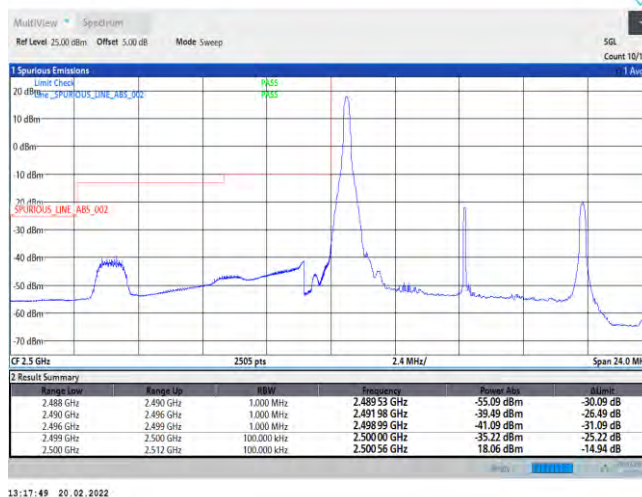
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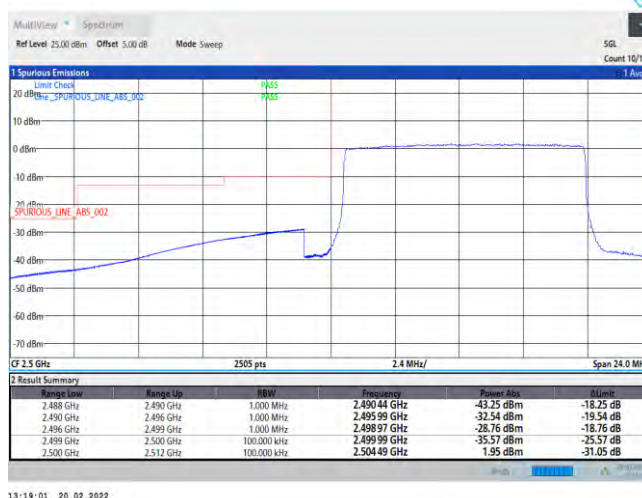
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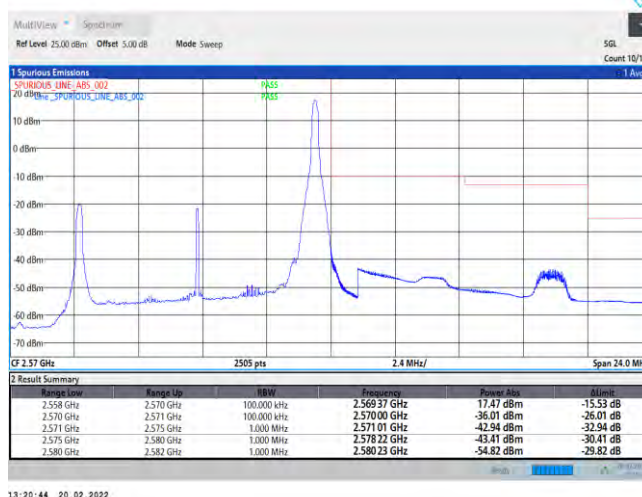
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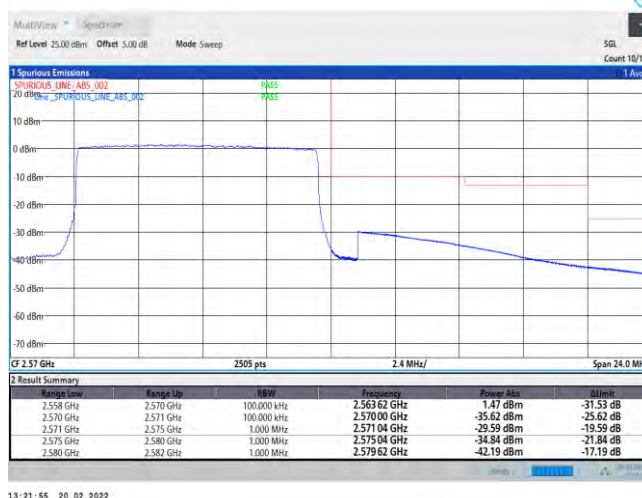
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Band7-10MHz-16QAM-21400-50RB#0



