

# Appendix B.2

## LTE Band 4



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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
Band4	1.4MHz	QPSK	19957	1RB#0	23.25	24.72	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.38	24.85	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.24	24.71	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.34	23.81	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.26	24.73	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.31	24.78	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.24	24.71	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	22.32	23.79	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.15	24.62	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.22	24.69	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.17	24.64	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.22	23.69	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.52	23.99	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.63	24.10	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.54	24.01	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.44	22.91	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.58	24.05	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.53	24.00	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.39	23.86	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.43	22.90	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.50	23.97	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.45	23.92	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.50	23.97	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.32	22.79	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.28	24.75	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.32	24.79	30.00	PASS



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Band4	3MHz	QPSK	19965	1RB#14	23.27	24.74	30.00	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.39	23.86	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.28	24.75	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.35	24.82	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.28	24.75	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.36	23.83	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.25	24.72	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.28	24.75	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.20	24.67	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.29	23.76	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.63	24.10	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.57	24.04	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.62	24.09	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.42	22.89	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.57	24.04	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.63	24.10	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.54	24.01	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.39	22.86	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.57	24.04	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.45	23.92	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.53	24.00	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.27	22.74	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.34	24.81	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.34	24.81	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.30	24.77	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.38	23.85	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.31	24.78	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.34	24.81	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.33	24.80	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.38	23.85	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.29	24.76	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.28	24.75	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.25	24.72	30.00	PASS



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Band4	5MHz	QPSK	20375	25RB#0	22.28	23.75	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.58	24.05	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.64	24.11	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.56	24.03	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.43	22.90	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.51	23.98	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.63	24.10	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.53	24.00	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.36	22.83	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.60	24.07	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.60	24.07	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.49	23.96	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.30	22.77	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.32	24.79	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.37	24.84	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.35	24.82	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.41	23.88	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.31	24.78	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.33	24.80	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.34	24.81	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.38	23.85	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.26	24.73	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.29	24.76	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.28	24.75	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.34	23.81	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.53	24.00	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.57	24.04	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.52	23.99	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.42	22.89	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.47	23.94	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.61	24.08	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.68	24.15	30.00	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.39	22.86	30.00	PASS



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Band4	10MHz	16QAM	20350	1RB#0	22.66	24.13	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.64	24.11	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.64	24.11	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.39	22.86	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.28	24.75	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.36	24.83	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.28	24.75	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.34	23.81	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.23	24.70	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.39	24.86	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.38	24.85	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.38	23.85	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.31	24.78	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.35	24.82	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.31	24.78	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.44	23.91	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.63	24.10	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.73	24.20	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.45	23.92	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.34	22.81	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.51	23.98	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.55	24.02	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.66	24.13	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.39	22.86	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.58	24.05	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.52	23.99	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.60	24.07	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.45	22.92	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.22	24.69	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.37	24.84	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.36	24.83	30.00	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.31	23.78	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.18	24.65	30.00	PASS



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Band4	20MHz	QPSK	20175	1RB#49	23.37	24.84	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.38	24.85	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.42	23.89	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.26	24.73	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.30	24.77	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.34	24.81	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.48	23.95	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.57	24.04	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.56	24.03	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.52	23.99	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.32	22.79	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.51	23.98	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.53	24.00	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.60	24.07	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.36	22.83	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.41	23.88	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.55	24.02	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.68	24.15	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.45	22.92	30.00	PASS



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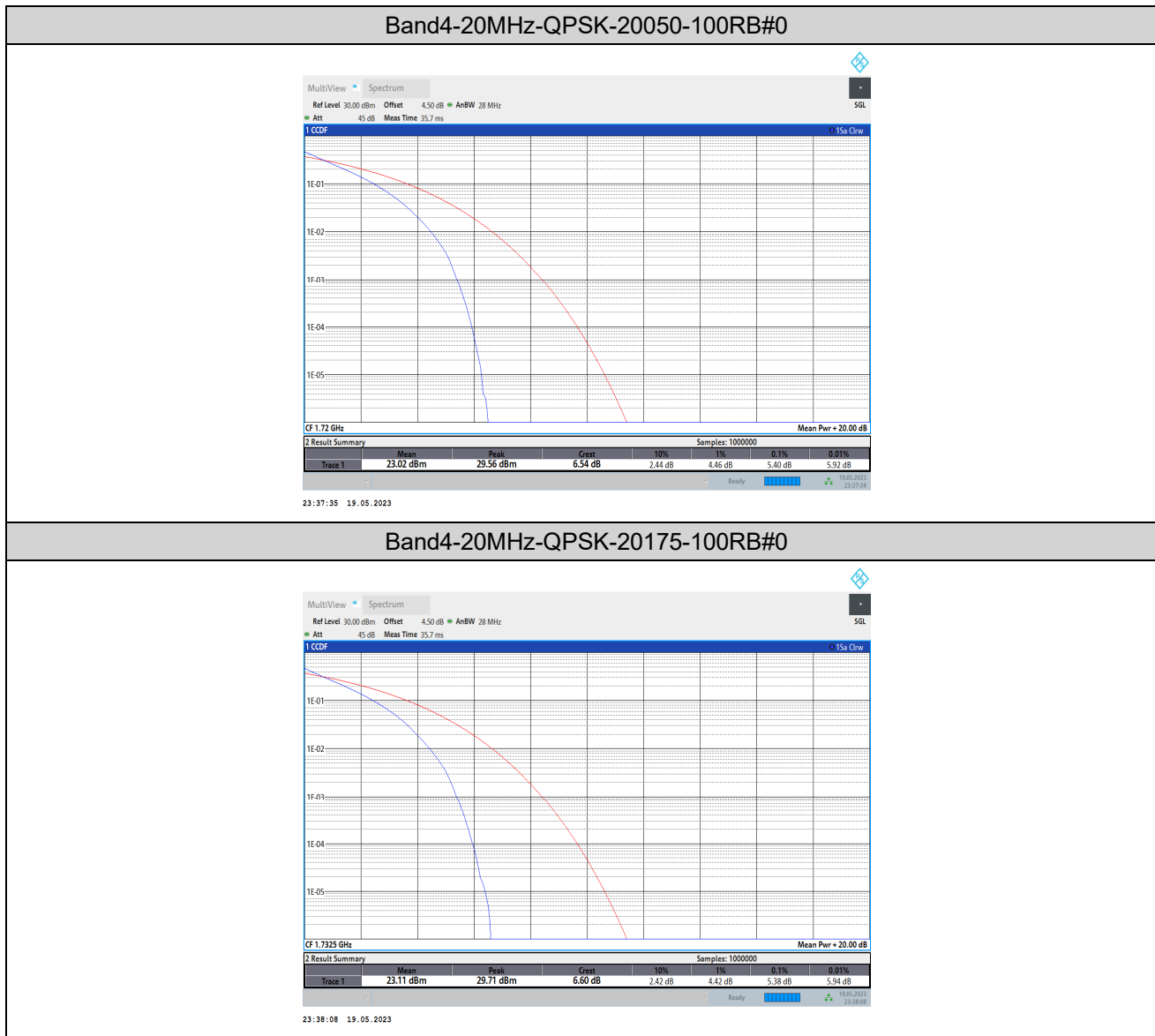
## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.40	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.38	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.58	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.26	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.18	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.46	13	PASS



Test Graphs



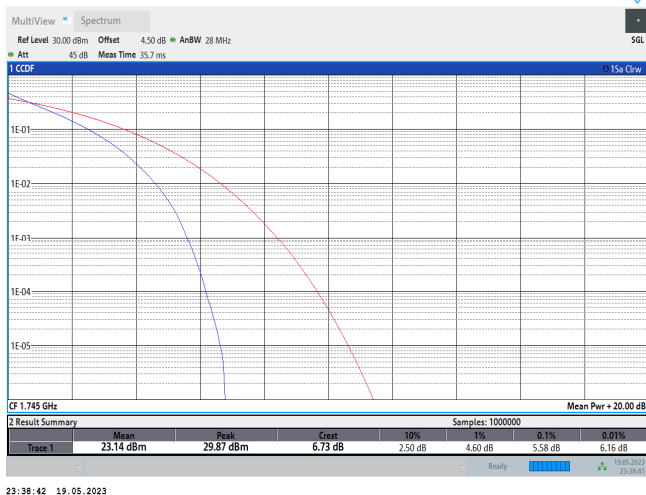
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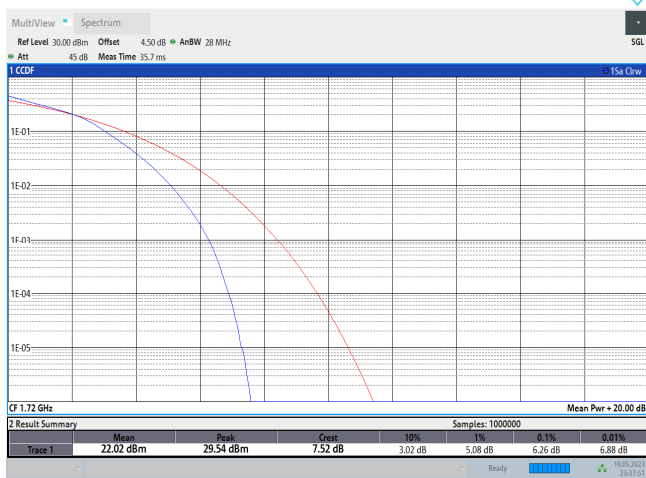


Band4-20MHz-QPSK-20300-100RB#0



23:38:42 19.05.2023

Band4-20MHz-16QAM-20050-100RB#0



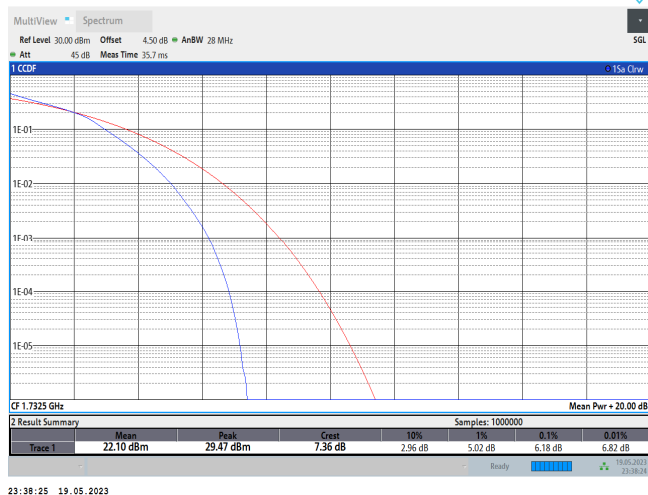
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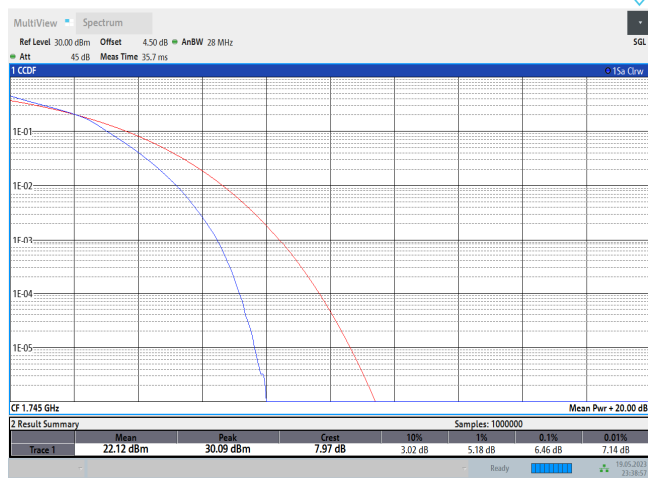
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Band4-20MHz-16QAM-20175-100RB#0



