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# Appendix B.6

## LTE Band 25



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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
Band25	1.4MHz	QPSK	26047	1RB#0	22.14	24.12	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	22.76	24.74	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	21.96	23.94	33	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	21.48	23.46	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	21.98	23.96	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	22.67	24.65	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	21.88	23.86	33	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	21.4	23.38	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	21.69	23.67	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	22.41	24.39	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	21.65	23.63	33	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	21.13	23.11	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	21.27	23.25	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	21.9	23.88	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	21.03	23.01	33	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	20.46	22.44	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	20.82	22.8	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	21.63	23.61	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	20.76	22.74	33	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	20.4	22.38	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	20.77	22.75	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	21.55	23.53	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	20.78	22.76	33	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	20.17	22.15	33	PASS
Band25	3MHz	QPSK	26055	1RB#0	21.65	23.63	33	PASS
Band25	3MHz	QPSK	26055	1RB#8	23	24.98	33	PASS



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Band25	3MHz	QPSK	26055	1RB#14	21.35	23.33	33	PASS
Band25	3MHz	QPSK	26055	15RB#0	21.55	23.53	33	PASS
Band25	3MHz	QPSK	26365	1RB#0	21.59	23.57	33	PASS
Band25	3MHz	QPSK	26365	1RB#8	22.88	24.86	33	PASS
Band25	3MHz	QPSK	26365	1RB#14	21.24	23.22	33	PASS
Band25	3MHz	QPSK	26365	15RB#0	21.43	23.41	33	PASS
Band25	3MHz	QPSK	26675	1RB#0	21.28	23.26	33	PASS
Band25	3MHz	QPSK	26675	1RB#8	22.56	24.54	33	PASS
Band25	3MHz	QPSK	26675	1RB#14	21.03	23.01	33	PASS
Band25	3MHz	QPSK	26675	15RB#0	21.15	23.13	33	PASS
Band25	3MHz	16QAM	26055	1RB#0	20.78	22.76	33	PASS
Band25	3MHz	16QAM	26055	1RB#8	22.12	24.1	33	PASS
Band25	3MHz	16QAM	26055	1RB#14	20.44	22.42	33	PASS
Band25	3MHz	16QAM	26055	15RB#0	20.6	22.58	33	PASS
Band25	3MHz	16QAM	26365	1RB#0	20.44	22.42	33	PASS
Band25	3MHz	16QAM	26365	1RB#8	21.84	23.82	33	PASS
Band25	3MHz	16QAM	26365	1RB#14	20.15	22.13	33	PASS
Band25	3MHz	16QAM	26365	15RB#0	20.33	22.31	33	PASS
Band25	3MHz	16QAM	26675	1RB#0	20.3	22.28	33	PASS
Band25	3MHz	16QAM	26675	1RB#8	21.71	23.69	33	PASS
Band25	3MHz	16QAM	26675	1RB#14	20.19	22.17	33	PASS
Band25	3MHz	16QAM	26675	15RB#0	20.16	22.14	33	PASS
Band25	5MHz	QPSK	26065	1RB#0	21.65	23.63	33	PASS
Band25	5MHz	QPSK	26065	1RB#12	22.36	24.34	33	PASS
Band25	5MHz	QPSK	26065	1RB#24	21.38	23.36	33	PASS
Band25	5MHz	QPSK	26065	25RB#0	21.43	23.41	33	PASS
Band25	5MHz	QPSK	26365	1RB#0	21.67	23.65	33	PASS
Band25	5MHz	QPSK	26365	1RB#12	22.33	24.31	33	PASS
Band25	5MHz	QPSK	26365	1RB#24	21.36	23.34	33	PASS
Band25	5MHz	QPSK	26365	25RB#0	21.4	23.38	33	PASS
Band25	5MHz	QPSK	26665	1RB#0	21.51	23.49	33	PASS
Band25	5MHz	QPSK	26665	1RB#12	22.22	24.2	33	PASS



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Band25	5MHz	QPSK	26665	1RB#24	21.22	23.2	33	PASS
Band25	5MHz	QPSK	26665	25RB#0	21.17	23.15	33	PASS
Band25	5MHz	16QAM	26065	1RB#0	20.62	22.6	33	PASS
Band25	5MHz	16QAM	26065	1RB#12	21.33	23.31	33	PASS
Band25	5MHz	16QAM	26065	1RB#24	20.29	22.27	33	PASS
Band25	5MHz	16QAM	26065	25RB#0	20.53	22.51	33	PASS
Band25	5MHz	16QAM	26365	1RB#0	20.77	22.75	33	PASS
Band25	5MHz	16QAM	26365	1RB#12	21.52	23.5	33	PASS
Band25	5MHz	16QAM	26365	1RB#24	20.55	22.53	33	PASS
Band25	5MHz	16QAM	26365	25RB#0	20.38	22.36	33	PASS
Band25	5MHz	16QAM	26665	1RB#0	20.32	22.3	33	PASS
Band25	5MHz	16QAM	26665	1RB#12	21.18	23.16	33	PASS
Band25	5MHz	16QAM	26665	1RB#24	20.21	22.19	33	PASS
Band25	5MHz	16QAM	26665	25RB#0	20.19	22.17	33	PASS
Band25	10MHz	QPSK	26090	1RB#0	21.66	23.64	33	PASS
Band25	10MHz	QPSK	26090	1RB#24	22.45	24.43	33	PASS
Band25	10MHz	QPSK	26090	1RB#49	21.32	23.3	33	PASS
Band25	10MHz	QPSK	26090	50RB#0	21.5	23.48	33	PASS
Band25	10MHz	QPSK	26365	1RB#0	21.84	23.82	33	PASS
Band25	10MHz	QPSK	26365	1RB#24	22.54	24.52	33	PASS
Band25	10MHz	QPSK	26365	1RB#49	21.22	23.2	33	PASS
Band25	10MHz	QPSK	26365	50RB#0	21.52	23.5	33	PASS
Band25	10MHz	QPSK	26640	1RB#0	21.86	23.84	33	PASS
Band25	10MHz	QPSK	26640	1RB#24	22.27	24.25	33	PASS
Band25	10MHz	QPSK	26640	1RB#49	21.06	23.04	33	PASS
Band25	10MHz	QPSK	26640	50RB#0	21.28	23.26	33	PASS
Band25	10MHz	16QAM	26090	1RB#0	21.11	23.09	33	PASS
Band25	10MHz	16QAM	26090	1RB#24	21.82	23.8	33	PASS
Band25	10MHz	16QAM	26090	1RB#49	20.72	22.7	33	PASS
Band25	10MHz	16QAM	26090	27RB#0	20.94	22.92	33	PASS
Band25	10MHz	16QAM	26365	1RB#0	20.9	22.88	33	PASS
Band25	10MHz	16QAM	26365	1RB#24	21.62	23.6	33	PASS



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Band25	10MHz	16QAM	26365	1RB#49	20.22	22.2	33	PASS
Band25	10MHz	16QAM	26365	27RB#0	20.82	22.8	33	PASS
Band25	10MHz	16QAM	26640	1RB#0	20.69	22.67	33	PASS
Band25	10MHz	16QAM	26640	1RB#24	21.19	23.17	33	PASS
Band25	10MHz	16QAM	26640	1RB#49	19.95	21.93	33	PASS
Band25	10MHz	16QAM	26640	27RB#0	20.49	22.47	33	PASS
Band25	15MHz	QPSK	26115	1RB#0	22.26	24.24	33	PASS
Band25	15MHz	QPSK	26115	1RB#38	22.27	24.25	33	PASS
Band25	15MHz	QPSK	26115	1RB#74	21.79	23.77	33	PASS
Band25	15MHz	QPSK	26115	75RB#0	21.46	23.44	33	PASS
Band25	15MHz	QPSK	26365	1RB#0	22.7	24.68	33	PASS
Band25	15MHz	QPSK	26365	1RB#38	22.42	24.4	33	PASS
Band25	15MHz	QPSK	26365	1RB#74	21.74	23.72	33	PASS
Band25	15MHz	QPSK	26365	75RB#0	21.55	23.53	33	PASS
Band25	15MHz	QPSK	26615	1RB#0	23.07	25.05	33	PASS
Band25	15MHz	QPSK	26615	1RB#38	22.26	24.24	33	PASS
Band25	15MHz	QPSK	26615	1RB#74	21.55	23.53	33	PASS
Band25	15MHz	QPSK	26615	75RB#0	21.49	23.47	33	PASS
Band25	15MHz	16QAM	26115	1RB#0	21.51	23.49	33	PASS
Band25	15MHz	16QAM	26115	1RB#38	21.54	23.52	33	PASS
Band25	15MHz	16QAM	26115	1RB#74	21.09	23.07	33	PASS
Band25	15MHz	16QAM	26115	27RB#0	20.69	22.67	33	PASS
Band25	15MHz	16QAM	26365	1RB#0	21.94	23.92	33	PASS
Band25	15MHz	16QAM	26365	1RB#38	21.68	23.66	33	PASS
Band25	15MHz	16QAM	26365	1RB#74	21.04	23.02	33	PASS
Band25	15MHz	16QAM	26365	27RB#0	20.78	22.76	33	PASS
Band25	15MHz	16QAM	26615	1RB#0	22.09	24.07	33	PASS
Band25	15MHz	16QAM	26615	1RB#38	21.14	23.12	33	PASS
Band25	15MHz	16QAM	26615	1RB#74	20.48	22.46	33	PASS
Band25	15MHz	16QAM	26615	27RB#0	20.98	22.96	33	PASS
Band25	20MHz	QPSK	26140	1RB#0	22.24	24.22	33	PASS
Band25	20MHz	QPSK	26140	1RB#49	22.77	24.75	33	PASS



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Band25	20MHz	QPSK	26140	1RB#99	21.46	23.44	33	PASS
Band25	20MHz	QPSK	26140	100RB#0	21.43	23.41	33	PASS
Band25	20MHz	QPSK	26365	1RB#0	22.76	24.74	33	PASS
Band25	20MHz	QPSK	26365	1RB#49	22.73	24.71	33	PASS
Band25	20MHz	QPSK	26365	1RB#99	21.52	23.5	33	PASS
Band25	20MHz	QPSK	26365	100RB#0	21.49	23.47	33	PASS
Band25	20MHz	QPSK	26590	1RB#0	22.92	24.9	33	PASS
Band25	20MHz	QPSK	26590	1RB#49	22.43	24.41	33	PASS
Band25	20MHz	QPSK	26590	1RB#99	20.88	22.86	33	PASS
Band25	20MHz	QPSK	26590	100RB#0	21.4	23.38	33	PASS
Band25	20MHz	16QAM	26140	1RB#0	21.27	23.25	33	PASS
Band25	20MHz	16QAM	26140	1RB#49	21.81	23.79	33	PASS
Band25	20MHz	16QAM	26140	1RB#99	20.51	22.49	33	PASS
Band25	20MHz	16QAM	26140	27RB#0	20.5	22.48	33	PASS
Band25	20MHz	16QAM	26365	1RB#0	21.91	23.89	33	PASS
Band25	20MHz	16QAM	26365	1RB#49	22.02	24	33	PASS
Band25	20MHz	16QAM	26365	1RB#99	20.75	22.73	33	PASS
Band25	20MHz	16QAM	26365	27RB#0	20.85	22.83	33	PASS
Band25	20MHz	16QAM	26590	1RB#0	22.13	24.11	33	PASS
Band25	20MHz	16QAM	26590	1RB#49	21.68	23.66	33	PASS
Band25	20MHz	16QAM	26590	1RB#99	20.02	22	33	PASS
Band25	20MHz	16QAM	26590	27RB#0	21.11	23.09	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

