

Report No.: SEWM2206000075RG01

Rev.: 01

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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	24.07	20.39	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.78	20.1	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.45	19.77	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.63	18.95	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.52	19.84	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.74	20.06	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.45	19.77	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.63	18.95	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.49	19.81	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.74	20.06	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.42	19.74	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.59	18.91	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.15	19.47	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.9	19.22	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.71	19.03	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.57	17.89	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.69	19.01	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.93	19.25	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.54	18.86	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.58	17.9	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.66	18.98	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.84	19.16	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.68	19	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.55	17.87	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	21.65	17.97	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.52	17.84	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.36	17.68	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	21.52	17.84	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	22.98	19.3	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	23.15	19.47	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.87	19.19	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	21.94	18.26	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.32	17.64	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	23.18	19.5	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	22.85	19.17	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	21.89	18.21	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.09	20.41	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.69	20.01	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.55	19.87	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.71	19.03	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.86	19.18	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.85	19.17	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.7	19.02	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.63	17.95	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	21.63	17.95	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	21.52	17.84	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.32	17.64	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.52	16.84	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	4.84	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.82	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	5.64	13	PASS



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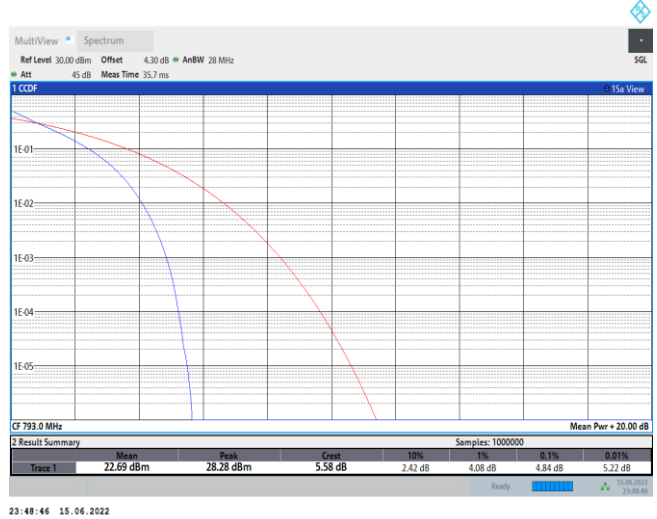
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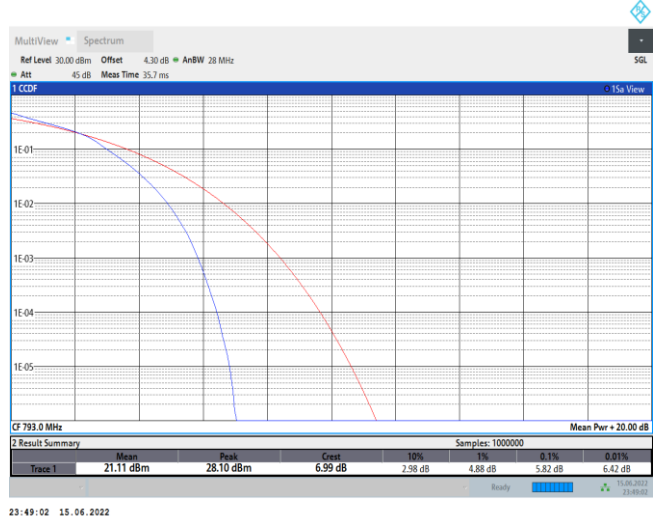
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Test Graphs

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



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

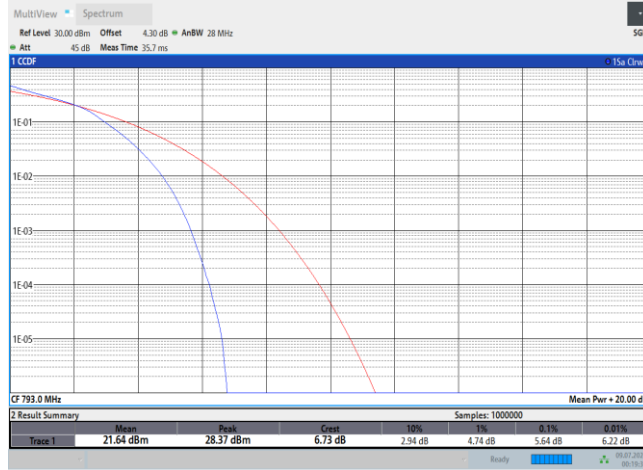


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Band14-10MHz-64QAM-23330-50RB#0



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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
Band30	10MHz	64QAM	27710	50RB#0	PASS	PASS



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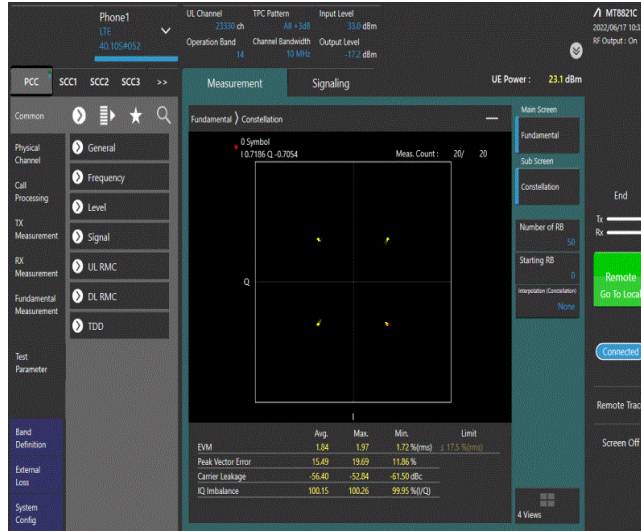
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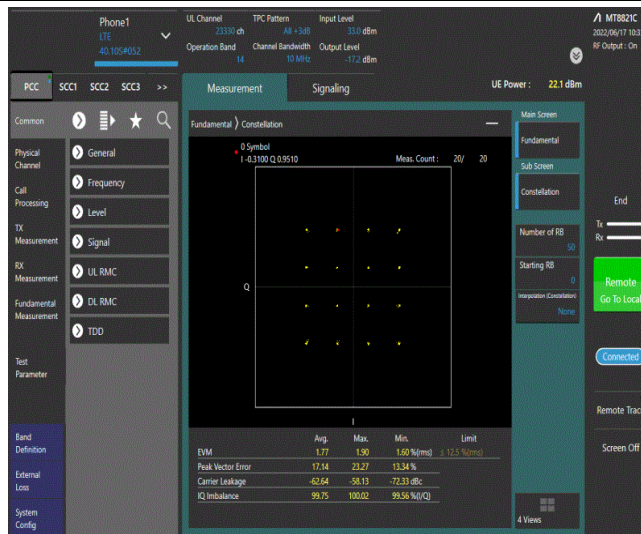
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Test Graphs

