

Appendix B.7

LTE Band 14



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	22.74	24.22	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.71	25.19	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.59	24.07	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	21.96	23.44	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	22.77	24.25	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.97	24.45	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.81	24.29	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.9	23.38	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.79	24.27	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.94	24.42	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.53	24.01	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.96	23.44	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.25	22.73	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	21.68	23.16	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.47	22.95	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.03	22.51	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.39	22.87	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.99	23.47	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.33	22.81	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	20.86	22.34	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.69	23.17	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.63	23.11	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.02	22.5	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.94	22.42	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	20.5	21.98	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.21	22.69	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	20.74	22.22	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	19.89	21.37	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	20.6	22.08	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	20.89	22.37	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	20.48	21.96	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	19.79	21.27	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	20.72	22.2	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	20.99	22.47	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	20.95	22.43	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	19.99	21.47	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23	24.48	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.94	24.42	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.67	24.15	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.04	23.52	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.26	23.74	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.08	23.56	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.04	23.52	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.1	22.58	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	20.66	22.14	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.24	22.72	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	20.89	22.37	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	19.92	21.4	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

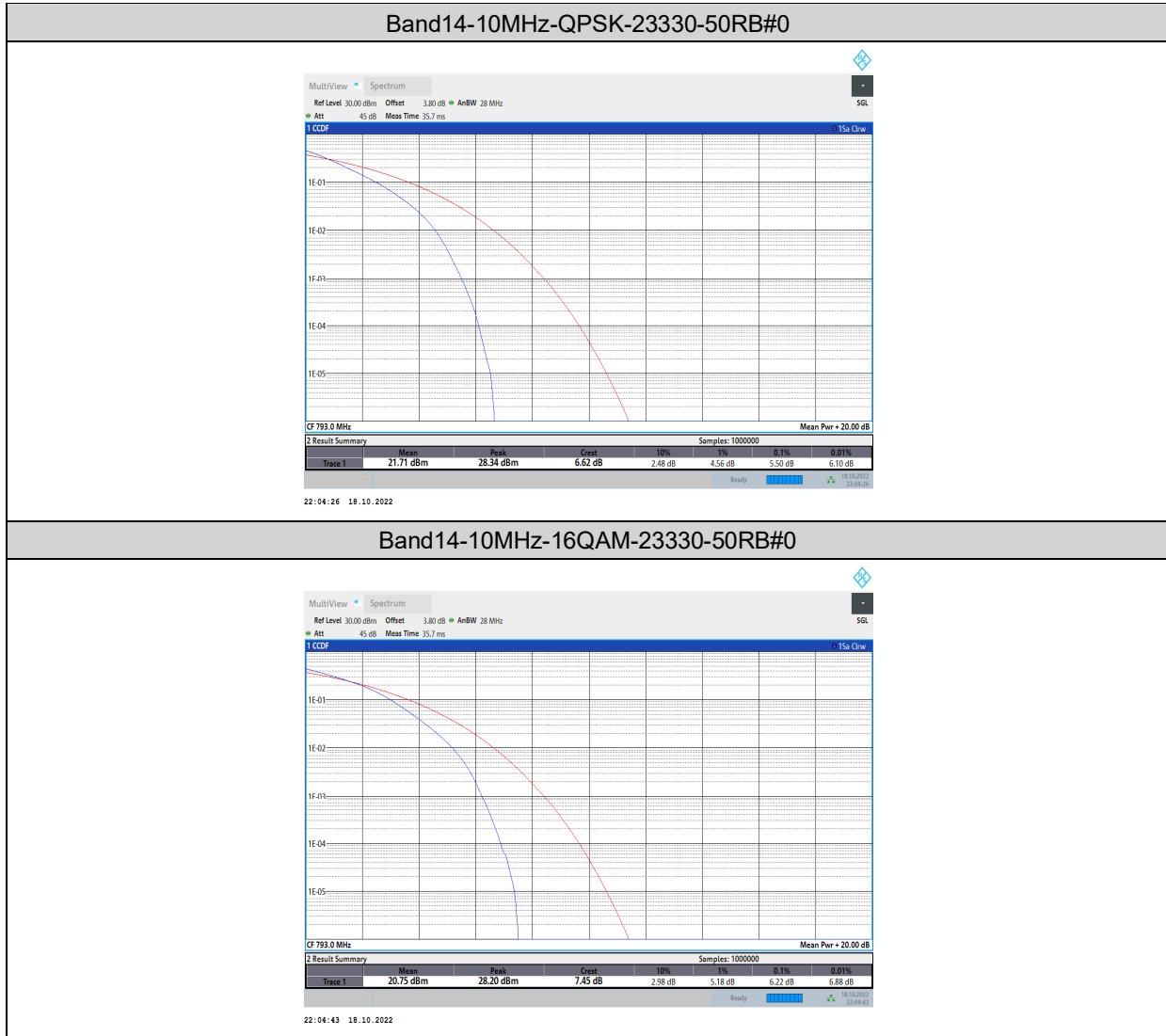
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.50	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.22	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.76	13	PASS



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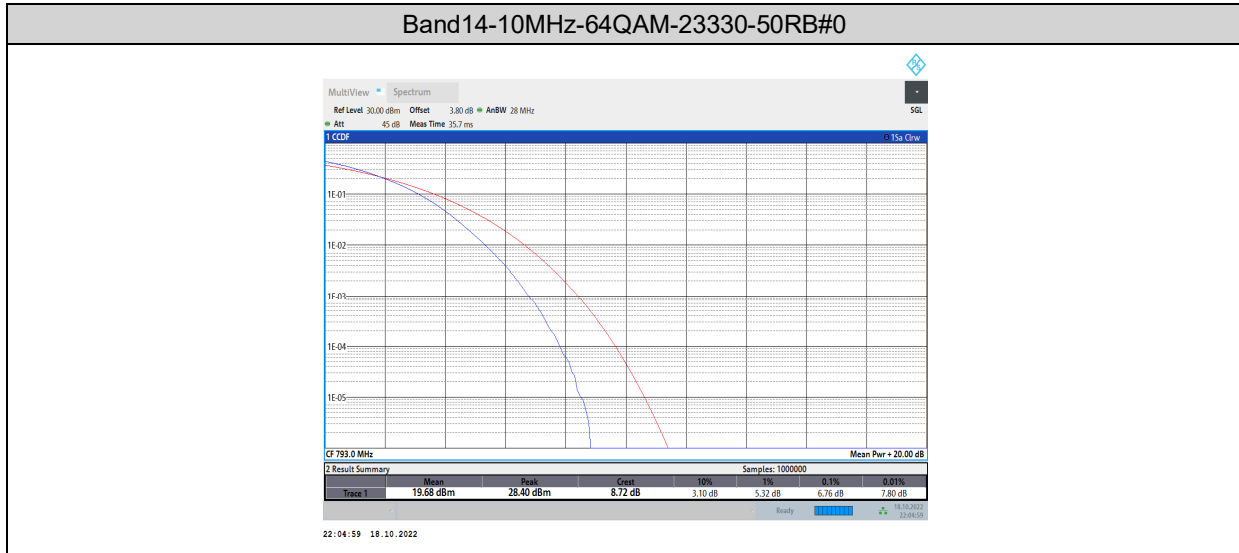
Test Graphs



