

Report No.: SEWM2307000235RG01

Rev.: 01

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# 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	22.8	24.34	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.93	24.47	30.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.06	24.6	30.00	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.01	23.55	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.07	24.61	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.06	24.6	30.00	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23	24.54	30.00	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.97	23.51	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.85	24.39	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.96	24.5	30.00	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.92	24.46	30.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.09	23.63	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.24	23.78	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.23	23.77	30.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.33	23.87	30.00	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.19	22.73	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.25	23.79	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.36	23.9	30.00	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	22.32	23.86	30.00	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	21.21	22.75	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.36	23.9	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.32	23.86	30.00	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.35	23.89	30.00	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.21	22.75	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.74	24.28	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.02	24.56	30.00	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.76	24.3	30.00	PASS



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Band4	3MHz	QPSK	19965	15RB#0	22.06	23.6	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.91	24.45	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.16	24.7	30.00	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.94	24.48	30.00	PASS
Band4	3MHz	QPSK	20175	15RB#0	22.03	23.57	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.86	24.4	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.97	24.51	30.00	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.81	24.35	30.00	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.06	23.6	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.09	23.63	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.33	23.87	30.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.18	23.72	30.00	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.98	22.52	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.31	23.85	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#8	22.45	23.99	30.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	22.22	23.76	30.00	PASS
Band4	3MHz	16QAM	20175	15RB#0	21.18	22.72	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.31	23.85	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.46	24	30.00	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.16	23.7	30.00	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.1	22.64	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.18	24.72	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.13	24.67	30.00	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.13	24.67	30.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.25	23.79	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.17	24.71	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.19	24.73	30.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.11	24.65	30.00	PASS
Band4	5MHz	QPSK	20175	25RB#0	22.08	23.62	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.08	24.62	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.16	24.7	30.00	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.16	24.7	30.00	PASS



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Band4	5MHz	QPSK	20375	25RB#0	22.18	23.72	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	22.35	23.89	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.49	24.03	30.00	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.46	24	30.00	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.39	22.93	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#0	22.42	23.96	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#12	22.49	24.03	30.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	22.6	24.14	30.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	21.26	22.8	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.54	24.08	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.49	24.03	30.00	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.4	23.94	30.00	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.36	22.9	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.13	24.67	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.98	24.52	30.00	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.19	24.73	30.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.2	23.74	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.19	24.73	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.15	24.69	30.00	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.27	24.81	30.00	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.27	23.81	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.33	24.87	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.26	24.8	30.00	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.3	24.84	30.00	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.35	23.89	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.39	23.93	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.44	23.98	30.00	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.54	24.08	30.00	PASS
Band4	10MHz	16QAM	20000	27RB#0	21.34	22.88	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.38	23.92	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.54	24.08	30.00	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.56	24.1	30.00	PASS



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Band4	10MHz	16QAM	20175	27RB#0	21.42	22.96	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.62	24.16	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.52	24.06	30.00	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.67	24.21	30.00	PASS
Band4	10MHz	16QAM	20350	27RB#0	21.4	22.94	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.14	24.68	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.26	24.8	30.00	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.37	24.91	30.00	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.28	23.82	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.22	24.76	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.17	24.71	30.00	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.31	24.85	30.00	PASS
Band4	15MHz	QPSK	20175	75RB#0	22.22	23.76	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.56	25.1	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.4	24.94	30.00	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.37	24.91	30.00	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.31	23.85	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.3	23.84	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.45	23.99	30.00	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.56	24.1	30.00	PASS
Band4	15MHz	16QAM	20025	27RB#0	21.42	22.96	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.35	23.89	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.33	23.87	30.00	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.38	23.92	30.00	PASS
Band4	15MHz	16QAM	20175	27RB#0	21.35	22.89	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.25	23.79	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.41	23.95	30.00	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.49	24.03	30.00	PASS
Band4	15MHz	16QAM	20325	27RB#0	21.33	22.87	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.06	24.6	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.25	24.79	30.00	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.47	25.01	30.00	PASS



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Band4	20MHz	QPSK	20050	100RB#0	22.3	23.84	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.41	24.95	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.2	24.74	30.00	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.37	24.91	30.00	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.23	23.77	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.44	24.98	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.21	24.75	30.00	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.4	24.94	30.00	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.15	23.69	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.28	23.82	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.58	24.12	30.00	PASS
Band4	20MHz	16QAM	20050	1RB#99	22.66	24.2	30.00	PASS
Band4	20MHz	16QAM	20050	27RB#0	21.42	22.96	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#0	22.36	23.9	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.38	23.92	30.00	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.33	23.87	30.00	PASS
Band4	20MHz	16QAM	20175	27RB#0	21.38	22.92	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.19	23.73	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.41	23.95	30.00	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.55	24.09	30.00	PASS
Band4	20MHz	16QAM	20300	27RB#0	21.29	22.83	30.00	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

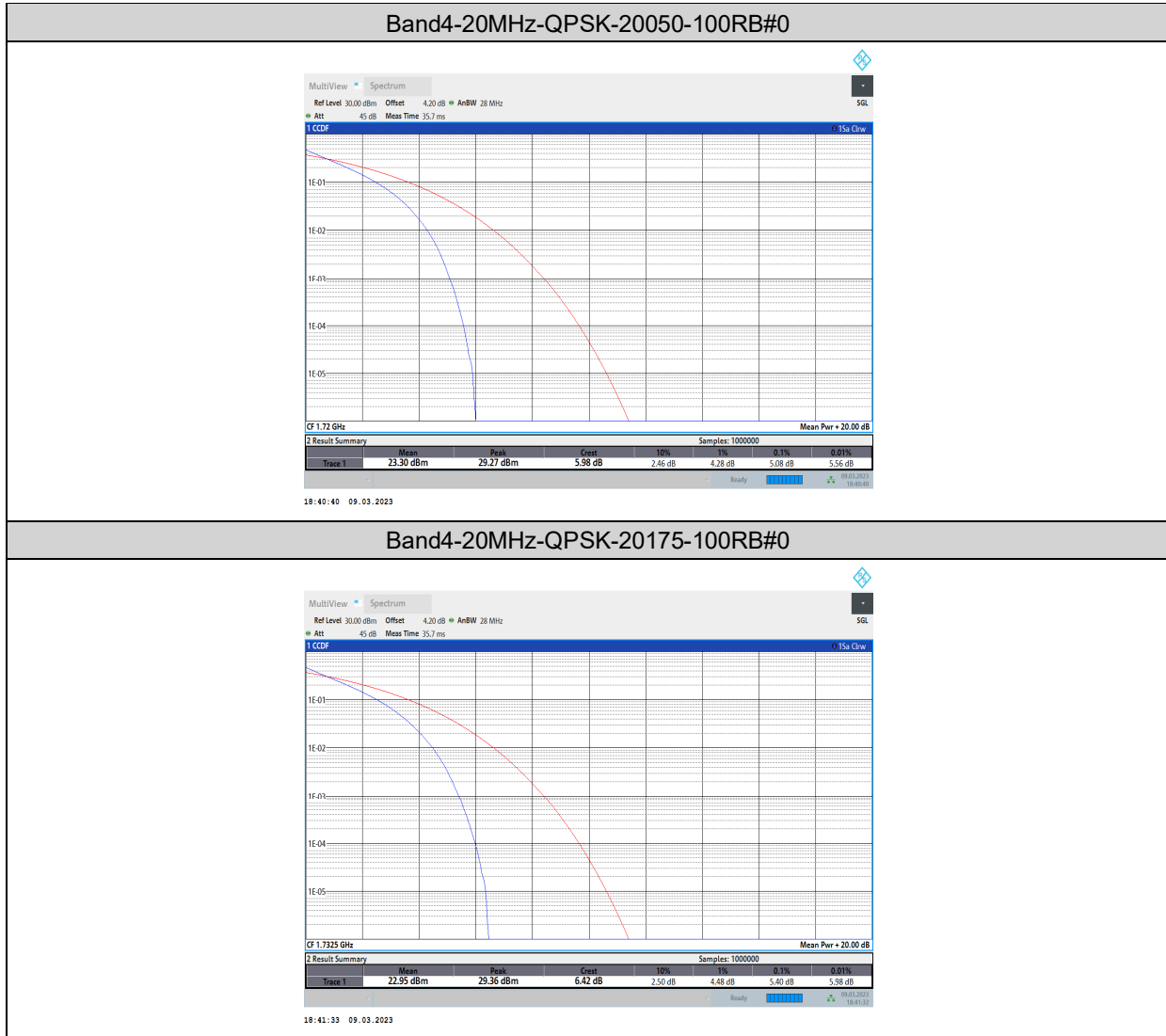
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.08	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.40	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.50	13	PASS



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Test Graphs

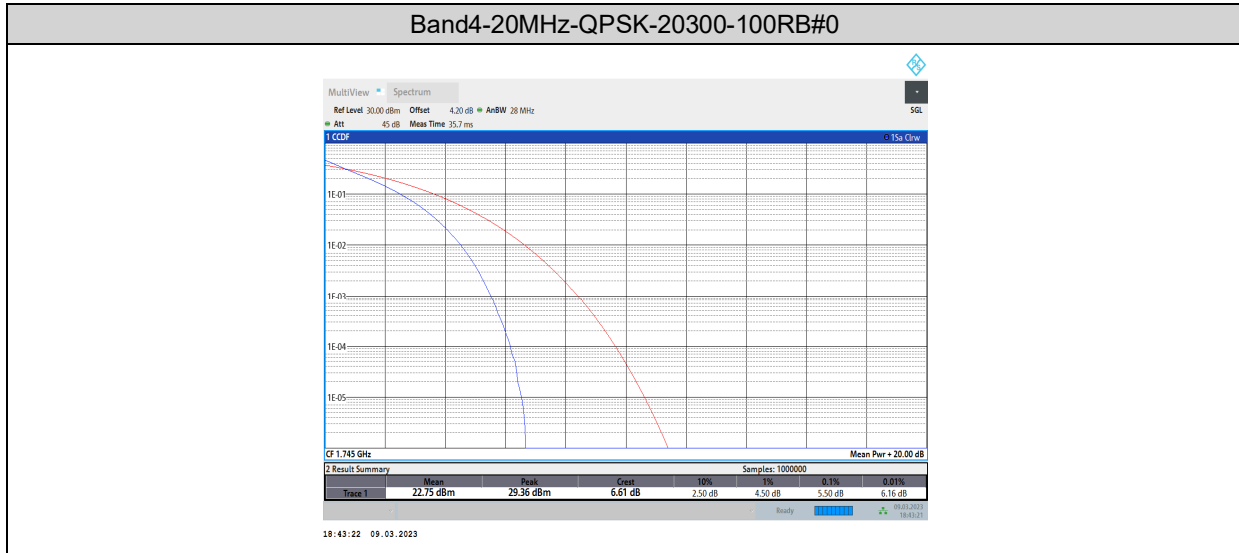


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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	5MHz	QPSK	20175	25RB#0	PASS	PASS
Band4	5MHz	16QAM	20175	25RB#0	PASS	PASS



