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# 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	22.79	22.24	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	22.99	22.44	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.95	22.4	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.04	21.49	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.36	22.81	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	22.97	22.42	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	22.73	22.18	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	21.91	21.36	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.22	22.67	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	22.9	22.35	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.69	22.14	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	21.84	21.29	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.77	21.22	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.08	21.53	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.02	21.47	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.06	20.51	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.98	21.43	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.15	21.6	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.06	21.51	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	20.93	20.38	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.21	21.66	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.07	21.52	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	21.8	21.25	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.77	20.22	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	20.89	20.34	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.06	20.51	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.04	20.49	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	20	19.45	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.05	20.5	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.07	20.52	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	20.83	20.28	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	19.98	19.43	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.1	20.55	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.02	20.47	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	20.97	20.42	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	19.78	19.23	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	17.92	17.37	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	18.11	17.56	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	17.91	17.36	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	17.97	17.42	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	17.97	17.42	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	18.06	17.51	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	17.83	17.28	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	17.94	17.39	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.04	17.49	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	17.95	17.4	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	17.71	17.16	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	17.87	17.32	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	22.86	22.31	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	22.94	22.39	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.88	22.33	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	21.92	21.37	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	21.89	21.34	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.1	21.55	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.88	21.33	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.01	20.46	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	20.98	20.43	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.04	20.49	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	20.83	20.28	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	19.9	19.35	34.77	PASS



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Band14	10MHz	256QAM	23330	1RB#0	17.96	17.41	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#24	17.95	17.4	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	17.87	17.32	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	17.9	17.35	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	5.76	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.46	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.94	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	7.02	13	PASS



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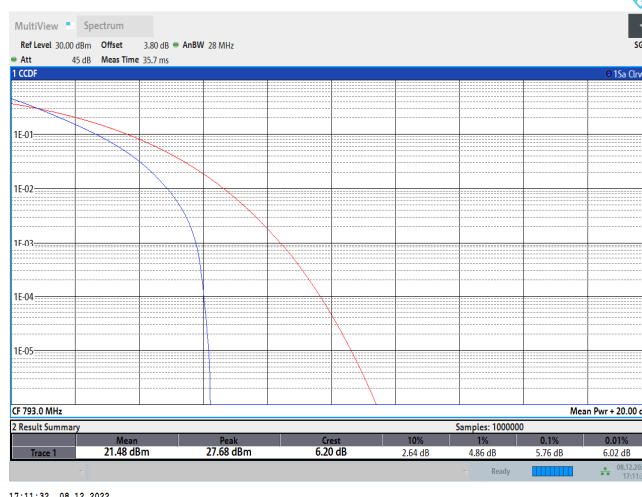
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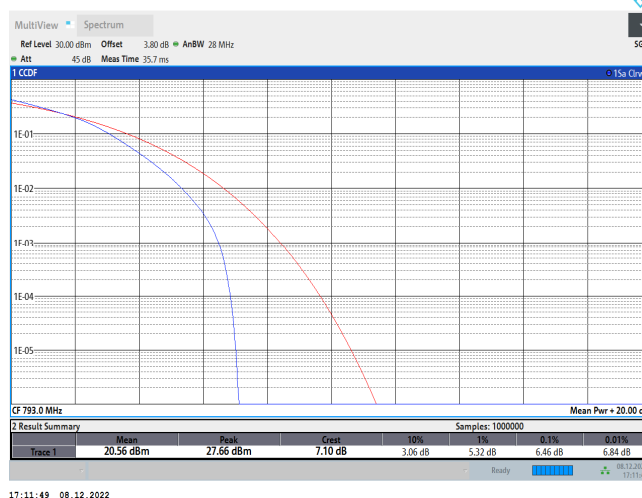
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## Test Graphs

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



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



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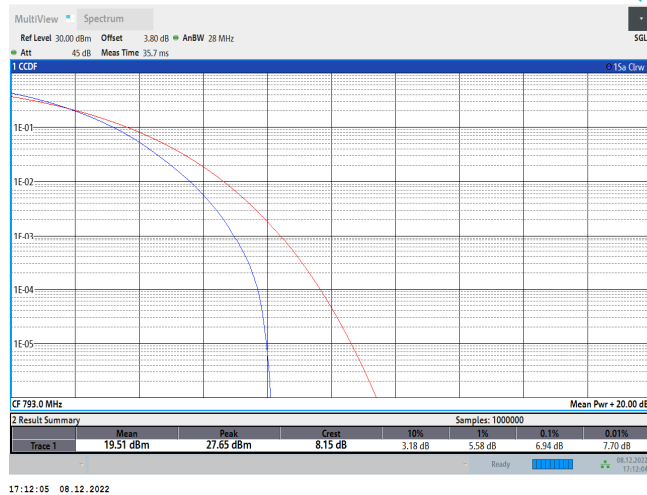


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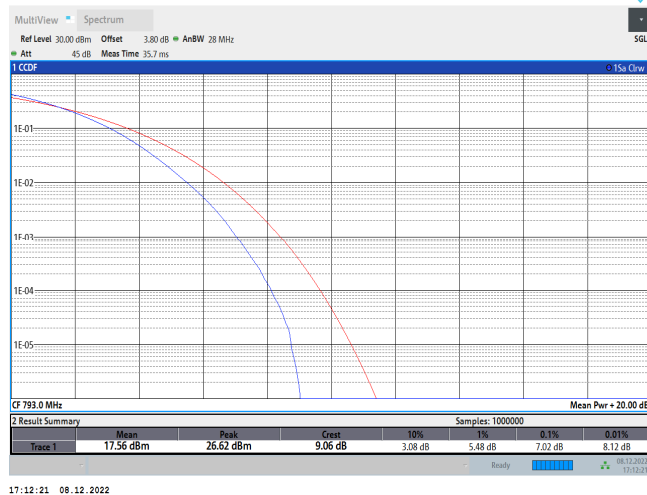
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### Band14-10MHz-64QAM-23330-50RB#0



