

# Appendix B.4

## 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	22.77	24.15	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.91	24.29	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.74	24.12	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.88	23.26	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.85	24.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.99	24.37	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.85	24.23	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.96	23.34	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.99	24.37	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.11	24.49	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.00	24.38	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.08	23.46	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.05	23.43	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.19	23.57	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.06	23.44	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.98	22.36	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.01	23.39	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.27	23.65	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.12	23.50	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.06	22.44	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.23	23.61	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.44	23.82	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.23	23.61	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.20	22.58	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.80	24.18	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.84	24.22	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.81	24.19	30.00	PASS



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Band4	3MHz	QPSK	19965	15RB#0	21.88	23.26	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.94	24.32	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.95	24.33	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.92	24.30	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.96	23.34	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.00	24.38	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.03	24.41	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.07	24.45	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.06	23.44	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.09	23.47	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.09	23.47	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.07	23.45	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.88	22.26	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.20	23.58	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.19	23.57	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.15	23.53	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.00	22.38	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.25	23.63	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.36	23.74	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.31	23.69	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.12	22.50	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.71	24.09	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.04	24.42	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.72	24.10	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.88	23.26	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.83	24.21	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.12	24.50	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.82	24.20	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.94	23.32	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.88	24.26	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.17	24.55	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.00	24.38	30.00	PASS



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Band4	5MHz	QPSK	20375	25RB#0	22.09	23.47	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.94	23.32	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.35	23.73	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.03	23.41	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.89	22.27	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.01	23.39	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.35	23.73	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.04	23.42	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.95	22.33	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.09	23.47	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.44	23.82	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.16	23.54	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.13	22.51	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.72	24.10	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.91	24.29	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.82	24.20	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.92	23.30	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.86	24.24	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.06	24.44	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.90	24.28	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.97	23.35	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.90	24.28	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.10	24.48	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.06	24.44	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.07	23.45	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.98	23.36	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.23	23.61	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.08	23.46	30.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.93	22.31	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.12	23.50	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.30	23.68	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.23	23.61	30.00	PASS



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Band4	10MHz	16QAM	20175	50RB#0	20.97	22.35	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.12	23.50	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.36	23.74	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.27	23.65	30.00	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.12	22.50	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.66	24.04	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.82	24.20	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.78	24.16	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.92	23.30	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.75	24.13	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.97	24.35	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.89	24.27	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.93	23.31	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.81	24.19	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.03	24.41	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.98	24.36	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.06	23.44	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.94	23.32	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.18	23.56	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.99	23.37	30.00	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.90	22.28	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.93	23.31	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.16	23.54	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.17	23.55	30.00	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.93	22.31	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.04	23.42	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.33	23.71	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.21	23.59	30.00	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.09	22.47	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.47	23.85	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.90	24.28	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.66	24.04	30.00	PASS



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Band4	20MHz	QPSK	20050	100RB#0	21.88	23.26	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.55	23.93	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.04	24.42	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.75	24.13	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.94	23.32	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.58	23.96	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.08	24.46	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.83	24.21	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.00	23.38	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.69	23.07	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.20	23.58	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.83	23.21	30.00	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.91	22.29	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.78	23.16	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.30	23.68	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.95	23.33	30.00	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.97	22.35	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.87	23.25	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.39	23.77	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.07	23.45	30.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.03	22.41	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	5.60	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.40	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.50	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.28	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.20	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.18	13	PASS



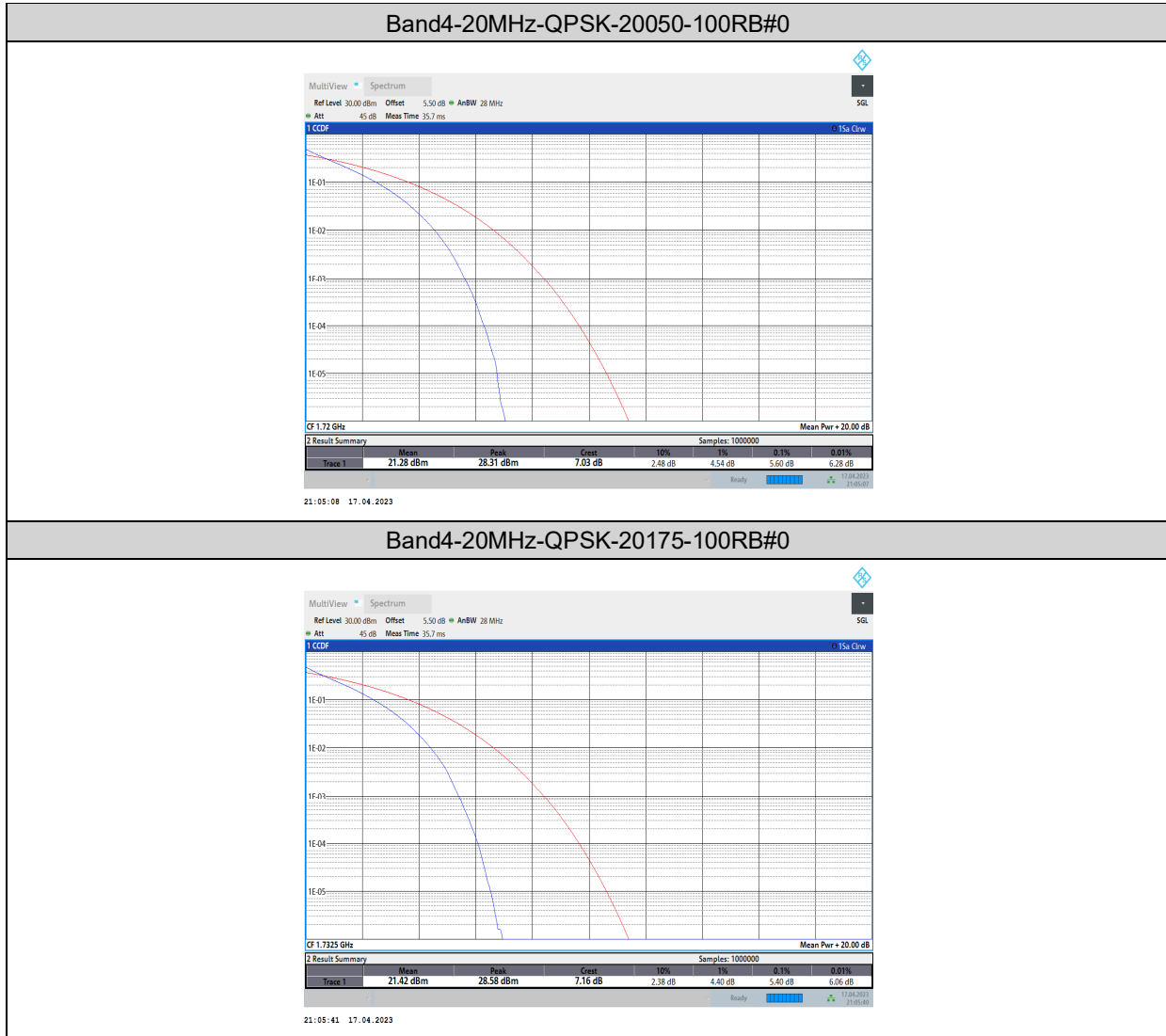
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Test Graphs



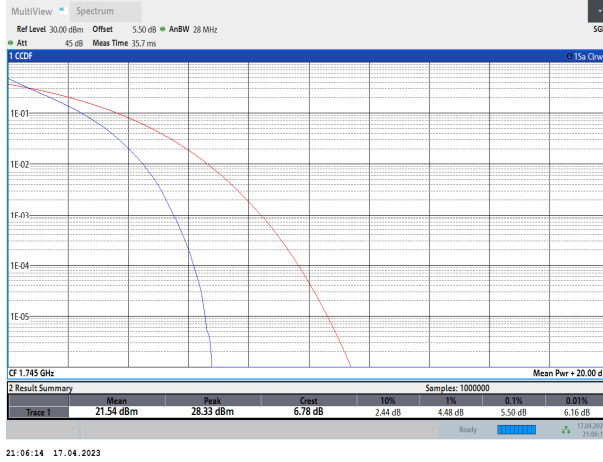
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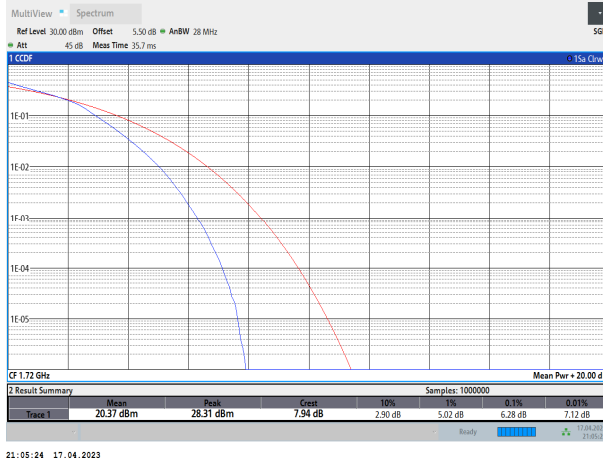
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Band4-20MHz-QPSK-20300-100RB#0



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

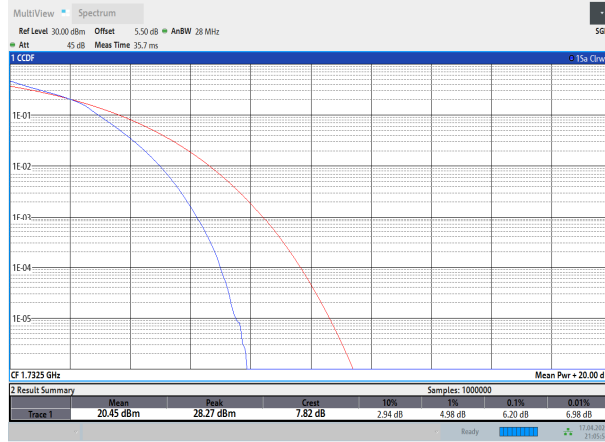


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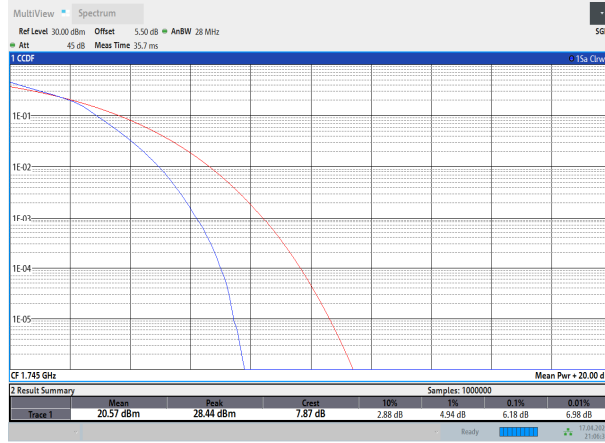
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Band4-20MHz-16QAM-20175-100RB#0