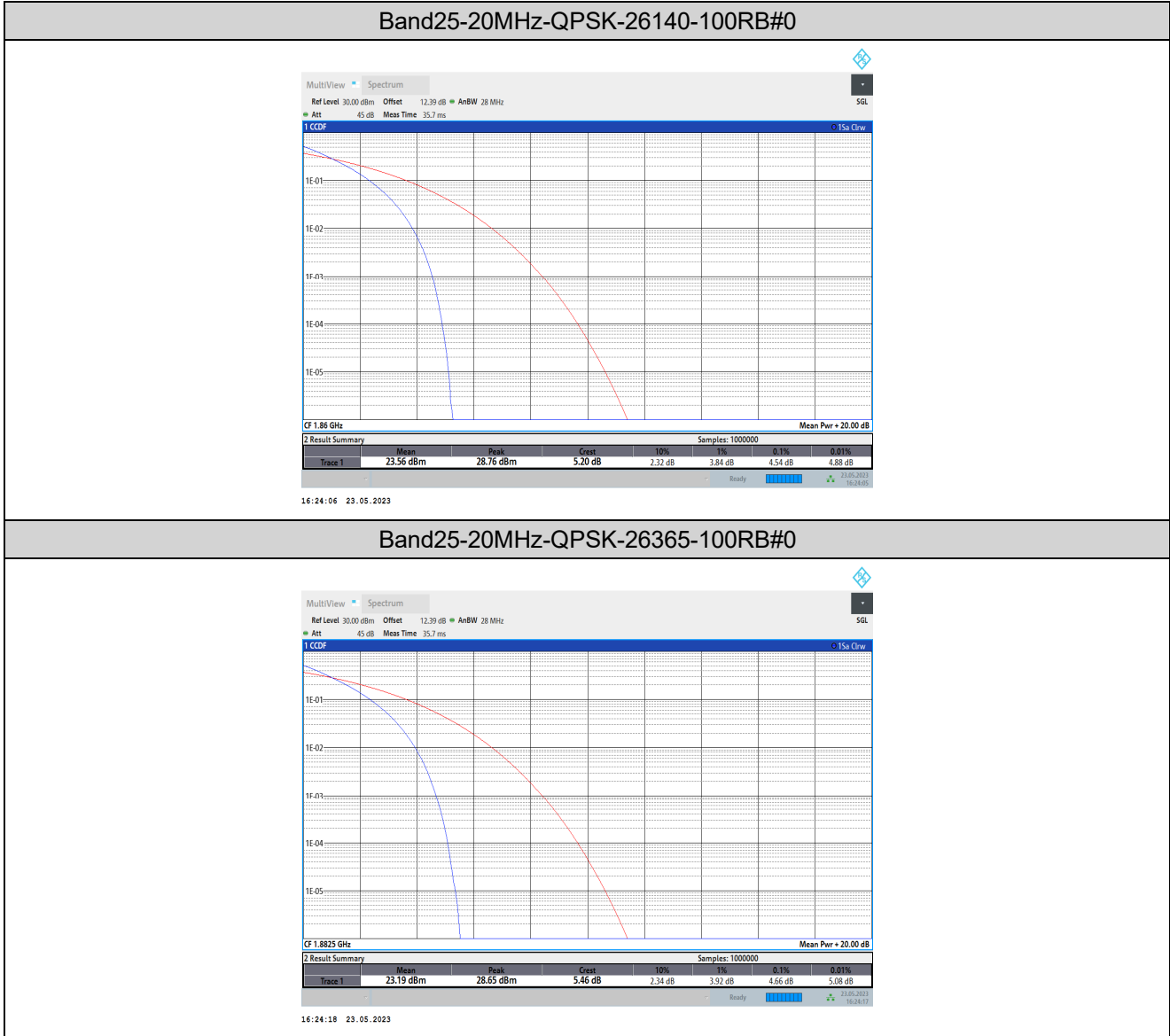
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	20MHz	QPSK	26140	100RB#0	4.54	13	PASS
Band25	20MHz	QPSK	26365	100RB#0	4.66	13	PASS
Band25	20MHz	QPSK	26590	100RB#0	4.92	13	PASS
Band25	20MHz	16QAM	26140	27RB#0	5.28	13	PASS
Band25	20MHz	16QAM	26365	27RB#0	4.74	13	PASS
Band25	20MHz	16QAM	26590	27RB#0	4.78	13	PASS



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Test Graphs

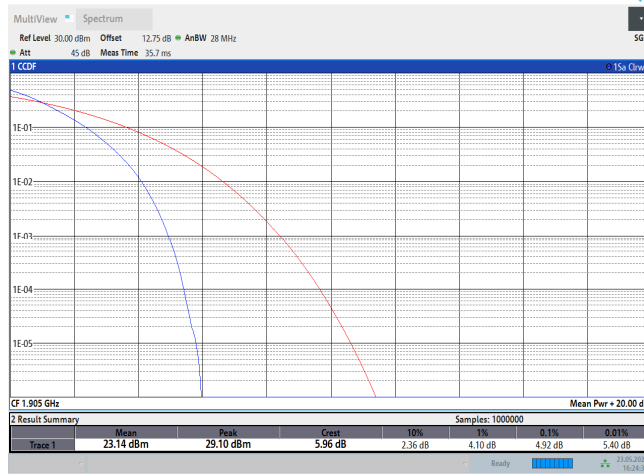


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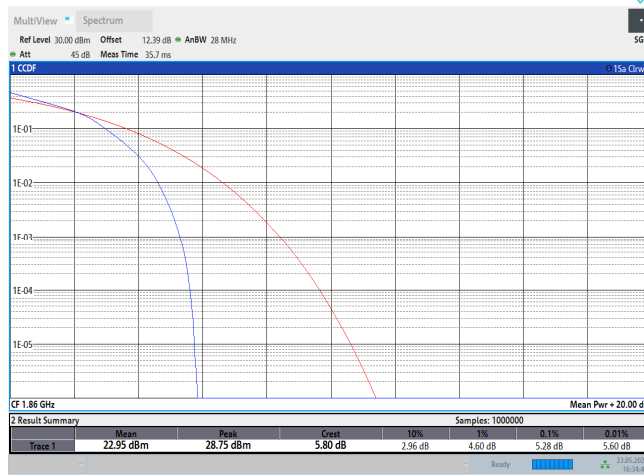


Band25-20MHz-QPSK-26590-100RB#0



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Band25-20MHz-16QAM-26140-27RB#0



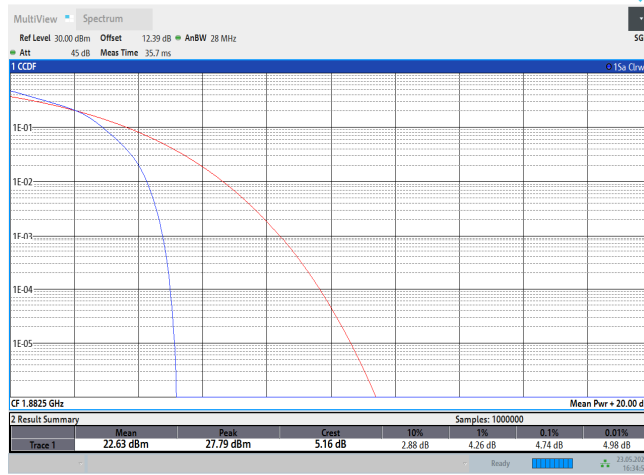
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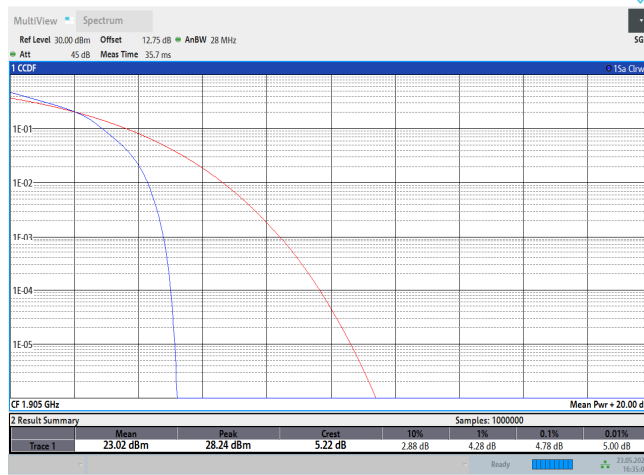
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Band25-20MHz-16QAM-26365-27RB#0



16:34:53 23.05.2023

Band25-20MHz-16QAM-26590-27RB#0



16:35:06 23.05.2023



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 Rev.: 01  
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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band25	20MHz	QPSK	26365	100RB#0	PASS	PASS
Band25	20MHz	16QAM	26365	27RB#0	PASS	PASS



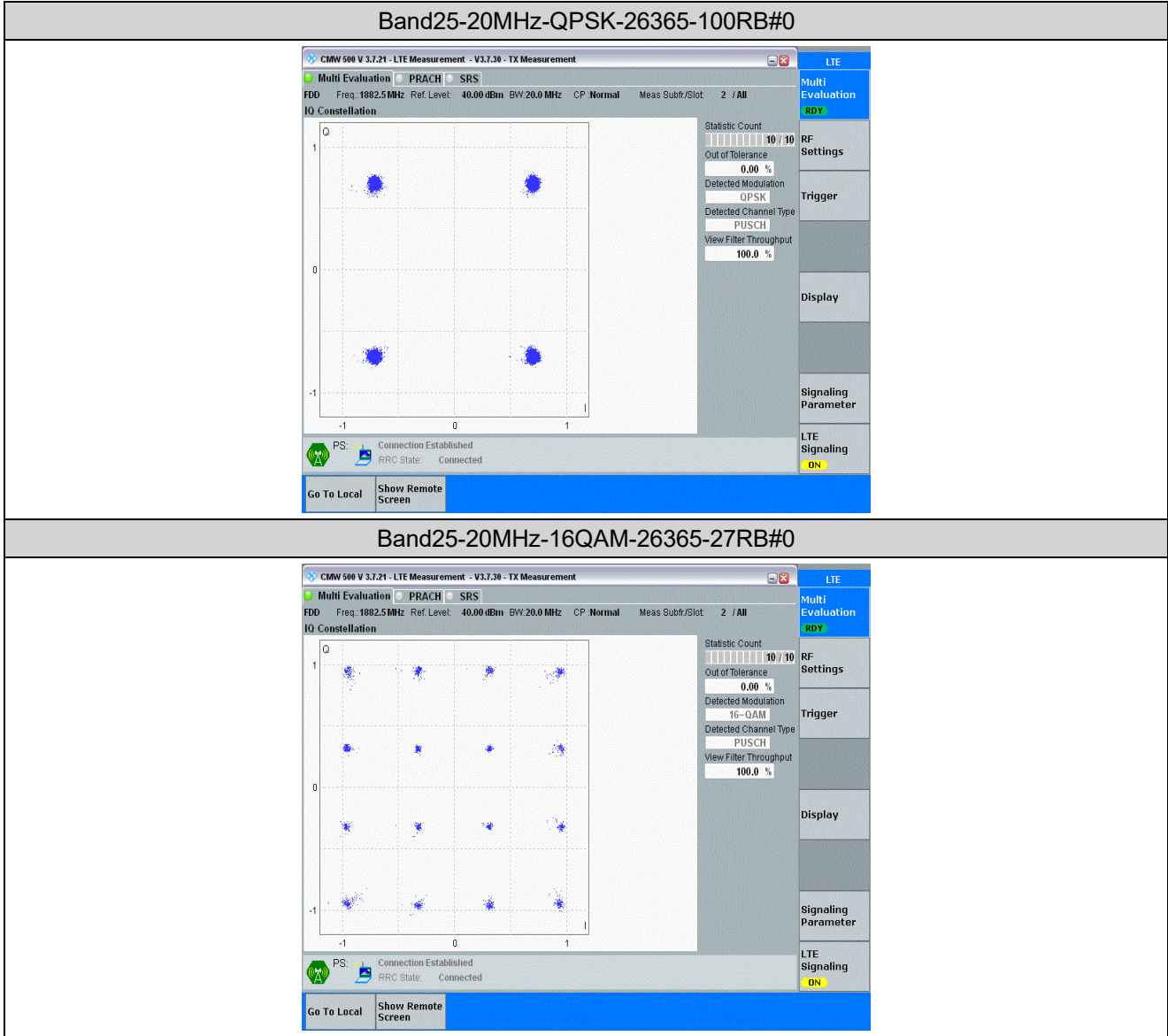
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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band25	1.4MHz	QPSK	26047	6RB#0	1.095	1.47	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.098	1.50	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.1	1.53	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	1.108	1.53	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	1.11	1.52	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	1.111	1.52	PASS
Band25	3MHz	QPSK	26055	15RB#0	2.684	3.13	PASS
Band25	3MHz	QPSK	26365	15RB#0	2.684	3.14	PASS
Band25	3MHz	QPSK	26675	15RB#0	2.689	3.10	PASS
Band25	3MHz	16QAM	26055	15RB#0	2.69	3.14	PASS
Band25	3MHz	16QAM	26365	15RB#0	2.692	3.13	PASS
Band25	3MHz	16QAM	26675	15RB#0	2.687	3.13	PASS
Band25	5MHz	QPSK	26065	25RB#0	4.466	4.99	PASS
Band25	5MHz	QPSK	26365	25RB#0	4.464	5.00	PASS
Band25	5MHz	QPSK	26665	25RB#0	4.465	4.97	PASS
Band25	5MHz	16QAM	26065	25RB#0	4.454	4.99	PASS
Band25	5MHz	16QAM	26365	25RB#0	4.458	4.96	PASS
Band25	5MHz	16QAM	26665	25RB#0	4.454	4.97	PASS
Band25	10MHz	QPSK	26090	50RB#0	8.897	9.54	PASS
Band25	10MHz	QPSK	26365	50RB#0	8.895	9.56	PASS
Band25	10MHz	QPSK	26640	50RB#0	8.897	9.60	PASS
Band25	10MHz	16QAM	26090	27RB#0	4.94	7.18	PASS
Band25	10MHz	16QAM	26365	27RB#0	4.941	6.86	PASS
Band25	10MHz	16QAM	26640	27RB#0	4.95	6.80	PASS
Band25	15MHz	QPSK	26115	75RB#0	13.557	16.71	PASS
Band25	15MHz	QPSK	26365	75RB#0	13.558	16.62	PASS
Band25	15MHz	QPSK	26615	75RB#0	13.573	16.92	PASS
Band25	15MHz	16QAM	26115	27RB#0	6.053	10.92	PASS
Band25	15MHz	16QAM	26365	27RB#0	5.985	10.59	PASS
Band25	15MHz	16QAM	26615	27RB#0	5.74	8.88	PASS
Band25	20MHz	QPSK	26140	100RB#0	17.929	20.80	PASS