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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	1.093	1.29	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.087	1.29	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.28	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.096	1.31	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.697	3.01	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.697	3.01	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	3.01	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.689	3.01	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.69	3.02	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.69	3.02	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.47	4.92	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.47	4.93	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.94	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.468	4.98	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.465	4.97	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.468	4.99	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.928	9.88	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.933	9.92	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.939	9.96	PASS
Band4	10MHz	16QAM	20000	27RB#0	4.879	5.86	PASS
Band4	10MHz	16QAM	20175	27RB#0	4.882	5.90	PASS
Band4	10MHz	16QAM	20350	27RB#0	4.881	5.82	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.502	15.36	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.514	15.30	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.517	15.30	PASS
Band4	15MHz	16QAM	20025	27RB#0	5.202	6.78	PASS
Band4	15MHz	16QAM	20175	27RB#0	5.206	6.9	PASS
Band4	15MHz	16QAM	20325	27RB#0	5.231	6.81	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.947	20.08	PASS



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Report No.: SEWM2307000235RG01

Rev.: 01

Page: 13 of 53

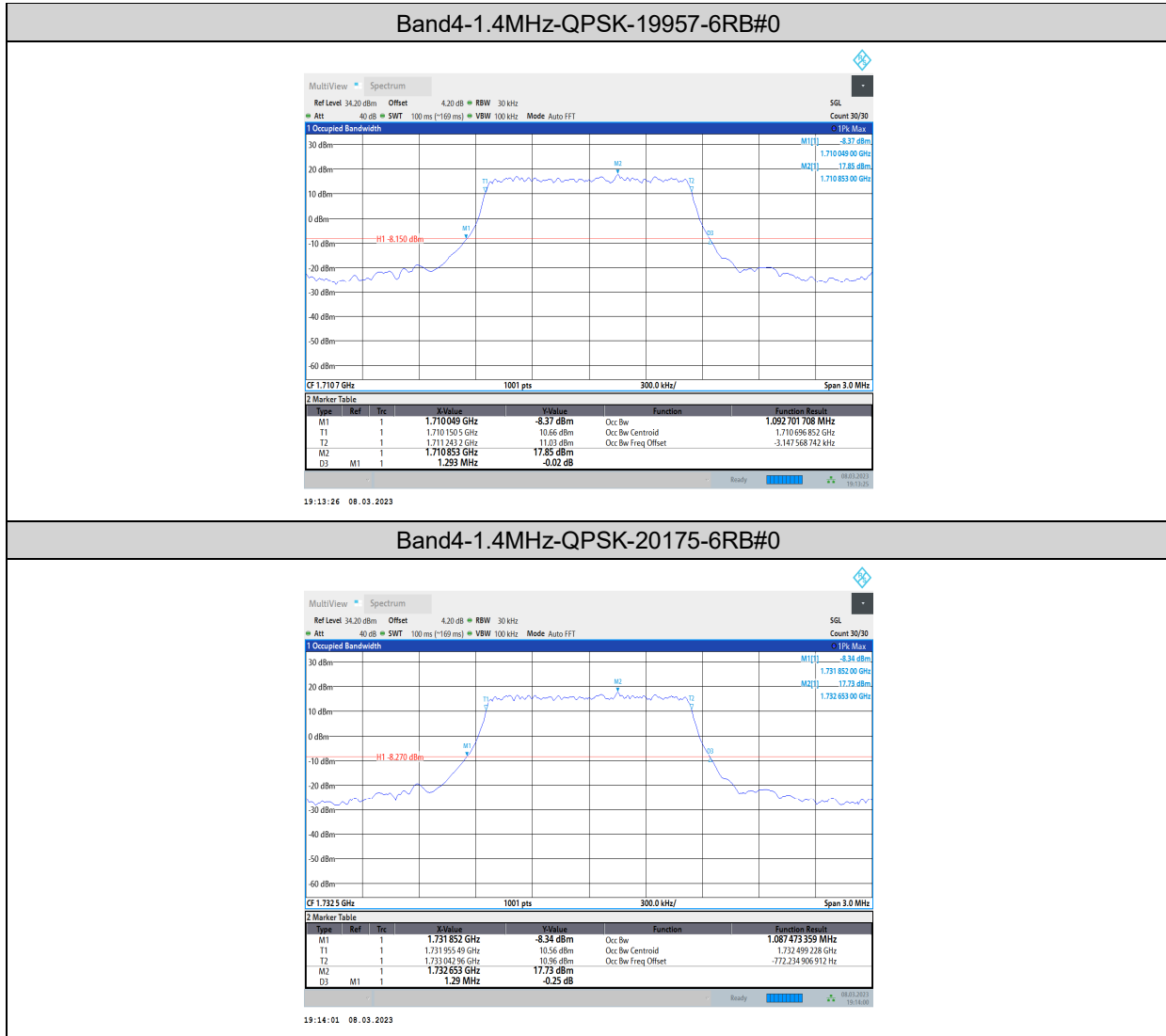
Band4	20MHz	QPSK	20175	100RB#0	17.95	20.12	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.957	20.24	PASS
Band4	20MHz	16QAM	20050	27RB#0	5.244	7.24	PASS
Band4	20MHz	16QAM	20175	27RB#0	5.235	6.96	PASS
Band4	20MHz	16QAM	20300	27RB#0	5.245	7.00	PASS



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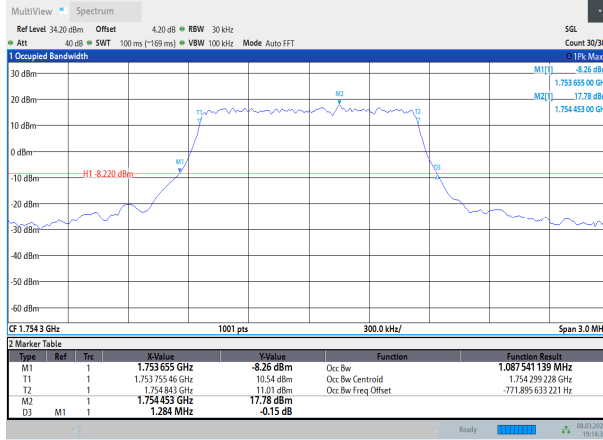


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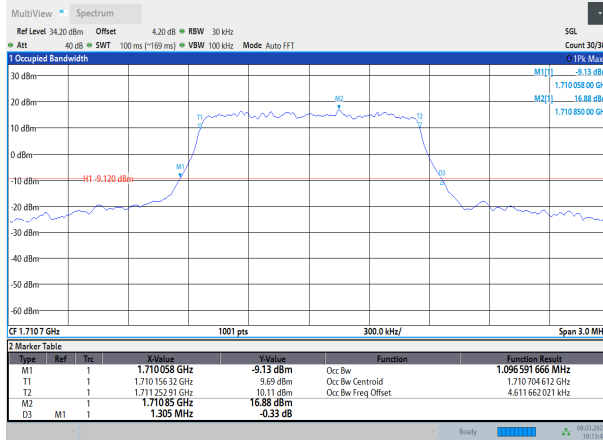
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Band4-1.4MHz-QPSK-20393-6RB#0



19:14:35 08.03.2023

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19:13:43 08.03.2023

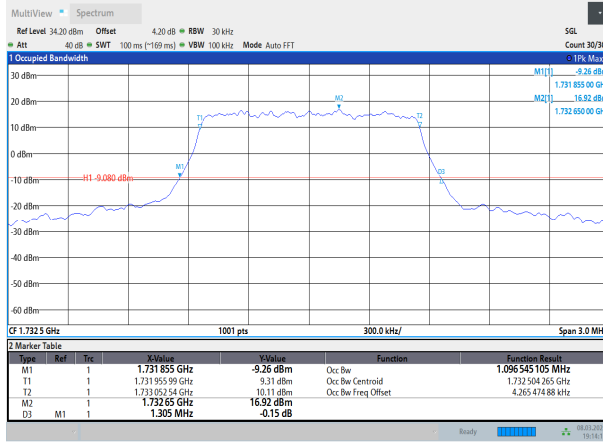


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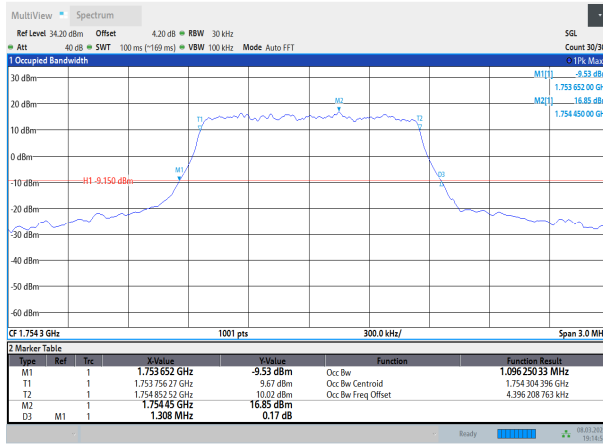
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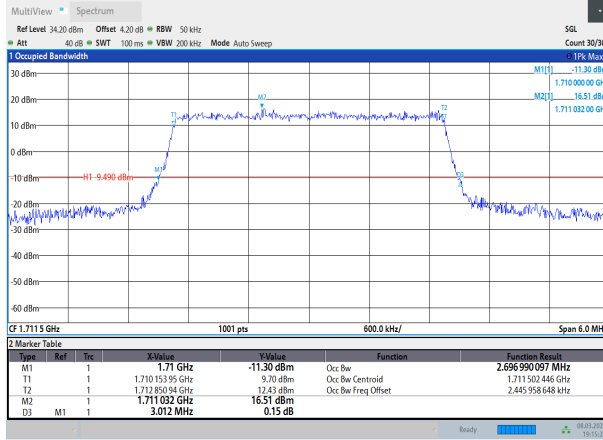
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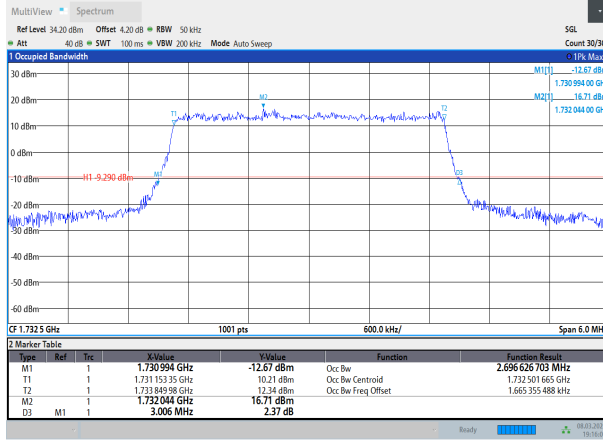