21:05:58 17.04.2023

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



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS



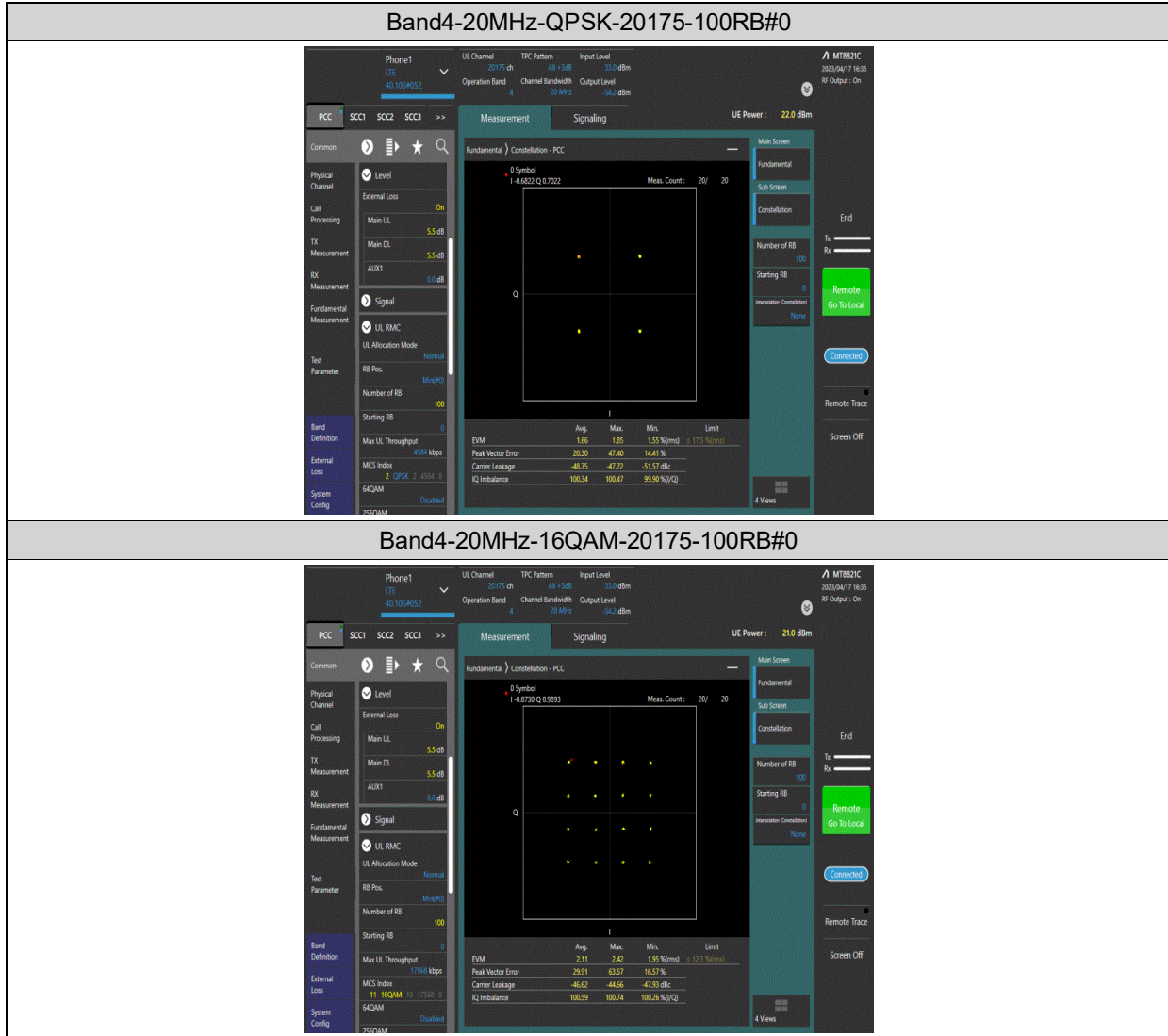
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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.086	1.29	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.085	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.086	1.31	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.098	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.097	1.31	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.686	2.92	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.688	2.92	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.686	2.91	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.680	2.91	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.677	2.92	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.677	2.91	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.469	4.83	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.464	4.83	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.471	4.81	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.469	4.87	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.464	4.86	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.462	4.86	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.927	9.60	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.931	9.68	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.921	9.56	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.920	9.54	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.913	9.72	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.924	9.52	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.494	14.67	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.464	14.67	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.475	14.73	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.467	14.64	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.444	14.73	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.457	14.73	PASS



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Report No.: SEWM2304000113RG01

Rev.: 01

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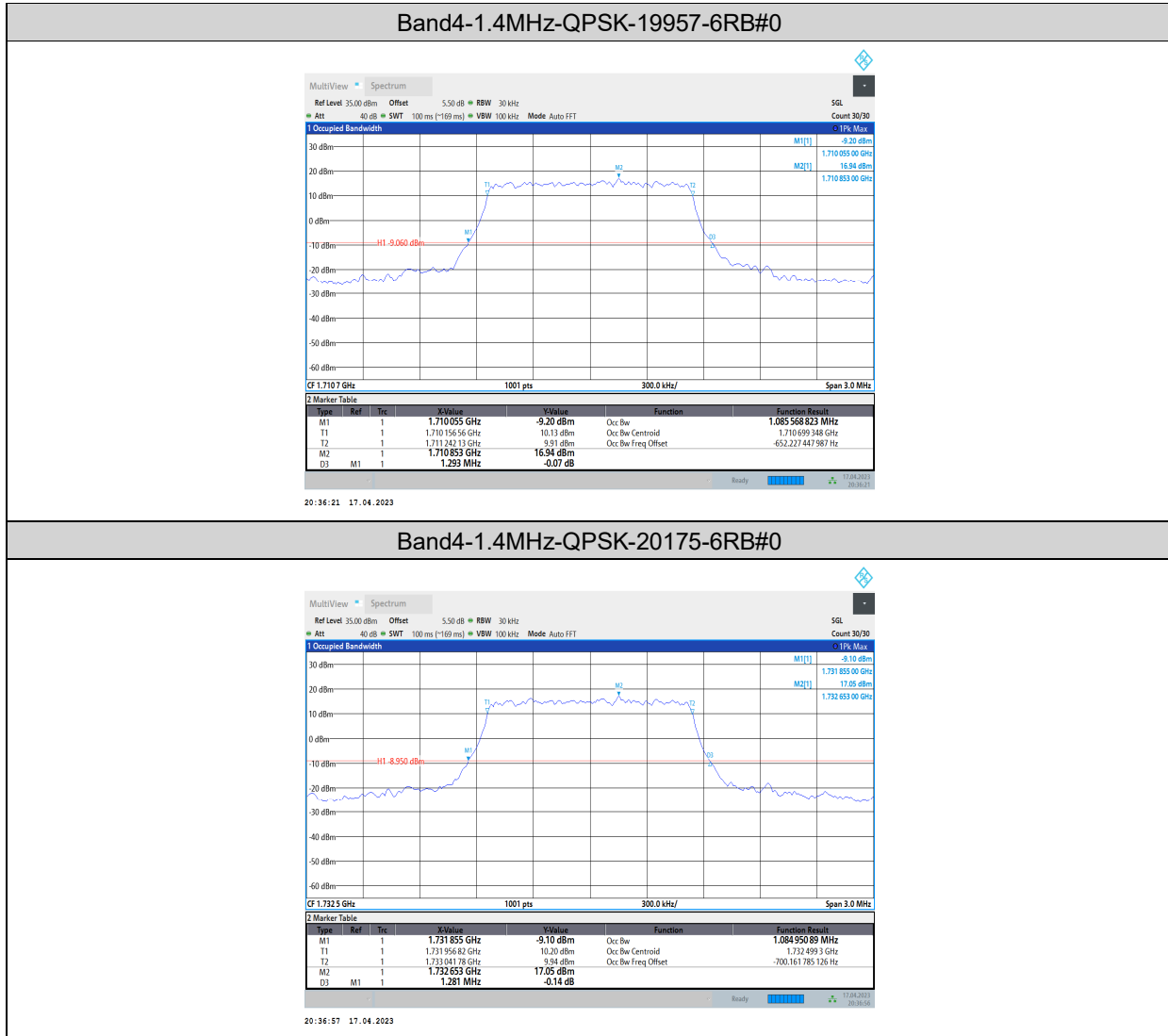
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Band4	20MHz	QPSK	20175	100RB#0	17.939	19.32	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.922	19.32	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.891	19.24	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.918	19.44	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.891	19.28	PASS



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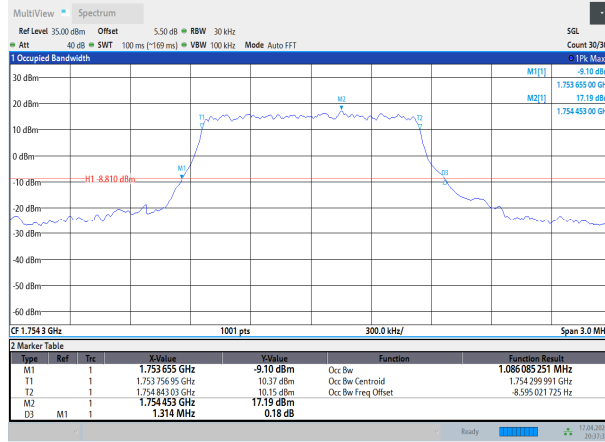


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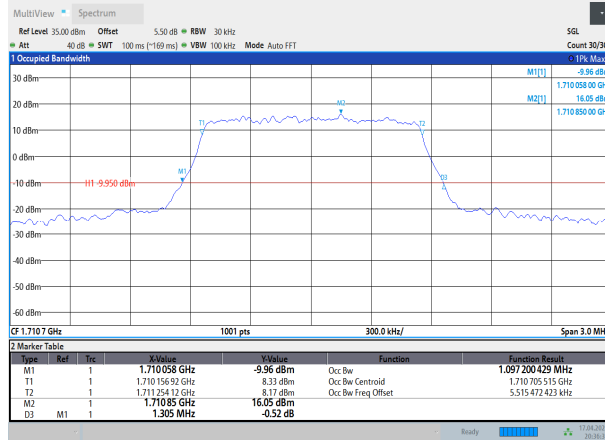
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Band4-1.4MHz-QPSK-20393-6RB#0