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



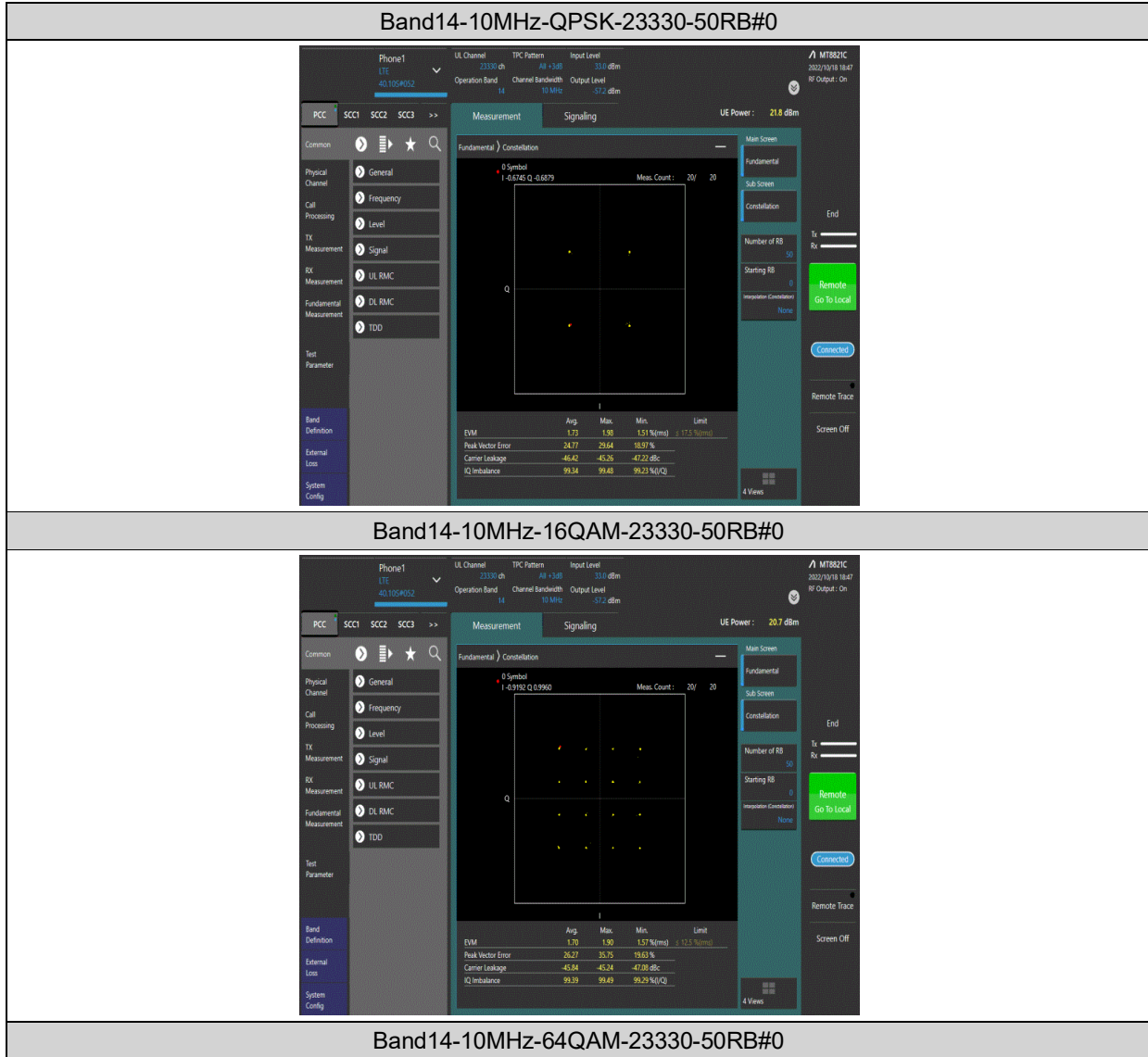
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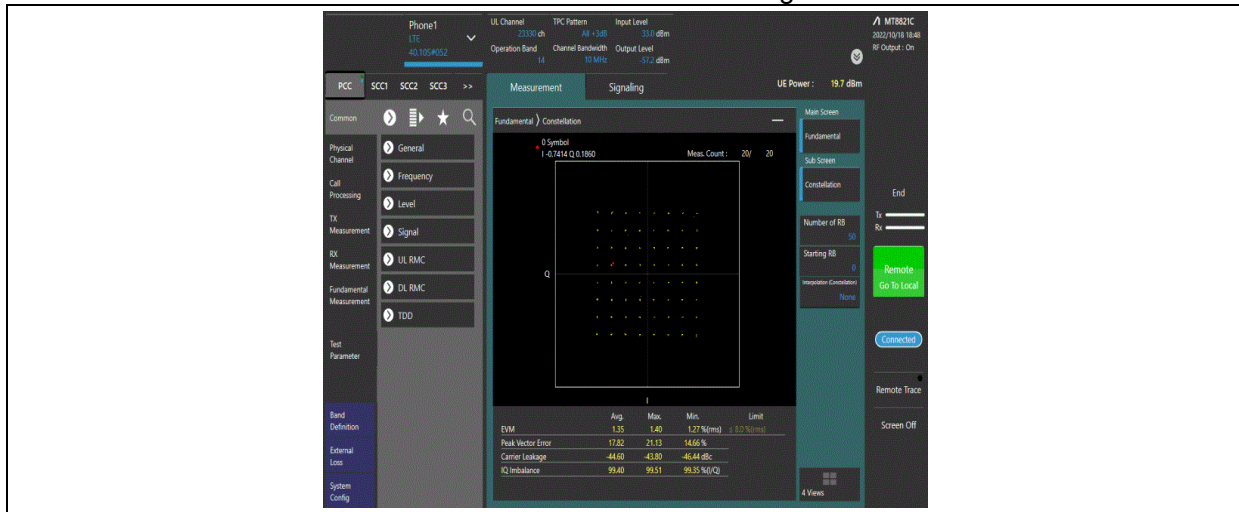
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