Band4-3MHz-QPSK-19965-15RB#0



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



19:16:02 08.03.2023

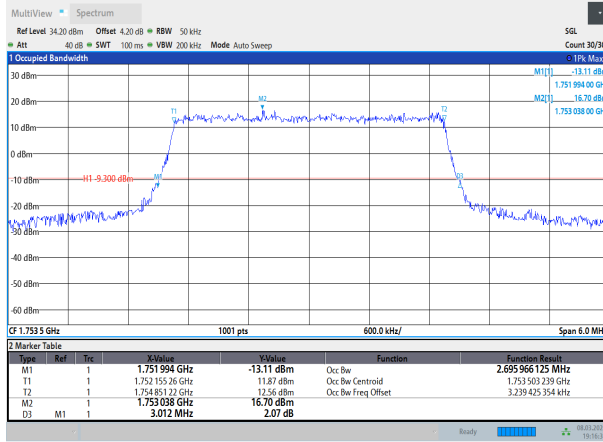


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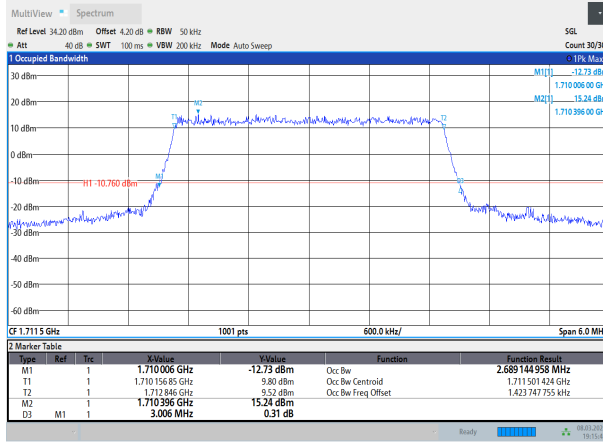
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Band4-3MHz-QPSK-20385-15RB#0



19:16:34 08.03.2023

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



19:15:46 08.03.2023

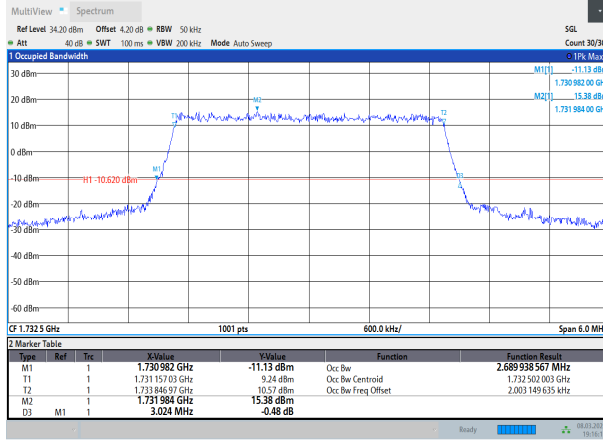


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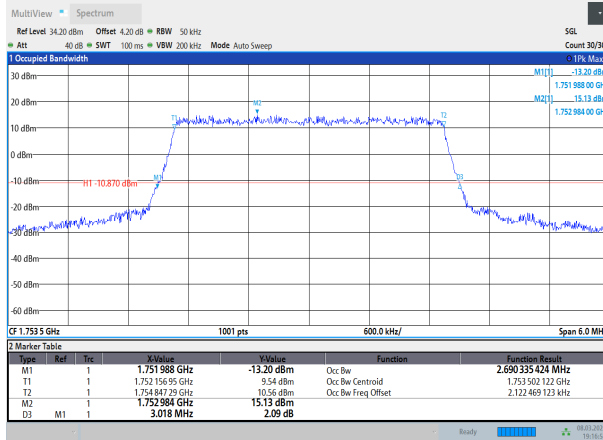
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Band4-3MHz-16QAM-20175-15RB#0



19:16:18 08.03.2023

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



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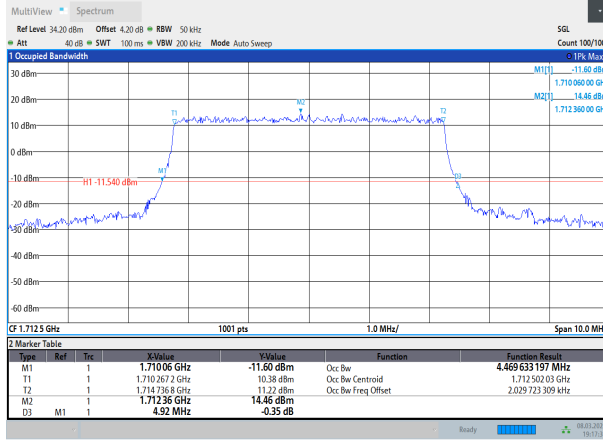


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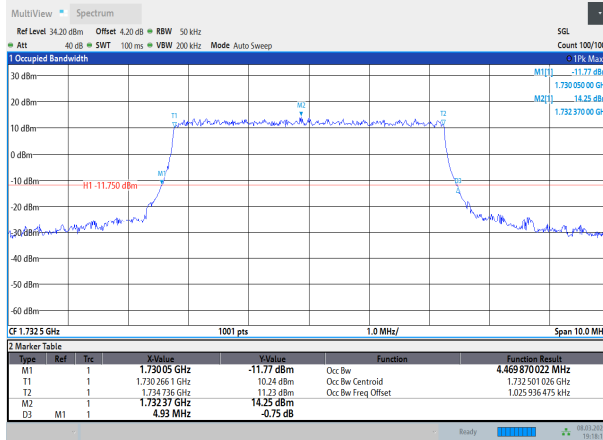
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Band4-5MHz-QPSK-19975-25RB#0



19:17:33 08.03.2023

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



19:18:19 08.03.2023

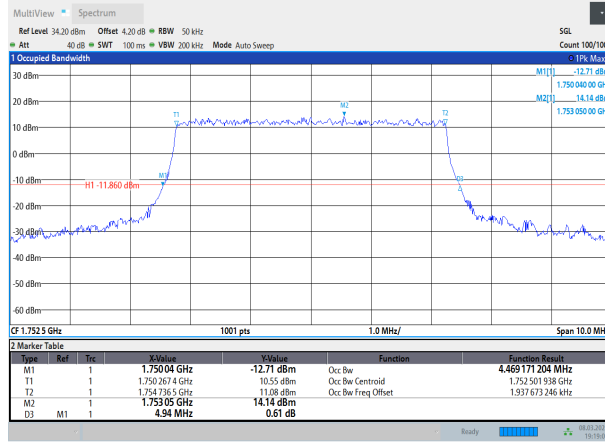


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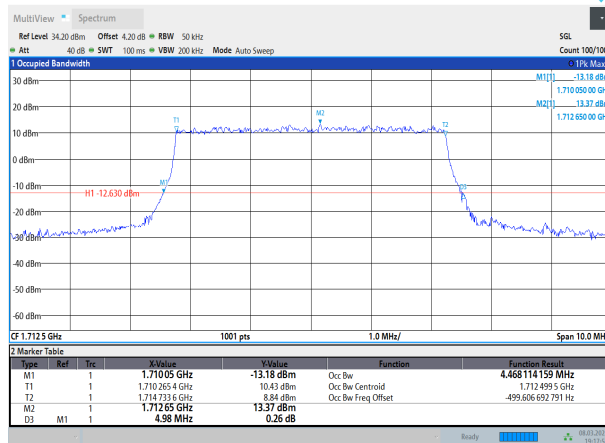
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Band4-5MHz-QPSK-20375-25RB#0



19:19:06 08.03.2023

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



19:17:56 08.03.2023

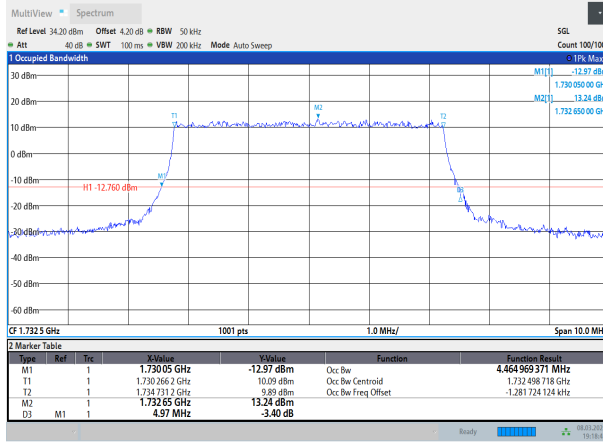


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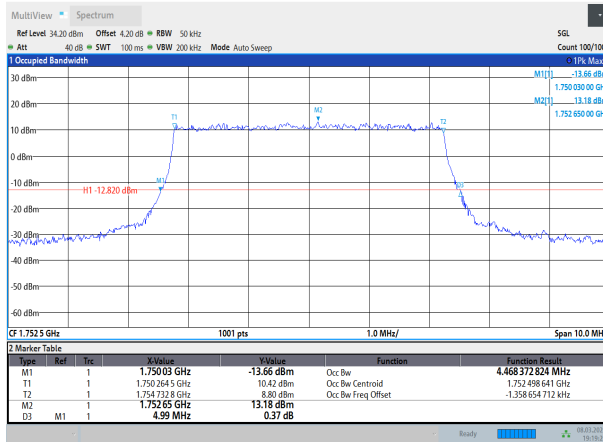
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Band4-5MHz-16QAM-20175-25RB#0



19:18:42 08.03.2023

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



19:19:29 08.03.2023

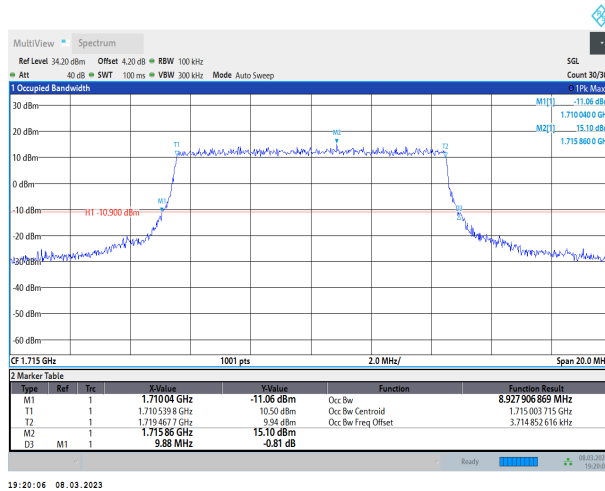


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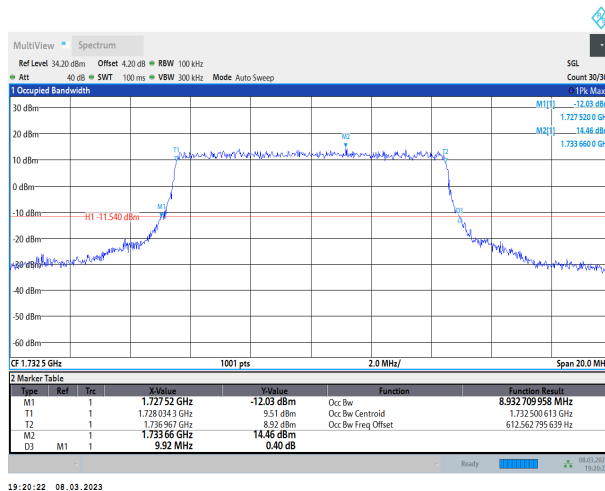
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Band4-10MHz-QPSK-20000-50RB#0



