

Report No.: SEWM2212000326RG01

Rev.: 01 Page: 1 of 44

# Appendix B.4

LTE Band 7



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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 2 of 44

#### **Effective (Isotropic) Radiated Power Output Data**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	22.99	26.99	33	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.07	27.07	33	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.61	26.61	33	PASS
Band7	5MHz	QPSK	20775	25RB#0	21.89	25.89	33	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.89	26.89	33	PASS
Band7	5MHz	QPSK	21100	1RB#12	23.15	27.15	33	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.92	26.92	33	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.18	26.18	33	PASS
Band7	5MHz	QPSK	21425	1RB#0	23.03	27.03	33	PASS
Band7	5MHz	QPSK	21425	1RB#12	23.25	27.25	33	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.72	26.72	33	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.12	26.12	33	PASS
Band7	5MHz	16QAM	20775	1RB#0	21.97	25.97	33	PASS
Band7	5MHz	16QAM	20775	1RB#12	21.88	25.88	33	PASS
Band7	5MHz	16QAM	20775	1RB#24	21.67	25.67	33	PASS
Band7	5MHz	16QAM	20775	25RB#0	20.73	24.73	33	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.93	25.93	33	PASS
Band7	5MHz	16QAM	21100	1RB#12	22.01	26.01	33	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.32	26.32	33	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.42	25.42	33	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.09	26.09	33	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.58	26.58	33	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.97	25.97	33	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.19	25.19	33	PASS
Band7	10MHz	QPSK	20800	1RB#0	23.09	27.09	33	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.12	27.12	33	PASS
Band7	10MHz	QPSK	20800	1RB#49	22.87	26.87	33	PASS



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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 3 of 44

					Page:	3 01 4	+4	
Band7	10MHz	QPSK	20800	50RB#0	21.96	25.96	33	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.18	27.18	33	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.33	27.33	33	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.15	27.15	33	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.13	26.13	33	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.28	27.28	33	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.34	27.34	33	PASS
Band7	10MHz	QPSK	21400	1RB#49	23.04	27.04	33	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.25	26.25	33	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.77	25.77	33	PASS
Band7	10MHz	16QAM	20800	1RB#24	22.51	26.51	33	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.76	25.76	33	PASS
Band7	10MHz	16QAM	20800	50RB#0	21.09	25.09	33	PASS
Band7	10MHz	16QAM	21100	1RB#0	22.28	26.28	33	PASS
Band7	10MHz	16QAM	21100	1RB#24	21.98	25.98	33	PASS
Band7	10MHz	16QAM	21100	1RB#49	22.33	26.33	33	PASS
Band7	10MHz	16QAM	21100	50RB#0	21.25	25.25	33	PASS
Band7	10MHz	16QAM	21400	1RB#0	22.15	26.15	33	PASS
Band7	10MHz	16QAM	21400	1RB#24	22.71	26.71	33	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.93	25.93	33	PASS
Band7	10MHz	16QAM	21400	50RB#0	21.18	25.18	33	PASS
Band7	15MHz	QPSK	20825	1RB#0	22.93	26.93	33	PASS
Band7	15MHz	QPSK	20825	1RB#38	23.03	27.03	33	PASS
Band7	15MHz	QPSK	20825	1RB#74	22.68	26.68	33	PASS
Band7	15MHz	QPSK	20825	75RB#0	22	26	33	PASS
Band7	15MHz	QPSK	21100	1RB#0	23.05	27.05	33	PASS
Band7	15MHz	QPSK	21100	1RB#38	23	27	33	PASS
Band7	15MHz	QPSK	21100	1RB#74	22.88	26.88	33	PASS
Band7	15MHz	QPSK	21100	75RB#0	22.11	26.11	33	PASS
Band7	15MHz	QPSK	21375	1RB#0	23.44	27.44	33	PASS
Band7	15MHz	QPSK	21375	1RB#38	23.25	27.25	33	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.82	26.82	33	PASS



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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 4 of 44