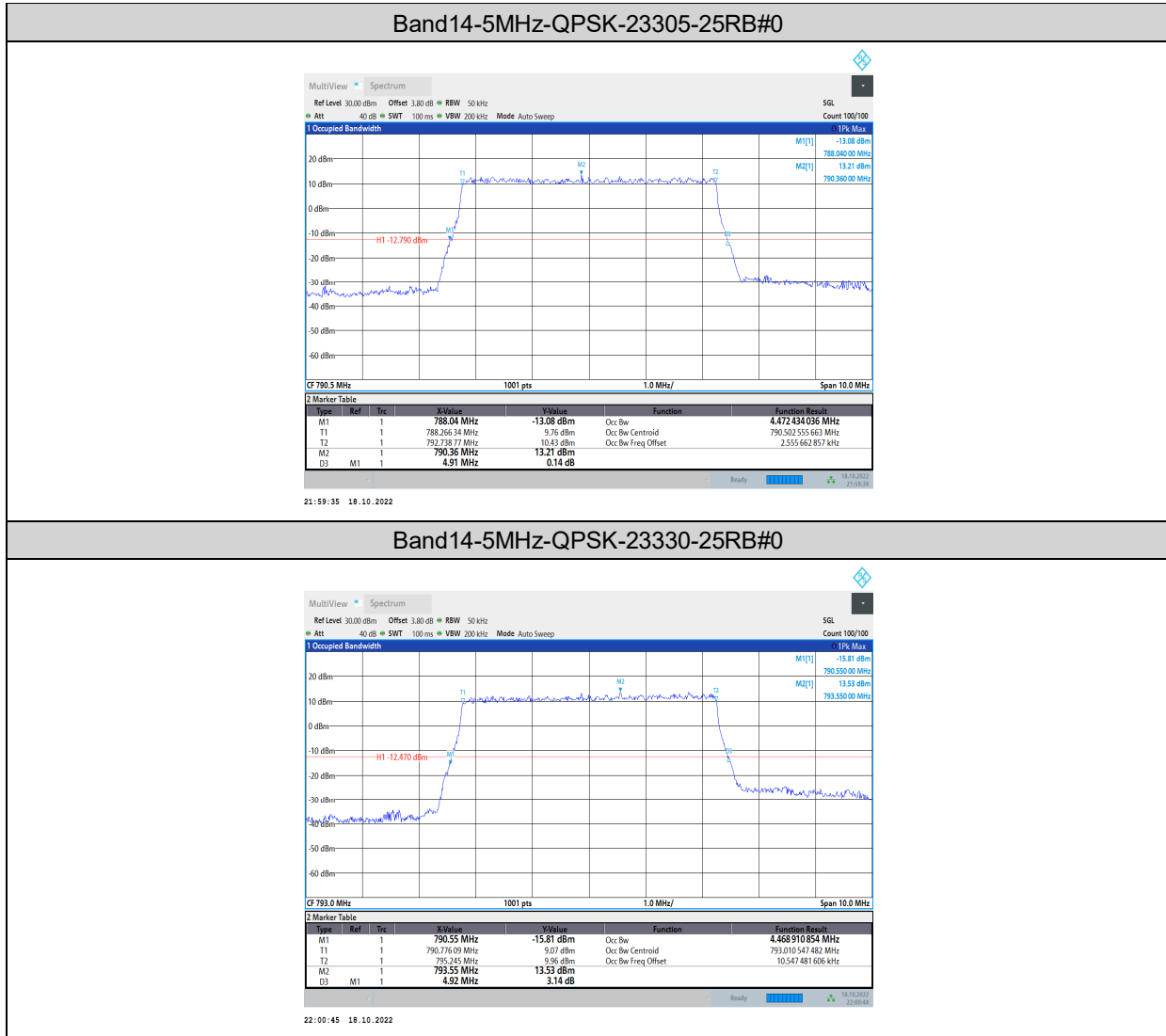
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.472	4.91	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.469	4.92	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.463	4.90	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.469	4.95	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.47	4.97	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.463	4.94	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.483	4.93	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.482	4.93	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.477	4.91	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.925	9.70	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.92	9.70	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.93	9.70	PASS



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Test Graphs

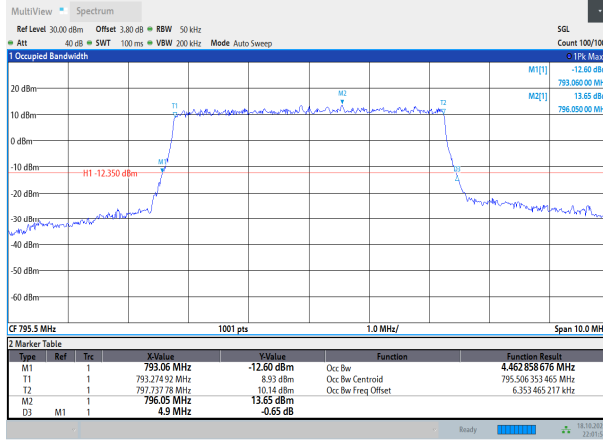


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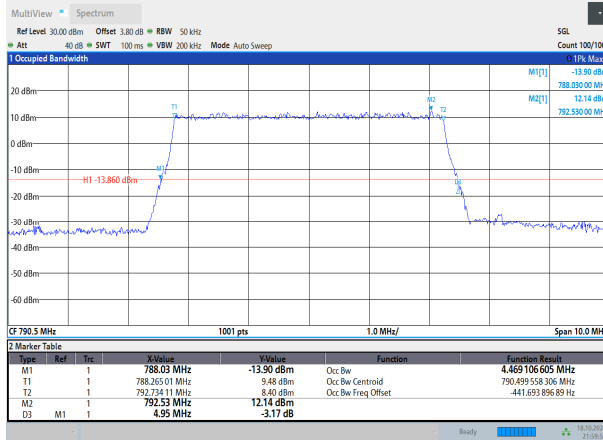
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Band14-5MHz-QPSK-23355-25RB#0



22:01:56 18.10.2022

Band14-5MHz-16QAM-23305-25RB#0



21:59:58 18.10.2022



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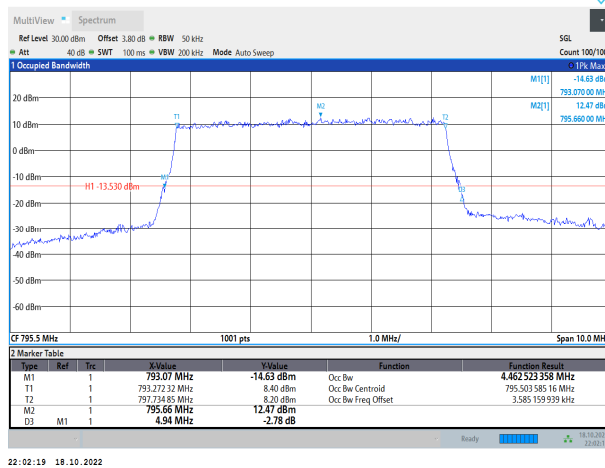
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Band14-5MHz-16QAM-23330-25RB#0