23:38:25 19.05.2023

Band4-20MHz-16QAM-20300-100RB#0



23:38:58 19.05.2023



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.086	1.23	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.23	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.085	1.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.092	1.24	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.091	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.695	2.99	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.695	2.98	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.697	2.97	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.689	2.99	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.686	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.690	2.99	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.475	4.89	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.474	4.90	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.475	4.89	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.474	4.93	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.469	4.93	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.469	4.94	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.933	9.60	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.943	9.64	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.928	9.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.911	9.62	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.923	9.64	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.921	9.64	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.455	14.73	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.483	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.465	14.70	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.437	14.73	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.453	14.70	PASS



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Report No.: SEWA2304000051RG01

Rev.: 01

Page: 12 of 52

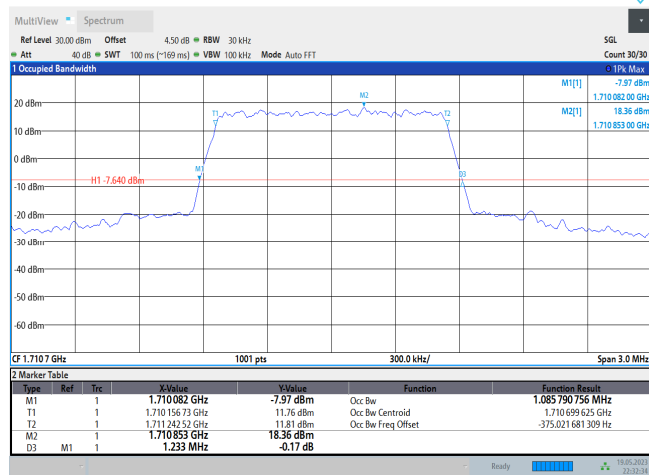
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Band4	20MHz	QPSK	20050	100RB#0	17.865	19.48	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.923	19.52	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.915	19.52	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.866	19.32	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.881	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.908	19.36	PASS



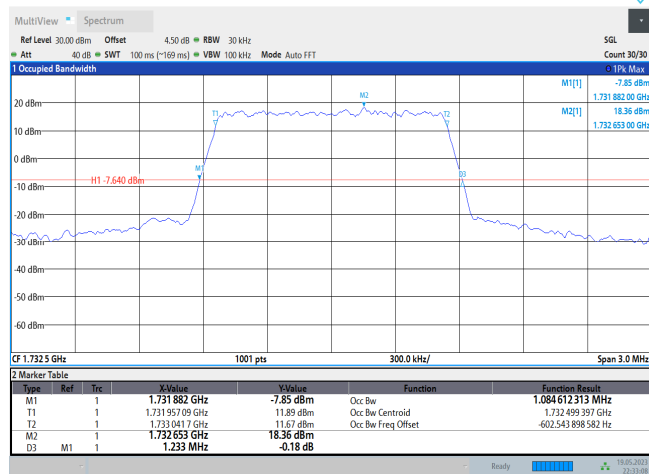
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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0



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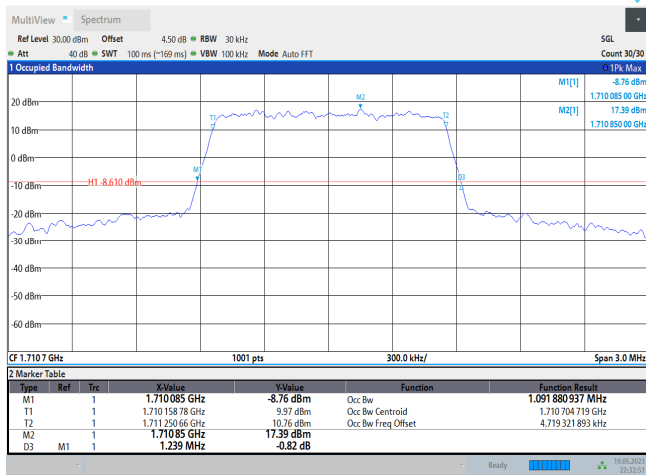
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Band4-1.4MHz-QPSK-20393-6RB#0



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Band4-1.4MHz-16QAM-19957-6RB#0



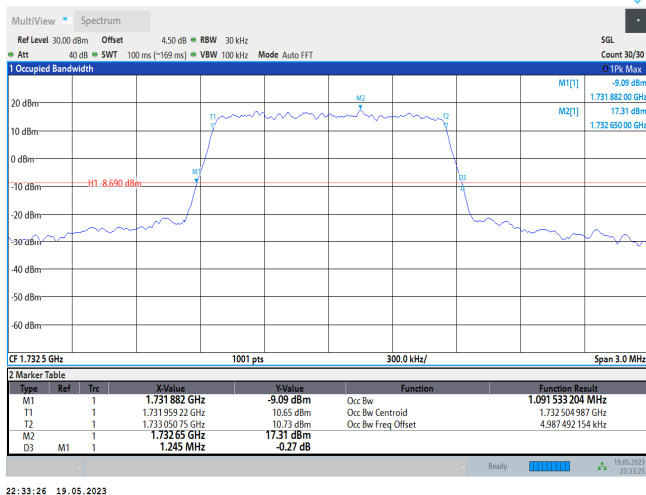
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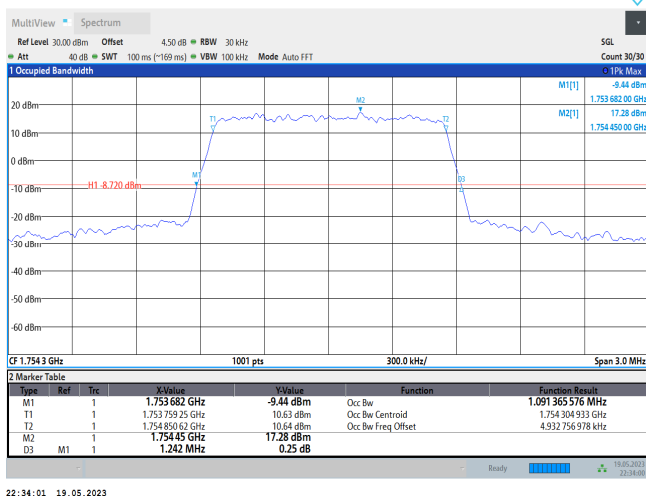
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Band4-1.4MHz-16QAM-20175-6RB#0



Band4-1.4MHz-16QAM-20393-6RB#0

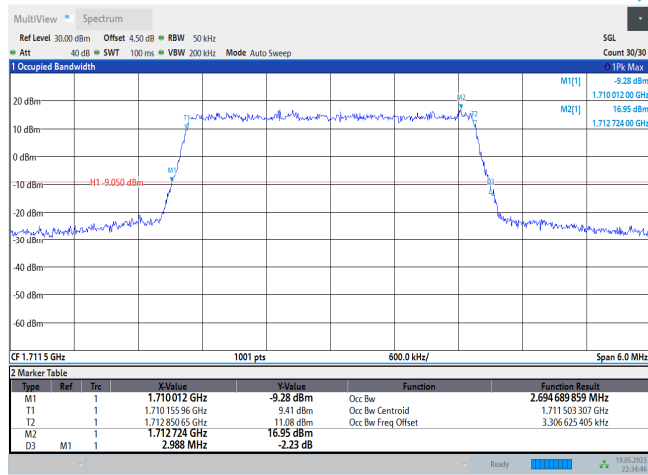


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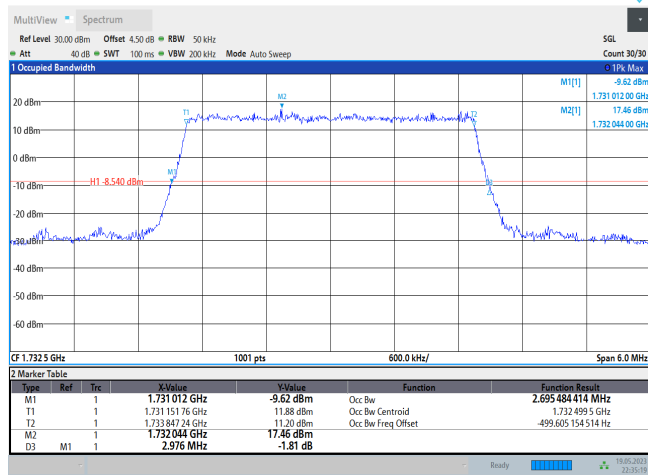
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Band4-3MHz-QPSK-19965-15RB#0



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Band4-3MHz-QPSK-20175-15RB#0



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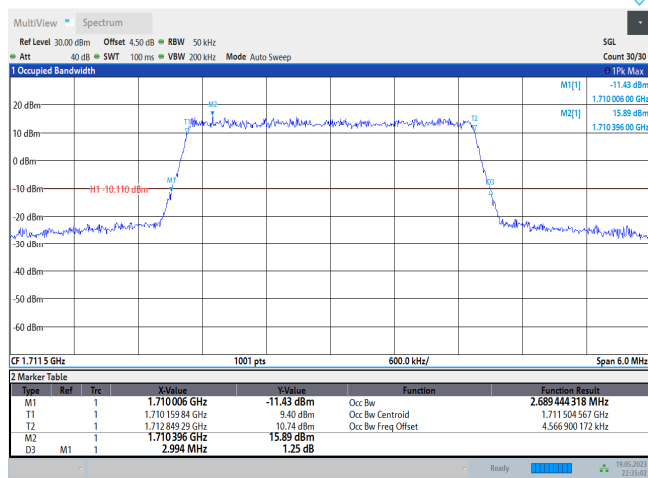


Band4-3MHz-QPSK-20385-15RB#0



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Band4-3MHz-16QAM-19965-15RB#0



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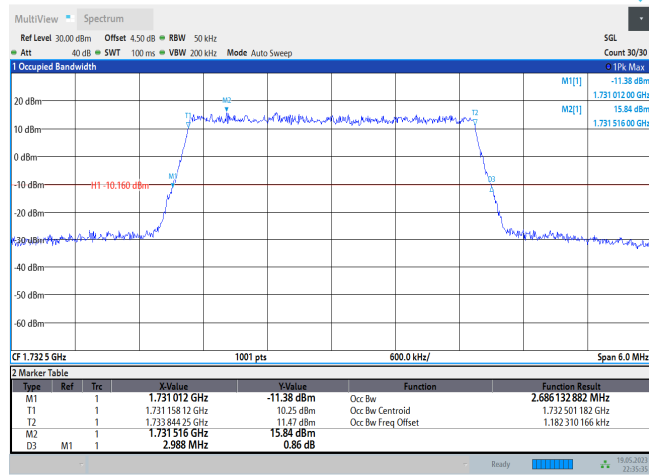


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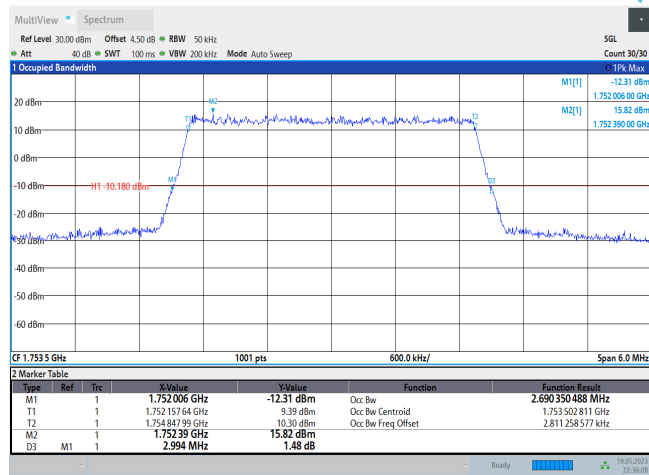
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Band4-3MHz-16QAM-20175-15RB#0



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Band4-3MHz-16QAM-20385-15RB#0



