

Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 1 of 62

# Appendix B.5

## LTE Band 5

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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 2 of 62

## Effective (Isotropic) Radiated Power Output Data

### Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.37	16.72	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.42	16.77	38.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.31	16.66	38.45	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.33	15.68	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.93	16.28	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.94	16.29	38.45	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.90	16.25	38.45	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.03	15.38	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.86	16.21	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.92	16.27	38.45	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.94	16.29	38.45	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.86	15.21	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.49	15.84	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.60	15.95	38.45	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.50	15.85	38.45	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.50	14.85	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.24	15.59	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.30	15.65	38.45	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.28	15.63	38.45	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.08	14.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.09	15.44	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.08	15.43	38.45	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.99	15.34	38.45	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.11	14.46	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#0	21.66	15.01	38.45	PASS
Band5	1.4MHz	64QAM	20407	1RB#2	21.60	14.95	38.45	PASS

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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 3 of 62

Band5	1.4MHz	64QAM	20407	1RB#5	21.47	14.82	38.45	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	20.42	13.77	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#0	21.11	14.46	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#2	21.18	14.53	38.45	PASS
Band5	1.4MHz	64QAM	20525	1RB#5	21.07	14.42	38.45	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	19.98	13.33	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#0	21.18	14.53	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#2	21.10	14.45	38.45	PASS
Band5	1.4MHz	64QAM	20643	1RB#5	21.09	14.44	38.45	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	19.97	13.32	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.31	16.66	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.32	16.67	38.45	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.24	16.59	38.45	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.28	15.63	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.93	16.28	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.90	16.25	38.45	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.87	16.22	38.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.04	15.39	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.80	16.15	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.87	16.22	38.45	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.89	16.24	38.45	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.81	15.16	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.58	15.93	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.46	15.81	38.45	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.65	16.00	38.45	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.49	14.84	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.23	15.58	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.26	15.61	38.45	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.26	15.61	38.45	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.03	14.38	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.93	15.28	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#8	22.04	15.39	38.45	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.98	15.33	38.45	PASS

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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 4 of 62

Band5	3MHz	16QAM	20635	15RB#0	21.00	14.35	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#0	21.69	15.04	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#8	21.51	14.86	38.45	PASS
Band5	3MHz	64QAM	20415	1RB#14	21.54	14.89	38.45	PASS
Band5	3MHz	64QAM	20415	15RB#0	20.46	13.81	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#0	21.21	14.56	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#8	21.13	14.48	38.45	PASS
Band5	3MHz	64QAM	20525	1RB#14	21.14	14.49	38.45	PASS
Band5	3MHz	64QAM	20525	15RB#0	19.97	13.32	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#0	21.13	14.48	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#8	21.14	14.49	38.45	PASS
Band5	3MHz	64QAM	20635	1RB#14	21.18	14.53	38.45	PASS
Band5	3MHz	64QAM	20635	15RB#0	19.95	13.30	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.48	16.83	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.38	16.73	38.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.26	16.61	38.45	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.24	15.59	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.03	16.38	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.99	16.34	38.45	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.94	16.29	38.45	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.03	15.38	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.90	16.25	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.94	16.29	38.45	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.98	16.33	38.45	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.91	15.26	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.55	15.90	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.42	15.77	38.45	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.53	15.88	38.45	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.41	14.76	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.39	15.74	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.33	15.68	38.45	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.17	15.52	38.45	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.06	14.41	38.45	PASS

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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 5 of 62

Band5	5MHz	16QAM	20625	1RB#0	21.99	15.34	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#12	22.08	15.43	38.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.05	15.40	38.45	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.03	14.38	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#0	21.64	14.99	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#12	21.57	14.92	38.45	PASS
Band5	5MHz	64QAM	20425	1RB#24	21.37	14.72	38.45	PASS
Band5	5MHz	64QAM	20425	25RB#0	20.43	13.78	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#0	21.29	14.64	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#12	21.24	14.59	38.45	PASS
Band5	5MHz	64QAM	20525	1RB#24	21.14	14.49	38.45	PASS
Band5	5MHz	64QAM	20525	25RB#0	20.02	13.37	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#0	21.10	14.45	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#12	21.20	14.55	38.45	PASS
Band5	5MHz	64QAM	20625	1RB#24	21.16	14.51	38.45	PASS
Band5	5MHz	64QAM	20625	25RB#0	20.01	13.36	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.36	16.71	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.17	16.52	38.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.98	16.33	38.45	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.26	15.61	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.04	16.39	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.90	16.25	38.45	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.80	16.15	38.45	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.01	15.36	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.84	16.19	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.82	16.17	38.45	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.88	16.23	38.45	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.78	15.13	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.64	15.99	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.45	15.80	38.45	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.28	15.63	38.45	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.28	14.63	38.45	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.44	15.79	38.45	PASS

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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 6 of 62

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Band5	10MHz	16QAM	20525	1RB#49	22.01	15.36	38.45	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.98	14.33	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.20	15.55	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#24	22.10	15.45	38.45	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.97	15.32	38.45	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.94	14.29	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#0	21.62	14.97	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#24	21.33	14.68	38.45	PASS
Band5	10MHz	64QAM	20450	1RB#49	21.22	14.57	38.45	PASS
Band5	10MHz	64QAM	20450	50RB#0	20.28	13.63	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#0	21.25	14.60	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#24	21.12	14.47	38.45	PASS
Band5	10MHz	64QAM	20525	1RB#49	21.08	14.43	38.45	PASS
Band5	10MHz	64QAM	20525	50RB#0	19.97	13.32	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#0	21.10	14.45	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#24	20.96	14.31	38.45	PASS
Band5	10MHz	64QAM	20600	1RB#49	21.10	14.45	38.45	PASS
Band5	10MHz	64QAM	20600	50RB#0	19.93	13.28	38.45	PASS

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## Peak-to-Average Ratio(CCDF)

## Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	5.08	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	5.08	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	5.28	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	5.82	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	5.84	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	6.00	13	PASS
Band5	10MHz	64QAM	20450	50RB#0	6.26	13	PASS
Band5	10MHz	64QAM	20525	50RB#0	6.20	13	PASS
Band5	10MHz	64QAM	20600	50RB#0	6.36	13	PASS

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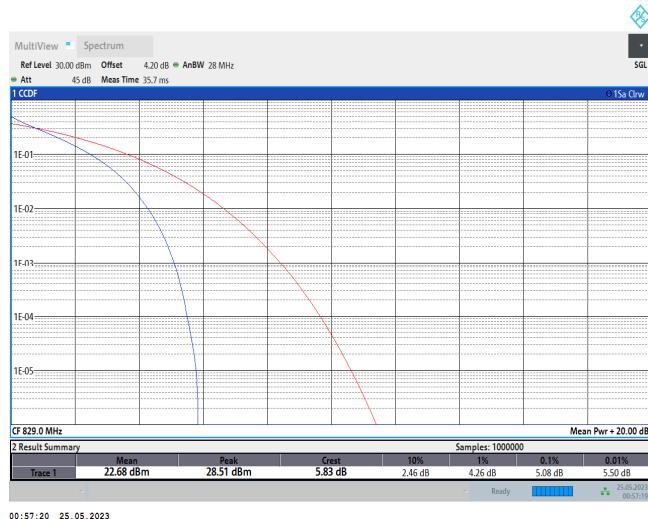
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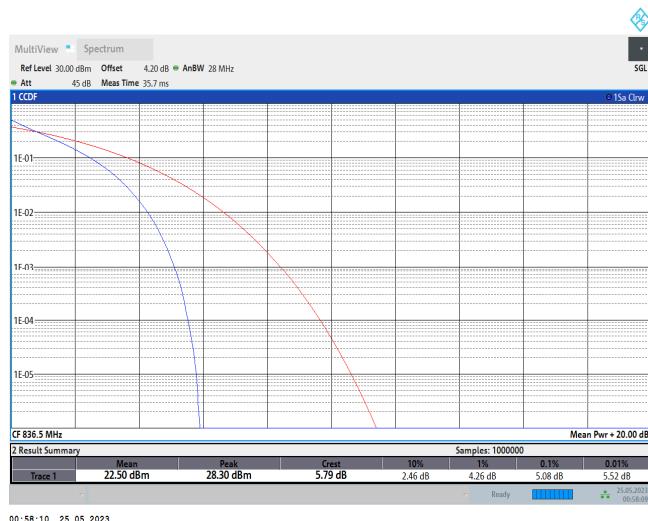
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 Page: 8 of 62

## Test Graphs

### Band5-10MHz-QPSK-20450-50RB#0



### Band5-10MHz-QPSK-20525-50RB#0



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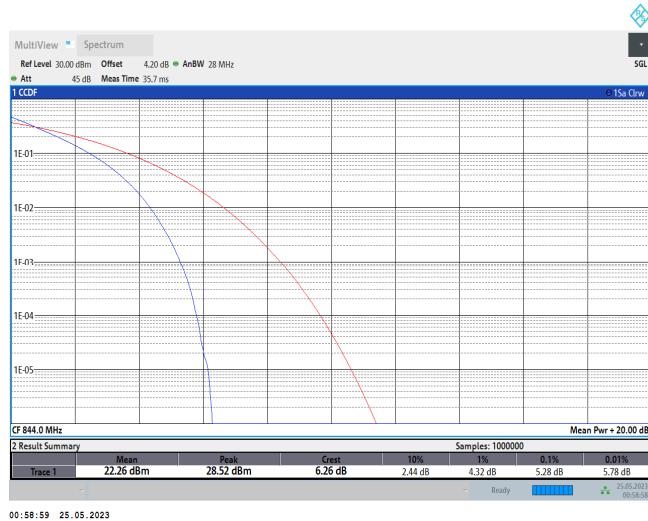


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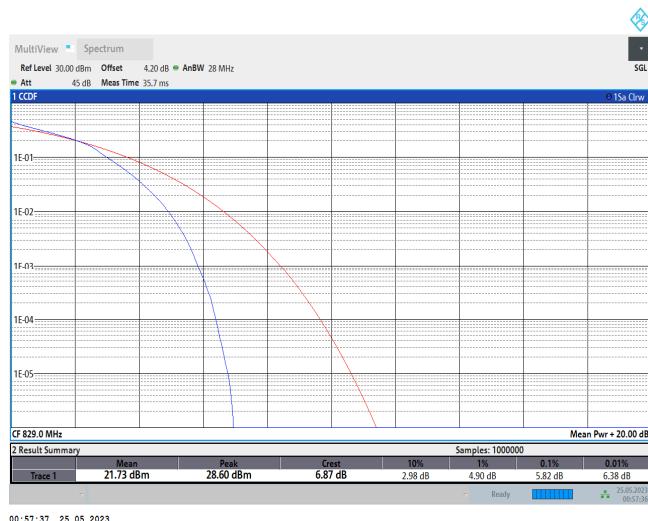
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## Band5-10MHz-QPSK-20600-50RB#0



## Band5-10MHz-16QAM-20450-50RB#0



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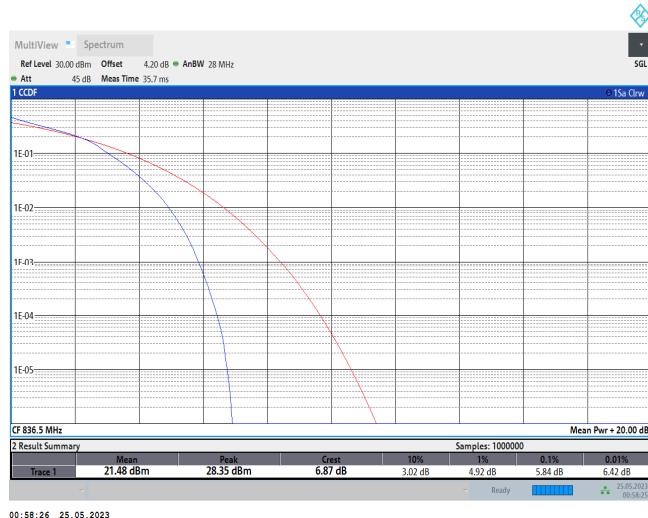
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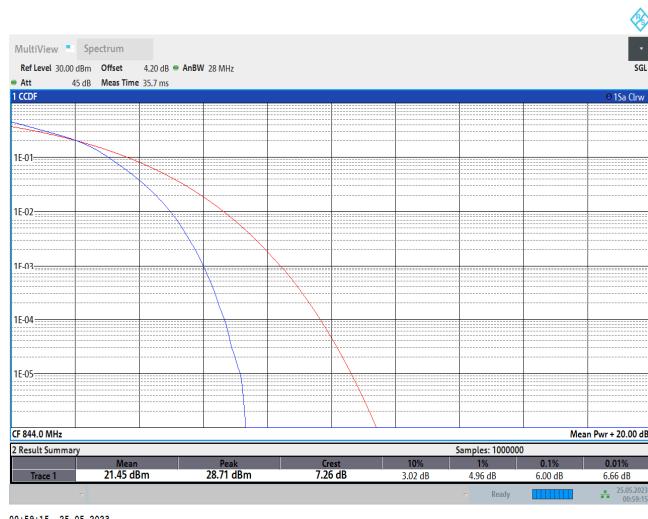
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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 10 of 62

## Band5-10MHz-16QAM-20525-50RB#0



## Band5-10MHz-16QAM-20600-50RB#0



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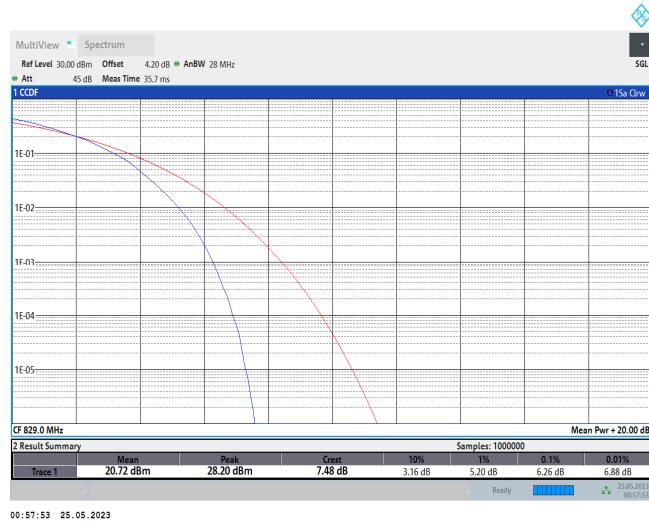
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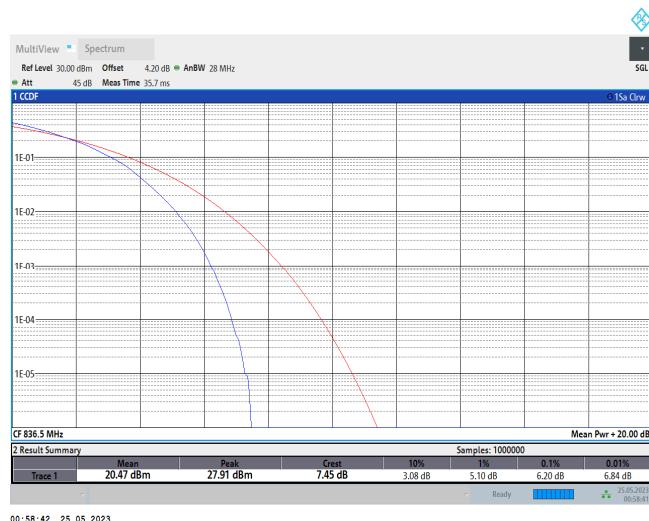
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 Page: 11 of 62

## Band5-10MHz-64QAM-20450-50RB#0



## Band5-10MHz-64QAM-20525-50RB#0



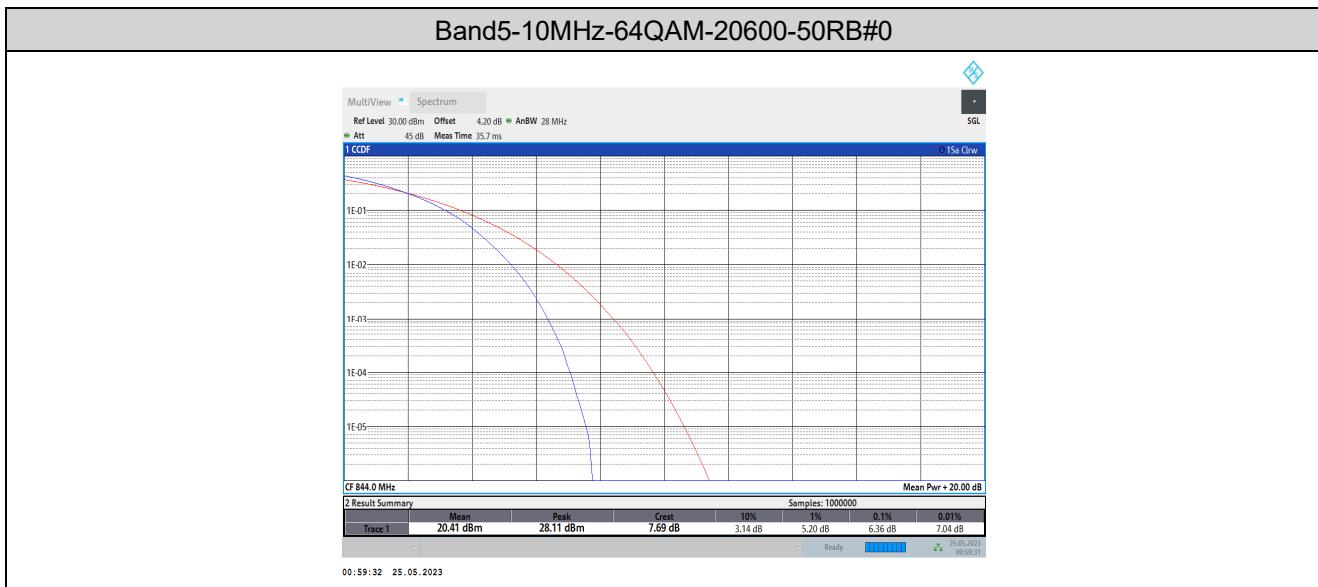
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## Modulation Characteristics

## Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band5	10MHz	QPSK	20525	50RB#0	PASS	PASS
Band5	10MHz	16QAM	20525	50RB#0	PASS	PASS
Band5	10MHz	64QAM	20525	50RB#0	PASS	PASS

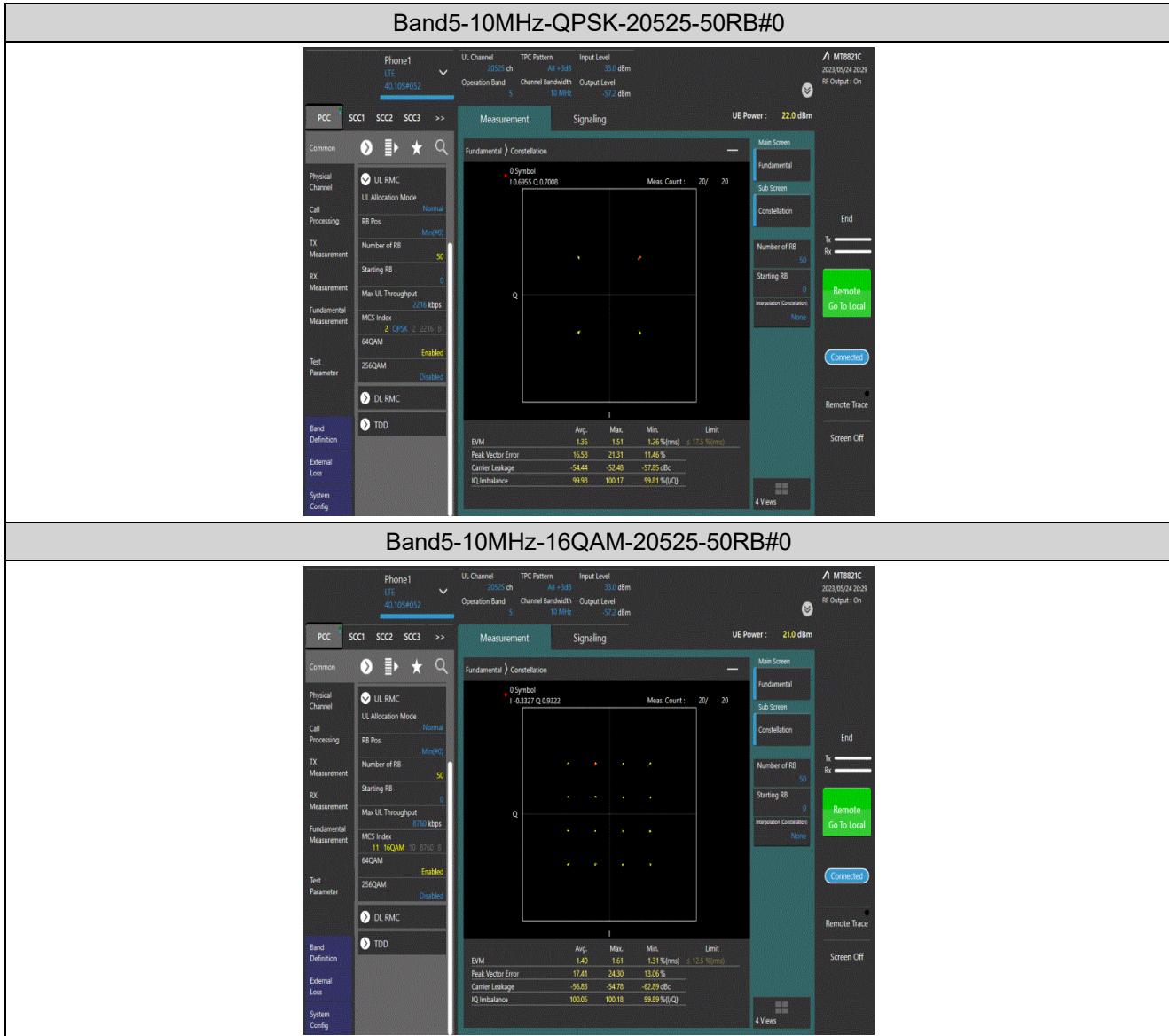
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 Page: 14 of 62

## Test Graphs



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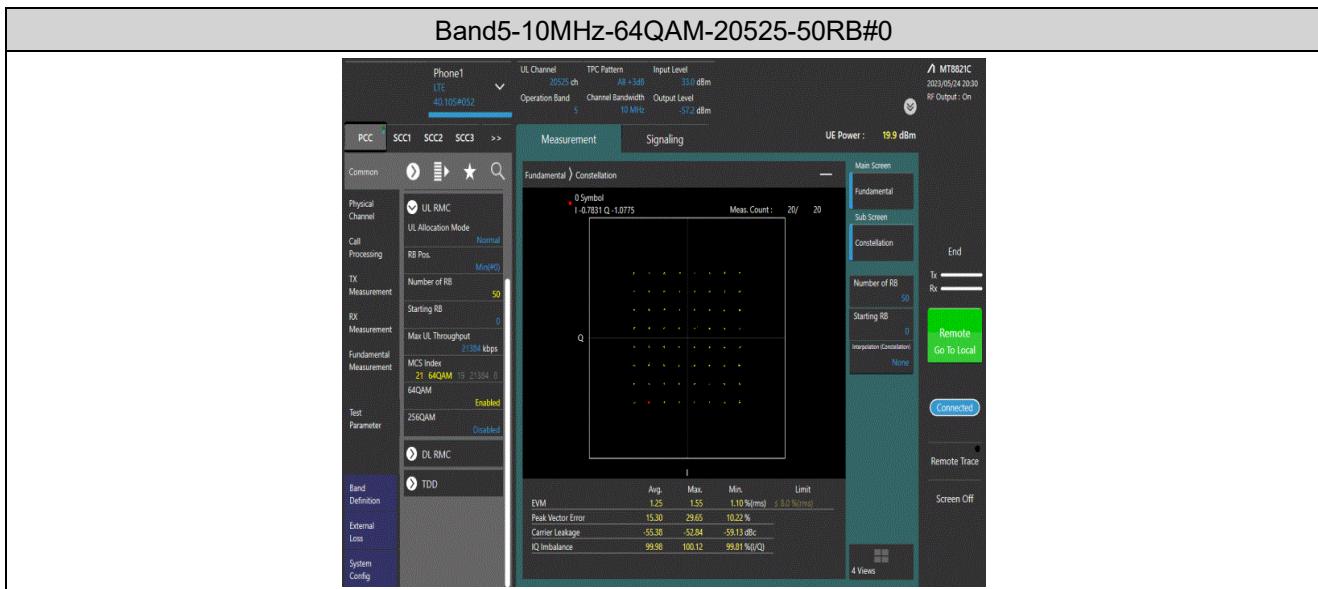


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Rev.: 01  
Page: 16 of 62

## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.086	1.27	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.087	1.28	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.086	1.28	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.095	1.27	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.090	1.29	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.093	1.28	PASS
Band5	1.4MHz	64QAM	20407	6RB#0	1.094	1.27	PASS
Band5	1.4MHz	64QAM	20525	6RB#0	1.091	1.27	PASS
Band5	1.4MHz	64QAM	20643	6RB#0	1.096	1.29	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.692	2.90	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.687	2.92	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.694	2.93	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.689	2.93	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.692	2.93	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.682	2.88	PASS
Band5	3MHz	64QAM	20415	15RB#0	2.684	2.93	PASS
Band5	3MHz	64QAM	20525	15RB#0	2.681	2.89	PASS
Band5	3MHz	64QAM	20635	15RB#0	2.689	2.93	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.470	4.81	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.81	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.468	4.81	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.461	4.79	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.458	4.76	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.457	4.78	PASS
Band5	5MHz	64QAM	20425	25RB#0	4.478	4.82	PASS
Band5	5MHz	64QAM	20525	25RB#0	4.468	4.85	PASS
Band5	5MHz	64QAM	20625	25RB#0	4.456	4.79	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.938	9.56	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.930	9.58	PASS

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Rev.: 01

Page: 17 of 62

Band5	10MHz	QPSK	20600	50RB#0	8.950	9.48	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.947	9.54	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.942	9.52	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.943	9.56	PASS
Band5	10MHz	64QAM	20450	50RB#0	8.931	9.60	PASS
Band5	10MHz	64QAM	20525	50RB#0	8.950	9.44	PASS
Band5	10MHz	64QAM	20600	50RB#0	8.957	9.48	PASS



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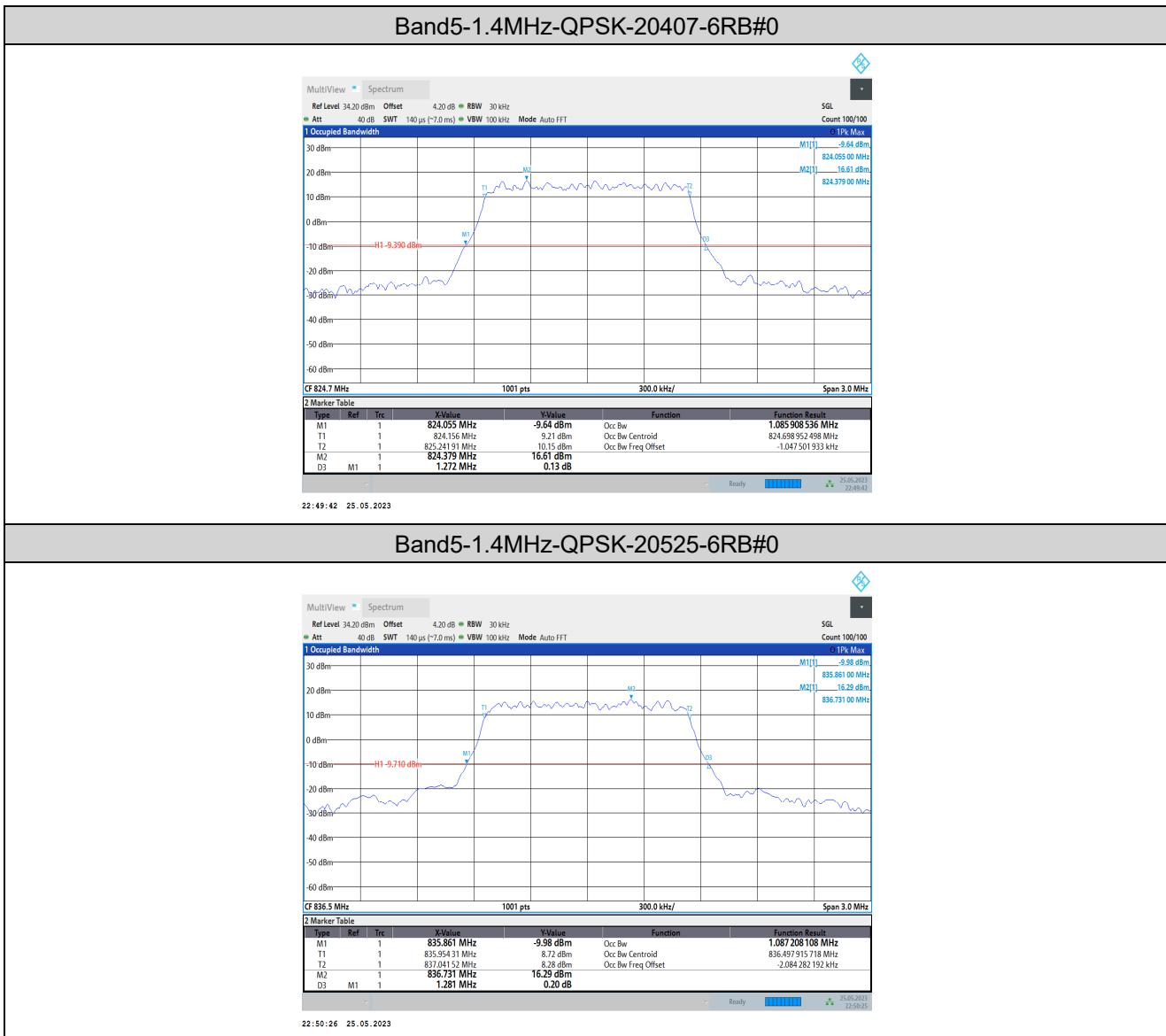
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 Rev.: 01  
 Page: 18 of 62

## Test Graphs



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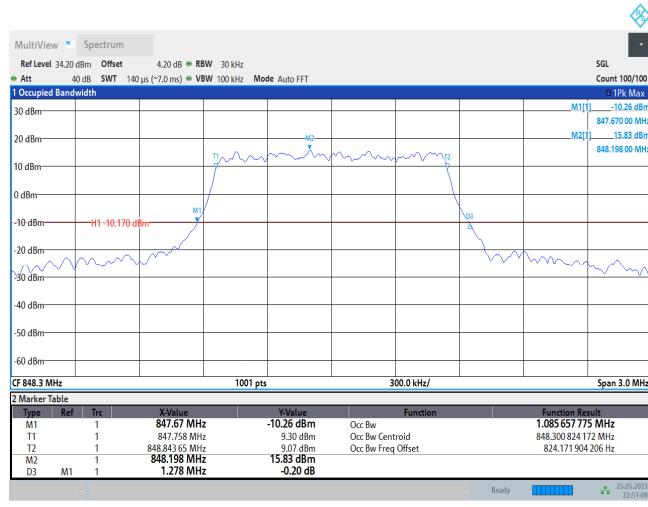
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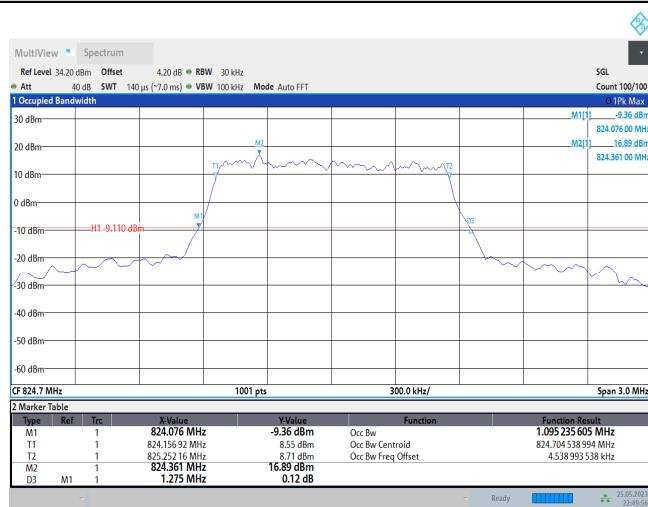
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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 19 of 62

## Band5-1.4MHz-QPSK-20643-6RB#0



## Band5-1.4MHz-16QAM-20407-6RB#0



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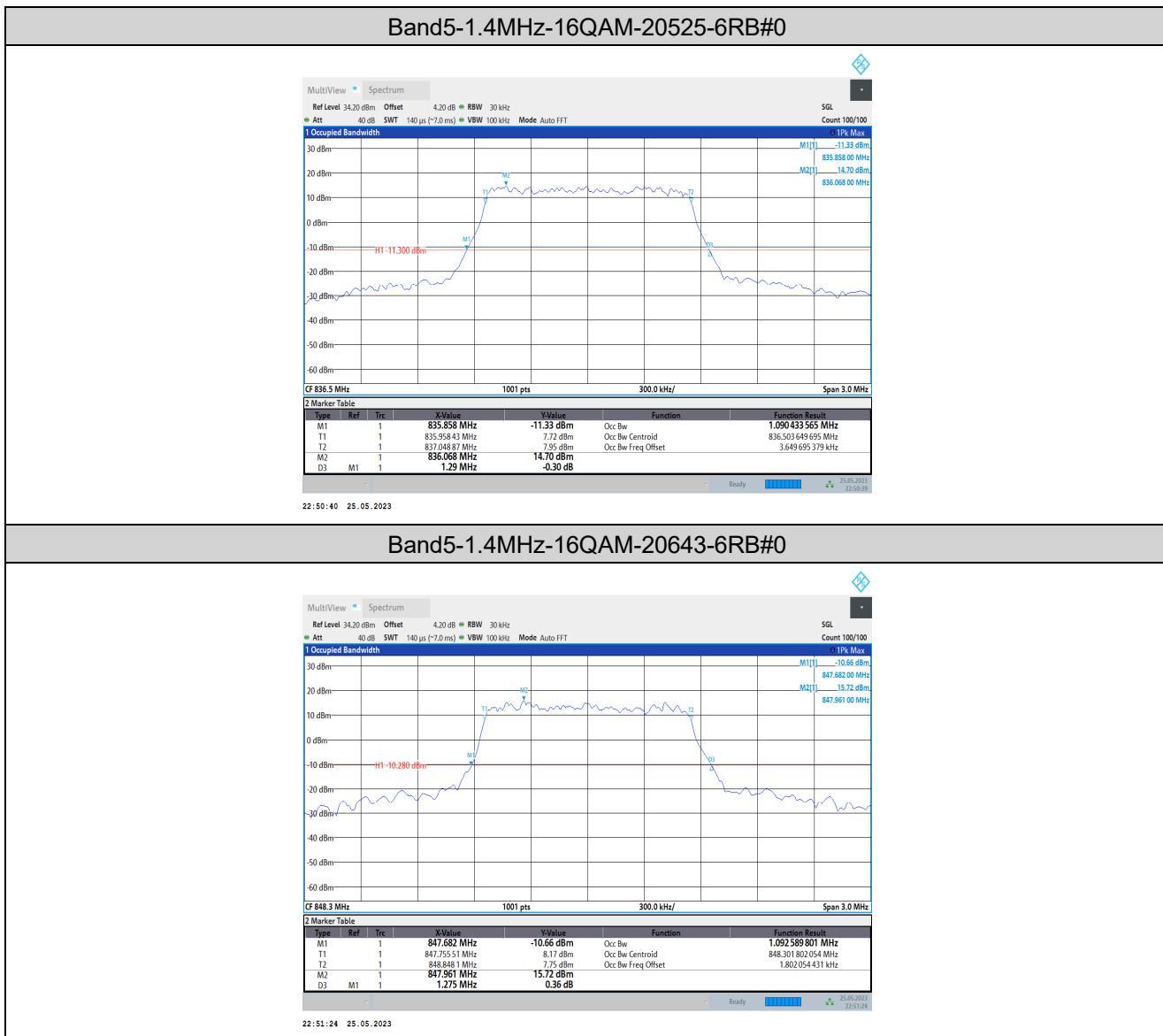


