

Report No.: SEWA2309000114RG09

Rev.: 01

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# Appendix B.8

## 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	23.99	24.26	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.97	24.24	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.85	24.12	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.02	23.29	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.87	24.14	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.03	24.3	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.90	24.17	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.90	23.17	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.12	24.39	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.08	24.35	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.78	24.05	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.96	23.23	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.22	23.49	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.13	23.4	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.21	23.48	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.03	22.3	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.18	23.45	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.02	23.29	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.95	23.22	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.91	22.18	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.13	23.4	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.02	23.29	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.93	23.2	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.89	22.16	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.10	22.37	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	22.16	22.43	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	22.04	22.31	34.77	PASS
Band14	5MHz	64QAM	23305	25RB#0	21.05	21.32	34.77	PASS



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Band14	5MHz	64QAM	23330	1RB#0	22.34	22.61	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	22.01	22.28	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.03	22.3	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.93	21.2	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	22.18	22.45	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	22.17	22.44	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.99	22.26	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.99	21.26	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#0	18.95	19.22	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#12	19.16	19.43	34.77	PASS
Band14	5MHz	256QAM	23305	1RB#24	19.09	19.36	34.77	PASS
Band14	5MHz	256QAM	23305	25RB#0	19.09	19.36	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#0	19.06	19.33	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#12	19.13	19.4	34.77	PASS
Band14	5MHz	256QAM	23330	1RB#24	18.90	19.17	34.77	PASS
Band14	5MHz	256QAM	23330	25RB#0	18.89	19.16	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#0	18.96	19.23	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#12	19.04	19.31	34.77	PASS
Band14	5MHz	256QAM	23355	1RB#24	18.93	19.2	34.77	PASS
Band14	5MHz	256QAM	23355	25RB#0	18.86	19.13	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.13	24.4	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.97	24.24	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.77	24.04	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.91	23.18	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.21	23.48	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.08	23.35	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.94	23.21	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.93	22.2	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.18	22.45	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.11	22.38	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.99	22.26	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.93	21.2	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#0	19.17	19.44	34.77	PASS



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Band14	10MHz	256QAM	23330	1RB#24	19.22	19.49	34.77	PASS
Band14	10MHz	256QAM	23330	1RB#49	18.96	19.23	34.77	PASS
Band14	10MHz	256QAM	23330	50RB#0	18.97	19.24	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	4.58	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.62	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.14	13	PASS
Band14	10MHz	256QAM	23330	50RB#0	6.50	13	PASS