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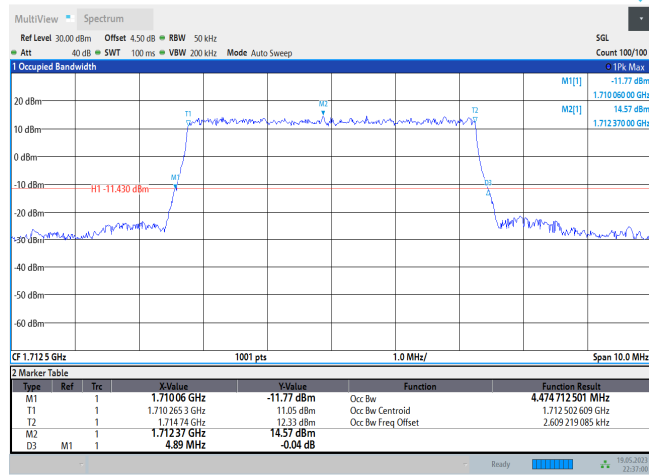


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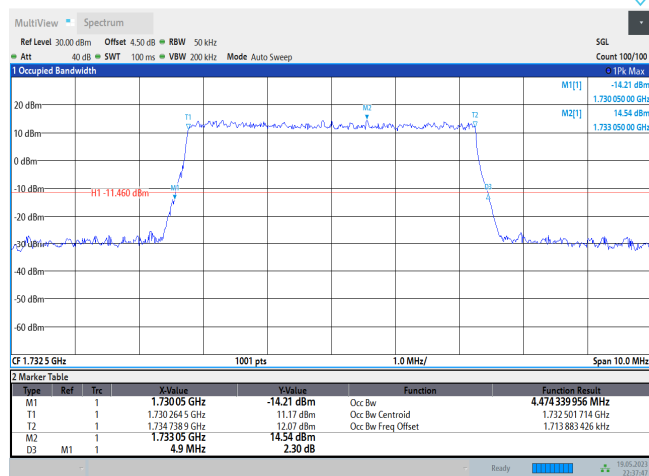
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Band4-5MHz-QPSK-19975-25RB#0



22:37:01 19.05.2023

Band4-5MHz-QPSK-20175-25RB#0



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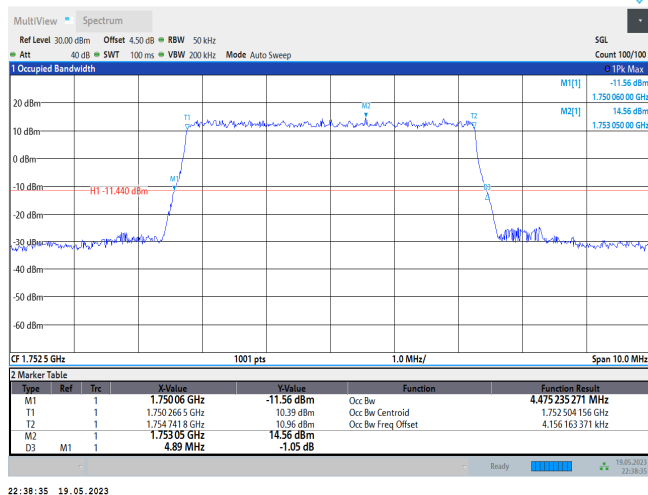
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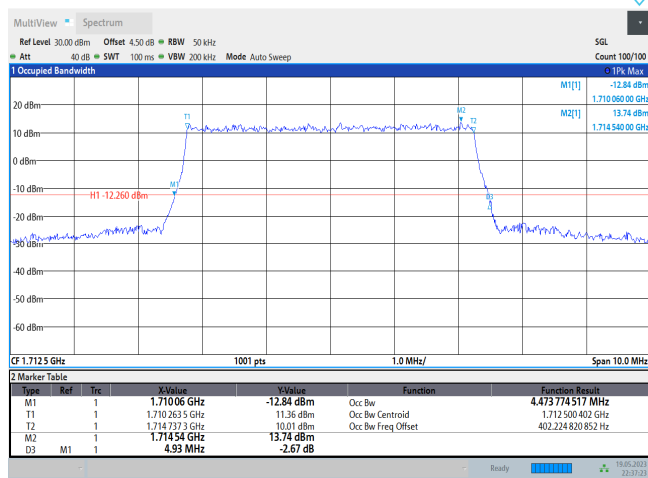
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Band4-5MHz-QPSK-20375-25RB#0



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Band4-5MHz-16QAM-19975-25RB#0



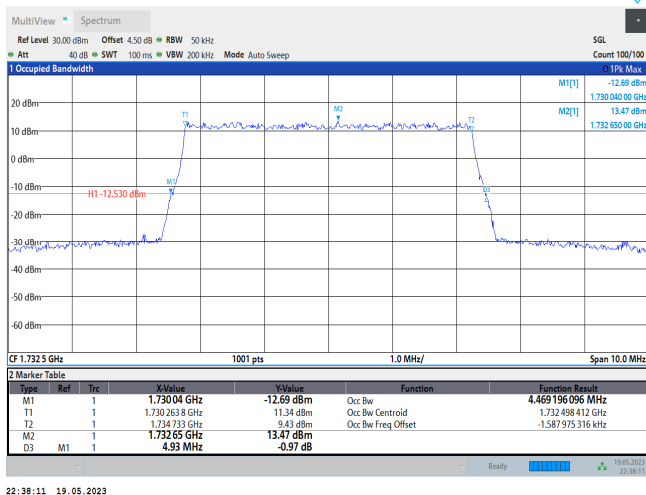
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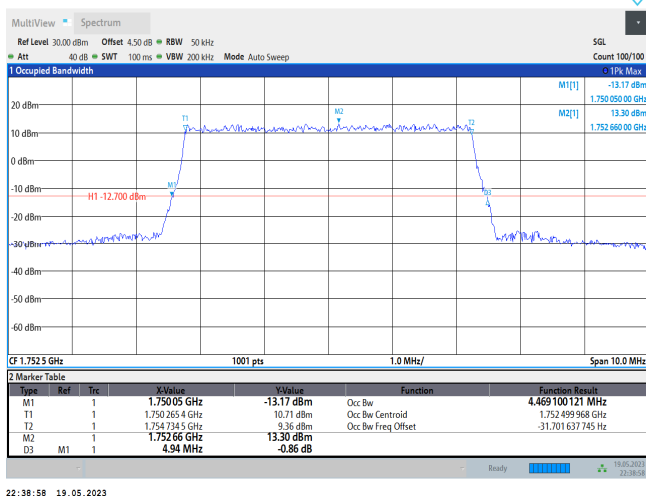
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Band4-5MHz-16QAM-20175-25RB#0



Band4-5MHz-16QAM-20375-25RB#0

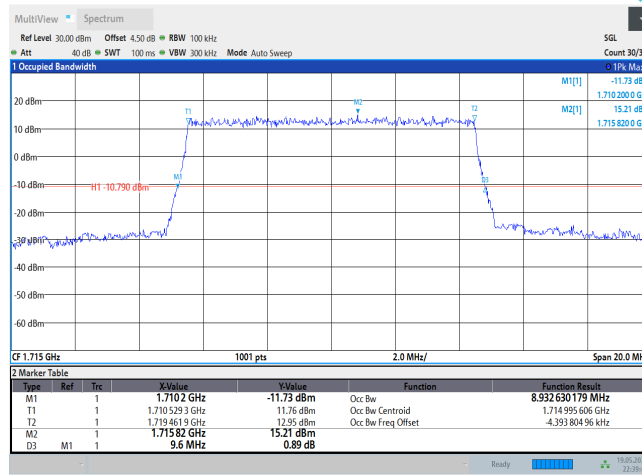


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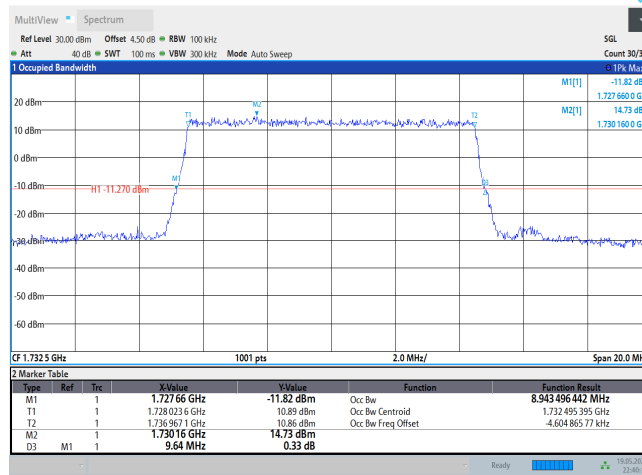
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Band4-10MHz-QPSK-20000-50RB#0



22:39:44 19.05.2023

Band4-10MHz-QPSK-20175-50RB#0



22:40:17 19.05.2023

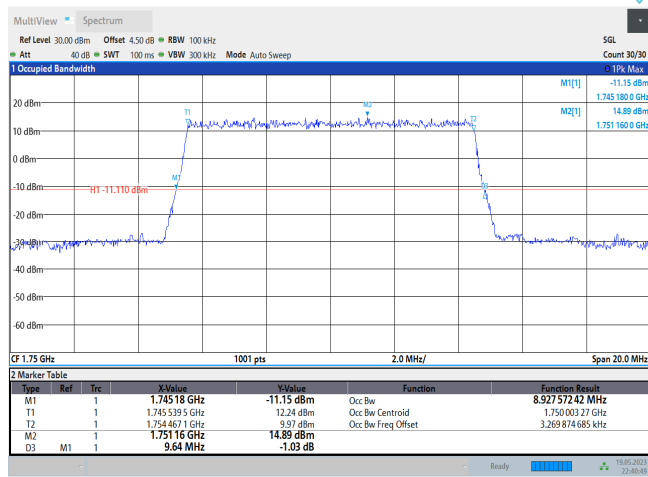


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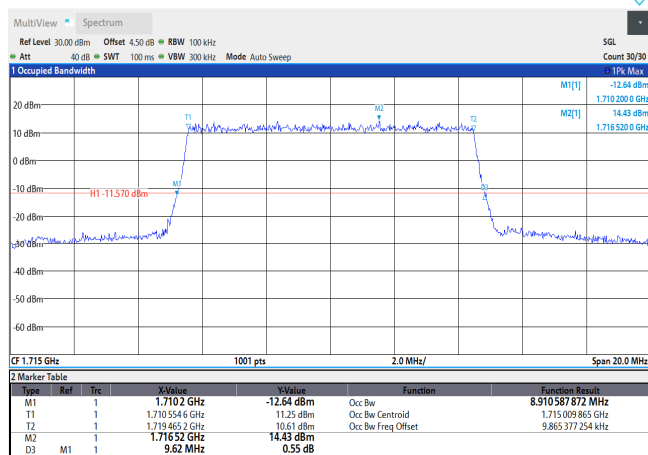
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Band4-10MHz-QPSK-20350-50RB#0