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 Rev.: 01  
 Page: 20 of 62



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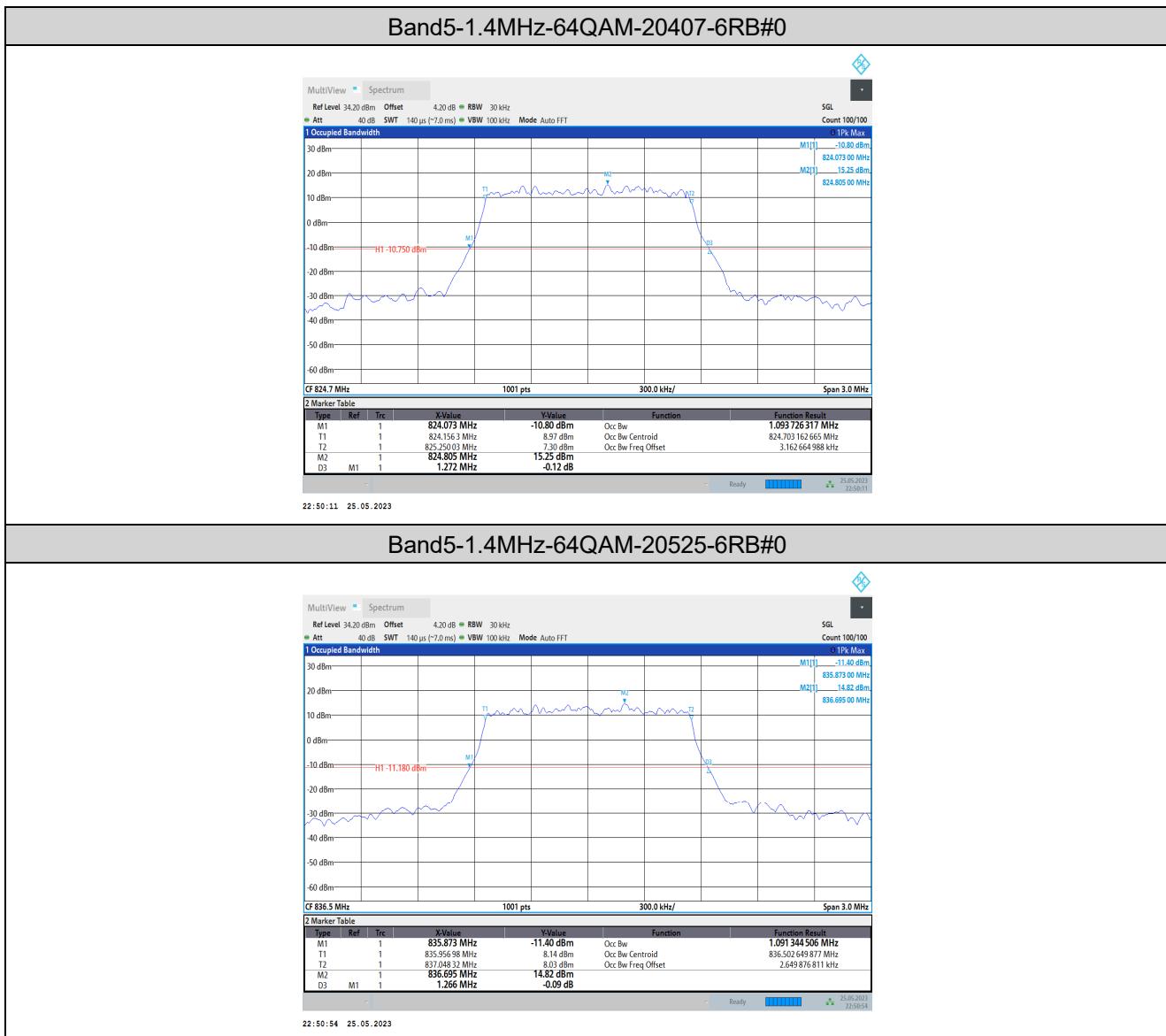


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 Rev.: 01  
 Page: 21 of 62



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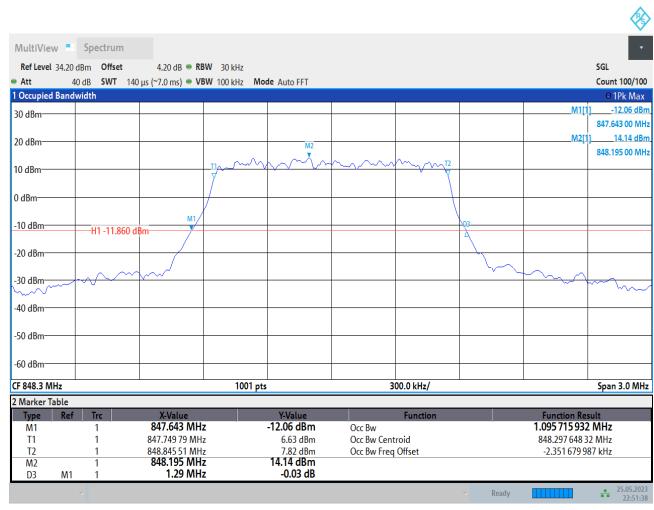


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Band5-3MHz-QPSK-20415-15RB#0

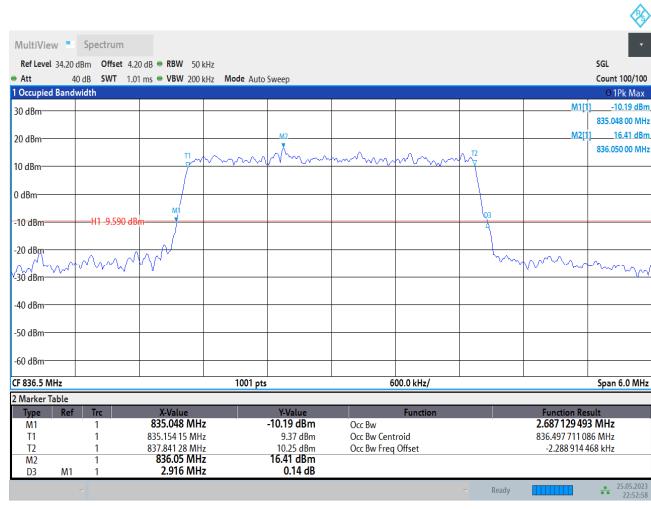


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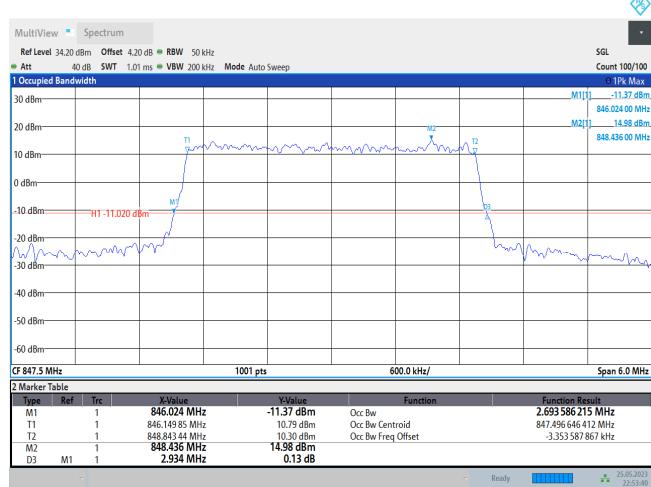
Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 23 of 62

## Band5-3MHz-QPSK-20525-15RB#0



22:53:00 25.05.2023

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22:53:40 25.05.2023

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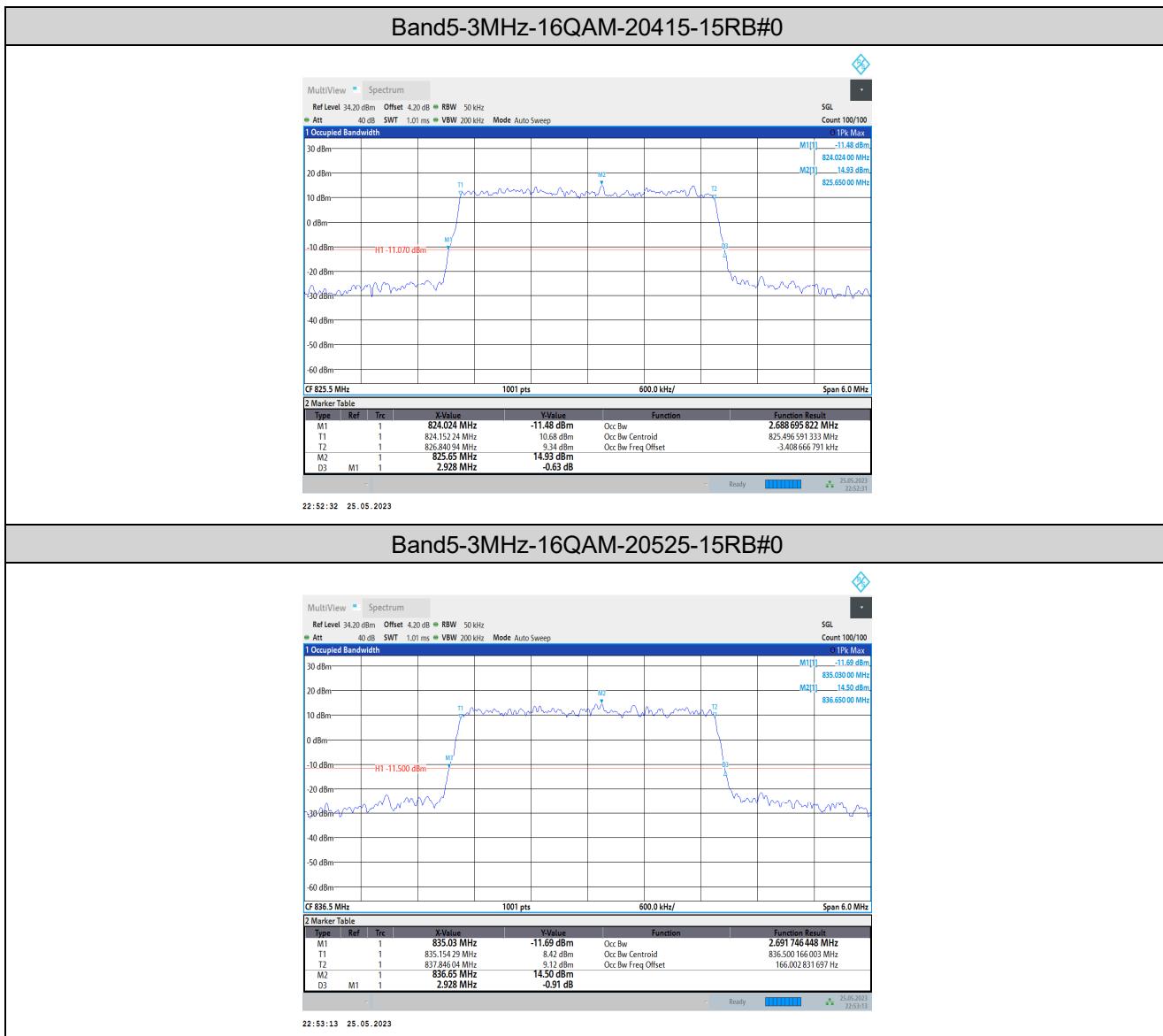


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 Rev.: 01  
 Page: 24 of 62



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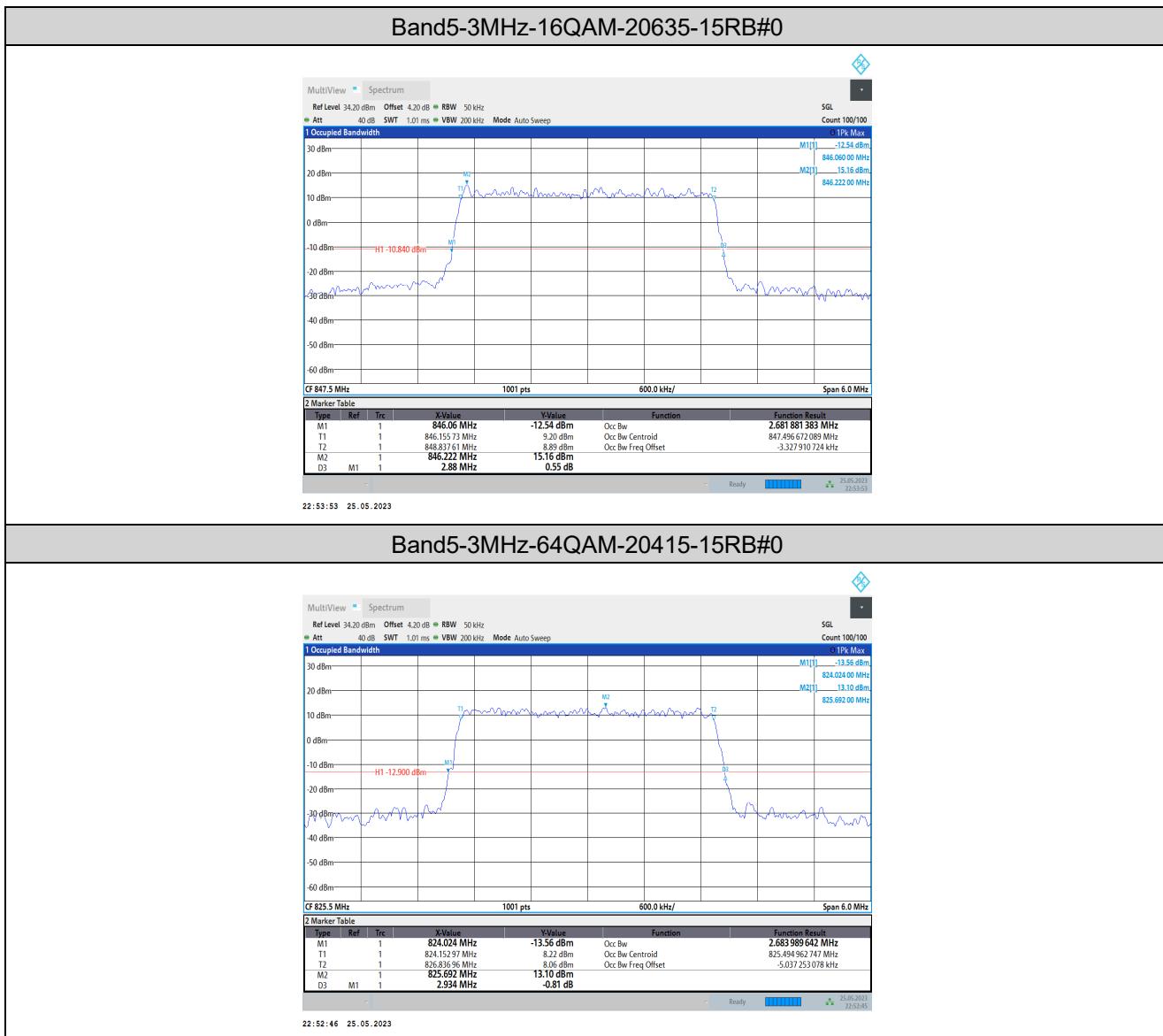