Band14-5MHz-16QAM-23355-25RB#0

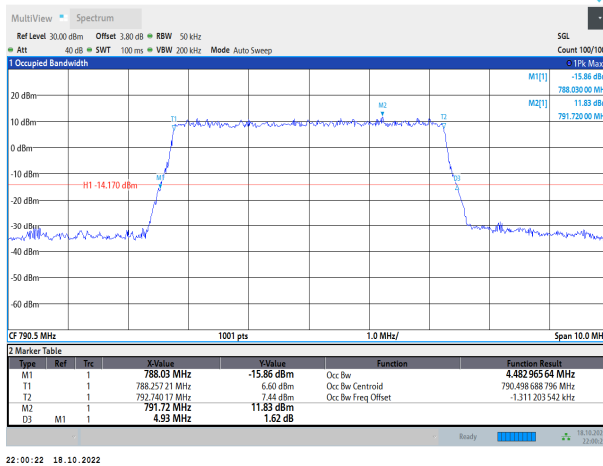


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Band14-5MHz-64QAM-23305-25RB#0



Band14-5MHz-64QAM-23330-25RB#0

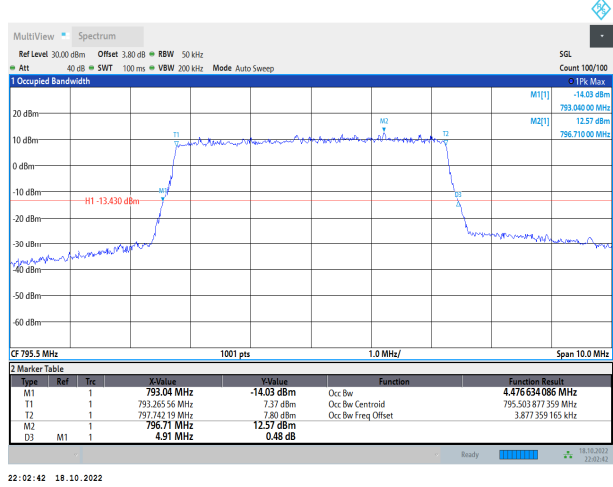


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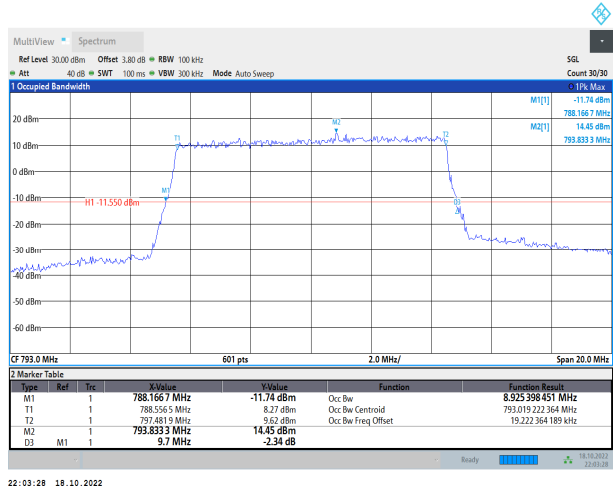
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Band14-5MHz-64QAM-23355-25RB#0



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

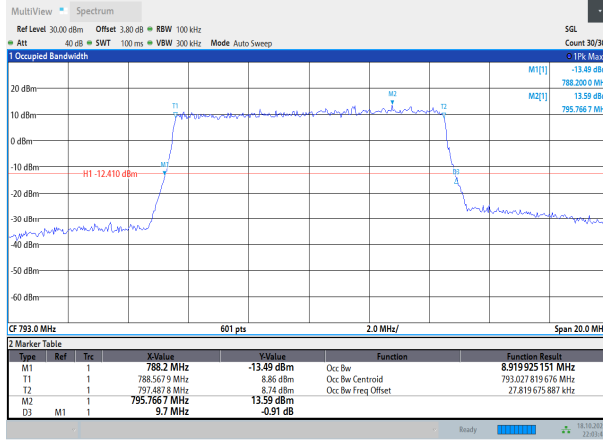


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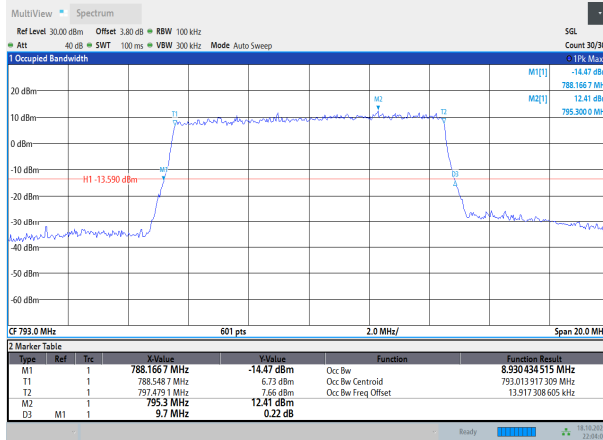
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Band14-10MHz-16QAM-23330-50RB#0



22:03:44 18.10.2022

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



22:04:00 18.10.2022



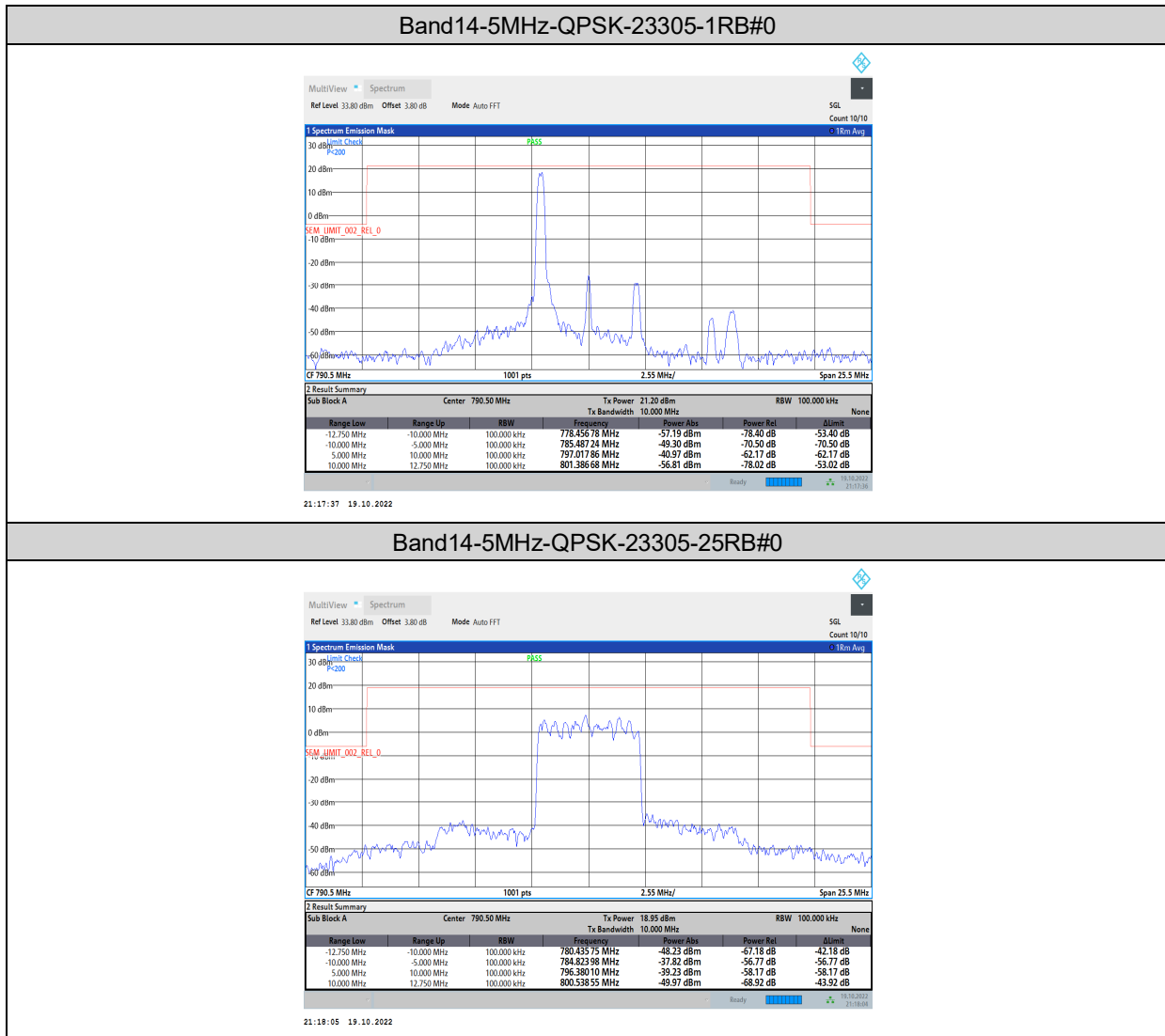
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Emission Mask

