



Report No.: SEWM2308000313RG01
Rev.: 01
Page: 1 of 30

Appendix B.7

LTE Band 14



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Report No.: SEWM2308000313RG01
 Rev.: 01
 Page: 2 of 30

Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	24.5	18.75	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.42	18.67	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.44	18.69	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.53	17.78	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.62	18.87	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.49	18.74	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.51	18.76	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.49	17.74	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.54	18.79	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.41	18.66	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.43	18.68	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.48	17.73	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.79	18.04	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.6	17.85	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.61	17.86	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.55	16.8	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.57	17.82	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.67	17.92	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.58	17.83	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.52	16.77	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.61	17.86	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.57	17.82	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.56	17.81	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.54	16.79	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.78	17.03	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.6	16.85	34.77	PASS



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Report No.: SEWM2308000313RG01

Rev.: 01

Page: 3 of 30

Band14	5MHz	64QAM	23305	1RB#24	22.68	16.93	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	21.48	15.73	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.63	16.88	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.68	16.93	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.7	16.95	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.5	15.75	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.67	16.92	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.65	16.9	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.6	16.85	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.5	15.75	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	19.71	13.96	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	19.55	13.8	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.57	13.82	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.5	13.75	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.54	13.79	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.55	13.8	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	19.55	13.8	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	19.46	13.71	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	19.63	13.88	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.6	13.85	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	19.55	13.8	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	19.42	13.67	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.41	18.66	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	24.48	18.73	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.5	18.75	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.52	17.77	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.68	17.93	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.63	17.88	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.58	17.83	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.48	16.73	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.68	16.93	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.72	16.97	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	22.63	16.88	34.77	PASS



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Report No.: SEWM2308000313RG01

Rev.: 01

Page: 4 of 30

Band14	10MHz	64QAM	23330	50RB#0	21.49	15.74	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	19.64	13.89	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	19.51	13.76	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	19.53	13.78	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	19.48	13.73	34.77	PASS



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Report No.: SEWM2308000313RG01
 Rev.: 01
 Page: 5 of 30

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	4.94	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.72	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.12	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.52	13	PASS



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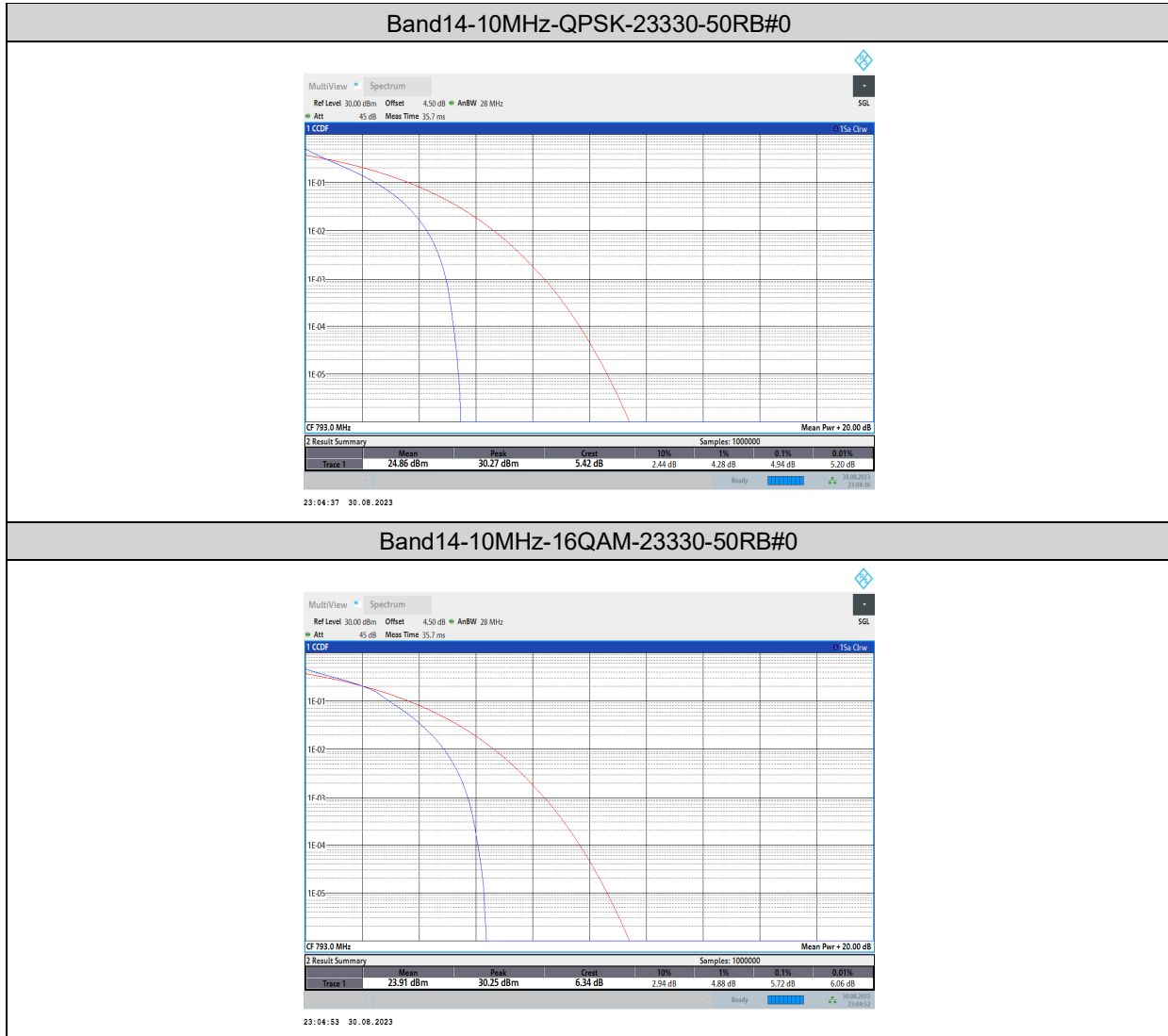
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Test Graphs