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Band25	20MHz	QPSK	26365	100RB#0	17.973	21.36	PASS
Band25	20MHz	QPSK	26590	100RB#0	17.931	21.04	PASS
Band25	20MHz	16QAM	26140	27RB#0	6.658	10.56	PASS
Band25	20MHz	16QAM	26365	27RB#0	6.32	10.00	PASS
Band25	20MHz	16QAM	26590	27RB#0	6.152	9.48	PASS

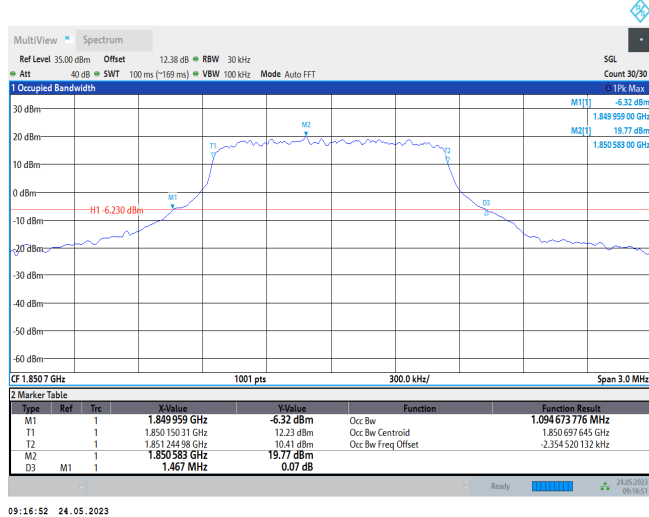


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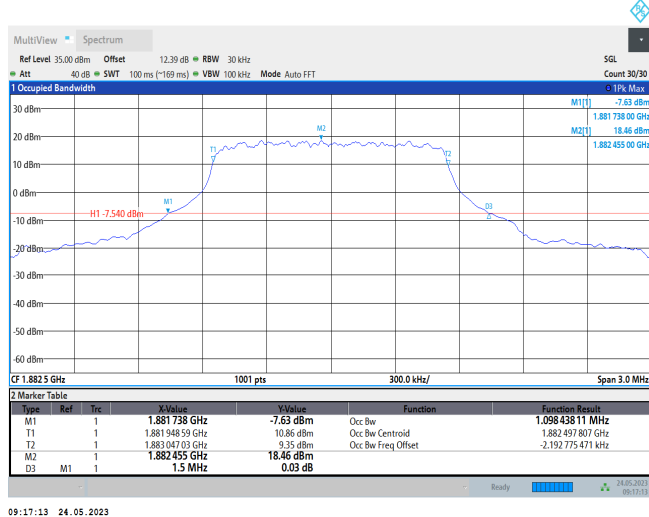
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Test Graphs

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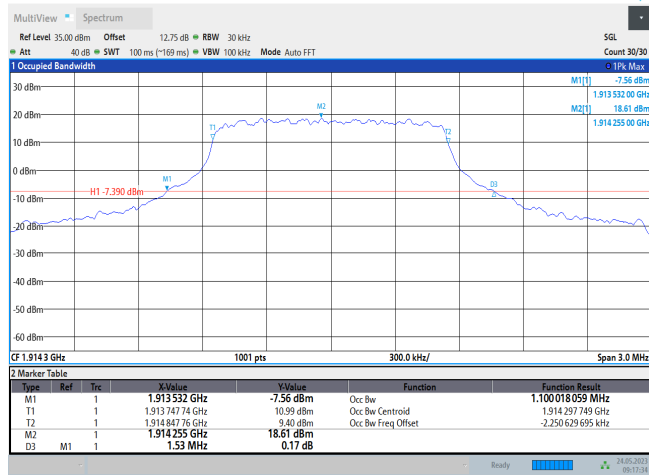


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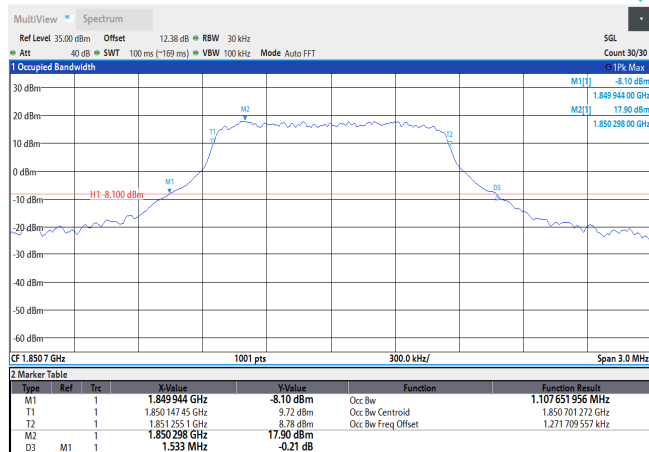
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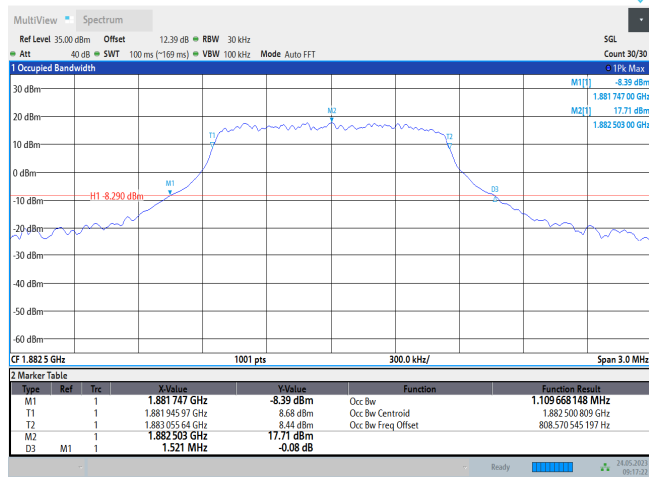


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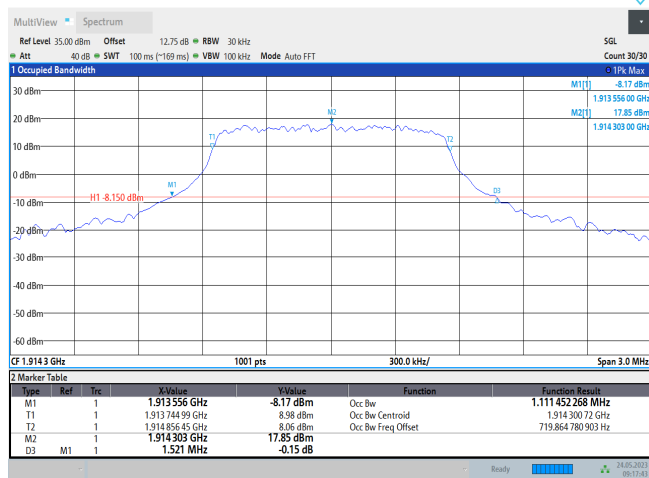


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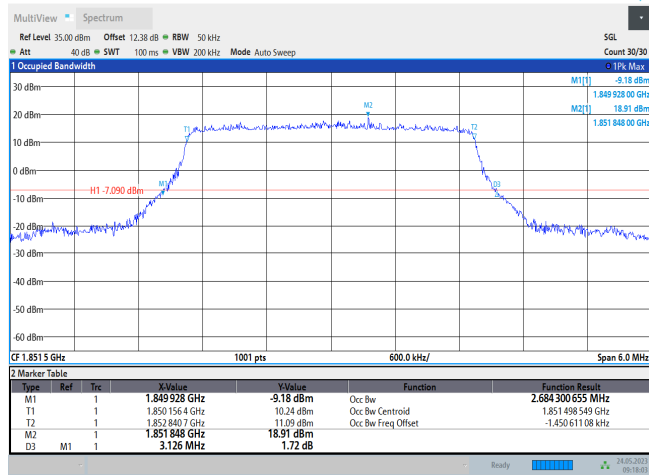


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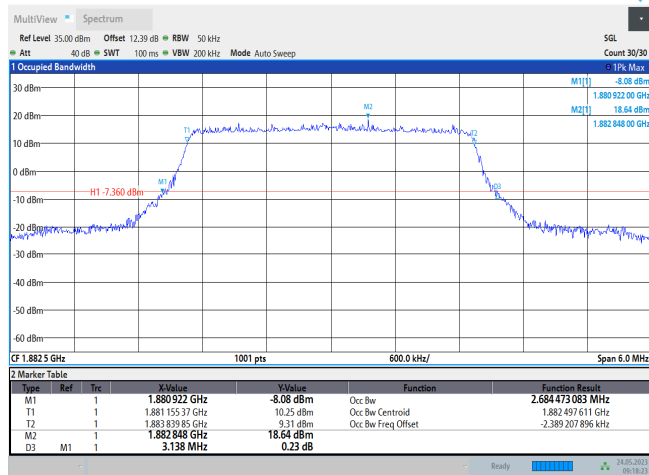
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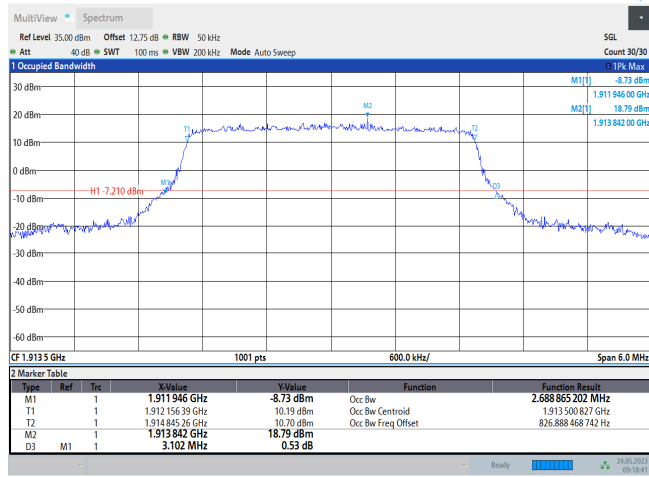


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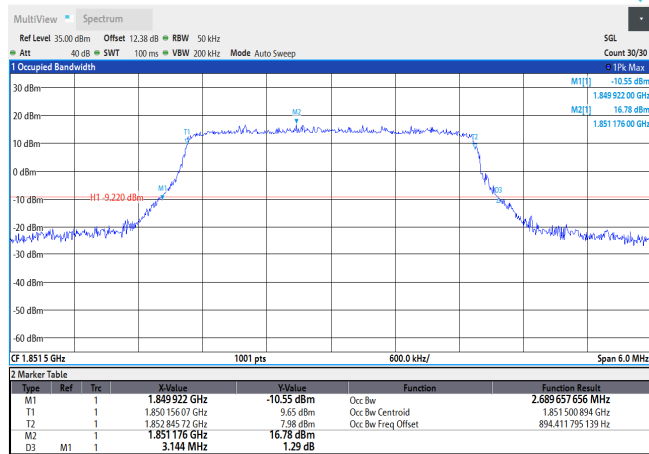
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Band25-3MHz-QPSK-26675-15RB#0



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Band25-3MHz-16QAM-26055-15RB#0



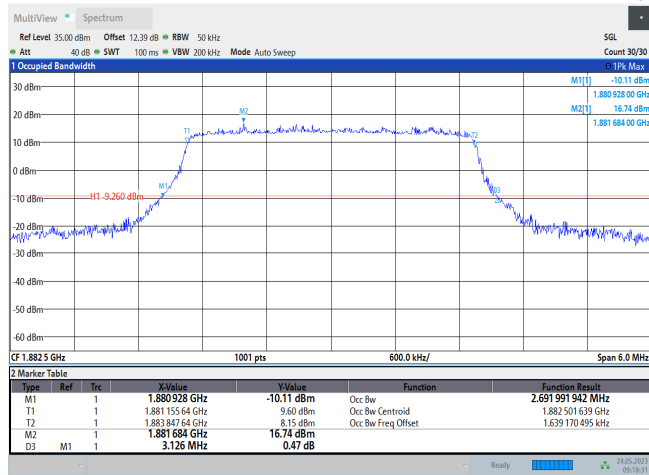
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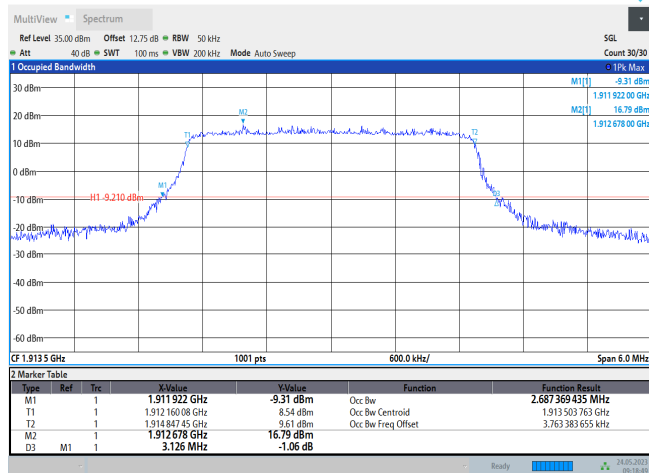
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Band25-3MHz-16QAM-26675-15RB#0