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



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



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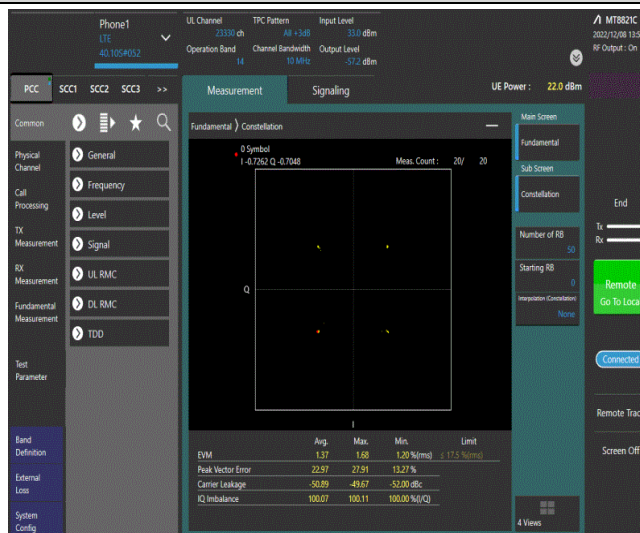
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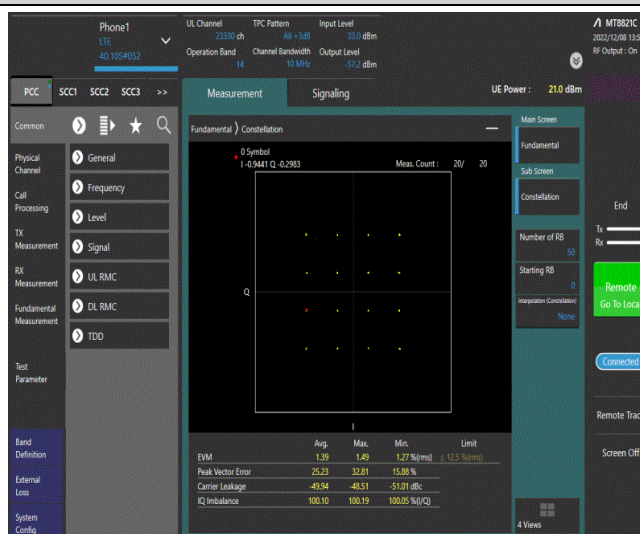
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## Test Graphs

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



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



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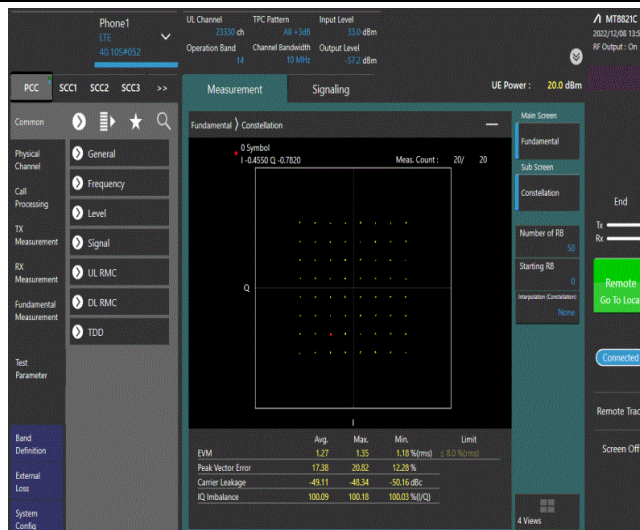
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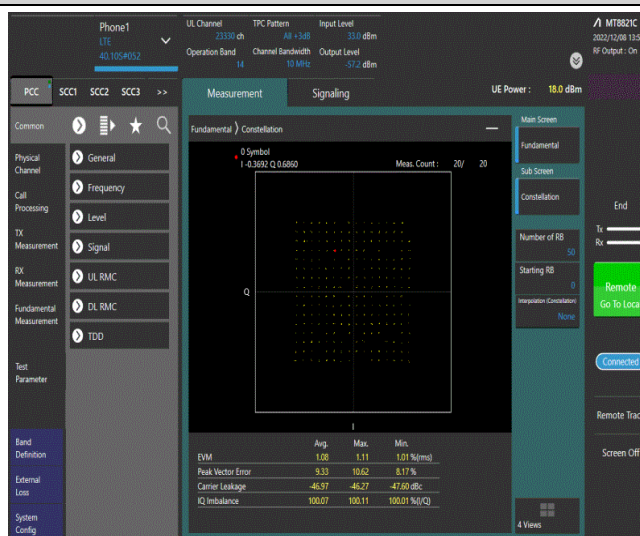
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### Band14-10MHz-256QAM-23330-50RB#0



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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	4.481	4.97	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.483	5.00	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.482	5.04	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.48	5.01	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.482	5.07	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.483	5.04	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.472	5.04	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.488	5.04	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.479	5.03	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.476	4.98	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.483	5.06	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.48	5.04	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.951	9.93	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.979	9.90	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.961	9.93	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.965	9.90	PASS



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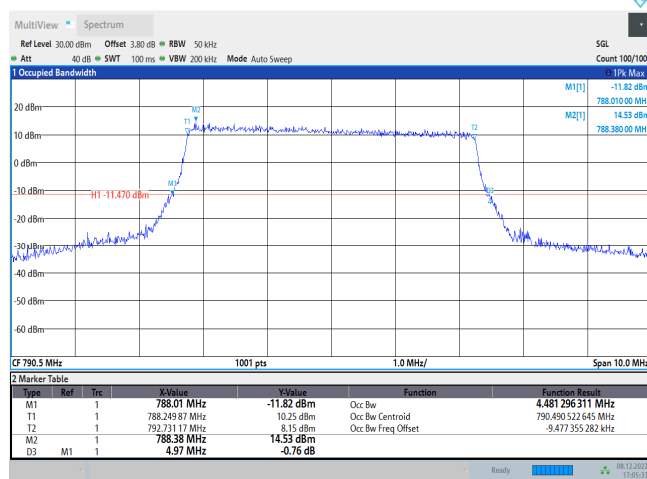
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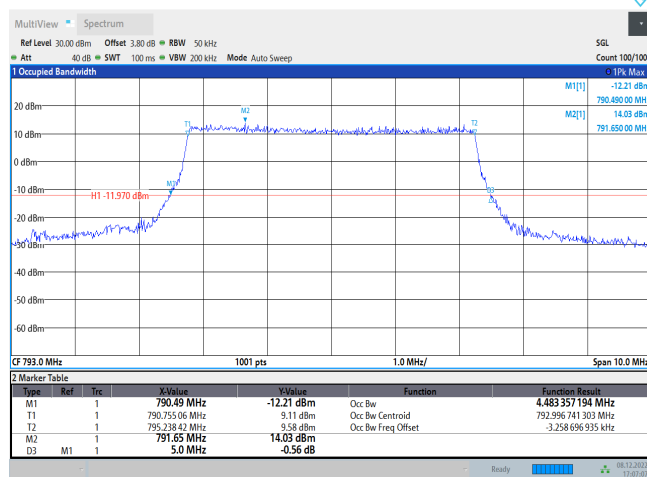
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### Test Graphs