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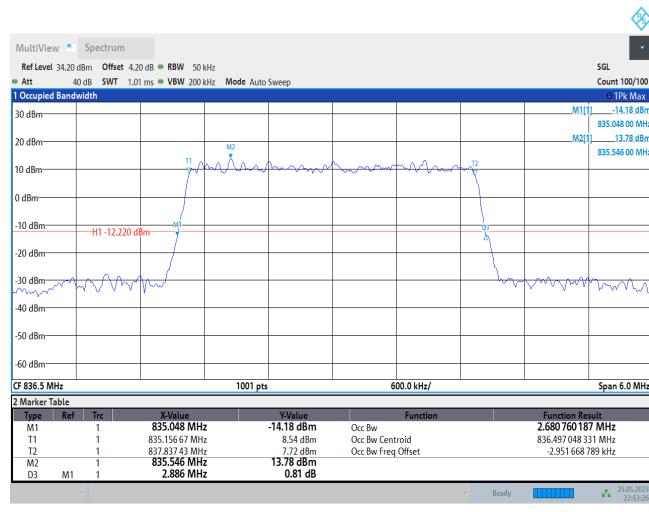
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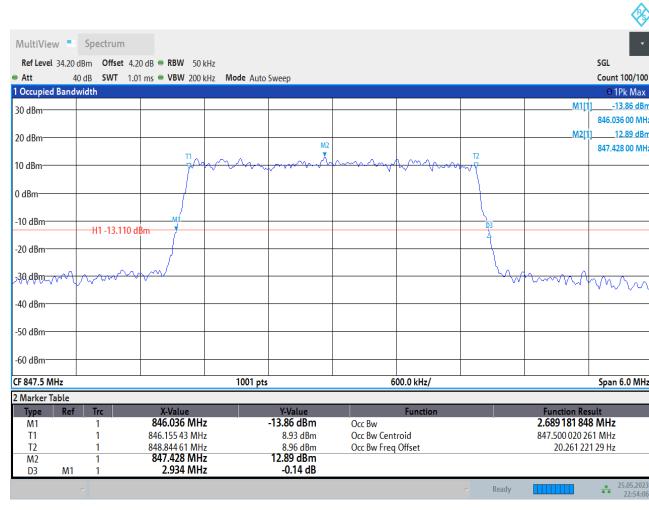
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 Rev.: 01  
 Page: 26 of 62

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22:53:26 25.05.2023

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22:54:07 25.05.2023

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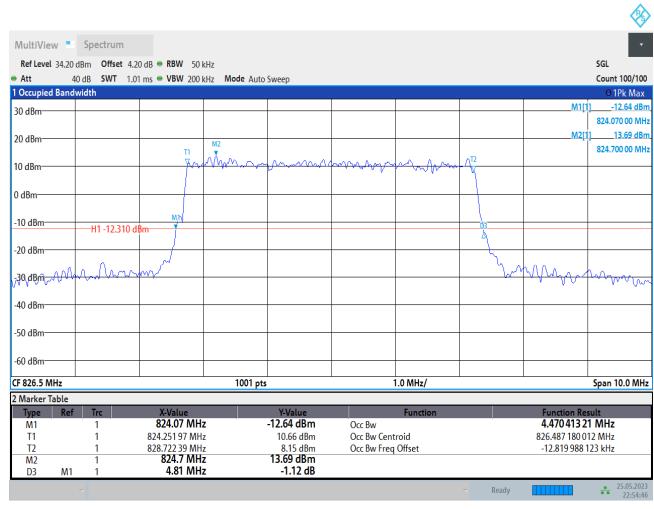
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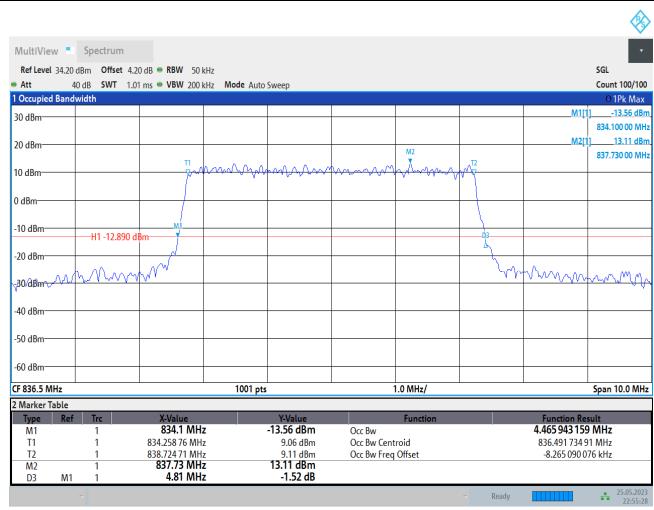
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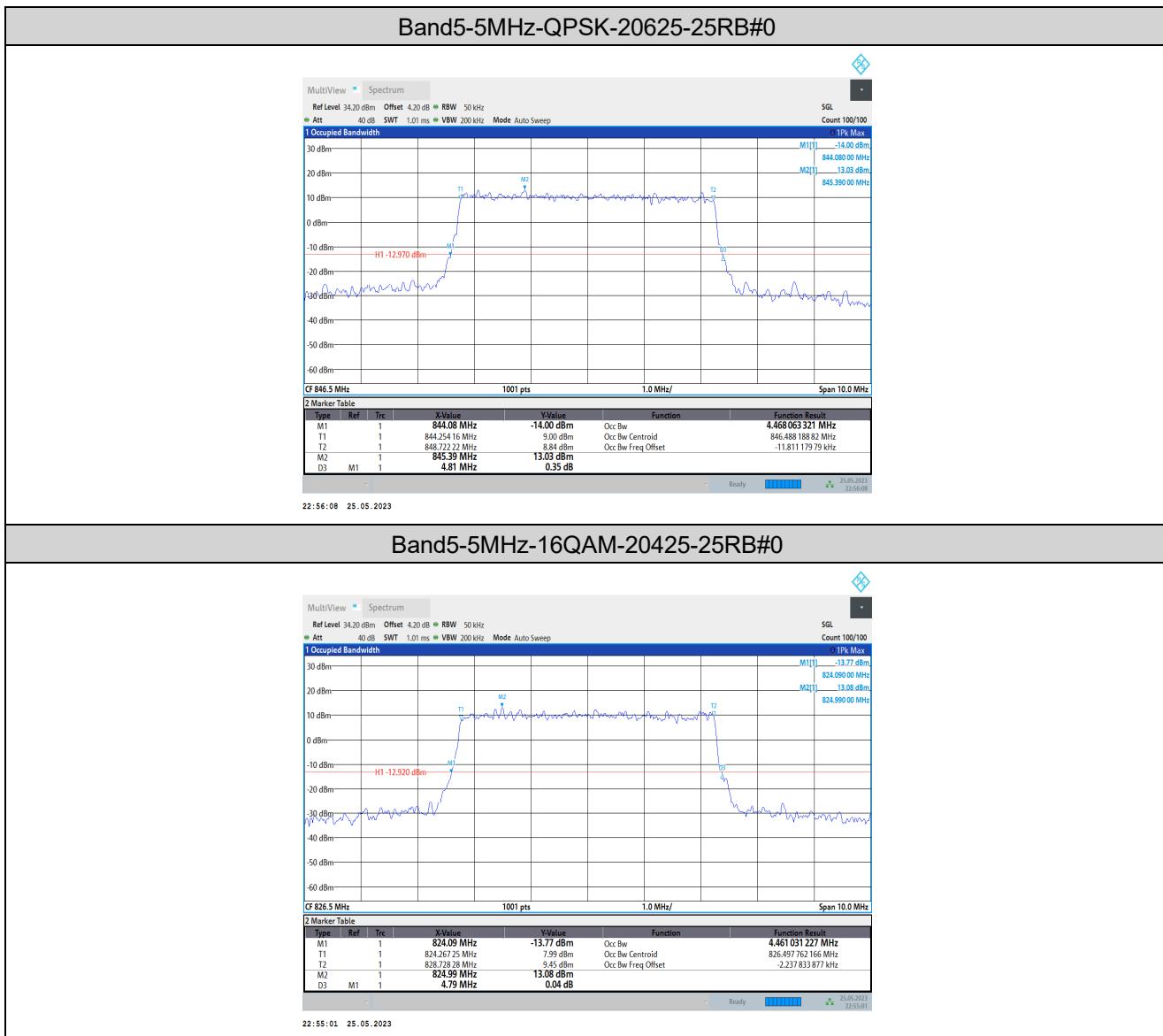


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 Rev.: 01  
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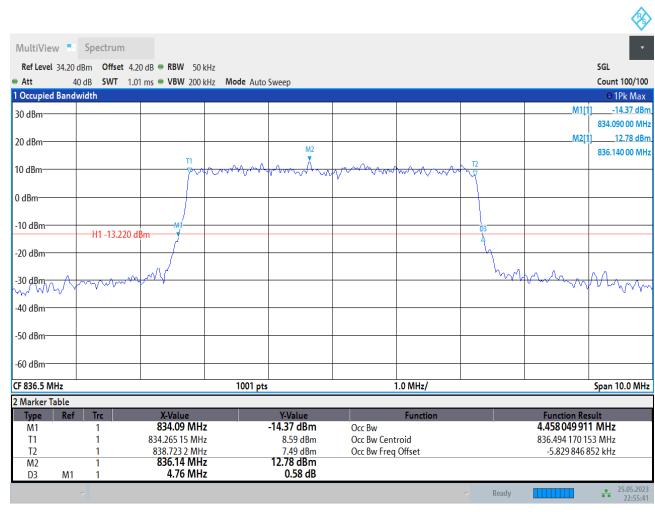
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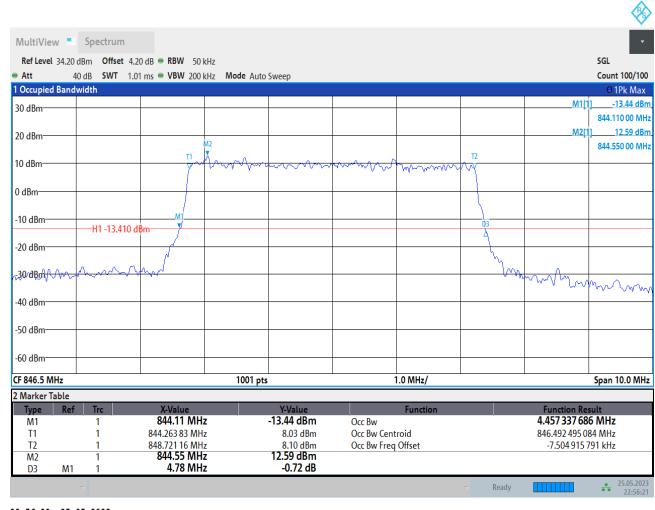
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 Rev.: 01  
 Page: 29 of 62

## Band5-5MHz-16QAM-20525-25RB#0



22:55:41 25.05.2023

## Band5-5MHz-16QAM-20625-25RB#0



22:56:22 25.05.2023

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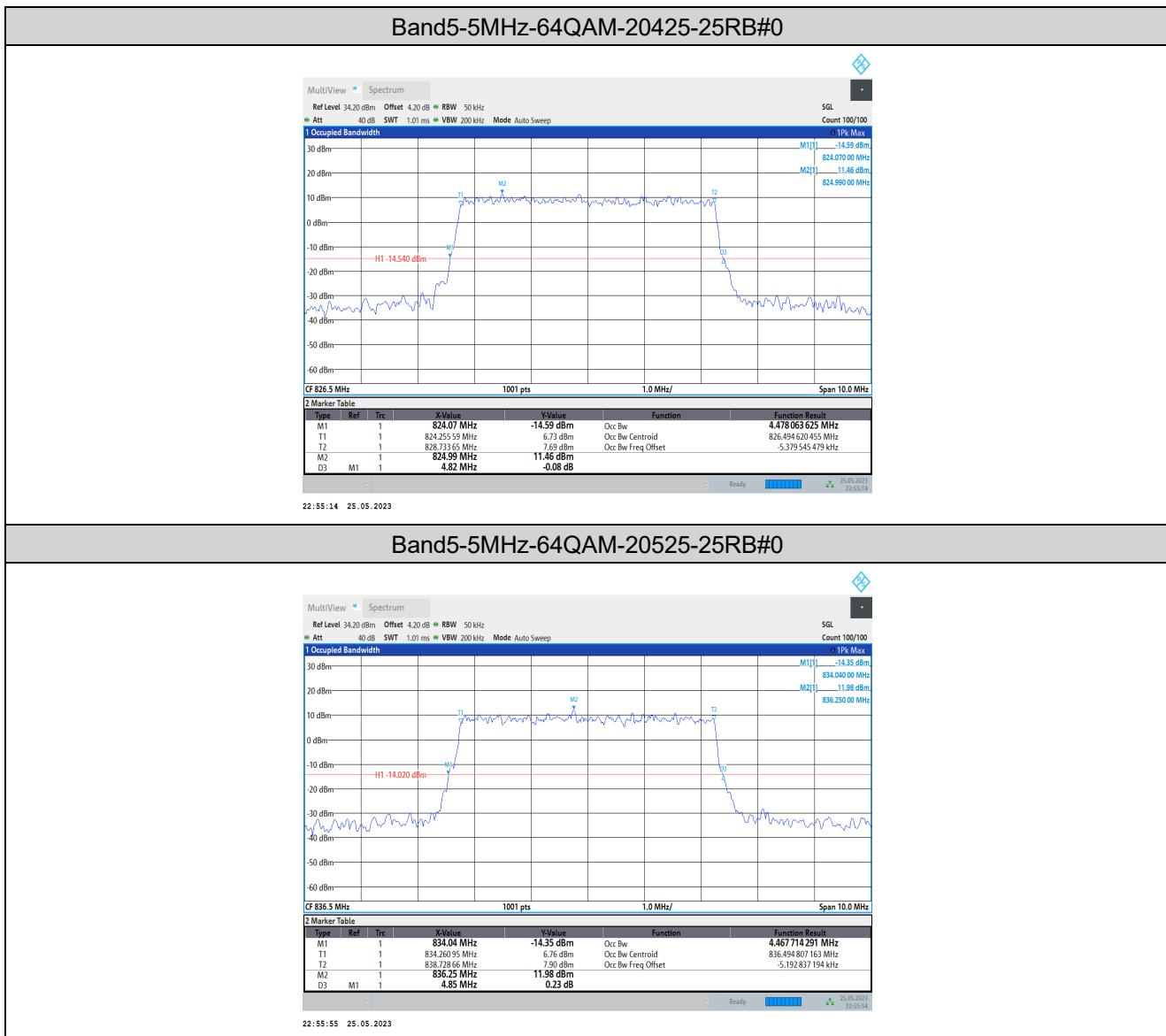


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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 30 of 62



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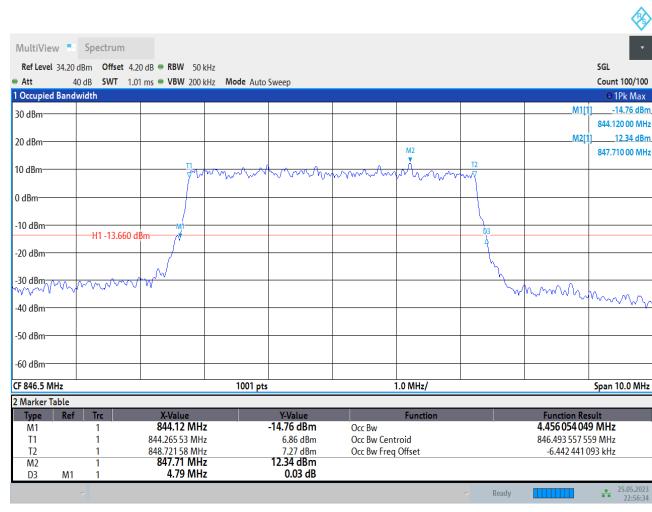
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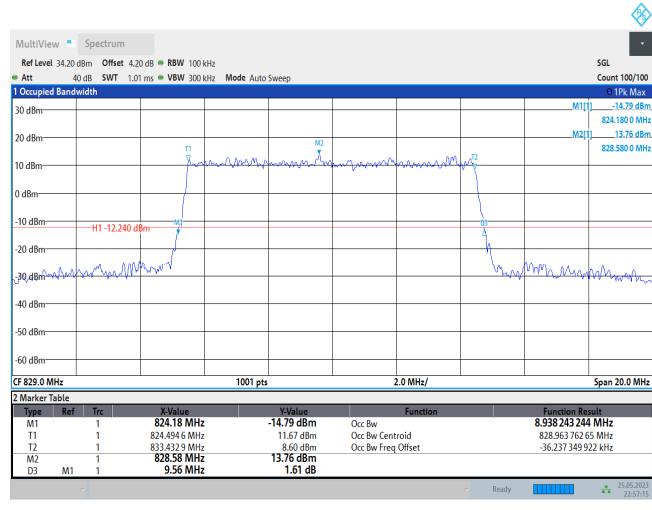
Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 31 of 62