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



20:36:39 17.04.2023



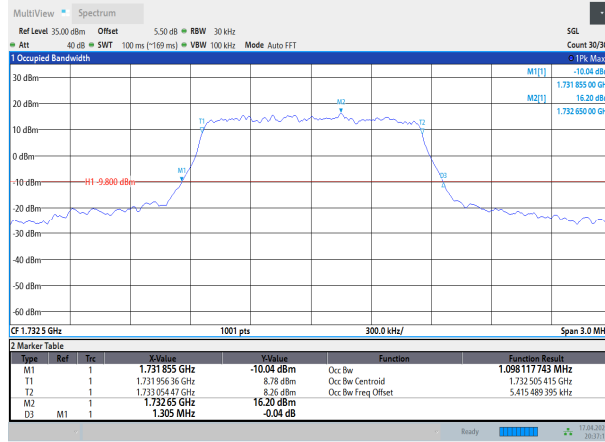
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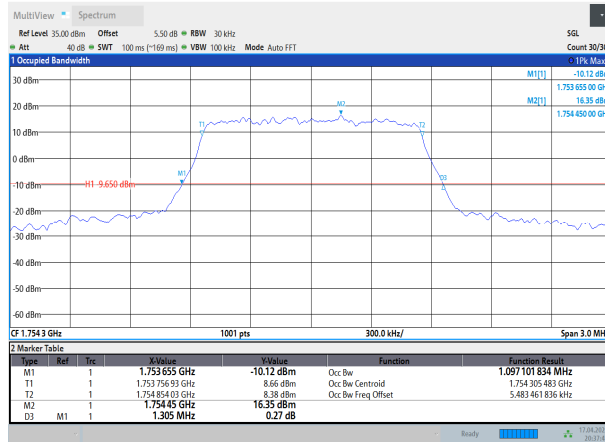


Band4-1.4MHz-16QAM-20175-6RB#0



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



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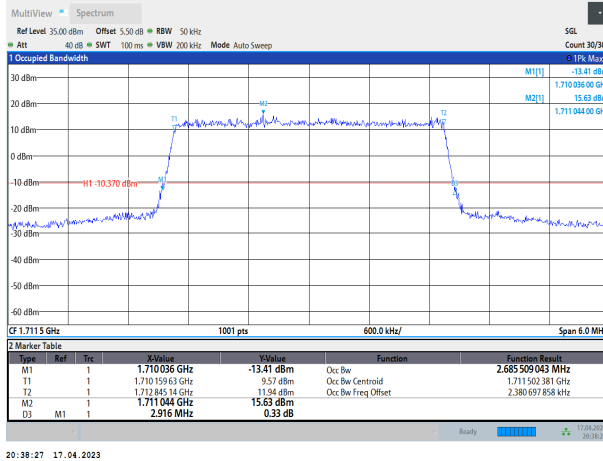


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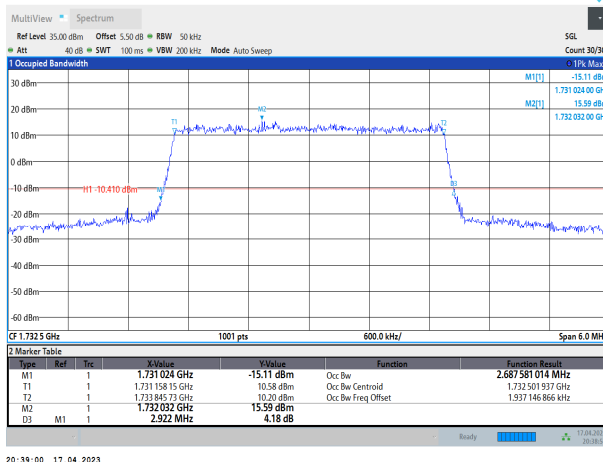
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Band4-3MHz-QPSK-19965-15RB#0



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



20:39:00 17.04.2023

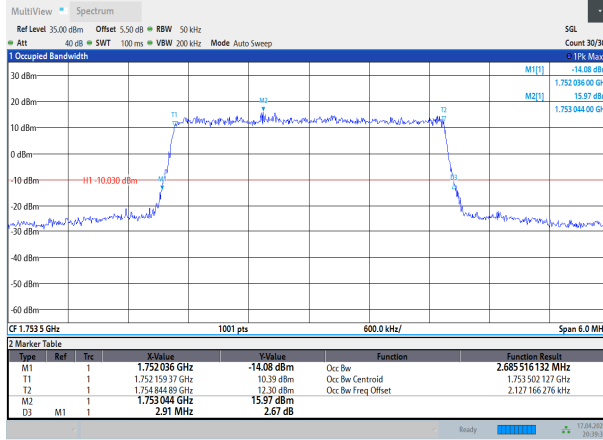


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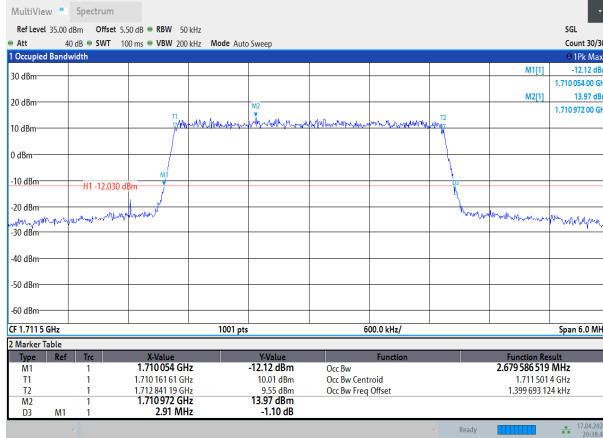
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20:38:43 17.04.2023

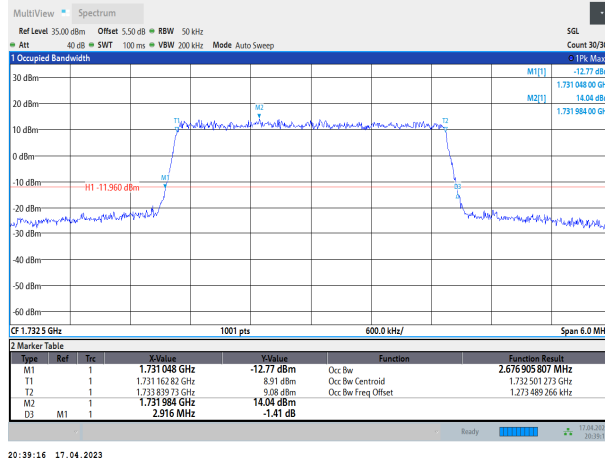


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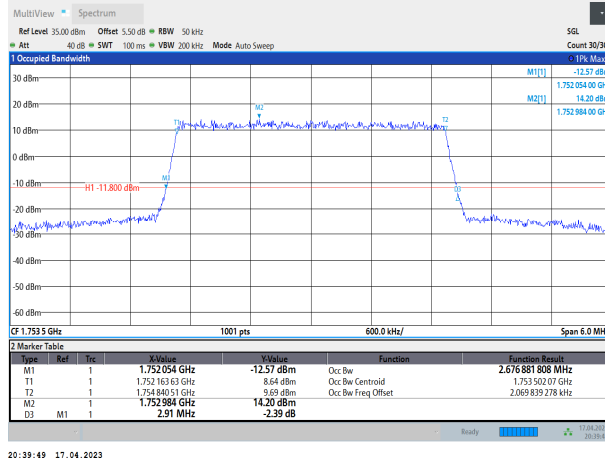
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Band4-3MHz-16QAM-20175-15RB#0



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

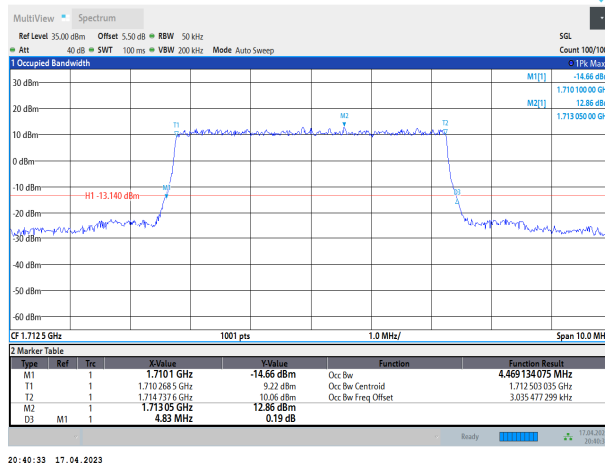


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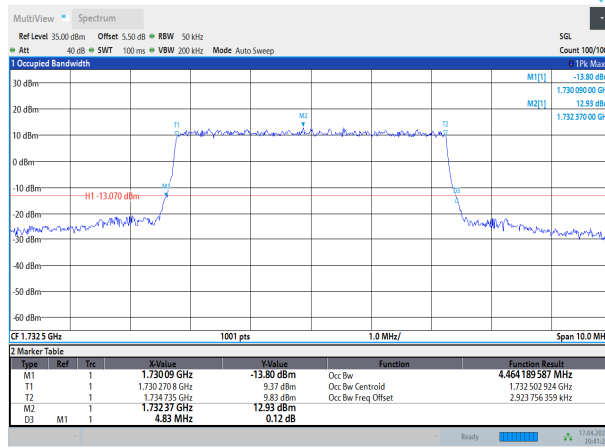
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Band4-5MHz-QPSK-19975-25RB#0



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



20:41:21 17.04.2023

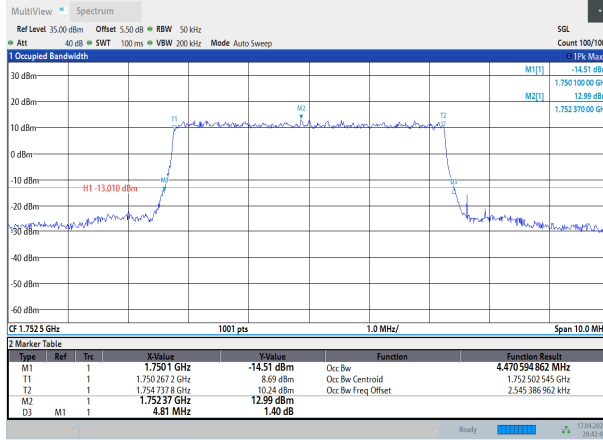


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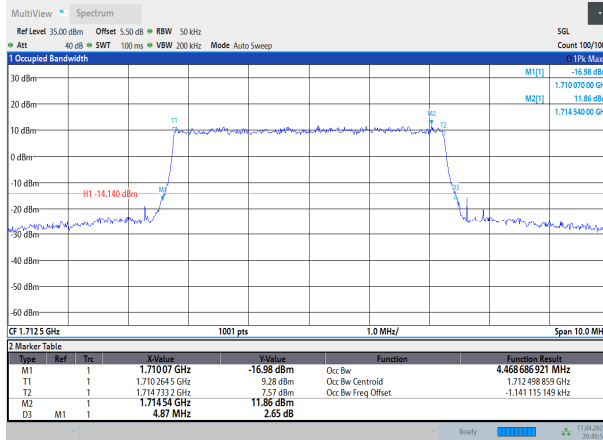
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Band4-5MHz-QPSK-20375-25RB#0



