

Report No.: SEWA2204000011RG01

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	22.96	24.96	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.87	24.87	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.7	24.7	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.84	23.84	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.88	24.88	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.76	24.76	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.64	24.64	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.81	23.81	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.79	24.79	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.79	24.79	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.88	24.88	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.76	23.76	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.87	23.87	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.59	23.59	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.81	23.81	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.95	22.95	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	22.26	24.26	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.08	24.08	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.81	23.81	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.57	22.57	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.73	23.73	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.63	23.63	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.41	23.41	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.96	22.96	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.93	24.93	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.73	24.73	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.72	24.72	30	PASS



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Band4	3MHz	QPSK	19965	15RB#0	21.86	23.86	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.75	24.75	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.76	24.76	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.68	24.68	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.79	23.79	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.76	24.76	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.69	24.69	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.92	24.92	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.73	23.73	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.45	23.45	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.55	23.55	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.51	23.51	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.78	22.78	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.6	23.6	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.68	23.68	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.52	23.52	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.72	22.72	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.22	23.22	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.48	23.48	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.12	24.12	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.67	22.67	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.83	24.83	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.92	24.92	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.64	24.64	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.7	23.7	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.6	24.6	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23	25	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.68	24.68	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.76	23.76	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.54	24.54	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.05	25.05	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.89	24.89	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.82	23.82	30	PASS



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Band4	5MHz	16QAM	19975	1RB#0	21.67	23.67	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.66	23.66	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.56	23.56	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.72	22.72	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.6	23.6	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.17	23.17	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.51	23.51	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.77	22.77	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.4	23.4	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.75	23.75	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.99	23.99	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.04	23.04	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.89	24.89	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.8	24.8	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.67	24.67	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.8	23.8	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.61	24.61	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.86	24.86	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.93	24.93	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.74	23.74	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.66	24.66	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.67	24.67	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.06	25.06	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.69	23.69	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.65	23.65	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.75	23.75	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.69	23.69	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.7	22.7	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.35	23.35	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.17	23.17	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.31	23.31	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.66	22.66	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.95	23.95	30	PASS



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Band4	10MHz	16QAM	20350	1RB#24	21.76	23.76	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.05	24.05	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.5	22.5	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.86	24.86	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.94	24.94	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.58	24.58	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.82	23.82	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.47	24.47	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.67	24.67	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.81	24.81	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.84	23.84	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.71	24.71	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.76	24.76	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.06	25.06	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.68	23.68	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.64	23.64	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.53	23.53	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.63	23.63	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.72	22.72	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.48	23.48	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.62	23.62	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.54	23.54	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.75	22.75	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.75	23.75	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.38	23.38	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.08	24.08	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.69	22.69	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.85	24.85	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.78	24.78	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.59	24.59	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.8	23.8	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.69	24.69	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.85	24.85	30	PASS



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Band4	20MHz	QPSK	20175	100RB#0	21.77	23.77	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.93	24.93	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.7	24.7	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.89	24.89	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.76	23.76	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.54	23.54	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.63	23.63	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.58	23.58	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.8	22.8	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.52	23.52	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.02	23.02	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.63	23.63	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.76	22.76	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.81	23.81	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.52	23.52	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.68	23.68	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.8	22.8	30	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	5.26	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.08	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.84	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.12	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	5.94	13	PASS

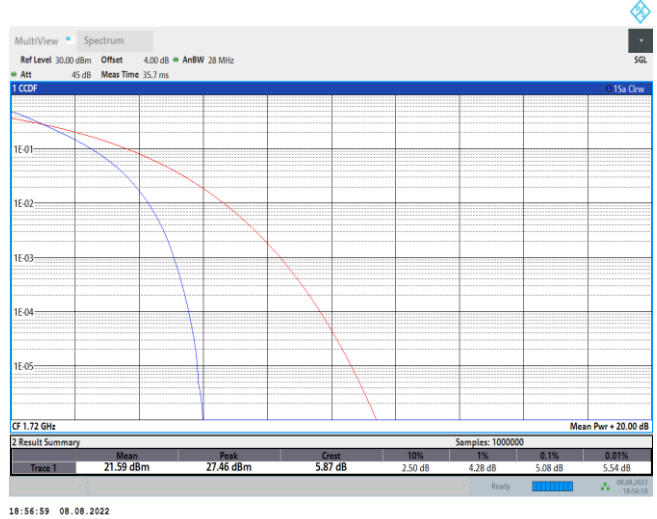


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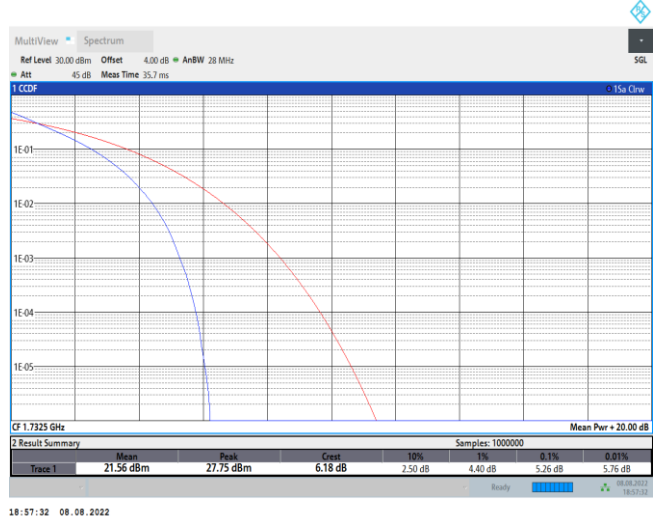
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Test Graphs

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



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



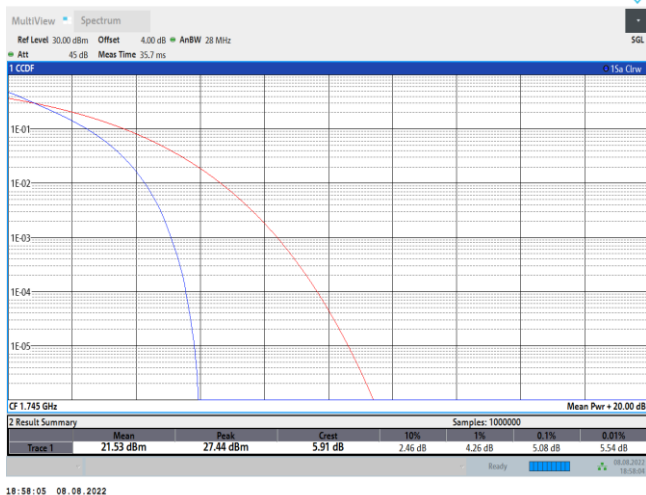
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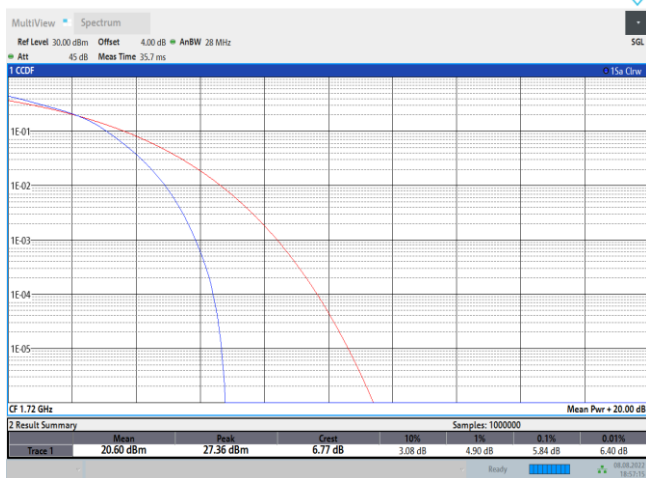


Band4-20MHz-QPSK-20300-100RB#0



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

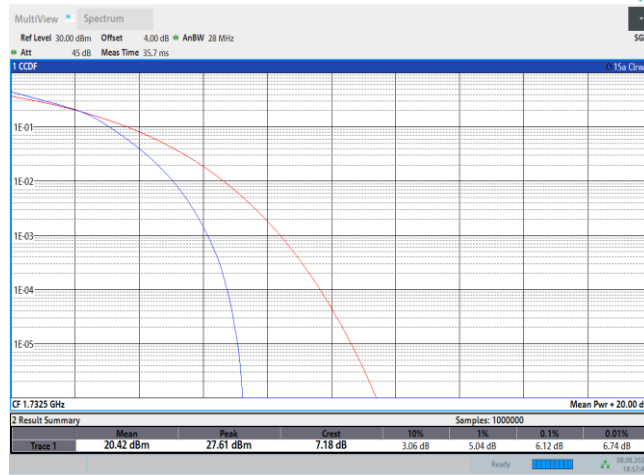


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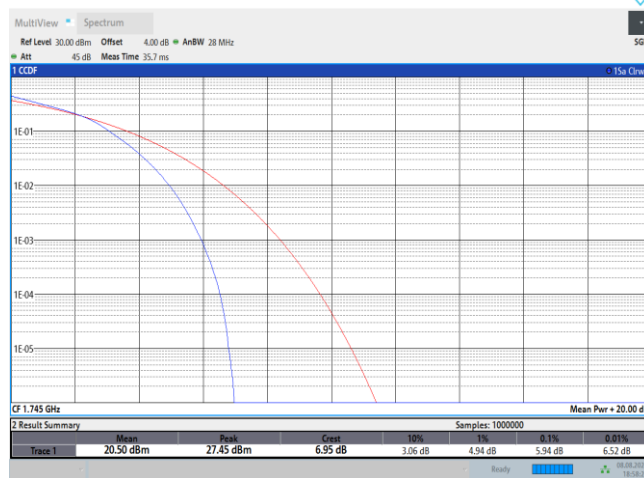
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Band4-20MHz-16QAM-20175-100RB#0



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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