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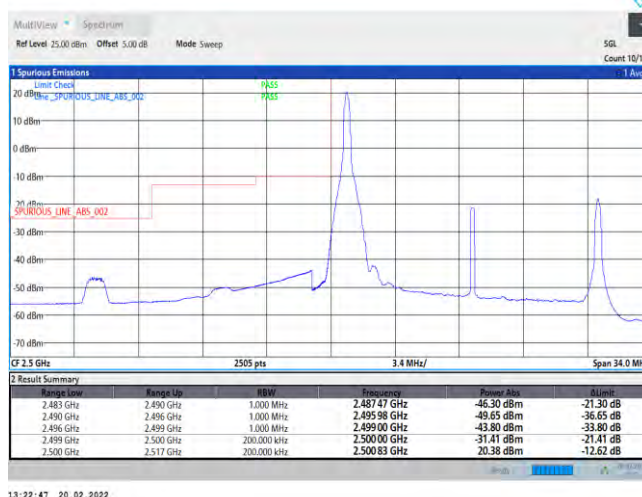
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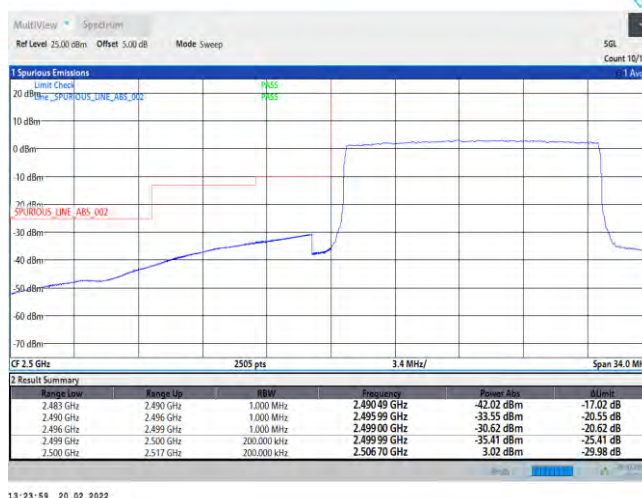
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Band7-15MHz-QPSK-20825-1RB#0



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



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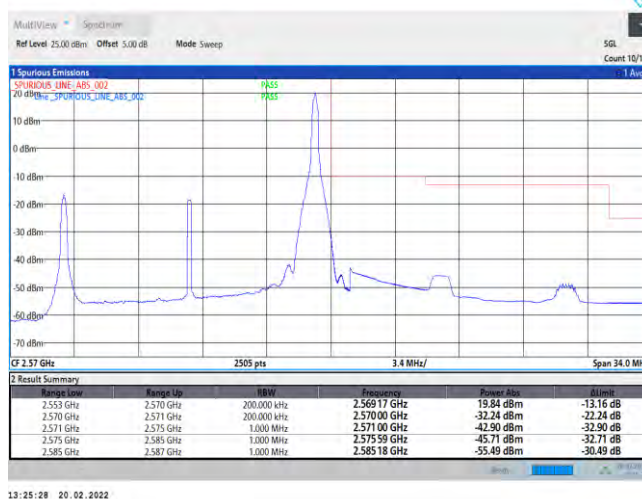
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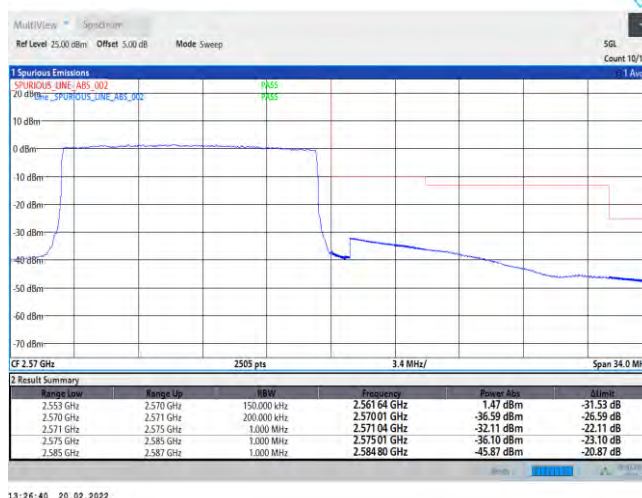
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Band7-15MHz-QPSK-21375-1RB#74