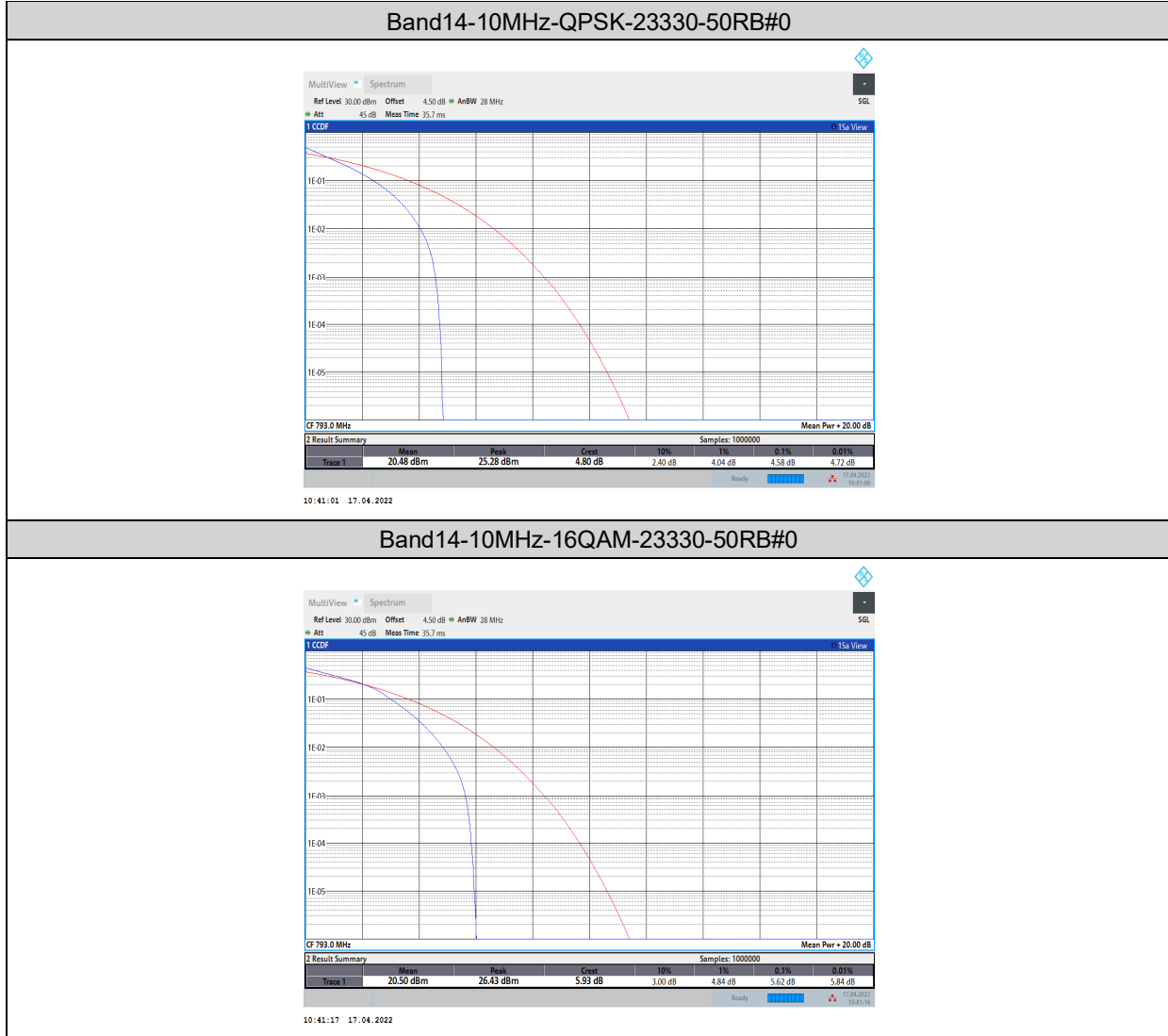
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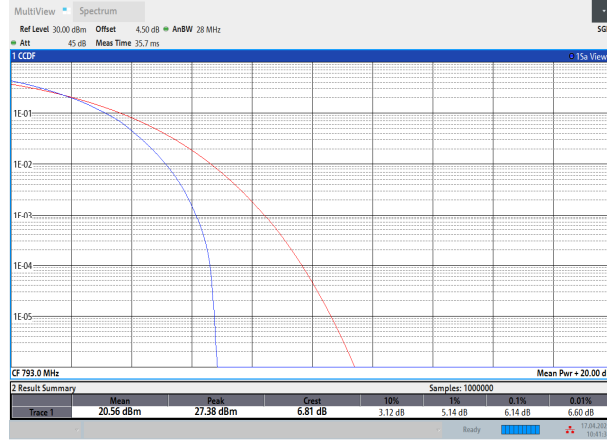
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Test Graphs

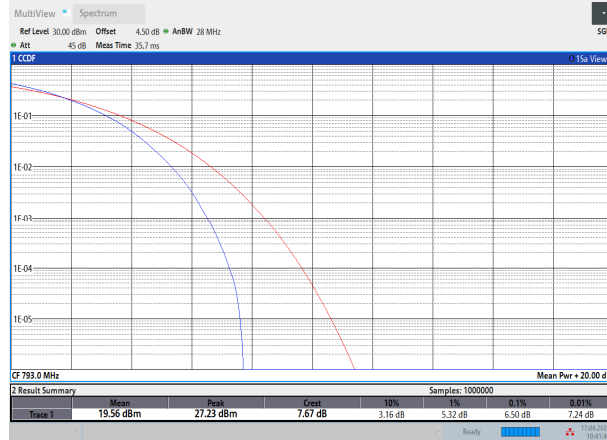


Band14-10MHz-64QAM-23330-50RB#0



10:41:33 17.04.2022

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



10:41:50 17.04.2022



## 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	4.476	5.08	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.478	5.06	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.478	5.05	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.48	5.03	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.478	5.02	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.474	5.07	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.482	5.03	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.481	5.04	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.474	5.05	PASS
Band14	5MHz	256QAM	23305	25RB#0	4.475	5.01	PASS
Band14	5MHz	256QAM	23330	25RB#0	4.476	5.03	PASS
Band14	5MHz	256QAM	23355	25RB#0	4.476	5.05	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.928	9.87	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.938	9.93	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.938	9.90	PASS
Band14	10MHz	256QAM	23330	50RB#0	8.941	9.93	PASS