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

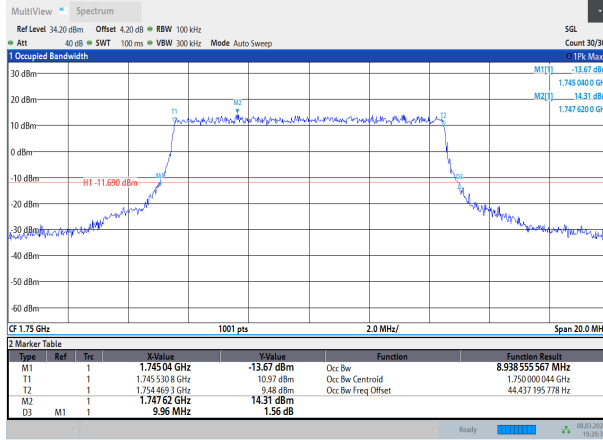


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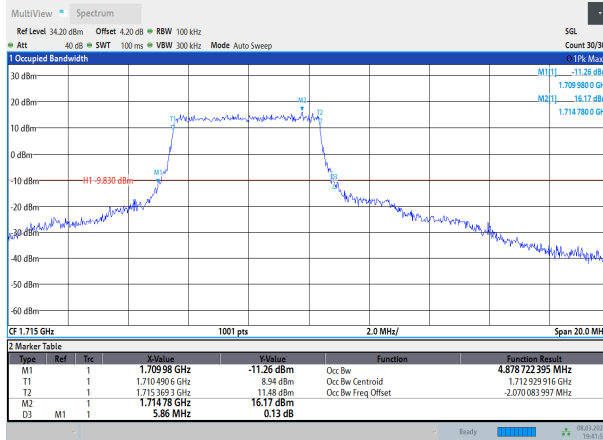
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Band4-10MHz-QPSK-20350-50RB#0



19:20:38 08.03.2023

Band4-10MHz-16QAM-20000-27RB#0



19:41:59 08.03.2023



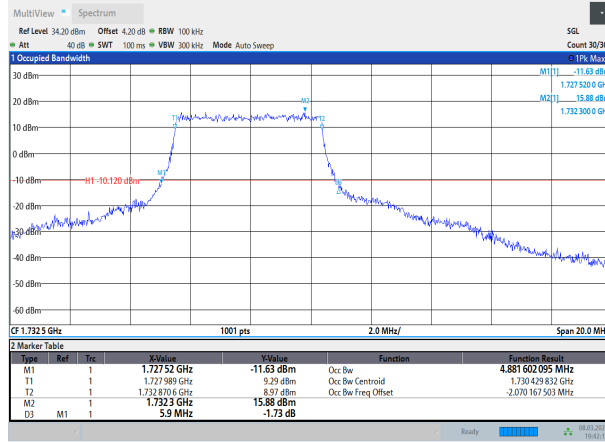
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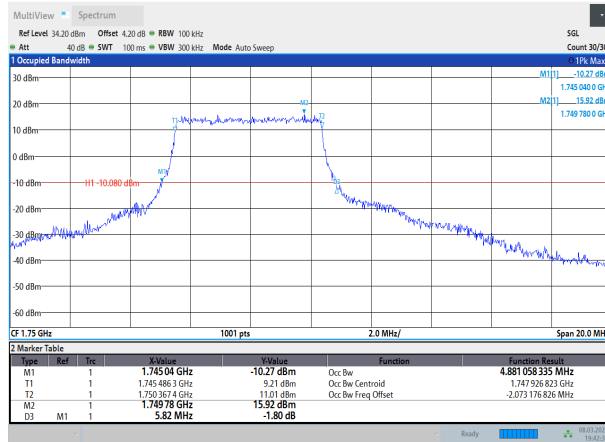


Band4-10MHz-16QAM-20175-27RB#0



19:42:15 08.03.2023

Band4-10MHz-16QAM-20350-27RB#0



19:42:32 08.03.2023

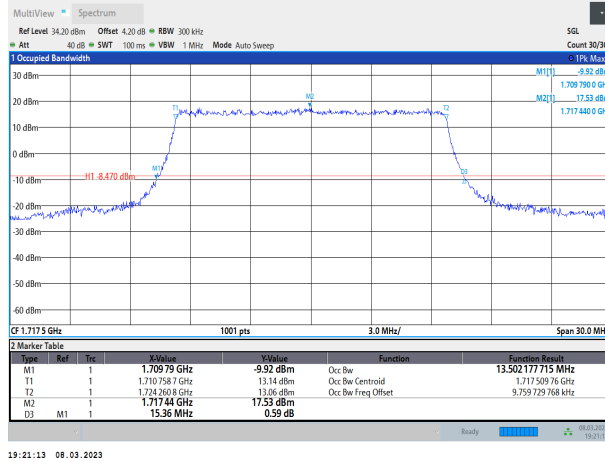


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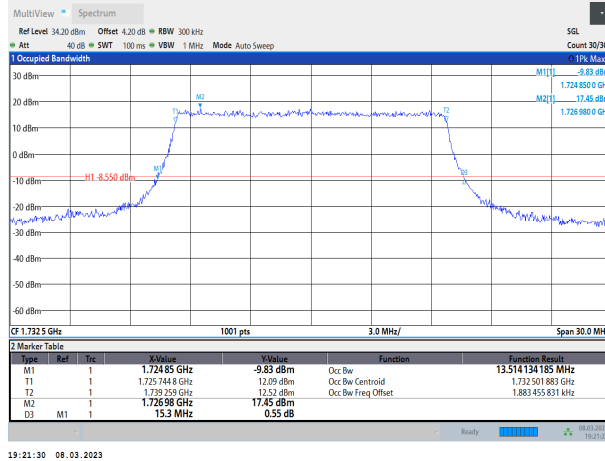
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Band4-15MHz-QPSK-20025-75RB#0



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

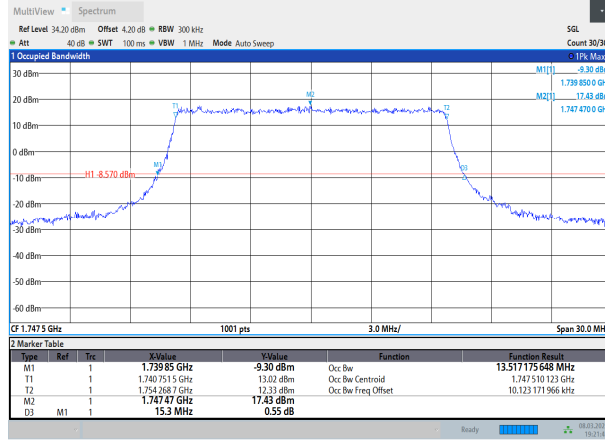


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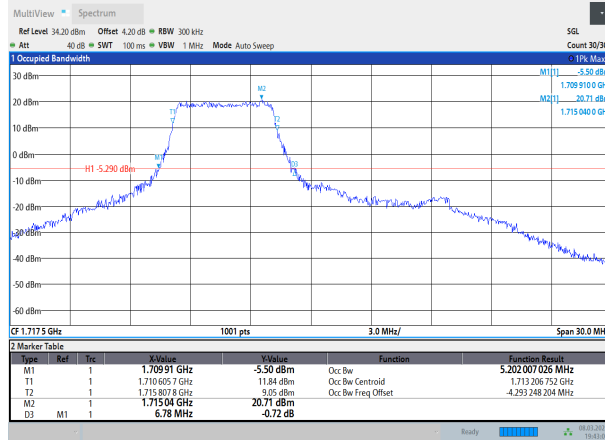
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Band4-15MHz-QPSK-20325-75RB#0



19:21:46 08.03.2023

Band4-15MHz-16QAM-20025-27RB#0



19:43:07 08.03.2023

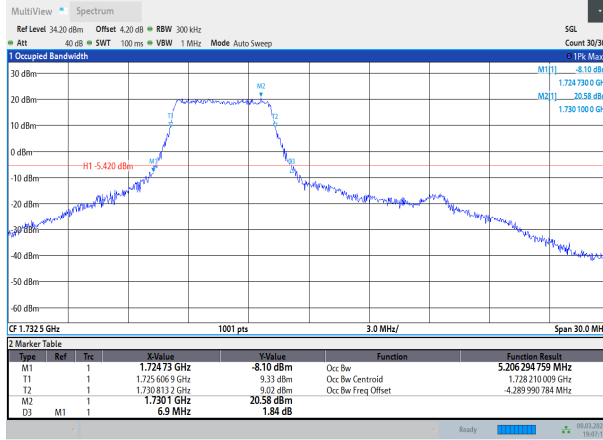


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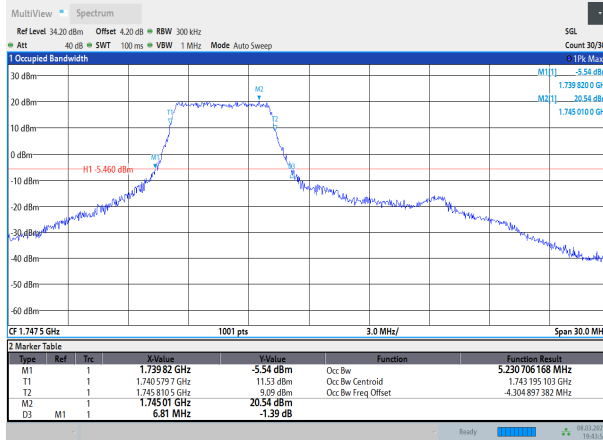
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Band4-15MHz-16QAM-20175-27RB#0



19:07:17 09.03.2023

Band4-15MHz-16QAM-20325-27RB#0



19:43:59 09.03.2023

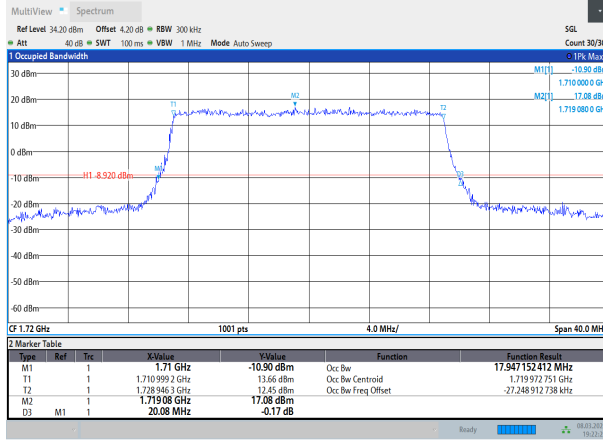


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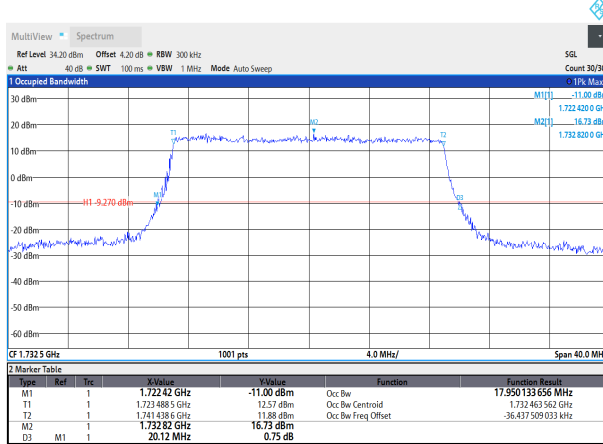
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Band4-20MHz-QPSK-20050-100RB#0