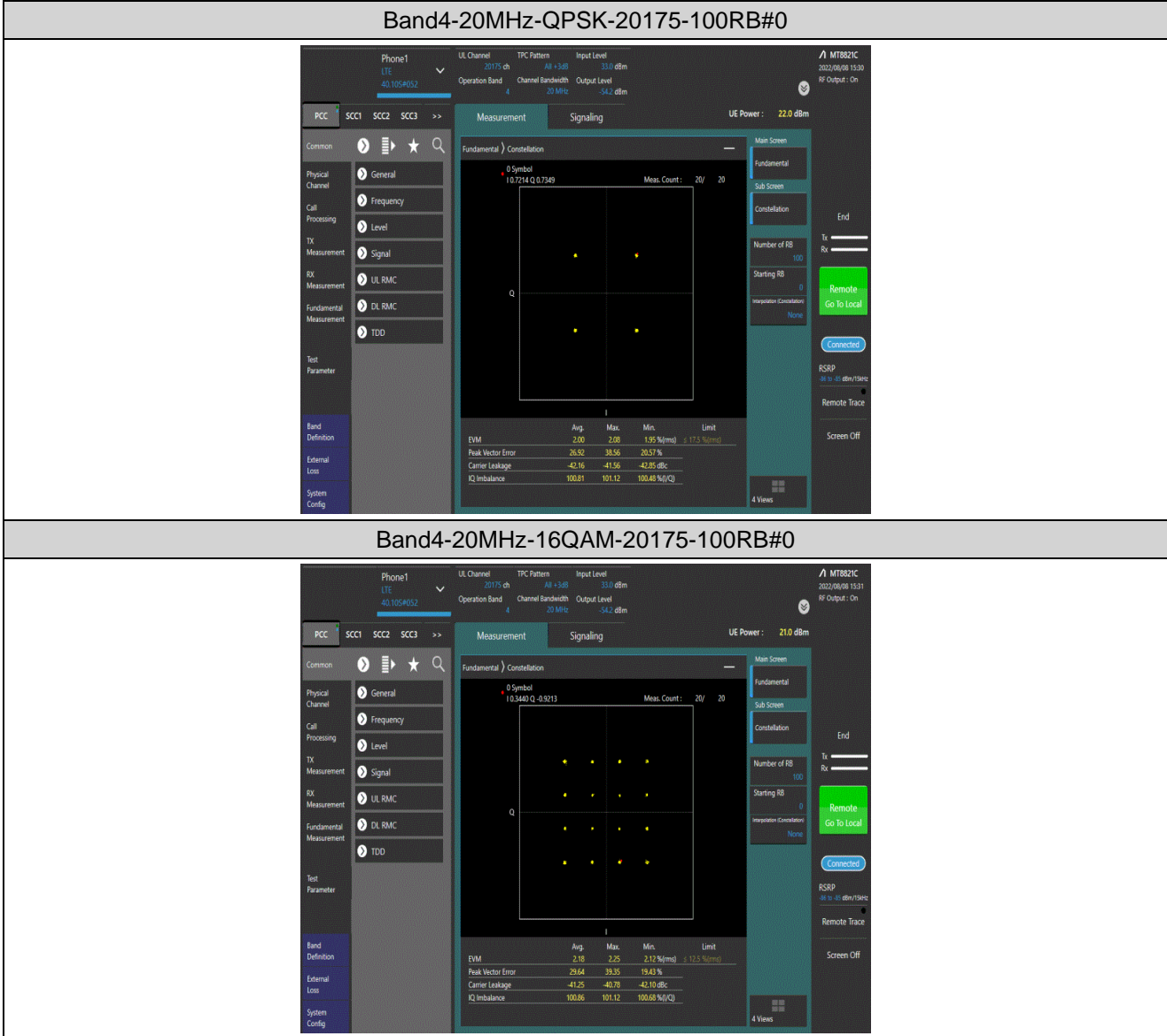
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Test Graphs



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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	1.088	1.28	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.087	1.28	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.29	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.097	1.31	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.096	1.30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.099	1.32	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.693	2.97	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.694	2.96	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.95	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.687	2.97	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.687	2.96	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.687	2.98	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.469	4.88	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.90	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.468	4.90	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.463	4.95	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.463	4.92	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.469	4.96	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.914	9.68	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.924	9.66	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.932	9.62	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.902	9.66	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.902	9.66	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.9	9.68	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.415	14.70	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.438	14.73	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.435	14.70	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.395	14.79	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.406	14.79	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.412	14.79	PASS



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Rev.: 01

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Band4	20MHz	QPSK	20050	100RB#0	17.85	19.20	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.902	19.52	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.875	19.48	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.827	19.28	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.857	19.36	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.859	19.32	PASS



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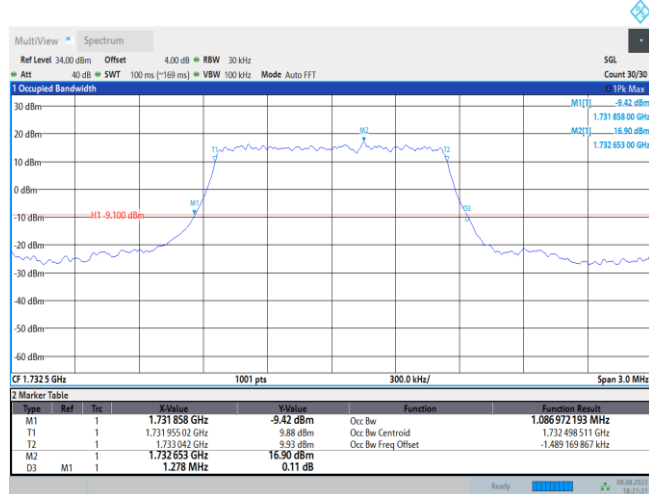
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Band4-1.4MHz-QPSK-19957-6RB#0

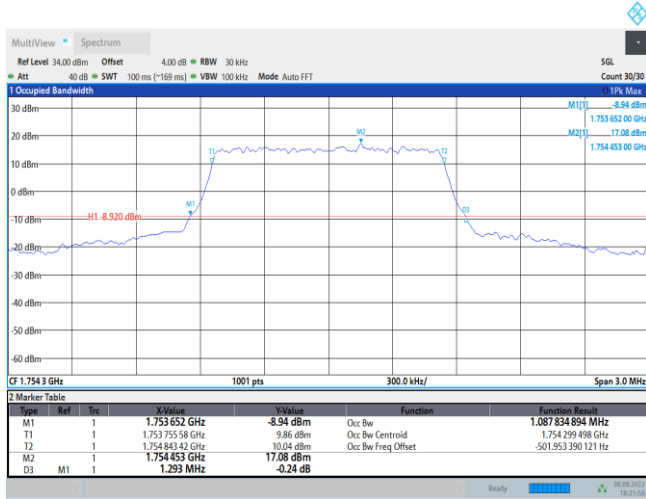


Band4-1.4MHz-QPSK-20175-6RB#0



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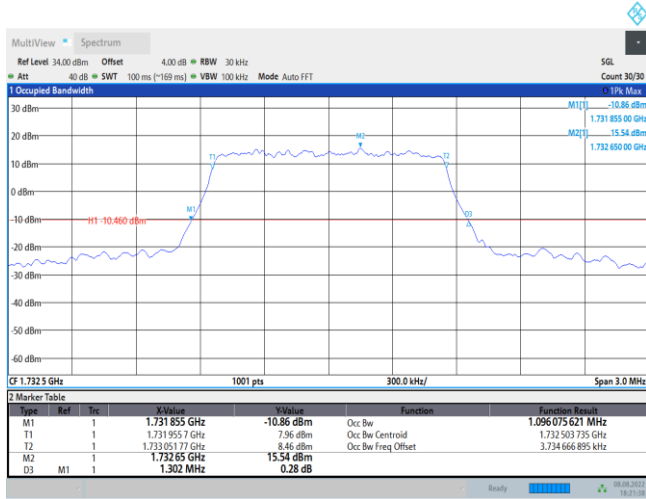


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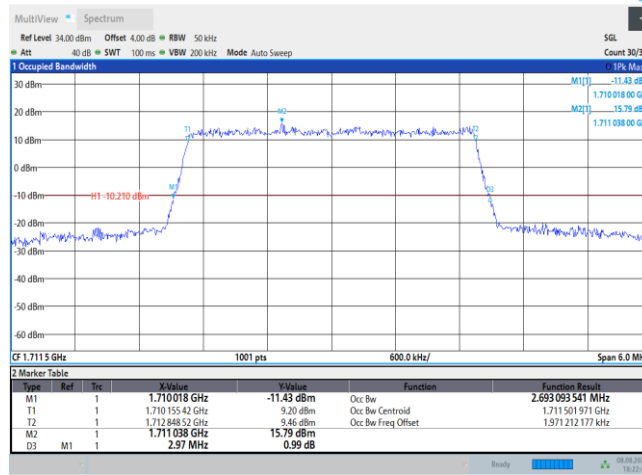


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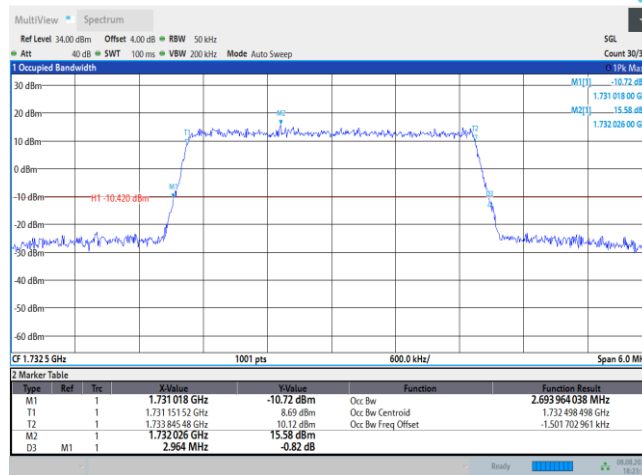
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Band4-3MHz-QPSK-19965-15RB#0



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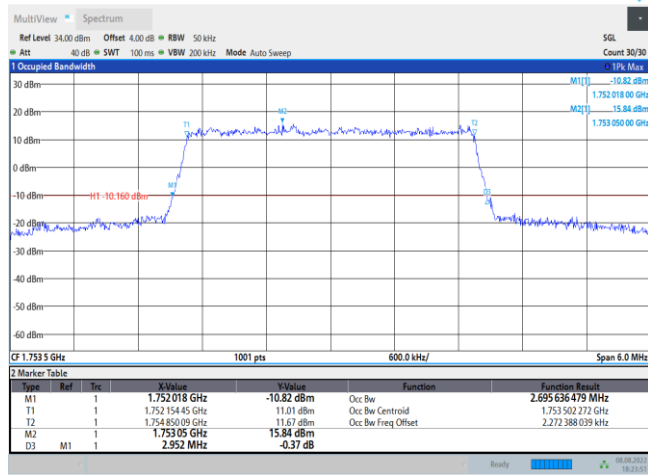
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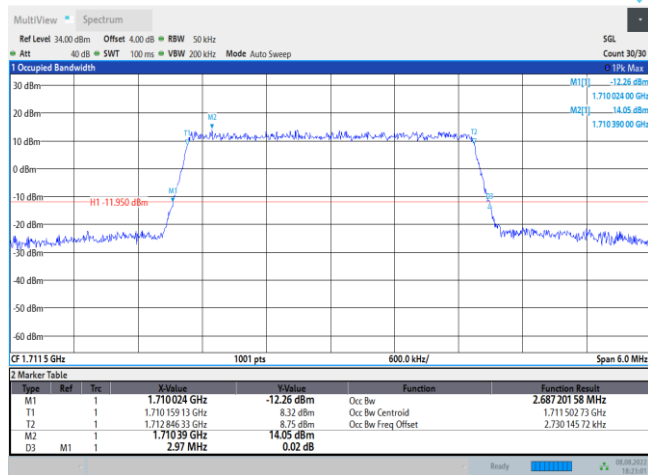