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



20:40:57 17.04.2023

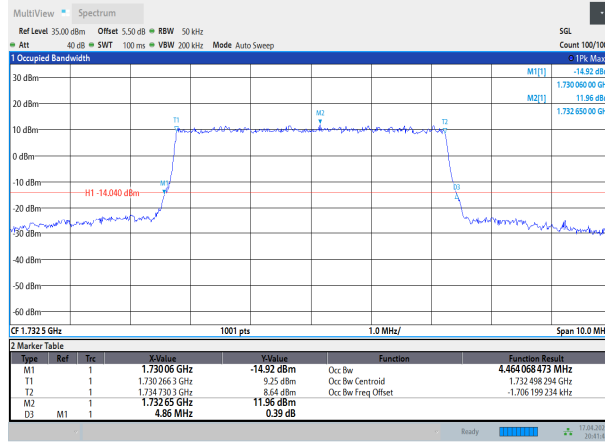


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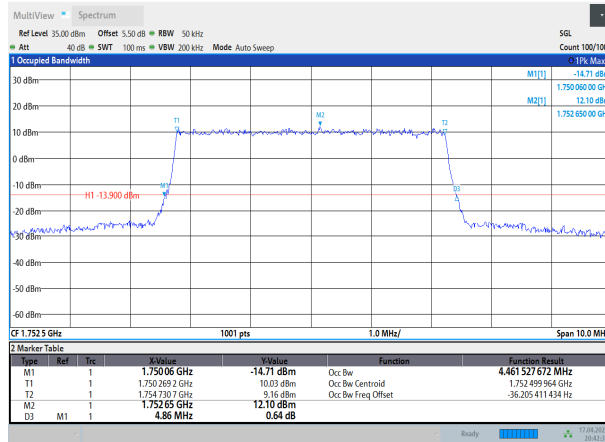
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Band4-5MHz-16QAM-20175-25RB#0



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



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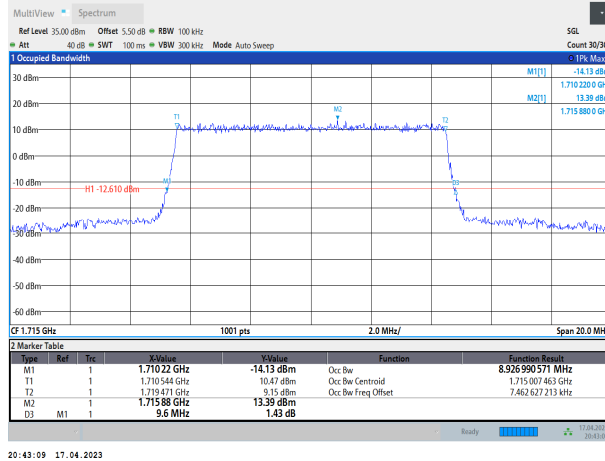


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Band4-10MHz-QPSK-20000-50RB#0



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



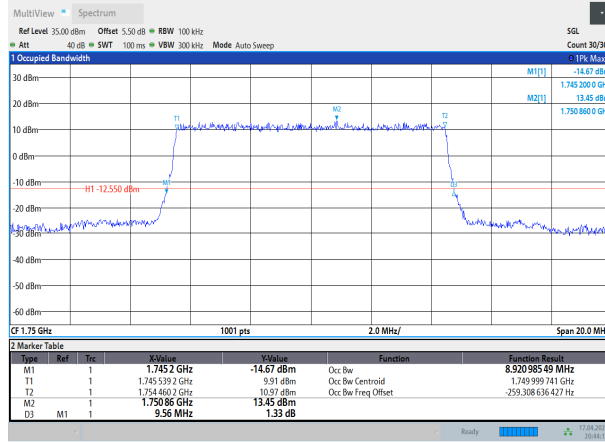
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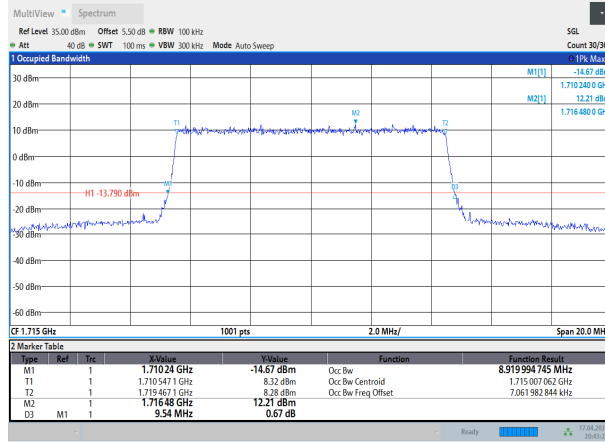
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Band4-10MHz-QPSK-20350-50RB#0



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

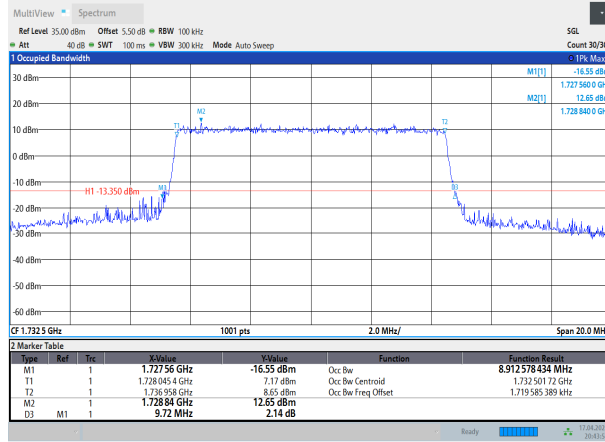


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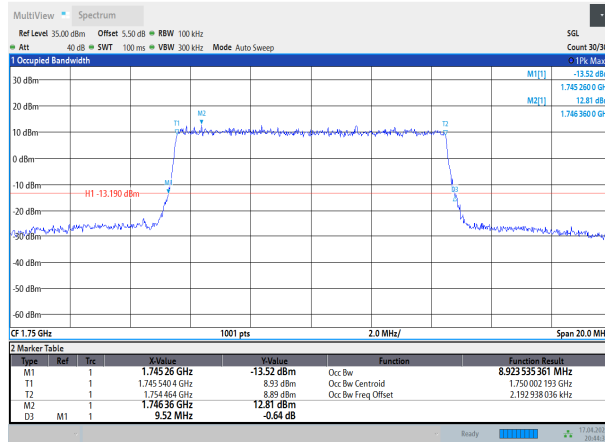
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Band4-10MHz-16QAM-20175-50RB#0



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



20:44:31 17.04.2023

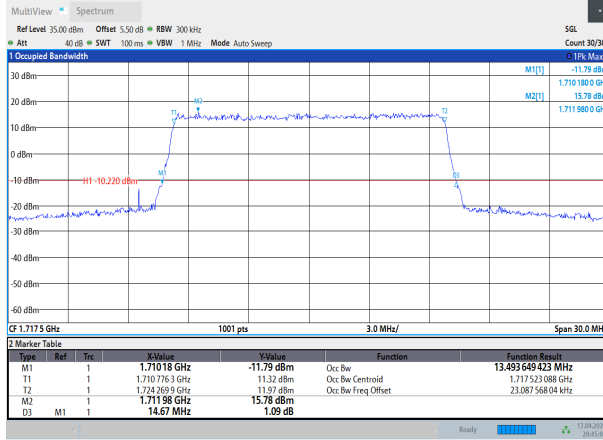


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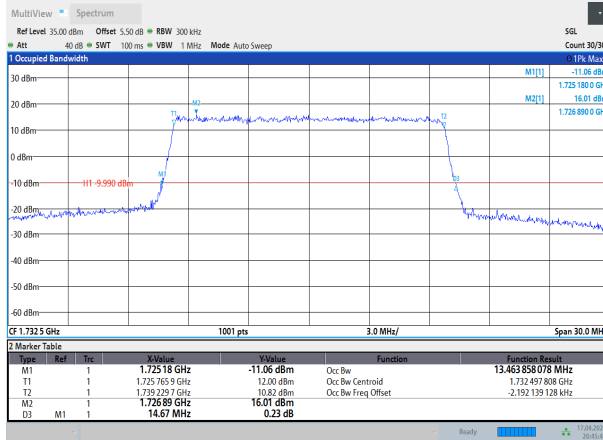
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Band4-15MHz-QPSK-20025-75RB#0



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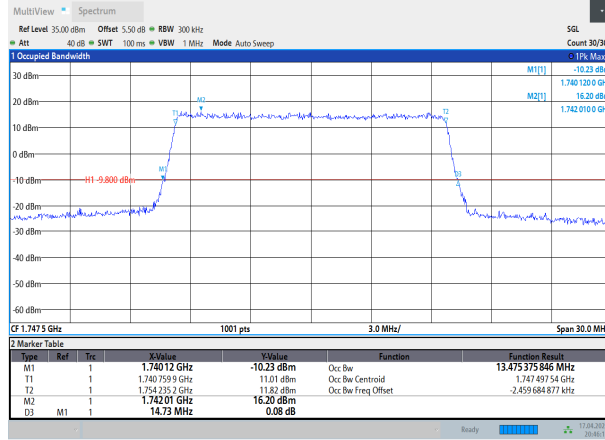


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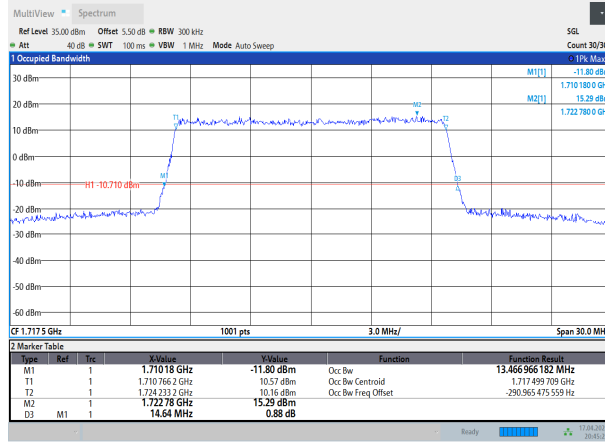
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Band4-15MHz-QPSK-20325-75RB#0