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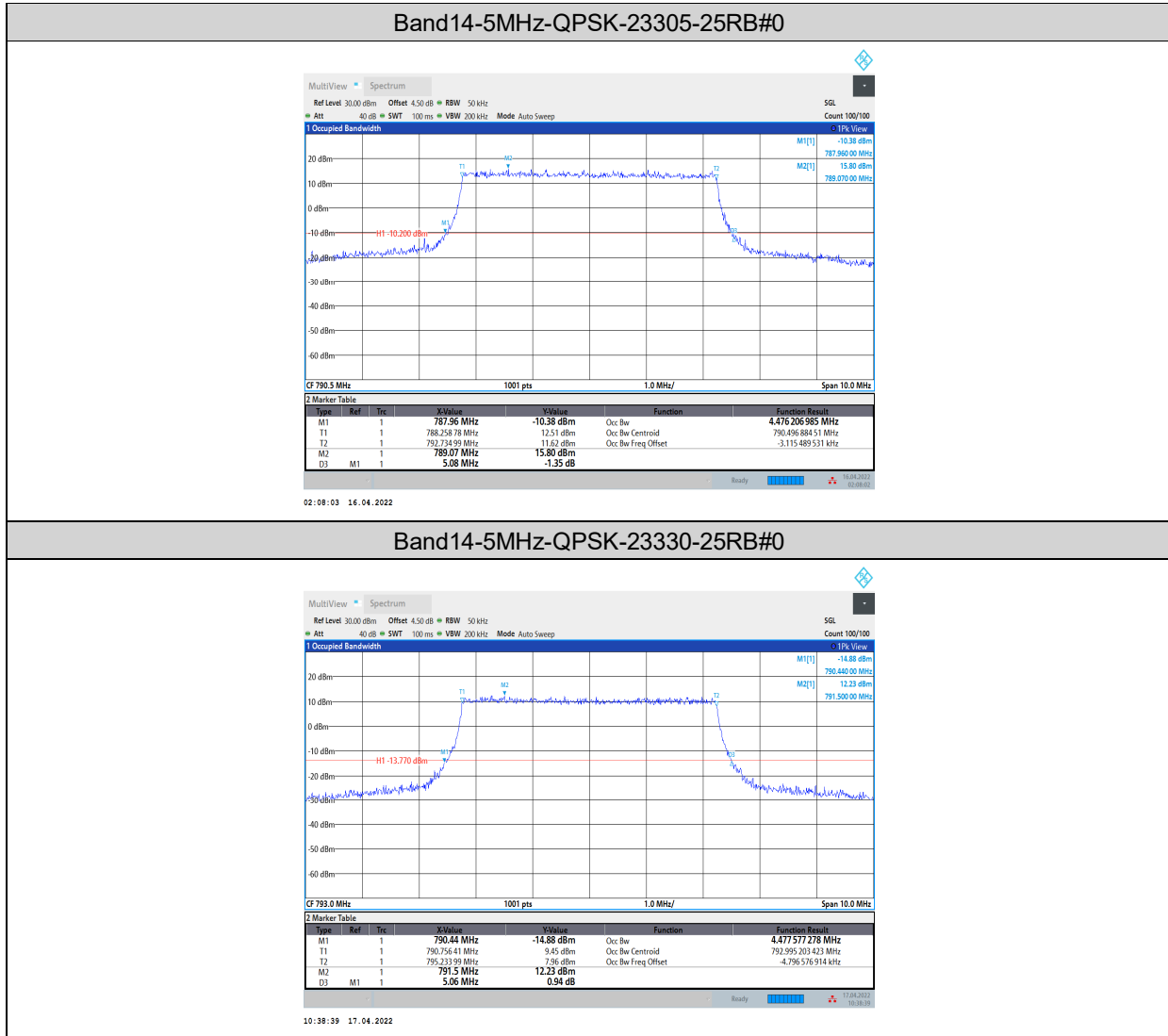
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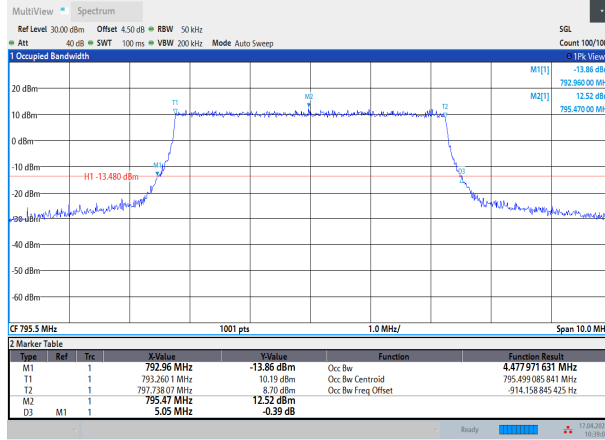


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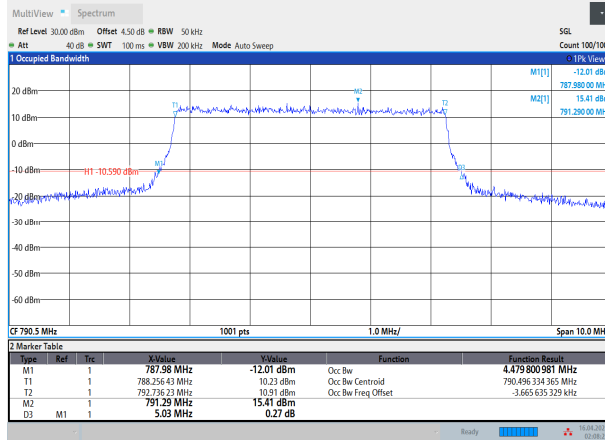
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Band14-5MHz-QPSK-23355-25RB#0