22:40:49 19.05.2023

Band4-10MHz-16QAM-20000-50RB#0



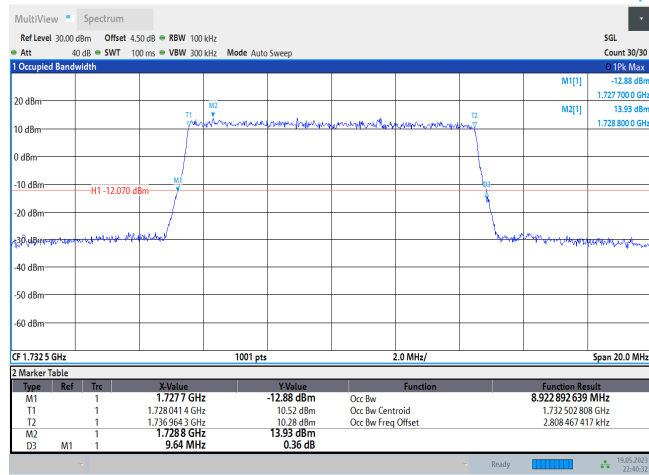
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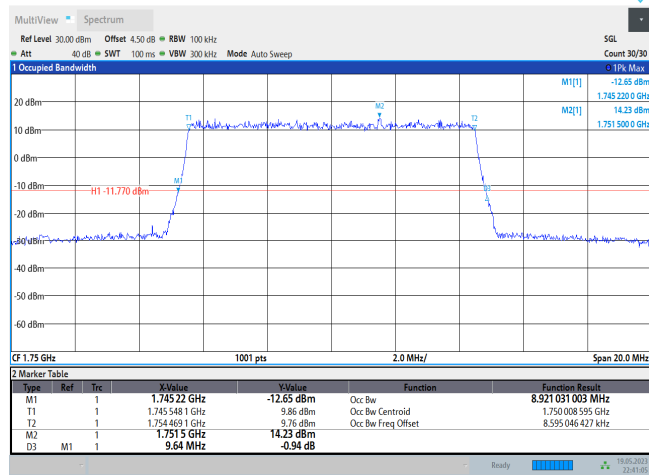
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Band4-10MHz-16QAM-20175-50RB#0



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Band4-10MHz-16QAM-20350-50RB#0



22:41:06 19.05.2023



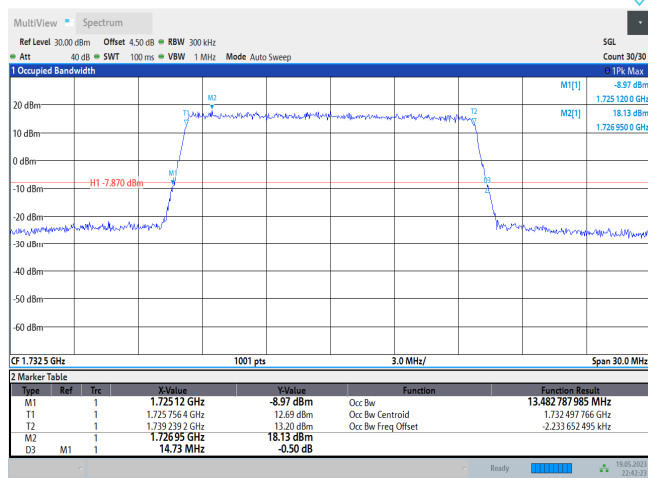


Band4-15MHz-QPSK-20025-75RB#0



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Band4-15MHz-QPSK-20175-75RB#0



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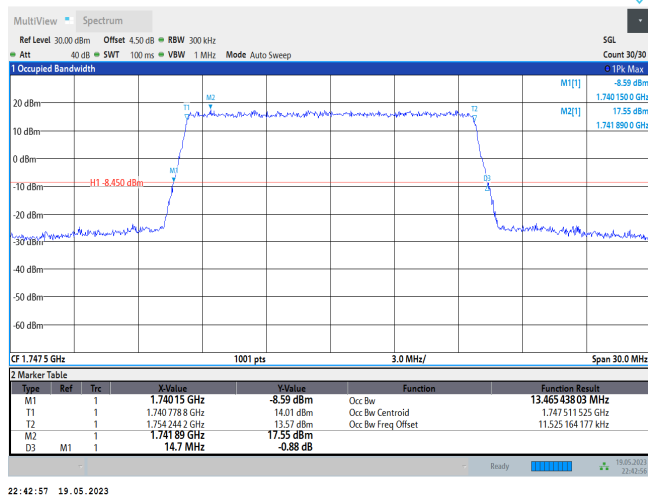


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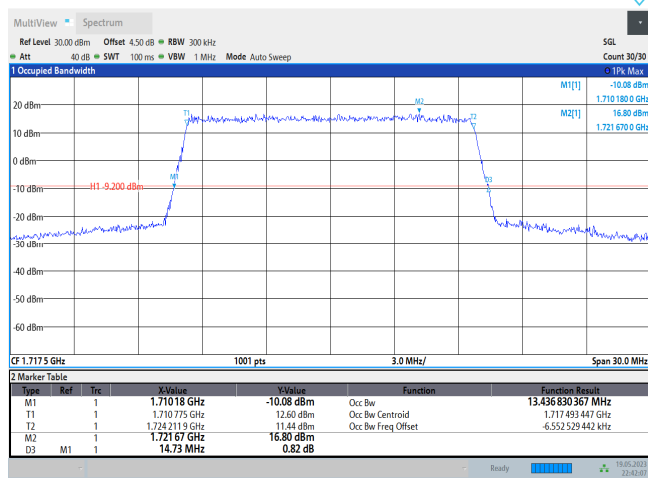
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-16QAM-20025-75RB#0



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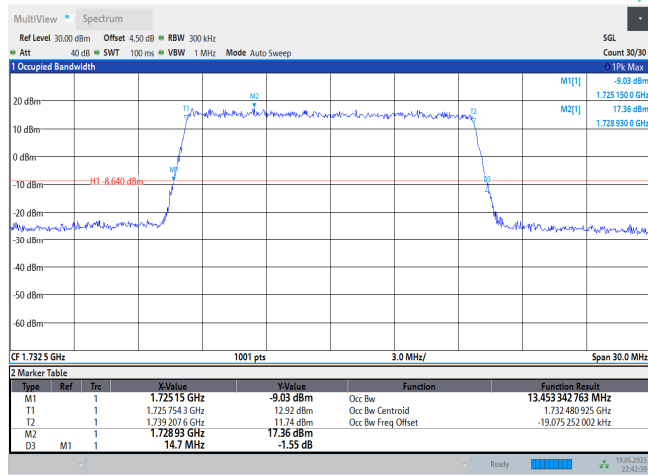


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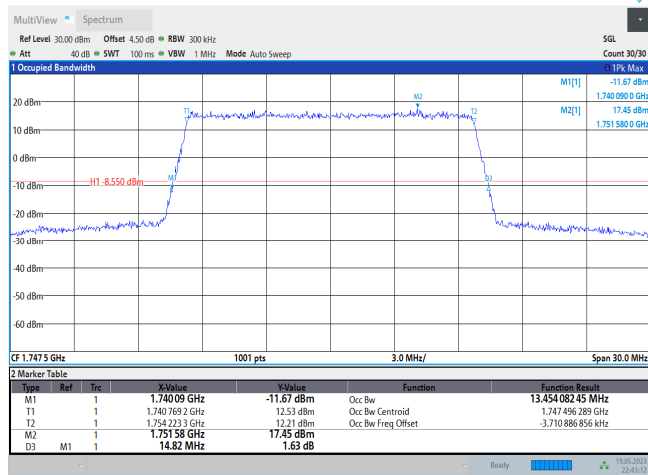
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Band4-15MHz-16QAM-20175-75RB#0



22:42:40 19.05.2023

Band4-15MHz-16QAM-20325-75RB#0

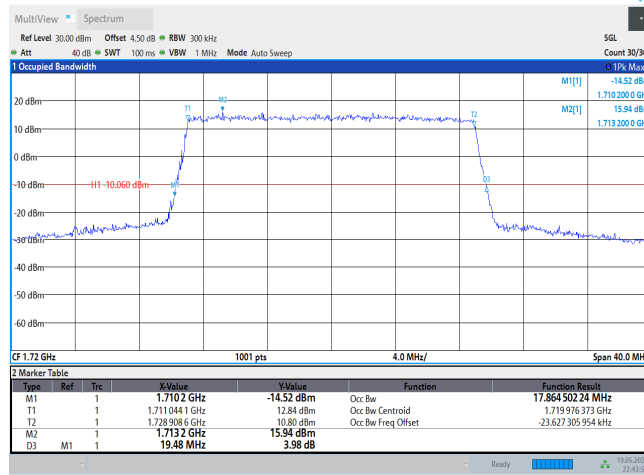


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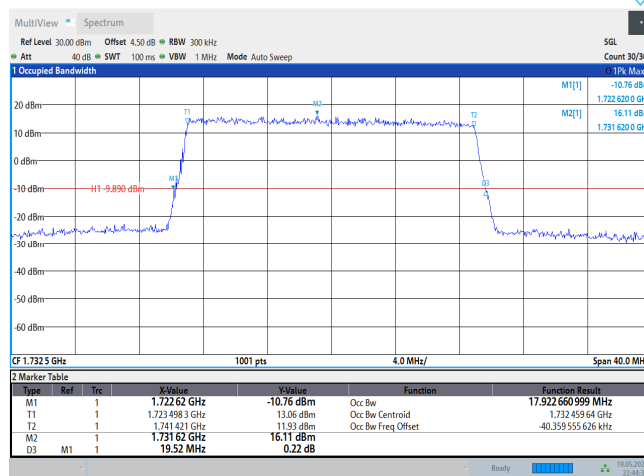
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Band4-20MHz-QPSK-20050-100RB#0



22:43:58 19.05.2023

Band4-20MHz-QPSK-20175-100RB#0



22:44:31 19.05.2023



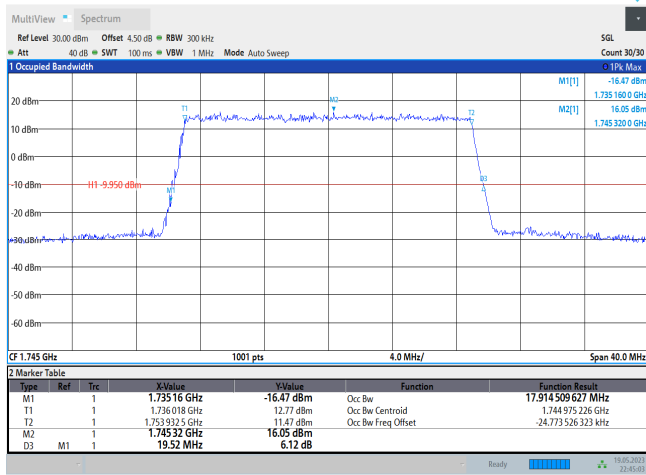
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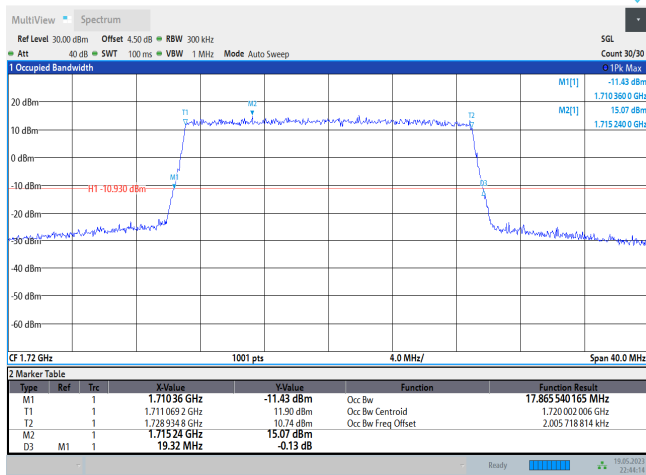
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Band4-20MHz-QPSK-20300-100RB#0