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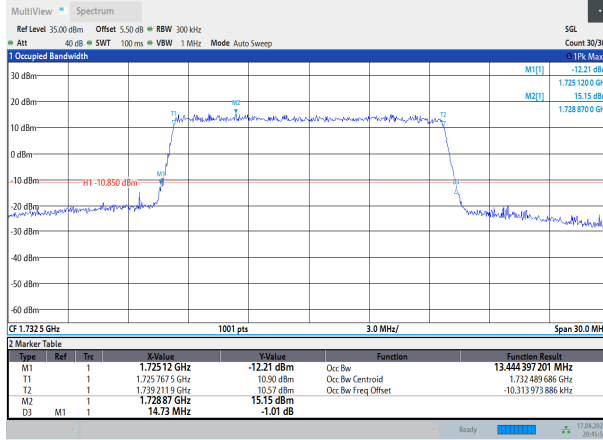


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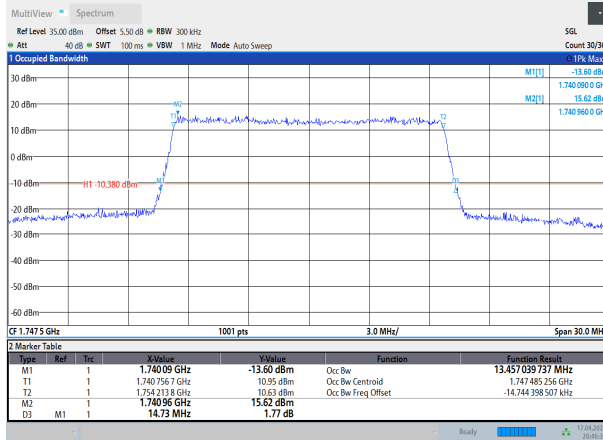
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Band4-15MHz-16QAM-20325-75RB#0



20:46:31 17.04.2023

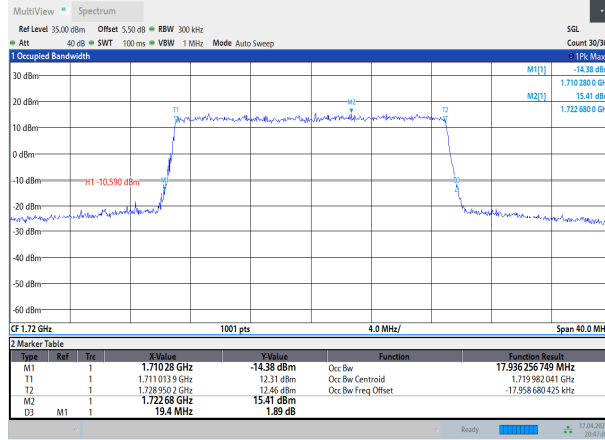


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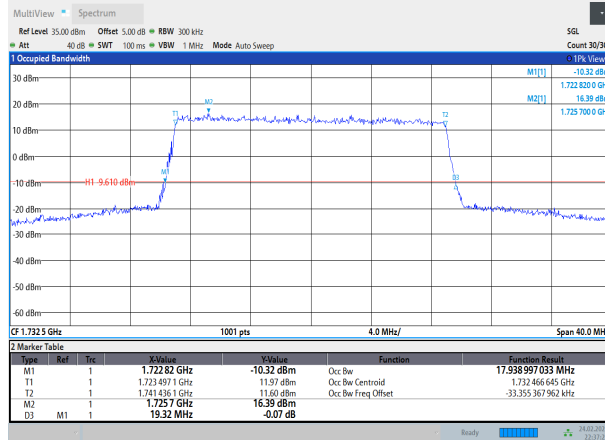
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Band4-20MHz-QPSK-20050-100RB#0



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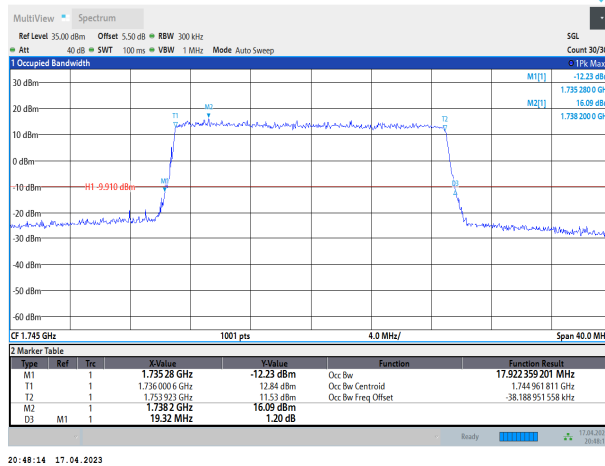


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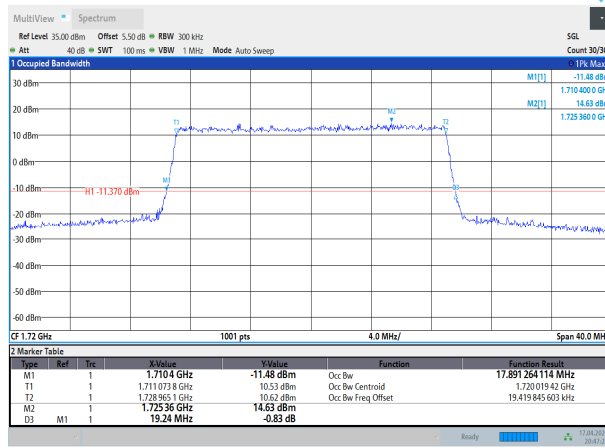
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Band4-20MHz-QPSK-20300-100RB#0



20:48:14 17.04.2023

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



20:47:24 17.04.2023

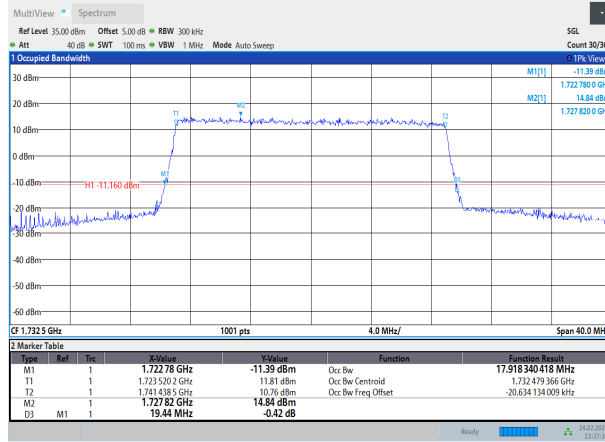


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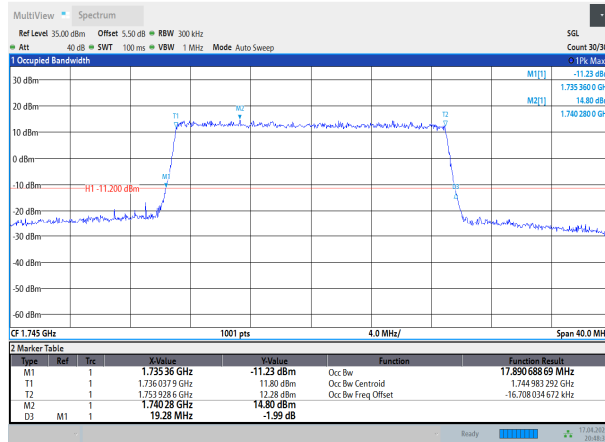
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Band4-20MHz-16QAM-20175-100RB#0



22:37:40 24. 04. 2023

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



20:48:30 17. 04. 2023



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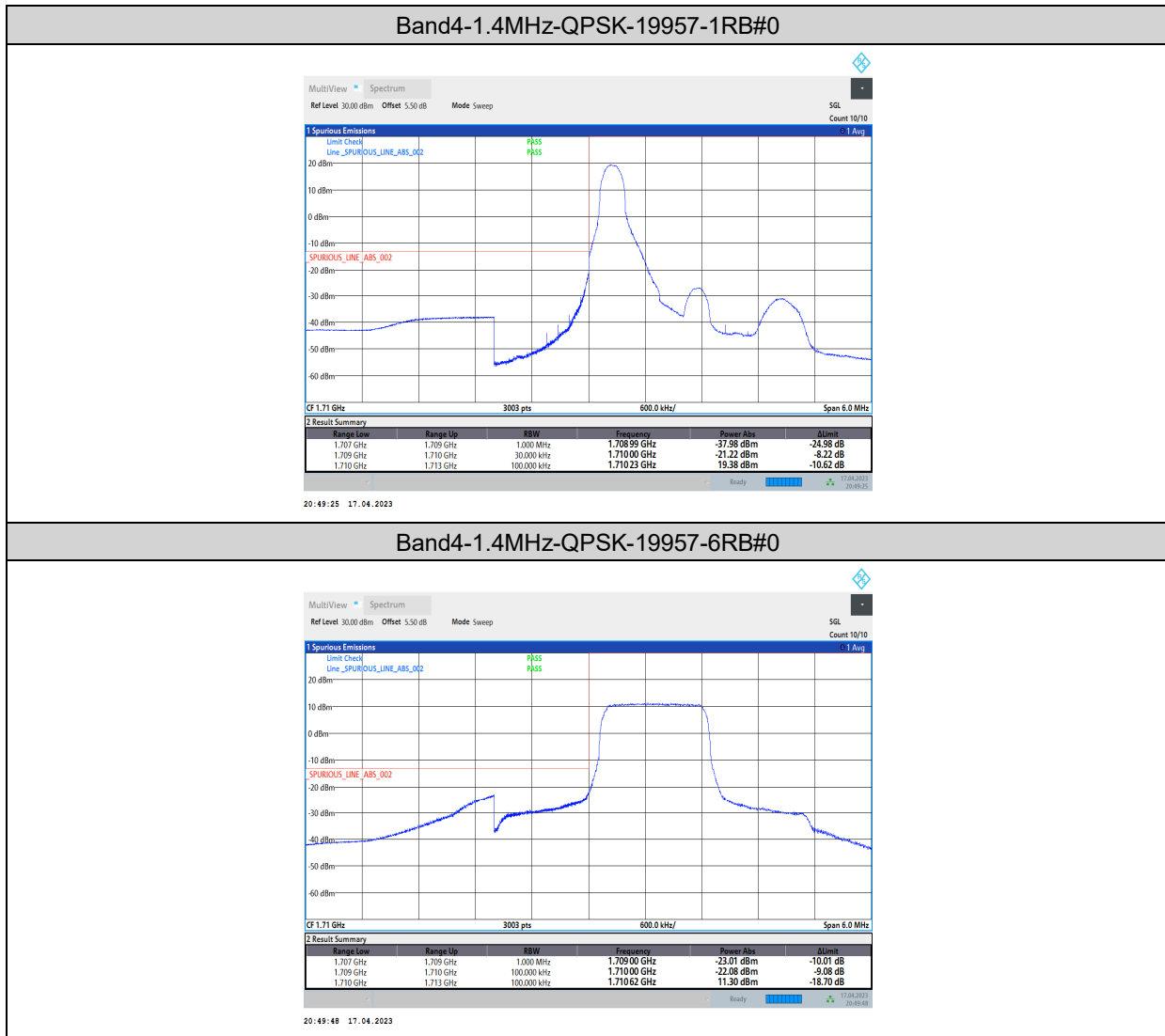
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## Band Edge