Band4-3MHz-QPSK-20385-15RB#0



18:23:52 08.08.2022

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



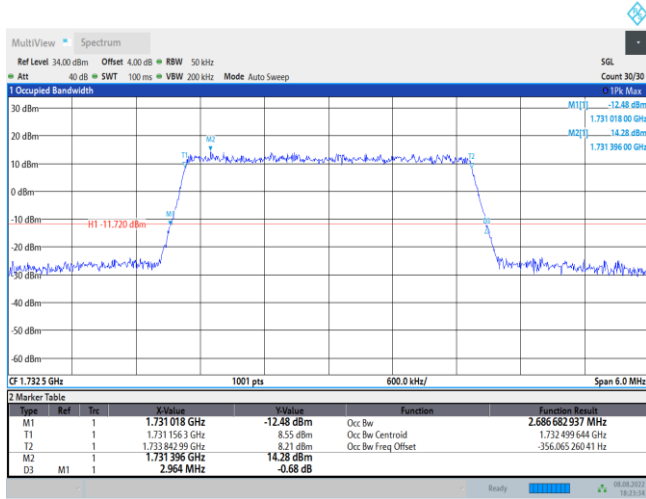
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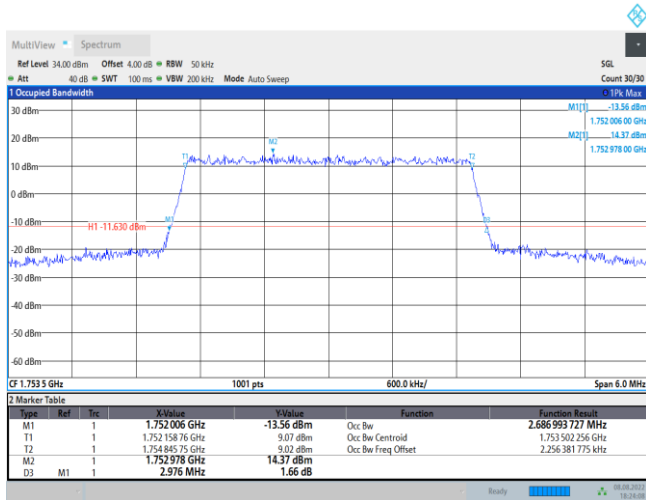
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18:23:35 08.08.2022

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

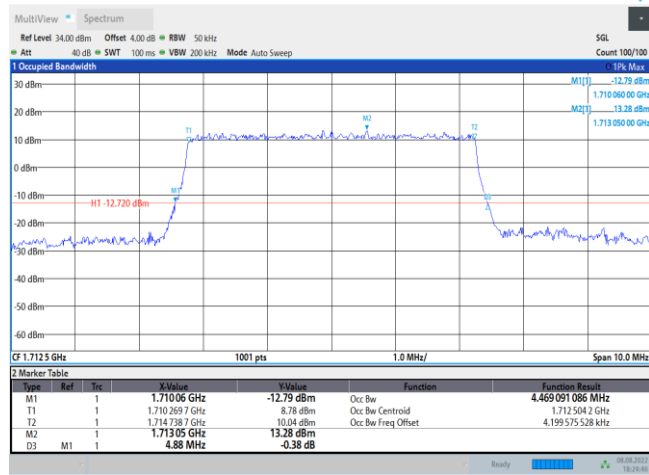


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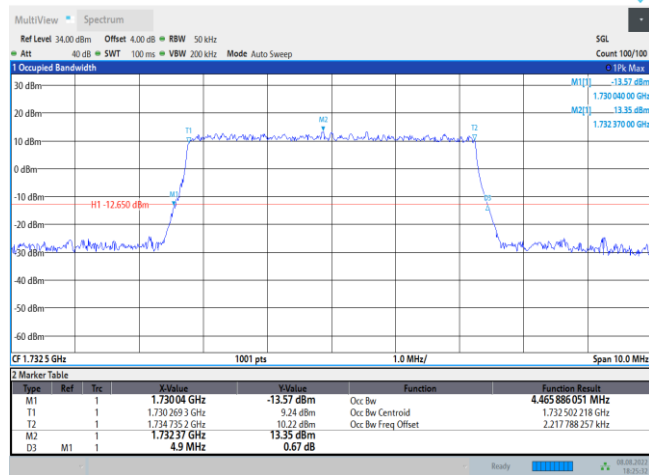
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Band4-5MHz-QPSK-19975-25RB#0



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



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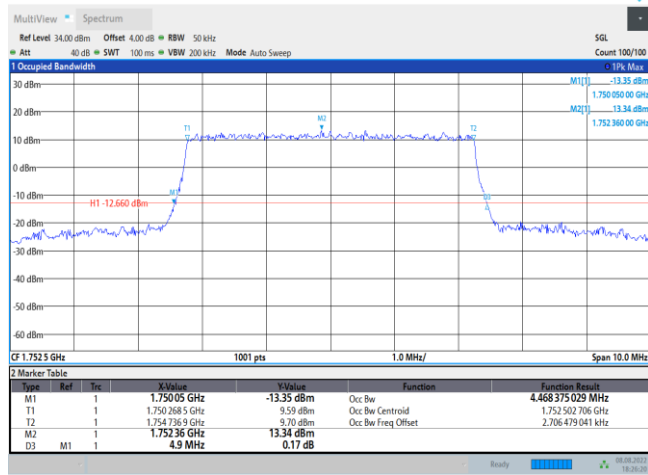


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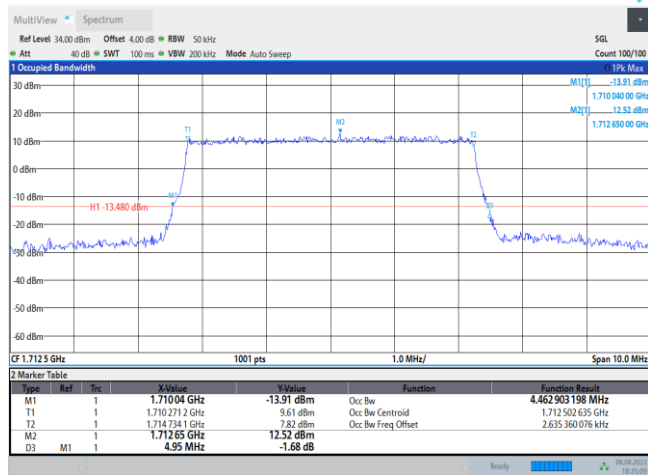
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Band4-5MHz-QPSK-20375-25RB#0



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



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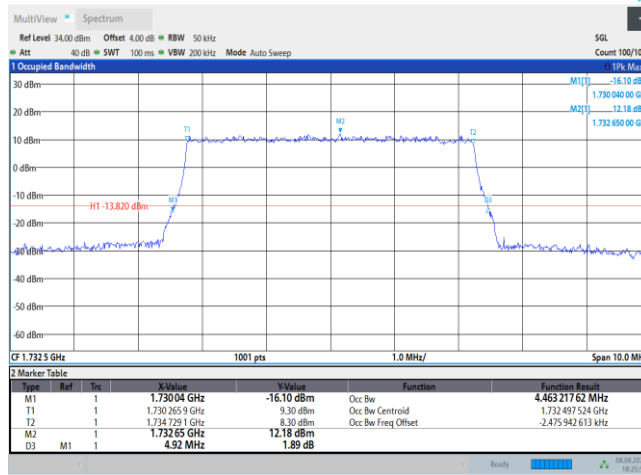


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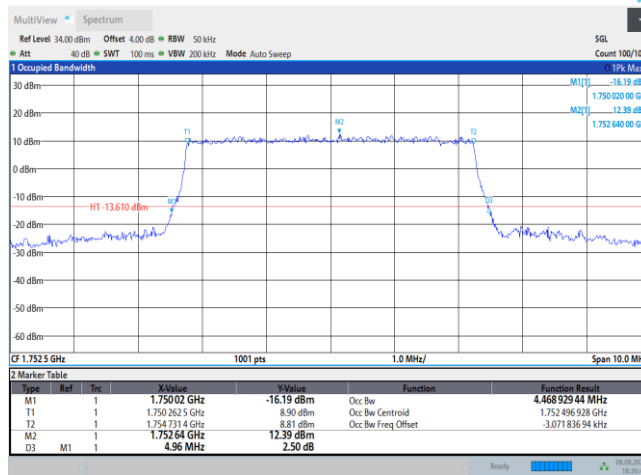
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Band4-5MHz-16QAM-20175-25RB#0



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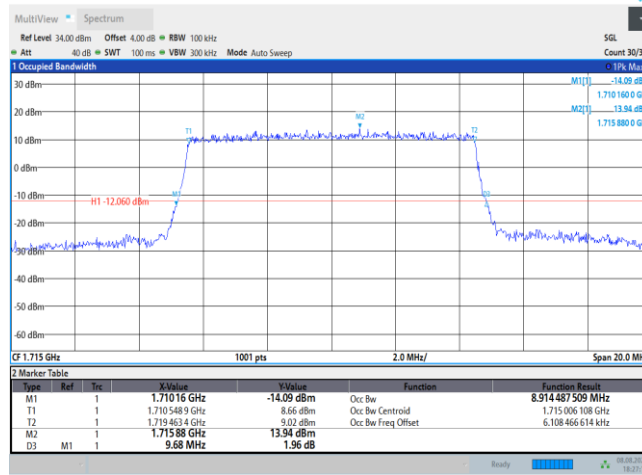
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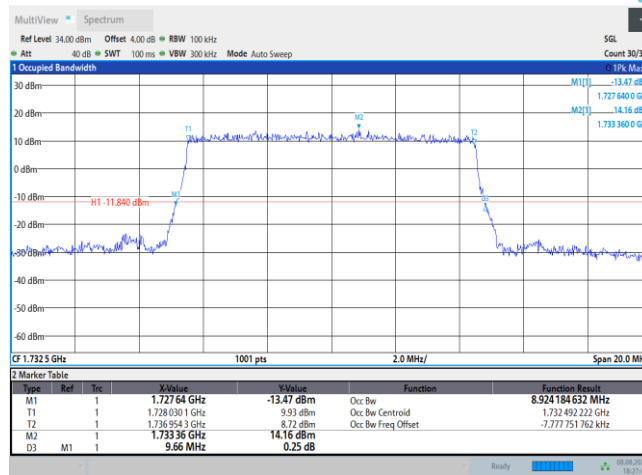