22:45:04 19.05.2023

Band4-20MHz-16QAM-20050-100RB#0

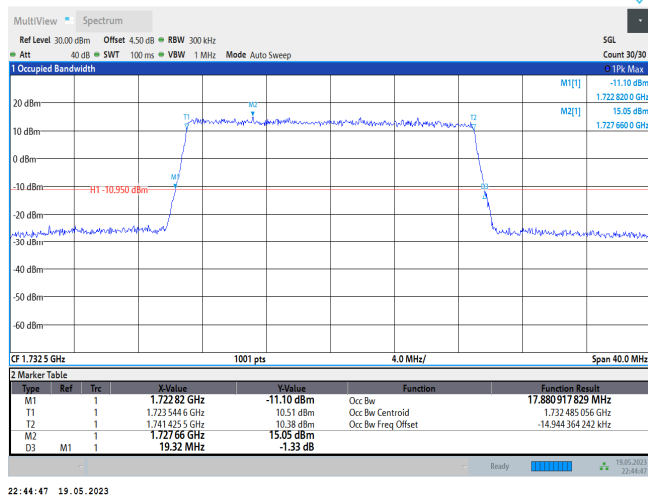


22:44:15 19.05.2023



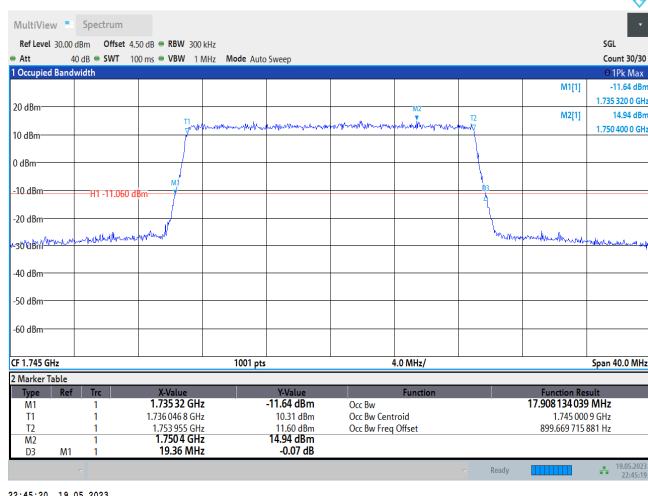
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Band4-20MHz-16QAM-20175-100RB#0



22:44:47 19.05.2023

Band4-20MHz-16QAM-20300-100RB#0



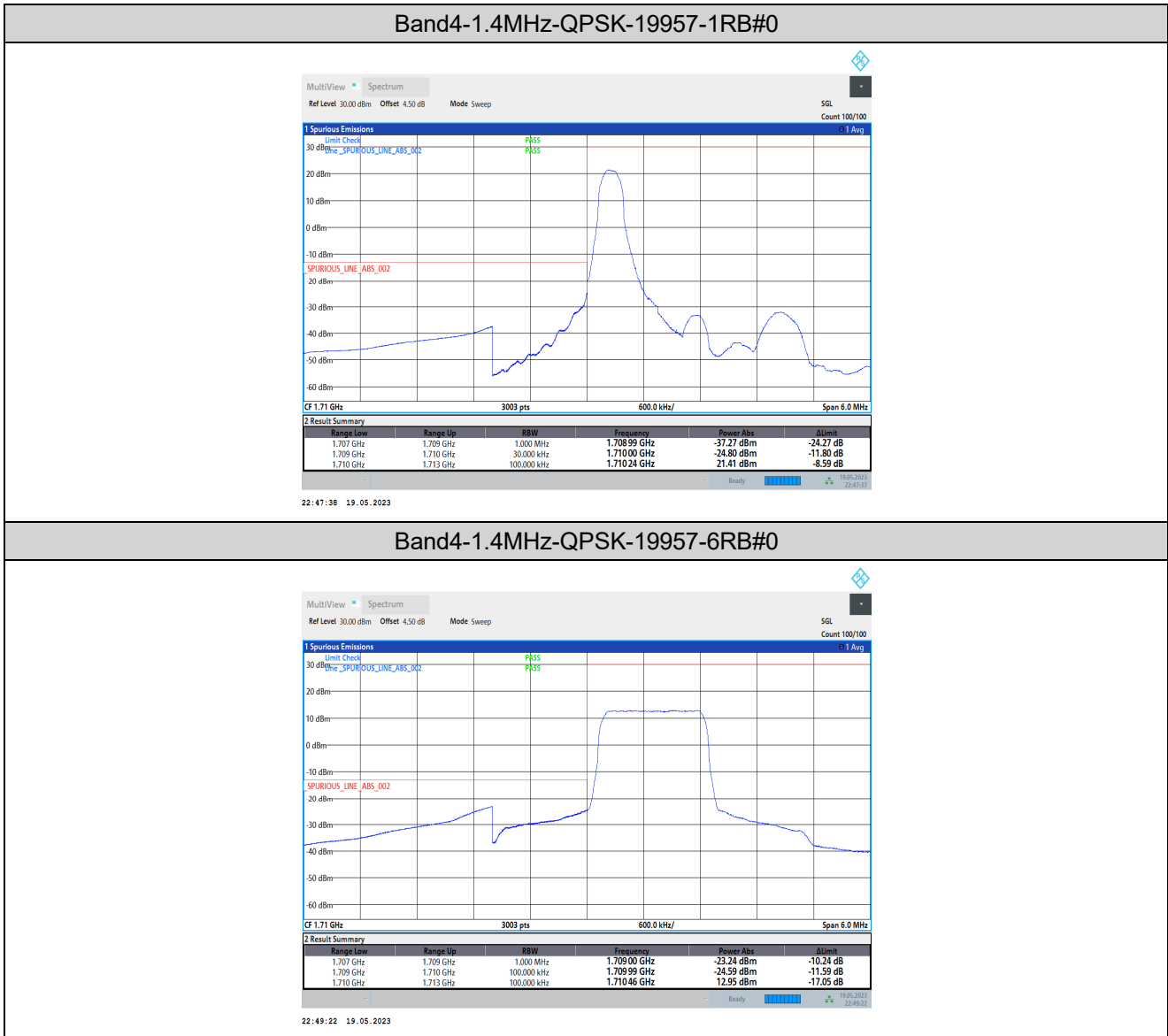
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## Band Edge

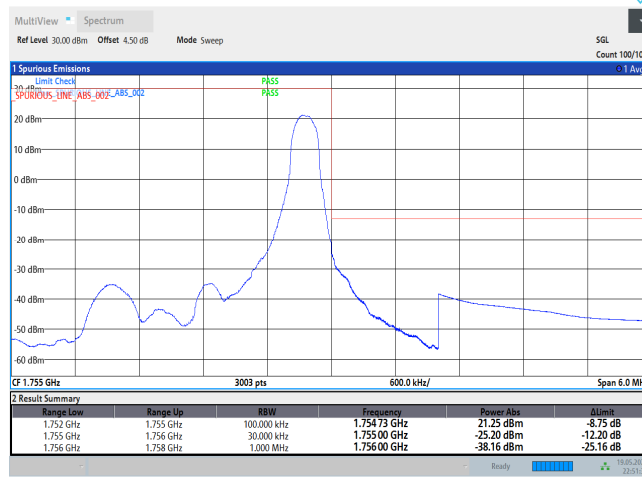
## Test Graphs



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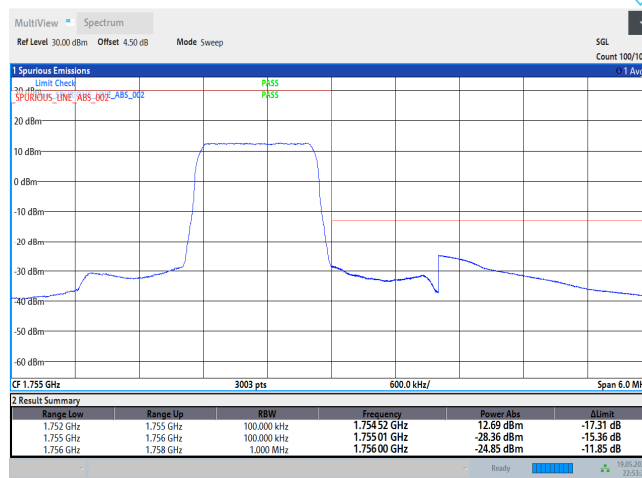
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Band4-1.4MHz-QPSK-20393-1RB#5



22:51:40 19.05.2023

Band4-1.4MHz-QPSK-20393-6RB#0



22:53:24 19.05.2023



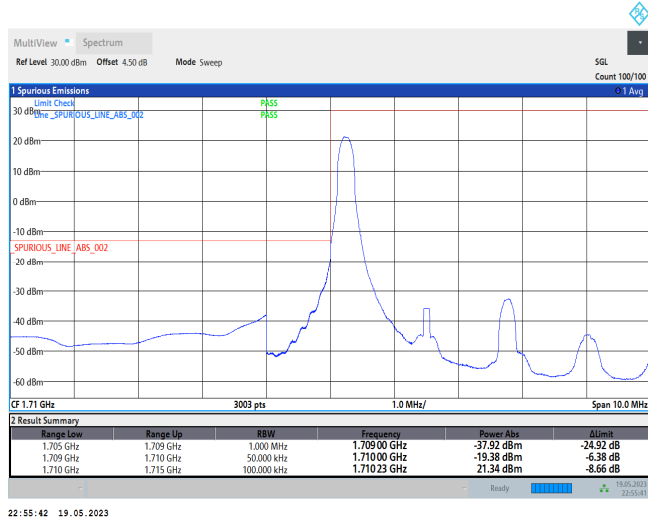
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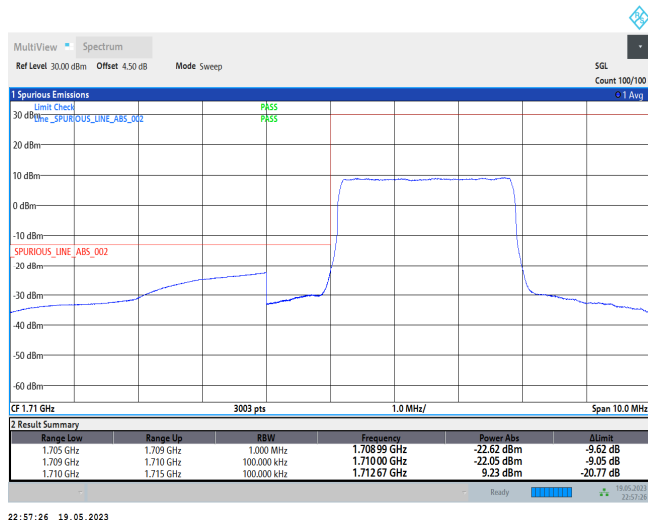


Band4-3MHz-QPSK-19965-1RB#0



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Band4-3MHz-QPSK-19965-15RB#0



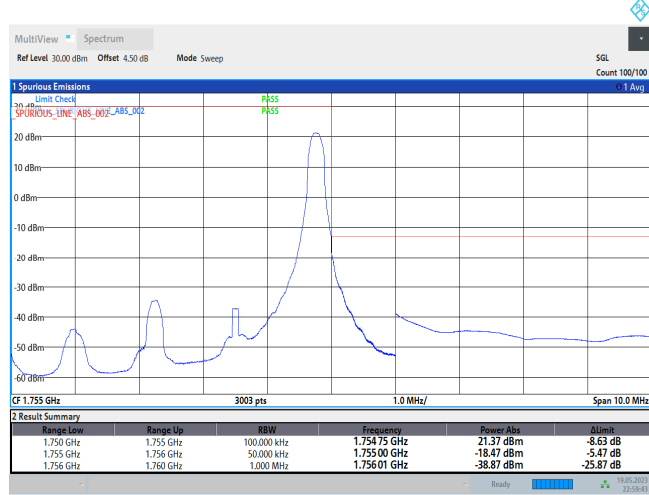
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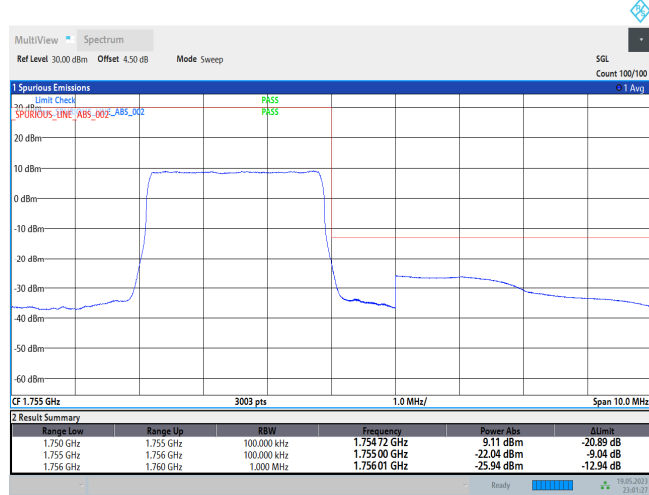
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Band4-3MHz-QPSK-20385-1RB#14