Test Graphs

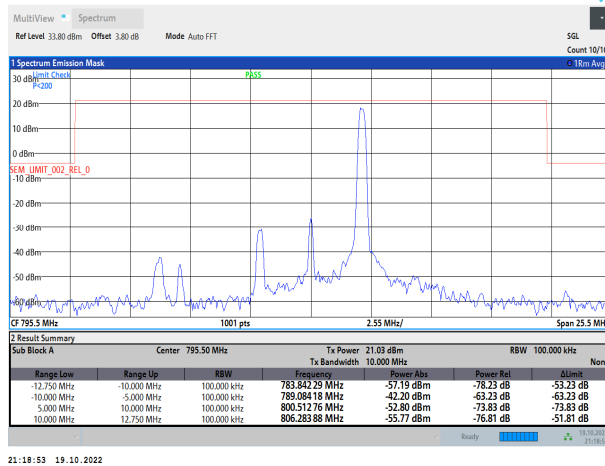


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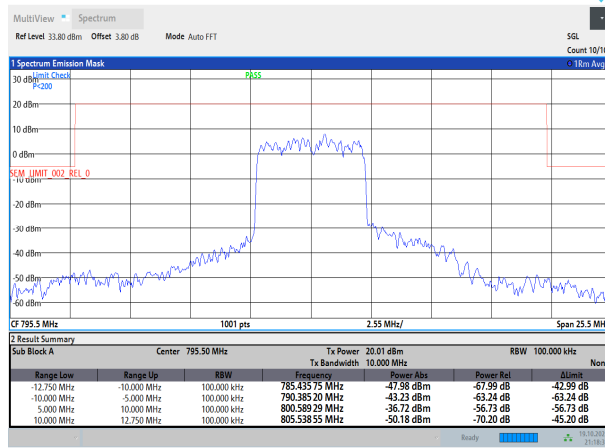
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Band14-5MHz-QPSK-23355-1RB#24



21:18:53 19.10.2022

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



21:18:34 19.10.2022

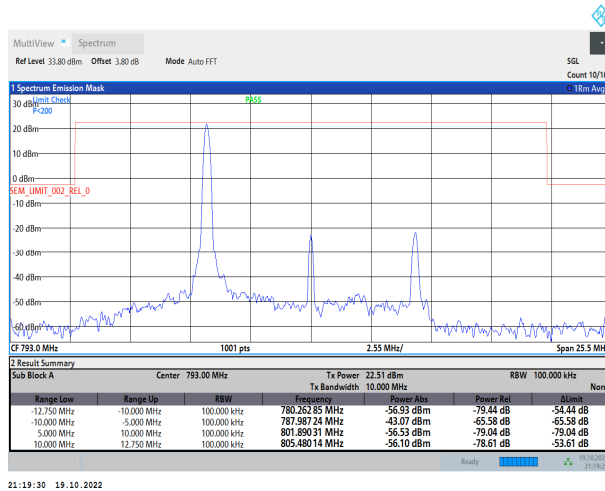


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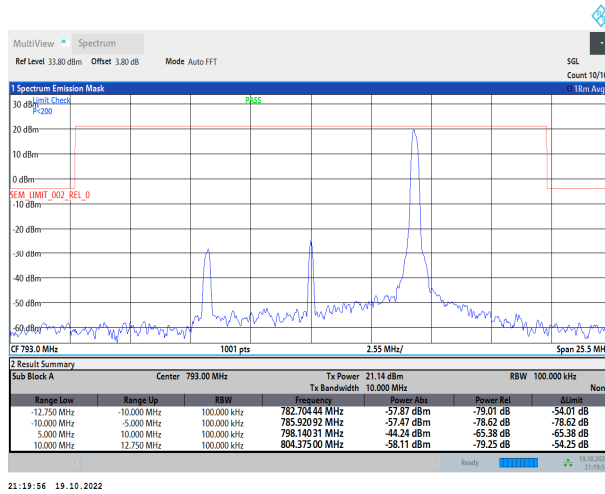
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Band14-10MHz-QPSK-23330-1RB#0



Band14-10MHz-QPSK-23330-1RB#49

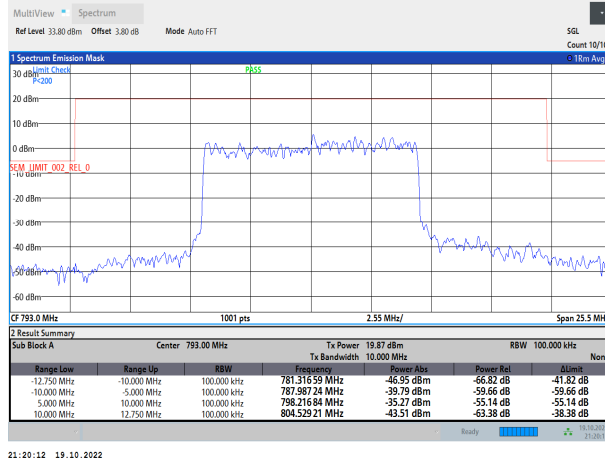


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Band14-10MHz-QPSK-23330-50RB#0