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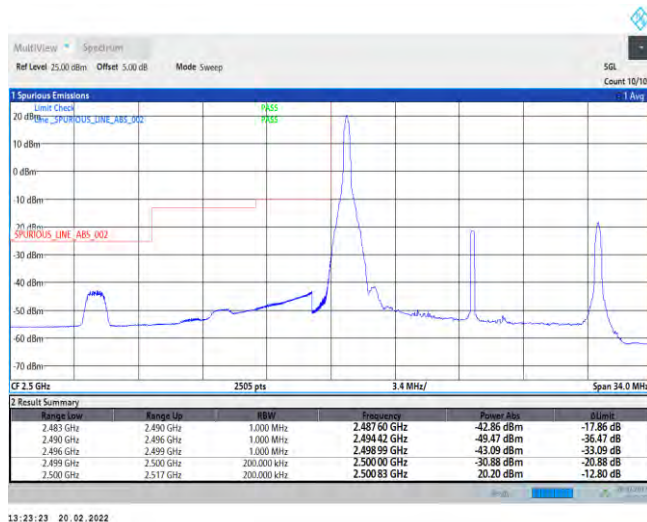
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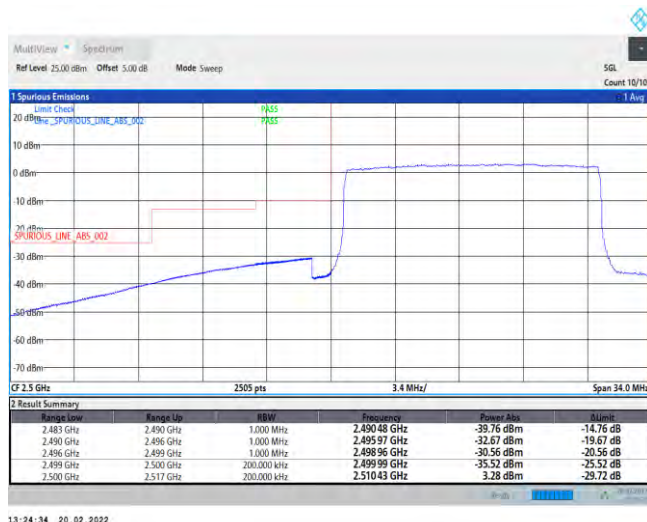
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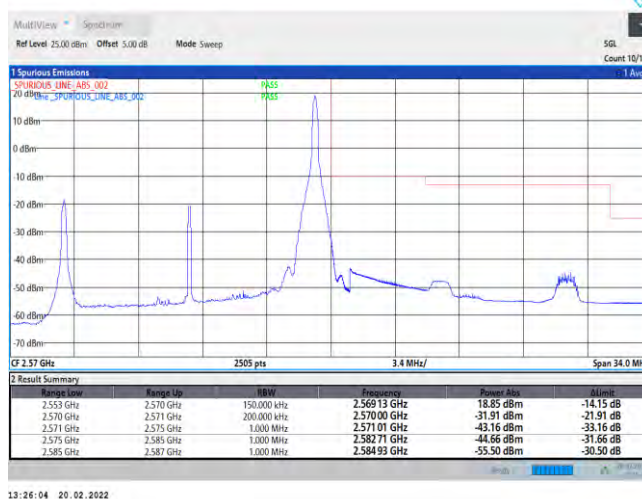
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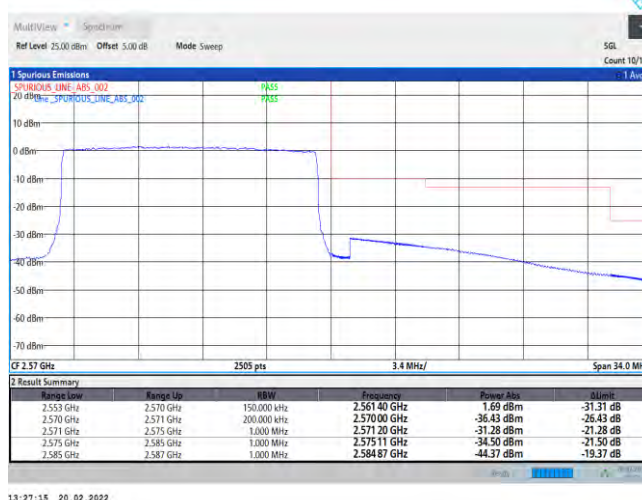
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Band7-15MHz-16QAM-21375-1RB#74



Band7-15MHz-16QAM-21375-75RB#0



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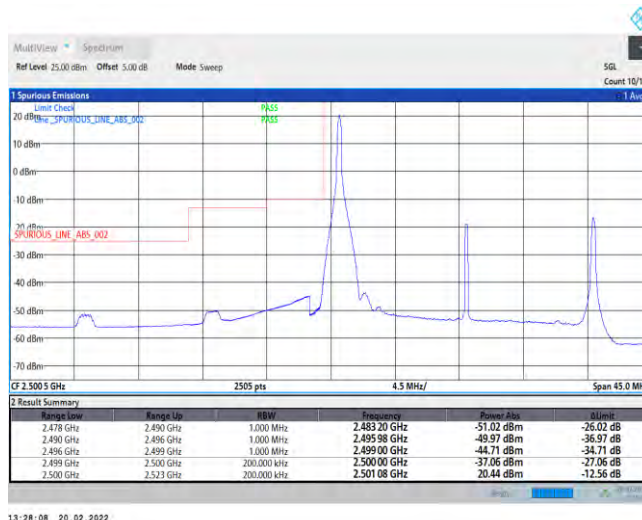
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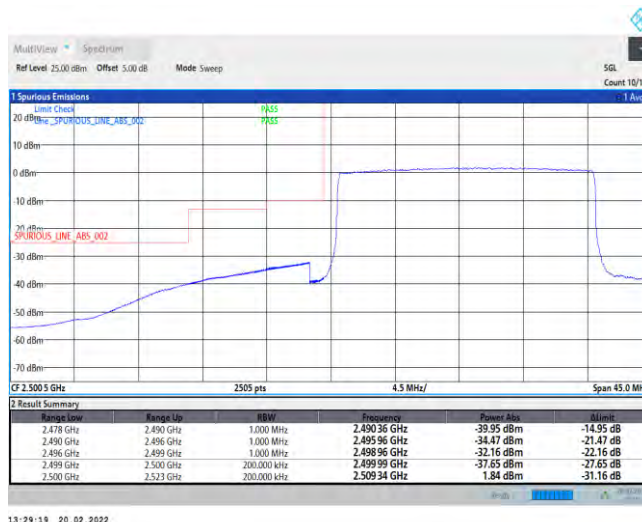
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Band7-20MHz-QPSK-20850-1RB#0