22:59:44 19.05.2023

Band4-3MHz-QPSK-20385-15RB#0



23:01:28 19.05.2023

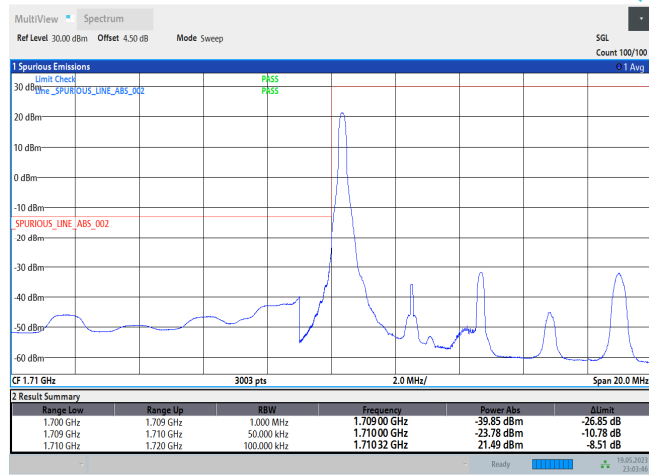


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Band4-5MHz-QPSK-19975-1RB#0



23:03:46 19. 05. 2023

Band4-5MHz-QPSK-19975-25RB#0



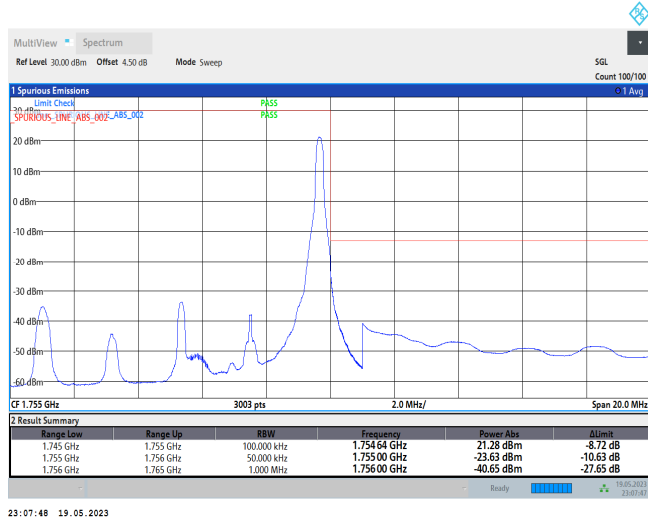
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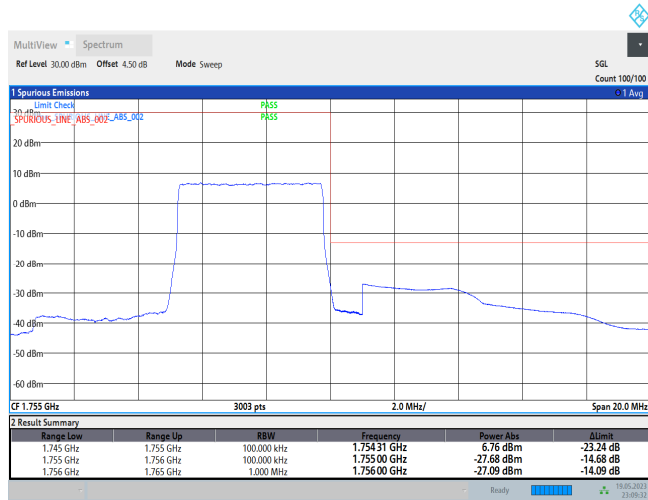
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Band4-5MHz-QPSK-20375-1RB#24



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Band4-5MHz-QPSK-20375-25RB#0



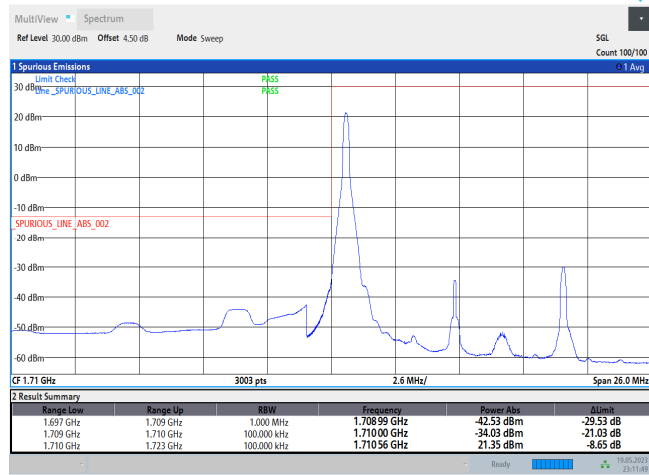
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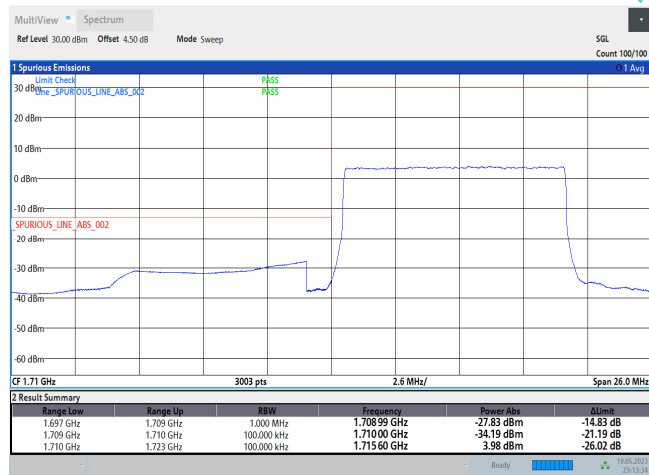
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Band4-10MHz-QPSK-20000-1RB#0



23:11:50 19.05.2023

Band4-10MHz-QPSK-20000-50RB#0



23:13:34 19.05.2023

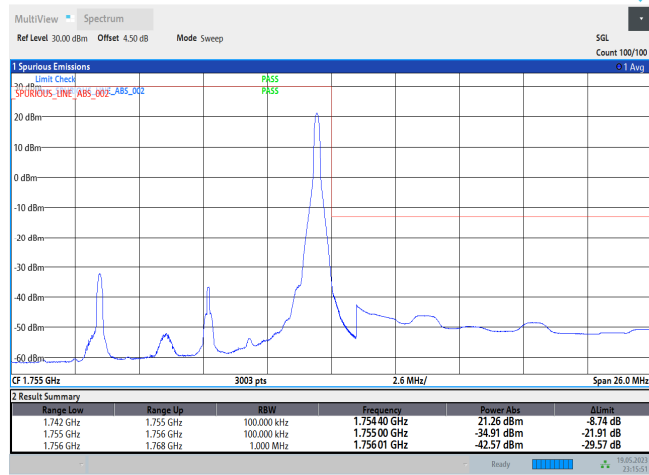


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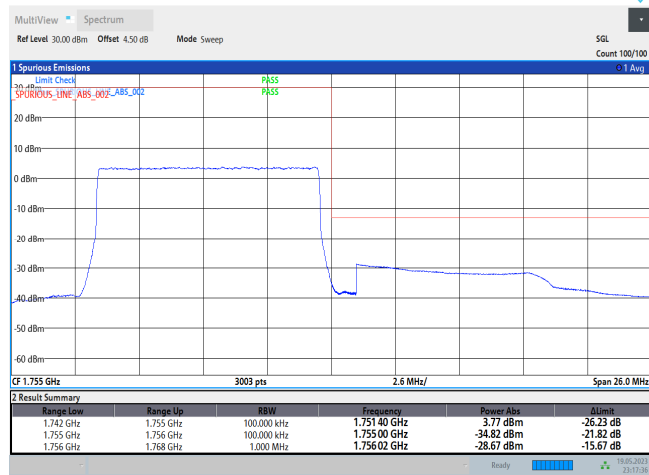
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Band4-10MHz-QPSK-20350-1RB#49



23:15:52 19.05.2023

Band4-10MHz-QPSK-20350-50RB#0



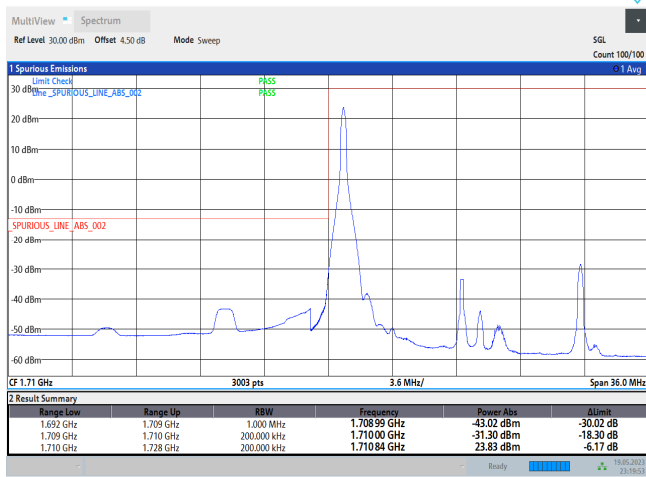
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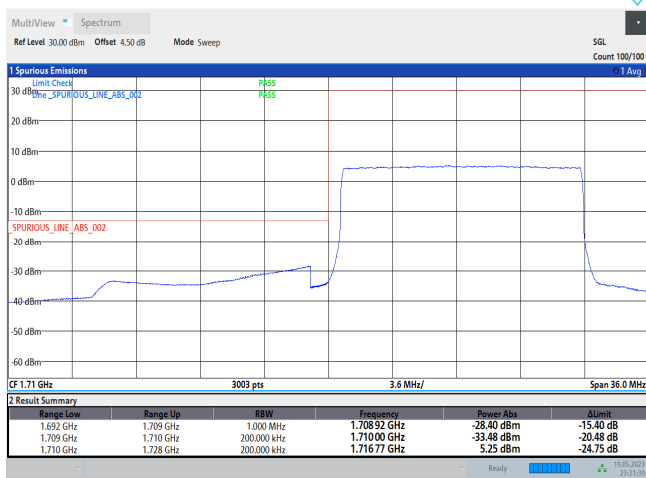
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Band4-15MHz-QPSK-20025-1RB#0