21:20:12 19.10.2022



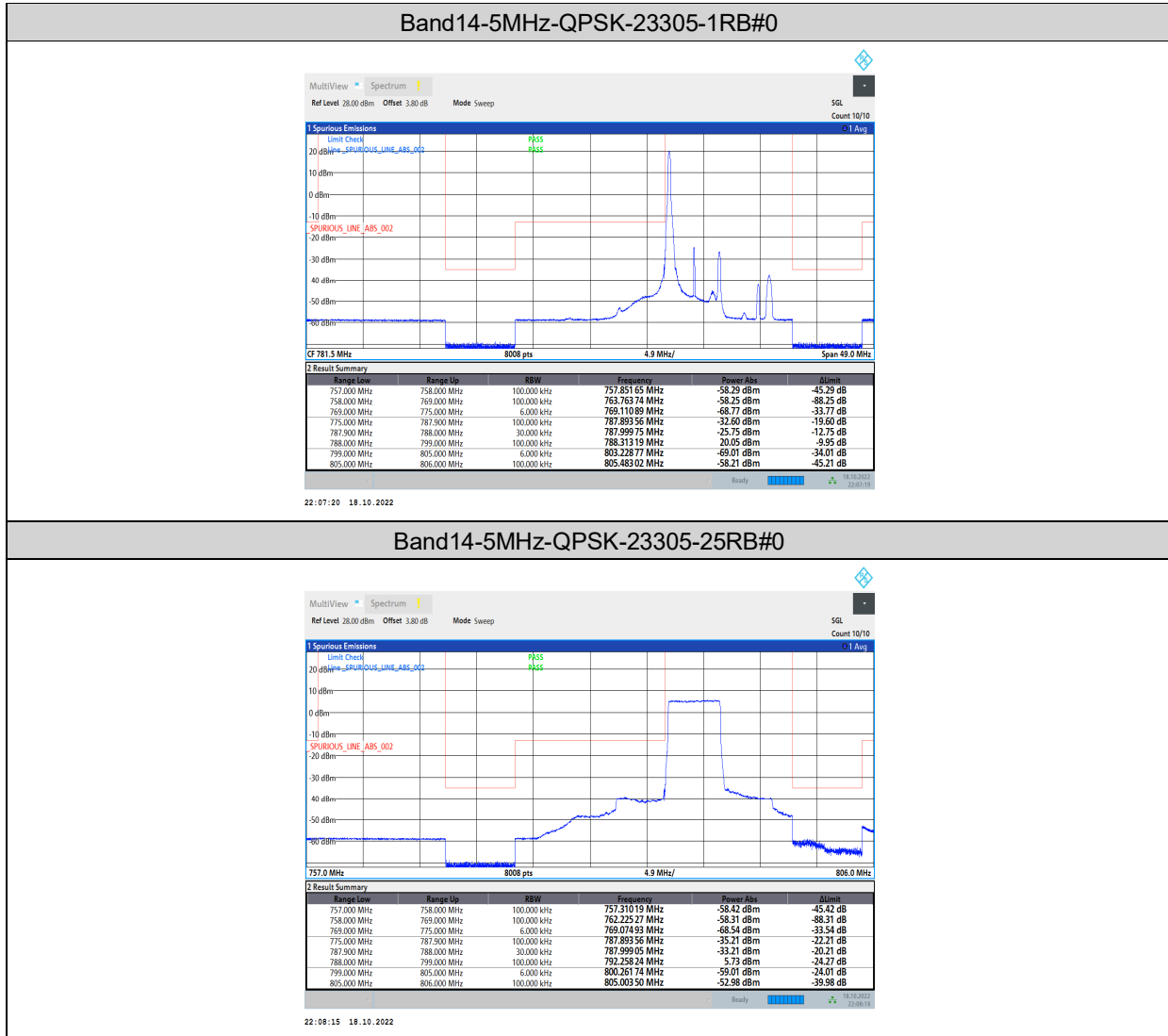
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Band Edge

Test Graphs

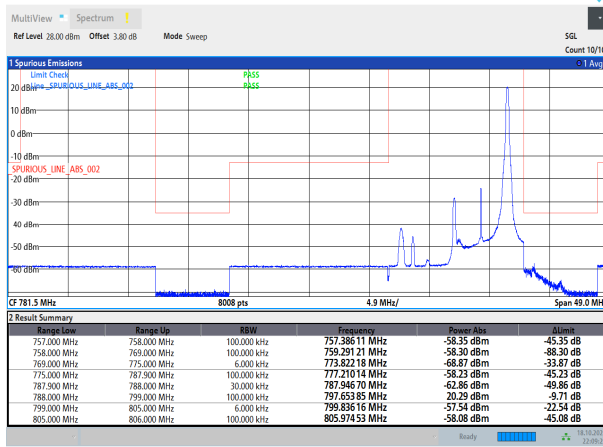


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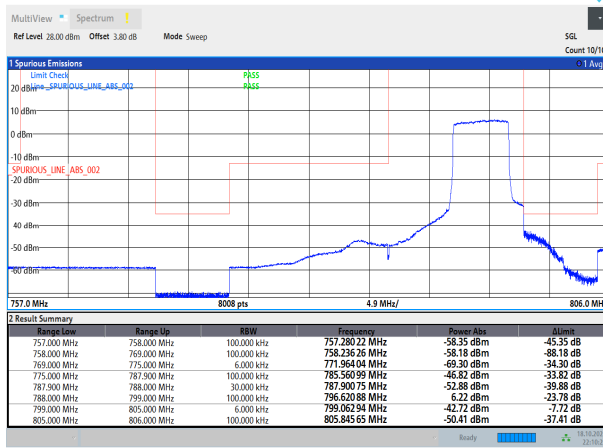
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Band14-5MHz-QPSK-23355-25RB#0