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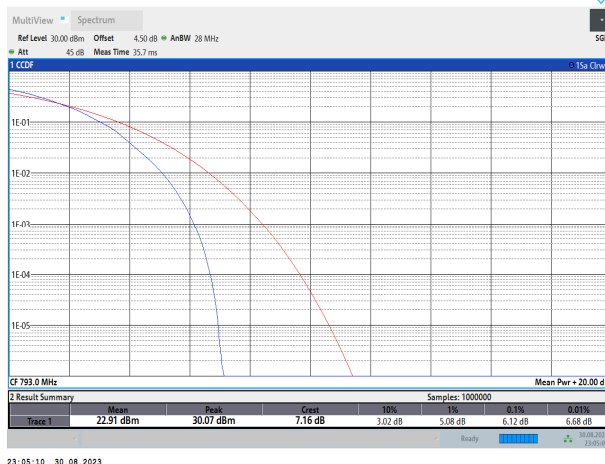
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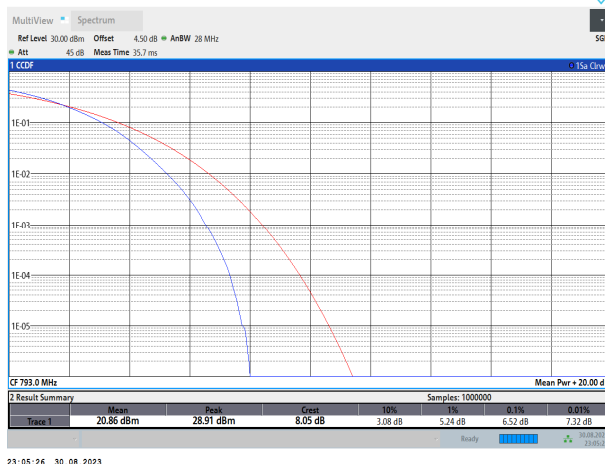


Report No.: SEWM2308000313RG01
Rev.: 01
Page: 7 of 30

Band14-10MHz-64QAM-23330-50RB#0



Band14-10MHz-256QAM-23330-50RB#0



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Report No.: SEWM2308000313RG01
Rev.: 01
Page: 8 of 30

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23330	25RB#0	4.468	4.87	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.467	4.86	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.469	4.85	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.469	4.85	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.948	9.60	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.934	9.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.96	9.73	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.94	9.67	PASS



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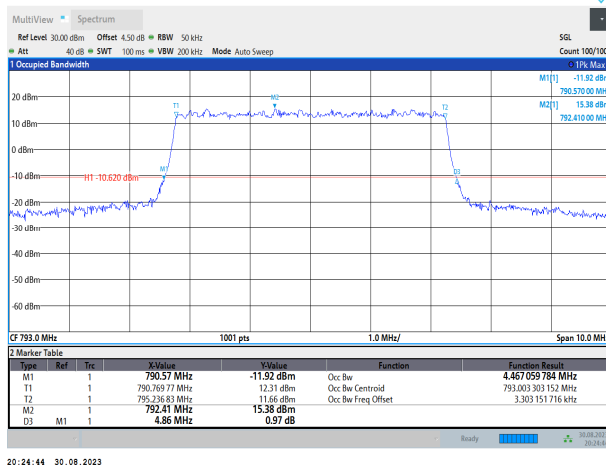
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Test Graphs

Band14-5MHz-QPSK-23330-25RB#0



Band14-5MHz-16QAM-23330-25RB#0



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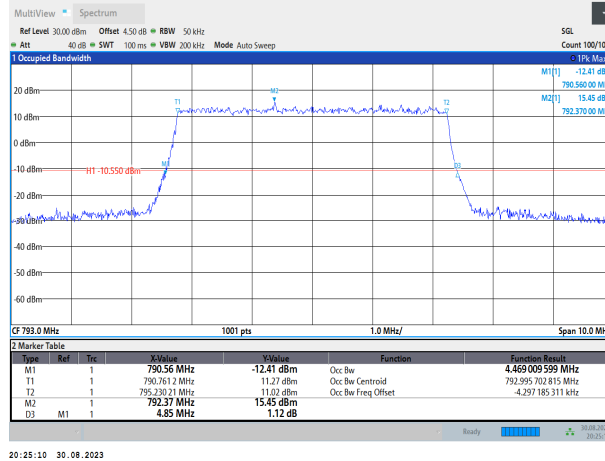
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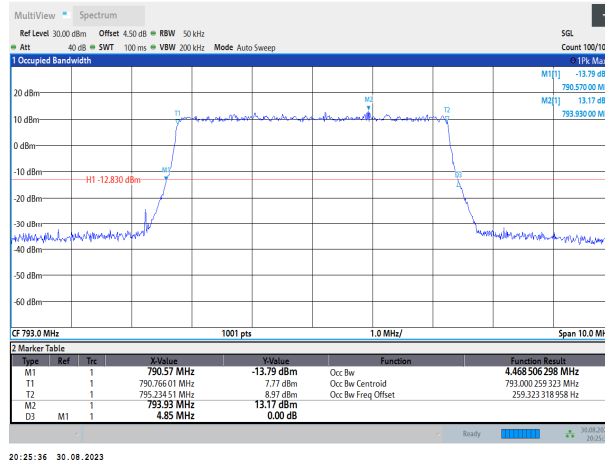
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Page: 10 of 30