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



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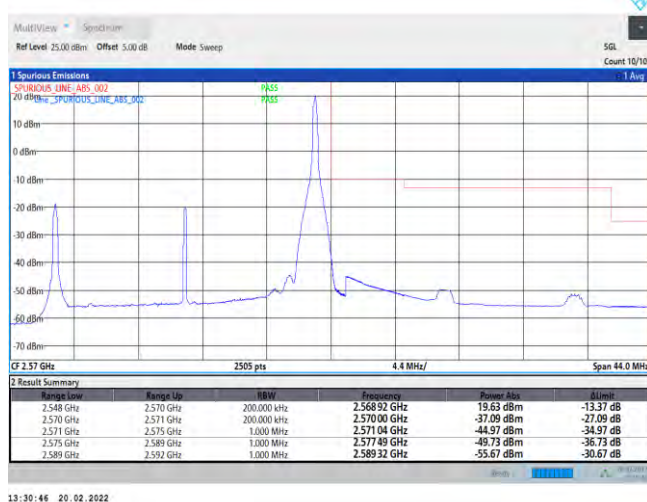
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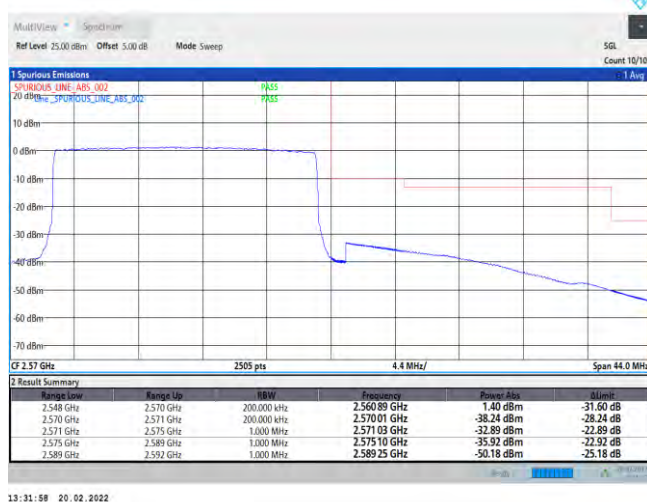
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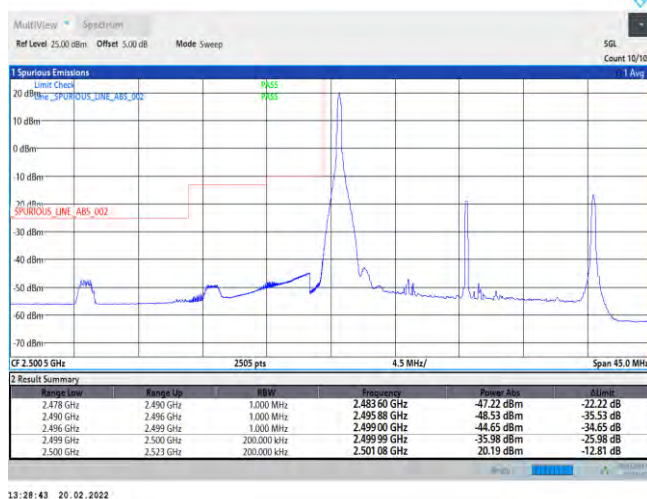
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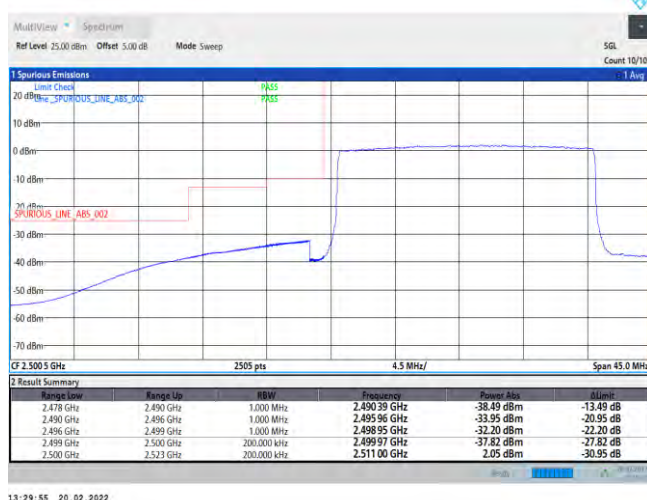
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Band7-20MHz-16QAM-20850-1RB#0