## Test Graphs

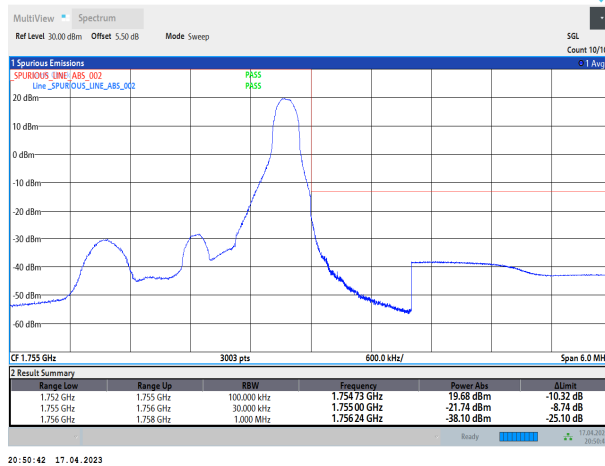


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Band4-1.4MHz-QPSK-20393-1RB#5



20:50:42 17. 04. 2023

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



20:51:05 17. 04. 2023

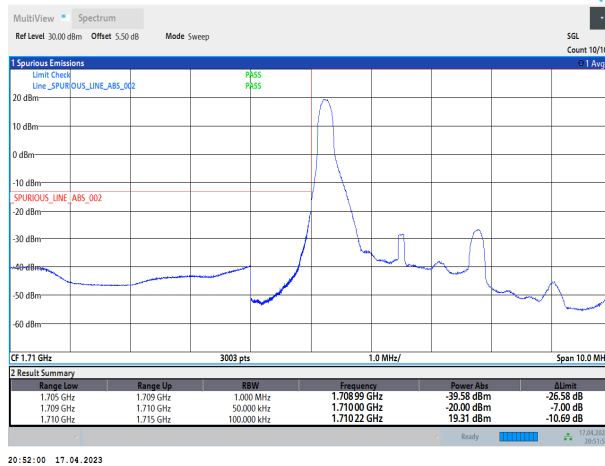


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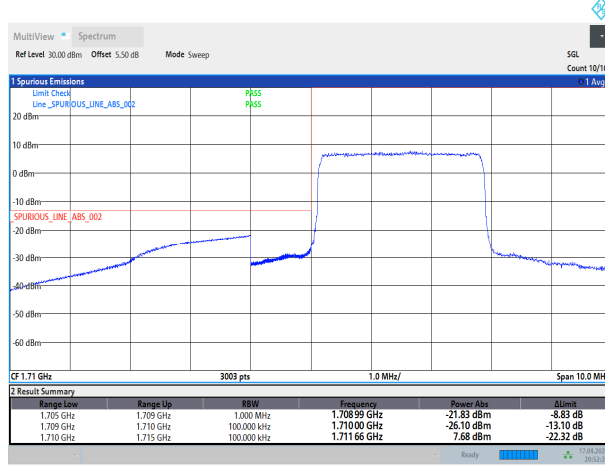
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Band4-3MHz-QPSK-19965-1RB#0



20:52:00 17. 04. 2023

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



20:52:24 17. 04. 2023

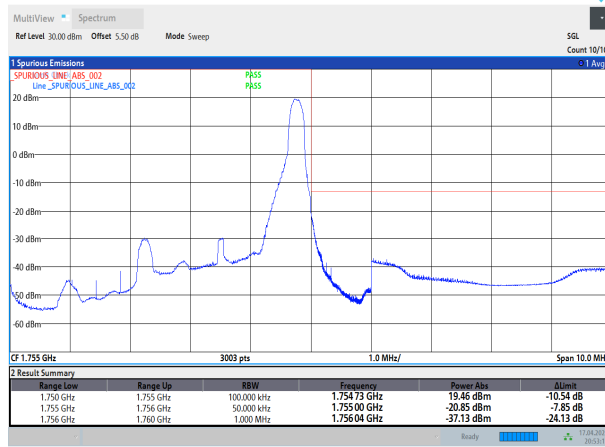


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Band4-3MHz-QPSK-20385-1RB#14



20:59:18 17. 04. 2023

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



20:59:42 17. 04. 2023

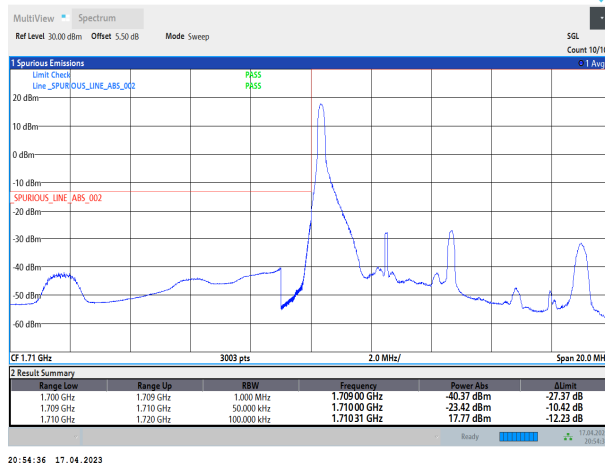


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Band4-5MHz-QPSK-19975-1RB#0



20:54:36 17. 04. 2023

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



20:55:00 17. 04. 2023

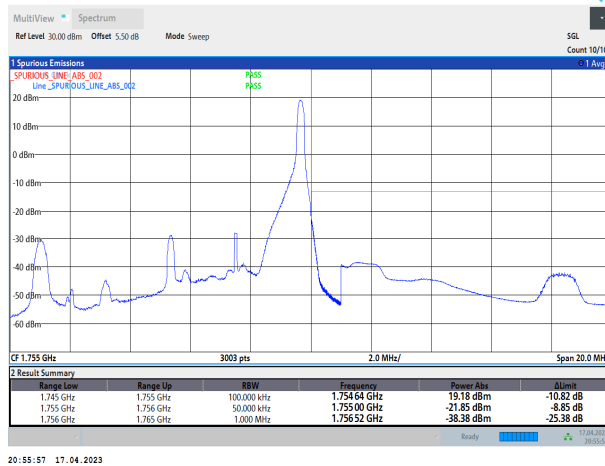


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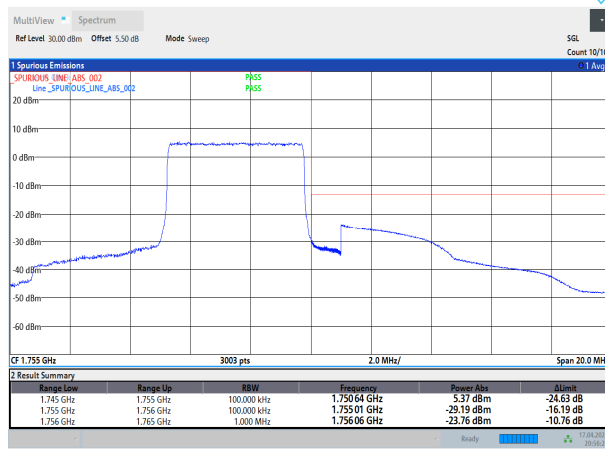
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Band4-5MHz-QPSK-20375-1RB#24



20:55:57 17. 04. 2023

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



20:56:21 17. 04. 2023

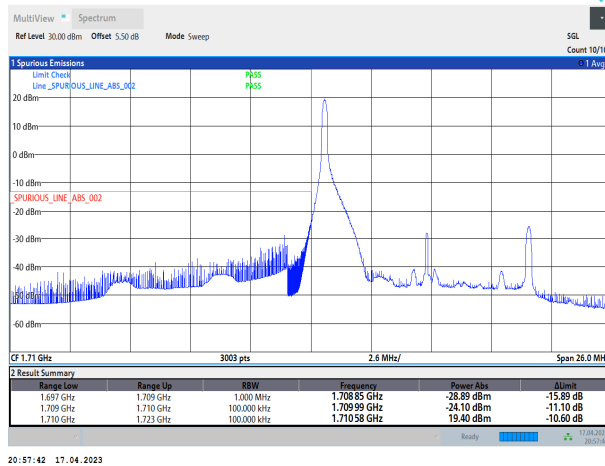


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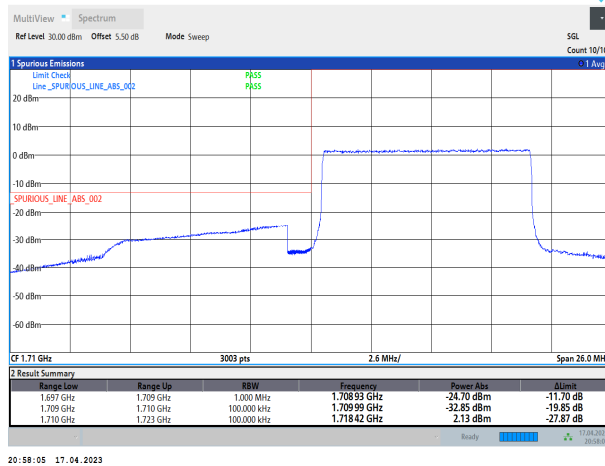
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Band4-10MHz-QPSK-20000-1RB#0



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

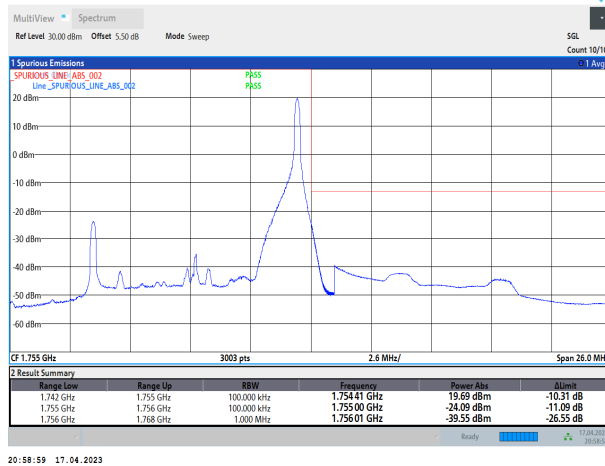


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Band4-10MHz-QPSK-20350-1RB#49