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Band14-5MHz-256QAM-23330-25RB#0



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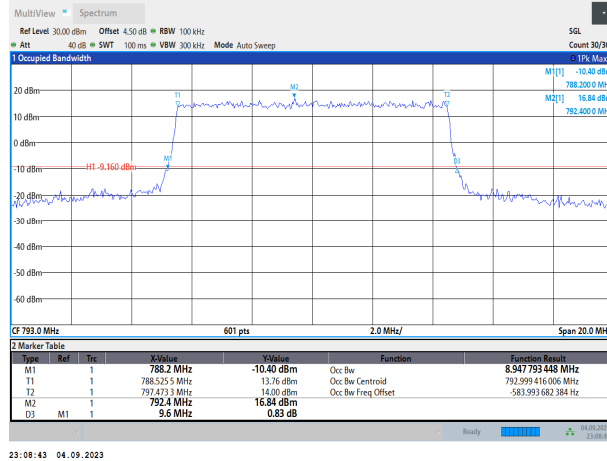
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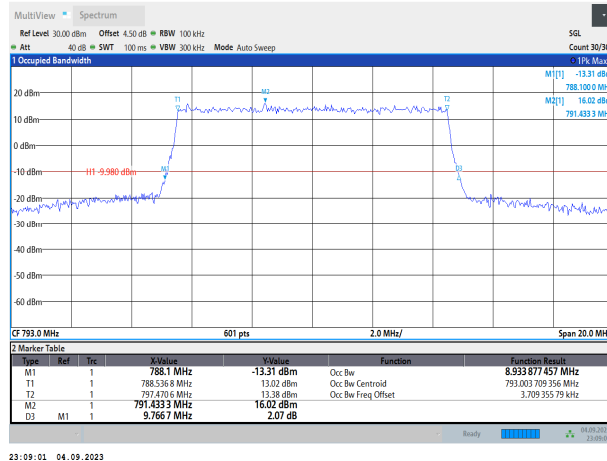
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Page: 11 of 30

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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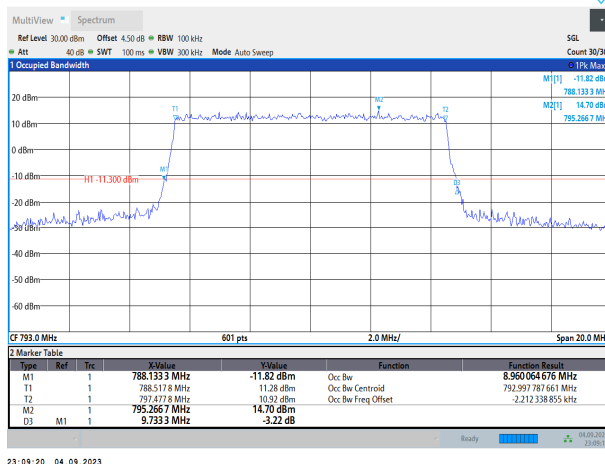
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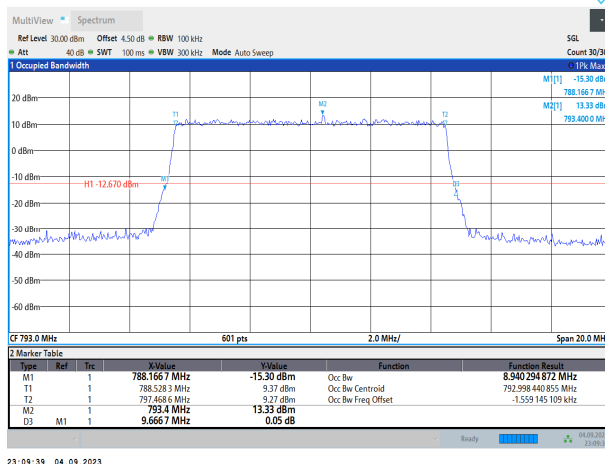
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Report No.: SEWM2308000313RG01
Rev.: 01
Page: 12 of 30

Band14-10MHz-64QAM-23330-50RB#0



Band14-10MHz-256QAM-23330-50RB#0



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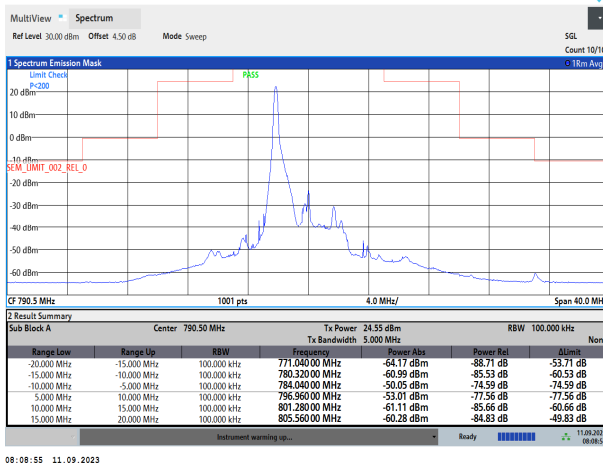
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Rev.: 01
Page: 13 of 30