10:39:05 17.04.2022

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



02:08:28 16.04.2022



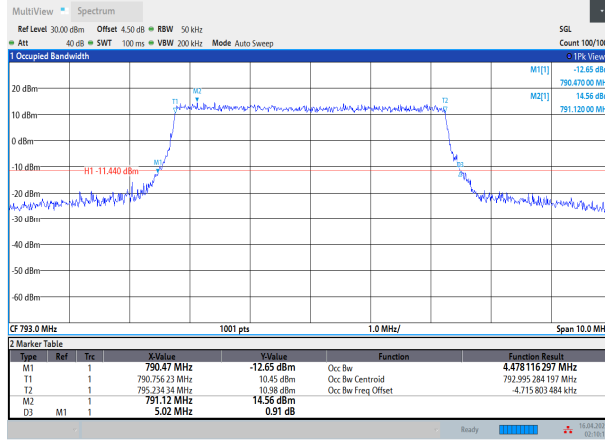
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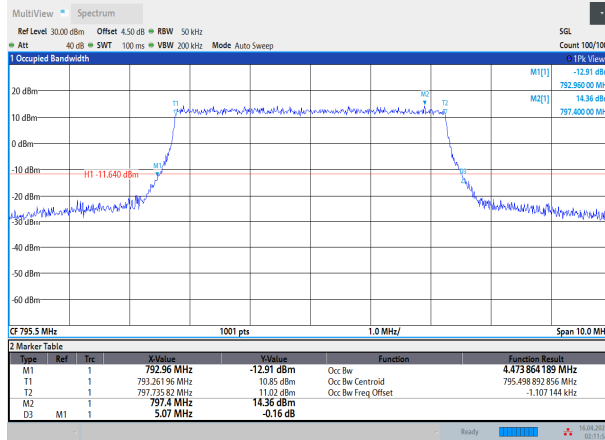
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Band14-5MHz-16QAM-23330-25RB#0



02:10:13 16.04.2022

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02:11:56 16.04.2022

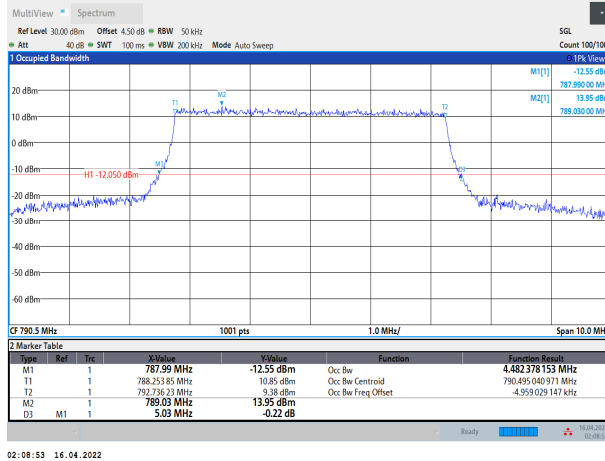


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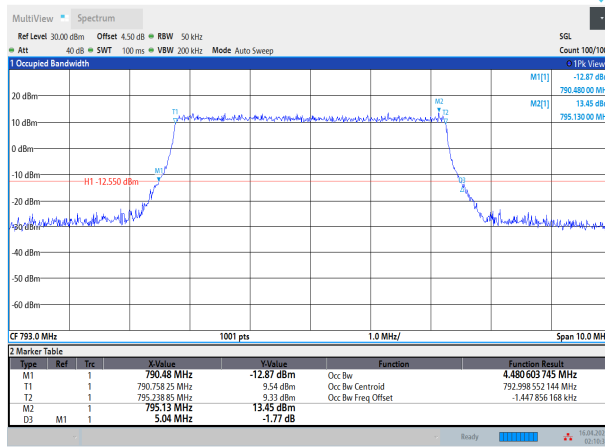
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Band14-5MHz-64QAM-23305-25RB#0