09:18:49 24.05.2023



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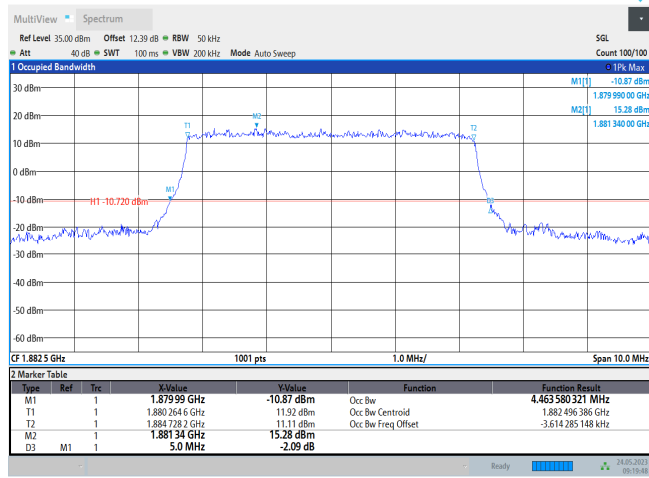
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Band25-5MHz-QPSK-26065-25RB#0



09:19:16 24.05.2023

Band25-5MHz-QPSK-26365-25RB#0



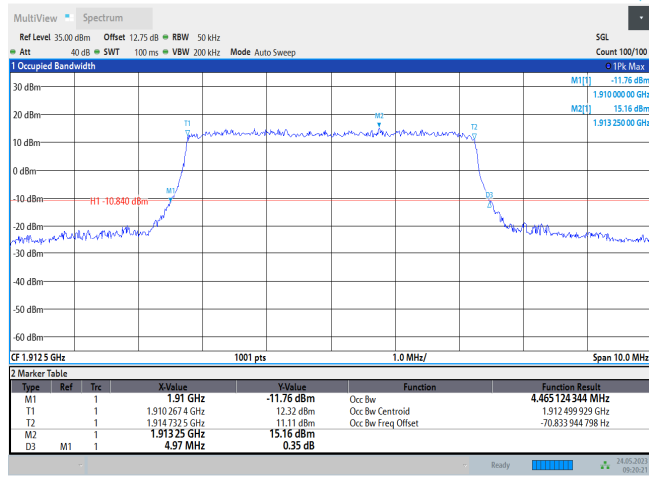
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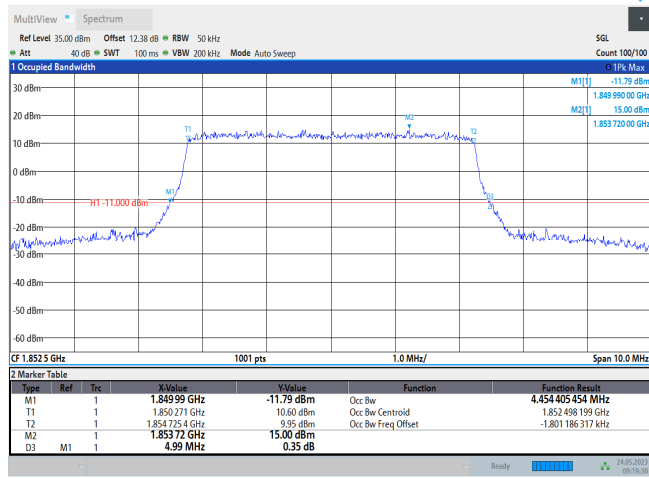
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Band25-5MHz-QPSK-26665-25RB#0



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Band25-5MHz-16QAM-26065-25RB#0



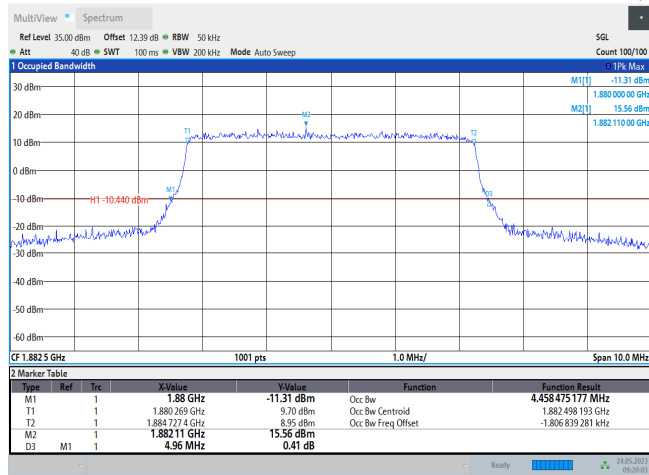
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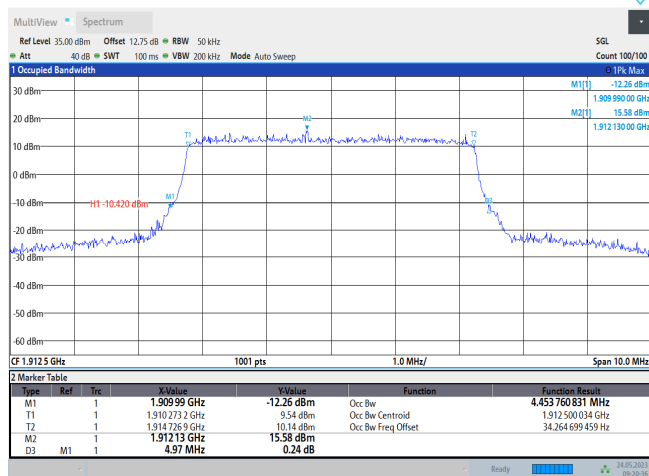
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Band25-5MHz-16QAM-26365-25RB#0



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Band25-5MHz-16QAM-26665-25RB#0



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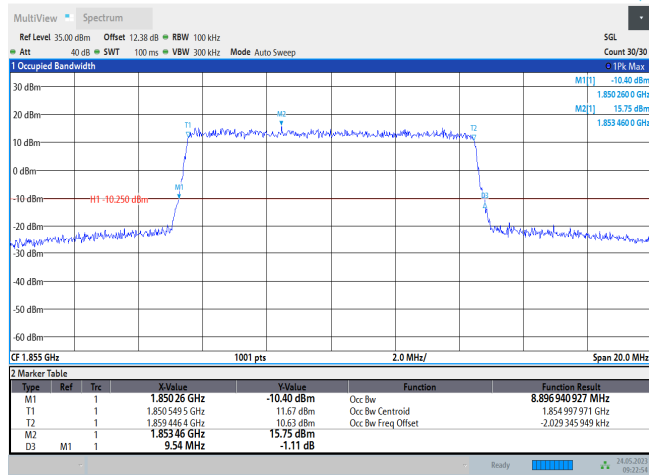


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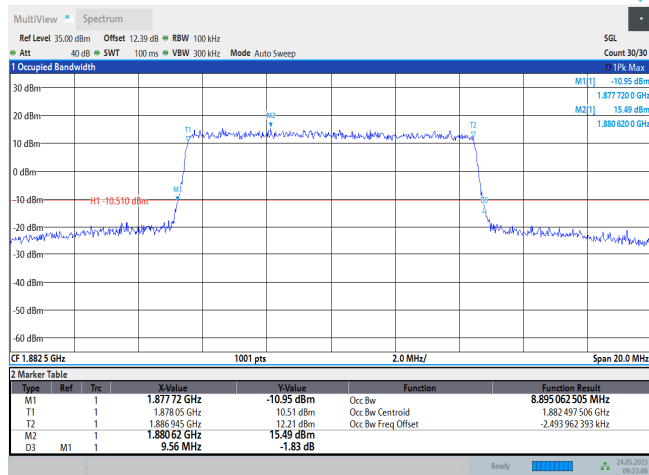
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Band25-10MHz-QPSK-26090-50RB#0



09:22:55 24.05.2023

Band25-10MHz-QPSK-26365-50RB#0



09:23:06 24.05.2023

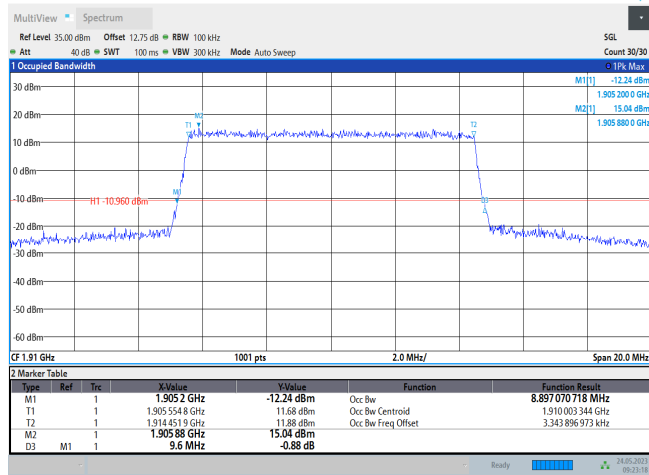


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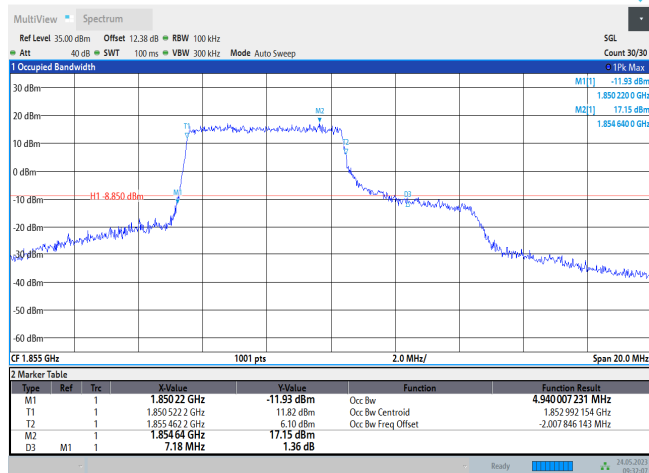


Band25-10MHz-QPSK-26640-50RB#0



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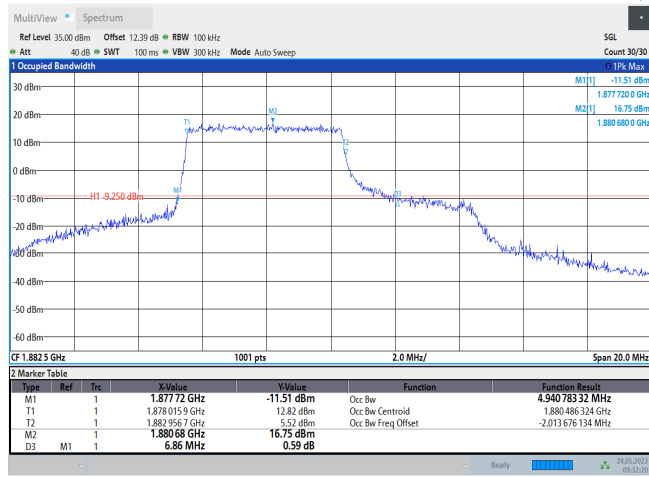


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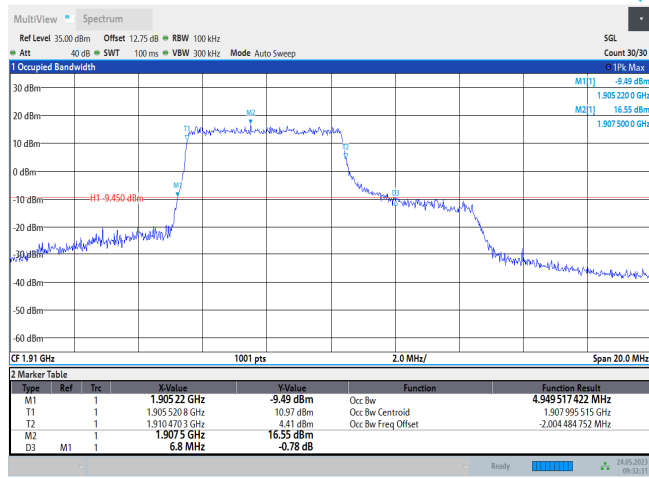
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Band25-10MHz-16QAM-26365-27RB#0



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Band25-10MHz-16QAM-26640-27RB#0