## Band5-5MHz-64QAM-20625-25RB#0



22:56:35 25.05.2023

## Band5-10MHz-QPSK-20450-50RB#0



22:57:16 25.05.2023

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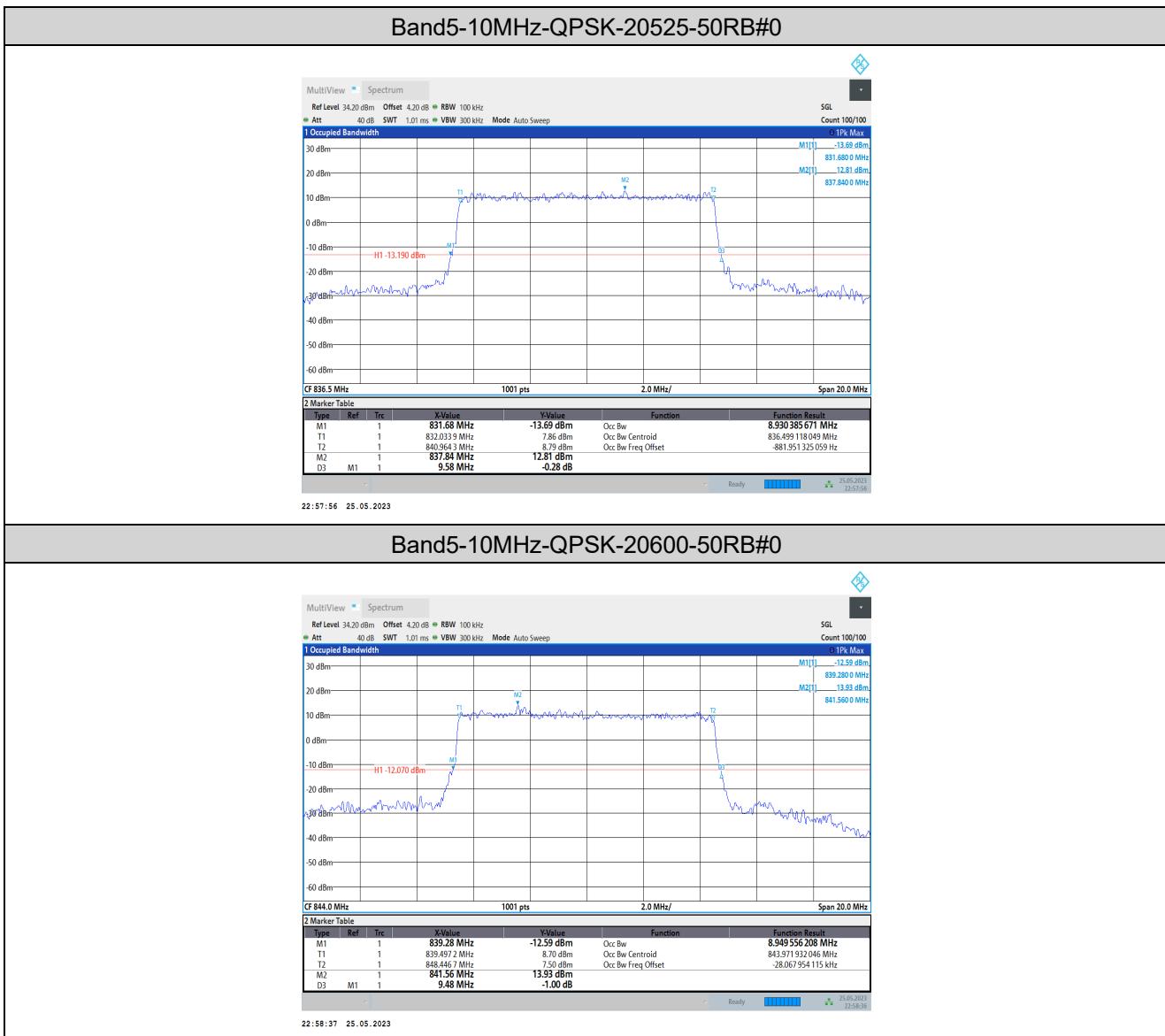


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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 32 of 62



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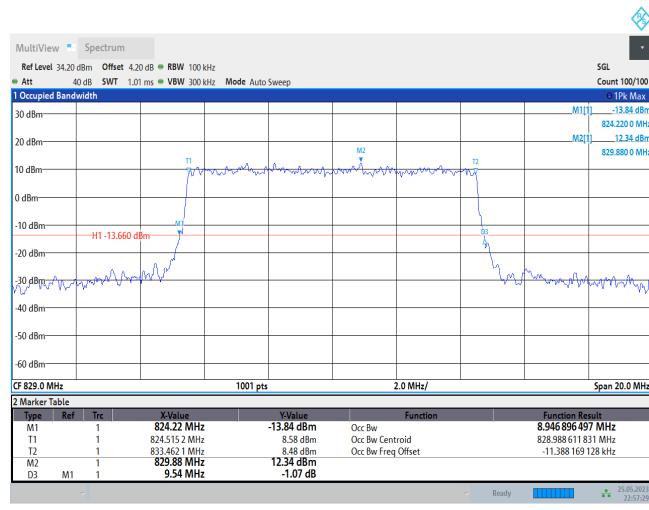
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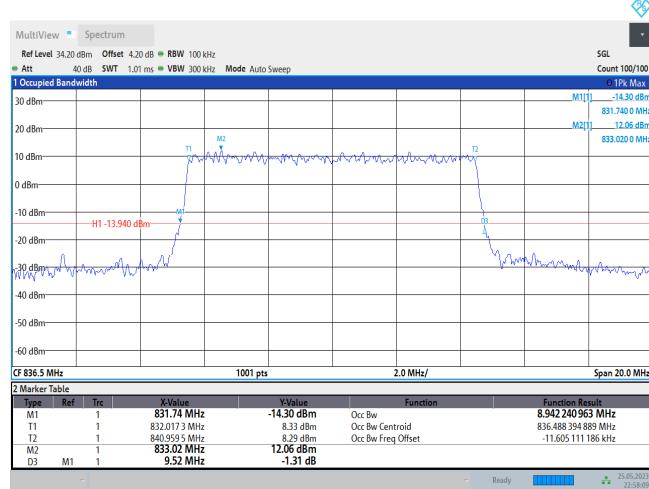
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 Rev.: 01  
 Page: 33 of 62

## Band5-10MHz-16QAM-20450-50RB#0



22:57:29 25.05.2023

## Band5-10MHz-16QAM-20525-50RB#0



22:58:10 25.05.2023

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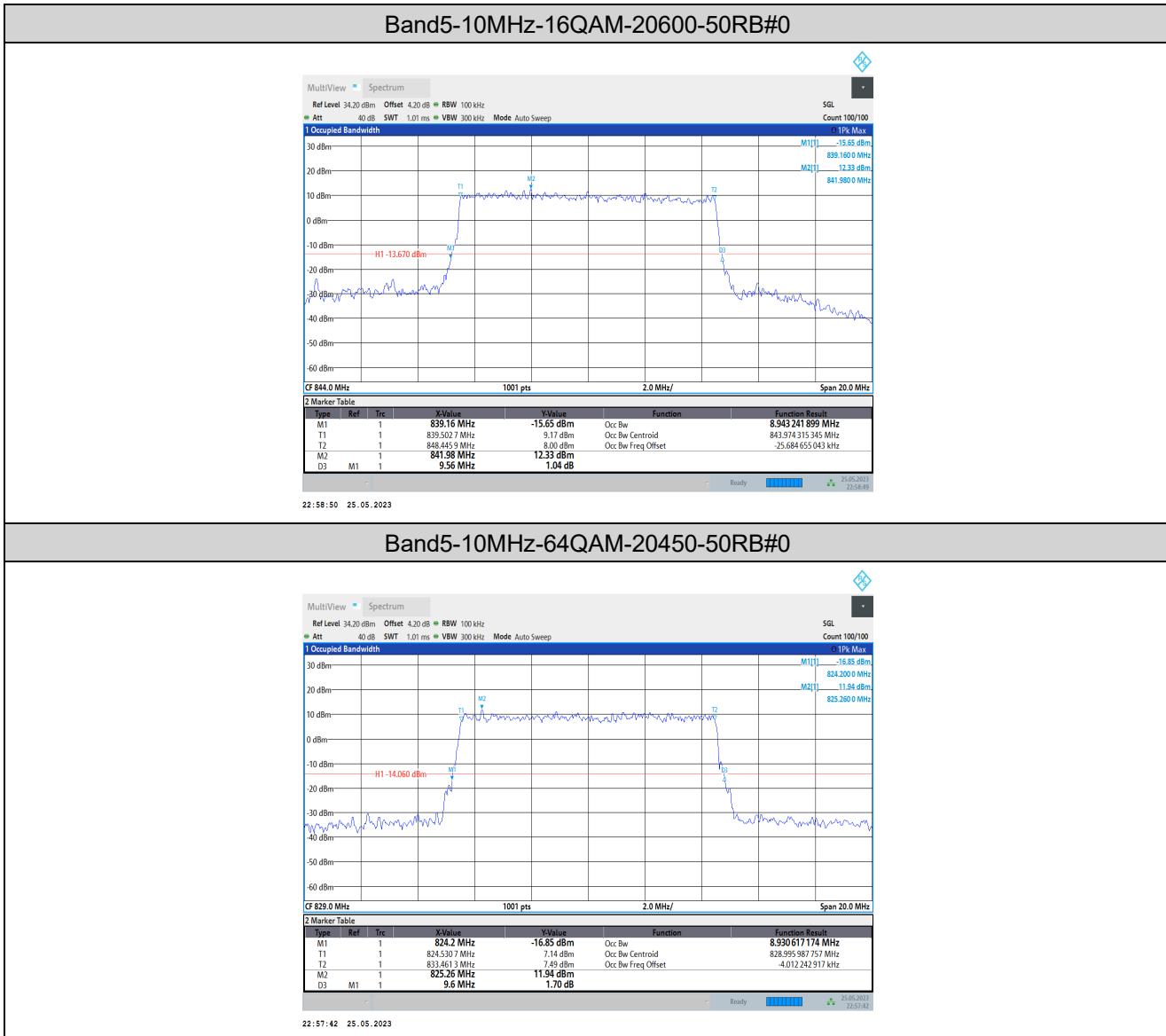


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 Page: 34 of 62



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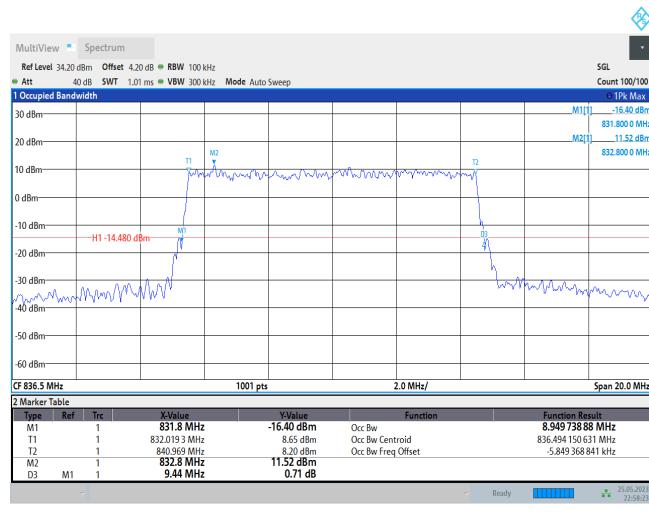
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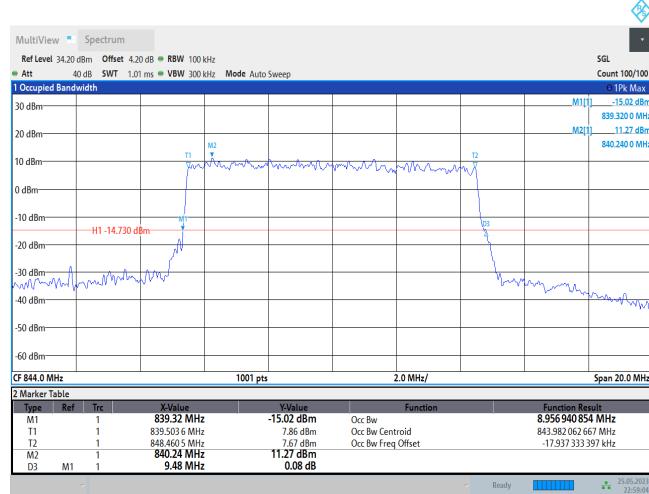
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 Rev.: 01  
 Page: 35 of 62

## Band5-10MHz-64QAM-20525-50RB#0



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## Band5-10MHz-64QAM-20600-50RB#0



22:59:04 25.05.2023

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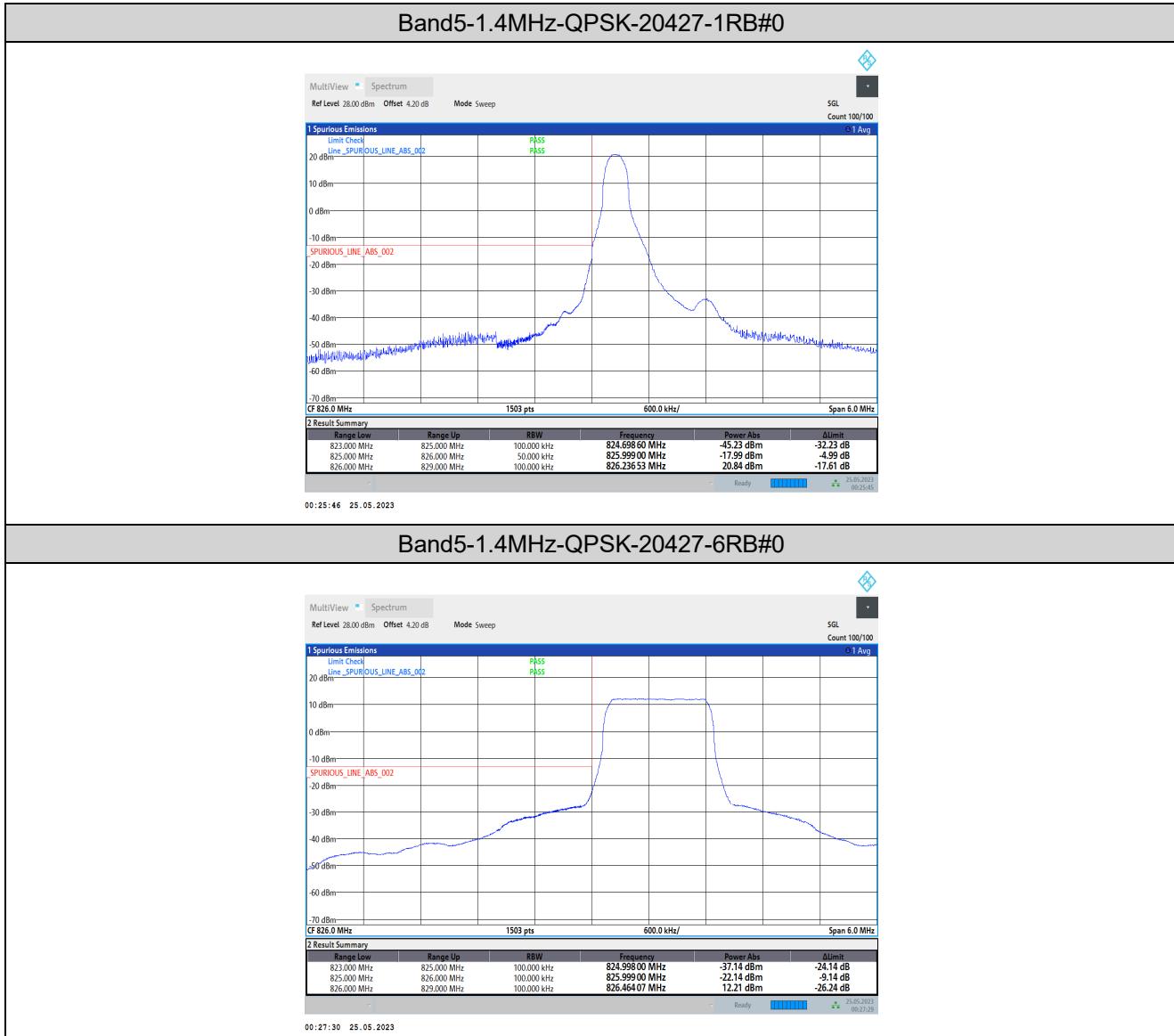
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## Band Edge

### Test Graphs



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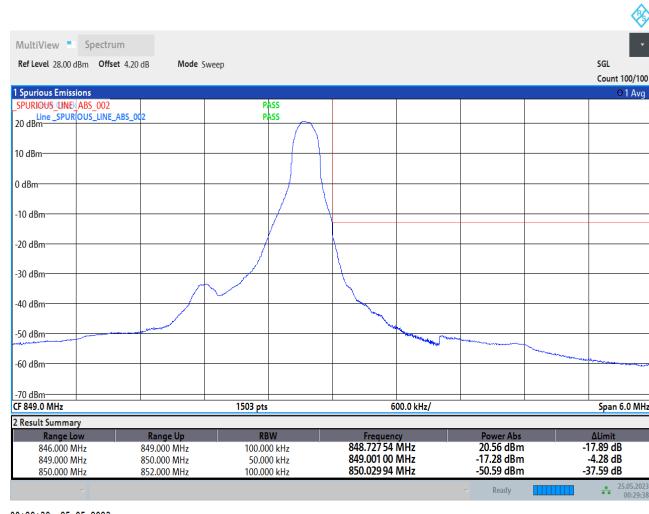
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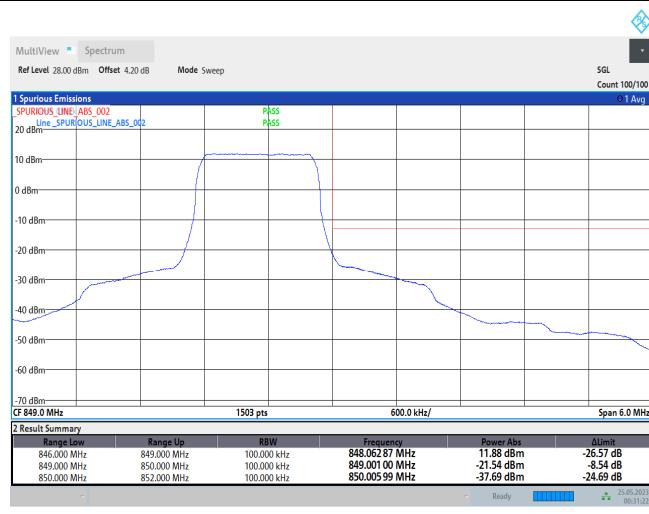
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## Band5-1.4MHz-QPSK-20643-1RB#5