23:19:54 19.05.2023

Band4-15MHz-QPSK-20025-75RB#0



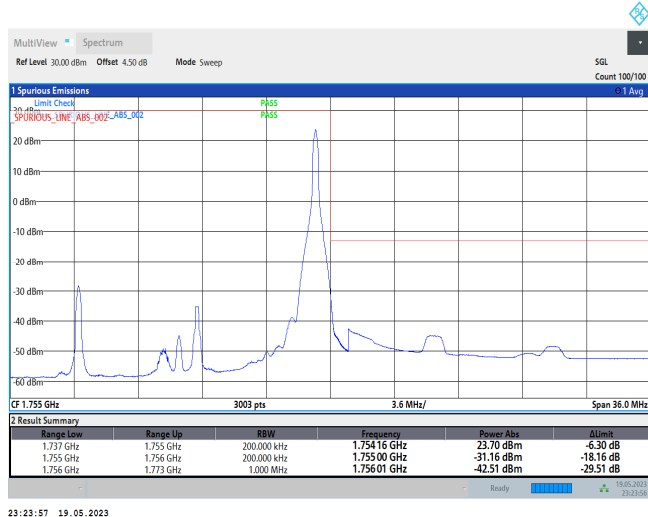
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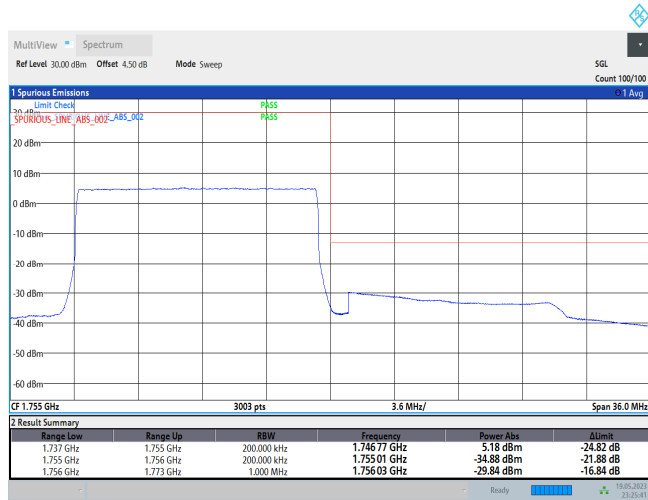
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Band4-15MHz-QPSK-20325-1RB#74



23:23:57 19.05.2023

Band4-15MHz-QPSK-20325-75RB#0



23:25:41 19.05.2023

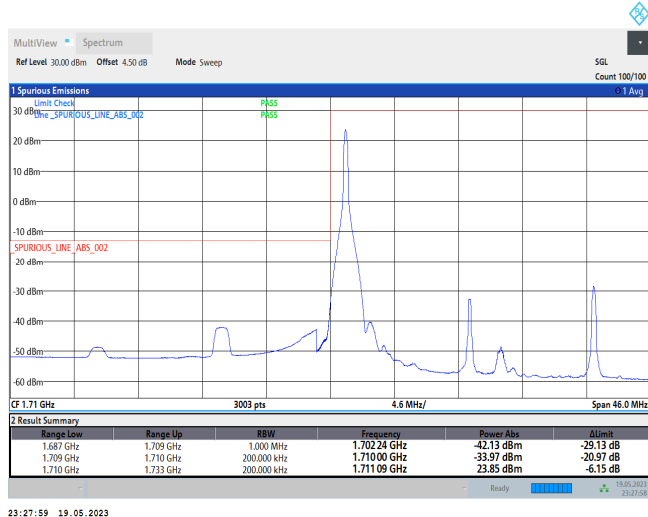


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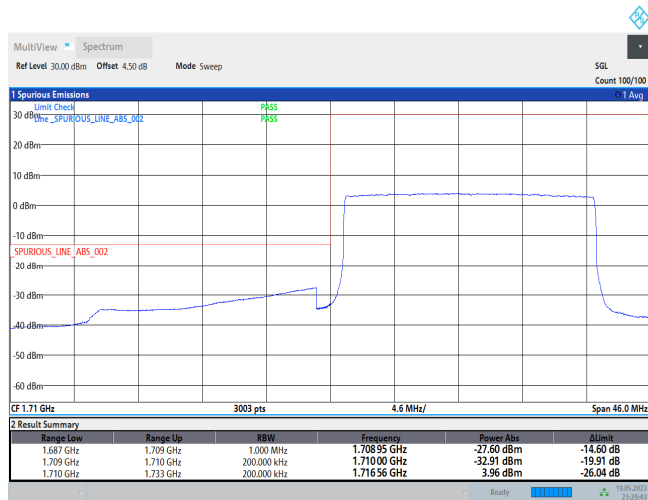


Band4-20MHz-QPSK-20050-1RB#0



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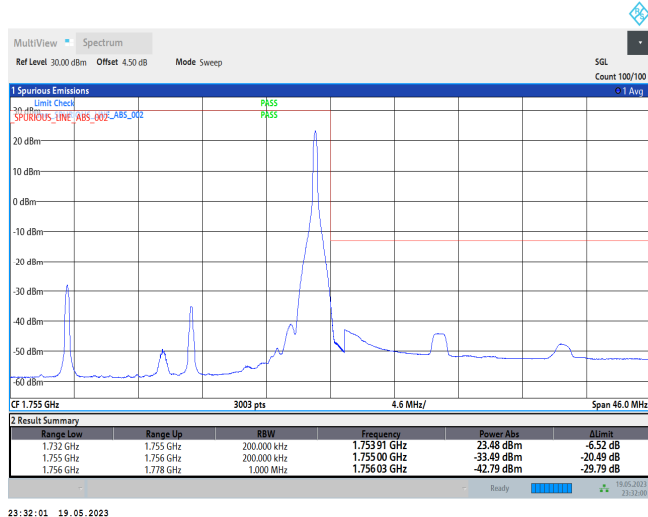
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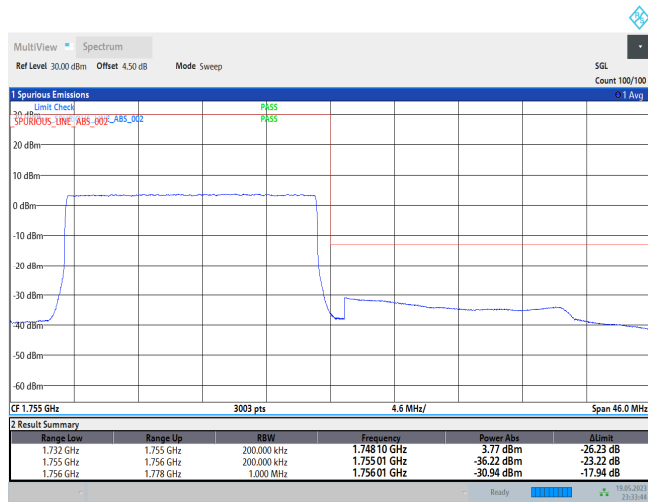
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Band4-20MHz-QPSK-20300-1RB#99



23:32:01 19.05.2023

Band4-20MHz-QPSK-20300-100RB#0



23:33:45 19.05.2023

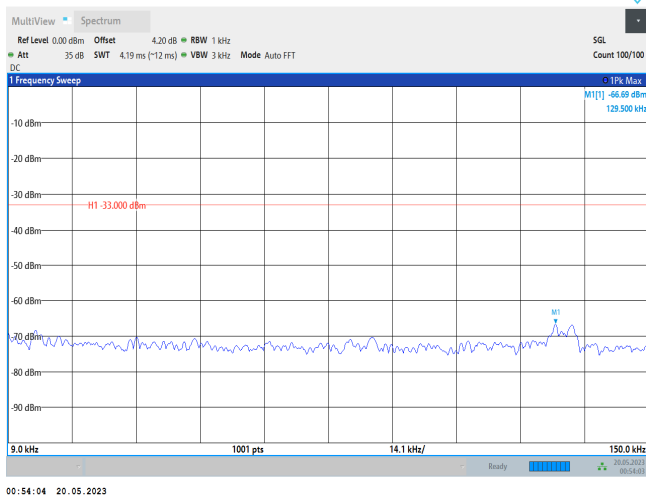


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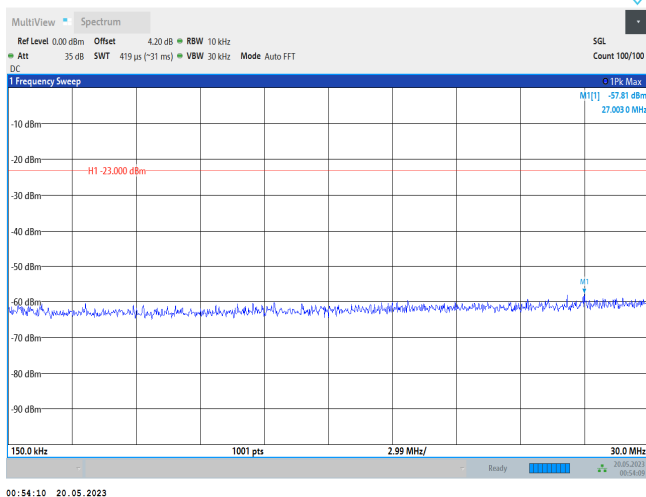
## Conducted Spurious Emission

### Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



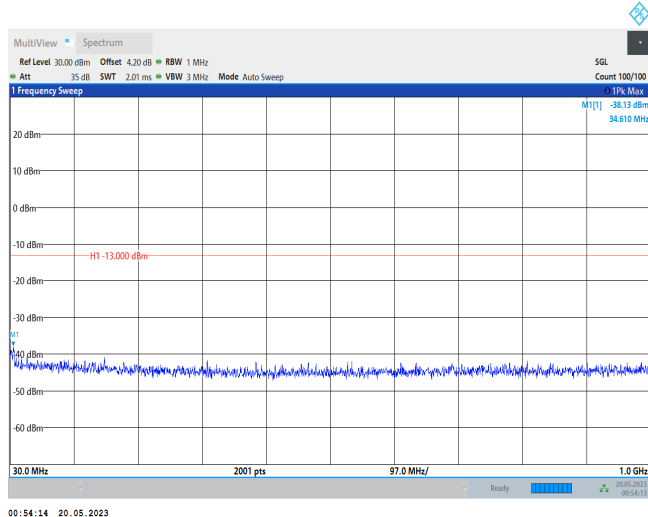
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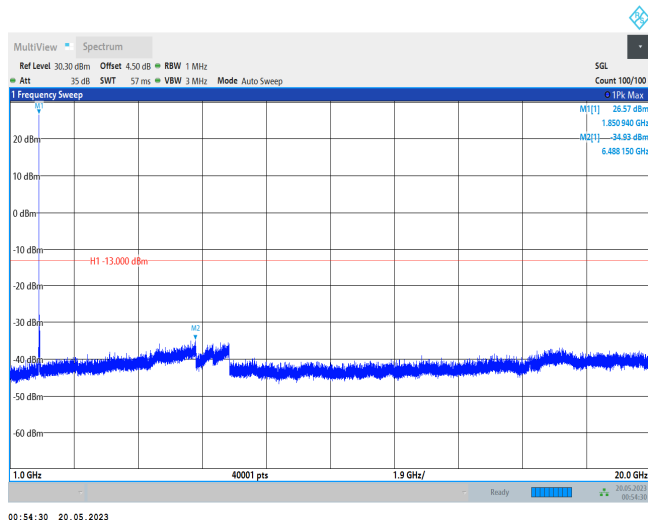
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz

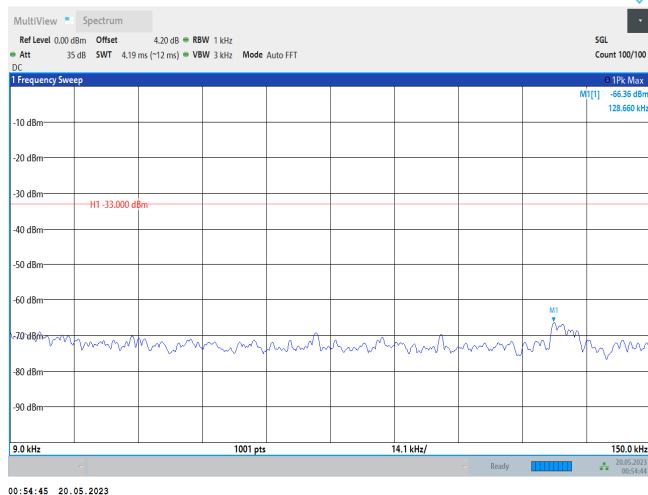


Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



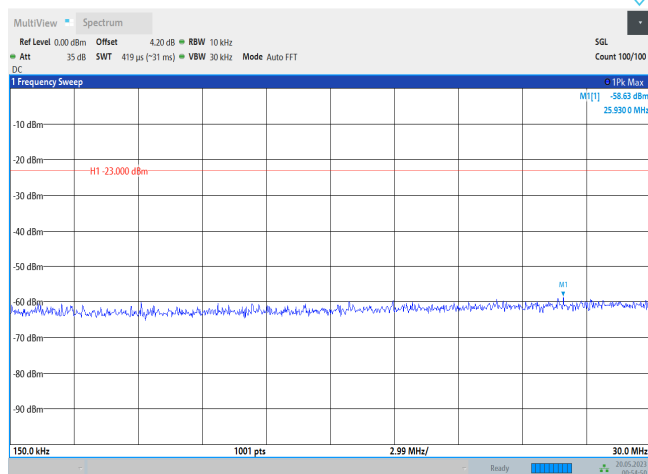
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