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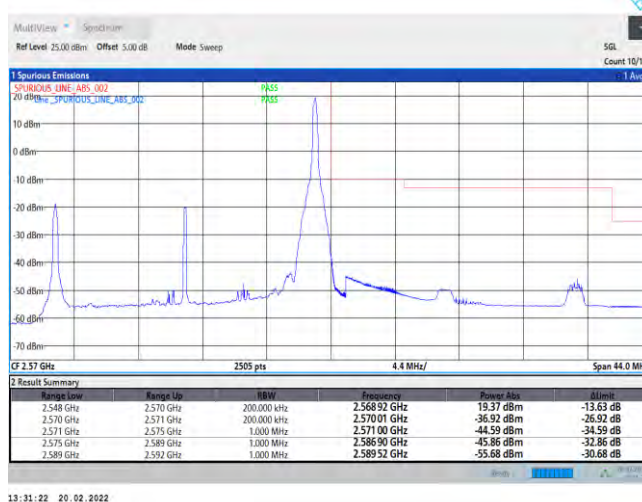
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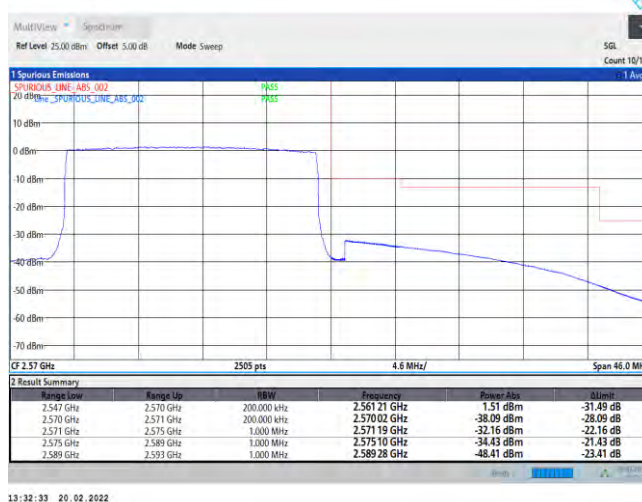
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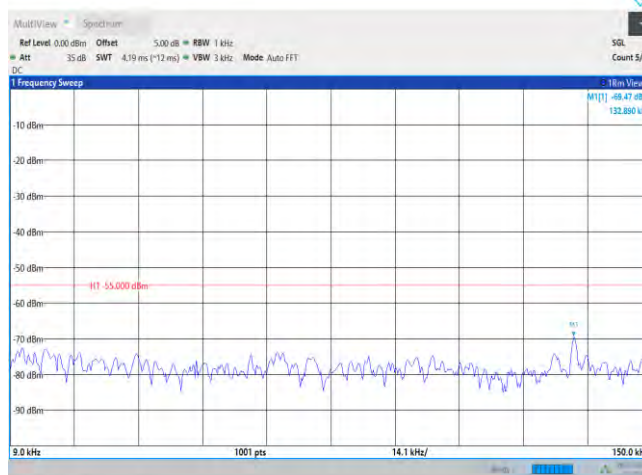
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Conducted Spurious Emission

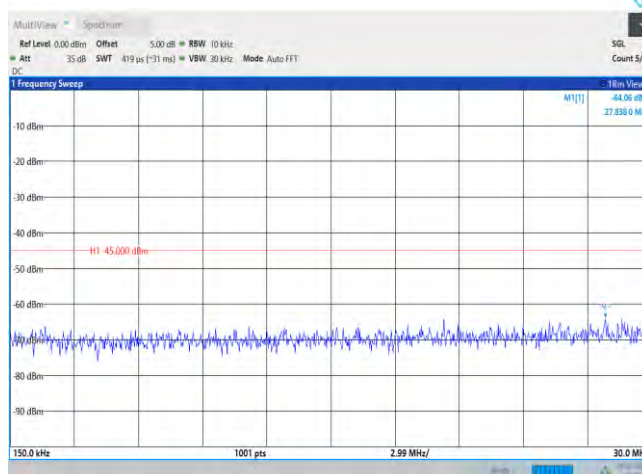
Test Graphs

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



13:33:06 20.02.2022

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



13:33:15 20.02.2022



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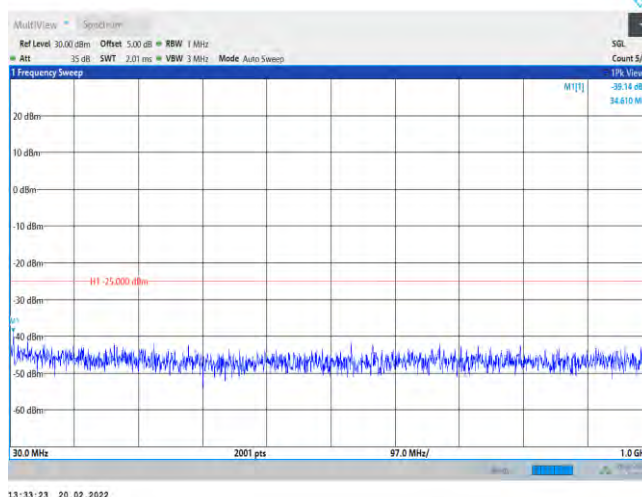
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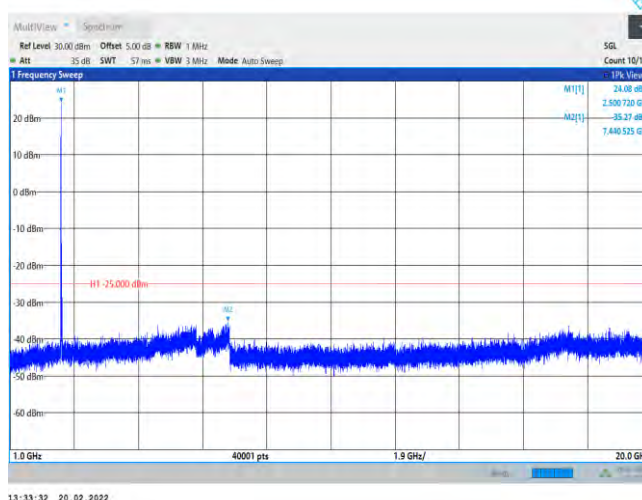
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Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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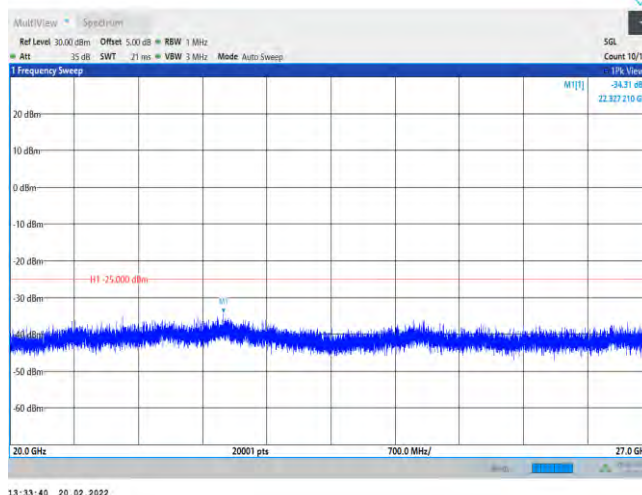
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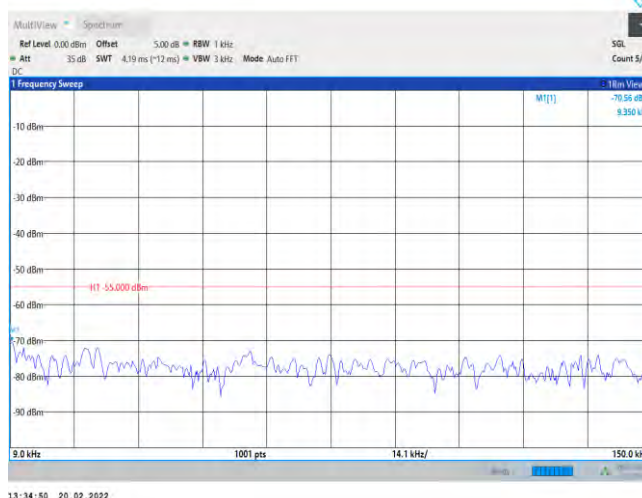
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Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