Band4-10MHz-QPSK-20000-50RB#0



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



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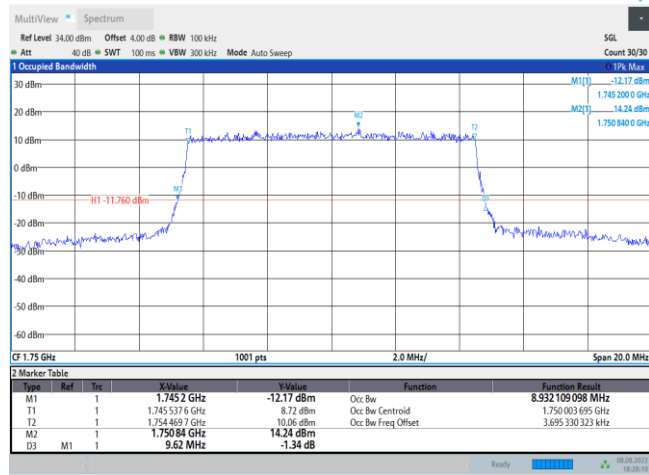
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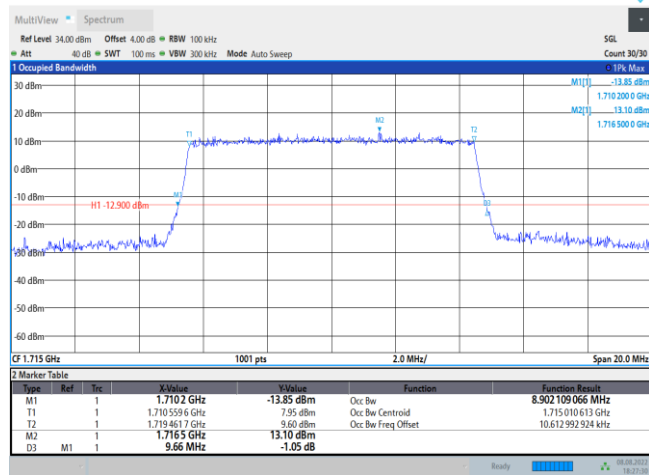
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Band4-10MHz-QPSK-20350-50RB#0



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



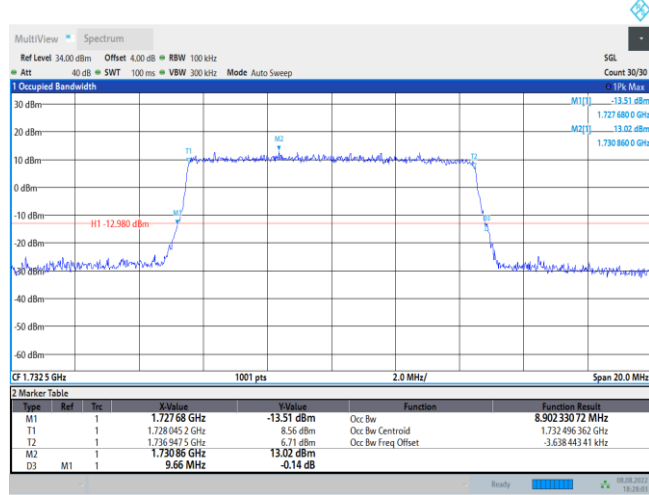
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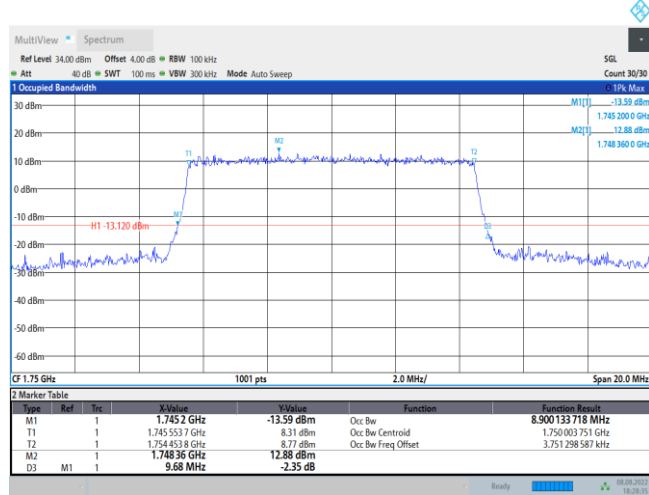
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Band4-10MHz-16QAM-20175-50RB#0



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



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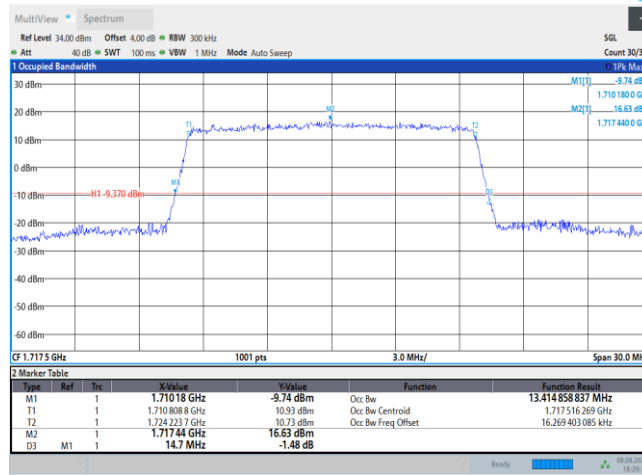
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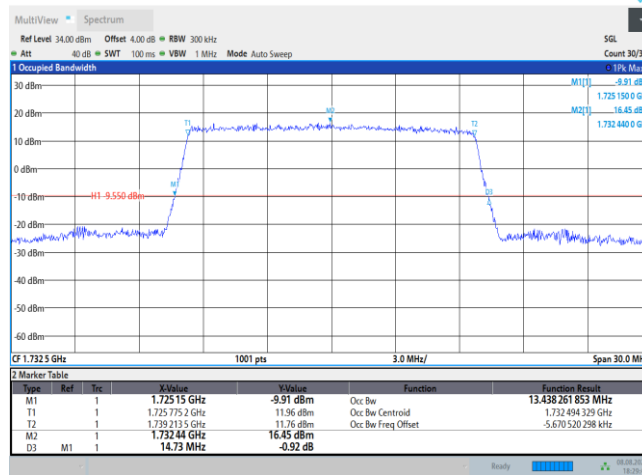
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Band4-15MHz-QPSK-20025-75RB#0



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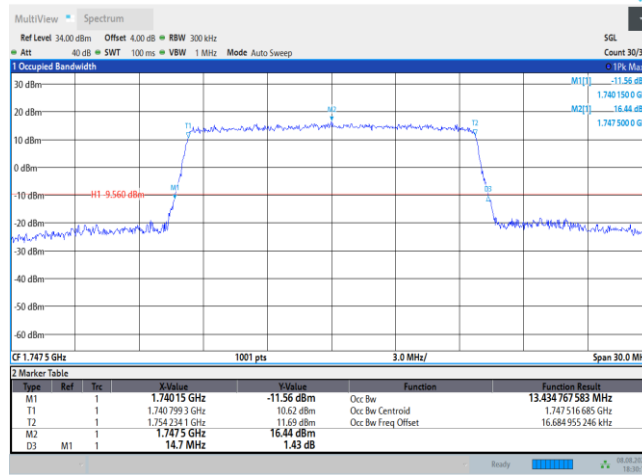


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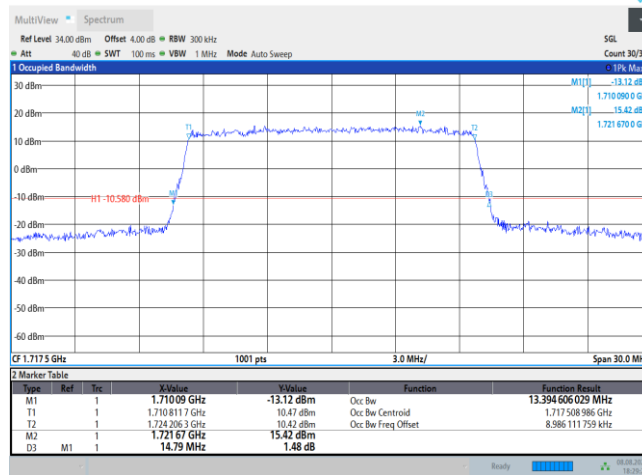
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Band4-15MHz-QPSK-20325-75RB#0



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



18:29:29 08.08.2022



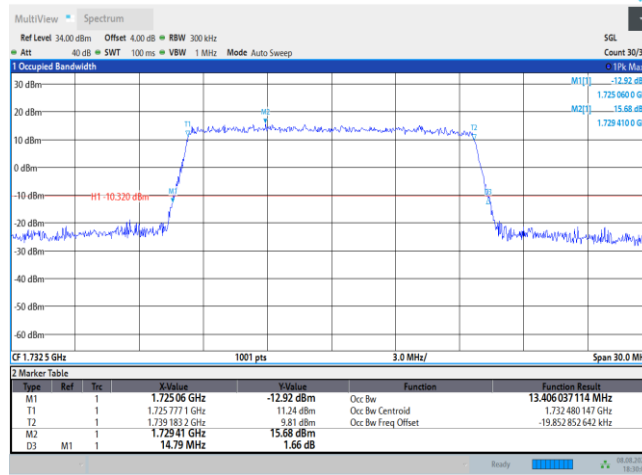
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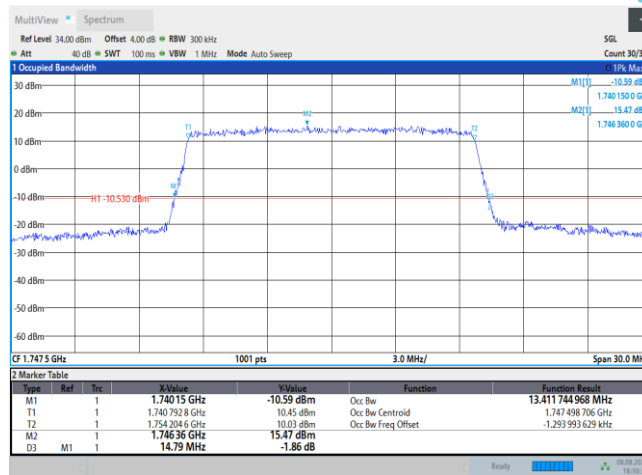