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



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



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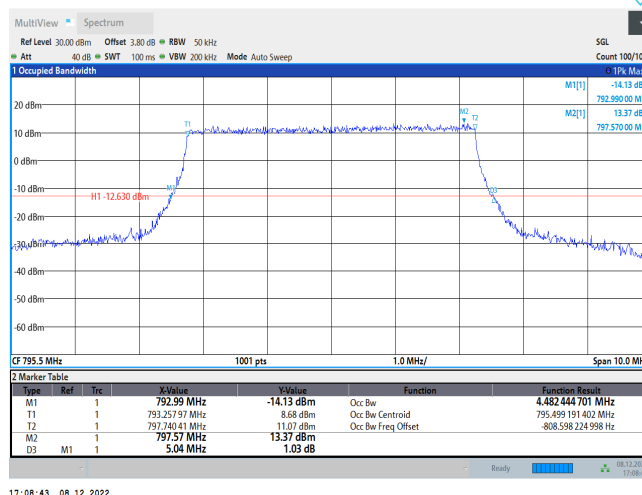
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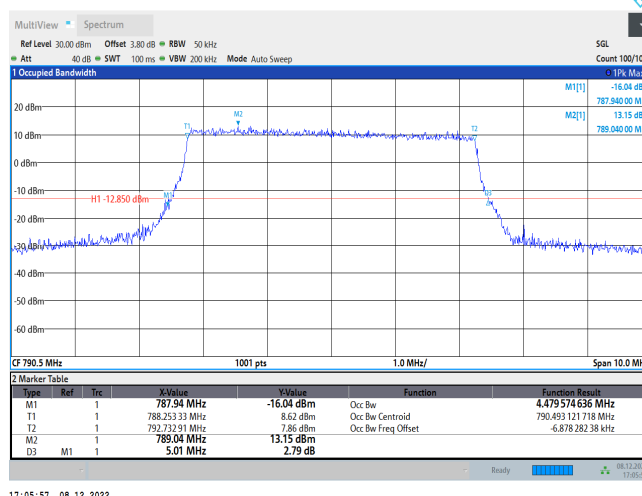
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### Band14-5MHz-QPSK-23355-25RB#0



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



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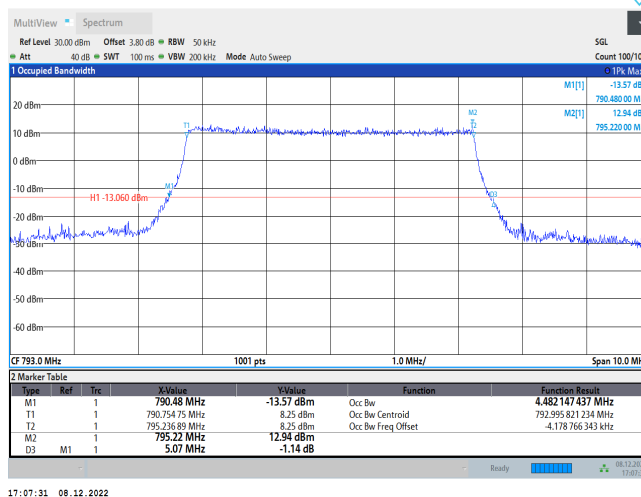


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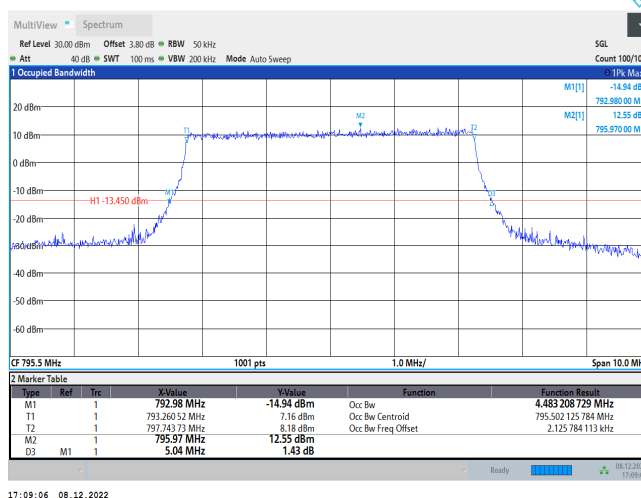
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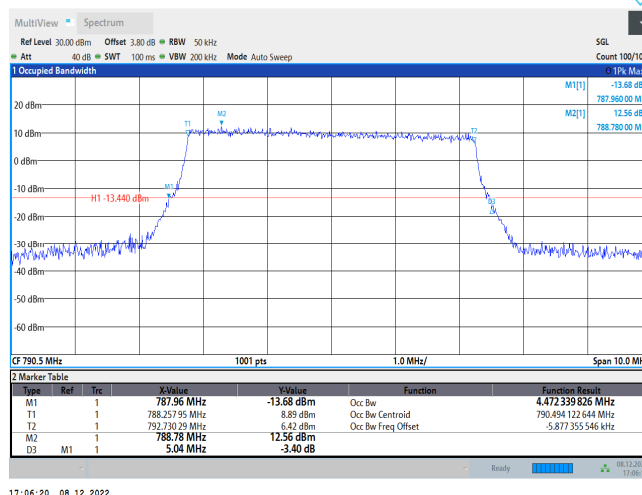