19:22:23 08.03.2023

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



19:22:39 08.03.2023

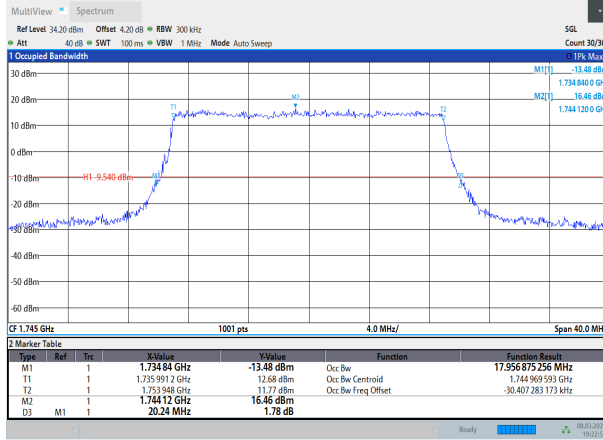


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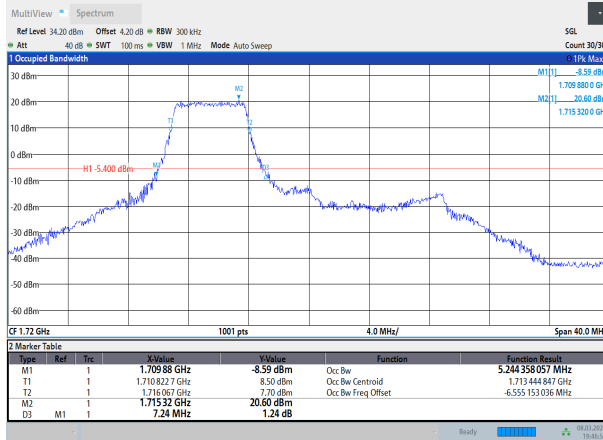
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Band4-20MHz-QPSK-20300-100RB#0



19:22:56 08.03.2023

Band4-20MHz-16QAM-20050-27RB#0



19:46:56 08.03.2023

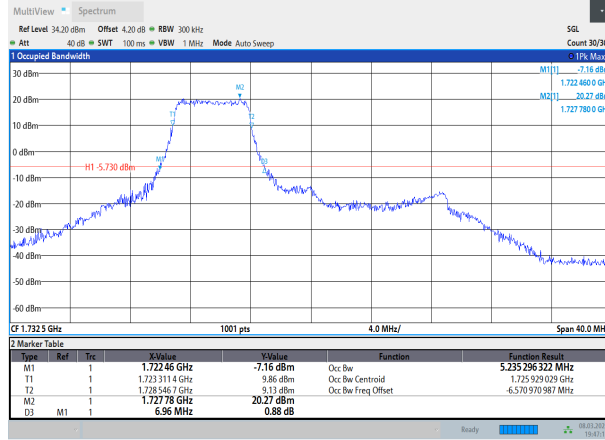


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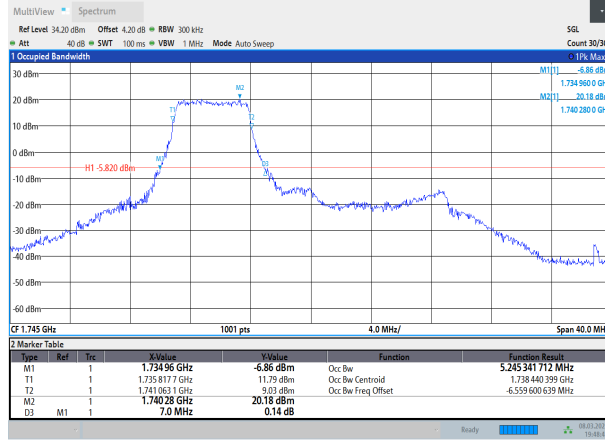
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Band4-20MHz-16QAM-20175-27RB#0



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Band4-20MHz-16QAM-20300-27RB#0



19:48:48 08.03.2023



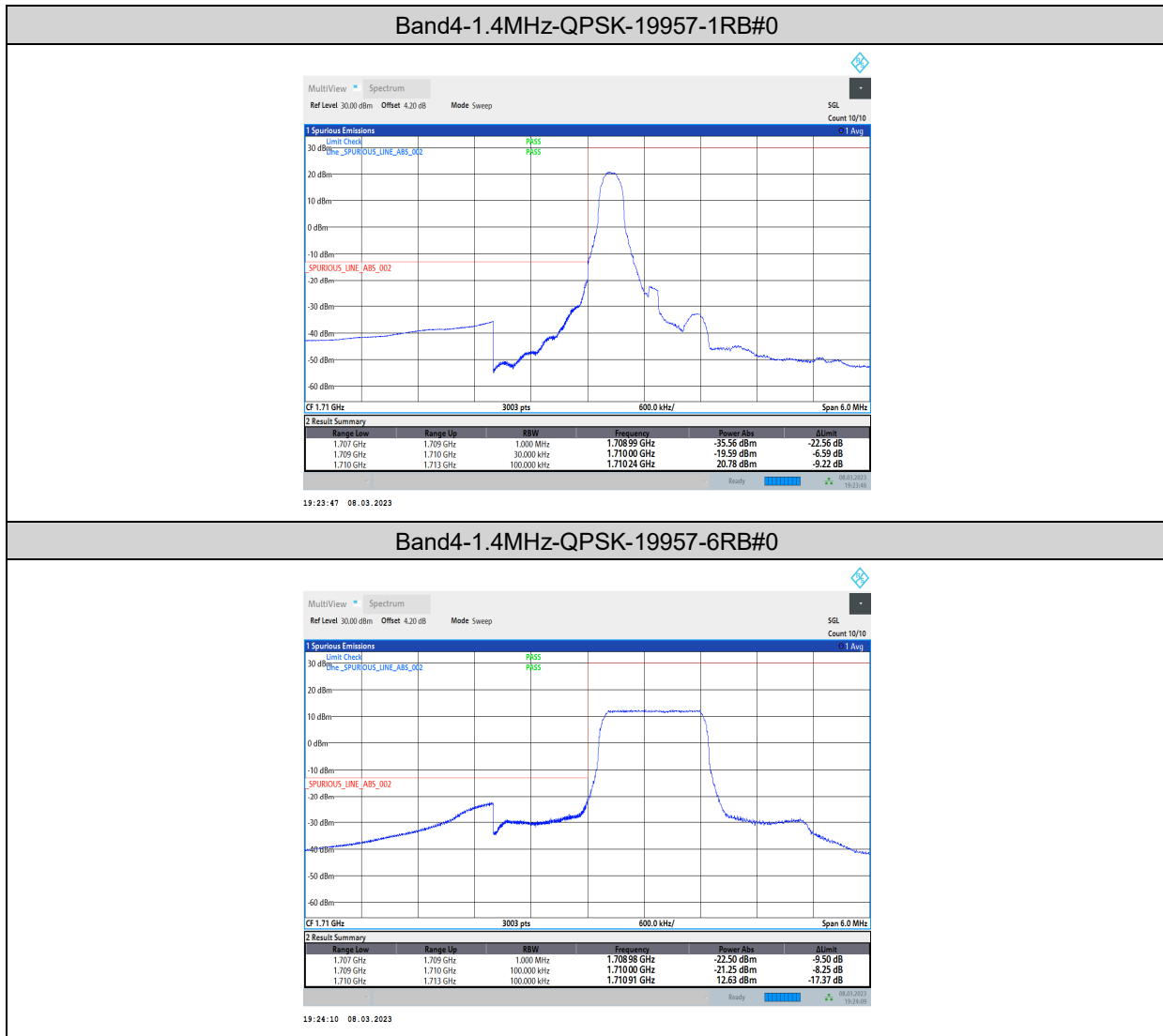
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## Band Edge

## Test Graphs



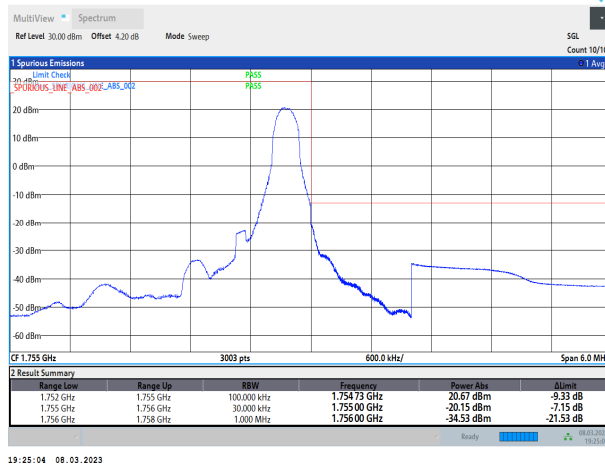
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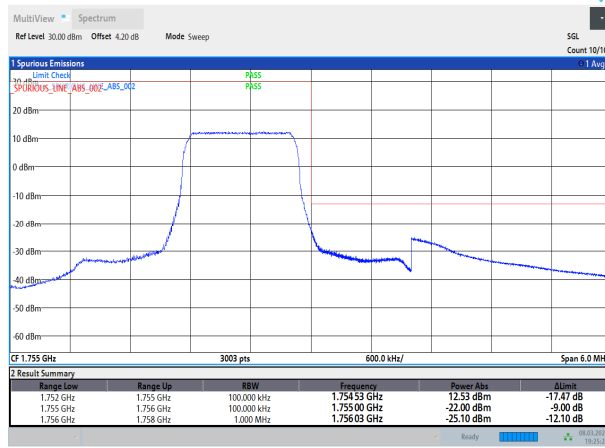


Band4-1.4MHz-QPSK-20393-1RB#5



19:25:04 08.03.2023

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



19:25:26 08.03.2023

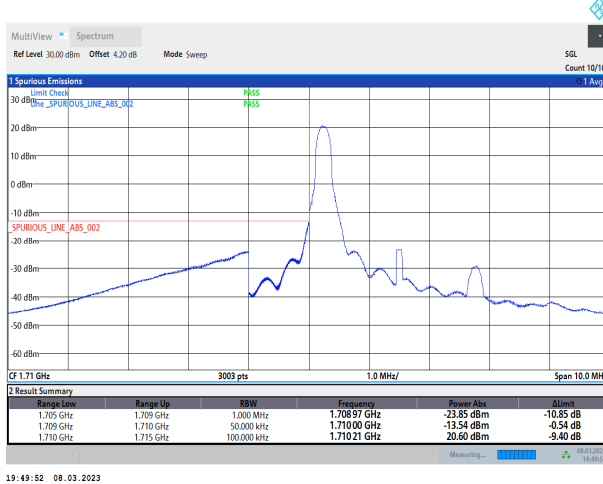


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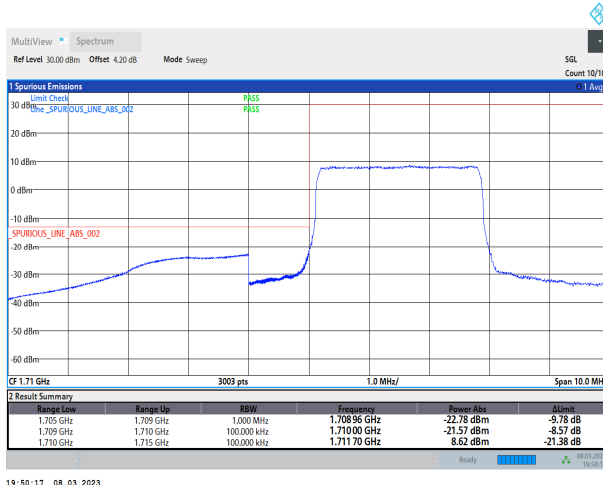
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Band4-3MHz-QPSK-19965-1RB#0