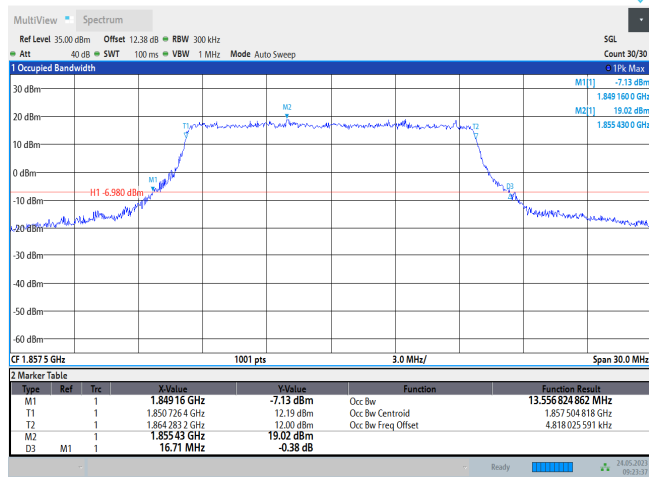
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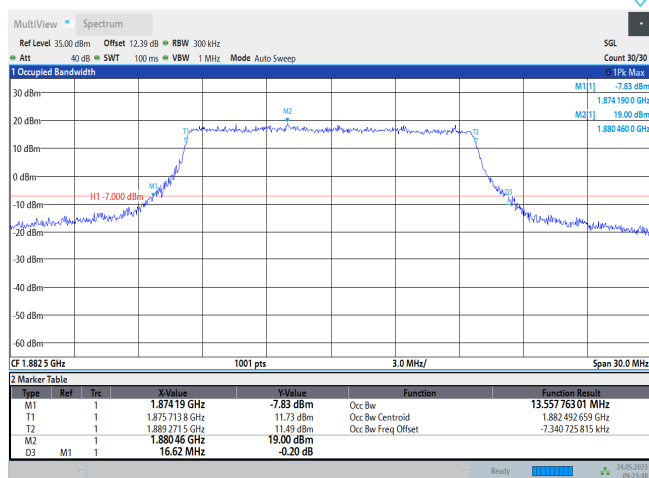
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Band25-15MHz-QPSK-26115-75RB#0



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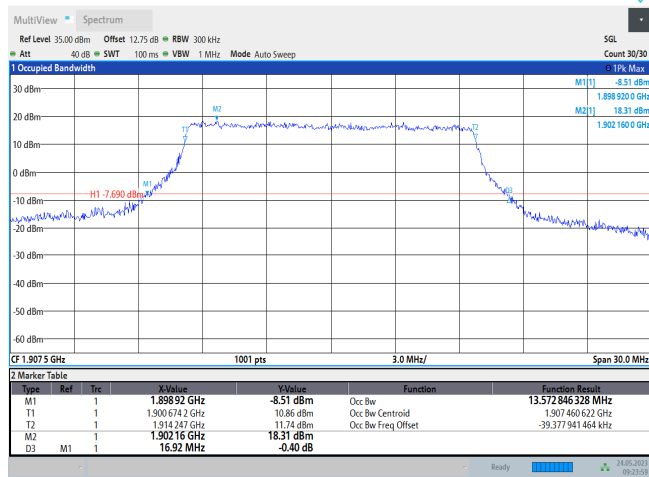
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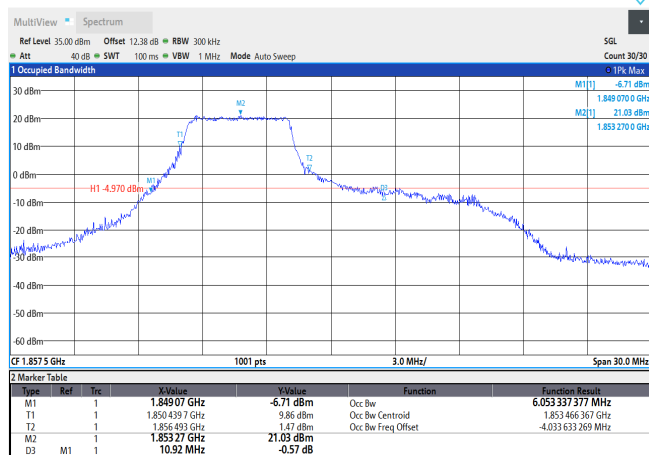
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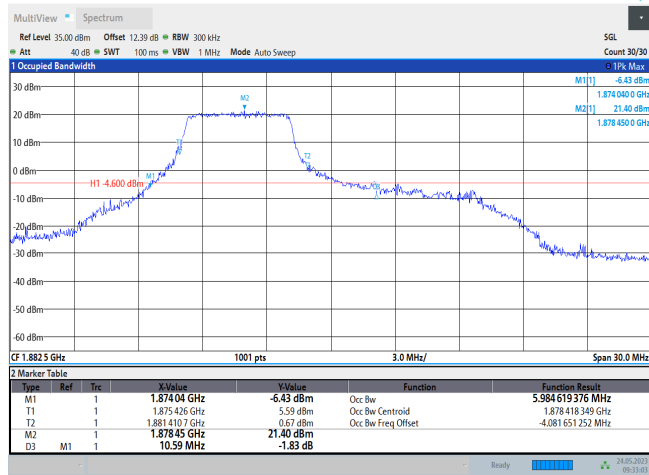
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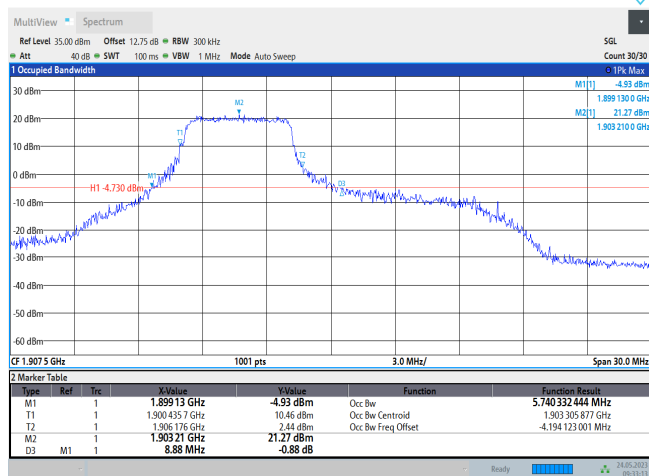
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Band25-15MHz-16QAM-26615-27RB#0



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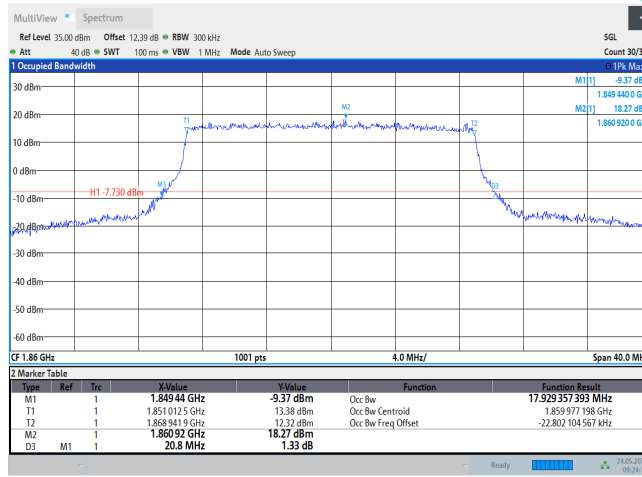


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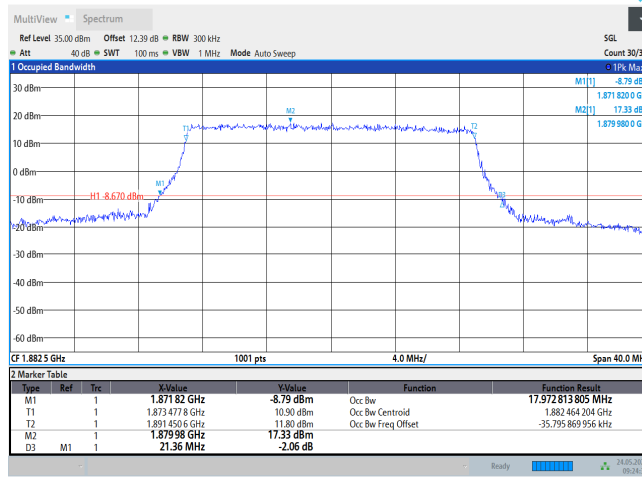
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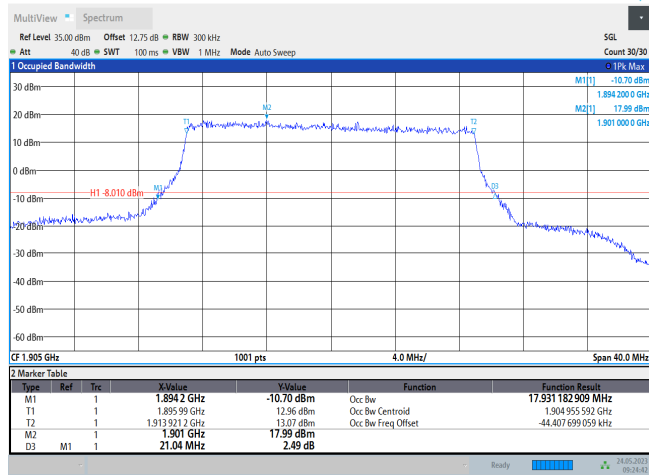
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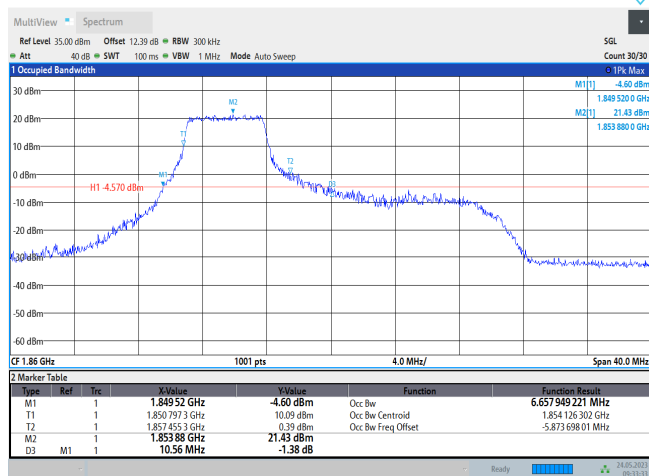
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Band25-20MHz-16QAM-26140-27RB#0



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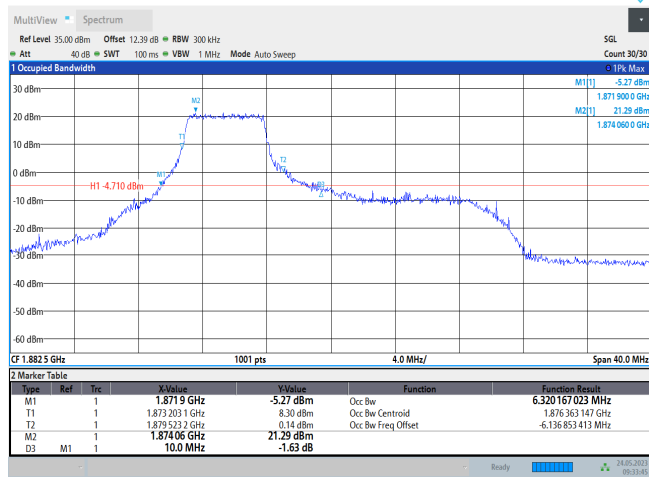


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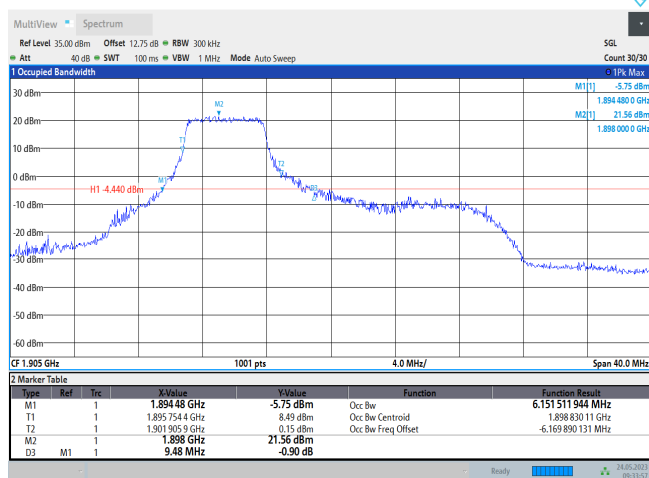
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Band25-20MHz-16QAM-26365-27RB#0



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09:33:58 24.05.2023



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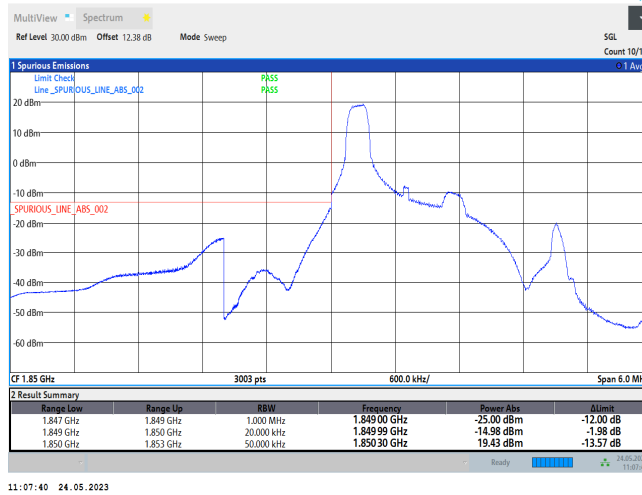
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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086 t (86-29) 6282 7885 sgs.china@sgs.com