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



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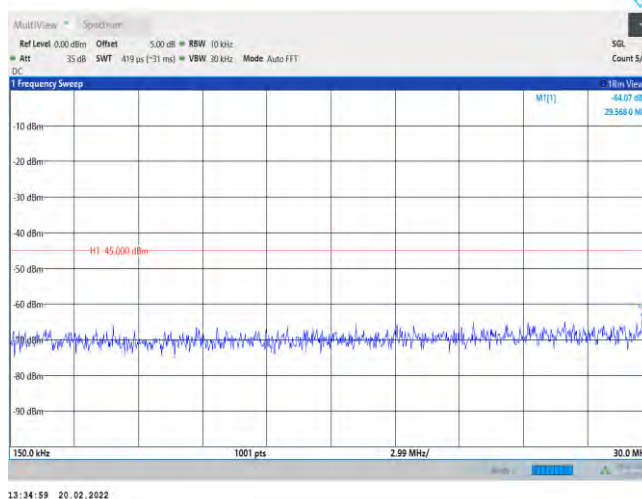
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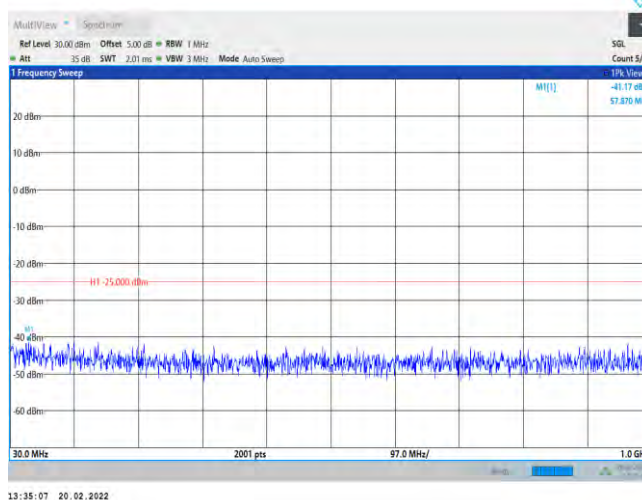
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Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



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



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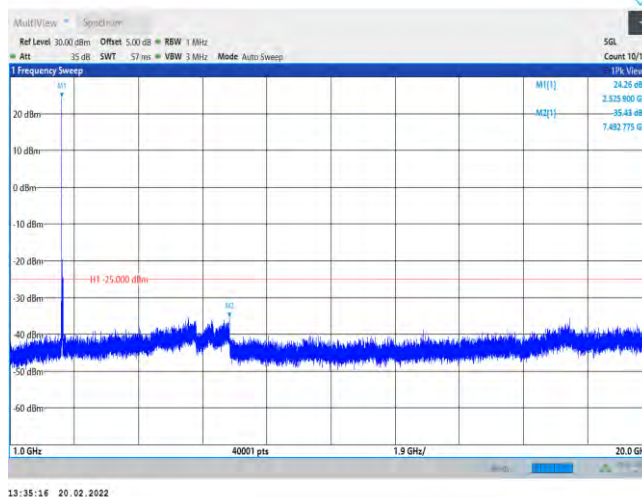
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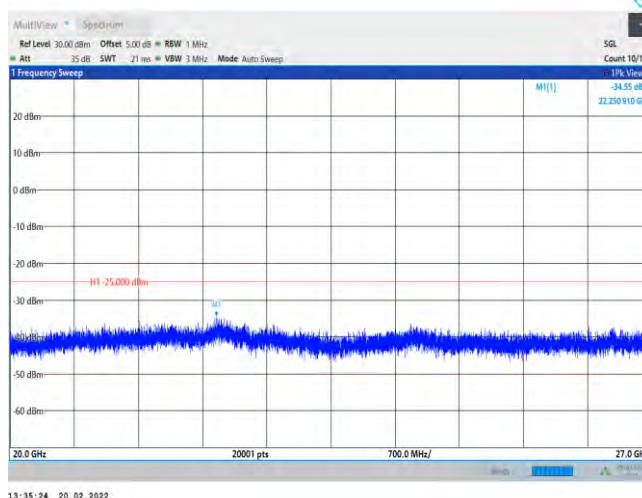
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Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