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



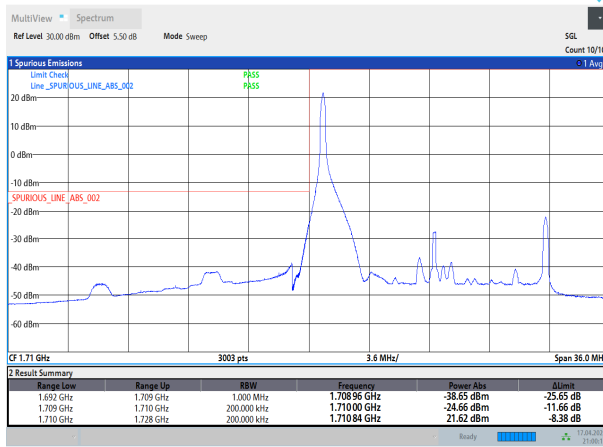
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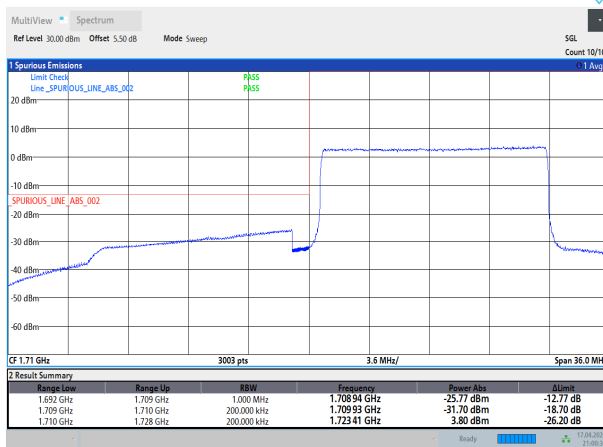


Band4-15MHz-QPSK-20025-1RB#0



21:00:16 17. 04. 2023

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



21:00:39 17. 04. 2023

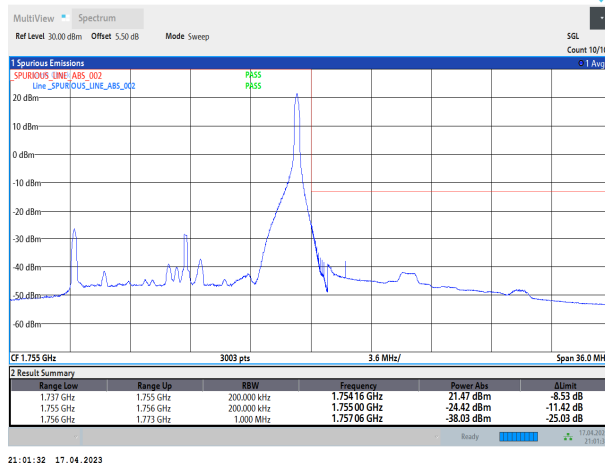


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Band4-15MHz-QPSK-20325-1RB#74



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

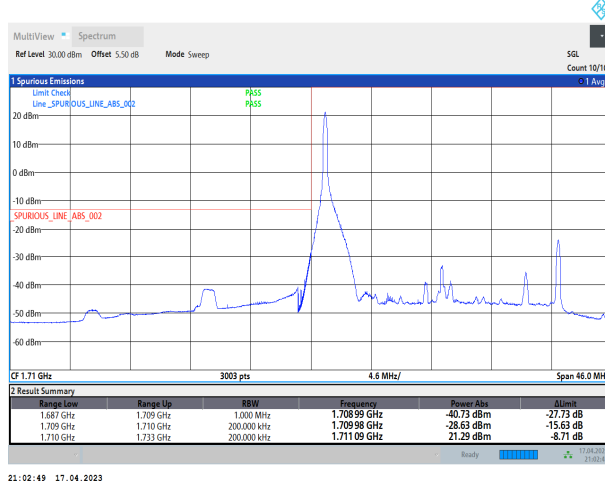


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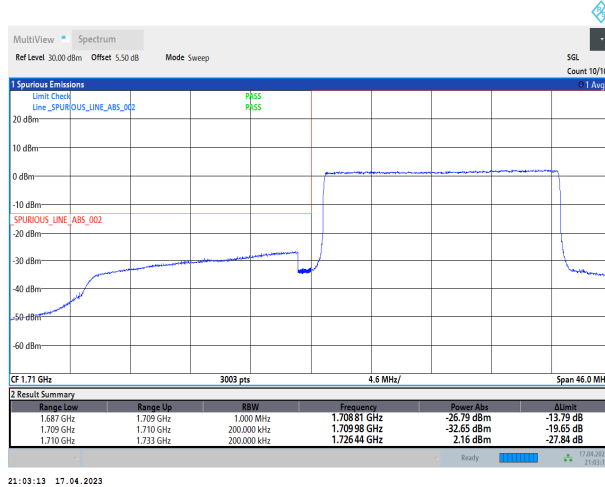
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Band4-20MHz-QPSK-20050-1RB#0



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

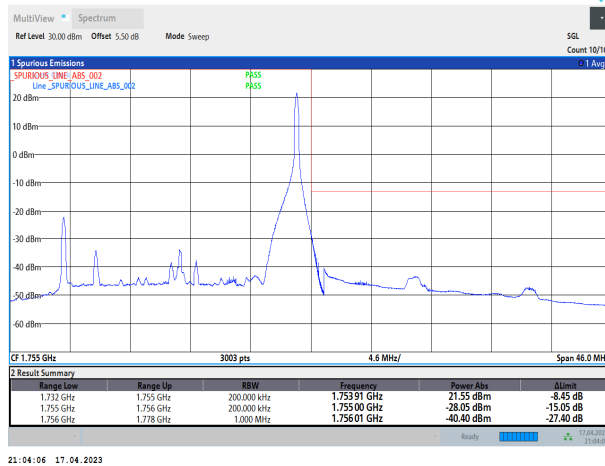


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Band4-20MHz-QPSK-20300-1RB#99



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



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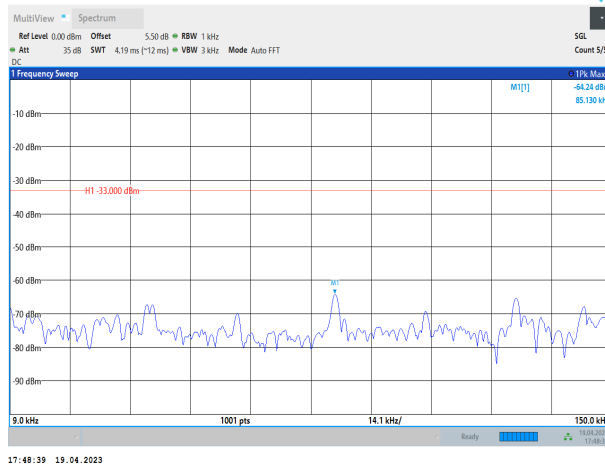
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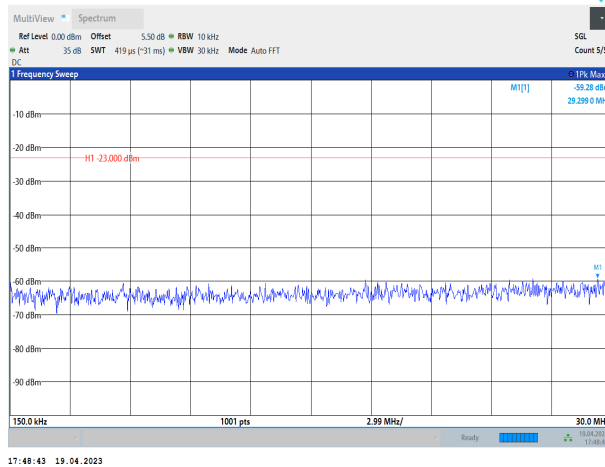
## Conducted Spurious Emission

### Test Graphs

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



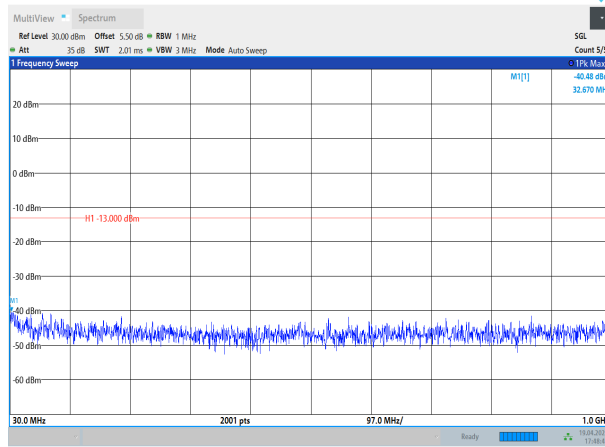
Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



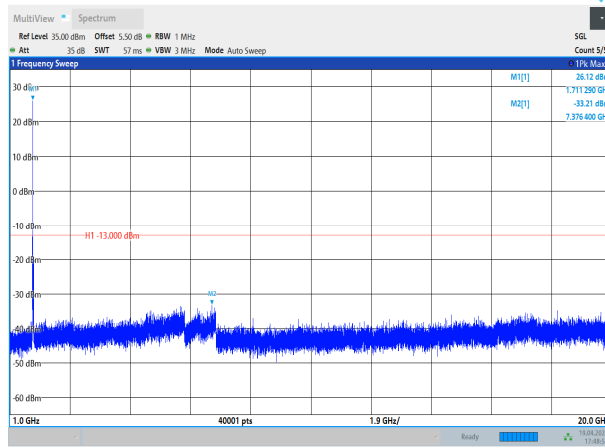
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



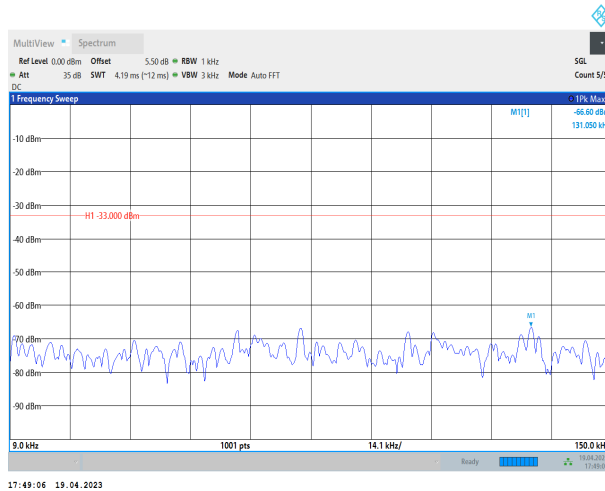
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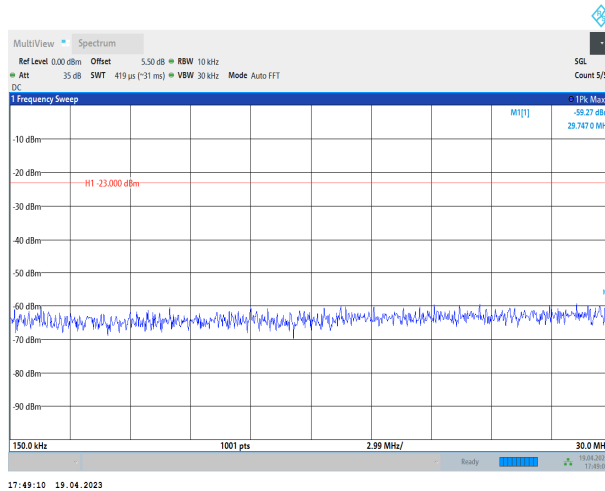
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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