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



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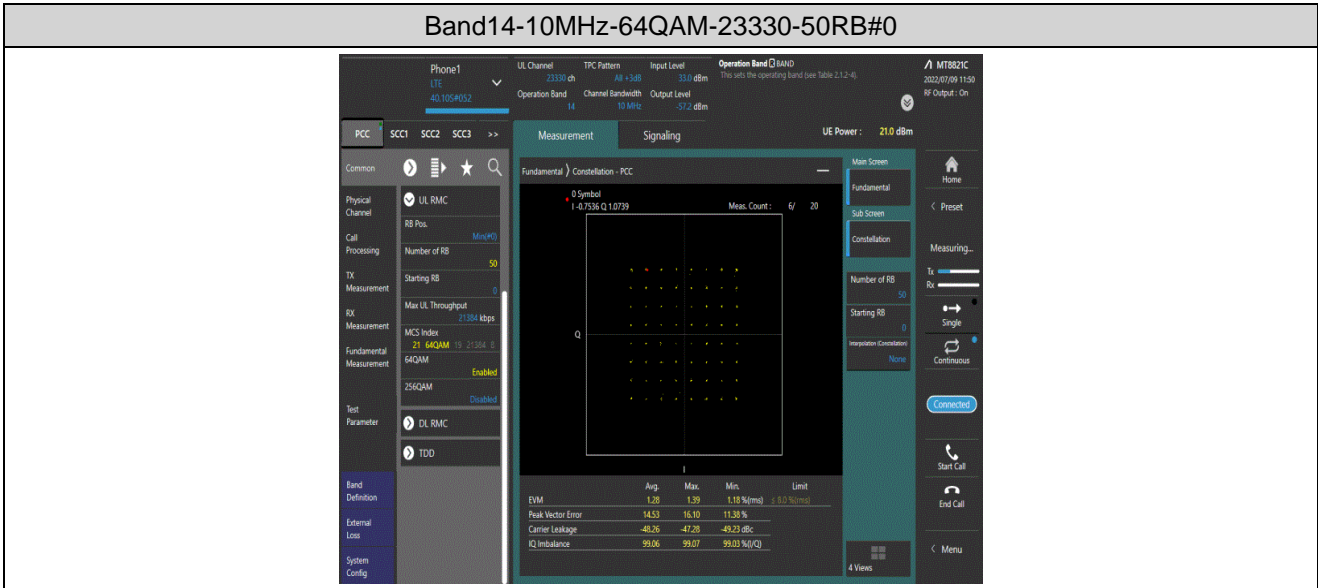
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.475	5.03	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.475	5.02	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.474	5.01	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.472	5.04	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.473	5.06	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.469	5.03	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.479	5.00	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.453	4.65	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.475	4.99	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.958	9.83	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.928	9.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.946	9.87	PASS



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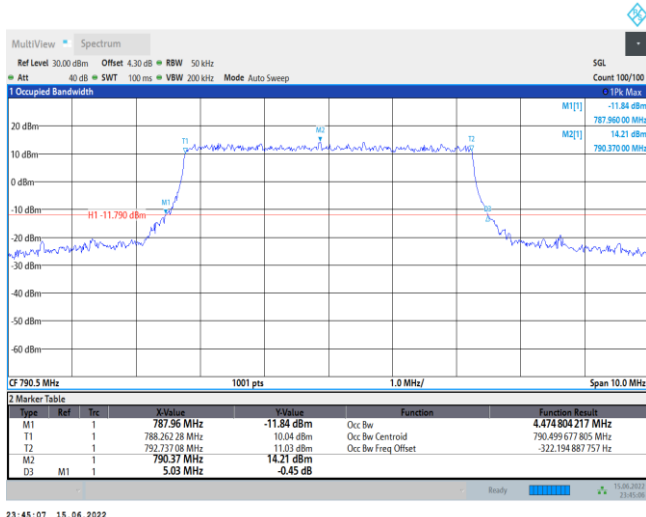
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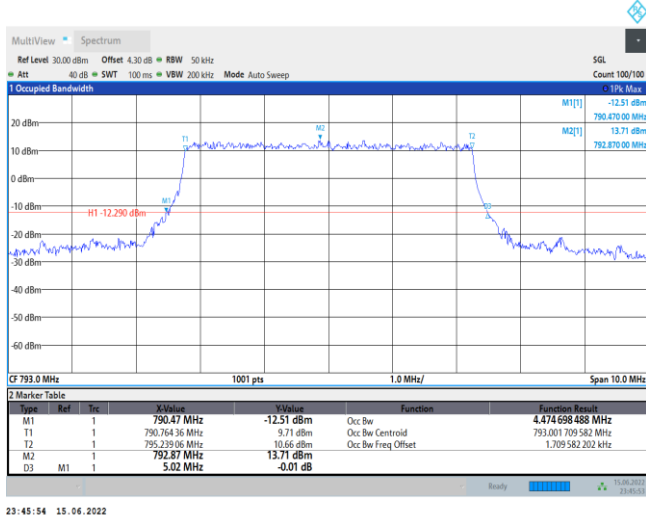
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Band14-5MHz-QPSK-23330-25RB#0