## Band5-1.4MHz-QPSK-20643-6RB#0



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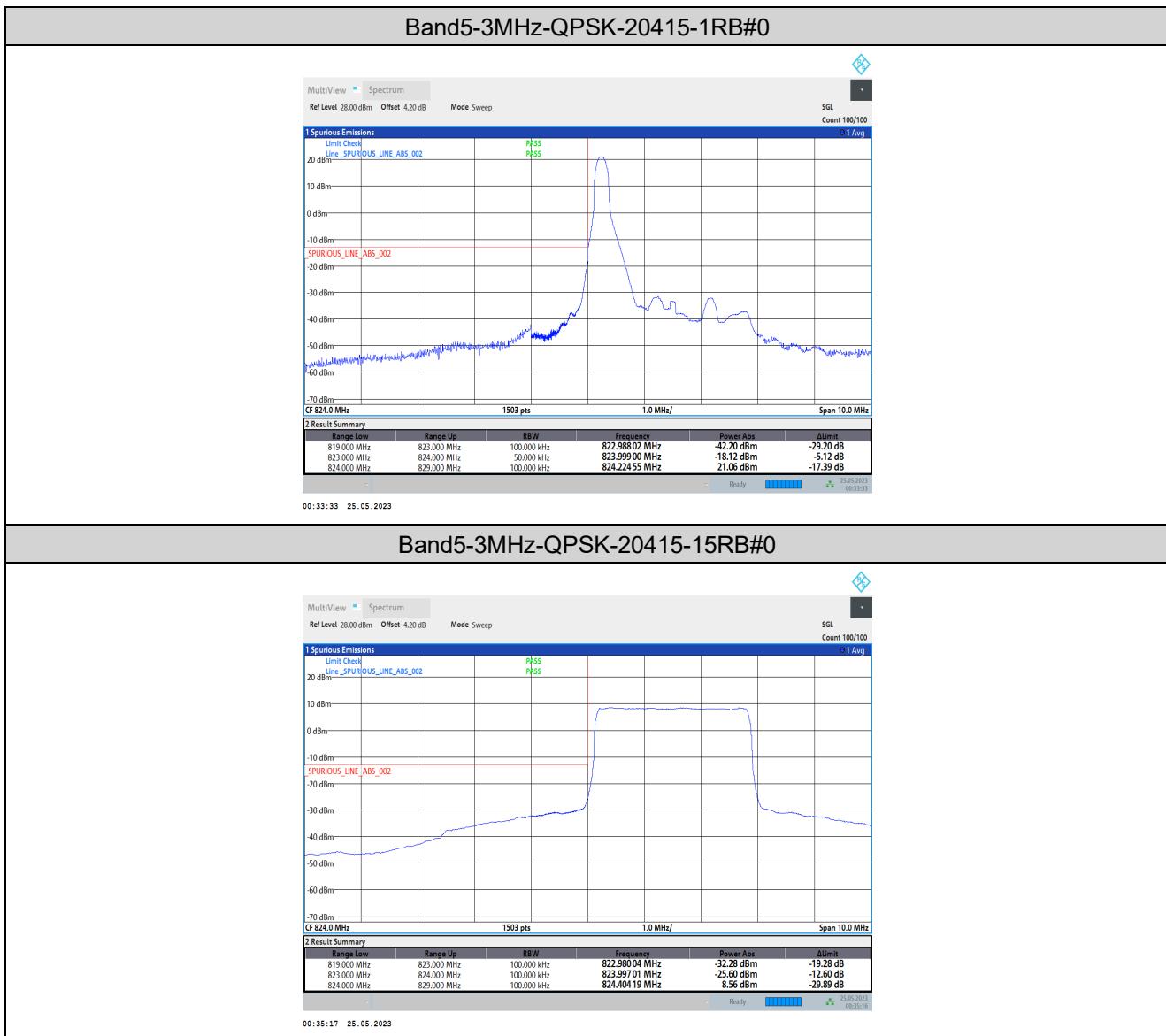
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 Rev.: 01  
 Page: 38 of 62



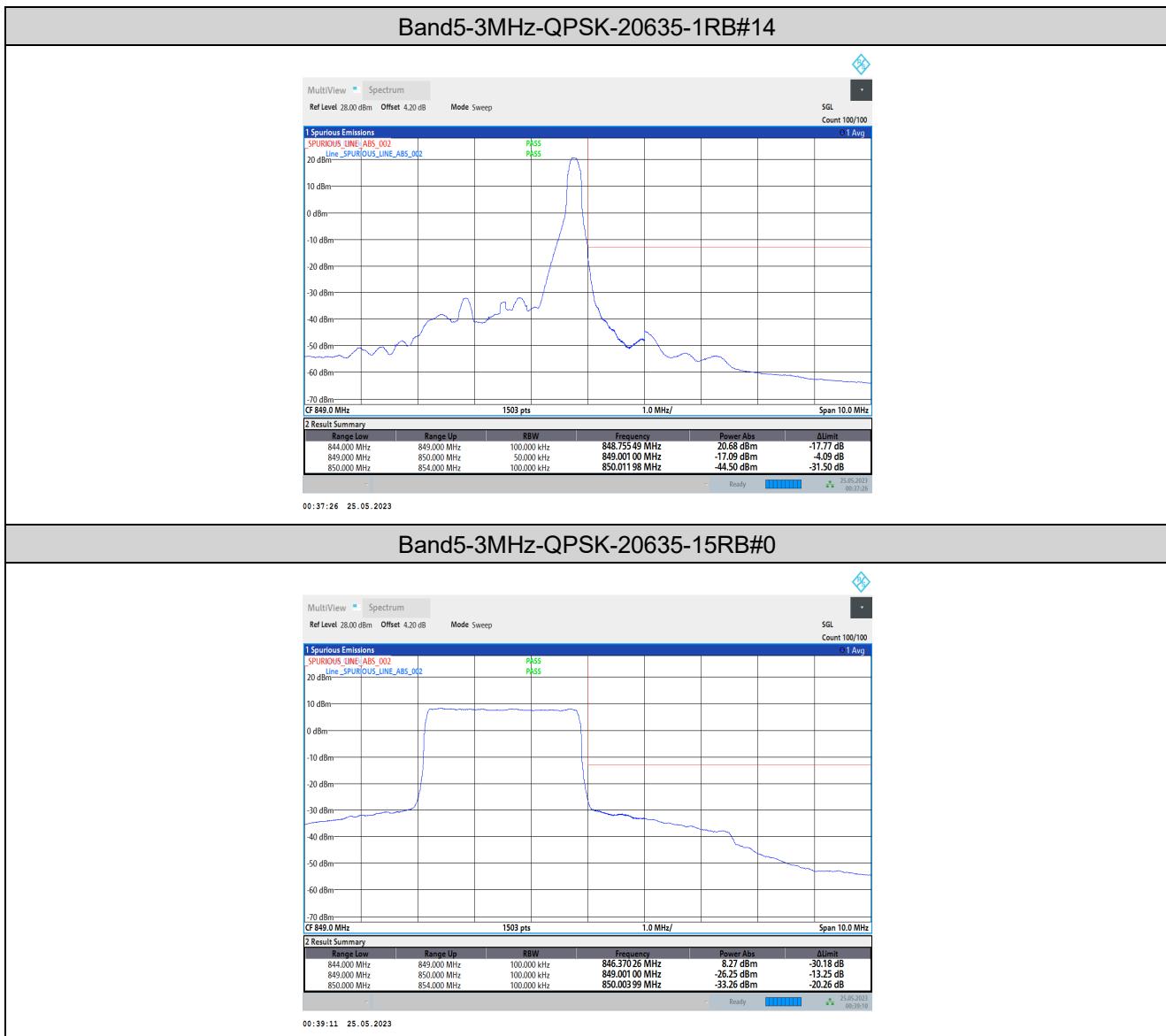
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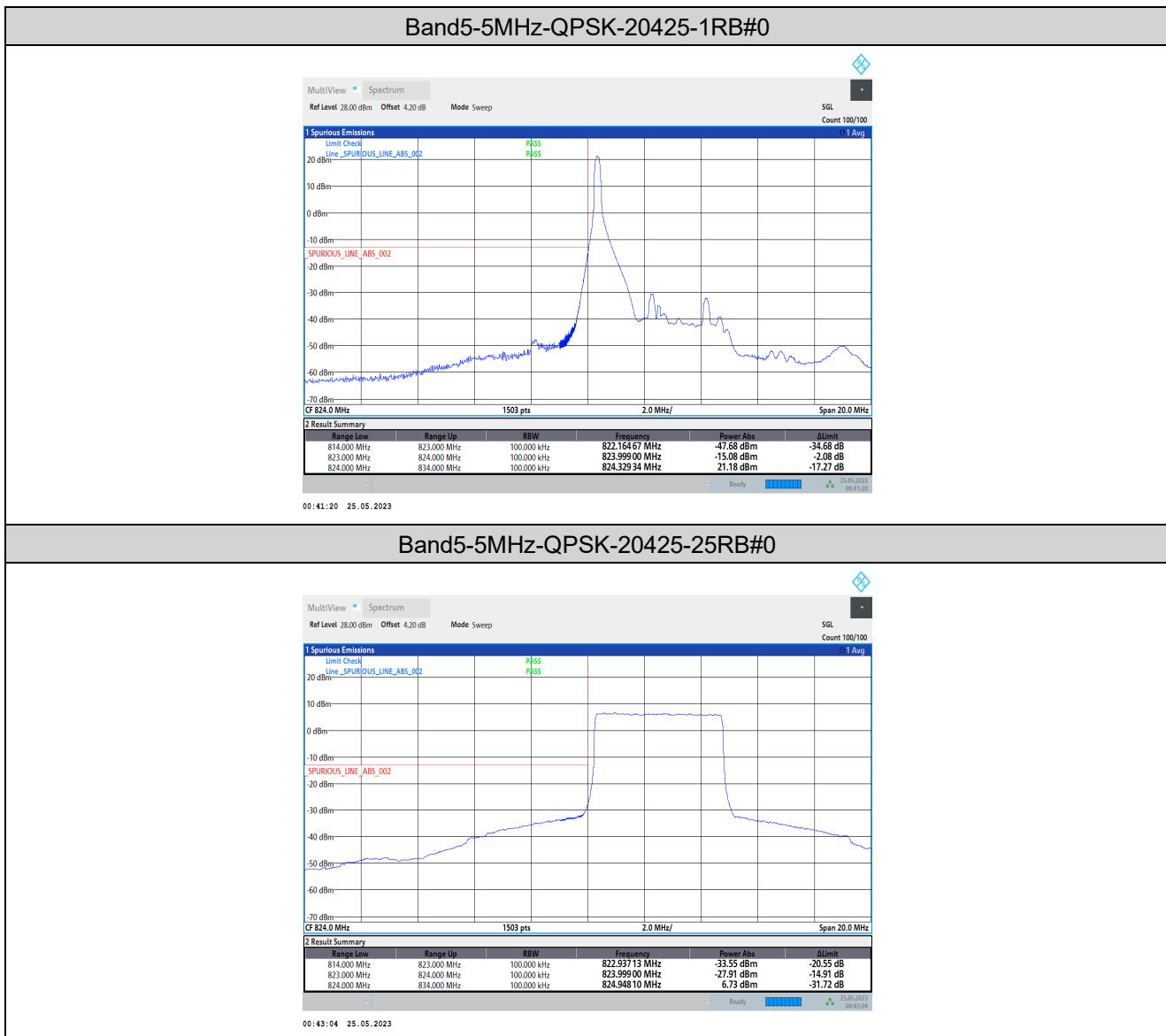


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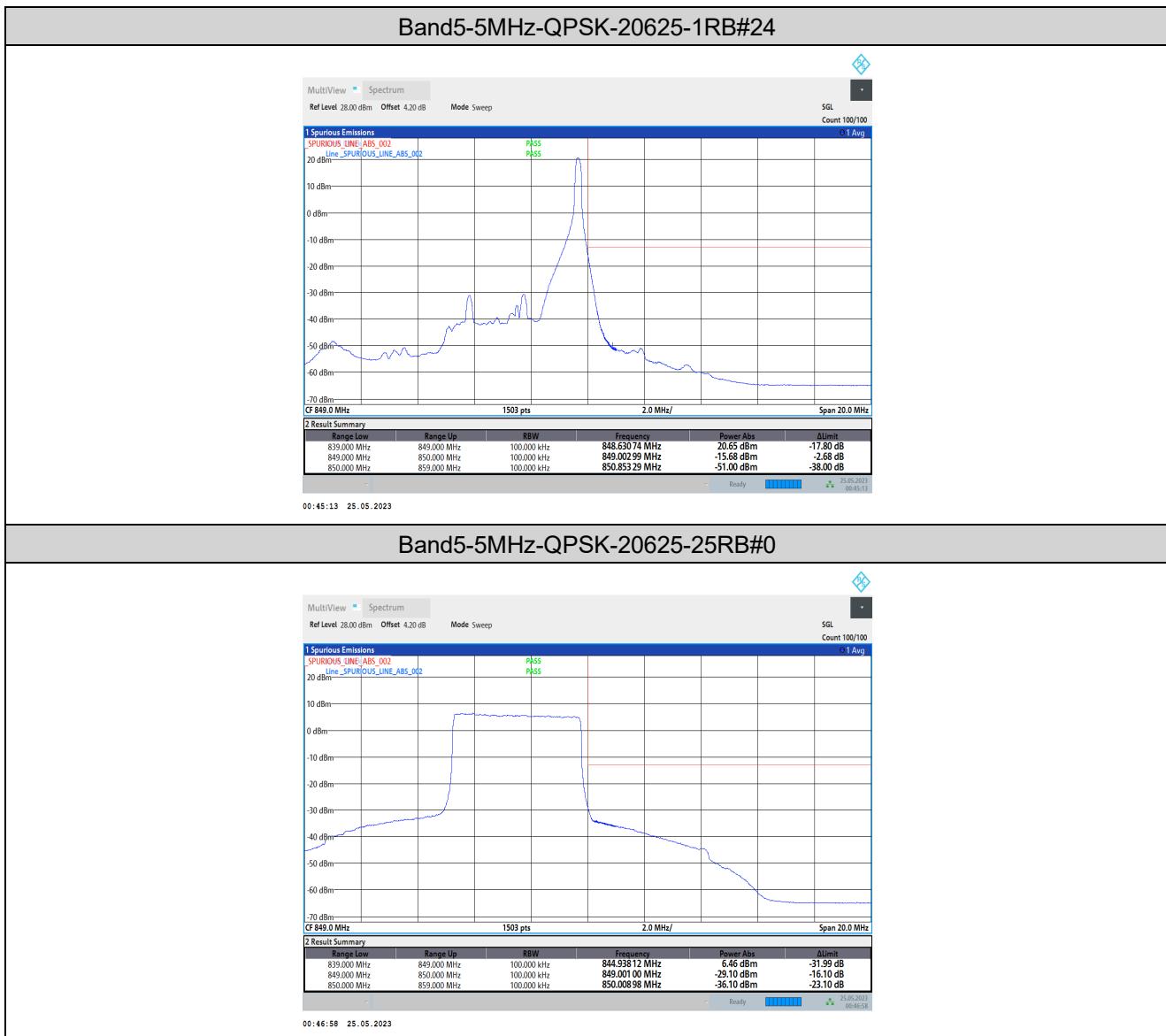


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 Rev.: 01  
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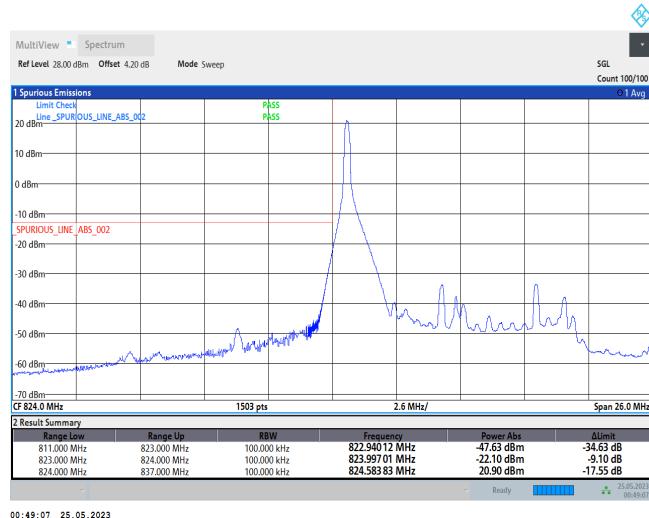
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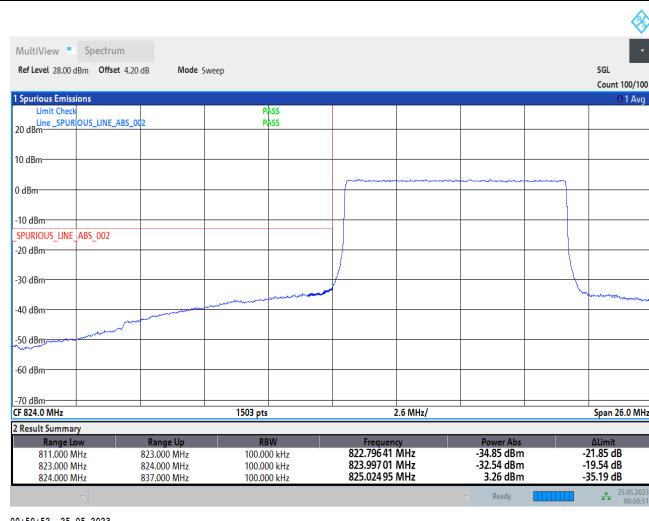
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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 42 of 62