02:09:53 16.04.2022

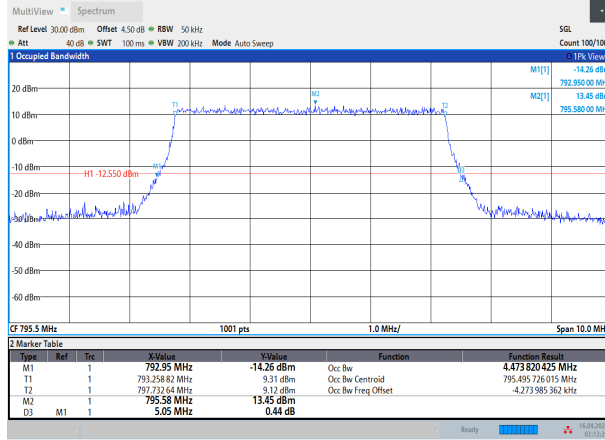
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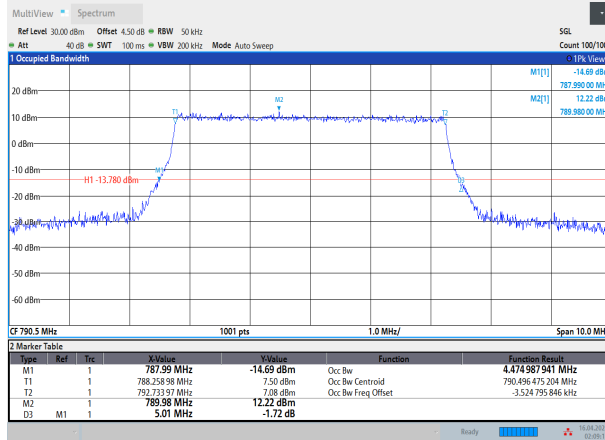


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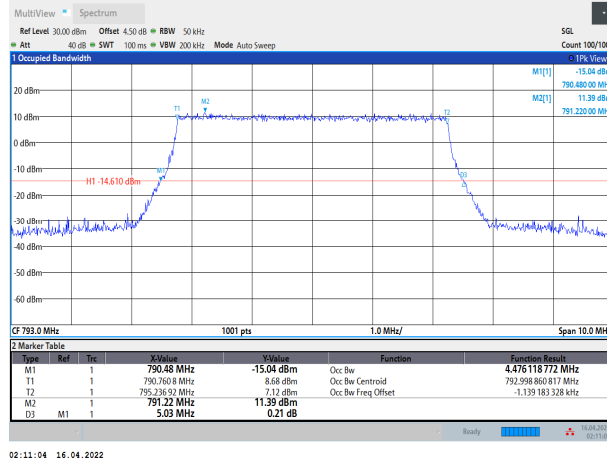


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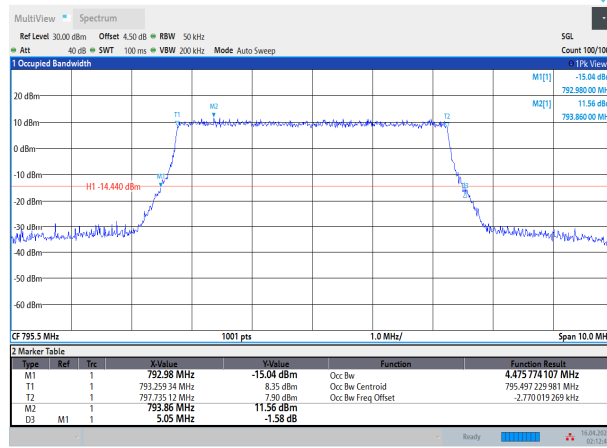
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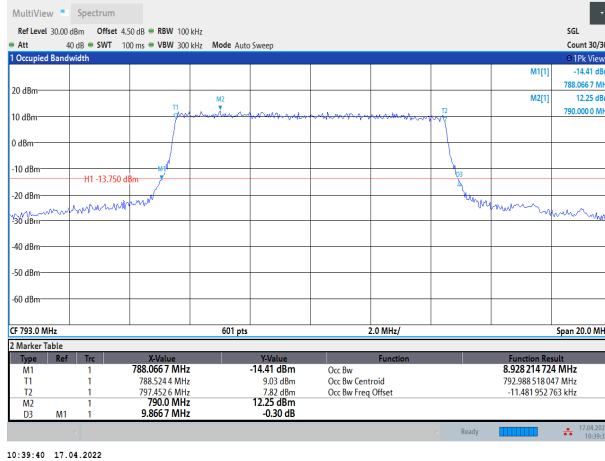


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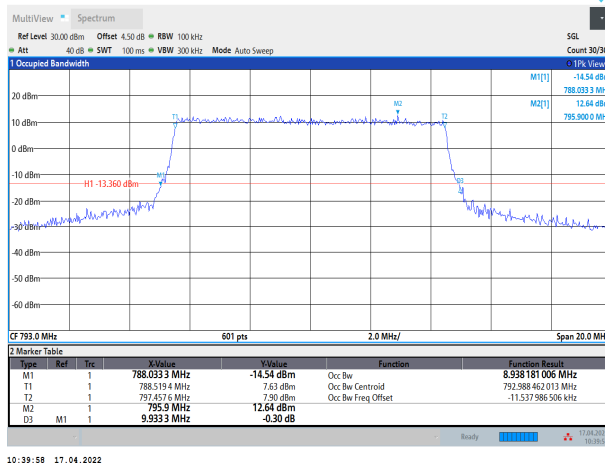
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Band14-10MHz-QPSK-23330-50RB#0