19:49:52 08.03.2023

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



19:50:17 08.03.2023

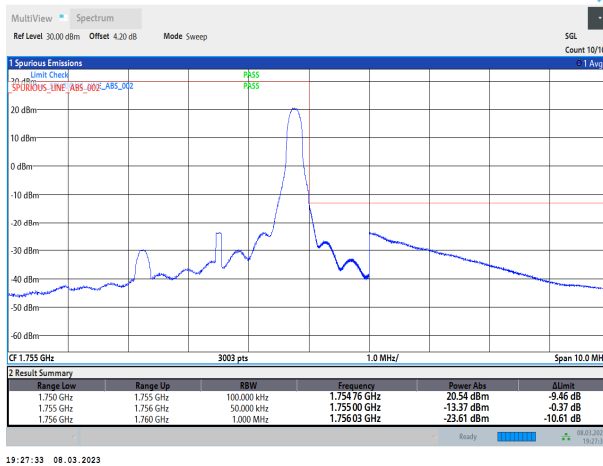


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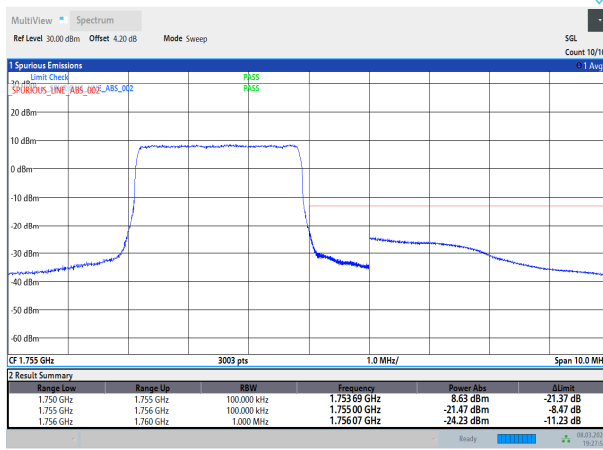
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Band4-3MHz-QPSK-20385-1RB#14



19:27:33 08.03.2023

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



19:27:56 08.03.2023

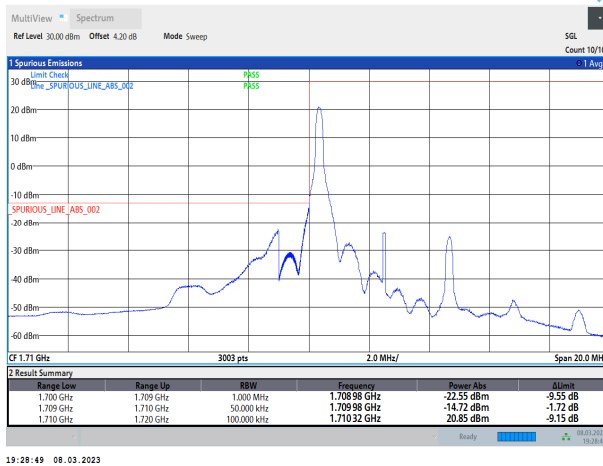


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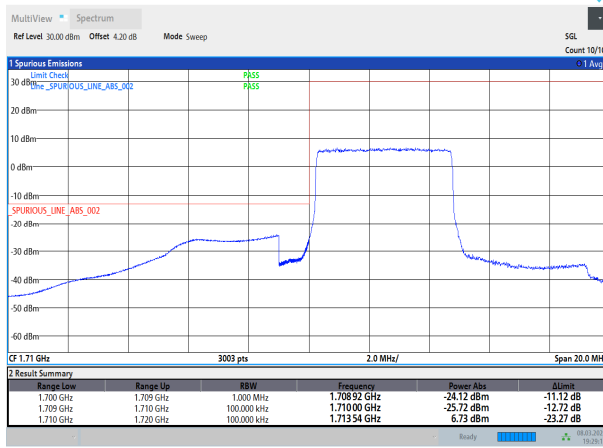
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Band4-5MHz-QPSK-19975-1RB#0



19:28:49 08.03.2023

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



19:29:12 08.03.2023

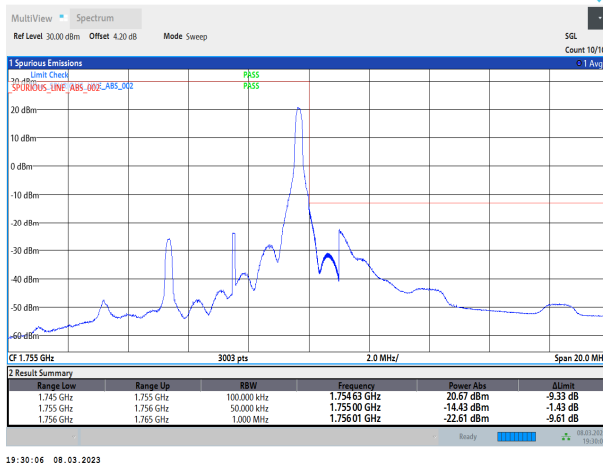


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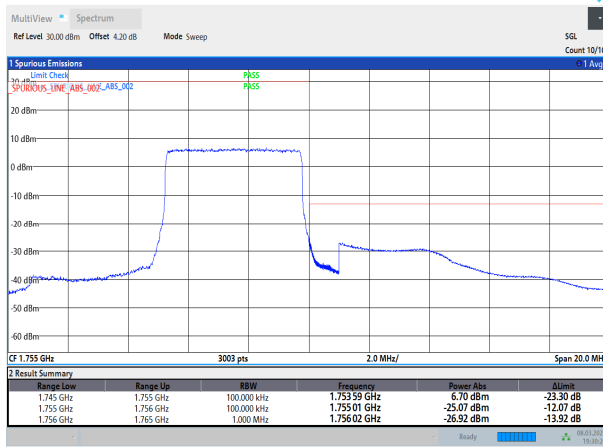
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Band4-5MHz-QPSK-20375-1RB#24



19:30:06 08.03.2023

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



19:30:29 08.03.2023

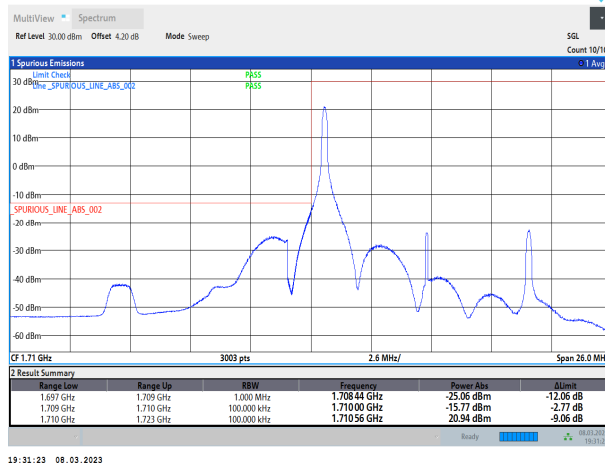


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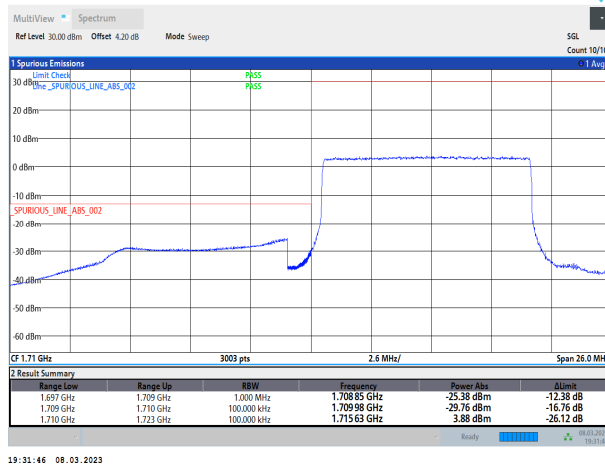
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Band4-10MHz-QPSK-20000-1RB#0



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

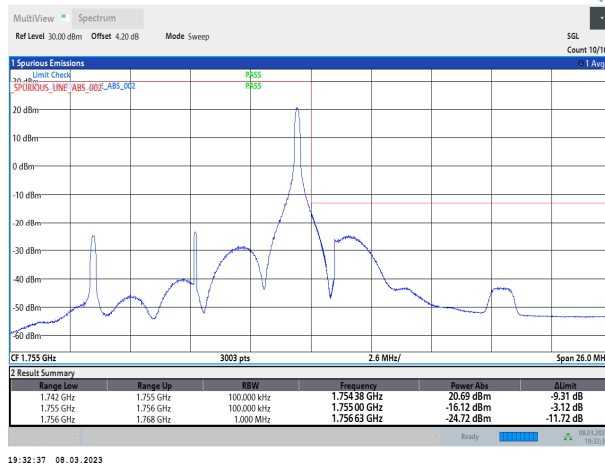


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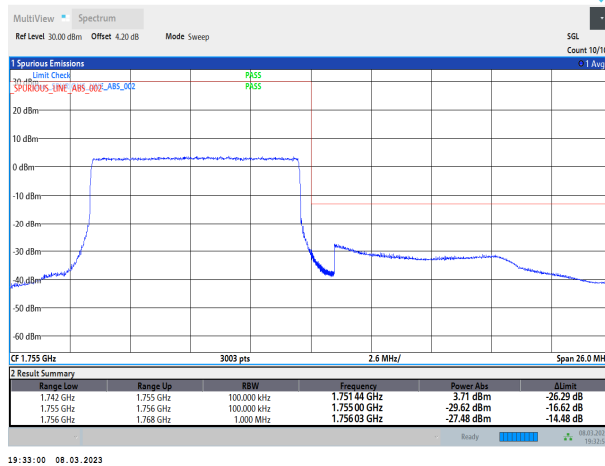
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Band4-10MHz-QPSK-20350-1RB#49



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

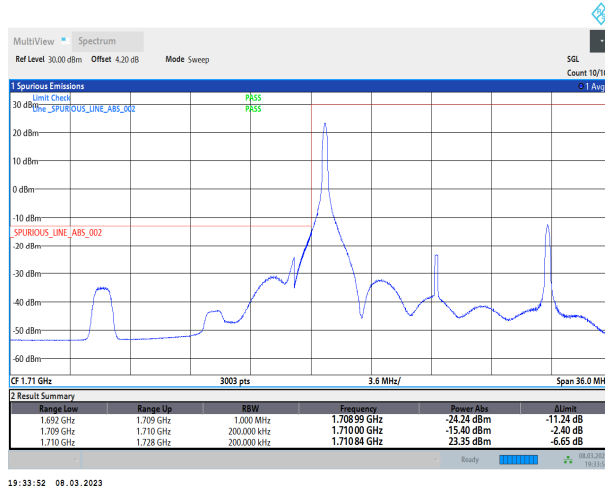


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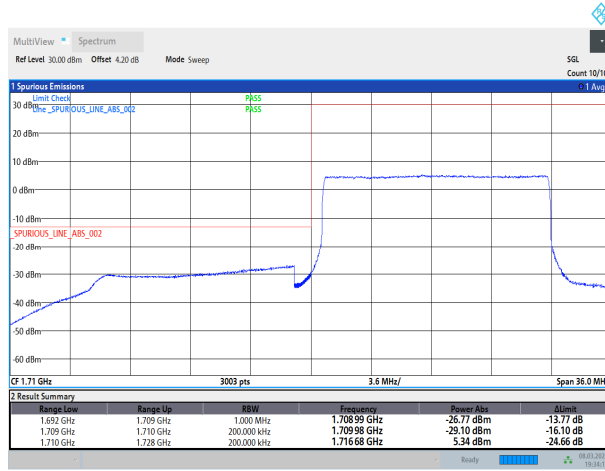
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Band4-15MHz-QPSK-20025-1RB#0