1 1				Page: 4 of		44	
15MHz	QPSK	21375	75RB#0	22.27	26.27	33	PASS
15MHz	16QAM	20825	1RB#0	21.81	25.81	33	PASS
15MHz	16QAM	20825	1RB#38	21.68	25.68	33	PASS
15MHz	16QAM	20825	1RB#74	21.71	25.71	33	PASS
15MHz	16QAM	20825	75RB#0	21.02	25.02	33	PASS
15MHz	16QAM	21100	1RB#0	22.29	26.29	33	PASS
15MHz	16QAM	21100	1RB#38	22.3	26.3	33	PASS
15MHz	16QAM	21100	1RB#74	21.91	25.91	33	PASS
15MHz	16QAM	21100	75RB#0	21.22	25.22	33	PASS
15MHz	16QAM	21375	1RB#0	22.82	26.82	33	PASS
15MHz	16QAM	21375	1RB#38	22.66	26.66	33	PASS
15MHz	16QAM	21375	1RB#74	21.83	25.83	33	PASS
15MHz	16QAM	21375	75RB#0	21.11	25.11	33	PASS
20MHz	QPSK	20850	1RB#0	23.29	27.29	33	PASS
20MHz	QPSK	20850	1RB#49	23.2	27.2	33	PASS
20MHz	QPSK	20850	1RB#99	22.64	26.64	33	PASS
20MHz	QPSK	20850	100RB#0	21.87	25.87	33	PASS
20MHz	QPSK	21100	1RB#0	22.8	26.8	33	PASS
20MHz	QPSK	21100	1RB#49	23.01	27.01	33	PASS
20MHz	QPSK	21100	1RB#99	23.16	27.16	33	PASS
20MHz	QPSK	21100	100RB#0	22.01	26.01	33	PASS
20MHz	QPSK	21350	1RB#0	23.14	27.14	33	PASS
20MHz	QPSK	21350	1RB#49	23.39	27.39	33	PASS
20MHz	QPSK	21350	1RB#99	23.07	27.07	33	PASS
20MHz	QPSK	21350	100RB#0	22.24	26.24	33	PASS
20MHz	16QAM	20850	1RB#0	21.76	25.76	33	PASS
20MHz	16QAM	20850	1RB#49	22.56	26.56	33	PASS
20MHz	16QAM	20850	1RB#99	21.55	25.55	33	PASS
20MHz	16QAM	20850	100RB#0	20.89	24.89	33	PASS
20MHz	16QAM	21100	1RB#0	21.78	25.78	33	PASS
20MHz	16QAM	21100	1RB#49	22.25	26.25	33	PASS
20MHz	16QAM	21100	1RB#99	22.06	26.06	33	PASS
	5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz 5MHz	5MHz         16QAM           5MHz         QPSK           0MHz         16QAM           0MHz         16QAM <td>5MHz         16QAM         20825           5MHz         16QAM         20825           5MHz         16QAM         20825           5MHz         16QAM         20825           5MHz         16QAM         21100           5MHz         16QAM         21100           5MHz         16QAM         21100           5MHz         16QAM         21375           5MHz         16QAM         20850           0MHz         QPSK         20850           0MHz         QPSK         21100           0MHz         QPSK         21350           0MHz         QPSK         21350           0MHz         16QAM         20850           0MHz         16QAM         20850           0MHz         16QA</td> <td>5MHz         16QAM         20825         1RB#0           5MHz         16QAM         20825         1RB#38           5MHz         16QAM         20825         1RB#74           5MHz         16QAM         20825         75RB#0           5MHz         16QAM         21100         1RB#0           5MHz         16QAM         21100         1RB#38           5MHz         16QAM         21100         75RB#0           5MHz         16QAM         21100         75RB#0           5MHz         16QAM         21375         1RB#38           5MHz         16QAM         21375         1RB#0           0MHz         QPSK         20850         1RB#0           0MHz         QPSK         20850         1RB#49           0MHz         QPSK         20850         1RB#49           0MHz         QPSK         21100         1RB#49           0MHz         QPSK</td> <td>5MHz         16QAM         20825         1RB#0         21.81           5MHz         16QAM         20825         1RB#38         21.68           5MHz         16QAM         20825         1RB#74         21.71           5MHz         16QAM         20825         75RB#0         21.02           5MHz         16QAM         21100         1RB#0         22.29           5MHz         16QAM         21100         1RB#38         22.3           5MHz         16QAM         21100         1RB#74         21.91           5MHz         16QAM         21100         75RB#0         21.22           5MHz         16QAM         21375         1RB#0         22.82           5MHz         16QAM         21375         1RB#38         22.66           5MHz         16QAM         21375         1RB#74         21.83           5MHz         16QAM         21375         1RB#74         21.83           5MHz         16QAM         21375         1RB#0         23.29           0MHz         QPSK         20850         1RB#0         23.29           0MHz         QPSK         20850         1RB#99         22.64           0MHz         <td< td=""><td>5MHz         16QAM         20825         1RB#0         21.81         25.81           5MHz         16QAM         20825         1RB#38         21.68         25.68           5MHz         16QAM         20825         1RB#74         21.71         25.71           5MHz         16QAM         20825         75RB#0         21.02         25.02           5MHz         16QAM         21100         1RB#0         22.29         26.29           5MHz         16QAM         21100         1RB#38         22.3         26.3           5MHz         16QAM         21100         1RB#74         21.91         25.91           5MHz         16QAM         21100         75RB#0         21.22         25.22           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         75RB#0         21.11         25.11           0MHz         QPSK         20850         1RB#0         23.2         27.2</td><td>5MHz         16QAM         20825         1RB#0         21.81         25.81         33           5MHz         16QAM         20825         1RB#38         21.68         25.68         33           5MHz         16QAM         20825         1RB#74         21.71         25.71         33           5MHz         16QAM         20825         75RB#0         21.02         25.02         33           5MHz         16QAM         21100         1RB#0         22.29         26.29         33           5MHz         16QAM         21100         1RB#38         22.3         26.3         33           5MHz         16QAM         21100         1RB#38         22.3         26.3         33           5MHz         16QAM         21100         75RB#0         21.22         25.22         33           5MHz         16QAM         21375         1RB#0         22.82         26.82         33           5MHz         16QAM         21375         1RB#74         21.83         25.83         33           5MHz         16QAM         21375         1RB#74         21.83         25.83         33           5MHz         16QAM         21375         75RB#0</td></td<></td>	5MHz         16QAM         20825           5MHz         16QAM         20825           5MHz         16QAM         20825           5MHz         16QAM         20825           5MHz         16QAM         21100           5MHz         16QAM         21100           5MHz         16QAM         21100           5MHz         16QAM         21375           5MHz         16QAM         20850           0MHz         QPSK         20850           0MHz         QPSK         21100           0MHz         QPSK         21350           0MHz         QPSK         21350           0MHz         16QAM         20850           0MHz         16QAM         20850           0MHz         16QA	5MHz         16QAM         20825         1RB#0           5MHz         16QAM         20825         1RB#38           5MHz         16QAM         20825         1RB#74           5MHz         16QAM         20825         75RB#0           5MHz         16QAM         21100         1RB#0           5MHz         16QAM         21100         1RB#38           5MHz         16QAM         21100         75RB#0           5MHz         16QAM         21100         75RB#0           5MHz         16QAM         21375         1RB#38           5MHz         16QAM         21375         1RB#0           0MHz         QPSK         20850         1RB#0           0MHz         QPSK         20850         1RB#49           0MHz         QPSK         20850         1RB#49           0MHz         QPSK         21100         1RB#49           0MHz         QPSK	5MHz         16QAM         20825         1RB#0         21.81           5MHz         16QAM         20825         1RB#38         21.68           5MHz         16QAM         20825         1RB#74         21.71           5MHz         16QAM         20825         75RB#0         21.02           5MHz         16QAM         21100         1RB#0         22.29           5MHz         16QAM         21100         1RB#38         22.3           5MHz         16QAM         21100         1RB#74         21.91           5MHz         16QAM         21100         75RB#0         21.22           5MHz         16QAM         21375         1RB#0         22.82           5MHz         16QAM         21375         1RB#38         22.66           5MHz         16QAM         21375         1RB#74         21.83           5MHz         16QAM         21375         1RB#74         21.83           5MHz         16QAM         21375         1RB#0         23.29           0MHz         QPSK         20850         1RB#0         23.29           0MHz         QPSK         20850         1RB#99         22.64           0MHz <td< td=""><td>5MHz         16QAM         20825         1RB#0         21.81         25.81           5MHz         16QAM         20825         1RB#38         21.68         25.68           5MHz         16QAM         20825         1RB#74         21.71         25.71           5MHz         16QAM         20825         75RB#0         21.02         25.02           5MHz         16QAM         21100         1RB#0         22.29         26.29           5MHz         16QAM         21100         1RB#38         22.3         26.3           5MHz         16QAM         21100         1RB#74         21.91         25.91           5MHz         16QAM         21100         75RB#0         21.22         25.22           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         75RB#0         21.11         25.11           0MHz         QPSK         20850         1RB#0         23.2         27.2</td><td>5MHz         16QAM         20825         1RB#0         21.81         25.81         33           5MHz         16QAM         20825         1RB#38         21.68         25.68         33           5MHz         16QAM         20825         1RB#74         21.71         25.71         33           5MHz         16QAM         20825         75RB#0         21.02         25.02         33           5MHz         16QAM         21100         1RB#0         22.29         26.29         33           5MHz         16QAM         21100         1RB#38         22.3         26.3         33           5MHz         16QAM         21100         1RB#38         22.3         26.3         33           5MHz         16QAM         21100         75RB#0         21.22         25.22         33           5MHz         16QAM         21375         1RB#0         22.82         26.82         33           5MHz         16QAM         21375         1RB#74         21.83         25.83         33           5MHz         16QAM         21375         1RB#74         21.83         25.83         33           5MHz         16QAM         21375         75RB#0</td></td<>	5MHz         16QAM         20825         1RB#0         21.81         25.81           5MHz         16QAM         20825         1RB#38         21.68         25.68           5MHz         16QAM         20825         1RB#74         21.71         25.71           5MHz         16QAM         20825         75RB#0         21.02         25.02           5MHz         16QAM         21100         1RB#0         22.29         26.29           5MHz         16QAM         21100         1RB#38         22.3         26.3           5MHz         16QAM         21100         1RB#74         21.91         25.91           5MHz         16QAM         21100         75RB#0         21.22         25.22           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         1RB#38         22.66         26.66           5MHz         16QAM         21375         75RB#0         21.11         25.11           0MHz         QPSK         20850         1RB#0         23.2         27.2	5MHz         16QAM         20825         1RB#0         21.81         25.81         33           5MHz         16QAM         20825         1RB#38         21.68         25.68         33           5MHz         16QAM         20825         1RB#74         21.71         25.71         33           5MHz         16QAM         20825         75RB#0         21.02         25.02         33           5MHz         16QAM         21100         1RB#0         22.29         26.29         33           5MHz         16QAM         21100         1RB#38         22.3         26.3         33           5MHz         16QAM         21100         1RB#38         22.3         26.3         33           5MHz         16QAM         21100         75RB#0         21.22         25.22         33           5MHz         16QAM         21375         1RB#0         22.82         26.82         33           5MHz         16QAM         21375         1RB#74         21.83         25.83         33           5MHz         16QAM         21375         1RB#74         21.83         25.83         33           5MHz         16QAM         21375         75RB#0



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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 5 of 44