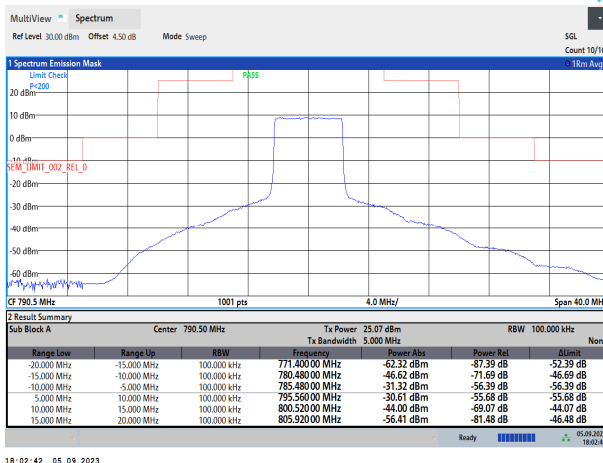
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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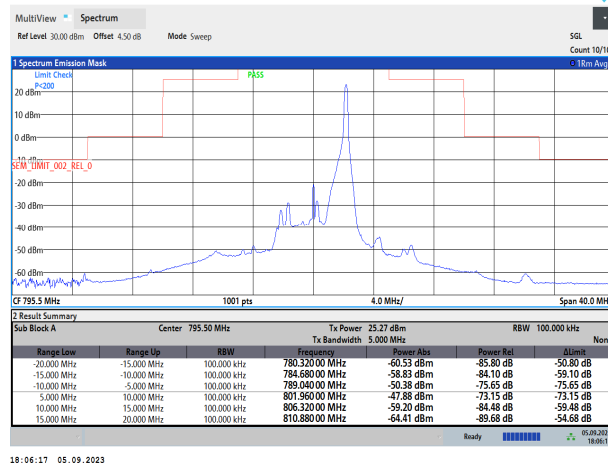
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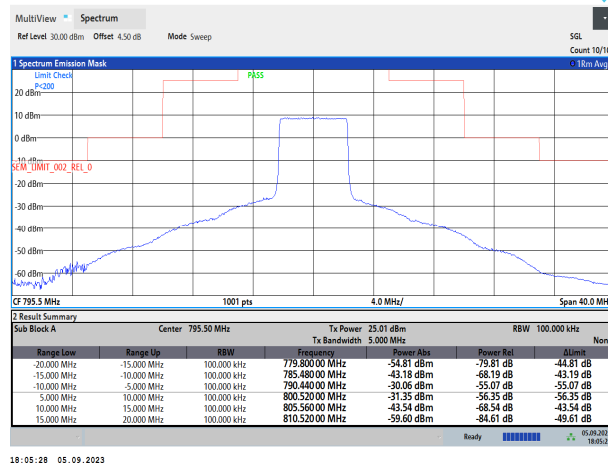
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Page: 14 of 30

Band14-5MHz-QPSK-23355-1RB#24



Band14-5MHz-QPSK-23355-25RB#0



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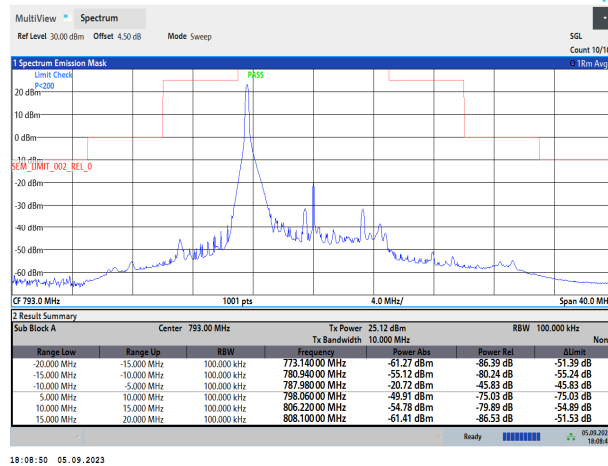
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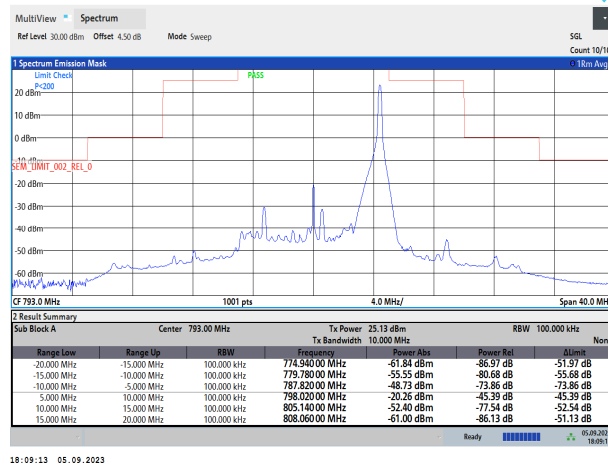
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Band14-10MHz-QPSK-23330-1RB#0