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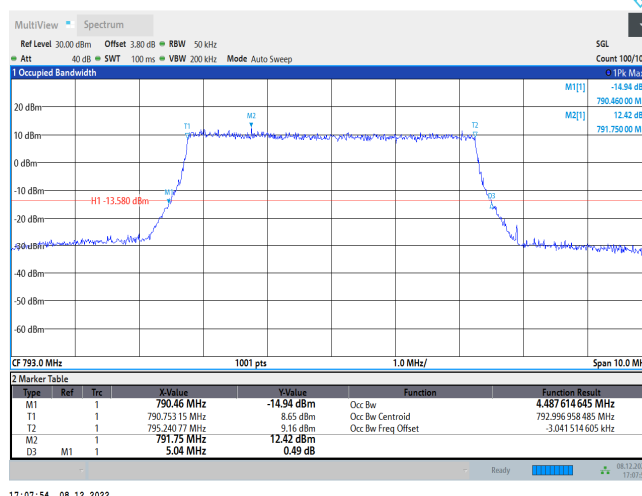
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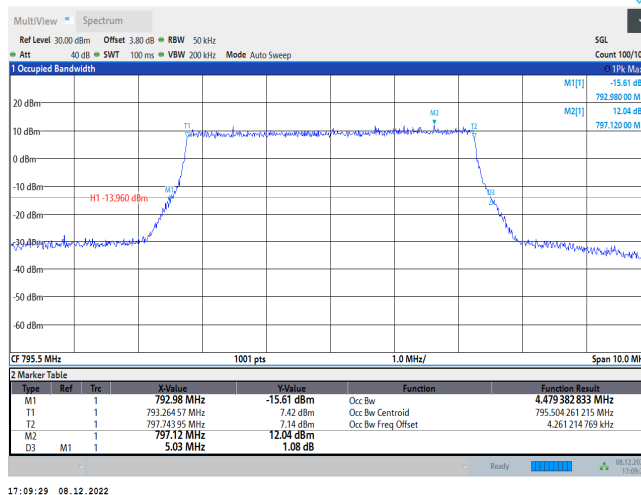
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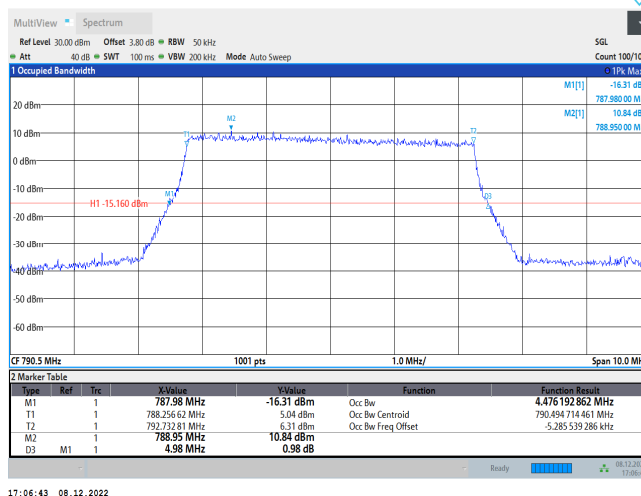
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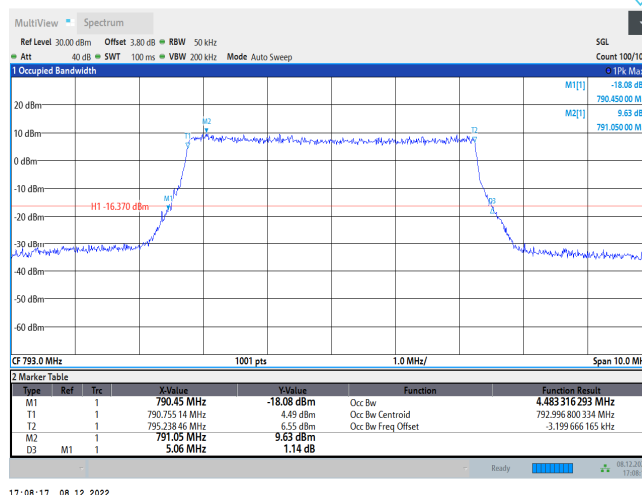
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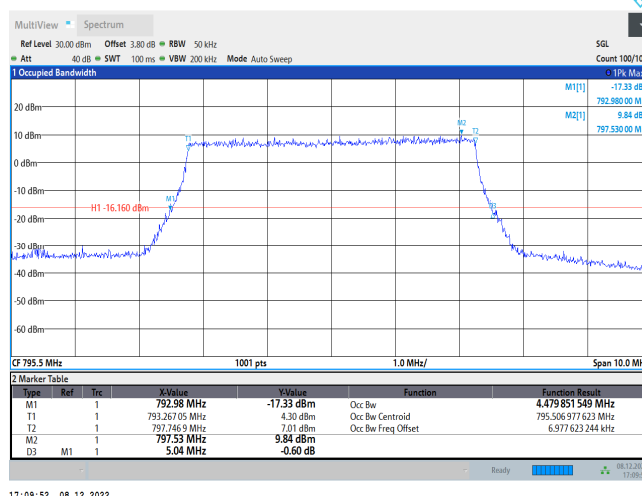
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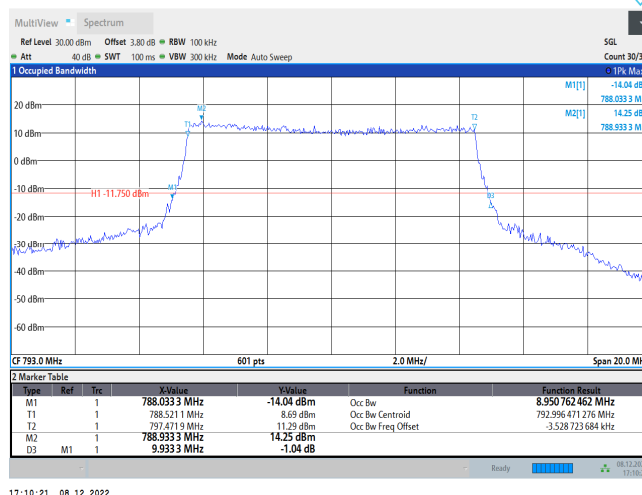
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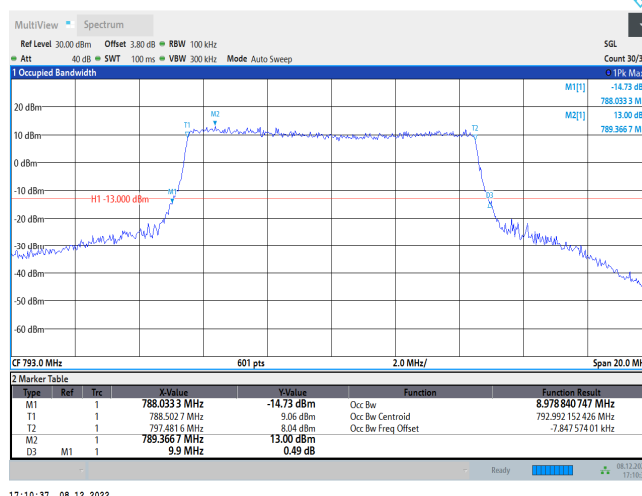
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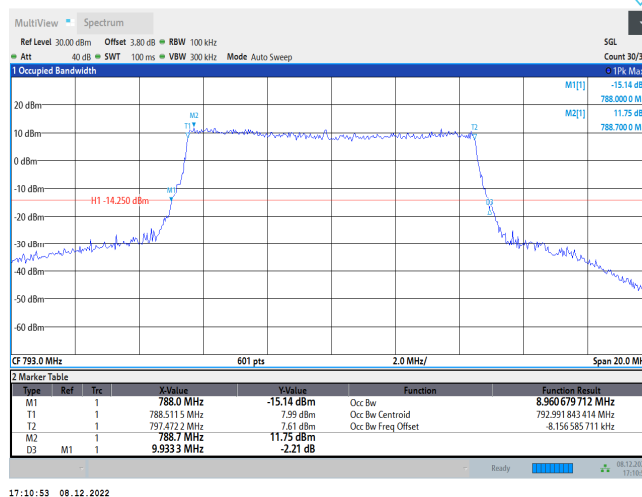
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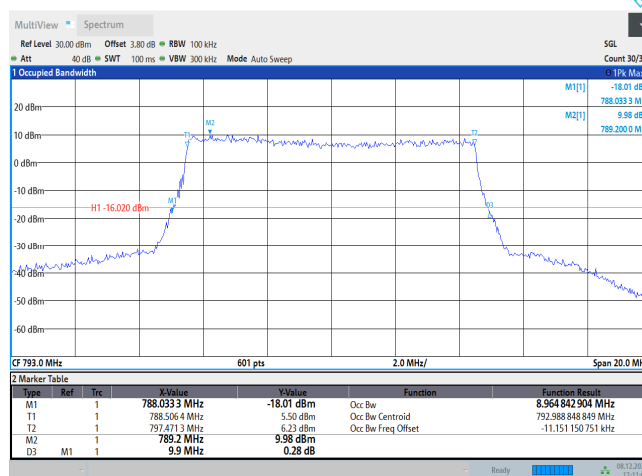
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### Band14-10MHz-64QAM-23330-50RB#0