Band7	20MHz	16QAM	21100	100RB#0	21.2	25.2	33	PASS
Band7	20MHz	16QAM	21350	1RB#0	22.14	26.14	33	PASS
Band7	20MHz	16QAM	21350	1RB#49	22.8	26.8	33	PASS
Band7	20MHz	16QAM	21350	1RB#99	22.34	26.34	33	PASS
Band7	20MHz	16QAM	21350	100RB#0	21.29	25.29	33	PASS



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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 6 of 44

### Peak-to-Average Ratio(CCDF)

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	5.22	13	PASS
Band7	20MHz	QPSK	21100	100RB#0	5.22	13	PASS
Band7	20MHz	QPSK	21350	100RB#0	5.20	13	PASS
Band7	20MHz	16QAM	20850	100RB#0	6.06	13	PASS
Band7	20MHz	16QAM	21100	100RB#0	6.02	13	PASS
Band7	20MHz	16QAM	21350	100RB#0	6.00	13	PASS



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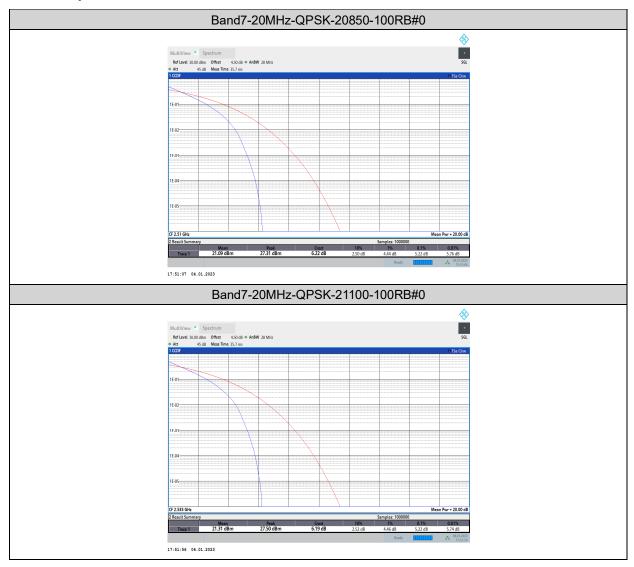
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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 7 of 44

#### **Test Graphs**





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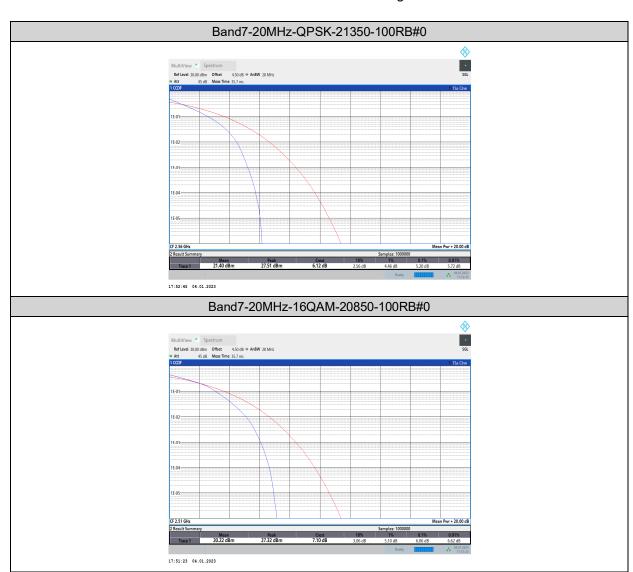
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Report No.: SEWM2212000326RG01

Rev.: 01 Page: 8 of 44





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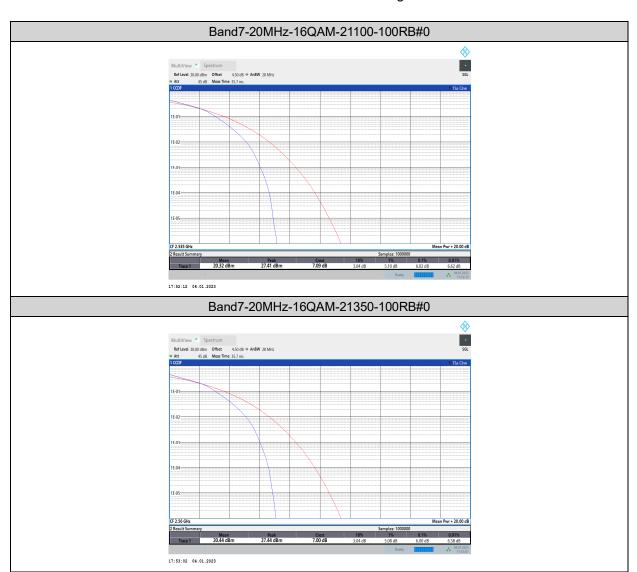
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Rev.: 01 Page: 9 of 44





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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 10 of 44

#### **Modulation Characteristics**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band7	20MHz	QPSK	21100	100RB#0	PASS	PASS
Band7	20MHz	16QAM	21100	100RB#0	PASS	PASS



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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 11 of 44

#### **Test Graphs**





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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 12 of 44

#### 26dB Bandwidth and Occupied Bandwidth

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.461	4.89	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.463	4.87	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.462	4.88	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.462	4.95	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.463	4.93	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.464	4.92	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.918	9.60	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.914	9.74	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.906	9.68	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.901	9.60	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.902	9.64	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.896	9.70	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.43	14.70	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.433	14.73	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.445	14.73	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.404	14.82	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.417	14.82	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.413	14.79	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.849	19.44	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.859	19.48	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.915	19.48	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.845	19.36	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.867	19.32	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.859	19.40	PASS



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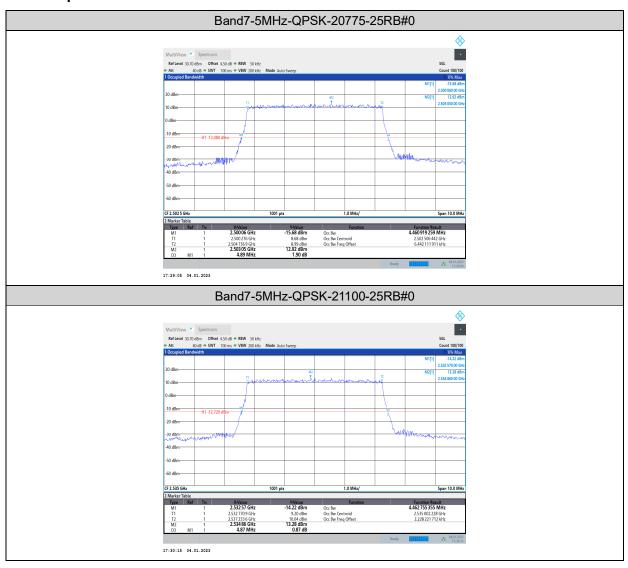