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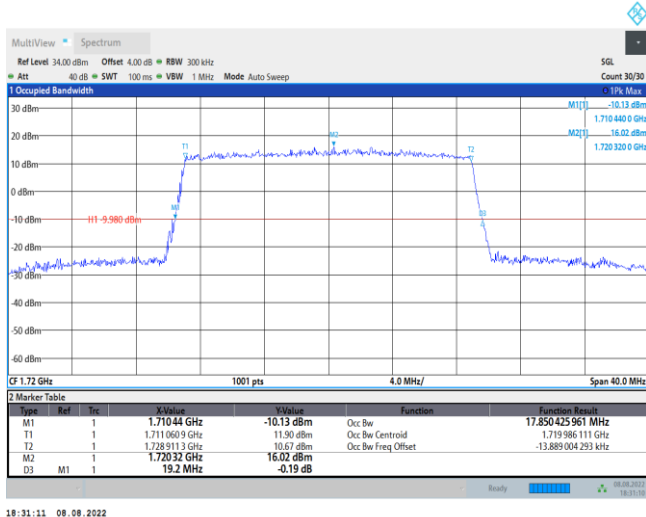


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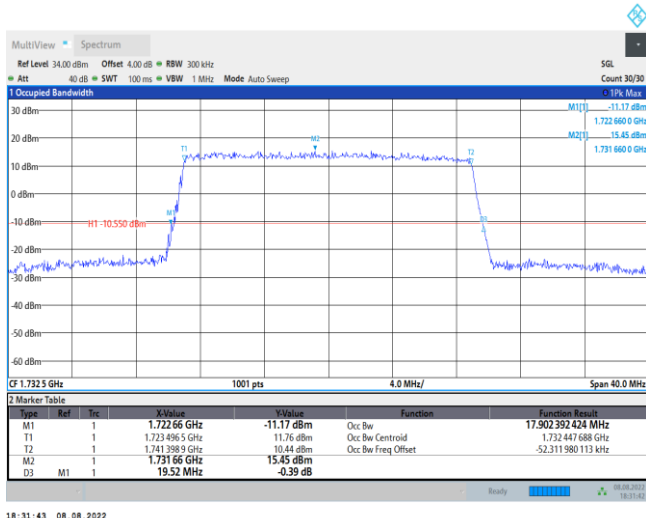


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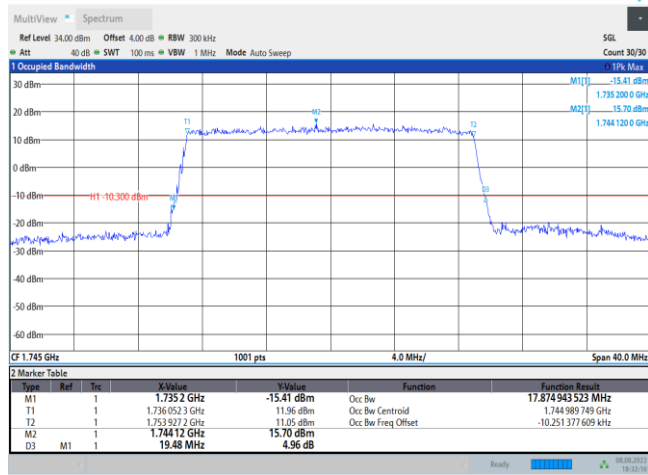


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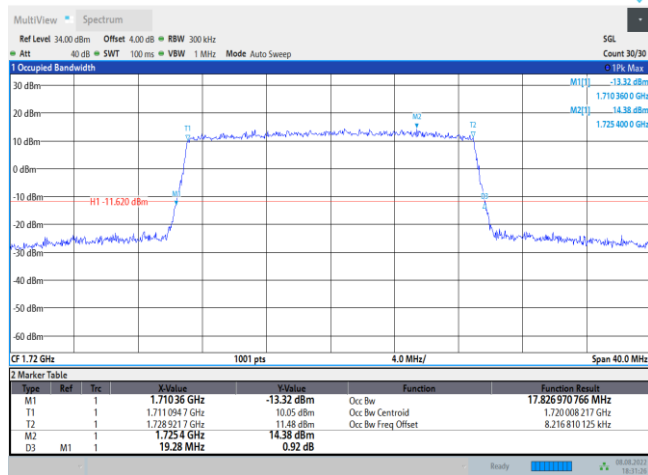
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Band4-20MHz-QPSK-20300-100RB#0



18:32:16 08.08.2022

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



18:31:27 08.08.2022

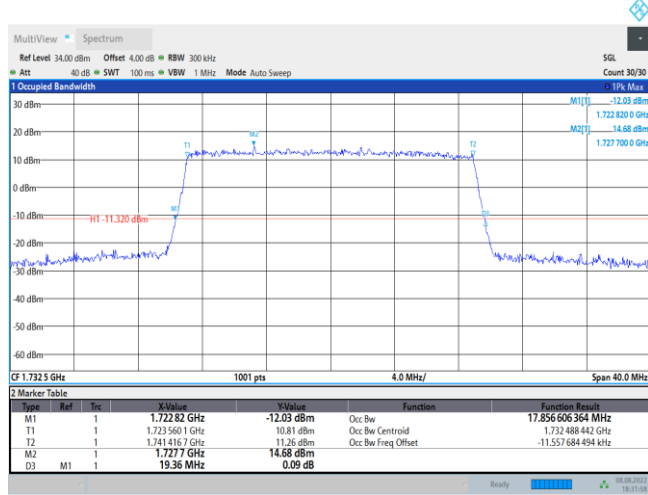


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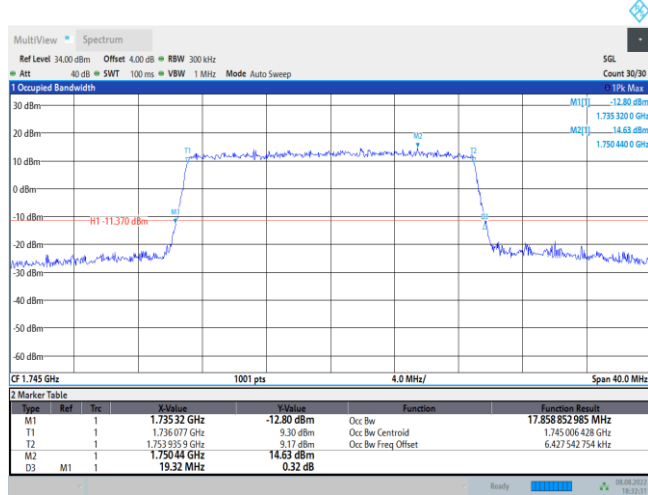
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Band4-20MHz-16QAM-20175-100RB#0



18:31:59 08.08.2022

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



18:32:32 08.08.2022

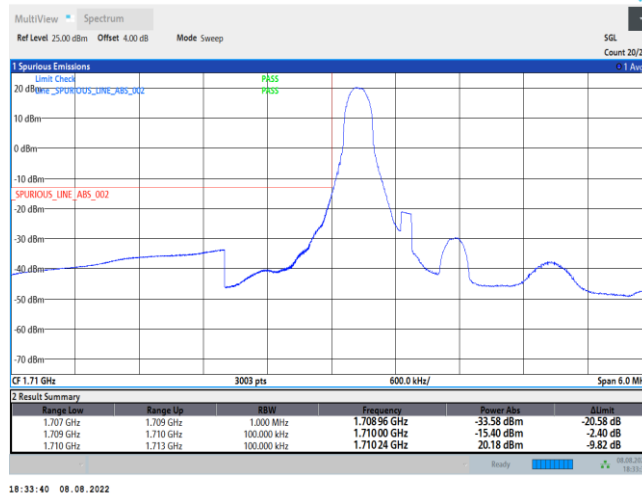


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## Band Edge

## Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



18:33:40 08.08.2022

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



18:34:13 08.08.2022



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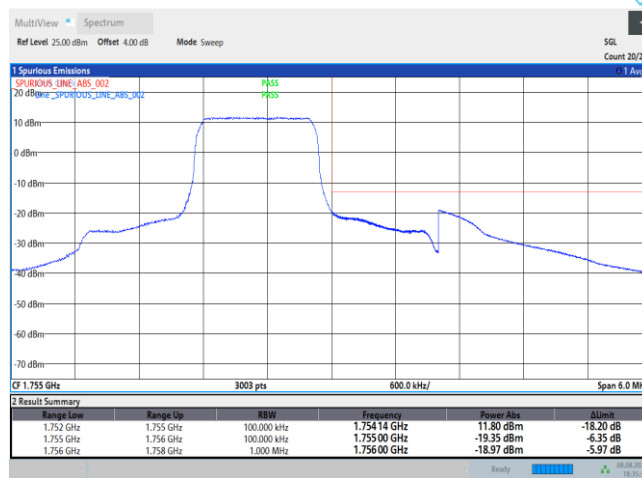
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Band4-1.4MHz-QPSK-20393-1RB#5



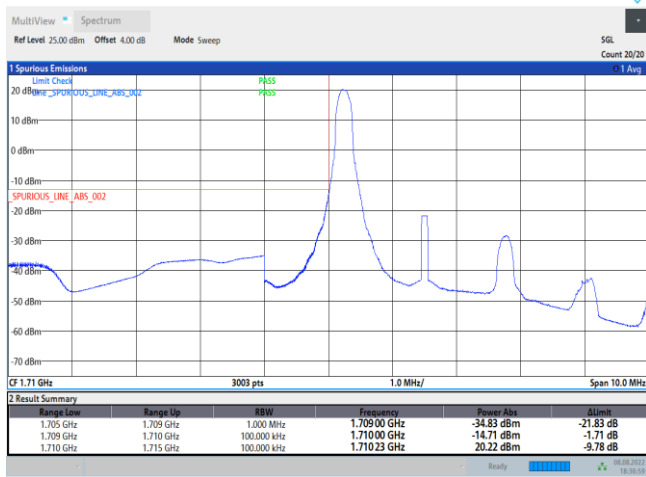
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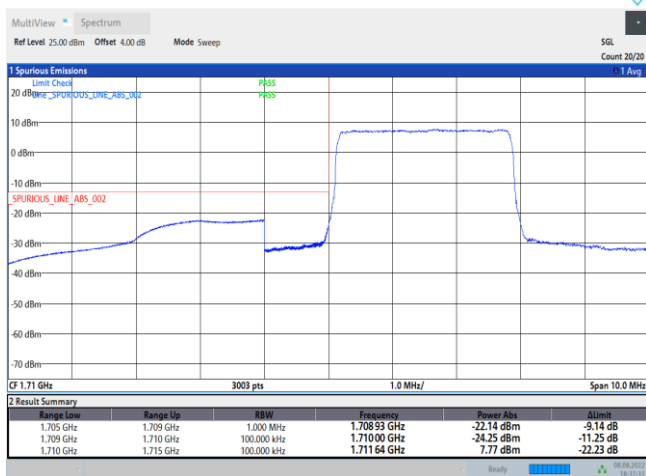
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Band4-3MHz-QPSK-19965-1RB#0