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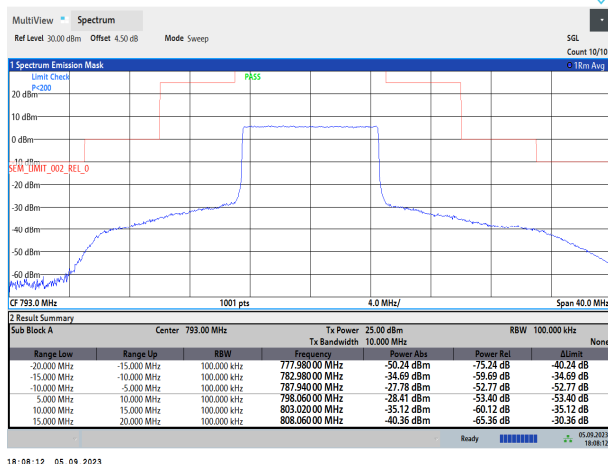
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Page: 16 of 30

Band14-10MHz-QPSK-23330-50RB#0



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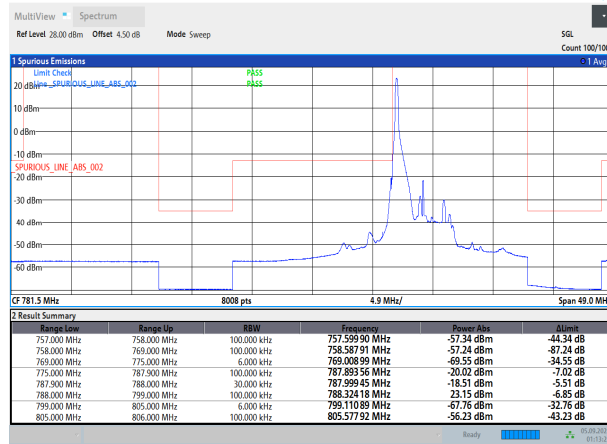
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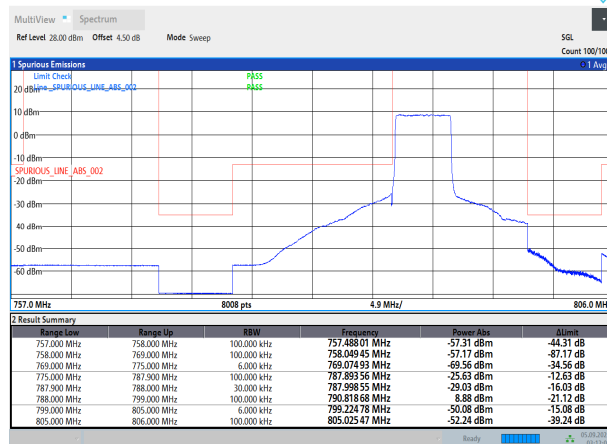
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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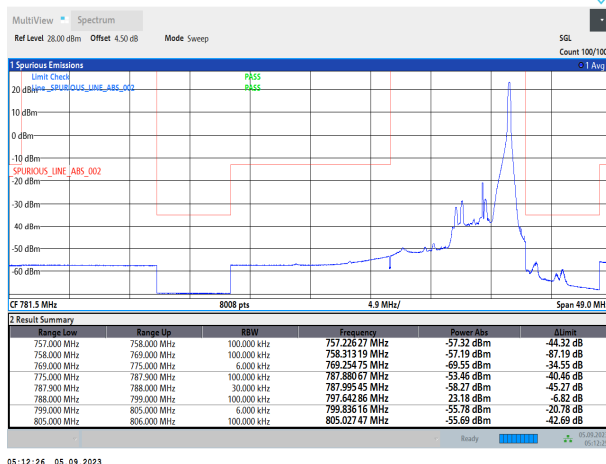
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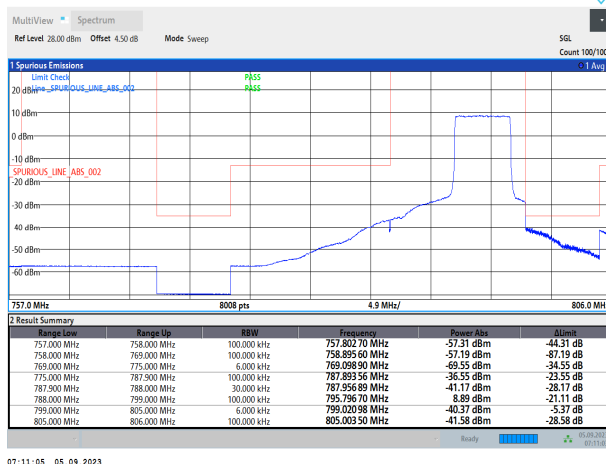
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Page: 18 of 30

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Band14-5MHz-QPSK-23355-25RB#0