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

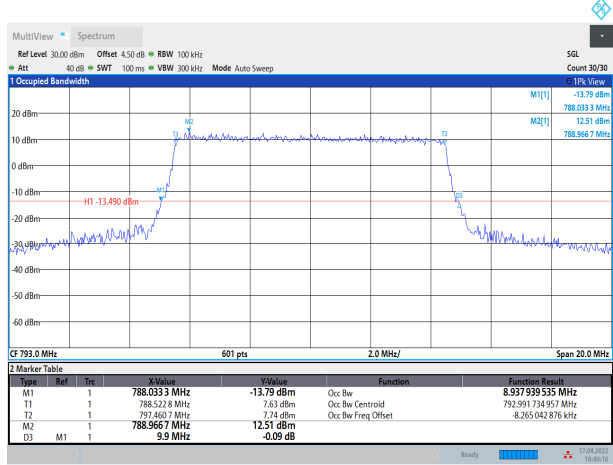


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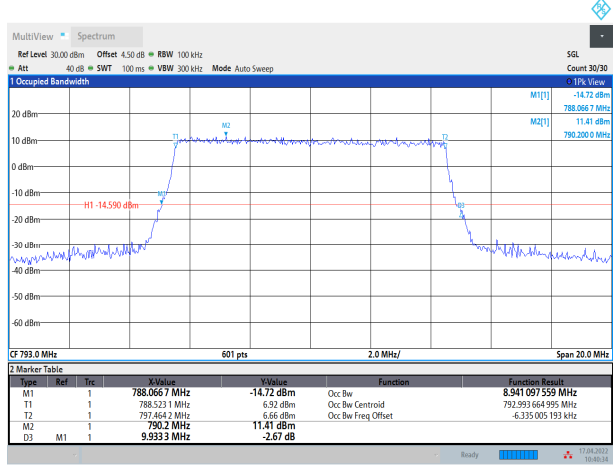
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Band14-10MHz-64QAM-23330-50RB#0



10:40:17 17.04.2022

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



10:40:35 17.04.2022



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## Emission Mask

## Test Graphs

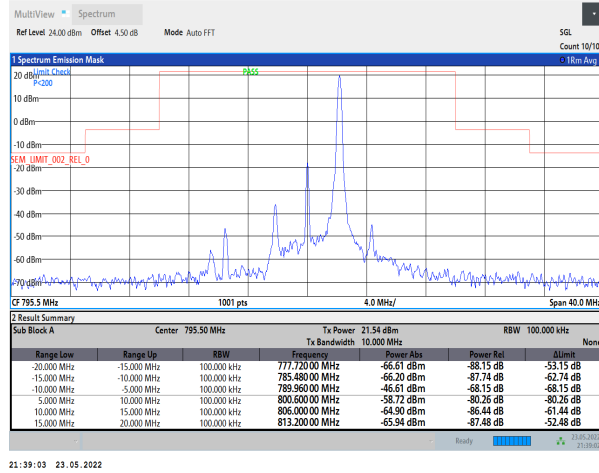


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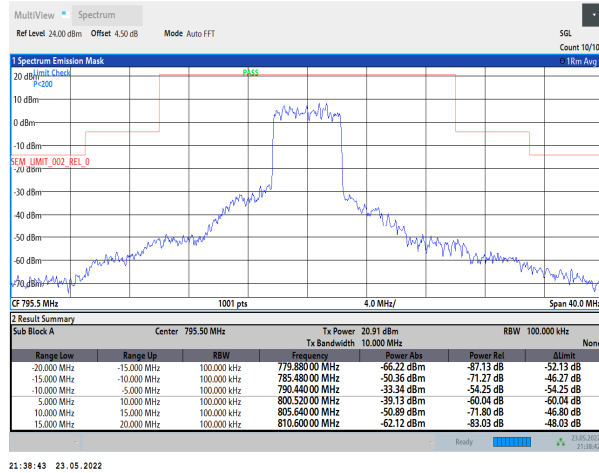
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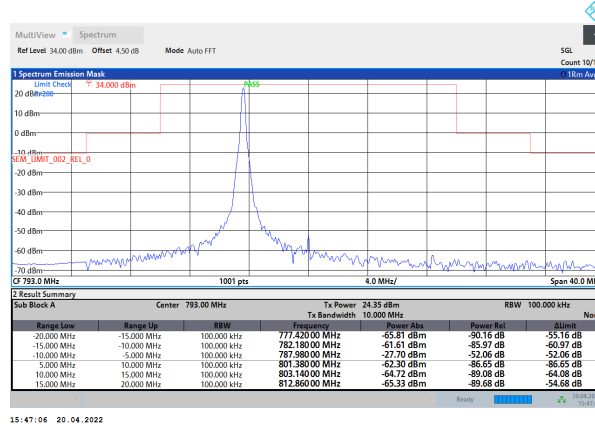