18:36:59 08.08.2022

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

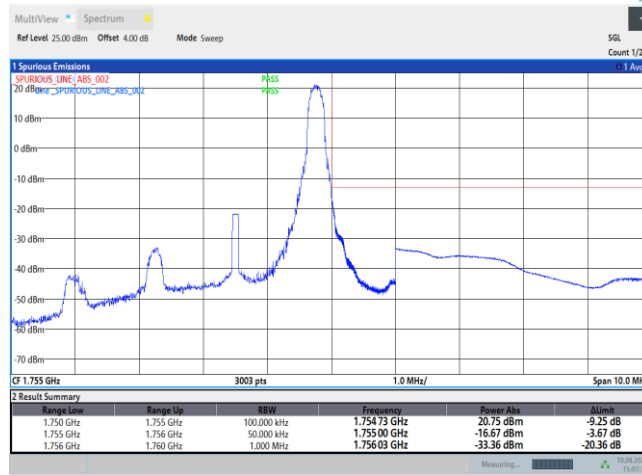


18:37:31 08.08.2022



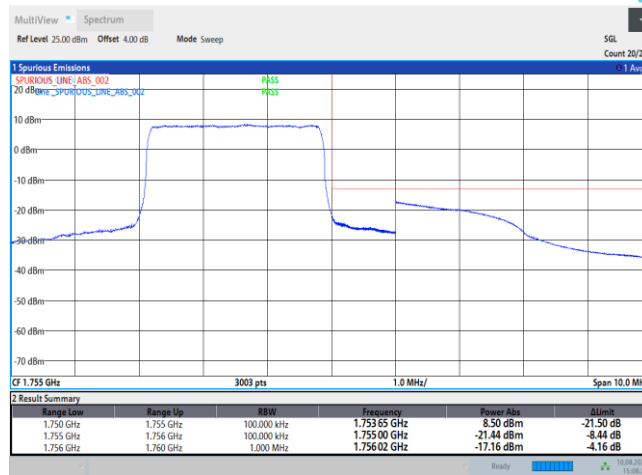
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Band4-3MHz-QPSK-20385-1RB#14



15:07:19 10.08.2022

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



15:08:25 10.08.2022



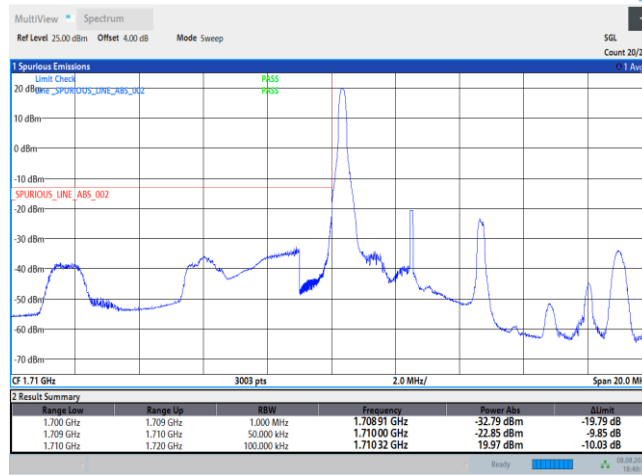
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Band4-5MHz-QPSK-19975-1RB#0



18:40:19 08.08.2022

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



18:40:51 08.08.2022



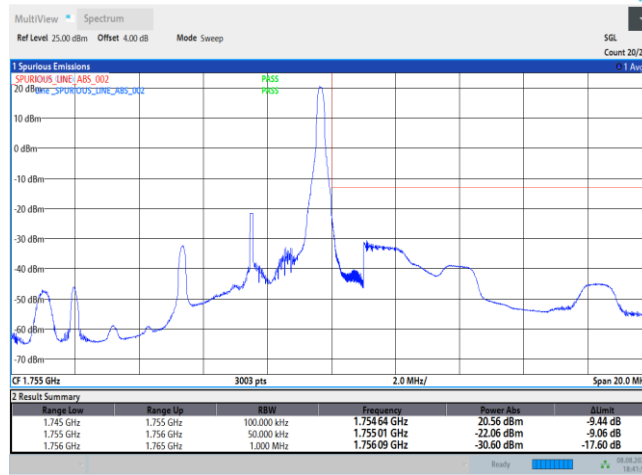
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Band4-5MHz-QPSK-20375-1RB#24



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



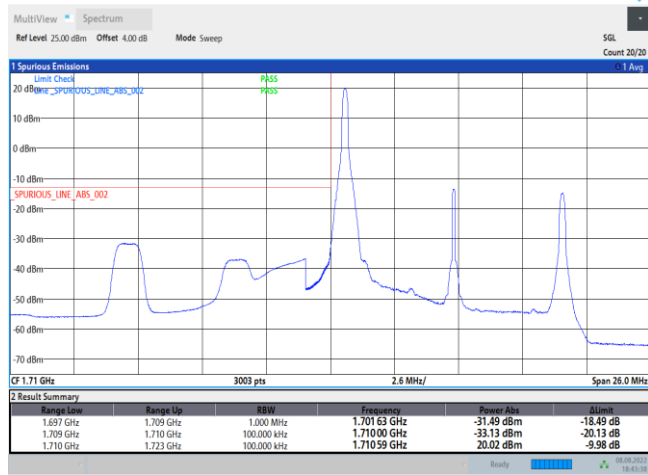
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Band4-10MHz-QPSK-20000-1RB#0



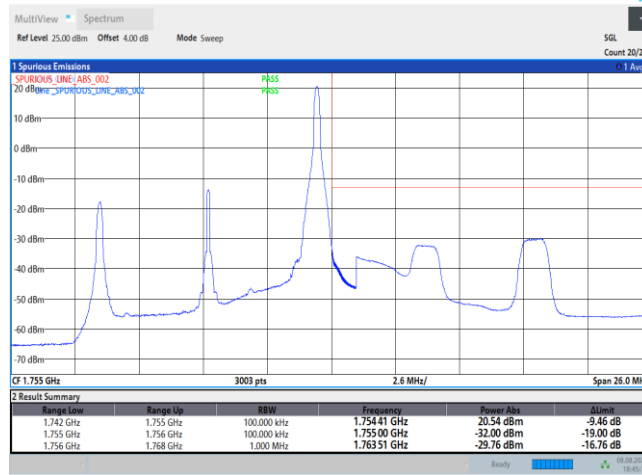
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Band4-10MHz-QPSK-20350-1RB#49



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



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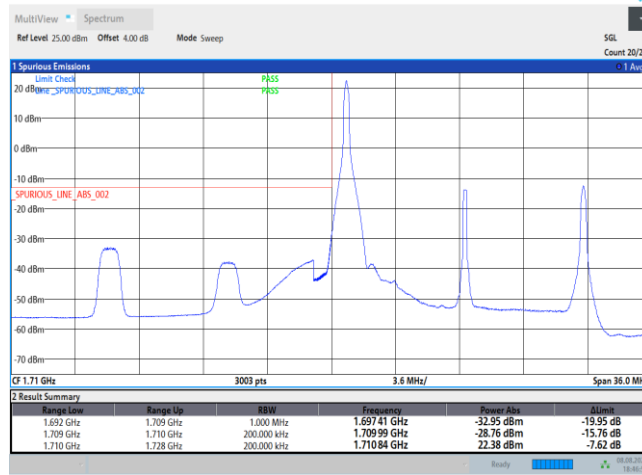
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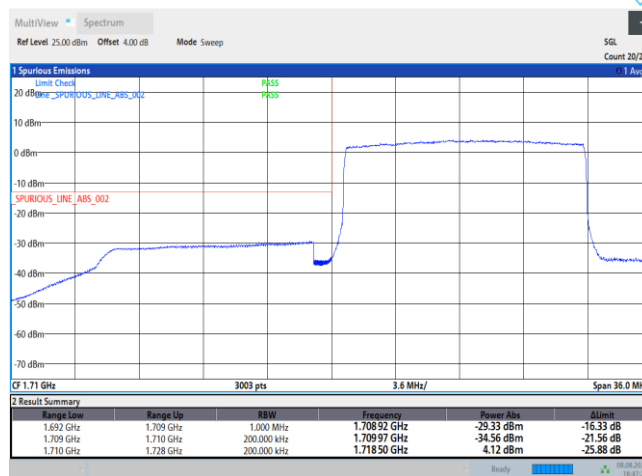
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Band4-15MHz-QPSK-20025-1RB#0



18:46:57 08.08.2022

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



18:47:30 08.08.2022



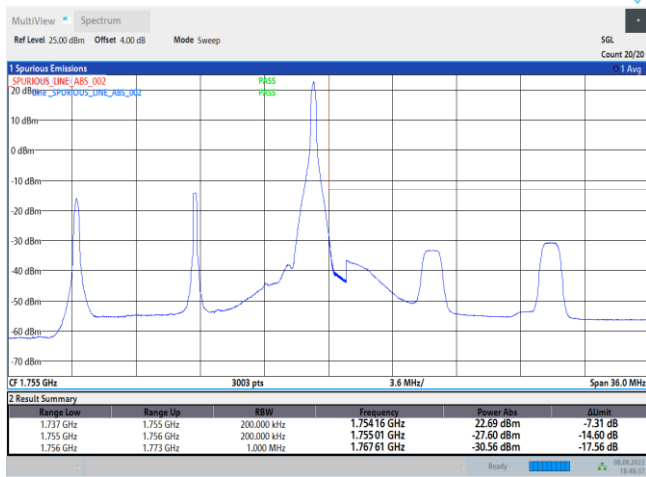
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Band4-15MHz-QPSK-20325-1RB#74