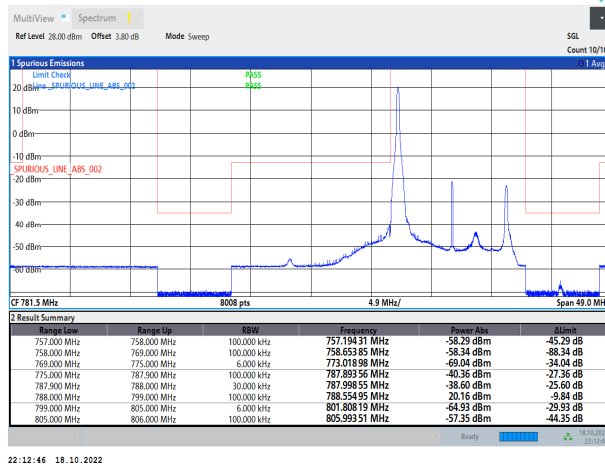


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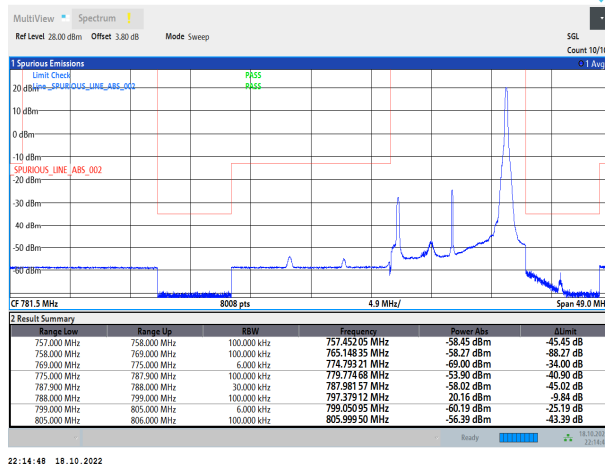
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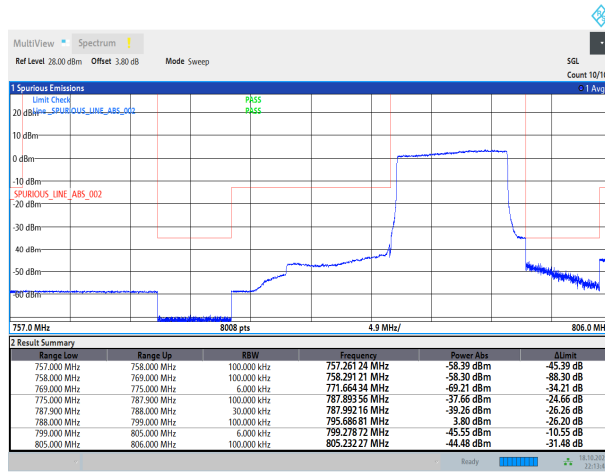


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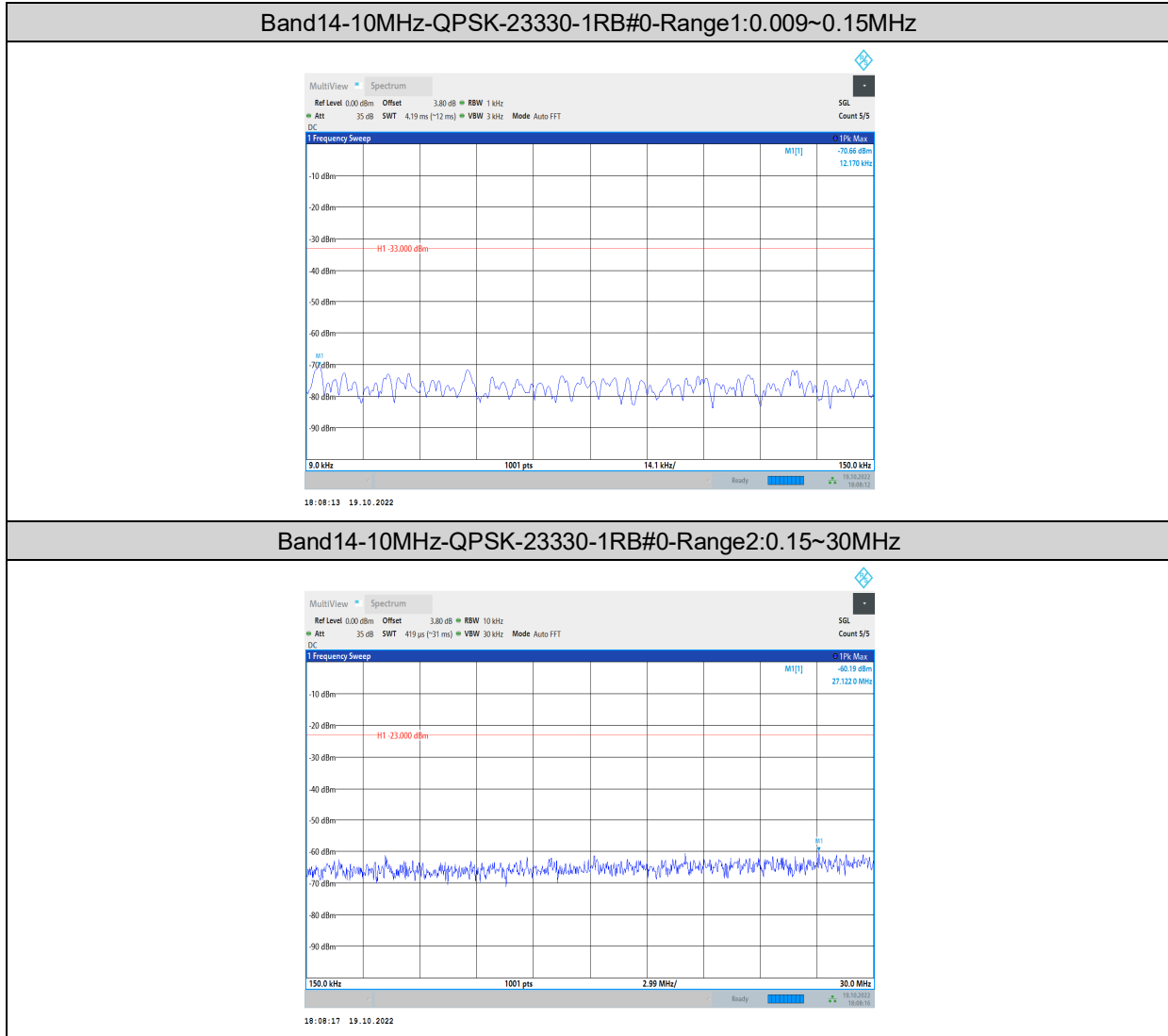
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Conducted Spurious Emission

Test Graphs

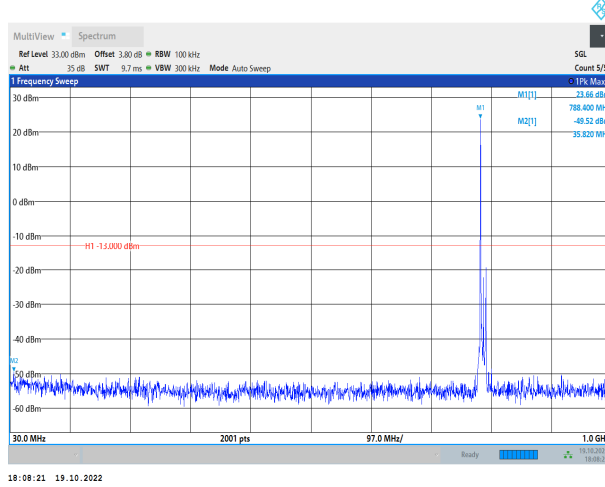


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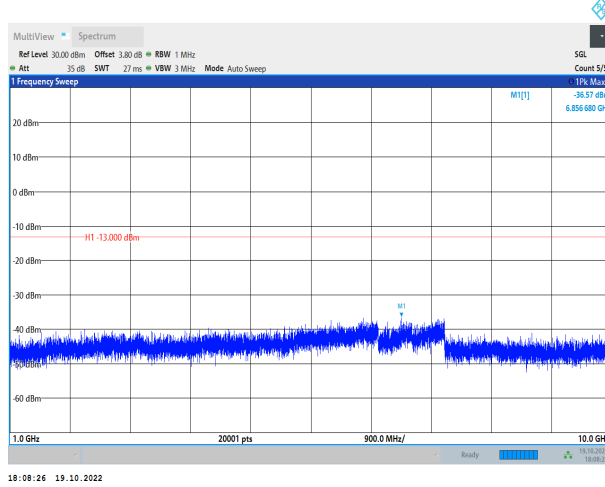
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