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Rev.: 01

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#### **Test Graphs**





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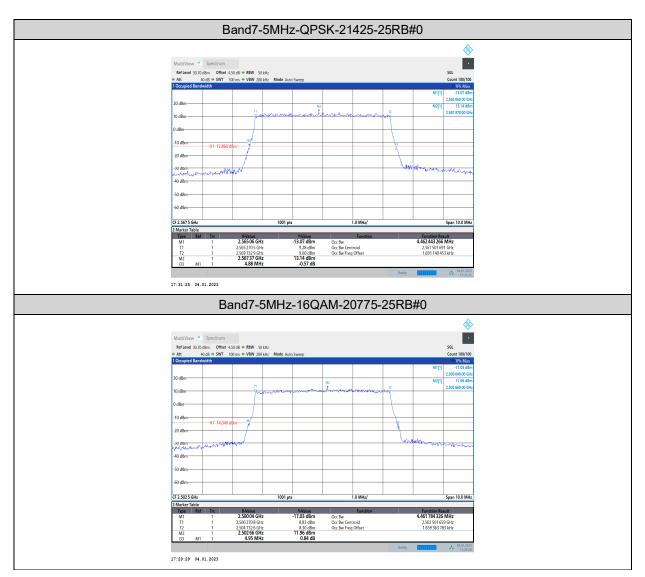
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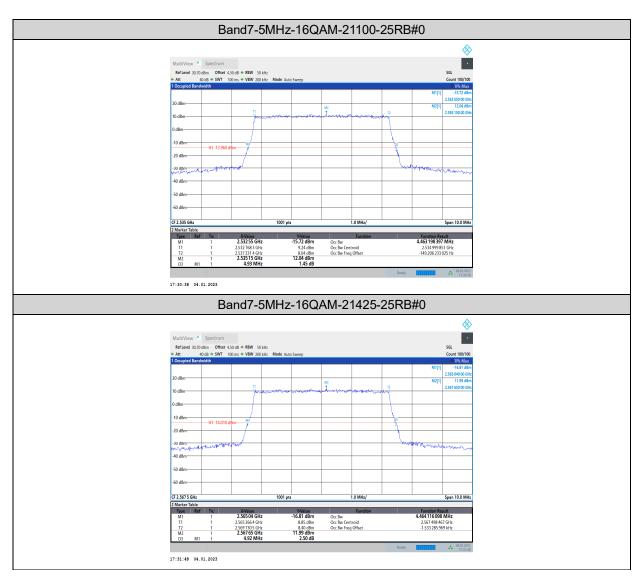
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Rev.: 01

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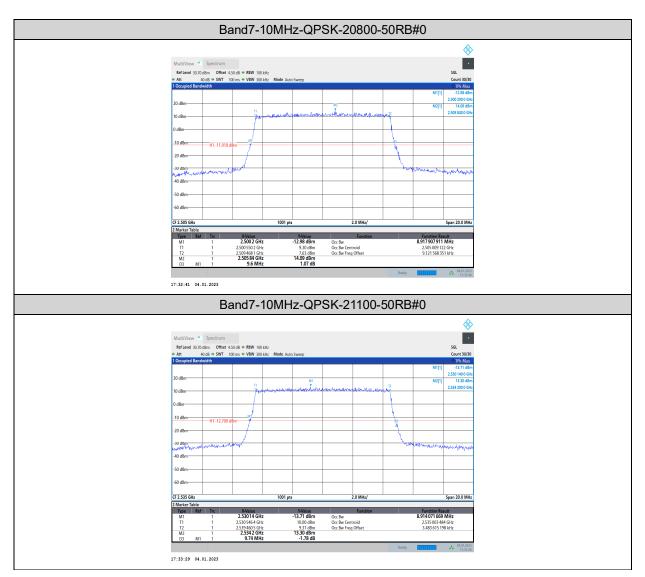
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Rev.: 01

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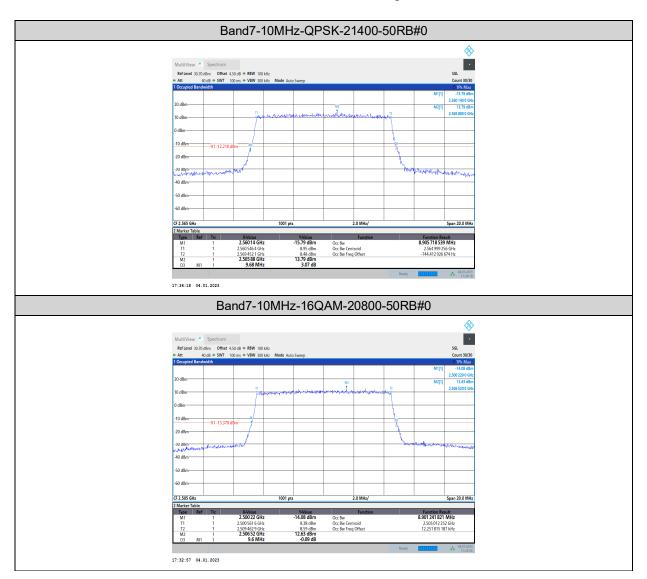
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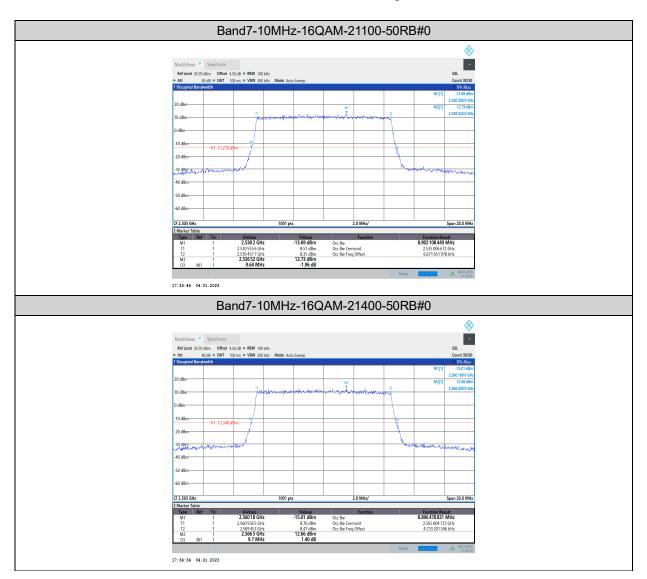
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Rev.: 01

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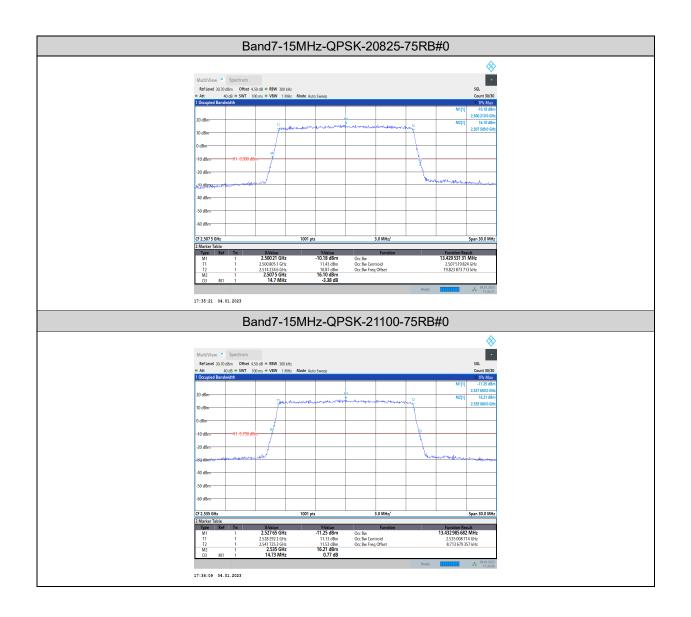
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 19 of 44





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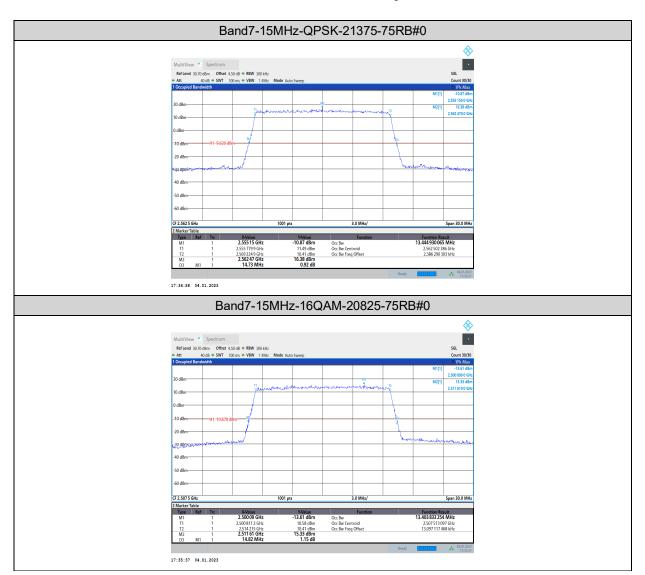
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 20 of 44