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

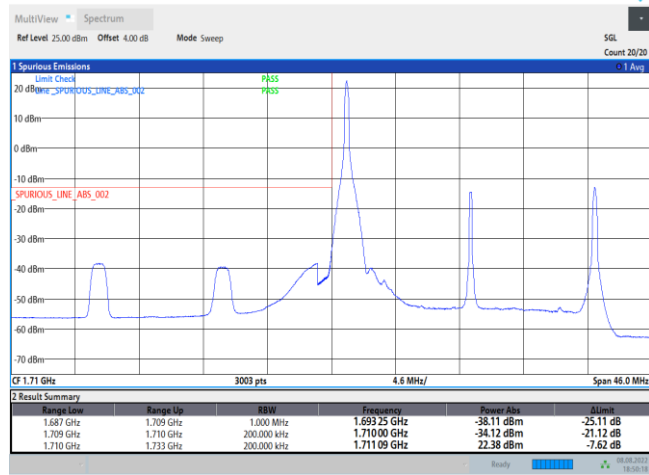


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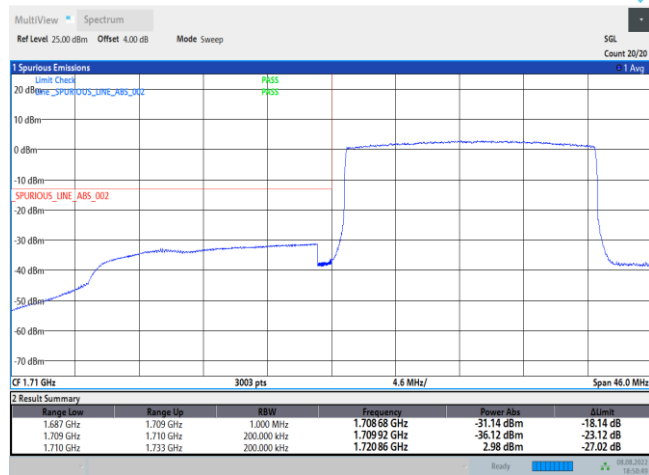
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Band4-20MHz-QPSK-20050-1RB#0



18:50:18 08.08.2022

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



18:50:50 08.08.2022



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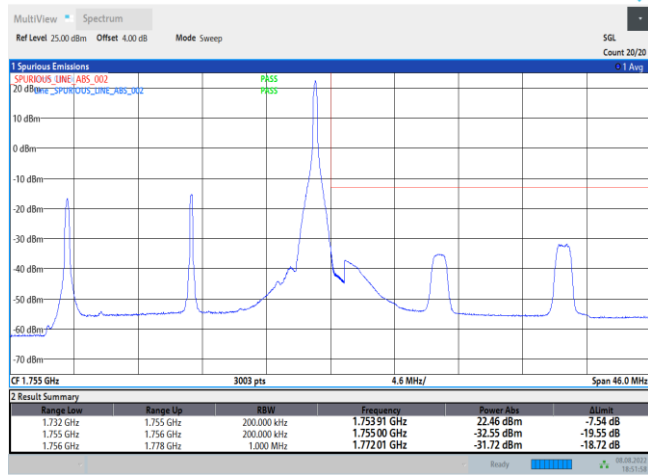
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Wireless Laboratory

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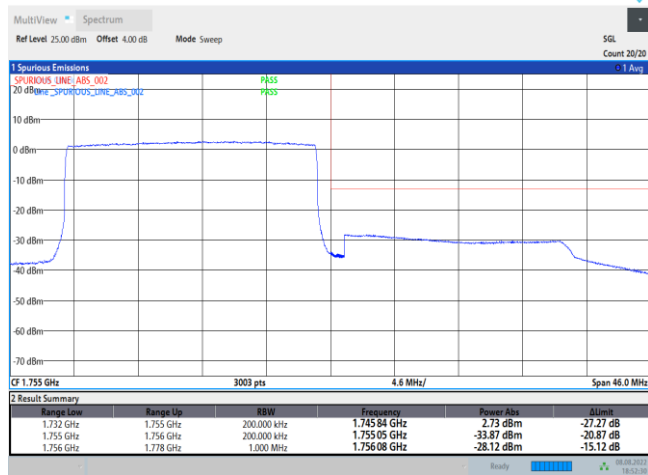


Band4-20MHz-QPSK-20300-1RB#99



18:51:59 08.08.2022

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



18:52:31 08.08.2022



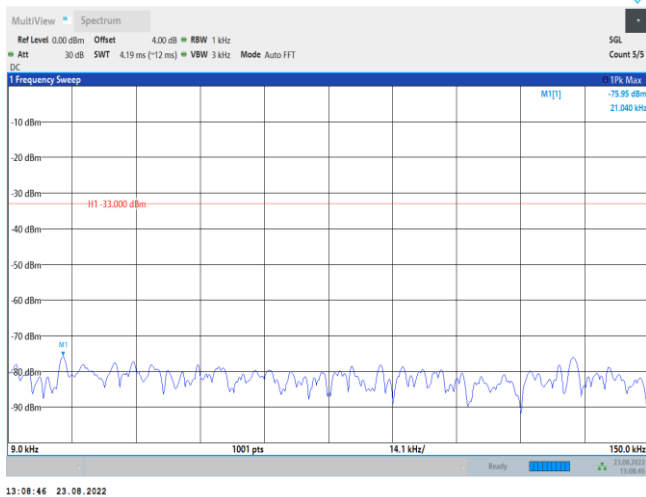
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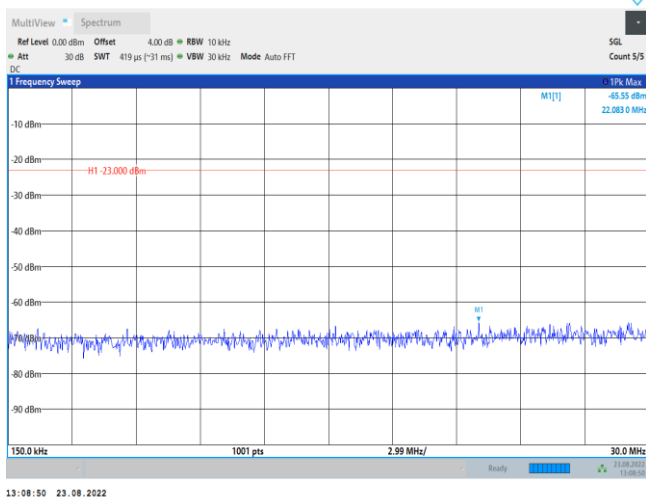
## Conducted Spurious Emission

### Test Graphs

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

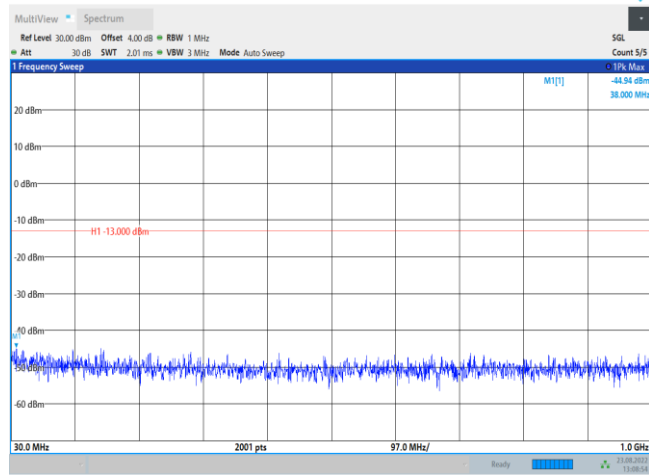


Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz



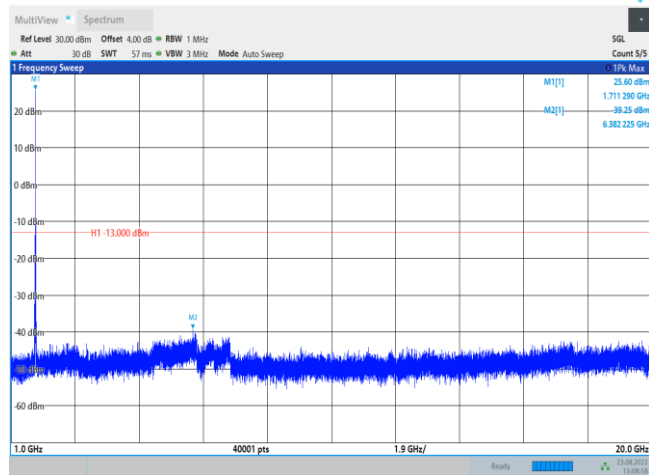
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



13:08:54 23.08.2022

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



13:08:58 23.08.2022



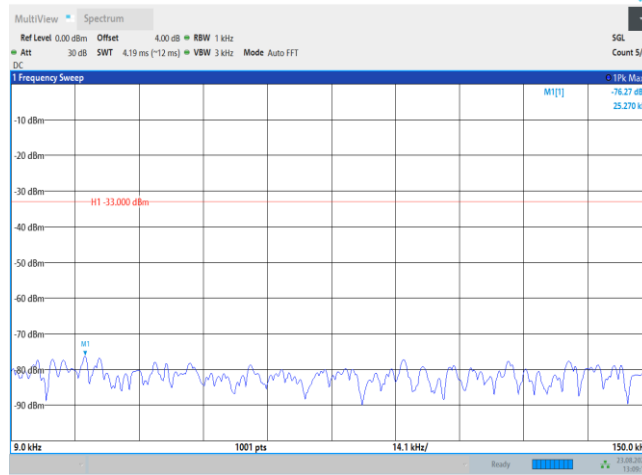
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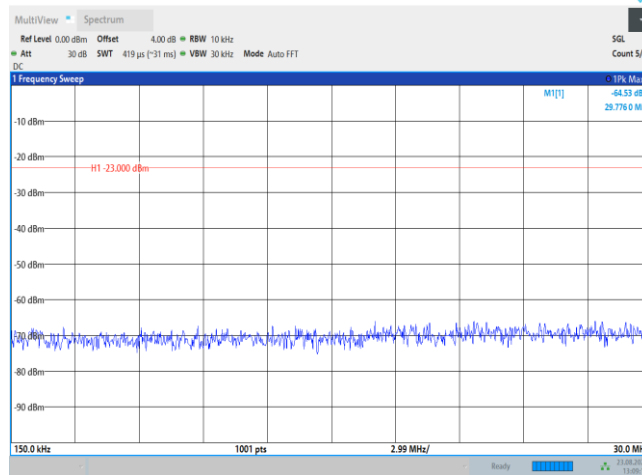
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