19:33:52 08.03.2023

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



19:34:15 08.03.2023



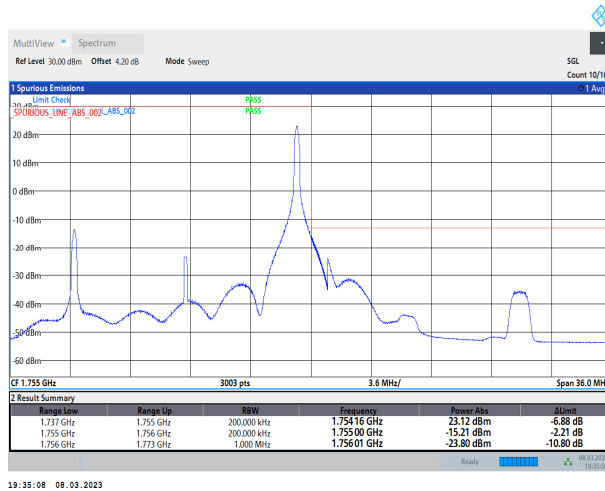
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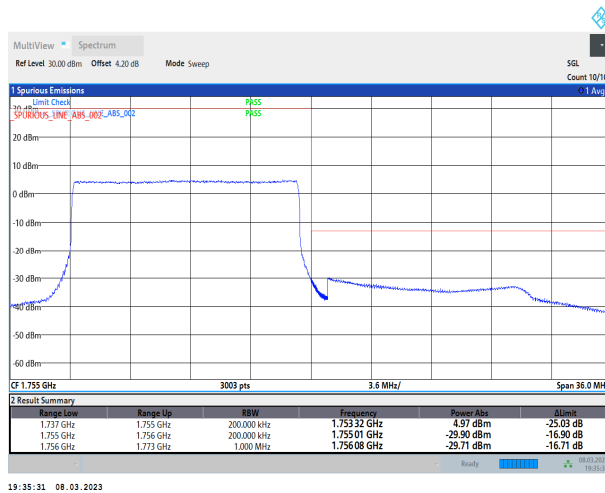
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Band4-15MHz-QPSK-20325-1RB#74



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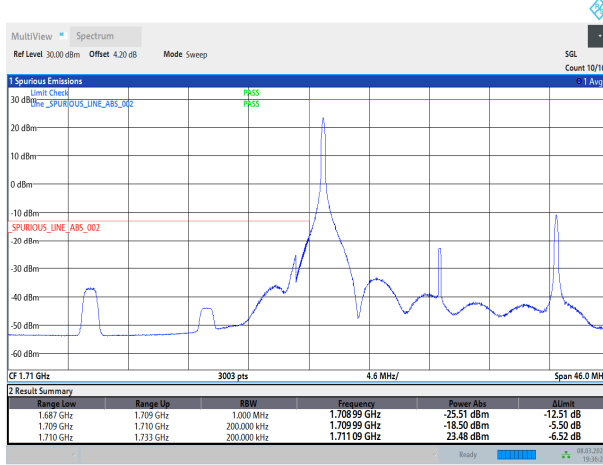


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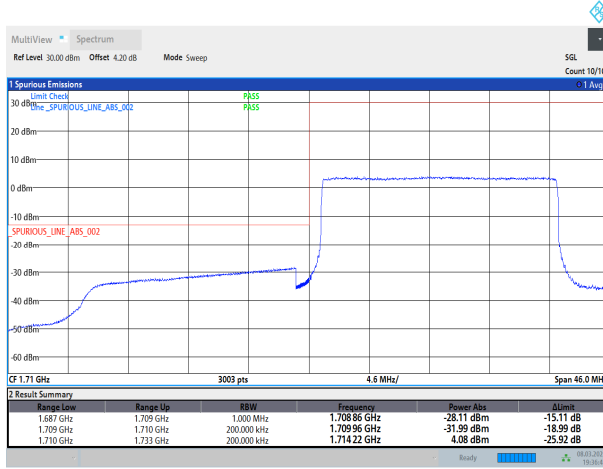
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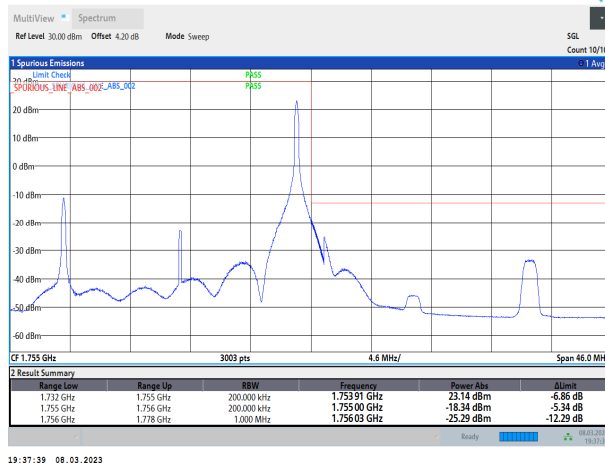


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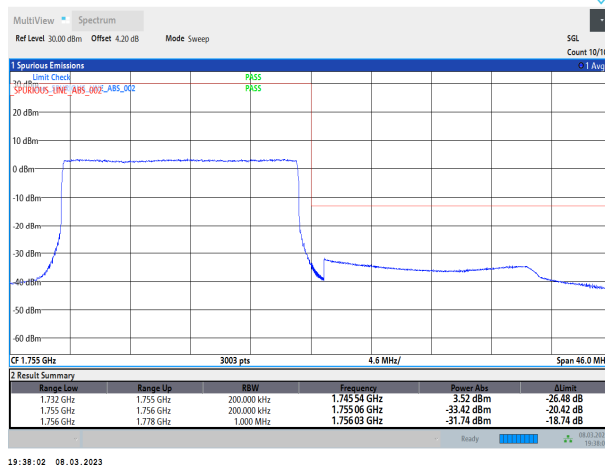
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Band4-20MHz-QPSK-20300-1RB#99



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



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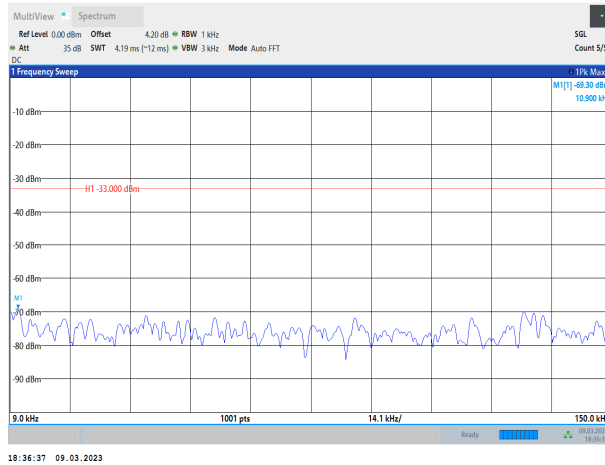
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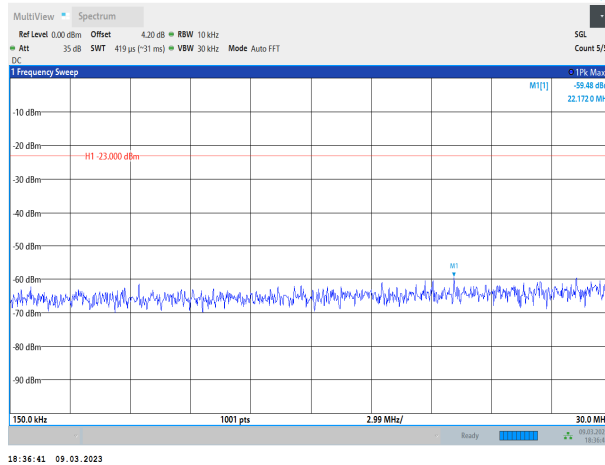
## Conducted Spurious Emission

### Test Graphs

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



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

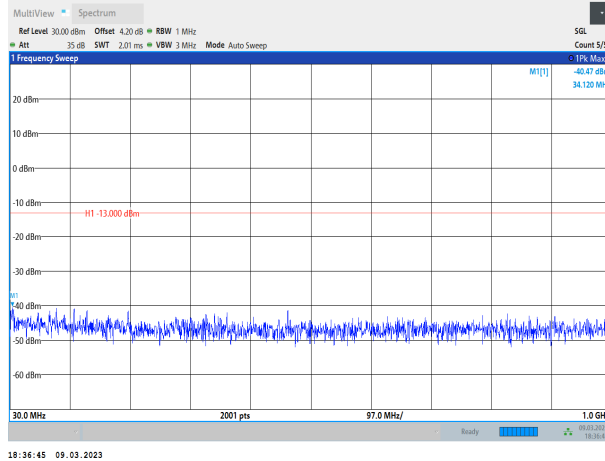


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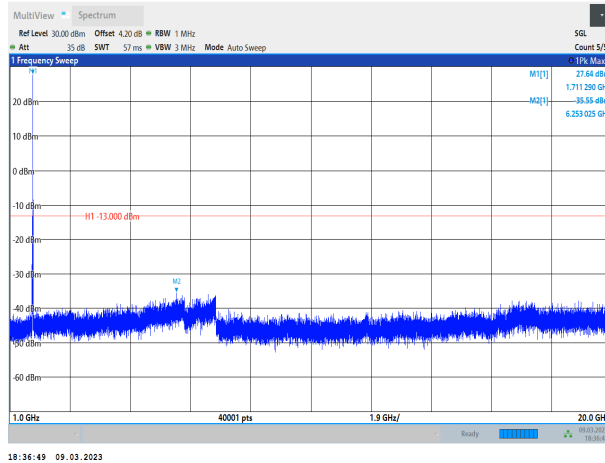
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



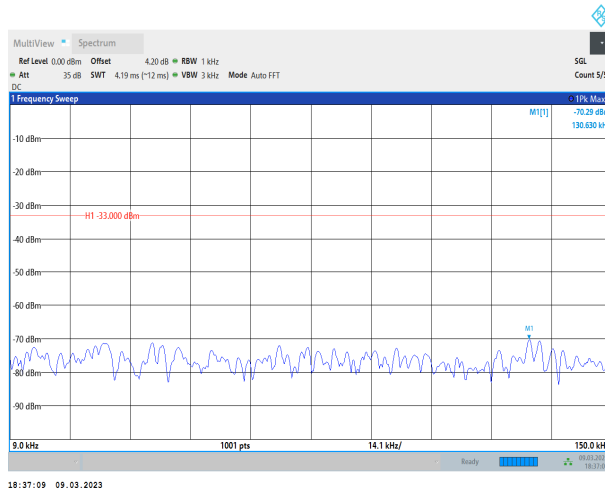
Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