## Band5-10MHz-QPSK-20450-1RB#0



## Band5-10MHz-QPSK-20450-50RB#0



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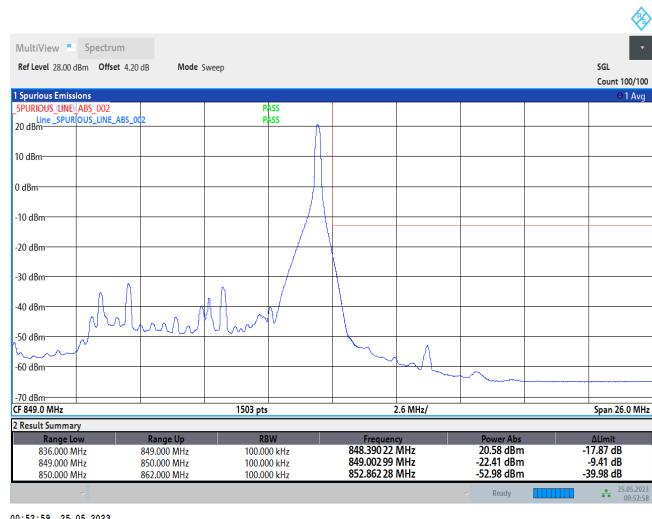
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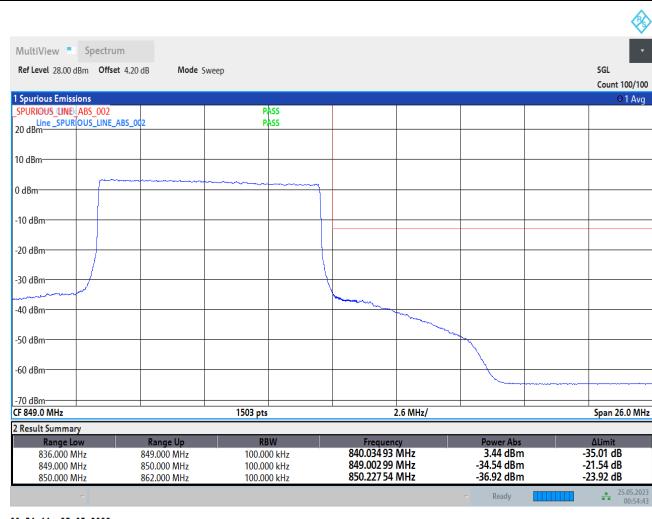
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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 43 of 62

## Band5-10MHz-QPSK-20600-1RB#49



## Band5-10MHz-QPSK-20600-50RB#0



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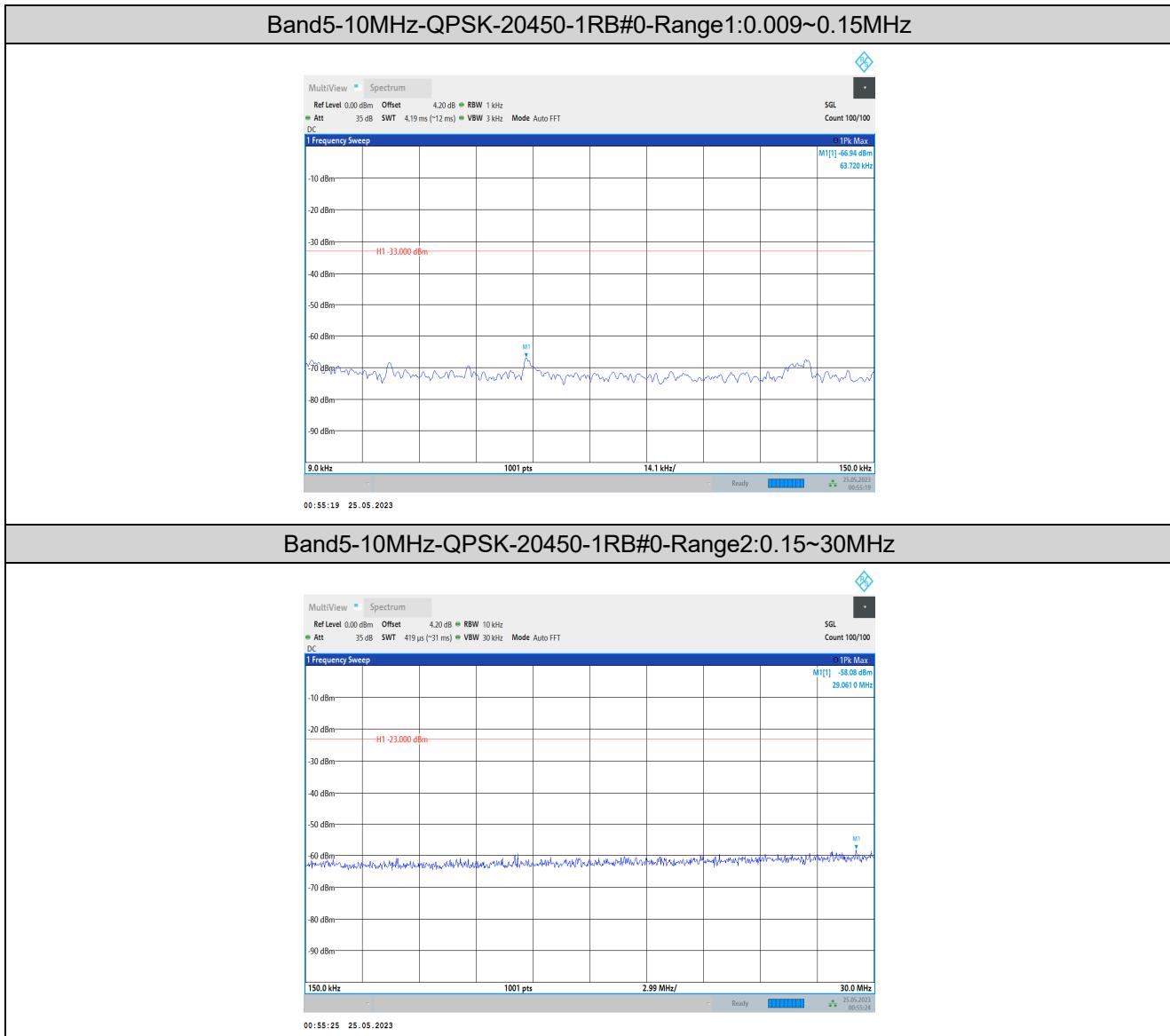
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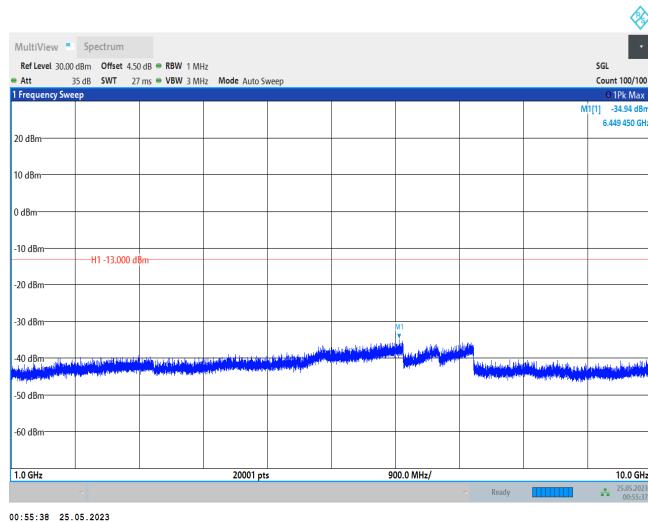
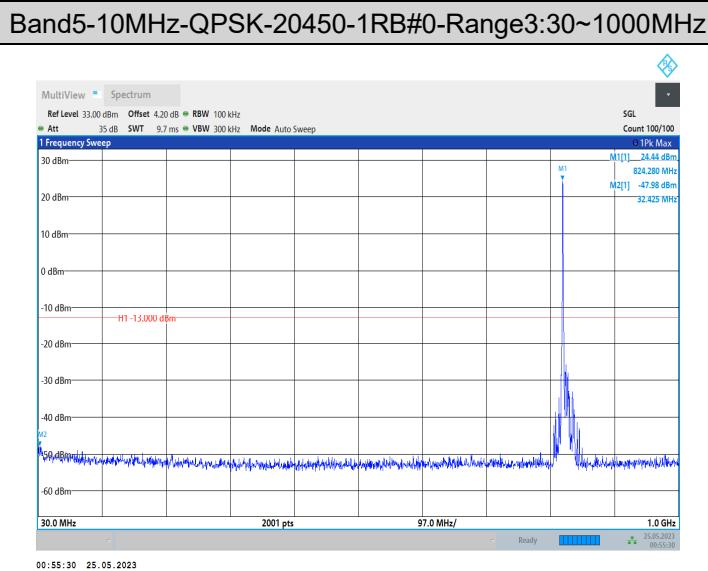
## Conducted Spurious Emission

## Test Graphs



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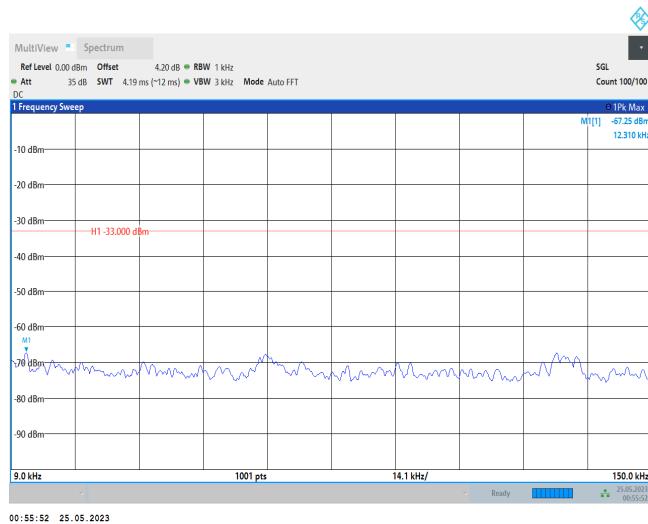


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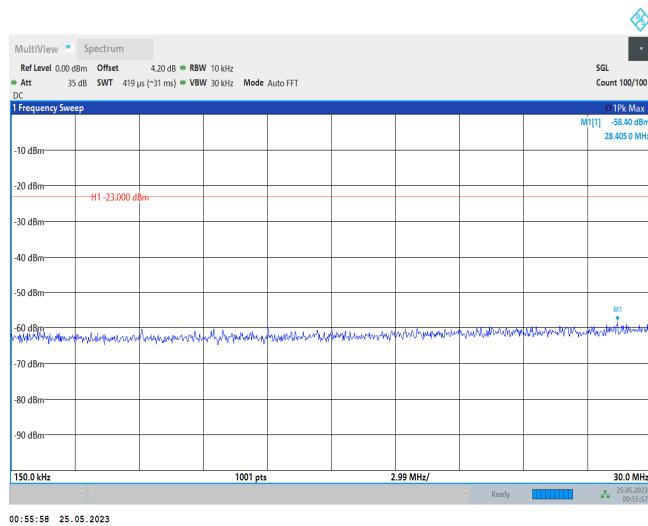


Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 46 of 62

### Band5-10MHz-QPSK-20525-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20525-1RB#0-Range2:0.15~30MHz



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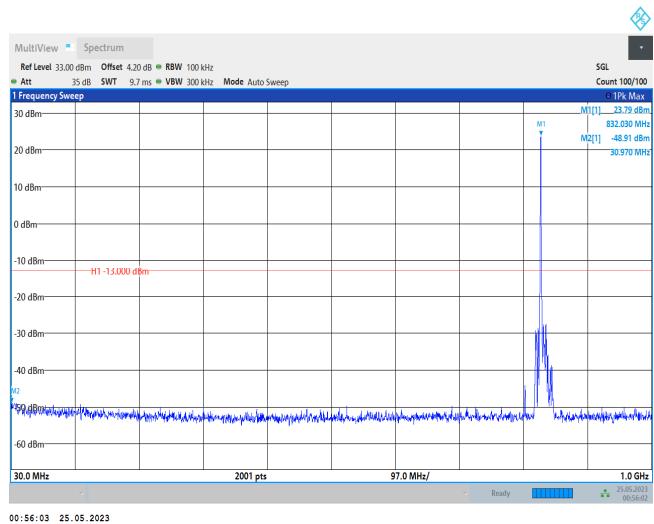


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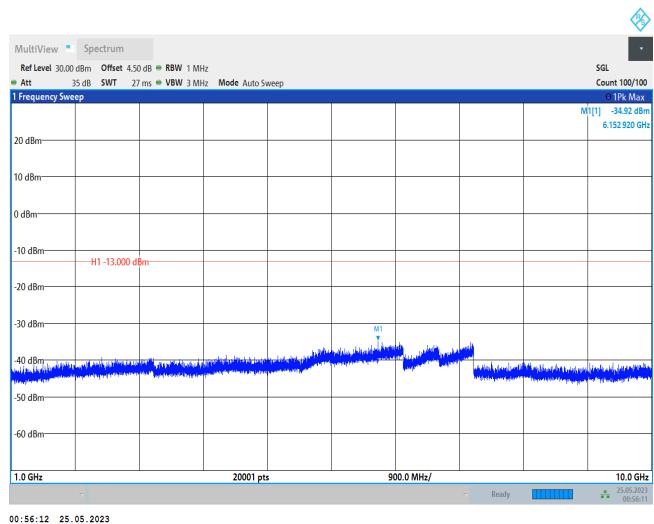
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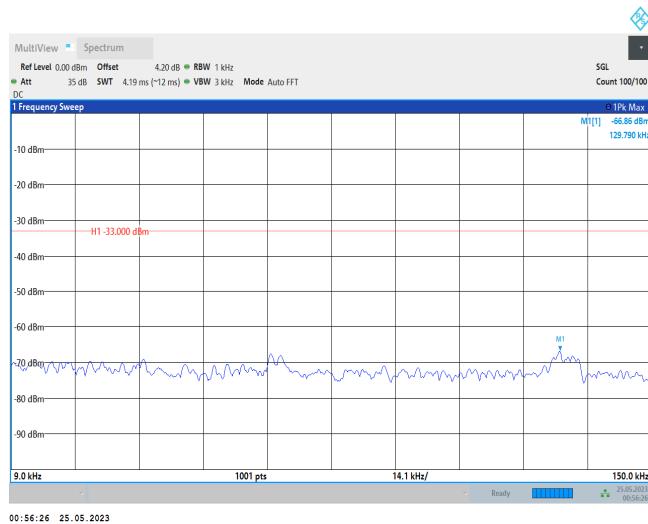


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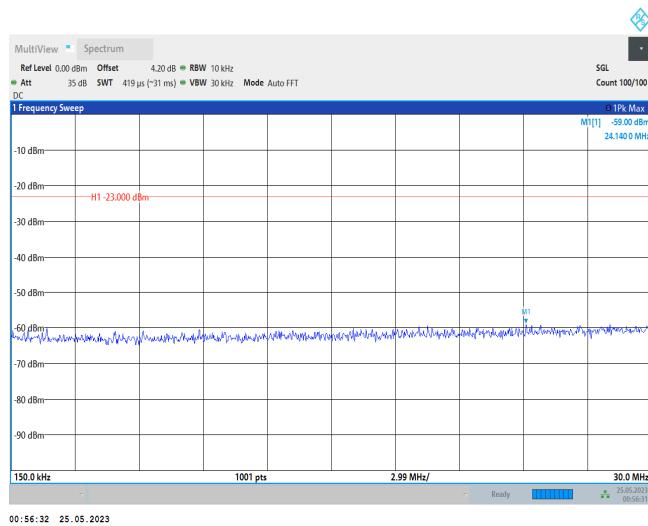


Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 48 of 62

### Band5-10MHz-QPSK-20600-1RB#0-Range1:0.009~0.15MHz



### Band5-10MHz-QPSK-20600-1RB#0-Range2:0.15~30MHz



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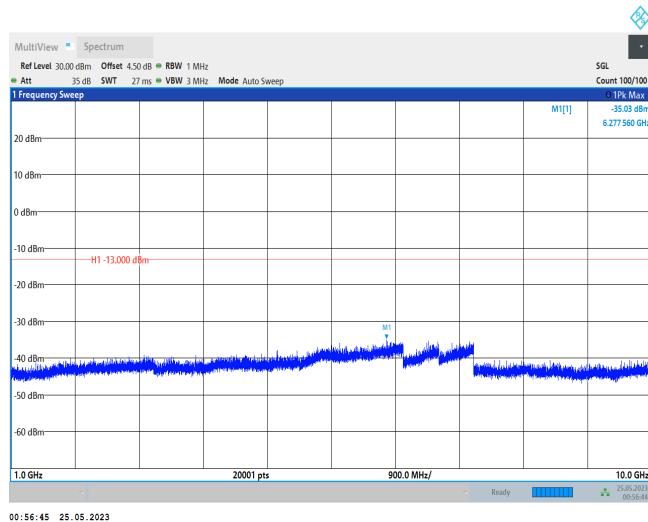
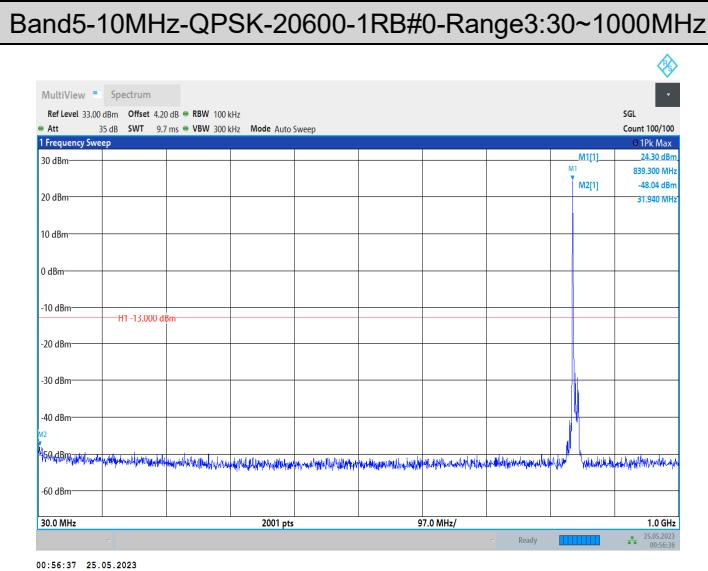
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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 50 of 62