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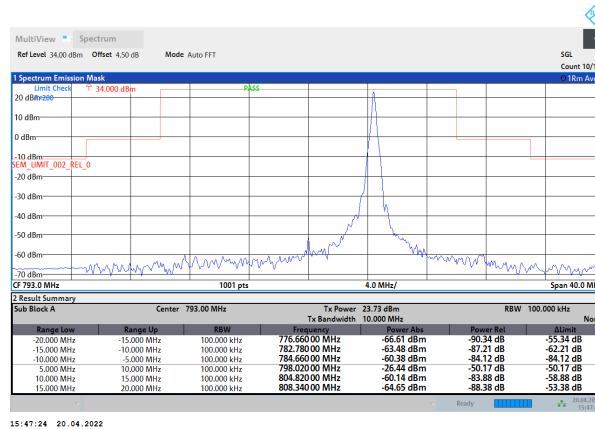
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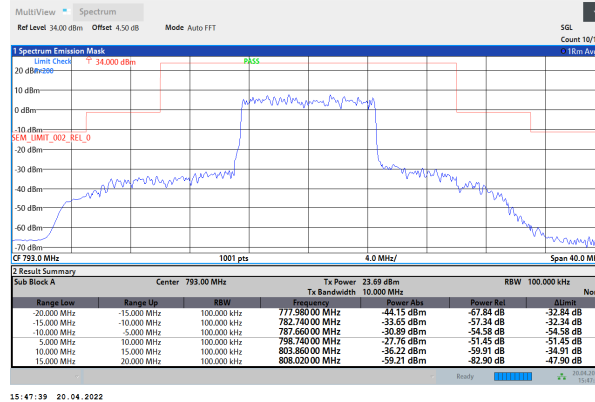
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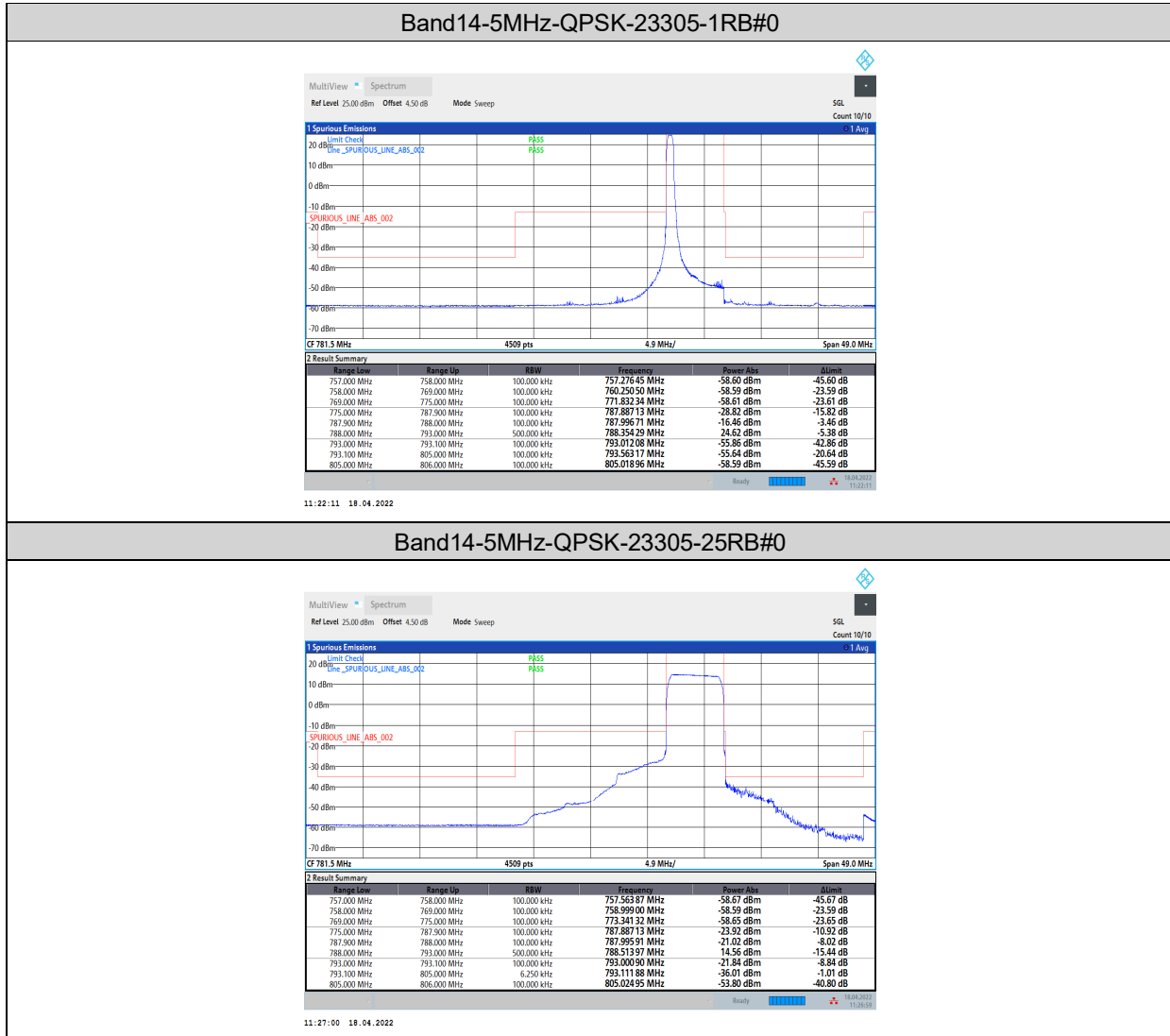
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## Band Edge