00:54:45 20.05.2023

Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz

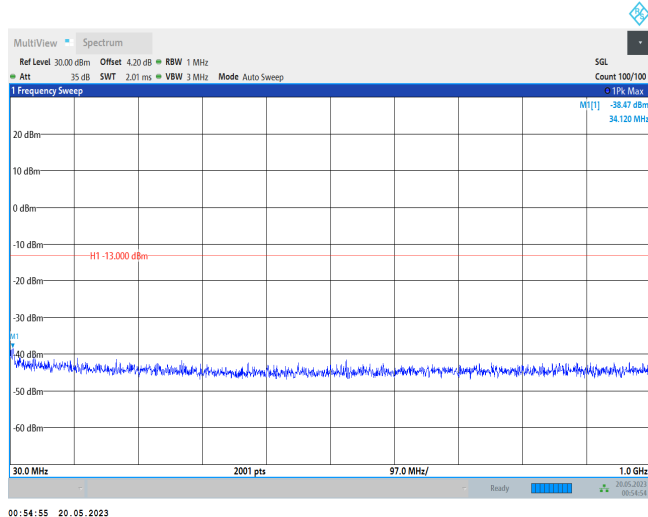


00:54:51 20.05.2023

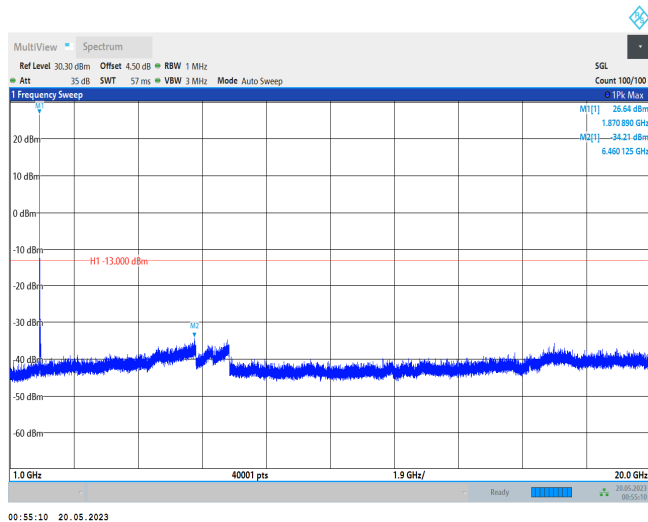


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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz

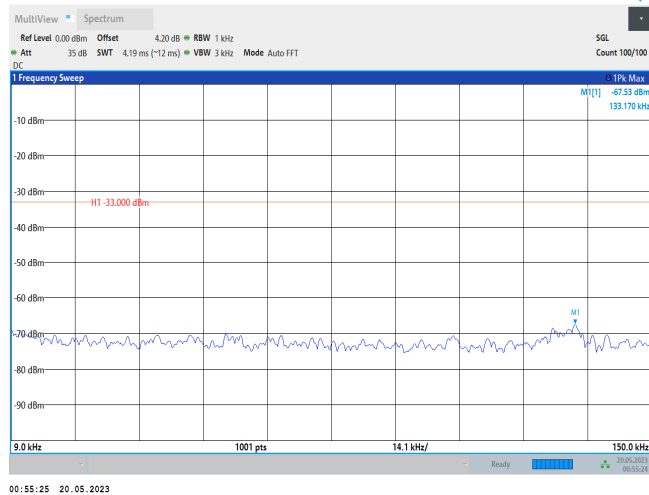


Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz

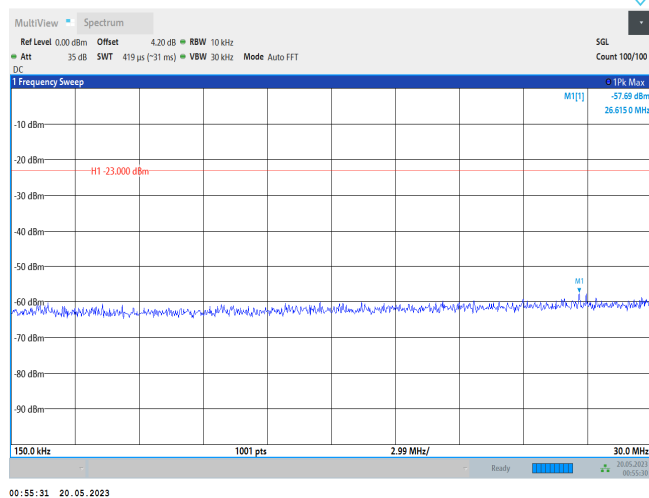


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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



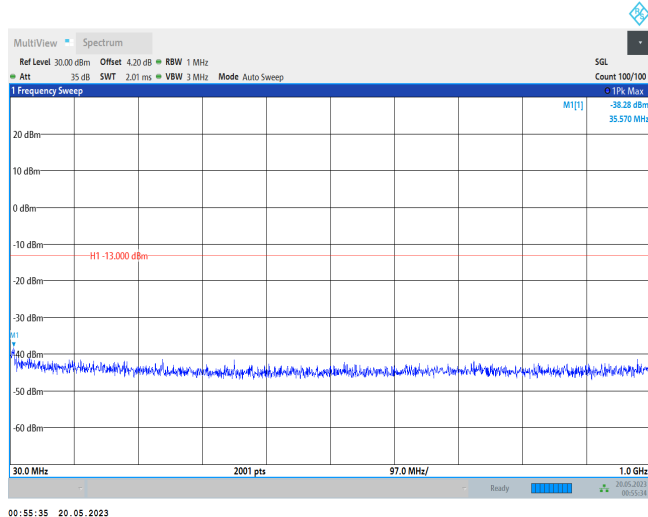
Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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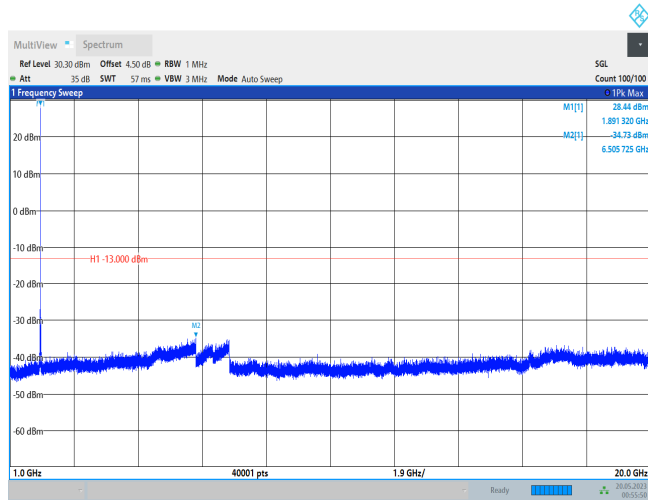
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



00:55:35 20.05.2023

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



00:55:50 20.05.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band 4\_20MHz\_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	53.48	-45.88	29.43	-58.23	-13.00	45.23	296	107	Horizontal
2	5133.27	40.10	-44.24	32.60	-66.80	-13.00	53.80	265	12	Horizontal
3	6844.36	46.24	-42.50	35.89	-55.63	-13.00	42.63	241	24	Horizontal
4	8555.45	36.05	-39.68	38.11	-60.78	-13.00	47.78	142	0	Horizontal
5	10266.54	33.98	-36.74	38.79	-59.22	-13.00	46.22	263	107	Horizontal
6	11977.63	32.50	-35.32	38.62	-59.45	-13.00	46.45	228	192	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	3422.25	63.99	-45.88	29.43	-47.72	-13.00	34.72	265	262	Vertical
2	5133.27	40.25	-44.24	32.60	-66.65	-13.00	53.65	295	0	Vertical
3	6844.36	49.36	-42.50	35.89	-52.51	-13.00	39.51	241	1	Vertical
4	8555.45	38.13	-39.68	38.11	-58.70	-13.00	45.70	142	358	Vertical
5	10266.54	34.95	-36.74	38.79	-58.25	-13.00	45.25	263	279	Vertical
6	11977.63	34.44	-35.32	38.62	-57.51	-13.00	44.51	228	297	Vertical



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**Test Band = LTE Band 4\_20MHz\_TM1**

**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	47.14	-45.82	29.42	-64.51	-13.00	51.51	201	69	Horizontal
2	5170.77	41.16	-44.19	32.60	-65.69	-13.00	52.69	142	357	Horizontal
3	6894.36	41.51	-42.44	35.99	-60.20	-13.00	47.20	263	21	Horizontal
4	8617.95	35.48	-39.74	38.18	-61.34	-13.00	48.34	225	1	Horizontal
5	10341.54	34.06	-36.68	38.88	-59.00	-13.00	46.00	284	38	Horizontal
6	12065.13	32.68	-35.25	38.67	-59.17	-13.00	46.17	123	123	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	3447.18	53.44	-45.82	29.42	-58.21	-13.00	45.21	296	310	Vertical
2	5170.77	41.23	-44.19	32.60	-65.62	-13.00	52.62	265	210	Vertical
3	6894.36	46.09	-42.44	35.99	-55.62	-13.00	42.62	284	229	Vertical
4	8617.95	38.00	-39.74	38.18	-58.82	-13.00	45.82	142	4	Vertical
5	10341.54	35.95	-36.68	38.88	-57.11	-13.00	44.11	263	11	Vertical
6	12065.13	34.04	-35.25	38.67	-57.81	-13.00	44.81	221	260	Vertical



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**Test Band = LTE Band 4\_20MHz\_TM1**

**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	50.61	-45.76	29.41	-61.00	-13.00	48.00	296	279	Horizontal
2	5208.27	40.30	-44.14	32.60	-66.50	-13.00	53.50	265	166	Horizontal
3	6944.36	39.04	-42.50	36.09	-62.63	-13.00	49.63	284	99	Horizontal
4	8680.45	36.15	-39.46	38.25	-60.32	-13.00	47.32	142	0	Horizontal
5	10416.54	31.38	-36.46	38.96	-61.38	-13.00	48.38	263	132	Horizontal
6	12152.63	32.27	-35.22	38.75	-59.46	-13.00	46.46	225	149	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	3472.5	58.45	-45.76	29.41	-53.16	-13.00	40.16	196	260	Vertical
2	5208.27	41.29	-44.14	32.60	-65.51	-13.00	52.51	265	260	Vertical
3	6944.36	43.29	-42.50	36.09	-58.38	-13.00	45.38	284	25	Vertical
4	8680.45	38.08	-39.46	38.25	-58.39	-13.00	45.39	142	0	Vertical
5	10416.54	31.84	-36.46	38.96	-60.92	-13.00	47.92	263	25	Vertical
6	12152.63	34.23	-35.22	38.75	-57.50	-13.00	44.50	228	294	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
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	8.40	0.004848	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	0.70	0.000404	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	4.00	0.002309	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.90	-0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	2.80	0.001616	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-3.50	-0.002020	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	12.80	0.007388	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	3.90	0.002251	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-0.80	-0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-4.30	-0.002482	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	7.30	0.004214	PASS

---End of Attachment---



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