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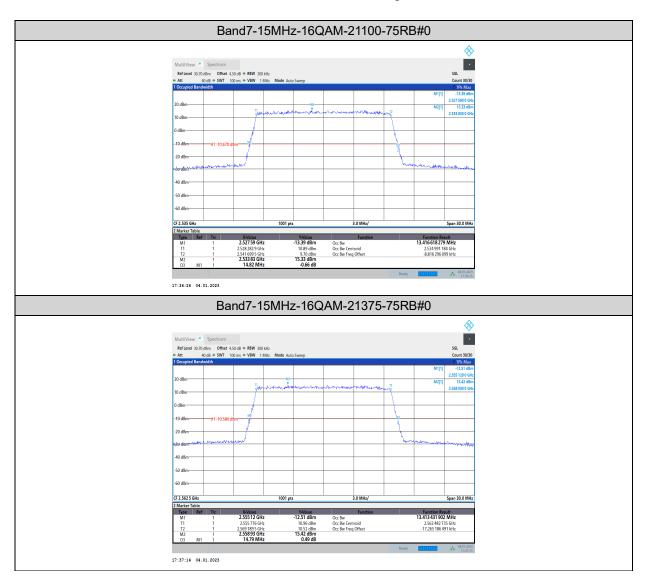
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 21 of 44





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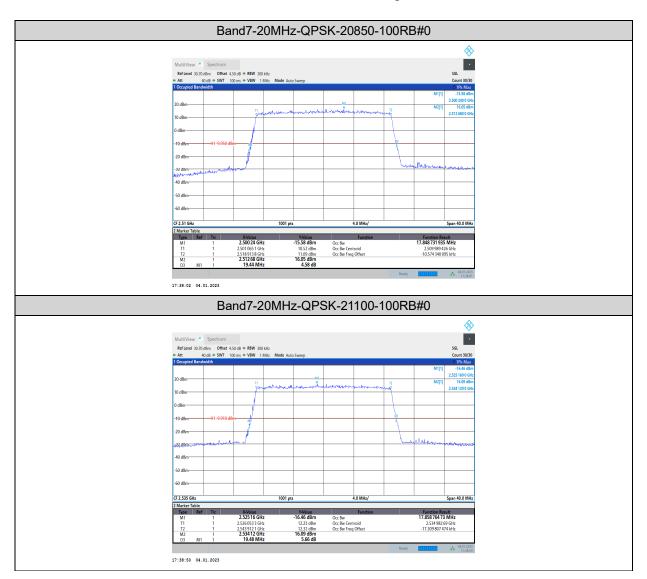
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 22 of 44





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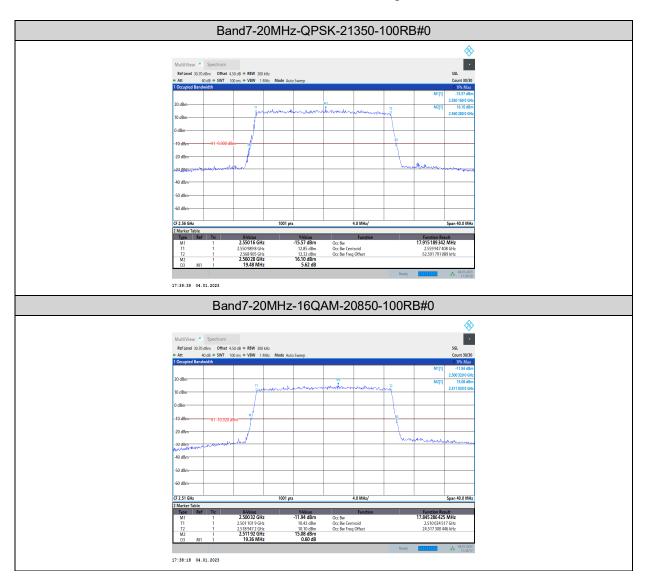
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 23 of 44





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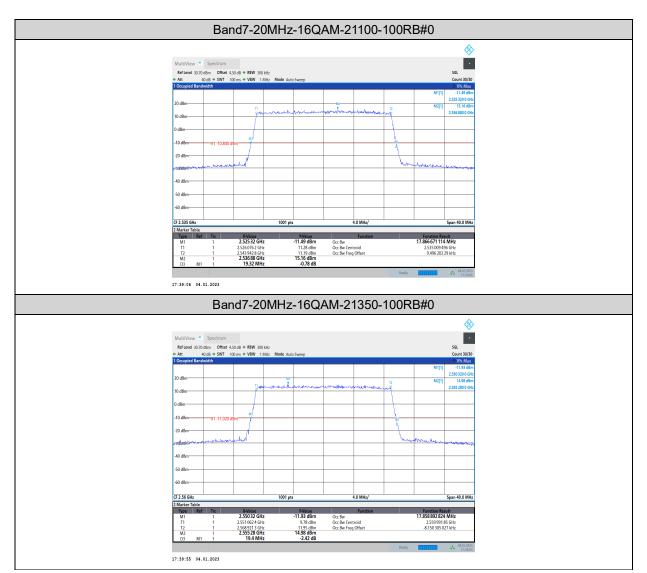
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 24 of 44





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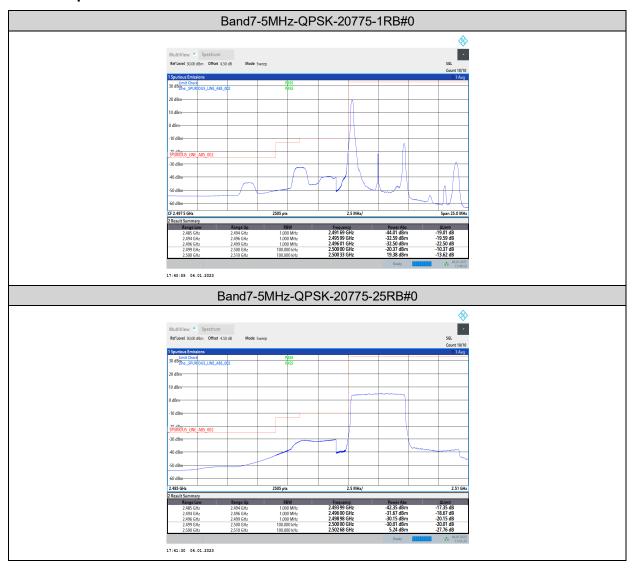
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Rev.: 01

Page: 25 of 44

#### **Band Edge**

#### **Test Graphs**





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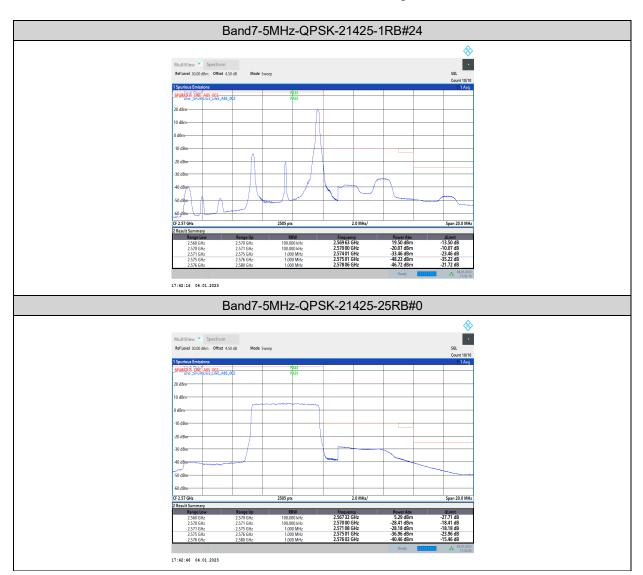
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 26 of 44