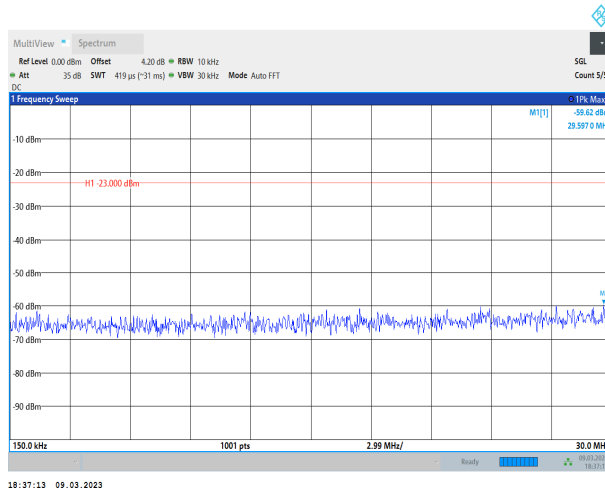
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



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

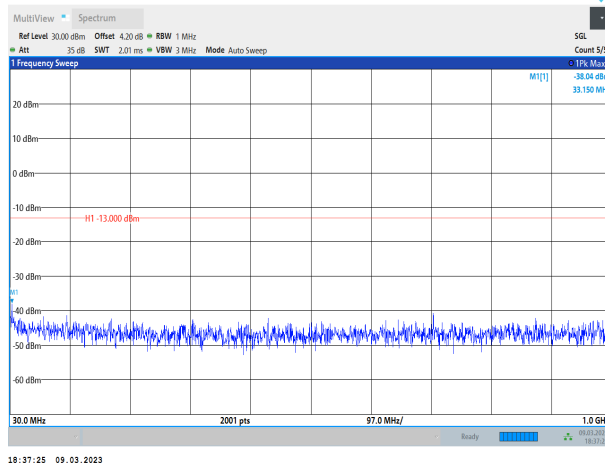


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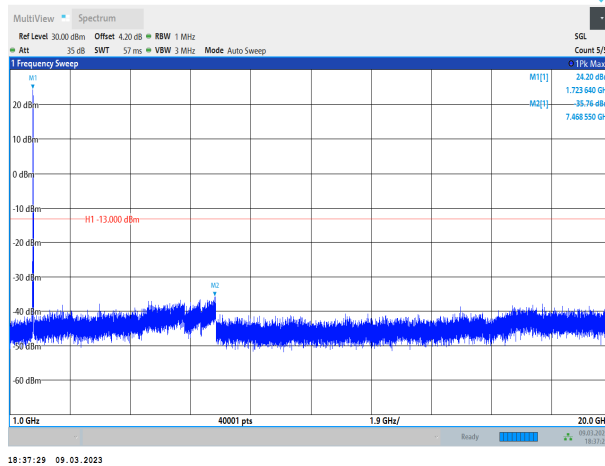
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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

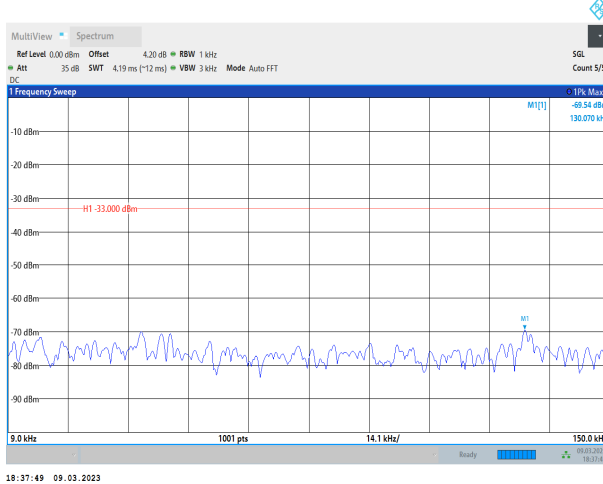


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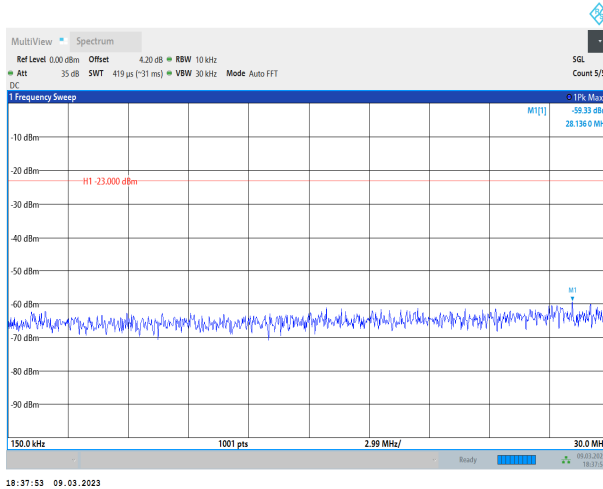
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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



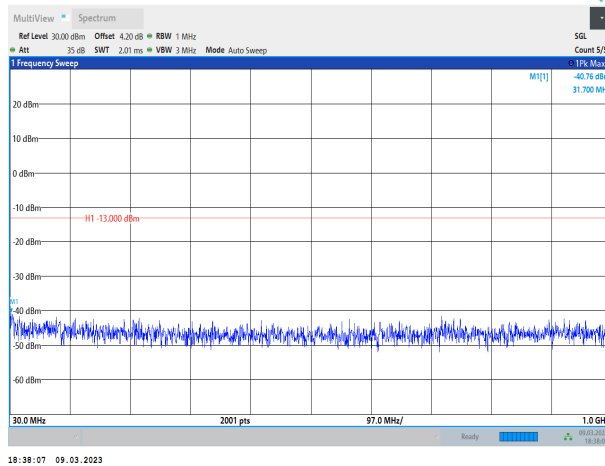
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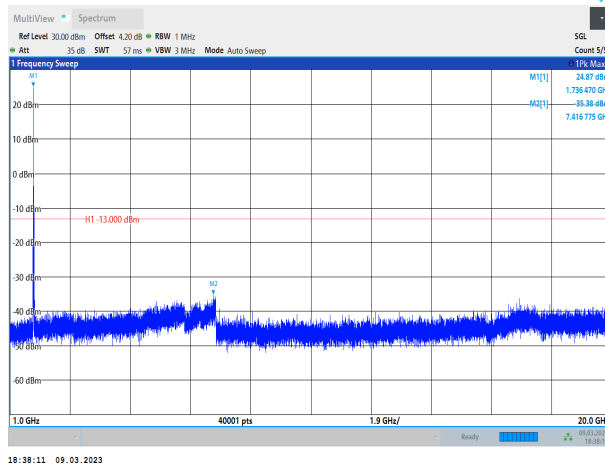
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



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



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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	65.46	-45.88	29.43	-46.25	-13.00	33.25	191	326	Horizontal
2	5133.27	41.02	-44.24	32.60	-65.88	-13.00	52.88	231	360	Horizontal
3	6844.36	39.36	-42.50	35.89	-62.51	-13.00	49.51	154	342	Horizontal
4	8555.45	36.49	-39.68	38.11	-60.34	-13.00	47.34	159	352	Horizontal
5	10266.54	34.10	-36.74	38.79	-59.10	-13.00	46.10	228	360	Horizontal
6	11977.63	31.87	-35.32	38.62	-60.08	-13.00	47.08	183	114	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	3422.18	58.21	-45.88	29.43	-53.50	-13.00	40.50	295	279	Vertical
2	5133.27	42.33	-44.24	32.60	-64.57	-13.00	51.57	264	352	Vertical
3	6844.36	40.37	-42.50	35.89	-61.50	-13.00	48.50	179	342	Vertical
4	8555.45	36.38	-39.68	38.11	-60.45	-13.00	47.45	168	181	Vertical
5	10266.54	32.84	-36.74	38.79	-60.36	-13.00	47.36	244	360	Vertical
6	11977.63	31.78	-35.32	38.62	-60.17	-13.00	47.17	159	32	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	63.73	-45.82	29.42	-47.93	-13.00	34.93	176	265	Horizontal
2	5170.77	41.28	-44.19	32.60	-65.57	-13.00	52.57	214	149	Horizontal
3	6894.36	39.67	-42.44	35.99	-62.04	-13.00	49.04	239	360	Horizontal
4	8617.95	35.90	-39.74	38.18	-60.92	-13.00	47.92	158	82	Horizontal
5	10341.54	34.68	-36.68	38.88	-58.38	-13.00	45.38	192	149	Horizontal
6	12065.13	32.93	-35.25	38.67	-58.92	-13.00	45.92	223	360	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	56.21	-45.82	29.42	-55.45	-13.00	42.45	286	265	Vertical
2	5170.77	41.53	-44.19	32.60	-65.32	-13.00	52.32	194	215	Vertical
3	6894.36	39.42	-42.44	35.99	-62.29	-13.00	49.29	281	360	Vertical
4	8617.95	36.82	-39.74	38.18	-60.00	-13.00	47.00	264	353	Vertical
5	10341.54	34.48	-36.68	38.88	-58.58	-13.00	45.58	175	360	Vertical
6	12065.13	32.40	-35.25	38.67	-59.45	-13.00	46.45	229	48	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	63.80	-45.76	29.41	-47.81	-13.00	34.81	214	327	Horizontal
2	5208.27	41.00	-44.14	32.60	-65.80	-13.00	52.80	285	47	Horizontal
3	6944.36	39.36	-42.50	36.09	-62.31	-13.00	49.31	194	163	Horizontal
4	8680.45	36.20	-39.46	38.25	-60.27	-13.00	47.27	268	32	Horizontal
5	10416.54	31.05	-36.46	38.96	-61.71	-13.00	48.71	251	81	Horizontal
6	12152.63	31.25	-35.22	38.75	-60.48	-13.00	47.48	153	32	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	3472.18	56.04	-45.76	29.41	-55.57	-13.00	42.57	136	280	Vertical
2	5208.27	41.29	-44.14	32.60	-65.51	-13.00	52.51	213	331	Vertical
3	6944.36	39.55	-42.50	36.09	-62.12	-13.00	49.12	294	264	Vertical
4	8680.45	37.12	-39.46	38.25	-59.35	-13.00	46.35	185	360	Vertical
5	10416.54	31.21	-36.46	38.96	-61.55	-13.00	48.55	221	31	Vertical
6	12152.63	31.39	-35.22	38.75	-60.34	-13.00	47.34	162	360	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86-512) 62992980 www.sgsgroup.com.cn  
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区湖胜路1号的6号厂房南楼 邮编: 215000 t (86-512) 62992980 sgs.china@sgs.com

## 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	-4.70	-0.002713	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-3.80	-0.002193	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-4.60	-0.002655	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-4.40	-0.002540	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-2.40	-0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-5.20	-0.003001	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-5.40	-0.003117	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-2.20	-0.001270	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-3.20	-0.001847	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.40	-0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-1.30	-0.000750	PASS

---End of Attachment---



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com