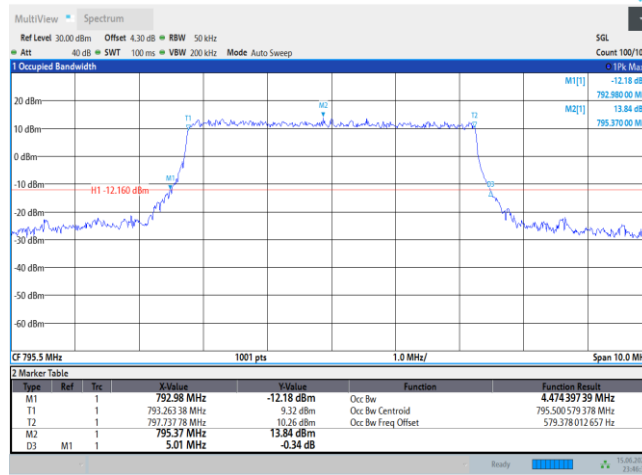


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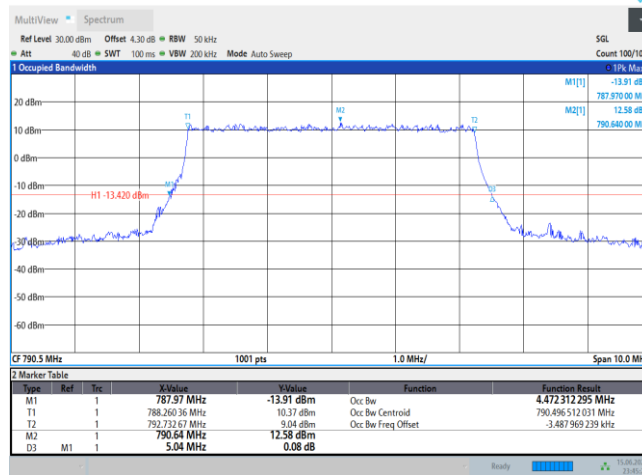
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Band14-5MHz-QPSK-23355-25RB#0



23:46:40 15.06.2022

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

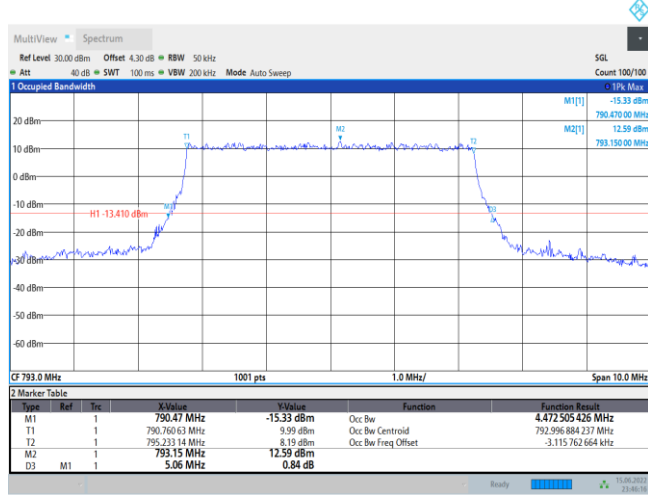


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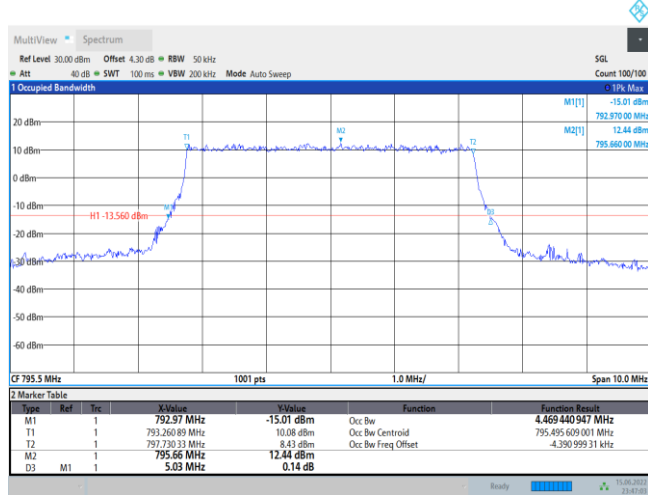
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Band14-5MHz-16QAM-23330-25RB#0



23:46:17 15.06.2022

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



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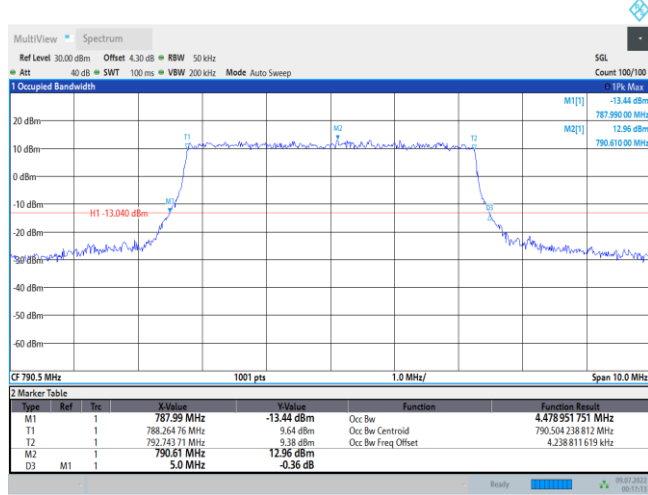