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



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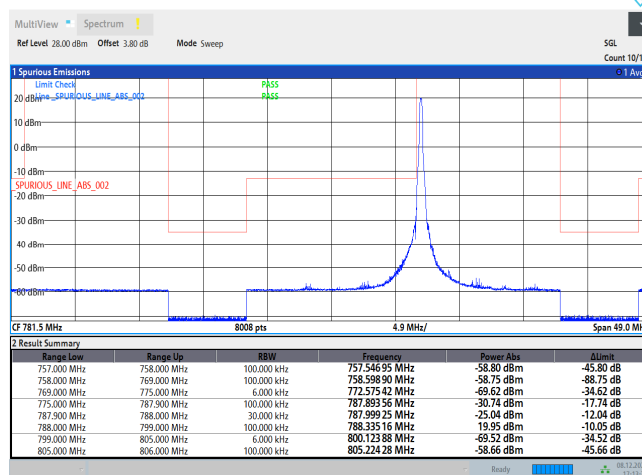
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### Band Edge

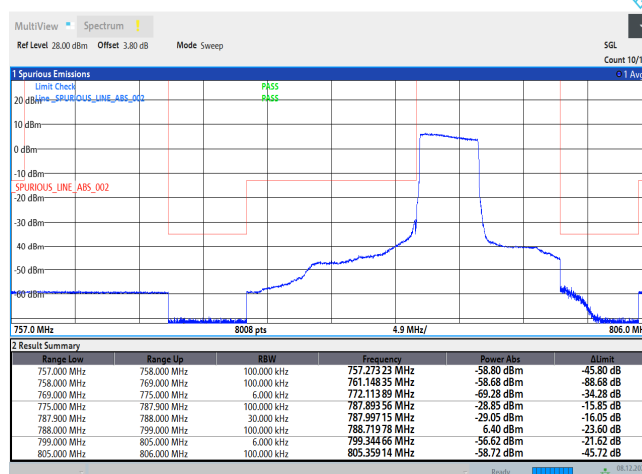
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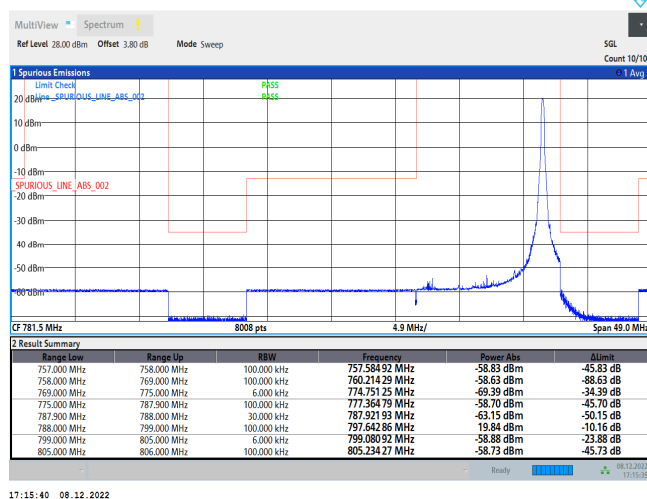


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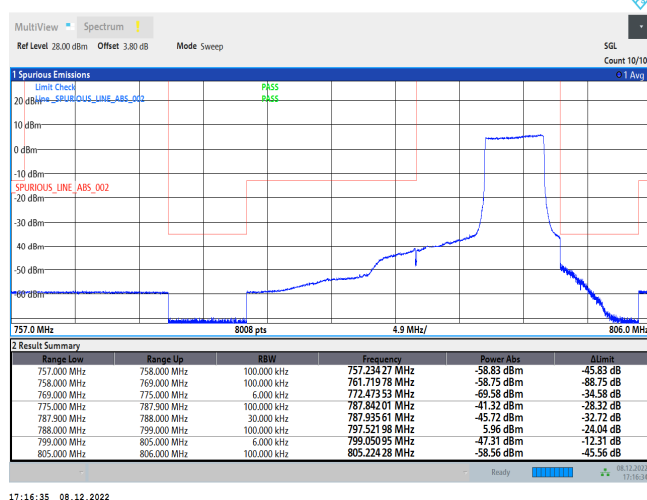
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### Band14-5MHz-QPSK-23355-1RB#24



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



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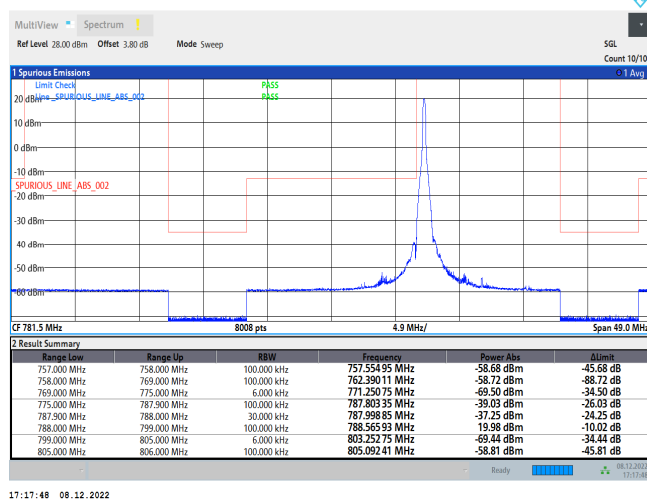
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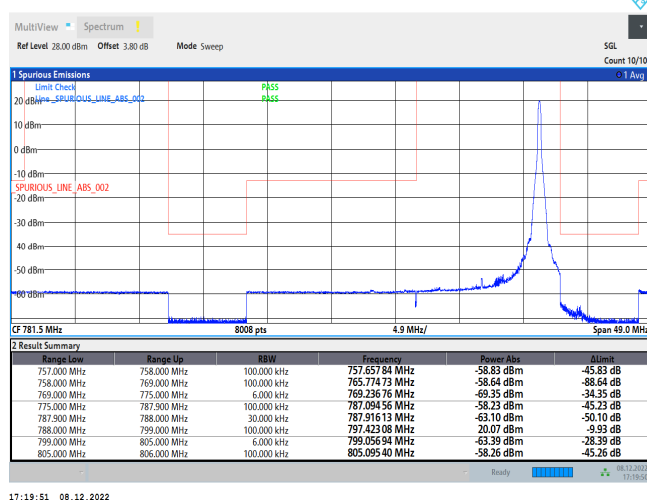
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### Band14-10MHz-QPSK-23330-1RB#0