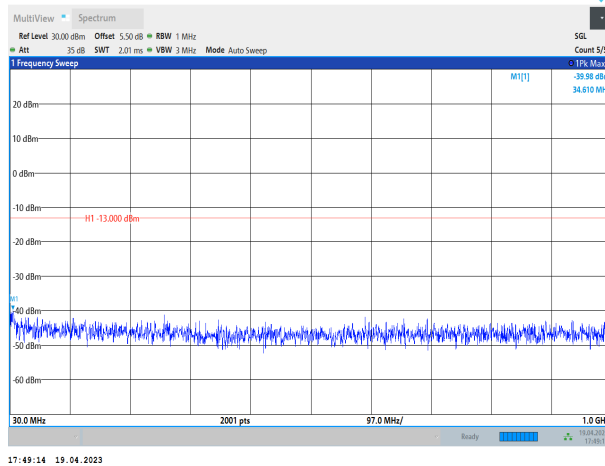


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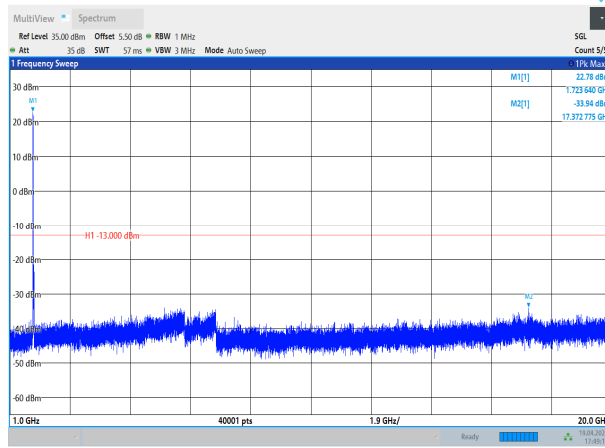
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



17:49:14 19. 04. 2023

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



17:49:19 19. 04. 2023



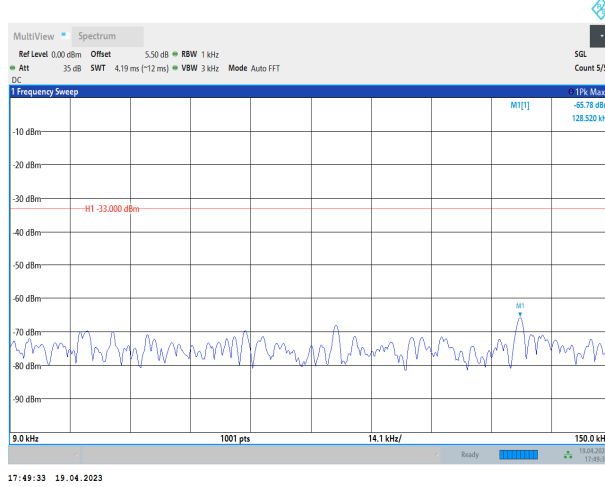
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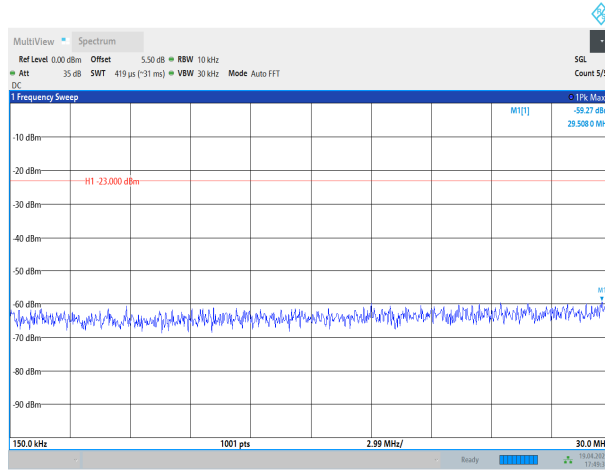


Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



17:49:33 19. 04. 2023

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



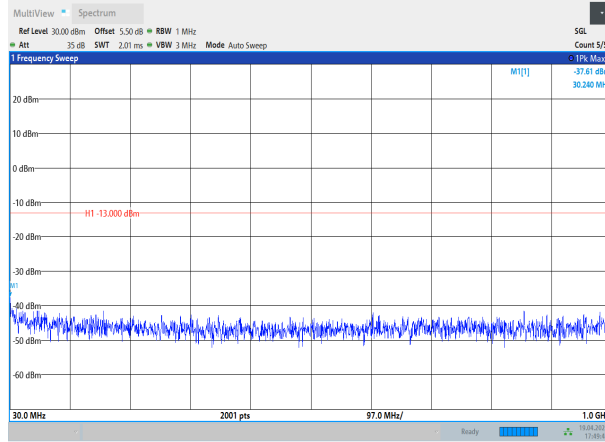
17:49:37 19. 04. 2023



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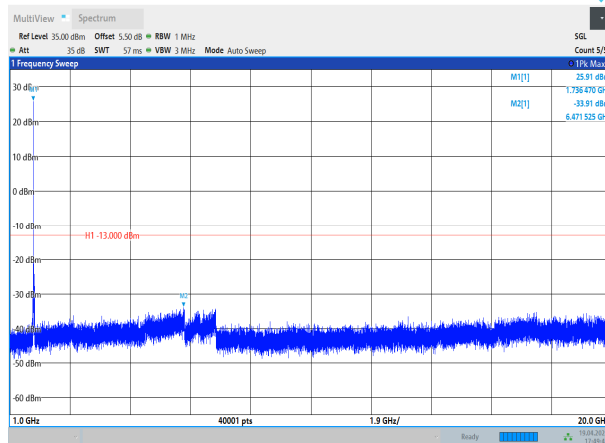
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



17:49:41 19. 04. 2023

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



17:49:46 19. 04. 2023



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### Field Strength of Spurious Radiation

Test Band = LTE\_B4\_20MHz\_TM1

Test Channel = LCH

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1509.8137	23.12	0.14	25.66	-46.34	-13.00	33.34	245	244	Horizontal
2	2999.75	24.69	1.62	29.80	-39.15	-13.00	26.15	251	330	Horizontal
3	3422.2711	58.98	-50.15	29.71	-56.72	-13.00	43.72	156	97	Horizontal
4	5133.1067	60.93	-47.09	33.57	-47.85	-13.00	34.85	263	58	Horizontal
5	9048.3024	48.96	-41.86	38.70	-49.46	-13.00	36.46	325	149	Horizontal
6	11911.1956	46.96	-37.88	39.49	-46.69	-13.00	33.69	214	324	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1618.5773	23.29	0.02	25.84	-46.11	-13.00	33.11	316	92	Vertical
2	3000	24.52	1.63	29.80	-39.31	-13.00	26.31	254	153	Vertical
3	3422.2711	53.50	-50.15	29.71	-62.20	-13.00	49.20	182	281	Vertical
4	5133.1067	56.86	-47.09	33.57	-51.92	-13.00	38.92	263	79	Vertical
5	8854.7927	49.21	-42.49	38.57	-49.97	-13.00	36.97	322	133	Vertical
6	11917.1959	47.68	-37.98	39.48	-46.08	-13.00	33.08	222	45	Vertical



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Test Band = LTE\_B4\_20MHz\_TM1

Test Channel = MCH

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1351.5439	23.20	-0.46	25.90	-46.62	-13.00	33.62	165	99	Horizontal
2	2998.2498	24.59	1.58	29.78	-39.31	-13.00	26.31	254	232	Horizontal
3	3447.0224	57.79	-50.11	29.61	-57.97	-13.00	44.97	210	92	Horizontal
4	5170.6085	55.29	-46.77	33.06	-53.68	-13.00	40.68	226	61	Horizontal
5	9014.5507	48.10	-41.71	38.77	-50.10	-13.00	37.10	322	183	Horizontal
6	11933.6967	47.72	-38.24	39.47	-46.31	-13.00	33.31	254	360	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1529.3162	23.31	0.15	25.78	-46.02	-13.00	33.02	263	146	Vertical
2	2999.4999	24.63	1.62	29.79	-39.22	-13.00	26.22	298	85	Vertical
3	3913.5457	51.95	-49.05	30.68	-61.68	-13.00	48.68	263	277	Vertical
4	5170.6085	56.45	-46.77	33.06	-52.52	-13.00	39.52	254	262	Vertical
5	7355.4678	50.02	-43.95	36.89	-52.30	-13.00	39.30	366	30	Vertical
6	11932.9466	47.28	-38.22	39.47	-46.73	-13.00	33.73	293	134	Vertical



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Test Band = LTE\_B4\_20MHz\_TM1

Test Channel = HCH

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1512.314	23.40	0.07	25.67	-46.12	-13.00	33.12	263	136	Horizontal
2	2996.4996	24.63	1.53	29.76	-39.34	-13.00	26.34	254	273	Horizontal
3	3472.5236	55.44	-49.63	29.69	-59.76	-13.00	46.76	372	97	Horizontal
4	5208.1104	54.93	-46.42	32.48	-54.27	-13.00	41.27	256	72	Horizontal
5	7913.4957	48.98	-43.60	37.43	-52.45	-13.00	39.45	325	349	Horizontal
6	11910.4455	46.91	-37.87	39.49	-46.73	-13.00	33.73	246	252	Horizontal

Final Data List										
NO	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height[ cm]	Angle [°]	Polarity
1	1468.8086	23.37	-0.18	25.66	-46.41	-13.00	33.41	356	334	Vertical
2	2977.7472	25.34	1.39	29.58	-38.95	-13.00	25.95	263	211	Vertical
3	3631.5316	52.34	-49.32	30.33	-61.91	-13.00	48.91	254	54	Vertical
4	5208.1104	53.87	-46.42	32.48	-55.33	-13.00	42.33	255	242	Vertical
5	7474.7237	49.42	-43.36	36.65	-52.55	-13.00	39.55	196	217	Vertical
6	11912.6956	47.30	-37.91	39.49	-46.38	-13.00	33.38	263	59	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) - Pre-amplifier (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	-4.80	-0.002771	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-10.80	-0.006234	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-3.20	-0.001847	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	0.80	0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-6.70	-0.003867	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-2.80	-0.001616	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-8.30	-0.004791	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-6.30	-0.003636	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-5.00	-0.002886	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-4.30	-0.002482	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-7.20	-0.004156	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-6.70	-0.003867	PASS

---End of Attachment---



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