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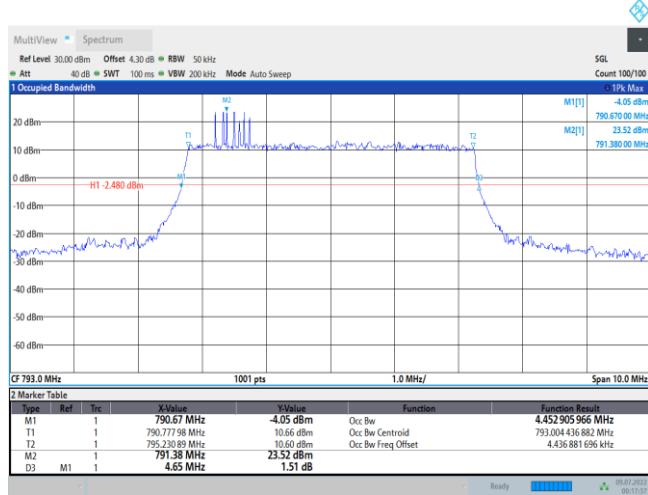
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Band14-5MHz-64QAM-23305-25RB#0



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



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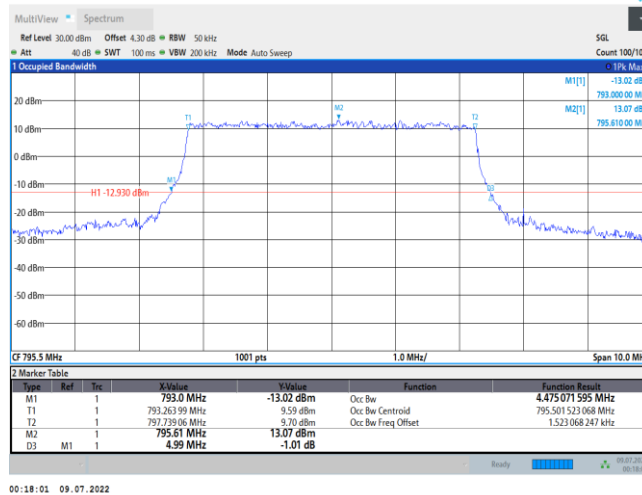


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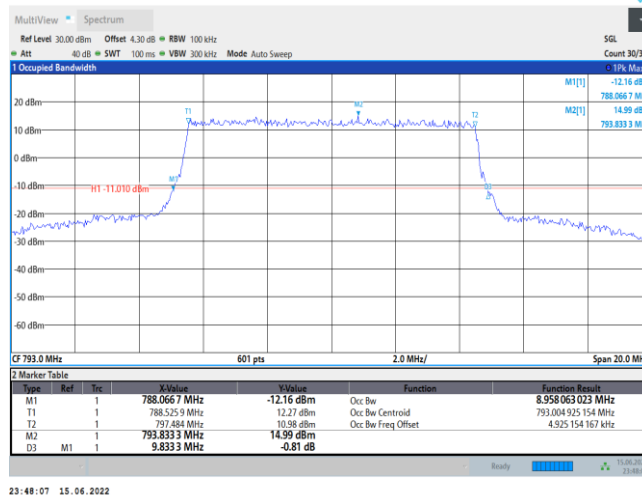
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Band14-5MHz-64QAM-23355-25RB#0



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



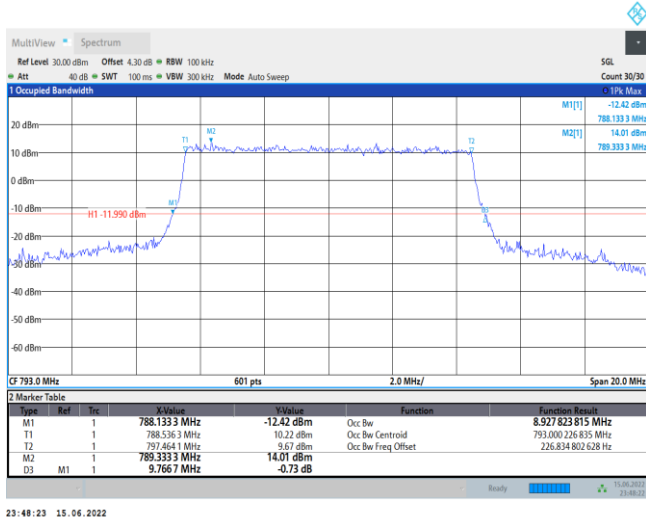
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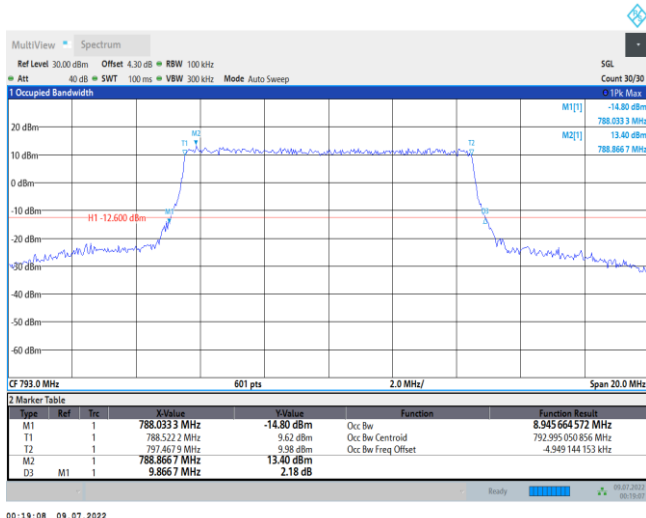
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Band14-10MHz-16QAM-23330-50RB#0



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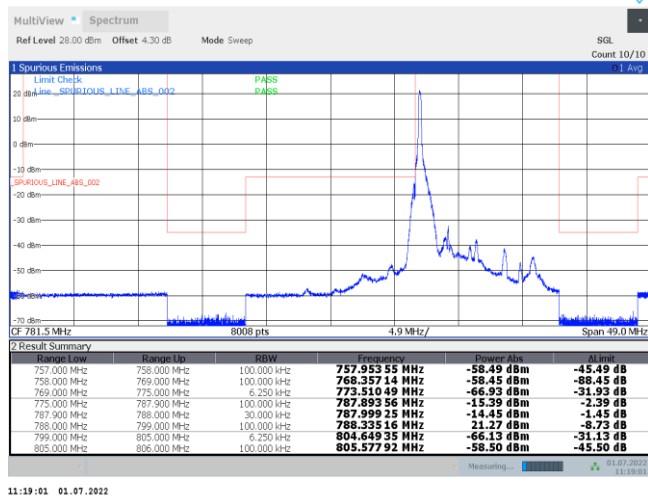
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## Band Edge