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



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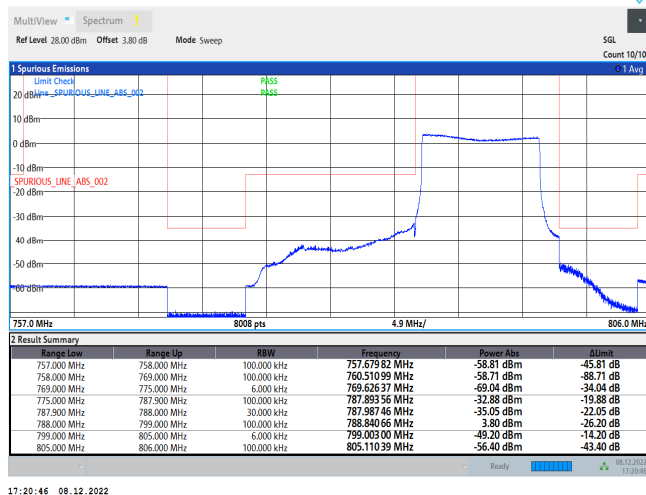
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### Band14-10MHz-QPSK-23330-50RB#0



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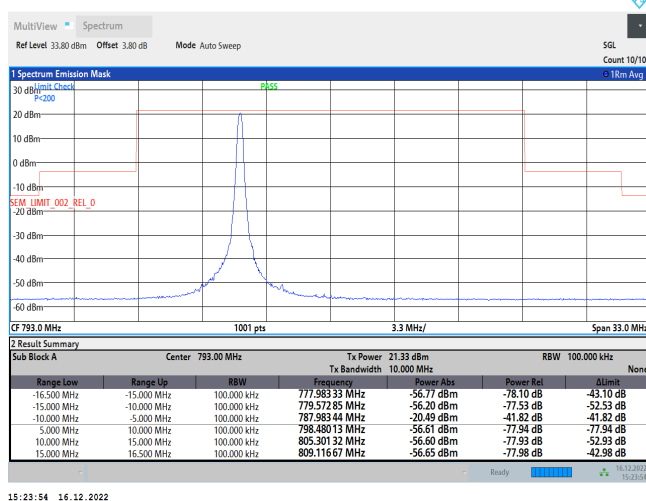
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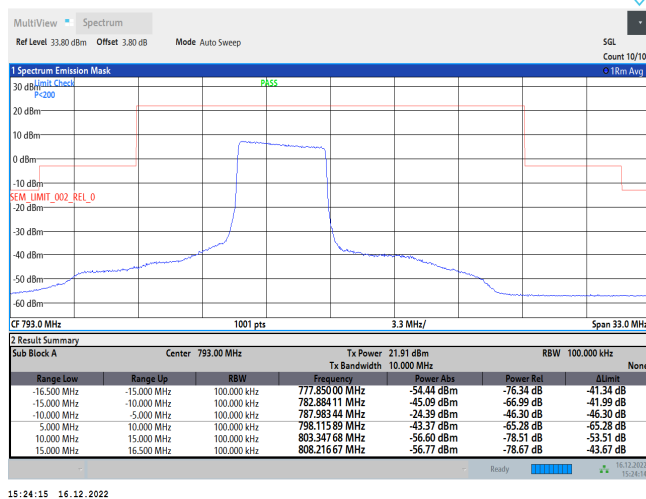
### Emission Mask

### Test Graphs

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



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



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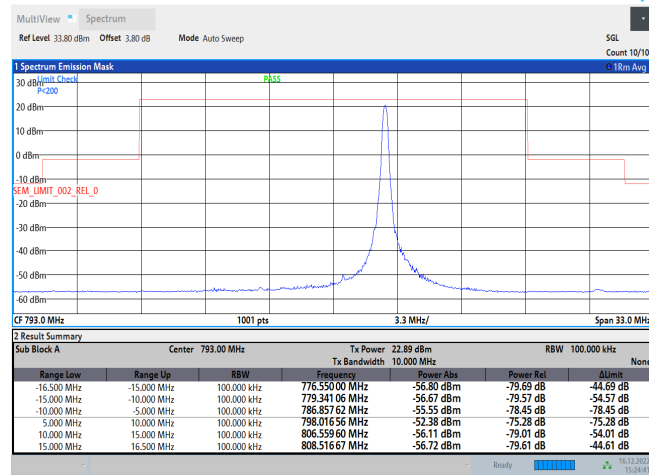
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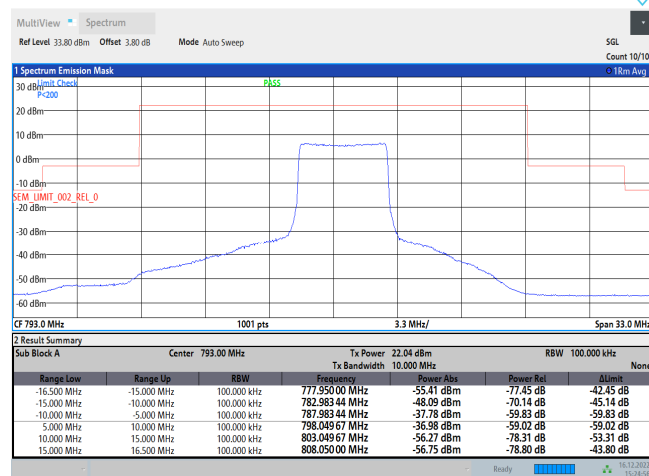
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### Band14-5MHz-QPSK-23355-1RB#24