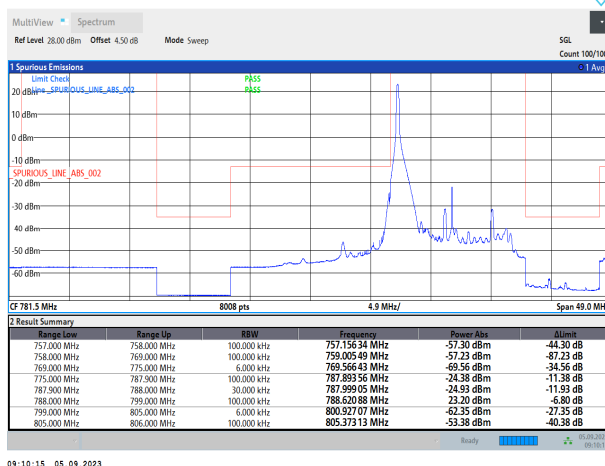
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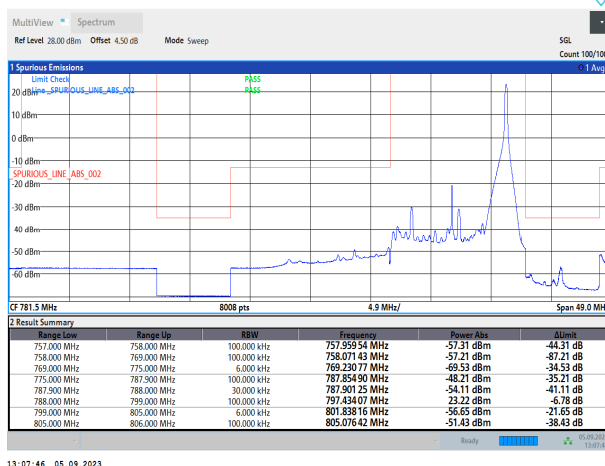
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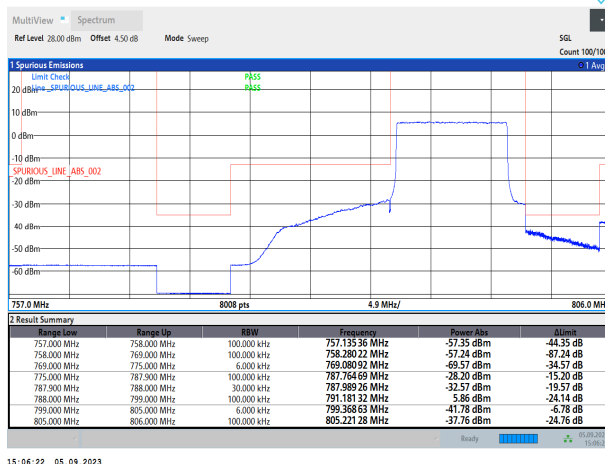
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Rev.: 01
Page: 20 of 30

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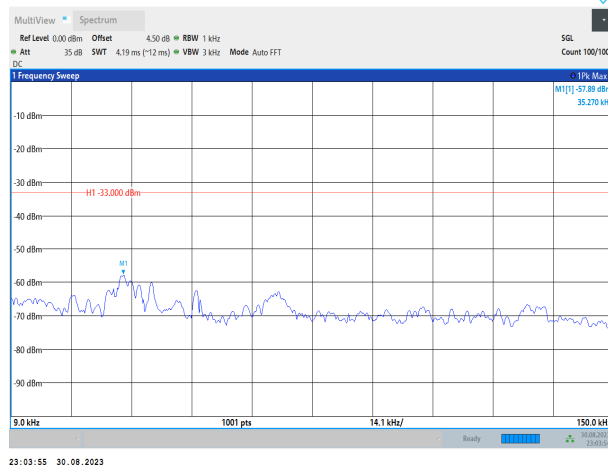


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Rev.: 01
Page: 21 of 30

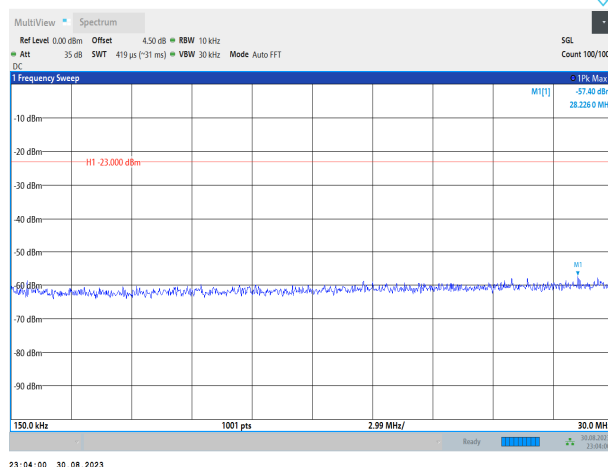
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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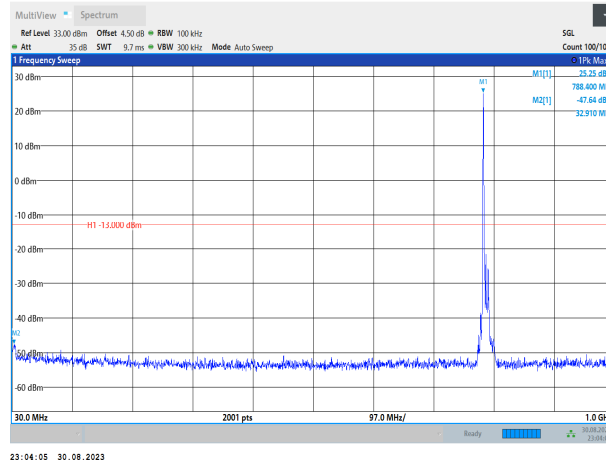
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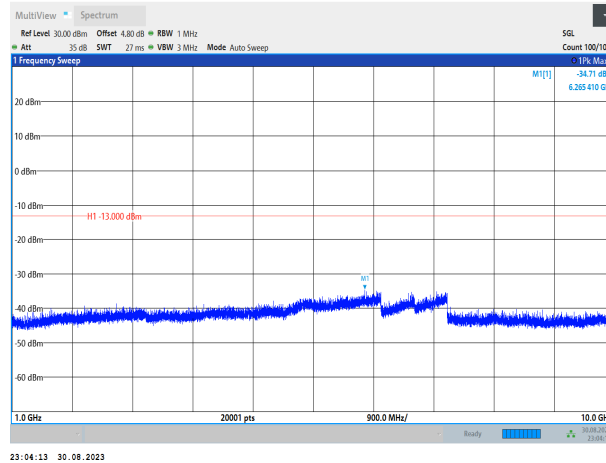
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Page: 22 of 30

Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Report No.: SEWM2308000313RG01
 Rev.: 01
 Page: 23 of 30

Field Strength of Spurious Radiation

Test Band = LTE Band14_10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1800	49.46	-48.29	25.19	-68.90	-40.00	28.90	Horizontal
2	2365.7700	43.61	-47.47	26.93	-72.19	-13.00	59.19	Horizontal
3	3154.3600	42.91	-46.50	28.39	-70.45	-13.00	57.45	Horizontal
4	3942.9500	42.12	-46.22	29.04	-70.31	-13.00	57.31	Horizontal
5	4731.5400	41.38	-45.75	30.81	-68.82	-13.00	55.82	Horizontal
6	5520.1300	41.12	-45.17	32.60	-66.70	-13.00	53.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1800	46.40	-48.29	25.19	-71.96	-40.00	31.96	Vertical
2	2365.7700	43.50	-47.47	26.93	-72.30	-13.00	59.30	Vertical
3	3154.3600	42.47	-46.50	28.39	-70.89	-13.00	57.89	Vertical
4	3942.9500	42.03	-46.22	29.04	-70.40	-13.00	57.40	Vertical
5	4731.5400	41.31	-45.75	30.81	-68.89	-13.00	55.89	Vertical
6	5520.1300	40.15	-45.17	32.60	-67.67	-13.00	54.67	Vertical



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Report No.: SEWM2308000313RG01

Rev.: 01

Page: 24 of 30

Test Band = LTE Band14_5M_ TM1

Test Channel = Low

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1579.6800	43.63	-48.29	25.19	-74.73	-40.00	34.73	Horizontal
2	2365.0200	43.93	-47.47	26.92	-71.88	-13.00	58.88	Horizontal
3	3153.3600	42.11	-46.50	28.39	-71.26	-13.00	58.26	Horizontal
4	3941.7000	41.75	-46.22	29.04	-70.69	-13.00	57.69	Horizontal
5	4730.0400	40.62	-45.75	30.81	-69.58	-13.00	56.58	Horizontal
6	5518.3800	39.93	-45.16	32.60	-67.89	-13.00	54.89	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1579.6800	43.56	-48.29	25.19	-74.80	-40.00	34.80	Vertical
2	2365.0200	43.33	-47.47	26.92	-72.48	-13.00	59.48	Vertical
3	3153.3600	42.41	-46.50	28.39	-70.96	-13.00	57.96	Vertical
4	3941.7000	41.44	-46.22	29.04	-71.00	-13.00	58.00	Vertical
5	4730.0400	41.05	-45.75	30.81	-69.15	-13.00	56.15	Vertical
6	5518.3800	40.07	-45.16	32.60	-67.75	-13.00	54.75	Vertical



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Test Band = LTE Band14_5M_ TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	50.51	-48.29	25.19	-67.85	-40.00	27.85	Horizontal
2	2372.5200	43.60	-47.46	26.94	-72.18	-13.00	59.18	Horizontal
3	3163.3600	43.29	-46.46	28.40	-70.03	-13.00	57.03	Horizontal
4	3954.2000	41.91	-46.21	29.05	-70.51	-13.00	57.51	Horizontal
5	4745.0400	41.65	-45.73	30.84	-68.50	-13.00	55.50	Horizontal
6	5535.8800	40.39	-45.19	32.61	-67.45	-13.00	54.45	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.6800	48.13	-48.29	25.19	-70.23	-40.00	30.23	Vertical
2	2372.5200	43.83	-47.46	26.94	-71.95	-13.00	58.95	Vertical
3	3163.3600	43.24	-46.46	28.40	-70.08	-13.00	57.08	Vertical
4	3954.2000	42.31	-46.21	29.05	-70.11	-13.00	57.11	Vertical
5	4745.0400	40.81	-45.73	30.84	-69.34	-13.00	56.34	Vertical
6	5535.8800	40.31	-45.19	32.61	-67.53	-13.00	54.53	Vertical