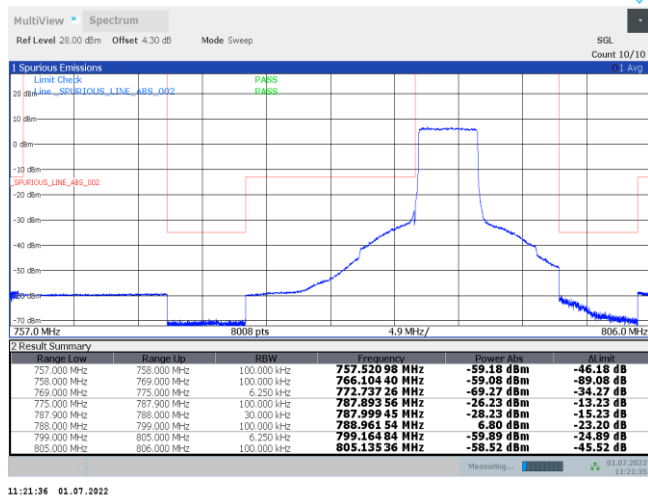
## Test Graphs

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



11:21:36 01.07.2022

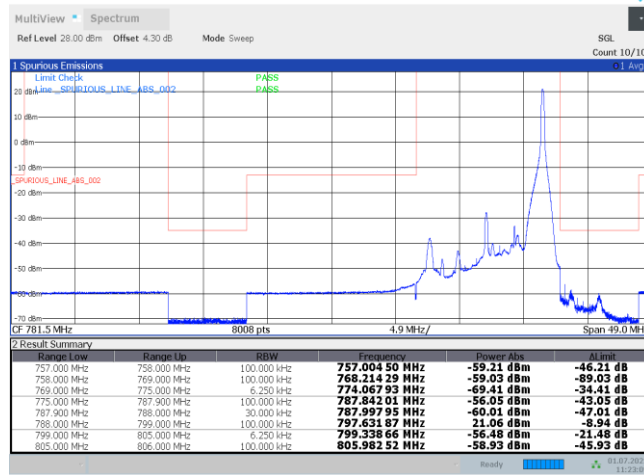


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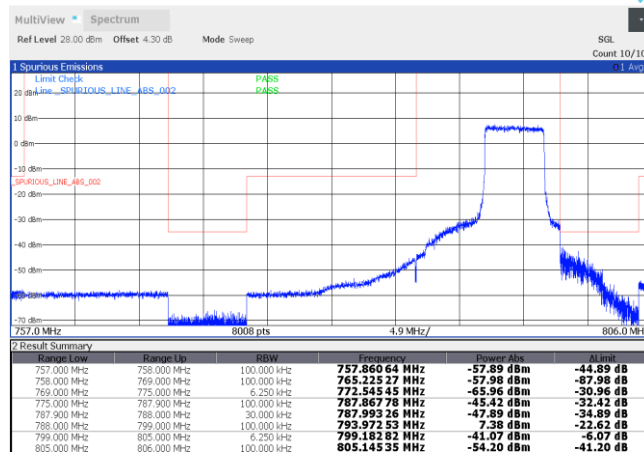
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Band14-5MHz-QPSK-23355-1RB#24



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



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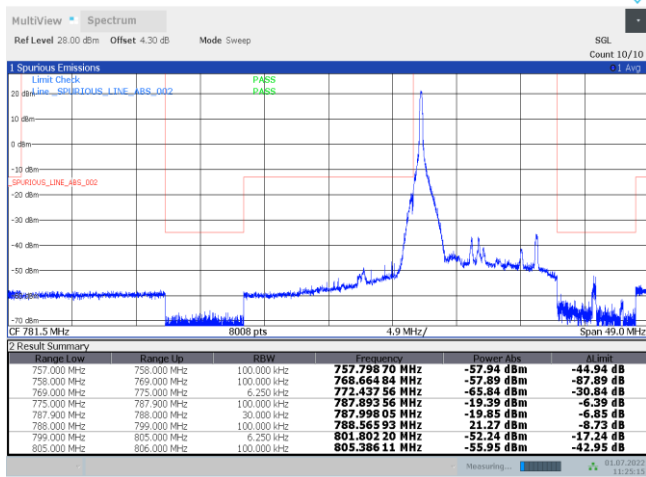


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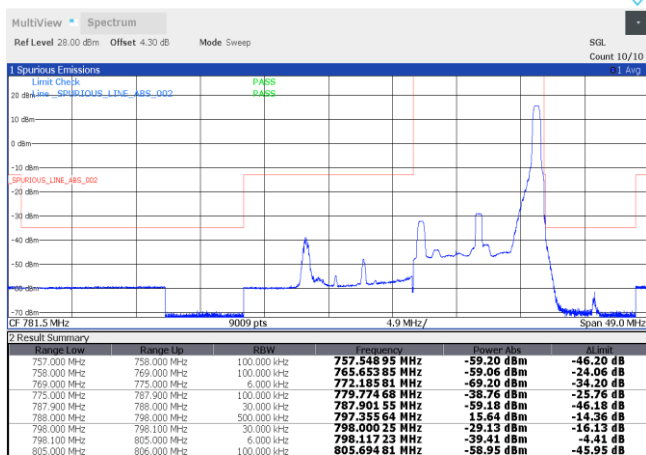
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Band14-10MHz-QPSK-23330-1RB#0