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



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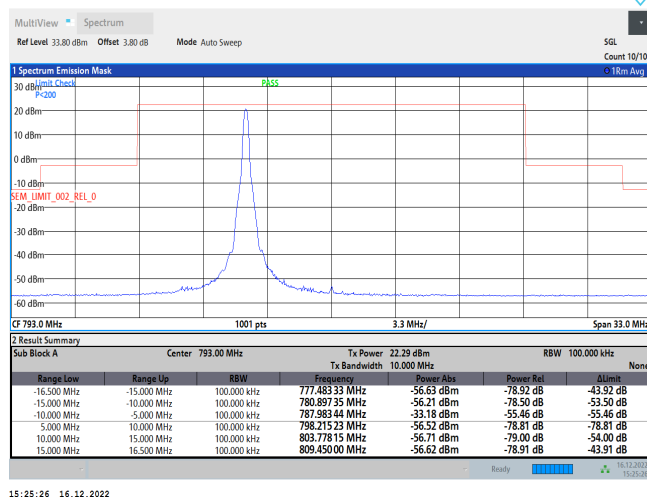
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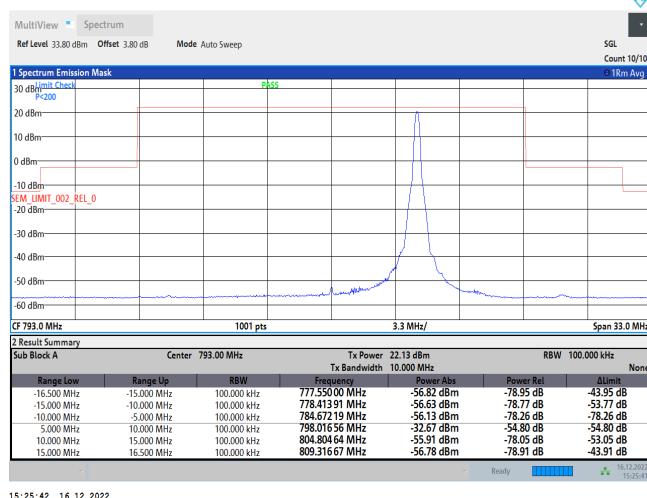
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### Band14-10MHz-QPSK-23330-1RB#0



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



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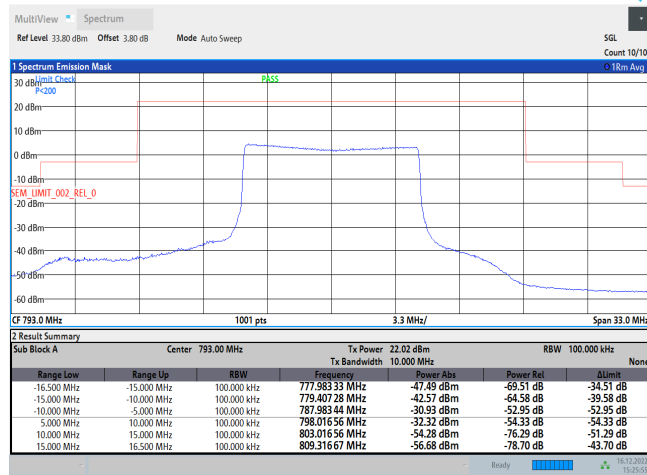


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### Band14-10MHz-QPSK-23330-50RB#0



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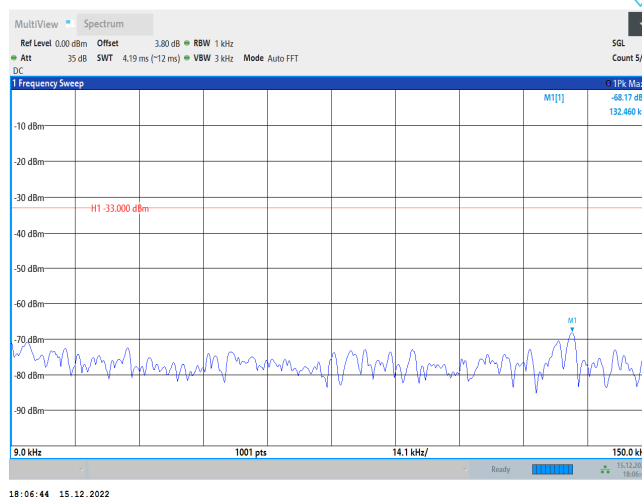
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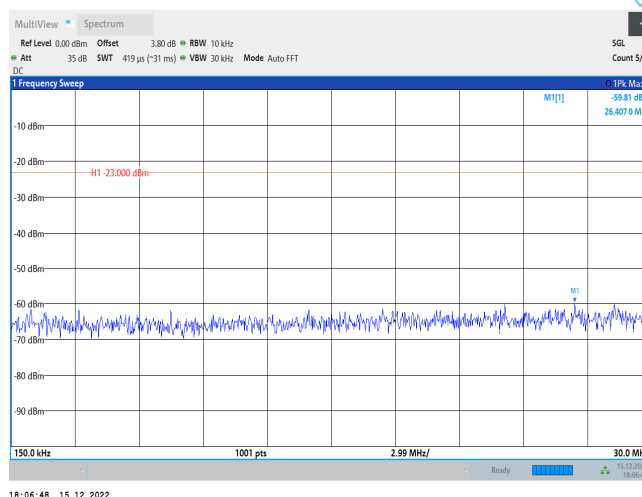
## Conducted Spurious Emission

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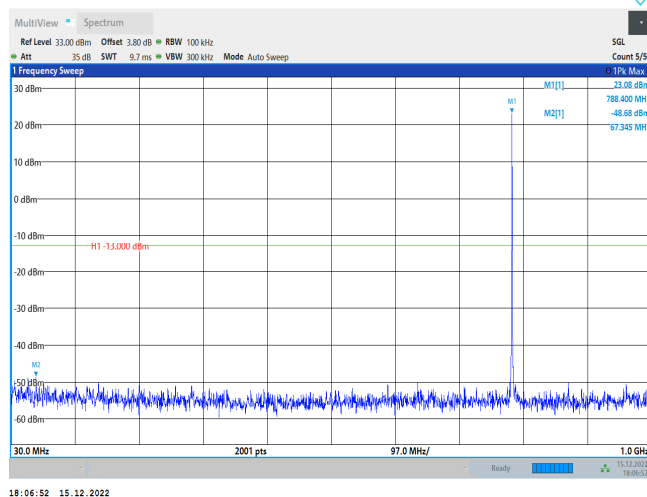
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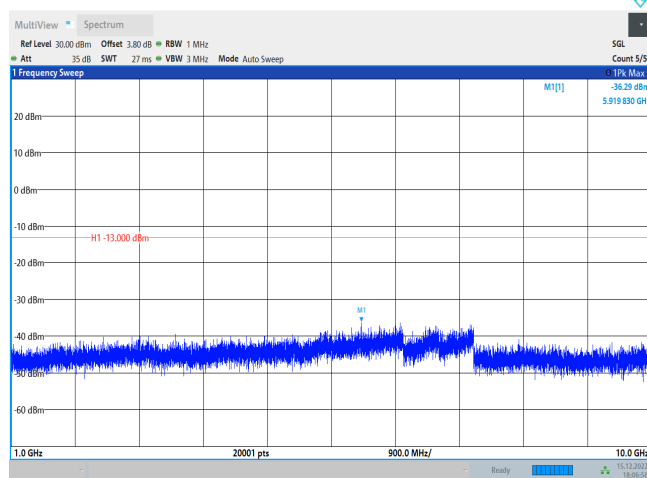
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### Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