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]	Height [cm]	Angle [°]	Polarity
1	1579.6800	53.33	-48.29	25.38	-64.84	-40.00	24.84	125	268	Horizontal
2	2365.0200	52.05	-47.47	27.42	-63.25	-13.00	50.25	148	157	Horizontal
3	3153.3600	49.58	-46.50	29.60	-62.58	-13.00	49.58	159	348	Horizontal
4	3941.7000	49.25	-46.22	30.66	-61.56	-13.00	48.56	135	183	Horizontal
5	4730.0400	48.42	-45.75	32.11	-60.48	-13.00	47.48	126	26	Horizontal
6	5518.3800	48.49	-45.16	32.93	-59.00	-13.00	46.00	144	222	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1579.6800	52.79	-48.29	25.38	-65.38	-40.00	25.38	222	0	Vertical
2	2365.0200	51.00	-47.47	27.42	-64.30	-13.00	51.30	185	277	Vertical
3	3153.3600	49.83	-46.50	29.60	-62.33	-13.00	49.33	174	237	Vertical
4	3941.7000	49.09	-46.22	30.66	-61.72	-13.00	48.72	196	360	Vertical
5	4730.0400	47.85	-45.75	32.11	-61.05	-13.00	48.05	153	202	Vertical
6	5518.3800	47.04	-45.16	32.93	-60.45	-13.00	47.45	162	293	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]	Height [cm]	Angle [°]	Polarity
1	1581.6800	55.35	-48.29	25.37	-62.82	-40.00	22.82	211	320	Horizontal
2	2372.5200	50.88	-47.46	27.43	-64.42	-13.00	51.42	145	26	Horizontal
3	3163.3600	50.39	-46.46	29.62	-61.71	-13.00	48.71	153	118	Horizontal
4	3954.2000	49.74	-46.21	30.69	-61.04	-13.00	48.04	126	238	Horizontal
5	4745.0400	47.74	-45.73	32.15	-61.10	-13.00	48.10	135	251	Horizontal
6	5535.8800	47.14	-45.19	32.95	-60.36	-13.00	47.36	185	108	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	58.20	-48.29	25.37	-59.97	-40.00	19.97	129	3	Vertical
2	2372.5200	50.86	-47.46	27.43	-64.44	-13.00	51.44	248	124	Vertical
3	3163.3600	50.65	-46.46	29.62	-61.45	-13.00	48.45	144	353	Vertical
4	3954.2000	48.89	-46.21	30.69	-61.89	-13.00	48.89	156	127	Vertical
5	4745.0400	47.98	-45.73	32.15	-60.86	-13.00	47.86	156	5	Vertical
6	5535.8800	46.98	-45.19	32.95	-60.52	-13.00	47.52	173	305	Vertical



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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]	Height [cm]	Angle [°]	Polarity
1	1586.6800	55.46	-48.29	25.37	-62.72	-40.00	22.72	225	38	Horizontal
2	2380.0200	50.99	-47.46	27.43	-64.30	-13.00	51.30	147	190	Horizontal
3	3173.3600	50.72	-46.41	29.64	-61.31	-13.00	48.31	185	184	Horizontal
4	3966.7000	50.14	-46.21	30.72	-60.61	-13.00	47.61	165	311	Horizontal
5	4760.0400	47.71	-45.70	32.20	-61.05	-13.00	48.05	142	38	Horizontal
6	5553.3800	47.52	-45.21	32.97	-59.98	-13.00	46.98	138	151	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	60.32	-48.29	25.37	-57.86	-40.00	17.86	248	360	Vertical
2	2380.0200	50.92	-47.46	27.43	-64.37	-13.00	51.37	156	111	Vertical
3	3173.3600	49.99	-46.41	29.64	-62.04	-13.00	49.04	135	84	Vertical
4	3966.7000	48.99	-46.21	30.72	-61.76	-13.00	48.76	128	132	Vertical
5	4760.0400	48.68	-45.70	32.20	-60.08	-13.00	47.08	199	4	Vertical
6	5553.3800	47.84	-45.21	32.97	-59.66	-13.00	46.66	174	26	Vertical



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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]	Height [cm]	Angle [°]	Polarity
1	1577.1800	53.45	-48.29	25.38	-64.72	-40.00	24.72	211	322	Horizontal
2	2365.7700	51.30	-47.47	27.42	-64.00	-13.00	51.00	145	1	Horizontal
3	3154.3600	50.03	-46.50	29.61	-62.12	-13.00	49.12	163	117	Horizontal
4	3942.9500	48.80	-46.22	30.67	-62.01	-13.00	49.01	256	184	Horizontal
5	4731.5400	49.96	-45.75	32.11	-58.94	-13.00	45.94	148	0	Horizontal
6	5520.1300	47.33	-45.17	32.93	-60.16	-13.00	47.16	193	184	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	55.83	-48.29	25.38	-62.34	-40.00	22.34	244	3	Vertical
2	2365.7700	51.66	-47.47	27.42	-63.64	-13.00	50.64	153	360	Vertical
3	3154.3600	49.88	-46.50	29.61	-62.27	-13.00	49.27	126	230	Vertical
4	3942.9500	49.23	-46.22	30.67	-61.58	-13.00	48.58	185	197	Vertical
5	4731.5400	48.51	-45.75	32.11	-60.39	-13.00	47.39	142	230	Vertical
6	5520.1300	47.24	-45.17	32.93	-60.25	-13.00	47.25	139	0	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-0.40	-0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-1.60	-0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.80	-0.002270	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-1.80	-0.002270	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	0.00	0.000000	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-1.00	-0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.40	-0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-0.70	-0.000883	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-0.80	-0.001009	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.50	-0.001892	PASS

 $|\text{MAX}(\Delta f)| = 1.8\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL - MAX(Δf)	788.565441	≧ 788 MHz	PASS
fH + MAX(Δf)	797.454282	≦ 798 MHz	PASS

---End of Attachment---



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