11:25:15 01.07.2022

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

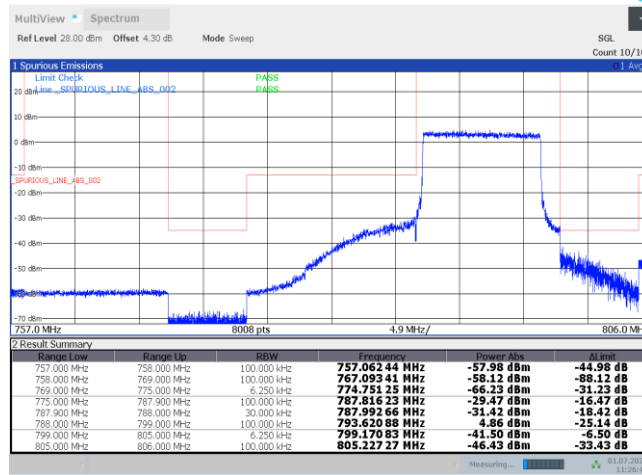


14:45:51 30.06.2022



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11:26:43 01.07.2022



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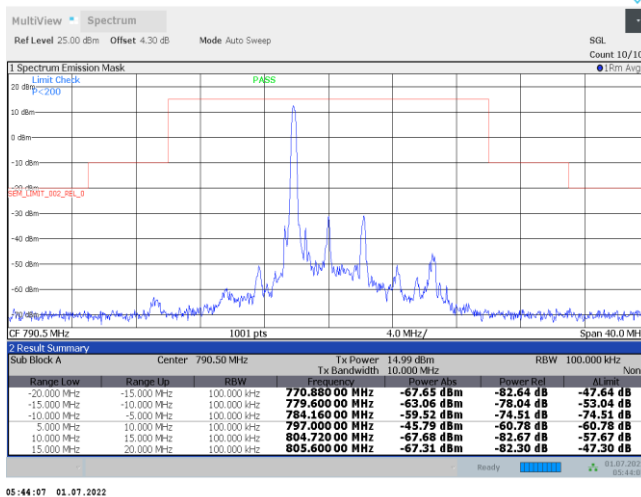
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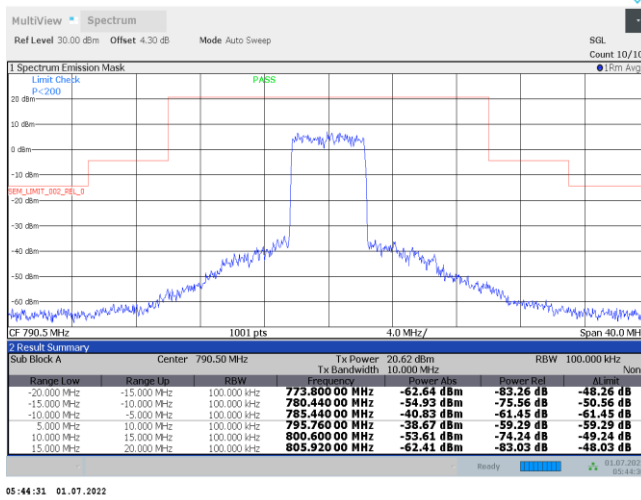
## Emission Mask

## Test Graphs

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



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

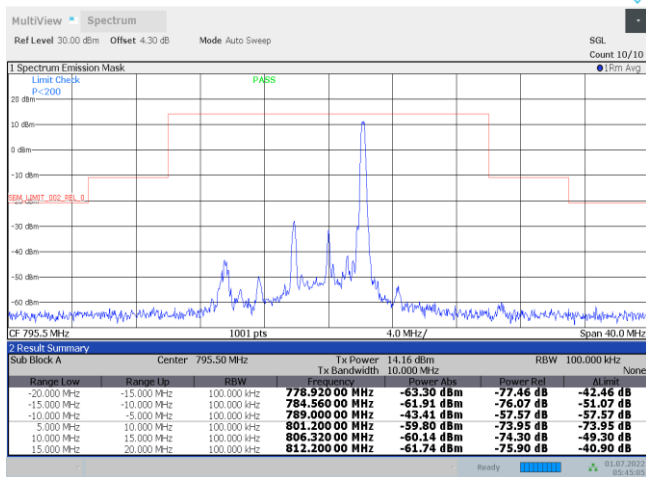


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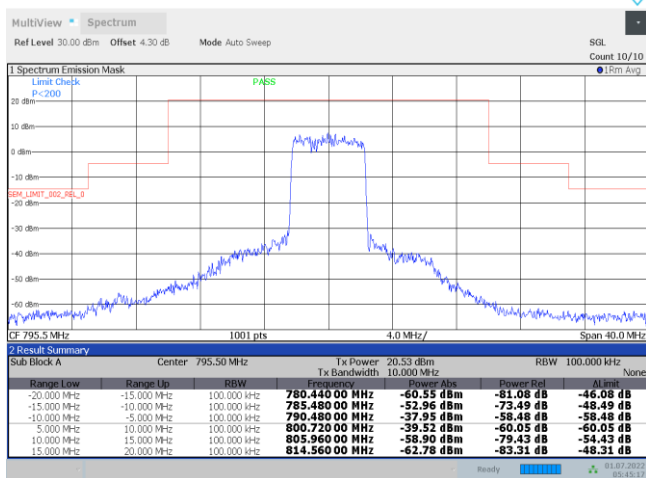
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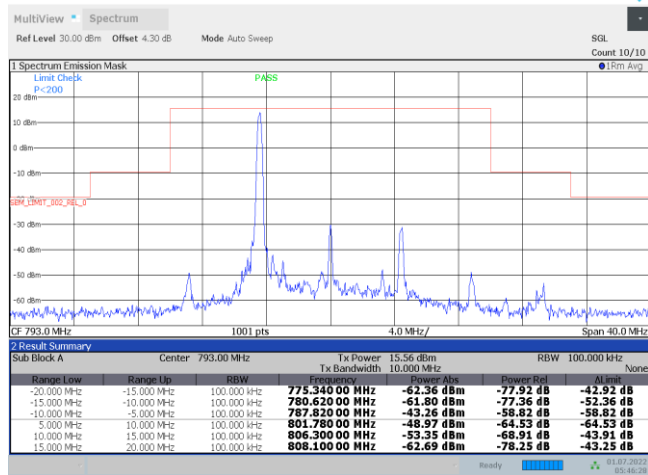