Report No.: SEWM2308000313RG01
 Rev.: 01
 Page: 26 of 30

Test Band = LTE Band14_5M_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	50.69	-48.29	25.19	-67.66	-40.00	27.66	Horizontal
2	2380.0200	43.69	-47.46	26.97	-72.06	-13.00	59.06	Horizontal
3	3173.3600	43.21	-46.41	28.40	-70.06	-13.00	57.06	Horizontal
4	3966.7000	41.70	-46.21	29.07	-70.70	-13.00	57.70	Horizontal
5	4760.0400	40.67	-45.70	30.87	-69.42	-13.00	56.42	Horizontal
6	5553.3800	40.23	-45.21	32.61	-67.63	-13.00	54.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1586.6800	45.82	-48.29	25.19	-72.53	-40.00	32.53	Vertical
2	2380.0200	43.88	-47.46	26.97	-71.87	-13.00	58.87	Vertical
3	3173.3600	43.32	-46.41	28.40	-69.95	-13.00	56.95	Vertical
4	3966.7000	41.57	-46.21	29.07	-70.83	-13.00	57.83	Vertical
5	4760.0400	40.71	-45.70	30.87	-69.38	-13.00	56.38	Vertical
6	5553.3800	40.56	-45.21	32.61	-67.30	-13.00	54.30	Vertical



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Report No.: SEWM2308000313RG01
 Rev.: 01
 Page: 27 of 30

Test Band = LTE 14A_66A_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1585.1429	44.51	-48.29	25.19	-73.84	-40.00	33.84	Horizontal
2	2097.1429	43.69	-47.72	26.17	-73.11	-13.00	60.11	Horizontal
3	3059.4286	43.06	-46.66	28.34	-70.52	-13.00	57.52	Horizontal
4	3827.4286	42.05	-46.18	28.93	-70.46	-13.00	57.46	Horizontal
5	6080.5714	40.82	-44.64	32.96	-66.12	-13.00	53.12	Horizontal
6	6989.1429	39.91	-43.64	35.18	-63.80	-13.00	50.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1593.1429	44.32	-48.28	25.20	-74.03	-40.00	34.03	Vertical
2	2534.8571	43.34	-47.15	27.37	-71.70	-13.00	58.70	Vertical
3	3348	43.31	-46.61	28.51	-70.05	-13.00	57.05	Vertical
4	4432	42.23	-45.80	30.14	-68.69	-13.00	55.69	Vertical
5	5980.5714	41.41	-44.53	32.70	-65.69	-13.00	52.69	Vertical
6	7201.7143	39.63	-43.86	35.76	-63.73	-13.00	50.73	Vertical



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Report No.: SEWM2308000313RG01

Rev.: 01

Page: 28 of 30

Test Band = LTE 14A_66A_ TM1

Test Channel = Mid

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1601.7143	44.59	-48.28	25.20	-73.75	-40.00	33.75	Horizontal
2	1897.7143	43.86	-48.05	25.70	-73.75	-13.00	60.75	Horizontal
3	2608	43.31	-46.94	27.52	-71.37	-13.00	58.37	Horizontal
4	3358.2857	42.74	-46.60	28.51	-70.60	-13.00	57.60	Horizontal
5	4739.4286	41.22	-45.74	30.83	-68.95	-13.00	55.95	Horizontal
6	6622.8571	40.66	-44.39	34.52	-64.47	-13.00	51.47	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577.1429	44.25	-48.29	25.19	-74.11	-40.00	34.11	Vertical
2	1960	43.68	-47.96	25.82	-73.72	-13.00	60.72	Vertical
3	2925.7143	42.86	-46.56	28.15	-70.81	-13.00	57.81	Vertical
4	3578.2857	42.90	-46.38	28.68	-70.07	-13.00	57.07	Vertical
5	5534.8571	40.74	-45.19	32.61	-67.10	-13.00	54.10	Vertical
6	6802.8571	40.02	-44.12	34.85	-64.52	-13.00	51.52	Vertical



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Report No.: SEWM2308000313RG01
 Rev.: 01
 Page: 29 of 30

Test Band = LTE 14A_66A_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1592.5714	44.29	-48.28	25.20	-74.06	-40.00	34.06	Horizontal
2	2012.5714	43.52	-47.88	25.94	-73.68	-13.00	60.68	Horizontal
3	2780	43.09	-46.95	27.86	-71.26	-13.00	58.26	Horizontal
4	3838.8571	41.76	-46.19	28.94	-70.75	-13.00	57.75	Horizontal
5	5222.8571	40.50	-45.06	31.93	-67.88	-13.00	54.88	Horizontal
6	6767.4286	40.04	-44.10	34.78	-64.54	-13.00	51.54	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1573.7143	44.64	-48.29	25.19	-73.72	-40.00	33.72	Vertical
2	2085.1429	43.28	-47.74	26.14	-73.58	-13.00	60.58	Vertical
3	3441.7143	42.54	-46.54	28.57	-70.69	-13.00	57.69	Vertical
4	3784.5714	41.41	-46.16	28.88	-71.12	-13.00	58.12	Vertical
5	5065.1429	40.91	-45.53	31.56	-68.32	-13.00	55.32	Vertical
6	6670.8571	39.66	-44.19	34.61	-65.18	-13.00	52.18	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





Report No.: SEWM2308000313RG01

Rev.: 01

Page: 30 of 30

Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-1.90	-0.002396	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.60	0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.80	-0.002270	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	3.30	0.004161	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	1.10	0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	2.00	0.002522	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-6.00	-0.007566	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-3.20	-0.004035	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.50	-0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-4.90	-0.006179	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-0.20	-0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	0.40	0.000504	PASS

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