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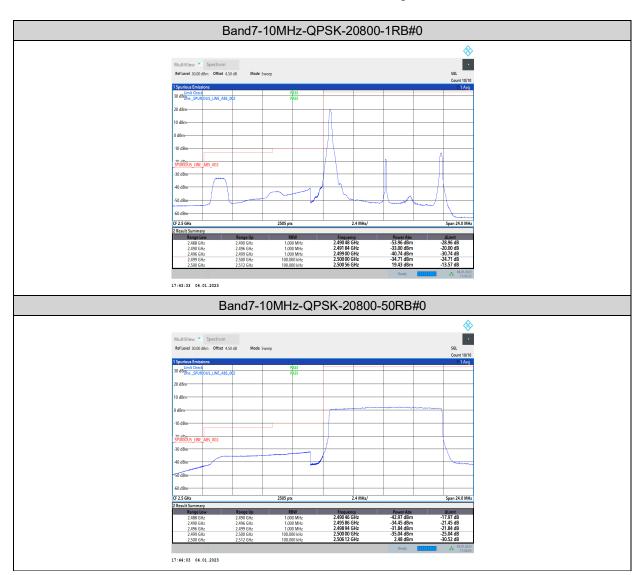
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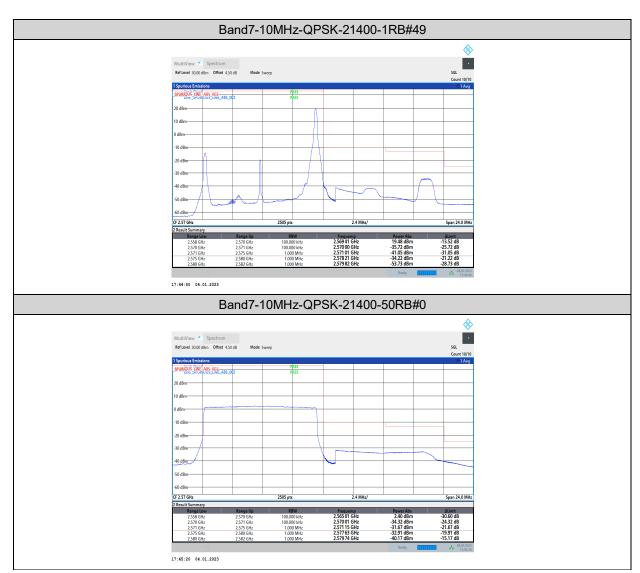
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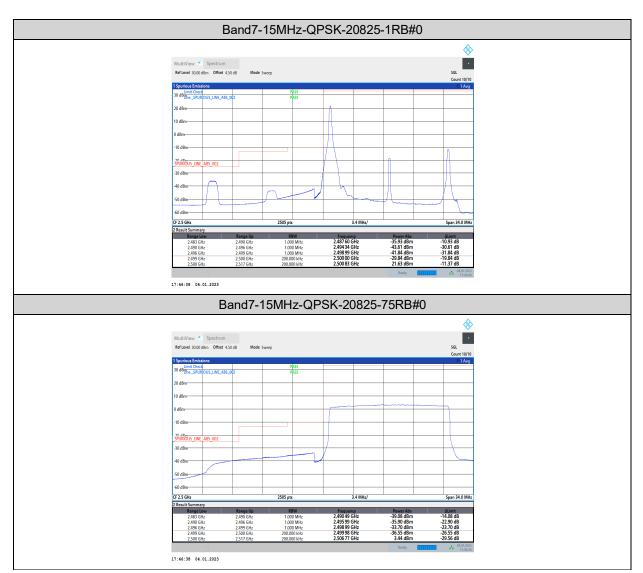
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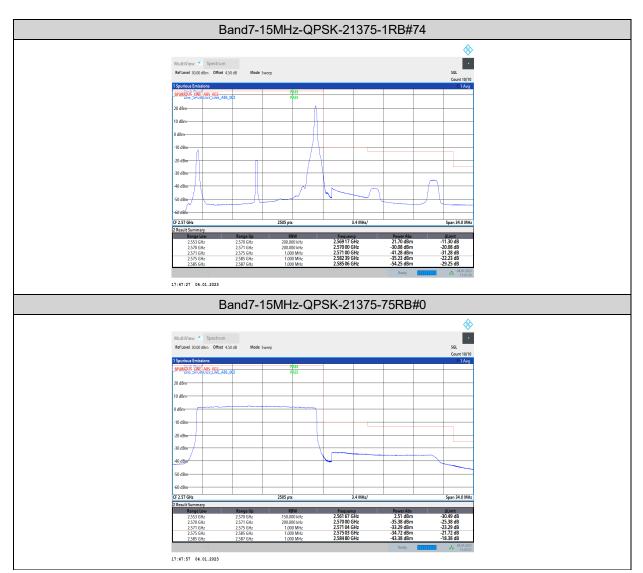
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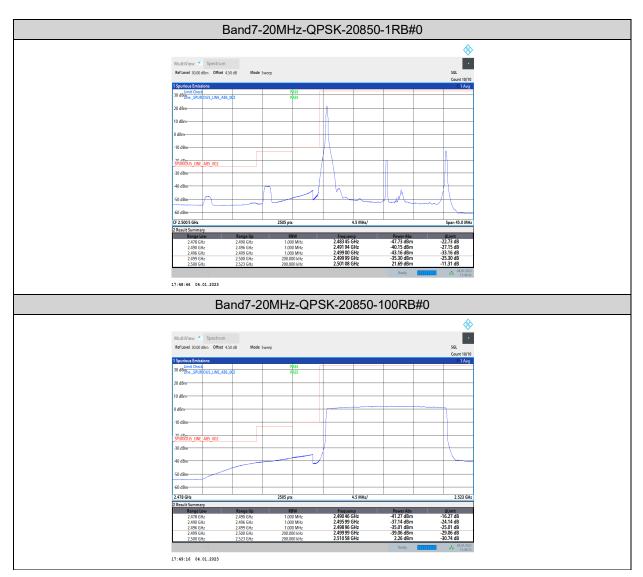
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Rev.: 01

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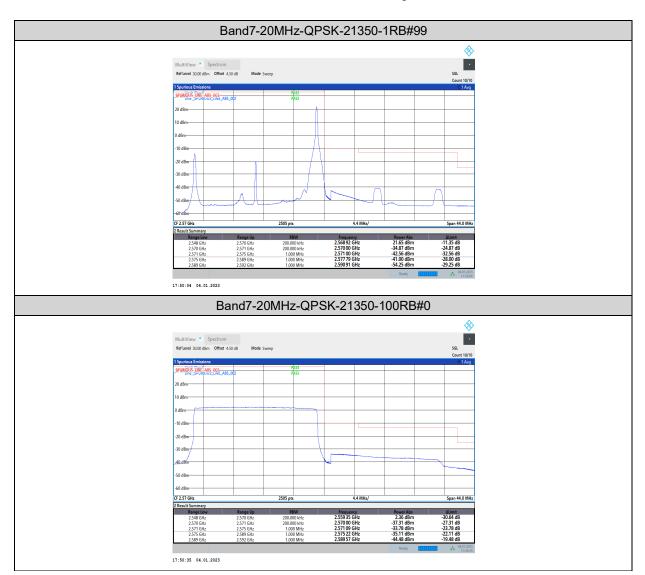
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Rev.: 01