13:35:16 20.02.2022

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



13:35:24 20.02.2022



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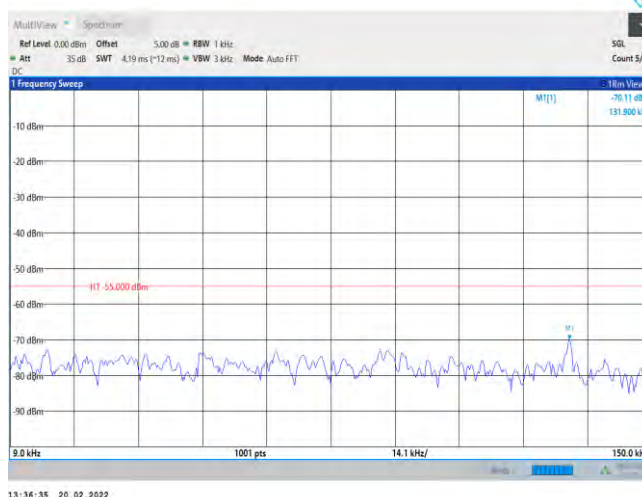
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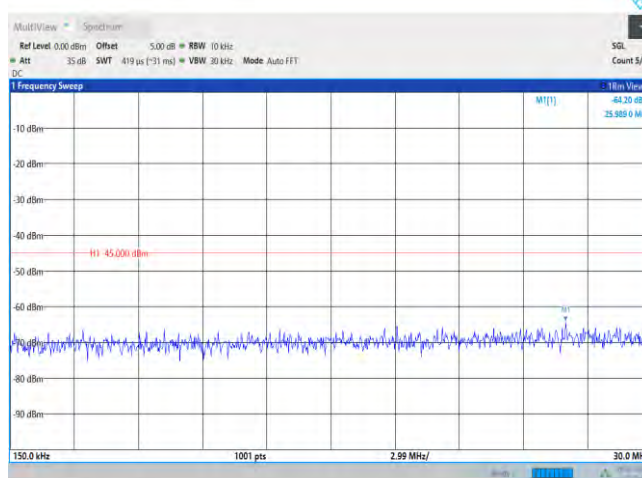
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Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



13:36:35 20.02.2022

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



13:36:43 20.02.2022



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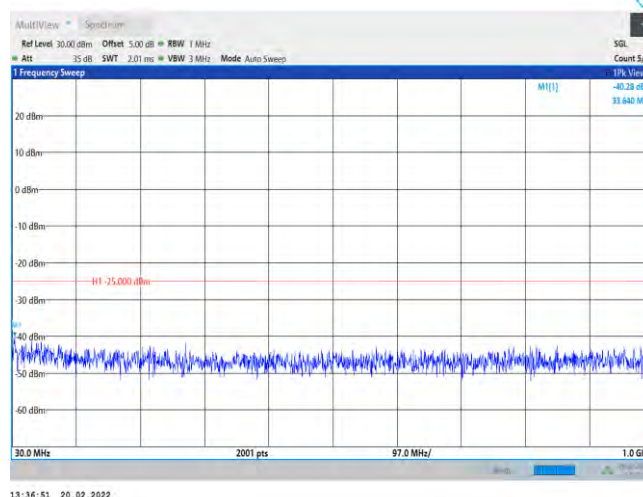
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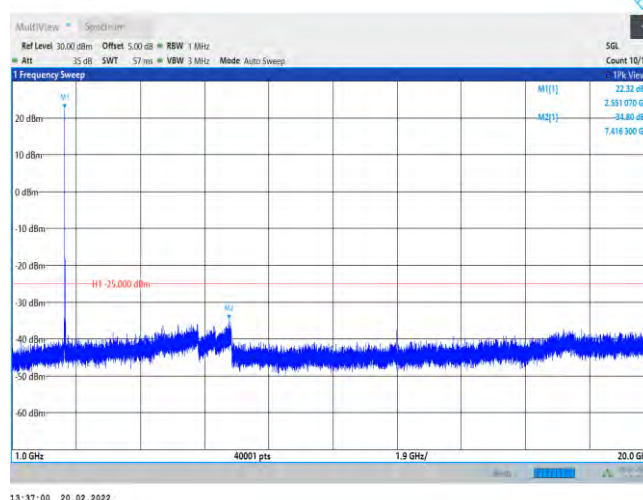
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Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