13:09:12 23.08.2022

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



13:09:16 23.08.2022

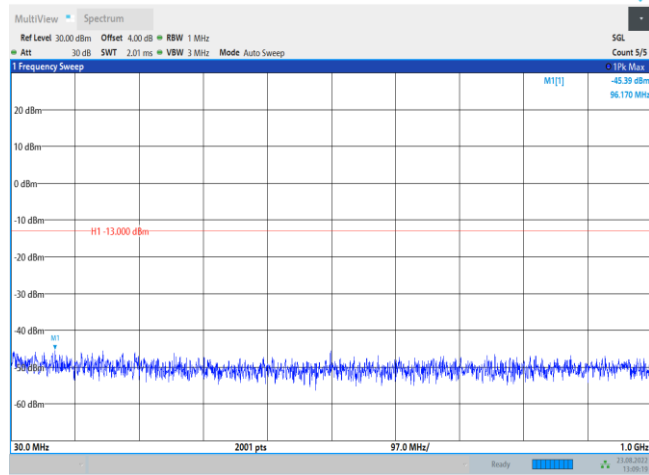


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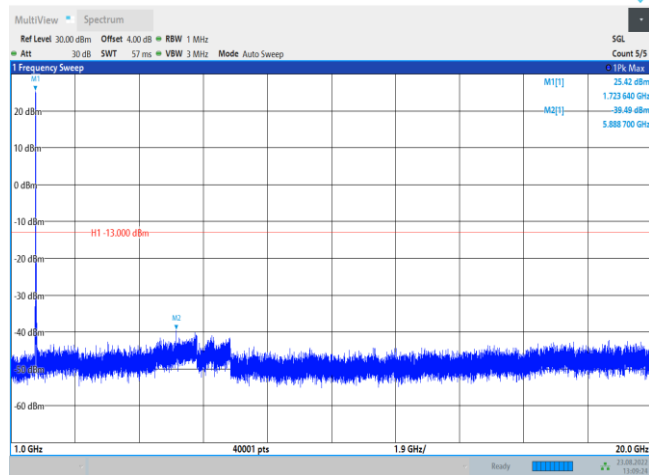
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



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



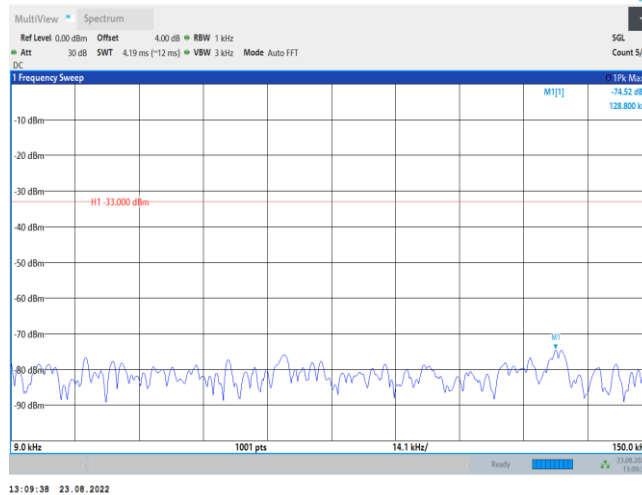
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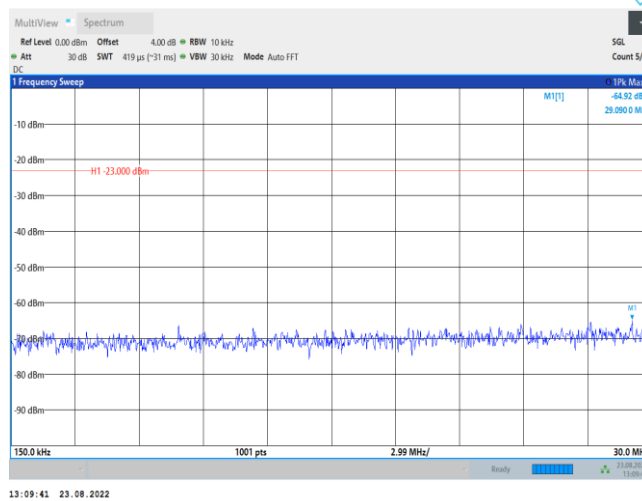
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



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

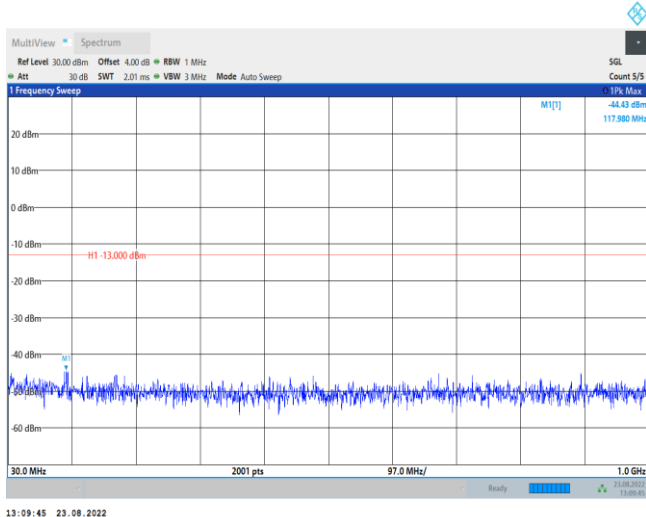


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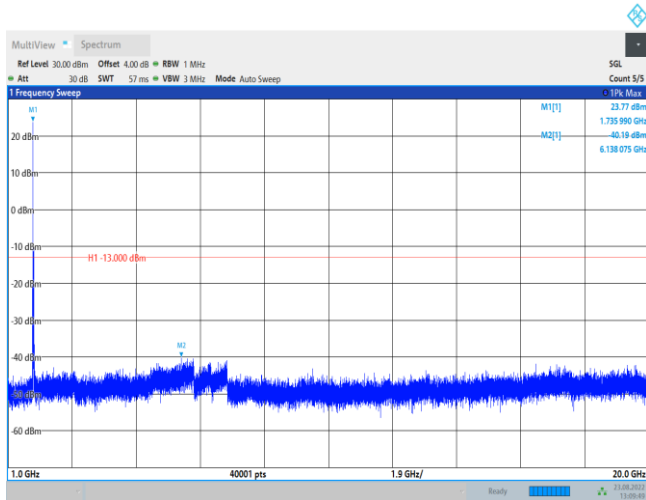
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



13:09:45 23.08.2022

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



13:09:50 23.08.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band4\_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	59.23	-46.28	29.45	-52.86	-13.00	39.86	216	0	Horizontal
2	5133.2700	46.58	-45.34	32.95	-61.07	-13.00	48.07	142	195	Horizontal
3	6844.3600	46.68	-44.14	35.89	-56.83	-13.00	43.83	136	8	Horizontal
4	8555.4500	42.13	-41.46	37.66	-56.93	-13.00	43.93	291	181	Horizontal
5	10266.5400	35.40	-39.23	38.83	-60.26	-13.00	47.26	145	0	Horizontal
6	11977.6300	29.45	-37.51	38.95	-64.38	-13.00	51.38	172	212	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	3422.1800	65.43	-46.28	29.45	-46.66	-13.00	33.66	291	269	Vertical
2	5133.2700	46.36	-45.34	32.95	-61.29	-13.00	48.29	148	89	Vertical
3	6844.3600	45.54	-44.14	35.89	-57.97	-13.00	44.97	175	0	Vertical
4	8555.4500	41.78	-41.46	37.66	-57.28	-13.00	44.28	136	0	Vertical
5	10266.5400	34.95	-39.23	38.83	-60.71	-13.00	47.71	261	269	Vertical
6	11977.6300	29.60	-37.51	38.95	-64.23	-13.00	51.23	122	286	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	54.52	-46.27	29.47	-57.54	-13.00	44.54	169	21	Horizontal
2	5170.7700	46.65	-45.31	32.97	-60.94	-13.00	47.94	194	30	Horizontal
3	6894.3600	45.62	-44.10	35.95	-57.79	-13.00	44.79	175	26	Horizontal
4	8617.9500	41.25	-41.40	37.78	-57.63	-13.00	44.63	128	270	Horizontal
5	10341.5400	34.93	-39.06	38.85	-60.54	-13.00	47.54	143	135	Horizontal
6	12065.1300	32.50	-37.44	39.02	-61.18	-13.00	48.18	160	16	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	62.12	-46.27	29.47	-49.94	-13.00	36.94	216	195	Vertical
2	5170.7700	47.44	-45.31	32.97	-60.15	-13.00	47.15	148	120	Vertical
3	6894.3600	46.72	-44.10	35.95	-56.69	-13.00	43.69	154	150	Vertical
4	8617.9500	41.35	-41.40	37.78	-57.53	-13.00	44.53	172	286	Vertical
5	10341.5400	34.55	-39.06	38.85	-60.92	-13.00	47.92	190	46	Vertical
6	12065.1300	32.79	-37.44	39.02	-60.89	-13.00	47.89	133	300	Vertical



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Test Band = LTE Band4\_ TM1

Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	59.18	-46.27	29.50	-52.85	-13.00	39.85	221	347	Horizontal
2	5208.2700	47.78	-45.26	32.98	-59.76	-13.00	46.76	236	0	Horizontal
3	6944.3600	44.70	-43.85	36.01	-58.40	-13.00	45.40	261	1	Horizontal
4	8680.4500	41.53	-41.62	37.88	-57.47	-13.00	44.47	148	64	Horizontal
5	10416.5400	34.30	-38.97	38.88	-61.06	-13.00	48.06	175	273	Horizontal
6	12152.6300	32.59	-37.42	39.09	-61.00	-13.00	48.00	190	242	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	3472.1800	67.17	-46.27	29.50	-44.86	-13.00	31.86	129	270	Vertical
2	5208.2700	47.28	-45.26	32.98	-60.26	-13.00	47.26	145	150	Vertical
3	6944.3600	46.73	-43.85	36.01	-56.37	-13.00	43.37	175	0	Vertical
4	8680.4500	41.16	-41.62	37.88	-57.84	-13.00	44.84	142	344	Vertical
5	10416.5400	34.62	-38.97	38.88	-60.74	-13.00	47.74	236	330	Vertical
6	12152.6300	32.75	-37.42	39.09	-60.84	-13.00	47.84	211	224	Vertical

Remark:

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

Level = Reading Level(dBuV) + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

dBuV=dbm+95.26



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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	2.10	0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	2.10	0.001212	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	1.00	0.000577	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	2.40	0.001385	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	0.80	0.000462	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	1.40	0.000808	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	1.50	0.000866	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	1.70	0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	1.90	0.001097	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	2.00	0.001154	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	1.40	0.000808	PASS

---End of Attachment---



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