## Field Strength of Spurious Radiation

Test Band = LTE Band 5\_ TM1\_ Ant13

Test Channel = Low Channel\_10MHz

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	45.44	-48.38	25.58	-72.63	-13.00	59.63	259	15	Horizontal
2	2473.77	43.61	-46.96	27.85	-70.77	-13.00	57.77	174	98	Horizontal
3	3298.36	42.83	-46.11	29.48	-69.06	-13.00	56.06	186	319	Horizontal
4	4122.95	41.97	-45.34	30.80	-67.83	-13.00	54.83	234	3	Horizontal
5	4947.54	41.80	-45.08	32.47	-66.07	-13.00	53.07	177	114	Horizontal
6	5772.13	41.76	-43.52	33.47	-63.55	-13.00	50.55	189	346	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	44.68	-48.38	25.58	-73.39	-13.00	60.39	124	248	Vertical
2	2473.77	43.56	-46.96	27.85	-70.82	-13.00	57.82	196	39	Vertical
3	3298.36	42.88	-46.11	29.48	-69.01	-13.00	56.01	202	1	Vertical
4	4122.95	42.15	-45.34	30.80	-67.65	-13.00	54.65	163	56	Vertical
5	4947.54	42.05	-45.08	32.47	-65.82	-13.00	52.82	178	0	Vertical
6	5772.13	42.18	-43.52	33.47	-63.13	-13.00	50.13	298	89	Vertical

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Rev.: 01  
Page: 51 of 62

**Test Band = LTE Band 5\_ TM1\_ Ant13**

**Test Channel = Mid Channel\_10MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	51.16	-48.34	25.57	-66.87	-13.00	53.87	274	344	Horizontal
2	2496.27	43.76	-46.77	27.89	-70.38	-13.00	57.38	231	267	Horizontal
3	3328.36	43.19	-46.16	29.47	-68.76	-13.00	55.76	109	50	Horizontal
4	4160.45	42.48	-45.23	30.86	-67.15	-13.00	54.15	264	360	Horizontal
5	4992.54	42.95	-45.02	32.58	-64.75	-13.00	51.75	182	206	Horizontal
6	5824.63	41.65	-43.43	33.64	-63.40	-13.00	50.40	133	160	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	45.58	-48.34	25.57	-72.45	-13.00	59.45	284	0	Vertical
2	2496.27	43.21	-46.77	27.89	-70.93	-13.00	57.93	199	187	Vertical
3	3328.36	43.25	-46.16	29.47	-68.70	-13.00	55.70	204	0	Vertical
4	4160.45	41.37	-45.23	30.86	-68.26	-13.00	55.26	186	16	Vertical
5	4992.54	41.79	-45.02	32.58	-65.91	-13.00	52.91	239	218	Vertical
6	5824.63	42.31	-43.43	33.64	-62.74	-13.00	49.74	162	0	Vertical



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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 52 of 62

**Test Band = LTE Band 5\_ TM1\_ Ant13**

**Test Channel = High Channel\_10MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1111	65.22	-48.30	25.56	-52.78	-13.00	39.78	298	3	Horizontal
2	2518.77	43.40	-46.84	27.96	-70.73	-13.00	57.73	176	230	Horizontal
3	3358.36	42.94	-46.21	29.46	-69.07	-13.00	56.07	207	360	Horizontal
4	4197.95	41.89	-45.12	30.92	-67.57	-13.00	54.57	149	77	Horizontal
5	5037.54	42.48	-44.85	32.60	-65.03	-13.00	52.03	266	61	Horizontal
6	5887.13	41.96	-43.24	33.84	-62.70	-13.00	49.70	142	153	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.1111	52.05	-48.30	25.56	-65.95	-13.00	52.95	213	253	Vertical
2	2518.77	43.31	-46.84	27.96	-70.82	-13.00	57.82	134	1	Vertical
3	3358.36	43.70	-46.21	29.46	-68.31	-13.00	55.31	278	15	Vertical
4	4197.95	41.34	-45.12	30.92	-68.12	-13.00	55.12	296	123	Vertical
5	5037.54	42.36	-44.85	32.60	-65.15	-13.00	52.15	183	331	Vertical
6	5887.13	42.32	-43.24	33.84	-62.34	-13.00	49.34	200	1	Vertical



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Rev.: 01  
Page: 53 of 62

**Test Band = LTE Band 5\_TM1\_Ant31**

**Test Channel = Low Channel\_10MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	44.41	-48.38	25.58	-73.66	-13.00	60.66	192	353	Horizontal
2	2473.77	44.21	-46.96	27.85	-70.17	-13.00	57.17	176	14	Horizontal
3	3298.36	43.79	-46.11	29.48	-68.10	-13.00	55.10	233	31	Horizontal
4	4122.95	42.33	-45.34	30.80	-67.47	-13.00	54.47	185	253	Horizontal
5	4947.54	41.83	-45.08	32.47	-66.04	-13.00	53.04	172	343	Horizontal
6	5772.13	42.50	-43.52	33.47	-62.81	-13.00	49.81	134	331	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	44.38	-48.38	25.58	-73.69	-13.00	60.69	219	108	Vertical
2	2473.77	43.72	-46.96	27.85	-70.66	-13.00	57.66	288	1	Vertical
3	3298.36	43.50	-46.11	29.48	-68.39	-13.00	55.39	176	186	Vertical
4	4122.95	42.65	-45.34	30.80	-67.15	-13.00	54.15	231	313	Vertical
5	4947.54	42.42	-45.08	32.47	-65.45	-13.00	52.45	120	108	Vertical
6	5772.13	41.96	-43.52	33.47	-63.35	-13.00	50.35	164	46	Vertical



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## Test Band = LTE Band 5\_ TM1\_ Ant31

## Test Channel = Mid Channel\_10MHz

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	44.48	-48.34	25.57	-73.55	-13.00	60.55	210	29	Horizontal
2	2496.27	44.32	-46.77	27.89	-69.82	-13.00	56.82	236	360	Horizontal
3	3328.36	44.04	-46.16	29.47	-67.91	-13.00	54.91	287	29	Horizontal
4	4160.45	42.94	-45.23	30.86	-66.69	-13.00	53.69	149	352	Horizontal
5	4992.54	42.15	-45.02	32.58	-65.55	-13.00	52.55	245	3	Horizontal
6	5824.63	42.21	-43.43	33.64	-62.84	-13.00	49.84	162	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	45.00	-48.34	25.57	-73.03	-13.00	60.03	142	65	Vertical
2	2496.27	44.11	-46.77	27.89	-70.03	-13.00	57.03	292	10	Vertical
3	3328.36	43.56	-46.16	29.47	-68.39	-13.00	55.39	234	301	Vertical
4	4160.45	42.14	-45.23	30.86	-67.49	-13.00	54.49	172	346	Vertical
5	4992.54	41.89	-45.02	32.58	-65.81	-13.00	52.81	185	10	Vertical
6	5824.63	41.97	-43.43	33.64	-63.08	-13.00	50.08	164	50	Vertical

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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 55 of 62

**Test Band = LTE Band 5\_TM1\_Ant31**

**Test Channel = High Channel\_10MHz**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	43.91	-48.30	25.56	-74.09	-13.00	61.09	201	353	Horizontal
2	2518.77	43.43	-46.84	27.96	-70.70	-13.00	57.70	156	358	Horizontal
3	3358.36	43.20	-46.21	29.46	-68.81	-13.00	55.81	294	156	Horizontal
4	4197.95	42.16	-45.12	30.92	-67.30	-13.00	54.30	178	360	Horizontal
5	5037.54	42.59	-44.85	32.60	-64.92	-13.00	51.92	263	204	Horizontal
6	5887.13	42.56	-43.24	33.84	-62.10	-13.00	49.10	213	125	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	44.45	-48.30	25.56	-73.55	-13.00	60.55	143	184	Vertical
2	2518.77	43.81	-46.84	27.96	-70.32	-13.00	57.32	258	136	Vertical
3	3358.36	44.22	-46.21	29.46	-67.79	-13.00	54.79	167	0	Vertical
4	4197.95	42.05	-45.12	30.92	-67.41	-13.00	54.41	128	89	Vertical
5	5037.54	42.08	-44.85	32.60	-65.43	-13.00	52.43	167	105	Vertical
6	5887.13	42.39	-43.24	33.84	-62.27	-13.00	49.27	203	312	Vertical



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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 56 of 62

**Test Band = UL CA\_5A\_7A\_ TM1 Ant11+Ant13**

**Test Channel = Low Channel**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.74	-25.29	25.58	-59.23	-25.00	34.23	148	360	Horizontal
2	2473.77	37.01	-24.01	27.85	-54.41	-25.00	29.41	259	171	Horizontal
3	3298.36	42.44	-45.88	29.48	-69.21	-25.00	44.21	166	357	Horizontal
4	5002.18	40.37	-44.92	32.60	-67.21	-25.00	42.21	274	172	Horizontal
5	7503.27	38.86	-41.59	36.51	-61.48	-25.00	36.48	144	298	Horizontal
6	10004.36	33.89	-37.13	38.50	-60.00	-25.00	35.00	285	193	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.60	-25.29	25.58	-59.37	-25.00	34.37	135	267	Vertical
2	2473.77	36.60	-24.01	27.85	-54.82	-25.00	29.82	284	303	Vertical
3	3298.36	42.20	-45.88	29.48	-69.45	-25.00	44.45	177	27	Vertical
4	5002.18	41.26	-44.92	32.60	-66.32	-25.00	41.32	149	133	Vertical
5	7503.27	39.05	-41.59	36.51	-61.29	-25.00	36.29	203	339	Vertical
6	10004.36	34.82	-37.13	38.50	-59.07	-25.00	34.07	168	357	Vertical



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**Test Band = UL CA\_5A\_7A\_ TM1 Ant11+Ant13**

## Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	36.60	-25.24	25.57	-58.33	-25.00	33.33	127	31	Horizontal
2	2496.27	37.19	-23.89	27.89	-54.07	-25.00	29.07	234	83	Horizontal
3	3328.36	43.29	-45.89	29.47	-68.40	-25.00	43.40	198	89	Horizontal
4	5052.18	41.79	-44.60	32.60	-65.47	-25.00	40.47	263	176	Horizontal
5	7578.27	38.13	-41.33	36.66	-61.81	-25.00	36.81	240	25	Horizontal
6	10104.36	34.59	-36.80	38.61	-58.85	-25.00	33.85	159	319	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	35.79	-25.24	25.57	-59.14	-25.00	34.14	118	83	Vertical
2	2496.27	37.07	-23.89	27.89	-54.19	-25.00	29.19	279	360	Vertical
3	3328.36	42.90	-45.89	29.47	-68.79	-25.00	43.79	186	0	Vertical
4	5052.18	41.51	-44.60	32.60	-65.75	-25.00	40.75	239	0	Vertical
5	7578.27	38.41	-41.33	36.66	-61.53	-25.00	36.53	156	340	Vertical
6	10104.36	33.81	-36.80	38.61	-59.63	-25.00	34.63	217	276	Vertical

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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 58 of 62

**Test Band = UL CA\_5A\_7A\_ TM1 Ant11+Ant13**

**Test Channel = High Channel**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	38.46	-25.19	25.56	-56.43	-25.00	31.43	175	32	Horizontal
2	2518.77	37.00	-23.91	27.96	-54.20	-25.00	29.20	297	360	Horizontal
3	3358.36	42.55	-45.91	29.46	-69.16	-25.00	44.16	186	1	Horizontal
4	5102.18	41.15	-44.29	32.60	-65.80	-25.00	40.80	234	114	Horizontal
5	7653.27	37.83	-41.30	36.81	-61.92	-25.00	36.92	172	71	Horizontal
6	10204.36	35.64	-36.56	38.72	-57.46	-25.00	32.46	144	300	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	36.26	-25.19	25.56	-58.63	-25.00	33.63	185	33	Vertical
2	2518.77	37.11	-23.91	27.96	-54.09	-25.00	29.09	179	285	Vertical
3	3358.36	42.18	-45.91	29.46	-69.53	-25.00	44.53	244	257	Vertical
4	5102.18	41.28	-44.29	32.60	-65.67	-25.00	40.67	165	278	Vertical
5	7653.27	37.58	-41.30	36.81	-62.17	-25.00	37.17	235	235	Vertical
6	10204.36	35.79	-36.56	38.72	-57.31	-25.00	32.31	174	130	Vertical

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Report No.: SEWM2305000177RG01  
 Rev.: 01  
 Page: 59 of 62

**Test Band = UL CA\_5A\_7A\_ TM1\_Ant11+Ant31**

**Test Channel = Low Channel**

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.64	-25.29	25.58	-59.33	-25.00	34.33	217	229	Horizontal
2	2473.77	36.96	-24.01	27.85	-54.46	-25.00	29.46	129	64	Horizontal
3	3298.36	42.63	-45.88	29.48	-69.02	-25.00	44.02	213	0	Horizontal
4	5002.18	40.34	-44.92	32.60	-67.24	-25.00	42.24	268	193	Horizontal
5	7503.27	38.65	-41.59	36.51	-61.69	-25.00	36.69	179	273	Horizontal
6	10004.36	33.75	-37.13	38.50	-60.14	-25.00	35.14	246	0	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.18	35.78	-25.29	25.58	-59.19	-25.00	34.19	154	222	Vertical
2	2473.77	36.88	-24.01	27.85	-54.54	-25.00	29.54	173	82	Vertical
3	3298.36	42.25	-45.88	29.48	-69.40	-25.00	44.40	206	258	Vertical
4	5002.18	40.46	-44.92	32.60	-67.12	-25.00	42.12	198	130	Vertical
5	7503.27	38.84	-41.59	36.51	-61.50	-25.00	36.50	273	1	Vertical
6	10004.36	33.72	-37.13	38.50	-60.17	-25.00	35.17	244	151	Vertical



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**Test Band = UL CA\_5A\_7A\_ TM1\_Ant11+Ant31**

## Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	35.60	-25.24	25.57	-59.33	-25.00	34.33	119	21	Horizontal
2	2496.27	37.13	-23.89	27.89	-54.13	-25.00	29.13	278	200	Horizontal
3	3328.36	43.32	-45.89	29.47	-68.37	-25.00	43.37	146	14	Horizontal
4	5052.18	40.80	-44.60	32.60	-66.46	-25.00	41.46	237	319	Horizontal
5	7578.27	37.81	-41.33	36.66	-62.13	-25.00	37.13	241	174	Horizontal
6	10104.36	34.58	-36.80	38.61	-58.86	-25.00	33.86	161	93	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1664.18	35.56	-25.24	25.57	-59.37	-25.00	34.37	203	358	Vertical
2	2496.27	37.02	-23.89	27.89	-54.24	-25.00	29.24	174	203	Vertical
3	3328.36	42.78	-45.89	29.47	-68.91	-25.00	43.91	289	357	Vertical
4	5052.18	40.61	-44.60	32.60	-66.65	-25.00	41.65	163	176	Vertical
5	7578.27	37.98	-41.33	36.66	-61.96	-25.00	36.96	254	0	Vertical
6	10104.36	34.43	-36.80	38.61	-59.01	-25.00	34.01	178	28	Vertical

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**Test Band = UL CA\_5A\_7A\_ TM1\_Ant11+Ant31**

## Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	35.54	-25.19	25.56	-59.35	-25.00	34.35	203	160	Horizontal
2	2518.77	37.58	-23.91	27.96	-53.62	-25.00	28.62	249	21	Horizontal
3	3358.36	42.09	-45.91	29.46	-69.62	-25.00	44.62	156	155	Horizontal
4	5102.18	40.60	-44.29	32.60	-66.35	-25.00	41.35	283	0	Horizontal
5	7653.27	36.96	-41.30	36.81	-62.79	-25.00	37.79	204	176	Horizontal
6	10204.36	35.39	-36.56	38.72	-57.71	-25.00	32.71	153	53	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1679.18	35.28	-25.19	25.56	-59.61	-25.00	34.61	255	153	Vertical
2	2518.77	37.19	-23.91	27.96	-54.01	-25.00	29.01	148	355	Vertical
3	3358.36	43.29	-45.91	29.46	-68.42	-25.00	43.42	263	174	Vertical
4	5102.18	40.70	-44.29	32.60	-66.25	-25.00	41.25	184	14	Vertical
5	7653.27	37.05	-41.30	36.81	-62.70	-25.00	37.70	251	0	Vertical
6	10204.36	35.20	-36.56	38.72	-57.90	-25.00	32.90	197	258	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Report No.: SEWM2305000177RG01  
Rev.: 01  
Page: 62 of 62

## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
					Voltage [Vdc]	Temperature (°C)				
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	1.20	0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-5.00	-0.005977	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-0.30	-0.000359	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-1.20	-0.001435	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	1.50	0.001793	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-10	-2.80	-0.003347	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-0.80	-0.000956	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-1.30	-0.001554	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	2.30	0.002750	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	-1.60	-0.001913	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-2.60	-0.003108	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-2.00	-0.002391	±2.5	PASS

---End of Attachment---

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