# Band Edge

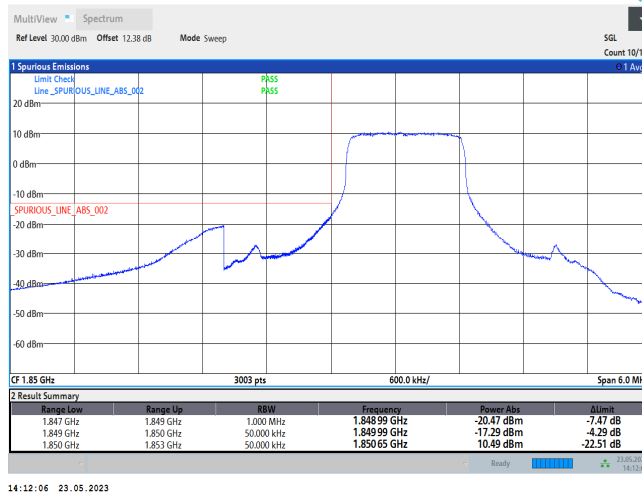
## Test Graphs

Band25-1.4MHz-QPSK-26047-1RB#0



11:07:40 24.05.2023

Band25-1.4MHz-QPSK-26047-6RB#0



14:12:06 23.05.2023



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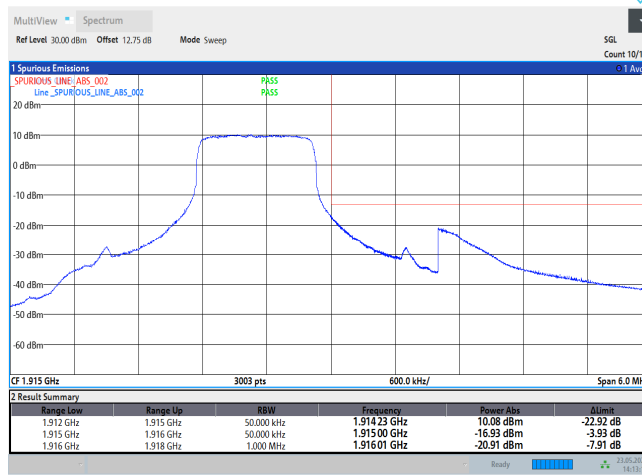
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Band25-1.4MHz-QPSK-26683-1RB#5



11:13:41 24.05.2023

Band25-1.4MHz-QPSK-26683-6RB#0



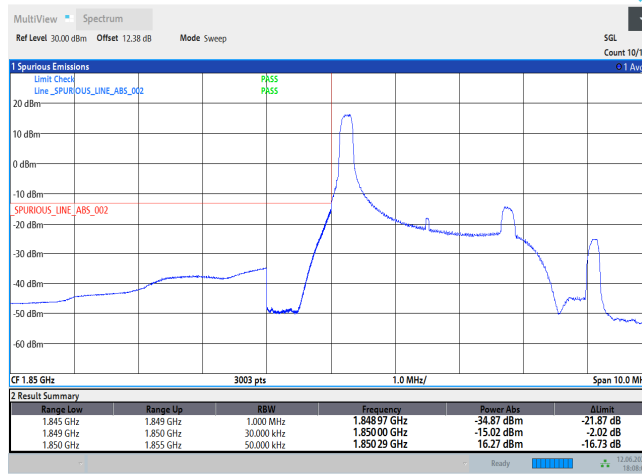
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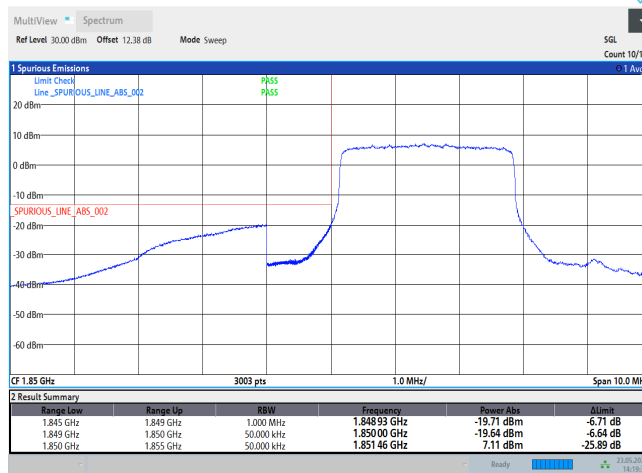
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Band25-3MHz-QPSK-26055-1RB#0



18:08:08 12.06.2023

Band25-3MHz-QPSK-26055-15RB#0

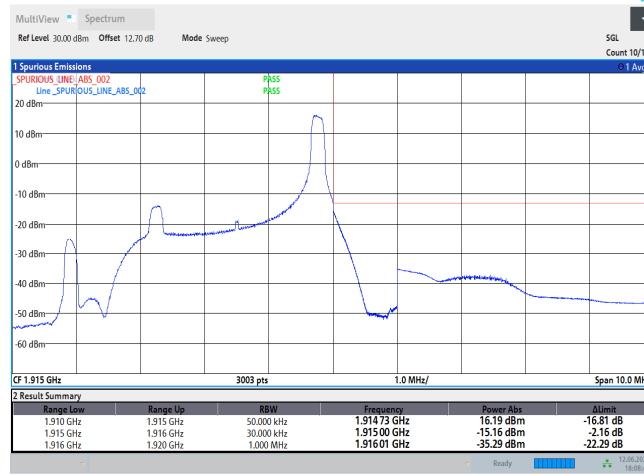


14:19:39 23.05.2023



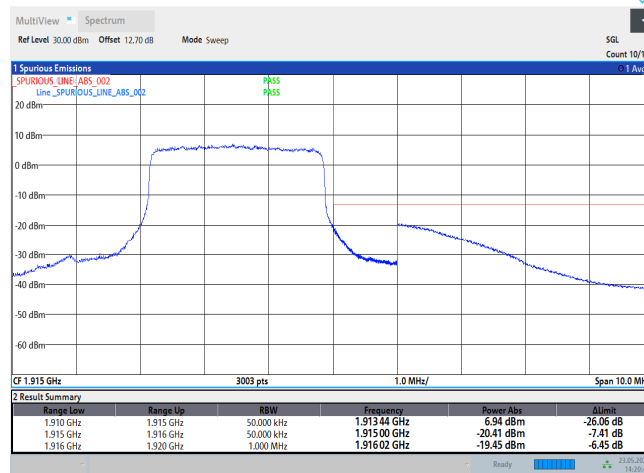
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Band25-3MHz-QPSK-26675-1RB#14



18:08:50 12.06.2023

Band25-3MHz-QPSK-26675-15RB#0



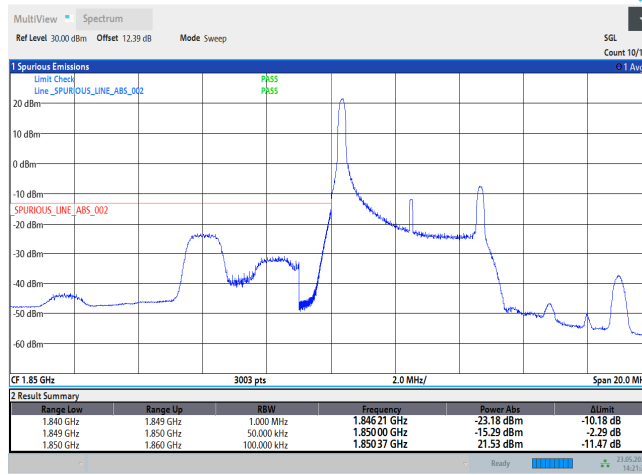
14:20:46 23.05.2023



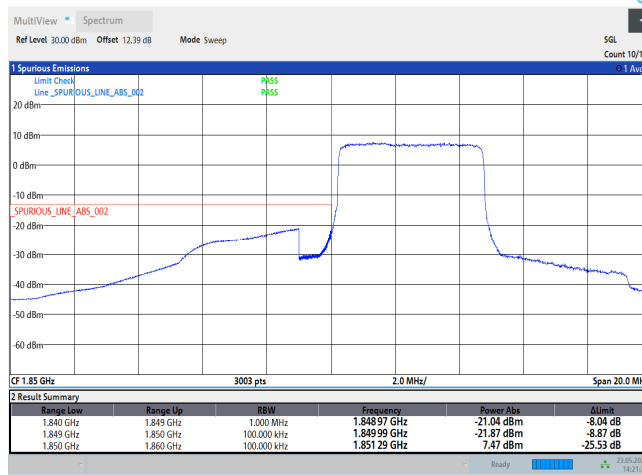
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Band25-5MHz-QPSK-26065-1RB#0



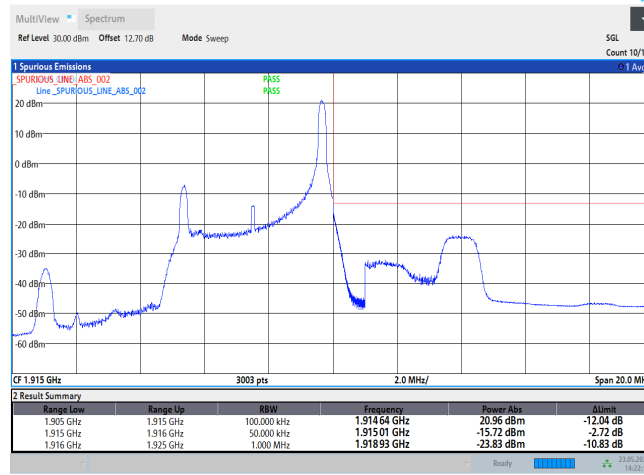
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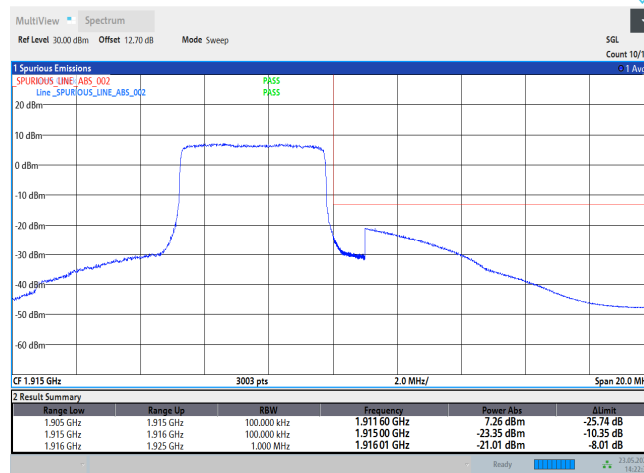
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Band25-5MHz-QPSK-26665-1RB#24



14:22:15 23.05.2023

Band25-5MHz-QPSK-26665-25RB#0



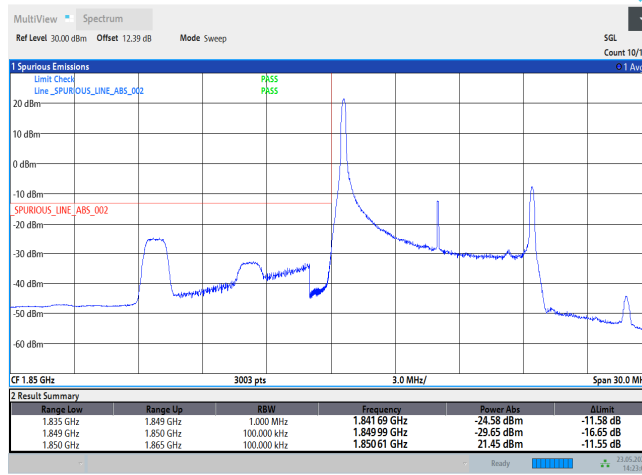
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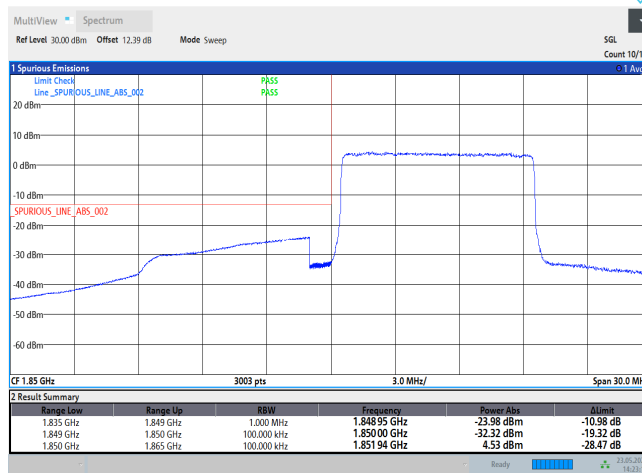
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Band25-10MHz-QPSK-26090-1RB#0