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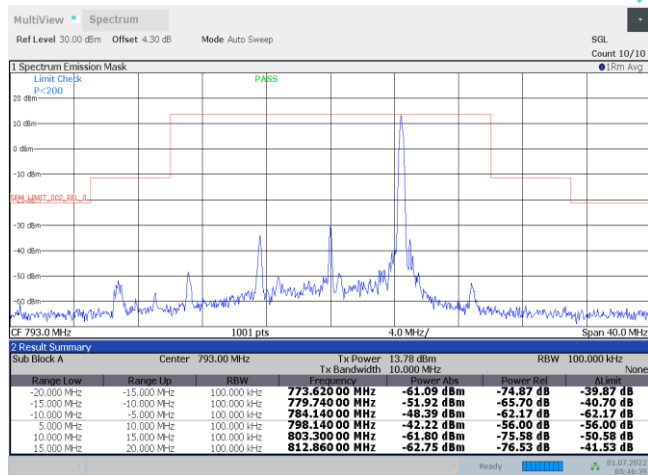
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Band14-10MHz-QPSK-23330-1RB#0



05:46:29 01.07.2022

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

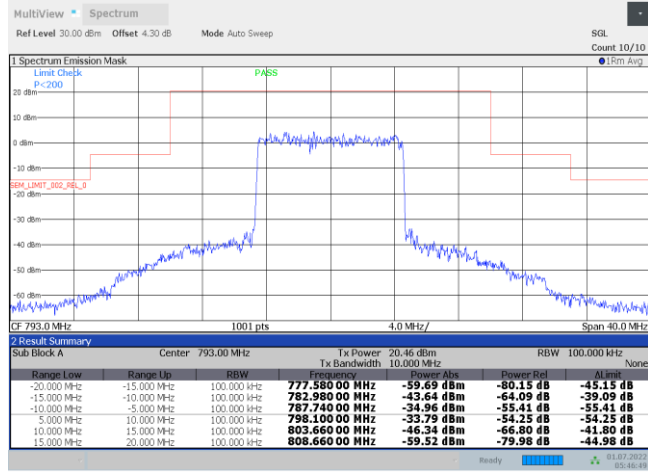


05:46:39 01.07.2022



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



05:46:50 01.07.2022



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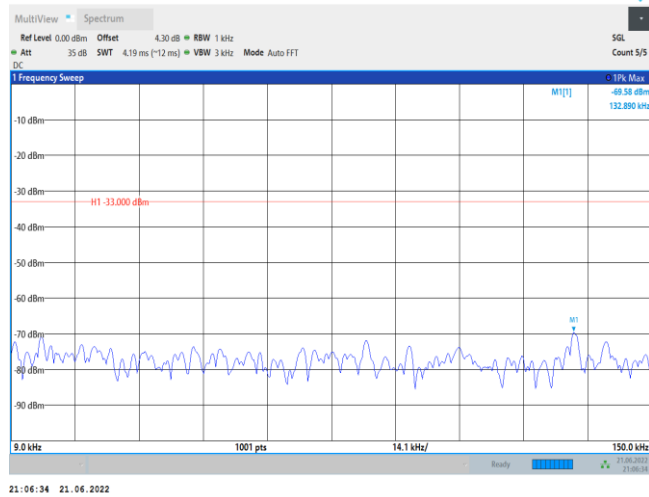
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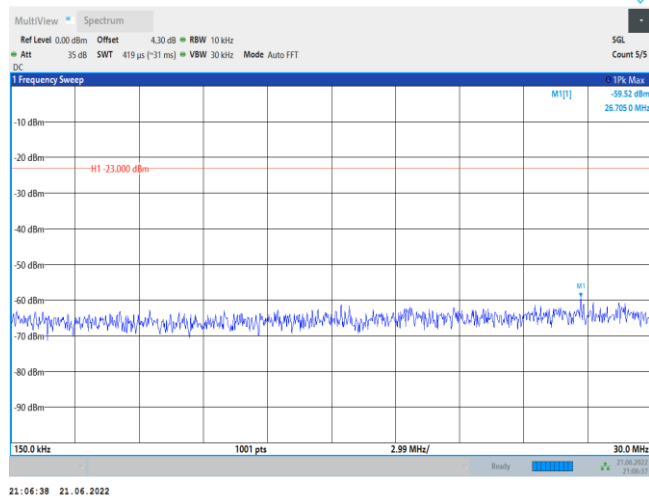
## Conducted Spurious Emission

### Test Graphs

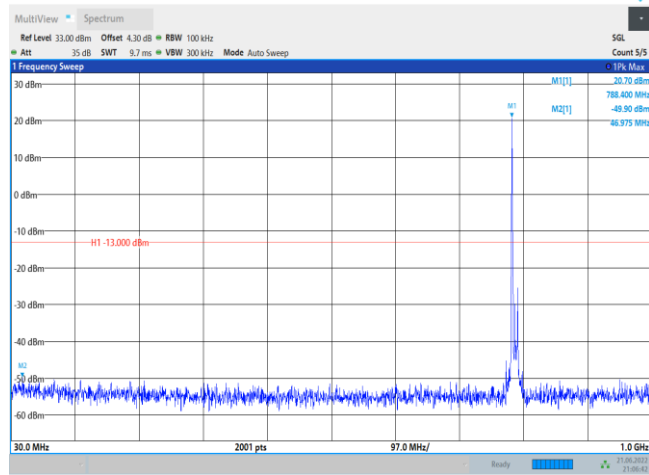
Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