Page: 32 of 44





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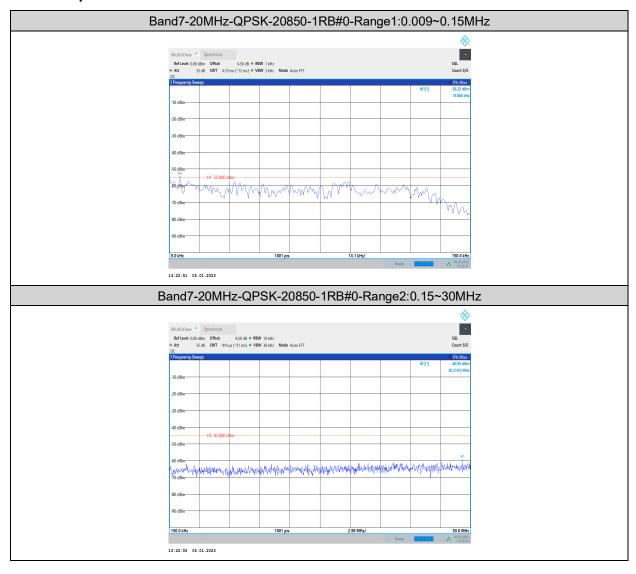
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#### **Conducted Spurious Emission**

#### **Test Graphs**





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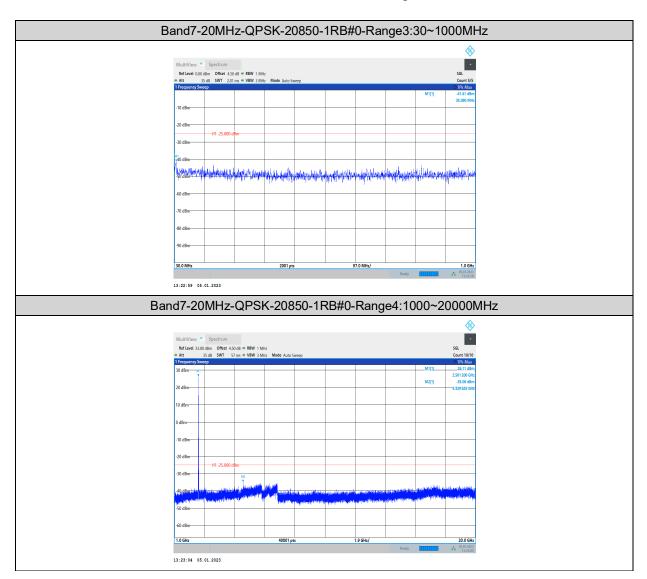
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 34 of 44





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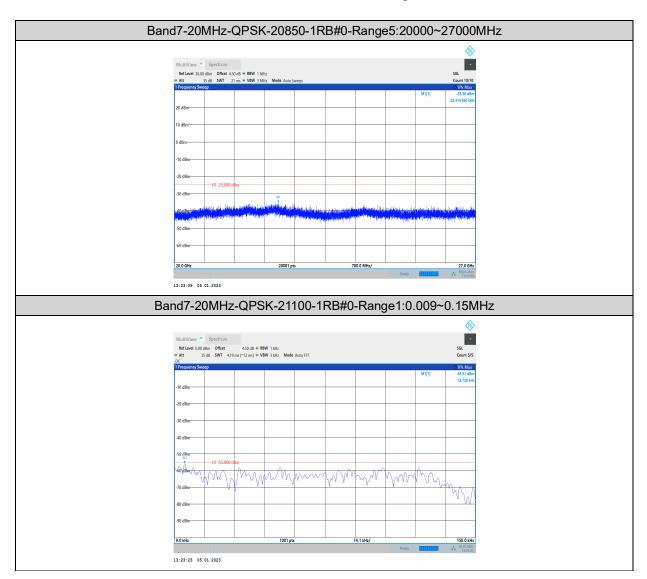
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 35 of 44





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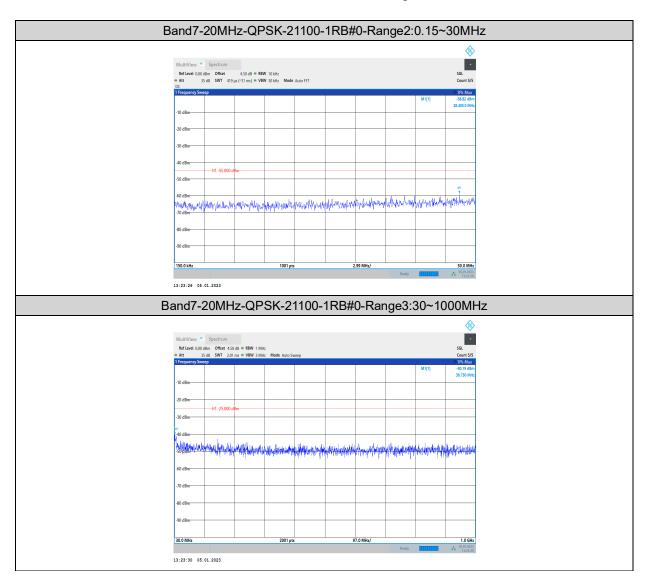
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 36 of 44





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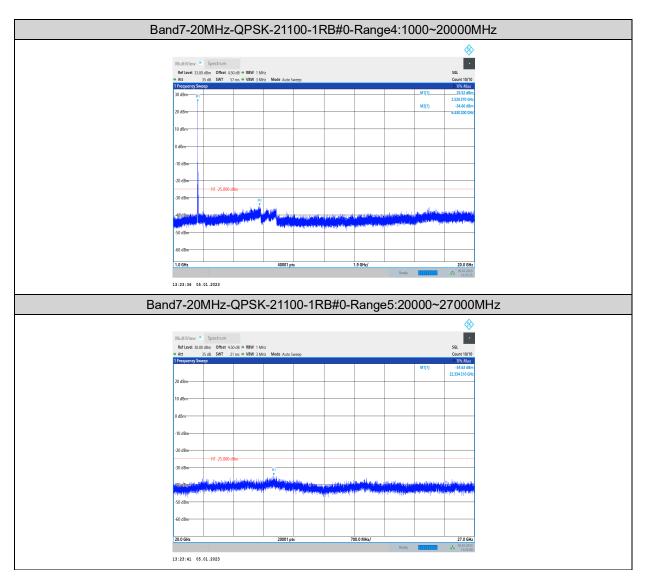
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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 37 of 44





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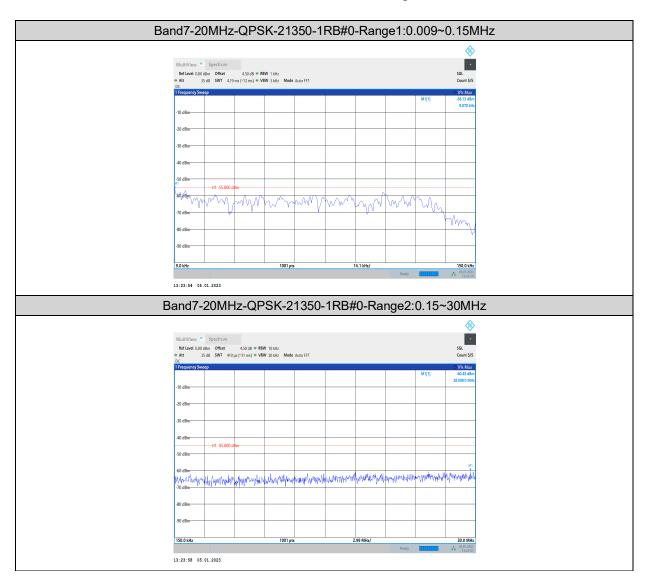
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Rev.: 01

38 of 44 Page:





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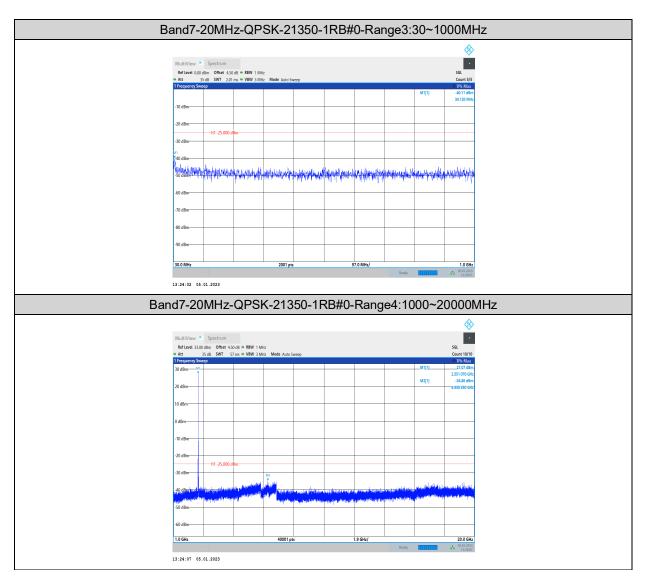
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Rev.: 01

Page: 39 of 44





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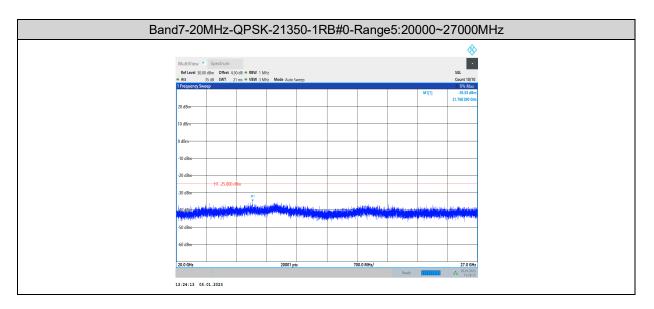
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Rev.: 01

Page: 40 of 44





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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 41 of 44

#### **Field Strength of Spurious Radiation**

Test Band = LTE Band7\_ TM1
Test Channel = Low

Final	Final Data List											
NO	Frequency	Reading	Factor	AF[dB/m]	Level	Limit	Margin	Height	Angle	Delevite		
NO.	[MHz]	[dBµV]	[dB]	Ai [db/iii]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	5002.1800	40.10	-45.63	32.88	-67.91	-25.00	42.91	145	135	Horizontal		
2	7503.2700	39.81	-43.13	36.44	-62.14	-25.00	37.14	256	270	Horizontal		
3	10004.3600	34.96	-39.23	38.50	-61.04	-25.00	36.04	291	90	Horizontal		
4	12505.4500	32.95	-36.99	39.18	-60.12	-25.00	35.12	147	226	Horizontal		
5	15006.5400	31.71	-34.65	39.21	-58.99	-25.00	33.99	185	332	Horizontal		
6	17507.6300	32.52	-34.95	39.22	-58.47	-25.00	33.47	186	357	Horizontal		

Fina	Final Data List											
NO	Frequency	Reading	Factor	V [[4D/***]	Level	Limit	Margin	Height	Angle	Dalawite		
NO.	[MHz] [dB <sub>µ</sub> V] [dB]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity			
1	5002.1800	39.94	-45.63	32.88	-68.07	-25.00	43.07	144	16	Vertical		
2	7503.2700	39.25	-43.13	36.44	-62.70	-25.00	37.70	125	299	Vertical		
3	10004.3600	35.46	-39.23	38.50	-60.54	-25.00	35.54	163	104	Vertical		
4	12505.4500	33.29	-36.99	39.18	-59.78	-25.00	34.78	211	44	Vertical		
5	15006.5400	31.30	-34.65	39.21	-59.40	-25.00	34.40	180	135	Vertical		
6	17507.6300	32.36	-34.95	39.22	-58.63	-25.00	33.63	176	164	Vertical		



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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 42 of 44

#### Test Band = LTE Band7\_ TM1 Test Channel = Mid

Final Data List											
NO	Frequency	Reading	Factor	V [[4D/***]	Level	Limit	Margin	Height	Angle	Dalanik	
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity	
1	5052.1800	40.51	-45.50	32.91	-67.34	-25.00	42.34	247	181	Horizontal	
2	7578.2700	38.91	-42.97	36.40	-62.92	-25.00	37.92	184	0	Horizontal	
3	10104.3600	35.57	-39.14	38.66	-60.17	-25.00	35.17	185	150	Horizontal	
4	12630.4500	33.08	-37.33	39.33	-60.18	-25.00	35.18	180	90	Horizontal	
5	15156.5400	31.94	-34.37	39.01	-58.68	-25.00	33.68	133	195	Horizontal	
6	17682.6300	33.62	-33.89	40.06	-55.47	-25.00	30.47	269	272	Horizontal	

Final Data List											
NO	Frequency	Reading	Factor	ΛΓ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority	
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity	
1	5052.1800	40.44	-45.50	32.91	-67.41	-25.00	42.41	147	226	Vertical	
2	7578.2700	39.18	-42.97	36.40	-62.65	-25.00	37.65	158	181	Vertical	
3	10104.3600	35.41	-39.14	38.66	-60.33	-25.00	35.33	196	166	Vertical	
4	12630.4500	33.27	-37.33	39.33	-59.99	-25.00	34.99	152	150	Vertical	
5	15156.5400	31.14	-34.37	39.01	-59.48	-25.00	34.48	146	197	Vertical	
6	17682.6300	32.95	-33.89	40.06	-56.14	-25.00	31.14	291	2	Vertical	



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Report No.: SEWM2212000326RG01

Rev.: 01

Page: 43 of 44

# Test Band = LTE Band7\_ TM1 Test Channel = High

Final	Final Data List											
NO	Frequency	Reading	Factor	A E [   D / ]	Level	Limit	Margin	Height	Angle	Dalasita		
NO.	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity		
1	5102.1800	40.37	-45.37	32.94	-67.32	-25.00	42.32	147	150	Horizontal		
2	7653.2700	38.94	-43.03	36.49	-62.86	-25.00	37.86	126	7	Horizontal		
3	10204.3600	32.89	-39.48	38.81	-63.04	-25.00	38.04	288	87	Horizontal		
4	12755.4500	30.11	-36.76	39.55	-62.36	-25.00	37.36	145	87	Horizontal		
5	15306.5400	28.26	-34.36	38.82	-62.54	-25.00	37.54	126	87	Horizontal		
6	17857.6300	32.64	-34.56	41.24	-55.94	-25.00	30.94	261	59	Horizontal		

Final Data List										
NO.	Frequency	Reading	Factor	ΛΓ[dD/m]	Level	Limit	Margin	Height	Angle	Dolority
	[MHz]	[dBµV]	[dB]	AF[dB/m]	[dBm]	[dBm]	[dB]	[cm]	[°]	Polarity
1	5102.1800	41.08	-45.37	32.94	-66.61	-25.00	41.61	244	356	Vertical
2	7653.2700	38.55	-43.03	36.49	-63.25	-25.00	38.25	174	42	Vertical
3	10204.3600	33.31	-39.48	38.81	-62.62	-25.00	37.62	158	59	Vertical
4	12755.4500	30.11	-36.76	39.55	-62.36	-25.00	37.36	169	254	Vertical
5	15306.5400	29.10	-34.36	38.82	-61.70	-25.00	36.70	199	270	Vertical
6	17857.6300	32.55	-34.56	41.24	-56.03	-25.00	31.03	145	356	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.: SEWM2212000326RG01

Rev.: 01 Page: 44 of 44

#### **Frequency Stability**

#### **Test Result**

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	-4.10	-0.001617	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-1.20	-0.000473	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	-3.50	-0.001381	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-0.90	-0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-3.80	-0.001499	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-1.90	-0.000750	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-0.90	-0.000355	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-4.70	-0.001854	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	-2.40	-0.000947	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-0.40	-0.000158	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-3.70	-0.001460	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.50	-0.000986	PASS

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