14:23:06 23.05.2023

Band25-10MHz-QPSK-26090-50RB#0



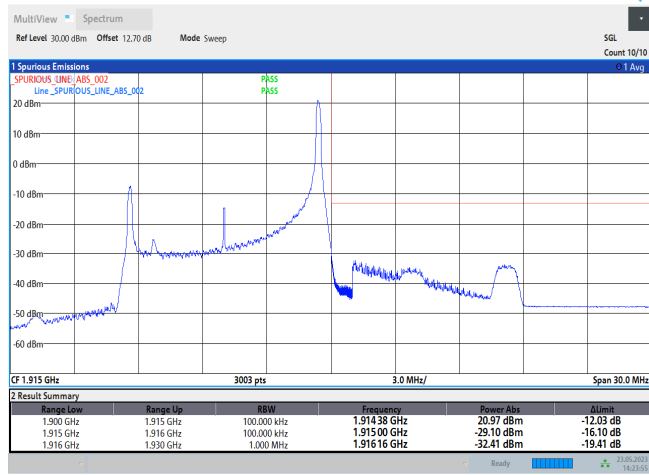
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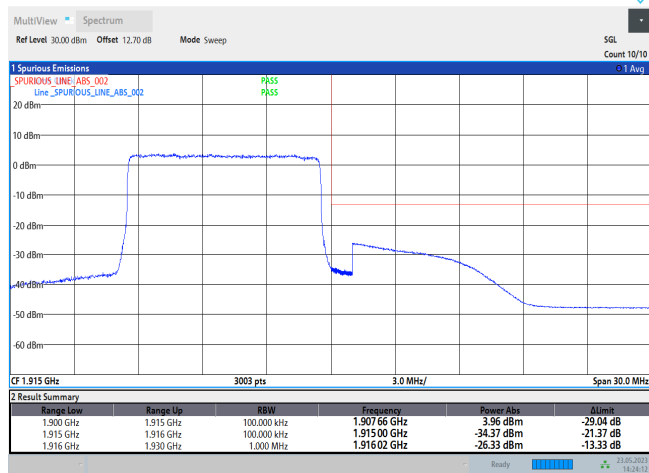
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Band25-10MHz-QPSK-26640-1RB#49



14:23:56 23.05.2023

Band25-10MHz-QPSK-26640-50RB#0



14:24:12 23.05.2023

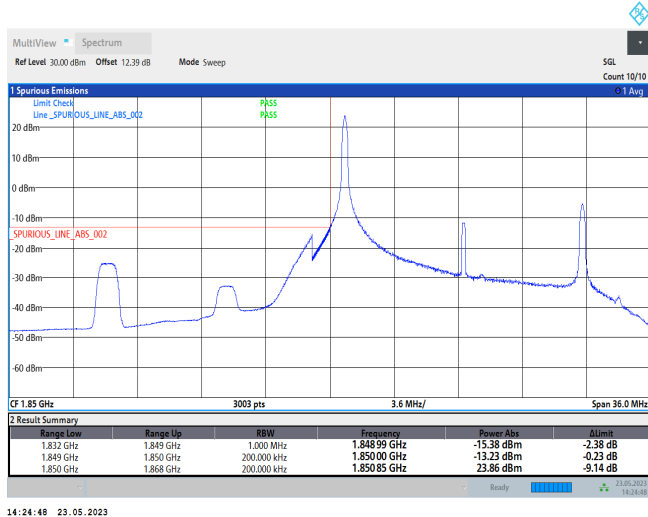


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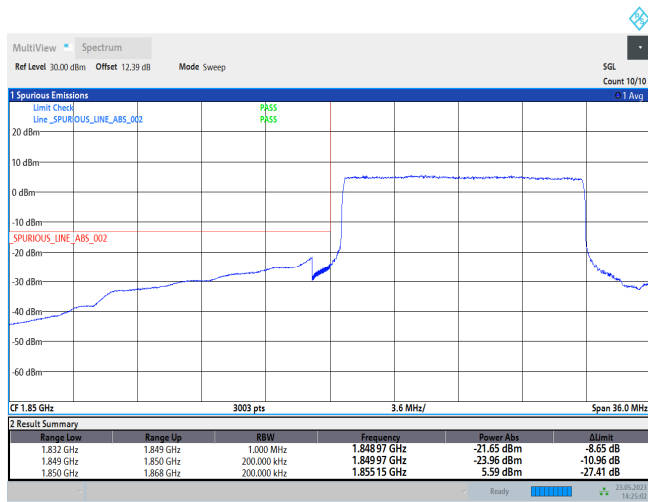


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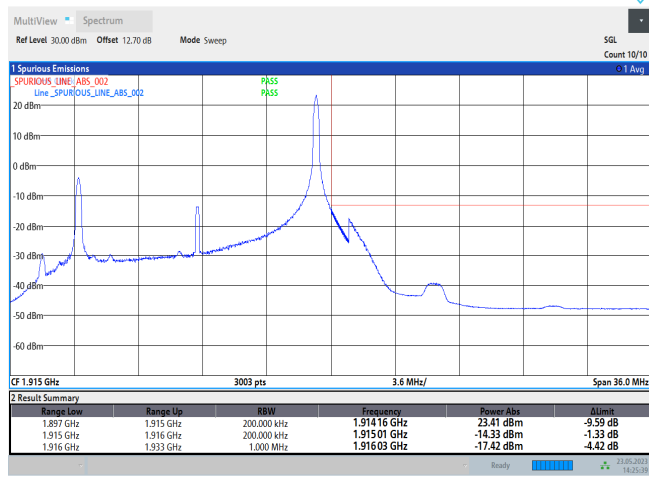
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14:25:03 23.05.2023



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14:25:40 23.05.2023

Band25-15MHz-QPSK-26615-75RB#0



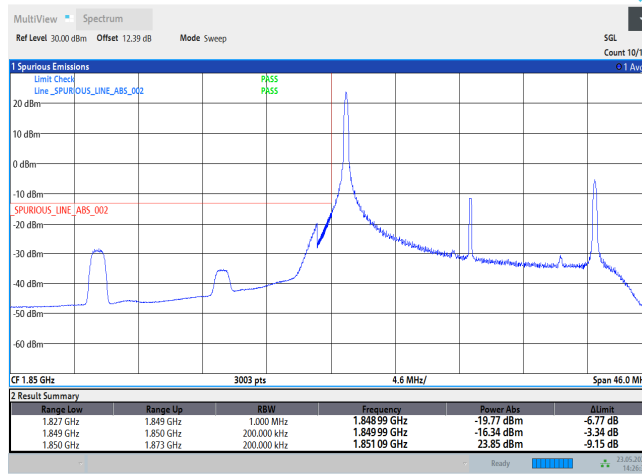
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Band25-20MHz-QPSK-26140-1RB#0



14:26:32 23.05.2023

Band25-20MHz-QPSK-26140-100RB#0



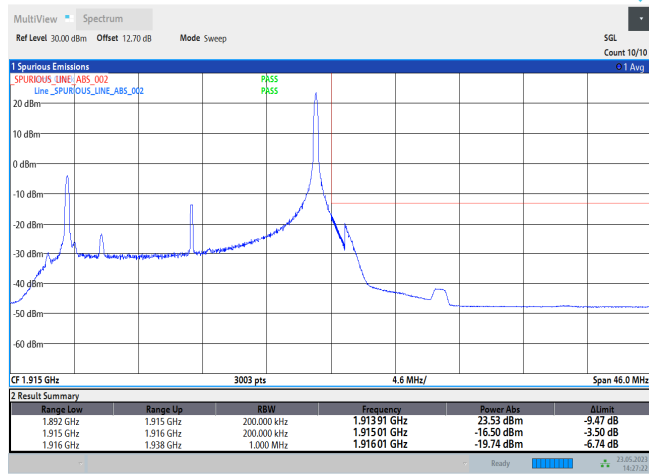
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Band25-20MHz-QPSK-26590-1RB#99



14:27:23 23.05.2023

Band25-20MHz-QPSK-26590-100RB#0



14:27:38 23.05.2023



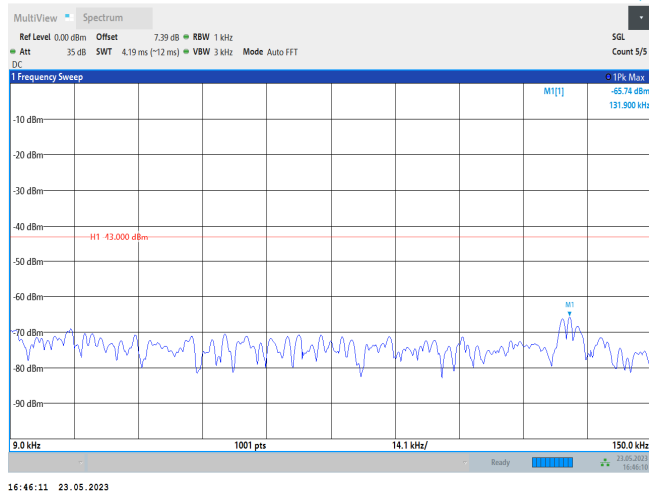
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## Conducted Spurious Emission

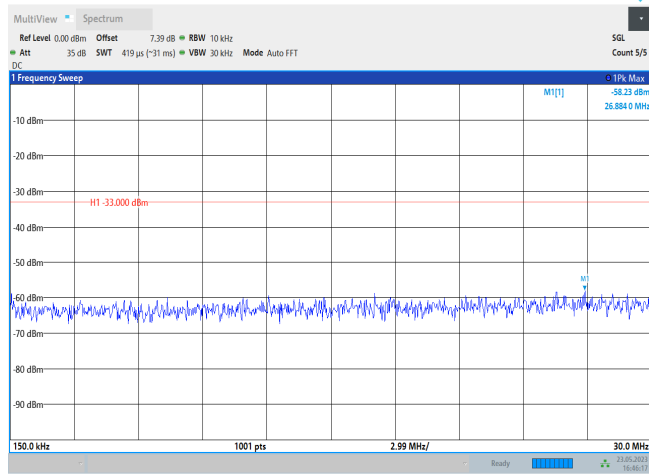
### Test Graphs

Band25-20MHz-QPSK-26140-1RB#0-Range1:0.009~0.15MHz



16:46:11 23.05.2023

Band25-20MHz-QPSK-26140-1RB#0-Range2:0.15~30MHz



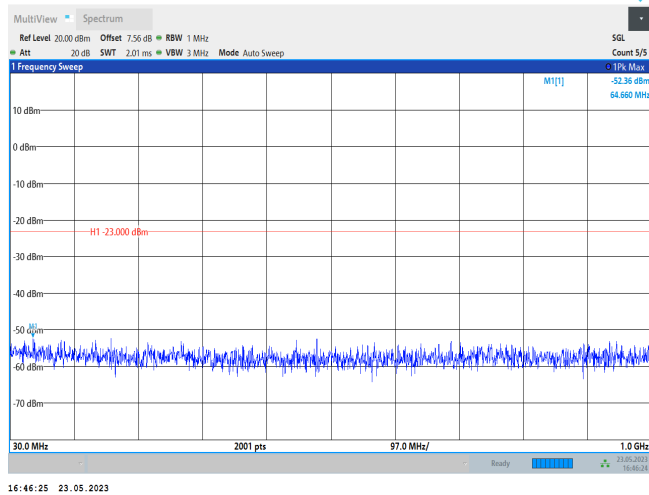
16:46:18 23.05.2023



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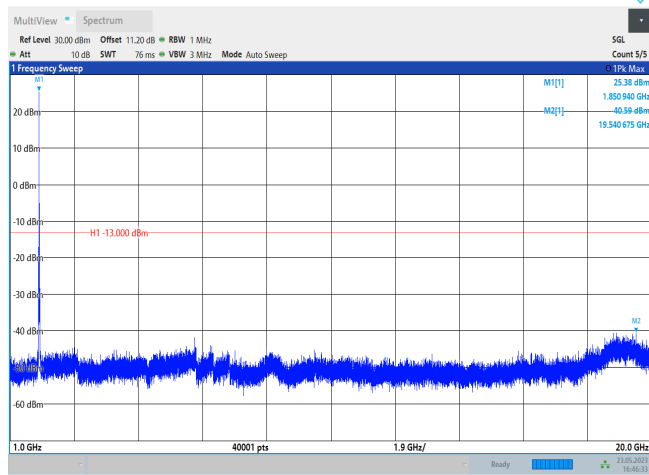
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Band25-20MHz-QPSK-26140-1RB#0-Range3:30~1000MHz



16:46:25 23.05.2023

Band25-20MHz-QPSK-26140-1RB#0-Range4:1000~20000MHz



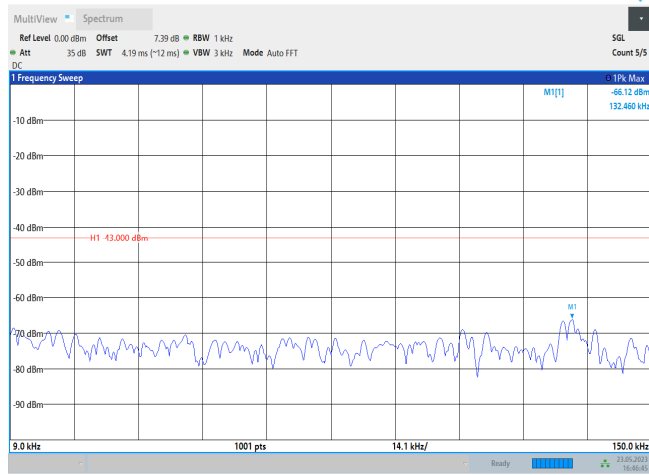
16:46:33 23.05.2023



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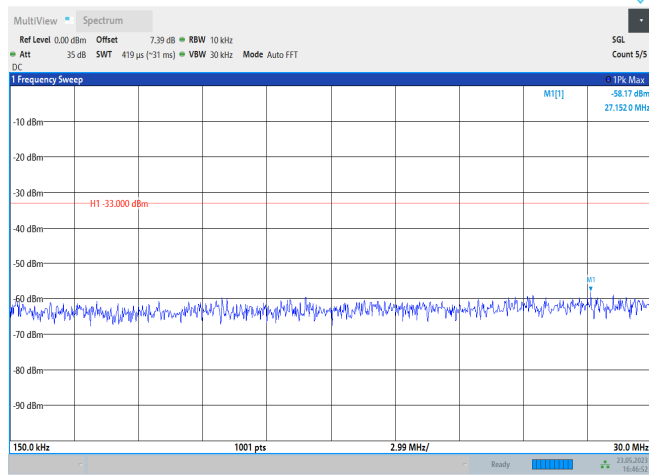
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Band25-20MHz-QPSK-26365-1RB#0-Range1:0.009~0.15MHz