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



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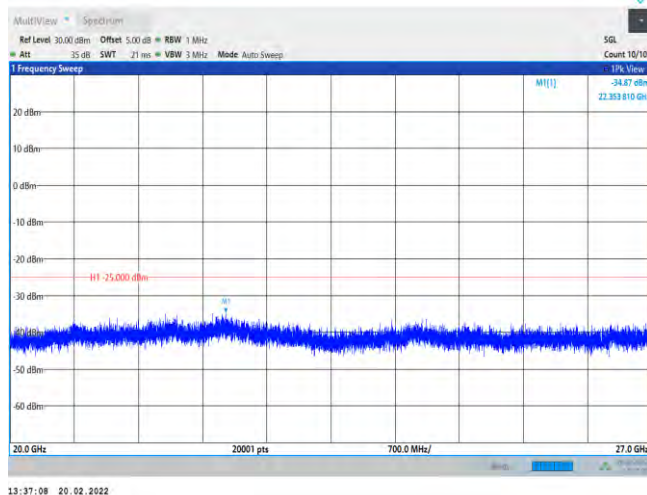
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Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



13:37:08 20.02.2022



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Field Strength of Spurious Radiation

Test Band = _Band7 ANT3 TM1

Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	48.86	-108.01	-59.15	-25.00	34.15	132	69	Horizontal
2	7503.2700	46.75	-101.95	-55.20	-25.00	30.20	169	0	Horizontal
3	10004.3600	41.62	-96.00	-54.38	-25.00	29.38	187	41	Horizontal
4	12505.4500	38.58	-93.07	-54.49	-25.00	29.49	194	0	Horizontal
5	15006.5400	36.28	-90.70	-54.42	-25.00	29.42	172	228	Horizontal
6	17507.6300	40.60	-90.99	-50.39	-25.00	25.39	102	7	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.1800	49.12	-108.01	-58.89	-25.00	33.89	194	201	Vertical
2	7503.2700	46.99	-101.95	-54.96	-25.00	29.96	126	25	Vertical
3	10004.3600	42.21	-96.00	-53.79	-25.00	28.79	238	346	Vertical
4	12505.4500	38.19	-93.07	-54.88	-25.00	29.88	194	112	Vertical
5	15006.5400	36.86	-90.70	-53.84	-25.00	28.84	172	124	Vertical
6	17507.6300	39.86	-90.99	-51.13	-25.00	26.13	122	273	Vertical



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Test Band = _Band7 ANT3 TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	47.35	-107.85	-60.50	-25.00	35.50	194	128	Horizontal
2	7578.2700	47.93	-101.83	-53.90	-25.00	28.90	124	42	Horizontal
3	10104.3600	42.76	-95.74	-52.98	-25.00	27.98	135	15	Horizontal
4	12630.4500	39.11	-93.26	-54.15	-25.00	29.15	188	188	Horizontal
5	15156.5400	37.97	-90.62	-52.65	-25.00	27.65	174	85	Horizontal
6	17682.6300	39.91	-89.09	-49.18	-25.00	24.18	214	332	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.1800	47.33	-107.85	-60.52	-25.00	35.52	188	215	Vertical
2	7578.2700	45.40	-101.83	-56.43	-25.00	31.43	194	42	Vertical
3	10104.3600	41.82	-95.74	-53.92	-25.00	28.92	172	144	Vertical
4	12630.4500	39.86	-93.26	-53.40	-25.00	28.40	235	261	Vertical
5	15156.5400	37.44	-90.62	-53.18	-25.00	28.18	148	275	Vertical
6	17682.6300	40.22	-89.09	-48.87	-25.00	23.87	144	3	Vertical



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Test Band = _Band7 ANT3 TM1
Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	48.93	-107.69	-58.76	-25.00	33.76	199	25	Horizontal
2	7653.2700	46.96	-101.80	-54.84	-25.00	29.84	148	8	Horizontal
3	10204.3600	41.31	-95.93	-54.62	-25.00	29.62	170	130	Horizontal
4	12755.4500	38.16	-92.47	-54.31	-25.00	29.31	256	155	Horizontal
5	15306.5400	37.66	-90.80	-53.14	-25.00	28.14	194	159	Horizontal
6	17857.6300	41.59	-88.58	-46.99	-25.00	21.99	180	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.1800	48.55	-107.69	-59.14	-25.00	34.14	102	16	Vertical
2	7653.2700	46.89	-101.80	-54.91	-25.00	29.91	301	232	Vertical
3	10204.3600	42.43	-95.93	-53.50	-25.00	28.50	148	203	Vertical
4	12755.4500	38.01	-92.47	-54.46	-25.00	29.46	199	289	Vertical
5	15306.5400	37.45	-90.80	-53.35	-25.00	28.35	177	1	Vertical
6	17857.6300	40.59	-88.58	-47.99	-25.00	22.99	238	28	Vertical



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	0.90	0.000359	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	1.10	0.000438	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	2.60	0.001036	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	0.60	0.000239	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	2.50	0.000996	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	0.70	0.000279	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	2.30	0.000916	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	3.20	0.001275	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	4.10	0.001633	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	4.20	0.001673	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	3.70	0.001474	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	1.20	0.000478	PASS

The End



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