**Test Band = LTE Band 14 BW 10M ANT 2\_ TM1**
**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	58.23	-48.51	25.58	-59.97	-40.00	19.97	152	92	Horizontal
2	2365.77	45.64	-47.60	27.63	-69.59	-13.00	56.59	285	107	Horizontal
3	3154.36	41.05	-46.39	29.54	-71.06	-13.00	58.06	322	1	Horizontal
4	3942.95	41.96	-45.52	30.46	-68.35	-13.00	55.35	214	1	Horizontal
5	4731.54	40.86	-44.57	31.96	-67.01	-13.00	54.01	185	357	Horizontal
6	5520.13	40.03	-43.76	32.67	-66.32	-13.00	53.32	169	76	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	1577.18	53.55	-48.51	25.58	-64.65	-40.00	24.65	185	242	Vertical
2	2365.77	47.54	-47.60	27.63	-67.69	-13.00	54.69	223	289	Vertical
3	3154.36	41.02	-46.39	29.54	-71.09	-13.00	58.09	247	3	Vertical
4	3942.95	41.37	-45.52	30.46	-68.94	-13.00	55.94	169	349	Vertical
5	4731.54	40.69	-44.57	31.96	-67.18	-13.00	54.18	228	258	Vertical
6	5520.13	40.47	-43.76	32.67	-65.88	-13.00	52.88	325	130	Vertical



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**Test Band = LTE Band 14 BW 5M\_ ANT 2\_ TM1**
**Test Channel = Low Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.7778	49.10	-48.51	25.58	-69.10	-40.00	29.10	158	104	Horizontal
2	2424.4444	56.20	-47.38	27.75	-58.69	-13.00	45.69	288	169	Horizontal
3	3153.36	41.46	-46.39	29.54	-70.66	-13.00	57.66	236	88	Horizontal
4	3941.7	42.20	-45.52	30.46	-68.12	-13.00	55.12	325	216	Horizontal
5	4730.04	40.76	-44.57	31.95	-67.12	-13.00	54.12	199	1	Horizontal
6	5518.38	39.97	-43.76	32.66	-66.39	-13.00	53.39	254	280	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	1578.2222	48.18	-48.51	25.58	-70.02	-40.00	30.02	215	191	Vertical
2	2365.02	43.06	-47.60	27.63	-72.17	-13.00	59.17	199	94	Vertical
3	3153.36	40.94	-46.39	29.54	-71.18	-13.00	58.18	253	360	Vertical
4	3941.7	41.96	-45.52	30.46	-68.36	-13.00	55.36	265	346	Vertical
5	4730.04	41.15	-44.57	31.95	-66.73	-13.00	53.73	302	208	Vertical
6	5518.38	40.20	-43.76	32.66	-66.16	-13.00	53.16	177	3	Vertical



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**Test Band = LTE Band 14 BW 5M ANT 2\_ TM1**
**Test Channel = Mid Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1583.1111	46.32	-48.51	25.58	-71.87	-40.00	31.87	288	89	Horizontal
2	2372.52	43.54	-47.60	27.65	-71.68	-13.00	58.68	241	25	Horizontal
3	3163.36	41.02	-46.37	29.53	-71.07	-13.00	58.07	186	25	Horizontal
4	3954.2	41.25	-45.51	30.49	-69.03	-13.00	56.03	302	41	Horizontal
5	4745.04	40.25	-44.58	31.99	-67.60	-13.00	54.60	178	1	Horizontal
6	5535.88	40.29	-43.74	32.72	-66.00	-13.00	53.00	256	0	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	1581.68	44.17	-48.51	25.58	-74.02	-40.00	34.02	247	314	Vertical
2	2372.52	42.83	-47.60	27.65	-72.39	-13.00	59.39	169	360	Vertical
3	3163.36	41.31	-46.37	29.53	-70.78	-13.00	57.78	251	3	Vertical
4	3954.2	41.02	-45.51	30.49	-69.26	-13.00	56.26	187	235	Vertical
5	4745.04	41.17	-44.58	31.99	-66.68	-13.00	53.68	233	266	Vertical
6	5535.88	40.23	-43.74	32.72	-66.06	-13.00	53.06	306	235	Vertical



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**Test Band = LTE Band 14 BW 5M ANT 2\_ TM1**
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6667	50.48	-48.52	25.59	-67.71	-40.00	27.71	288	268	Horizontal
2	2380	71.60	-47.60	27.66	-43.60	-13.00	30.60	177	334	Horizontal
3	3173.36	41.28	-46.34	29.53	-70.79	-13.00	57.79	256	126	Horizontal
4	3966.7	41.73	-45.51	30.52	-68.52	-13.00	55.52	216	95	Horizontal
5	4760.04	41.15	-44.59	32.03	-66.67	-13.00	53.67	306	359	Horizontal
6	5553.38	40.62	-43.73	32.77	-65.59	-13.00	52.59	196	360	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	1586.2222	46.75	-48.52	25.59	-71.44	-40.00	31.44	188	266	Vertical
2	2380	58.69	-47.60	27.66	-56.51	-13.00	43.51	254	248	Vertical
3	3173.36	41.91	-46.34	29.53	-70.16	-13.00	57.16	233	329	Vertical
4	3966.7	42.58	-45.51	30.52	-67.67	-13.00	54.67	177	357	Vertical
5	4760.04	41.10	-44.59	32.03	-66.72	-13.00	53.72	305	138	Vertical
6	5553.38	40.00	-43.73	32.77	-66.21	-13.00	53.21	245	25	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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## 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	3.50	0.004414	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-2.10	-0.002648	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.90	-0.002396	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-40	-6.00	-0.003191	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	1.90	0.002396	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	5.50	0.006936	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	0.40	0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	0.70	0.000883	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	4.90	0.006179	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	2.50	0.003153	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	8.30	0.010467	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	2.00	0.002522	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-4.90	-0.006179	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	3.00	0.001596	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	60	0.20	0.000106	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	75	0.70	0.000883	PASS

---End of Attachment---



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