16:46:45 23.05.2023

Band25-20MHz-QPSK-26365-1RB#0-Range2:0.15~30MHz



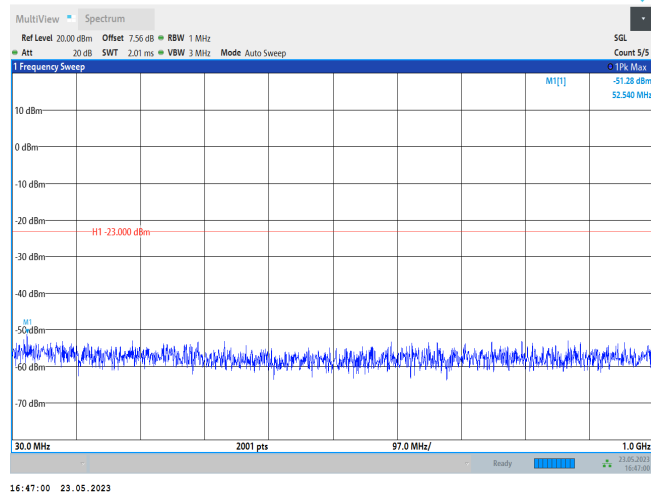
16:46:53 23.05.2023



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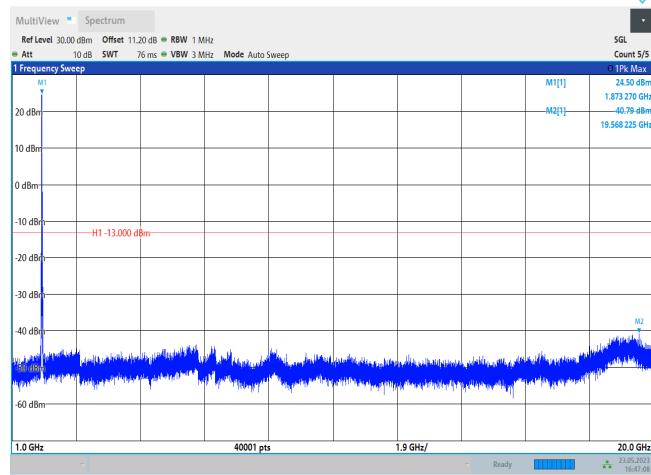
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Band25-20MHz-QPSK-26365-1RB#0-Range3:30~1000MHz



16:47:00 23.05.2023

Band25-20MHz-QPSK-26365-1RB#0-Range4:1000~20000MHz



16:47:08 23.05.2023

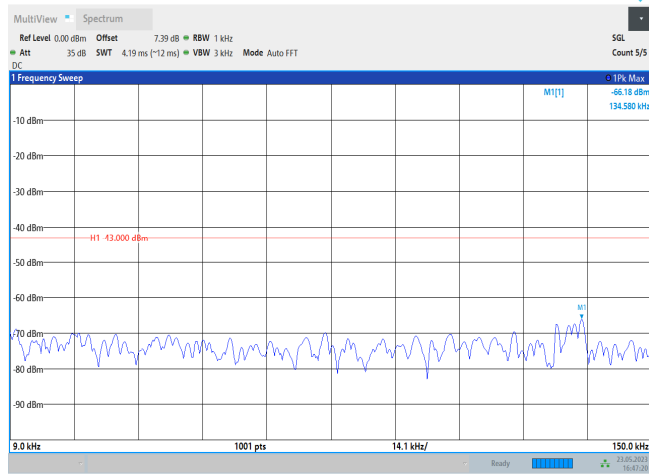


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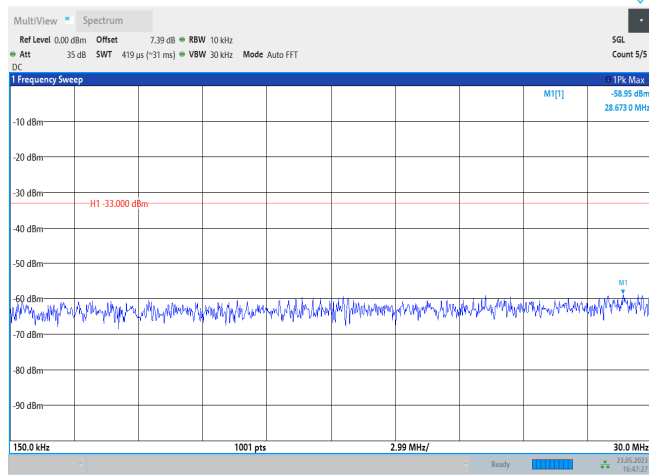


Band25-20MHz-QPSK-26590-1RB#0-Range1:0.009~0.15MHz



16:47:21 23.05.2023

Band25-20MHz-QPSK-26590-1RB#0-Range2:0.15~30MHz



16:47:28 23.05.2023



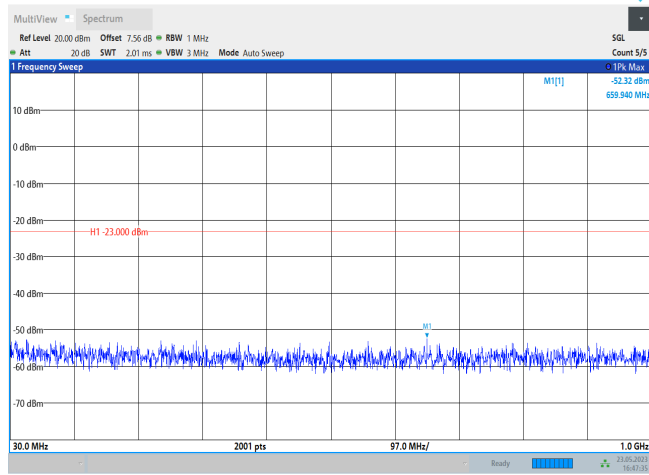
SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.  
 Wireless Laboratory

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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

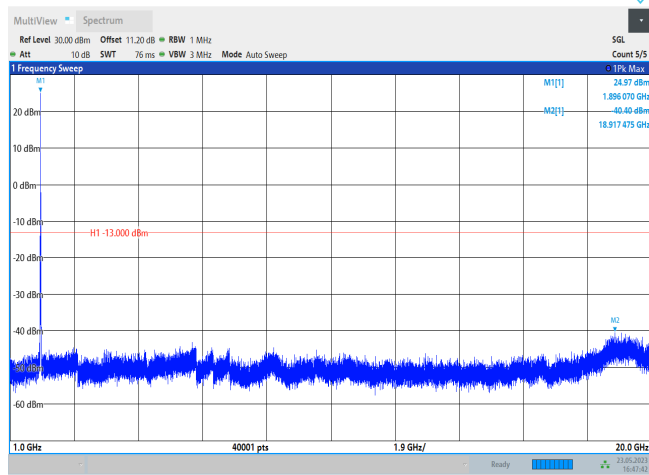
t (86-29) 6282 7885 www.sgsgroup.com.cn  
 t (86-29) 6282 7885 sgs.china@sgs.com

Band25-20MHz-QPSK-26590-1RB#0-Range3:30~1000MHz



16:47:35 23.05.2023

Band25-20MHz-QPSK-26590-1RB#0-Range4:1000~20000MHz



16:47:43 23.05.2023



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### Field Strength of Spurious Radiation

Test Band = LTE\_25\_TM1\_20MHz  
 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	2983.2479	24.93	1.40	29.63	-39.30	-13.00	26.30	226	22	Horizontal
2	3702.0351	72.11	-50.00	30.31	-42.84	-13.00	29.84	325	150	Horizontal
3	5553.1277	60.90	-45.47	33.21	-46.62	-13.00	33.62	189	330	Horizontal
4	9255.3128	51.02	-41.26	39.07	-46.43	-13.00	33.43	226	170	Horizontal
5	11927.6964	47.66	-38.14	39.47	-46.27	-13.00	33.27	320	160	Horizontal
6	17994.7497	49.09	-44.06	42.77	-47.46	-13.00	34.46	119	238	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	2997.7497	24.93	1.56	29.78	-38.99	-13.00	25.99	120	282	Vertical
2	3702.0351	69.86	-50.00	30.31	-45.09	-13.00	32.09	226	344	Vertical
3	5553.1277	59.94	-45.47	33.21	-47.58	-13.00	34.58	321	207	Vertical
4	7404.2202	53.07	-44.09	36.79	-49.49	-13.00	36.49	159	358	Vertical
5	11931.4466	46.99	-38.20	39.47	-47.00	-13.00	34.00	326	25	Vertical
6	17990.2495	49.07	-43.95	42.74	-47.40	-13.00	34.40	224	123	Vertical



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Test Band = LTE\_25\_TM1\_20MHz  
 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	2994.7493	24.73	1.48	29.75	-39.30	-13.00	26.30	269	359	Horizontal
2	3742.5371	69.73	-49.46	30.47	-44.52	-13.00	31.52	196	79	Horizontal
3	5613.1307	64.03	-45.52	33.37	-43.38	-13.00	30.38	226	5	Horizontal
4	9808.0904	52.11	-41.58	38.88	-45.85	-13.00	32.85	148	276	Horizontal
5	11921.6961	47.12	-38.05	39.48	-46.71	-13.00	33.71	226	143	Horizontal
6	17996.2498	48.98	-44.10	42.78	-47.60	-13.00	34.60	320	59	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	2999.2499	24.90	1.61	29.79	-38.96	-13.00	25.96	158	292	Vertical
2	3742.5371	68.36	-49.46	30.47	-45.89	-13.00	32.89	224	349	Vertical
3	5613.1307	61.92	-45.52	33.37	-45.49	-13.00	32.49	189	275	Vertical
4	7356.9678	51.27	-43.96	36.89	-51.06	-13.00	38.06	336	88	Vertical
5	9808.0904	50.77	-41.58	38.88	-47.19	-13.00	34.19	254	265	Vertical
6	17993.2497	49.11	-44.03	42.76	-47.42	-13.00	34.42	110	358	Vertical



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**Test Band = LTE\_25\_TM1\_20MHz**  
**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	2999.4999	24.55	1.62	29.79	-39.30	-13.00	26.30	233	142	Horizontal
2	3792.0396	74.16	-49.53	30.50	-40.13	-13.00	27.13	254	163	Horizontal
3	5688.1344	58.82	-44.84	33.45	-47.83	-13.00	34.83	189	310	Horizontal
4	9480.324	48.93	-41.44	39.12	-48.65	-13.00	35.65	226	276	Horizontal
5	11922.4461	46.91	-38.06	39.48	-46.93	-13.00	33.93	325	349	Horizontal
6	17919.746	48.54	-42.98	42.32	-47.38	-13.00	34.38	140	172	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	2999.75	24.56	1.62	29.80	-39.28	-13.00	26.28	236	138	Vertical
2	3792.0396	71.10	-49.53	30.50	-43.19	-13.00	30.19	254	245	Vertical
3	5688.1344	67.00	-44.84	33.45	-39.65	-13.00	26.65	149	93	Vertical
4	9808.0904	50.66	-41.58	38.88	-47.30	-13.00	34.30	225	240	Vertical
5	11934.4467	47.36	-38.25	39.47	-46.68	-13.00	33.68	143	266	Vertical
6	17996.2498	49.47	-44.10	42.78	-47.11	-13.00	34.11	220	78	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
Band25	20MHz	QPSK	26365	100RB#0	VL	NT	-9.48	-0.005036	PASS
Band25	20MHz	QPSK	26365	100RB#0	VN	NT	-12.13	-0.006444	PASS
Band25	20MHz	QPSK	26365	100RB#0	VH	NT	-11.86	-0.006300	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	20MHz	QPSK	26365	100RB#0	NV	-30	-5.66	-0.003007	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-20	-11.01	-0.005849	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	-10	-8.01	-0.004255	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	0	-6.25	-0.003320	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	10	-5.82	-0.003092	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	20	-7.38	-0.003920	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	30	-6.02	-0.003198	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	40	-10.26	-0.005450	PASS
Band25	20MHz	QPSK	26365	100RB#0	NV	50	-11.34	-0.006024	PASS

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