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

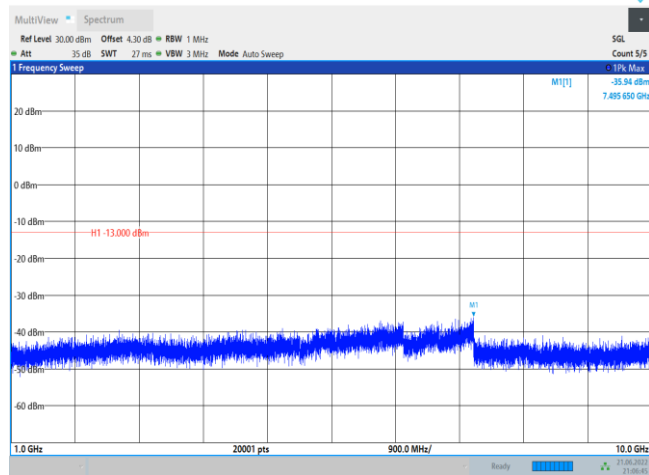


Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



21:06:42 21.06.2022

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



21:06:46 21.06.2022



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Wireless Laboratory

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## Field Strength of Spurious Radiation

Test Band = LTE Band 14\_10M\_TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	62.34	-118.17	-55.83	-40.00	15.83	218	52	Horizontal
2	2365.7700	65.85	-115.30	-49.45	-13.00	36.45	175	113	Horizontal
3	3154.3600	50.71	-112.15	-61.44	-13.00	48.44	236	235	Horizontal
4	3942.9500	50.80	-110.81	-60.01	-13.00	47.01	291	173	Horizontal
5	4731.5400	50.78	-108.90	-58.12	-13.00	45.12	211	245	Horizontal
6	5520.1300	48.22	-107.49	-59.27	-13.00	46.27	140	52	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	58.80	-118.17	-59.37	-40.00	19.37	255	218	Vertical
2	2365.7700	58.86	-115.30	-56.44	-13.00	43.44	236	277	Vertical
3	3154.3600	50.85	-112.15	-61.30	-13.00	48.30	164	187	Vertical
4	3942.9500	50.06	-110.81	-60.75	-13.00	47.75	194	9	Vertical
5	4731.5400	51.67	-108.90	-57.23	-13.00	44.23	170	0	Vertical
6	5520.1300	48.54	-107.49	-58.95	-13.00	45.95	211	308	Vertical



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**Test Band = LTE Band 14\_5M\_TM1**

**Test Channel = Low**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5714	62.82	-118.17	-55.35	-40.00	15.35	210	63	Horizontal
2	2365.0200	68.76	-115.30	-46.54	-13.00	33.54	203	246	Horizontal
3	3153.3600	49.59	-112.16	-62.57	-13.00	49.57	236	351	Horizontal
4	3941.7000	50.03	-110.81	-60.78	-13.00	47.78	261	164	Horizontal
5	4730.0400	51.02	-108.90	-57.88	-13.00	44.88	194	195	Horizontal
6	5518.3800	47.99	-107.49	-59.50	-13.00	46.50	175	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5714	60.18	-118.17	-57.99	-40.00	17.99	148	328	Vertical
2	2365.0200	61.03	-115.30	-54.27	-13.00	41.27	195	216	Vertical
3	3153.3600	49.77	-112.16	-62.39	-13.00	49.39	176	298	Vertical
4	3941.7000	50.71	-110.81	-60.10	-13.00	47.10	236	74	Vertical
5	4730.0400	49.70	-108.90	-59.20	-13.00	46.20	251	34	Vertical
6	5518.3800	49.27	-107.49	-58.22	-13.00	45.22	299	125	Vertical



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**Test Band = LTE Band 14\_5M\_TM1**

**Test Channel = Mid**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	63.24	-118.17	-54.93	-40.00	14.93	235	64	Horizontal
2	2372.5200	69.98	-115.30	-45.32	-13.00	32.32	164	254	Horizontal
3	3163.3600	52.49	-112.10	-59.61	-13.00	46.61	152	134	Horizontal
4	3954.2000	51.14	-110.78	-59.64	-13.00	46.64	148	144	Horizontal
5	4745.0400	49.59	-108.84	-59.25	-13.00	46.25	197	24	Horizontal
6	5535.8800	48.29	-107.50	-59.21	-13.00	46.21	201	334	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	61.48	-118.17	-56.69	-40.00	16.69	236	206	Vertical
2	2372.5200	64.70	-115.30	-50.60	-13.00	37.60	251	216	Vertical
3	3163.3600	51.01	-112.10	-61.09	-13.00	48.09	255	156	Vertical
4	3954.2000	50.61	-110.78	-60.17	-13.00	47.17	146	145	Vertical
5	4745.0400	49.12	-108.84	-59.72	-13.00	46.72	190	1	Vertical
6	5535.8800	49.87	-107.50	-57.63	-13.00	44.63	123	75	Vertical



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**Test Band = LTE Band 14\_5M\_TM1**

**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	60.70	-118.18	-57.48	-40.00	17.48	184	215	Horizontal
2	2380	69.75	-115.29	-45.54	-13.00	32.54	175	236	Horizontal
3	3173.3600	52.08	-112.03	-59.95	-13.00	46.95	190	236	Horizontal
4	3966.7000	51.08	-110.75	-59.67	-13.00	46.67	236	195	Horizontal
5	4760.0400	49.62	-108.76	-59.14	-13.00	46.14	256	135	Horizontal
6	5553.3800	50.87	-107.50	-56.63	-13.00	43.63	291	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	60.88	-118.18	-57.30	-40.00	17.30	201	327	Vertical
2	2380.0200	60.02	-115.29	-55.27	-13.00	42.27	230	216	Vertical
3	3173.3600	50.89	-112.03	-61.14	-13.00	48.14	221	176	Vertical
4	3966.7000	49.48	-110.75	-61.27	-13.00	48.27	154	165	Vertical
5	4760.0400	49.14	-108.76	-59.62	-13.00	46.62	196	347	Vertical
6	5553.3800	48.66	-107.50	-58.84	-13.00	45.84	170	1	Vertical



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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	-7.60	-0.009584	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-21.40	-0.026986	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-13.30	-0.016772	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.30	-0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-3.90	-0.004918	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-5.00	-0.006305	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-1.50	-0.001892	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-6.20	-0.007818	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-13.60	-0.017150	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-10.60	-0.013367	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-13.10	-0.016520	PASS

The End