## Test Graphs



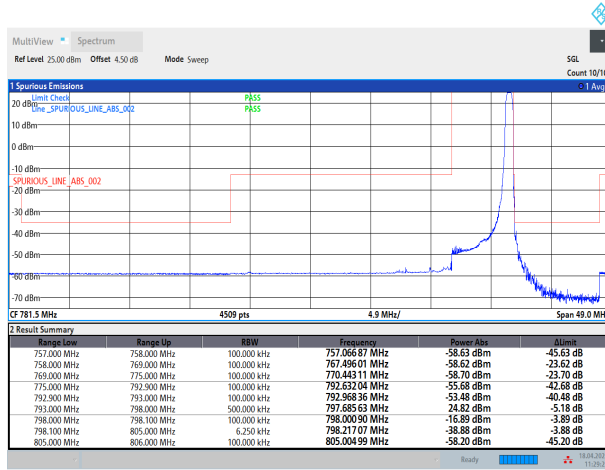
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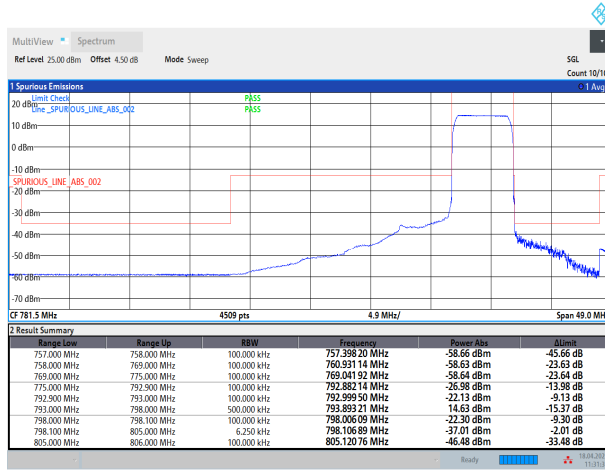
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11:19:29 18.04.2022

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



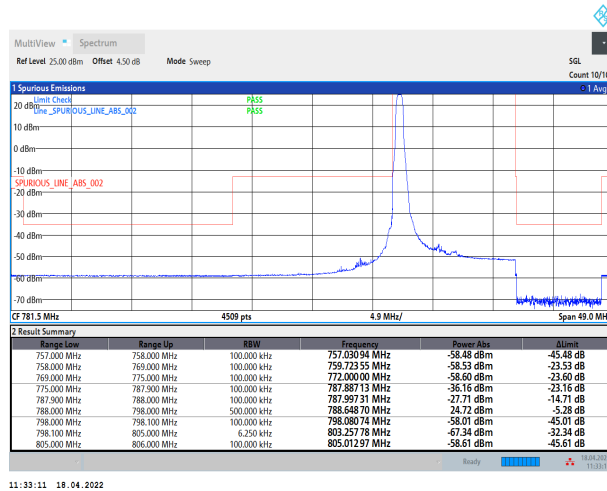
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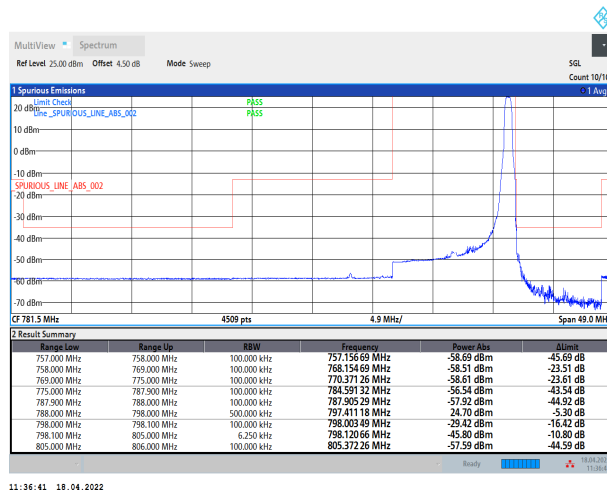
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11:33:11 18.04.2022

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



11:36:41 18.04.2022

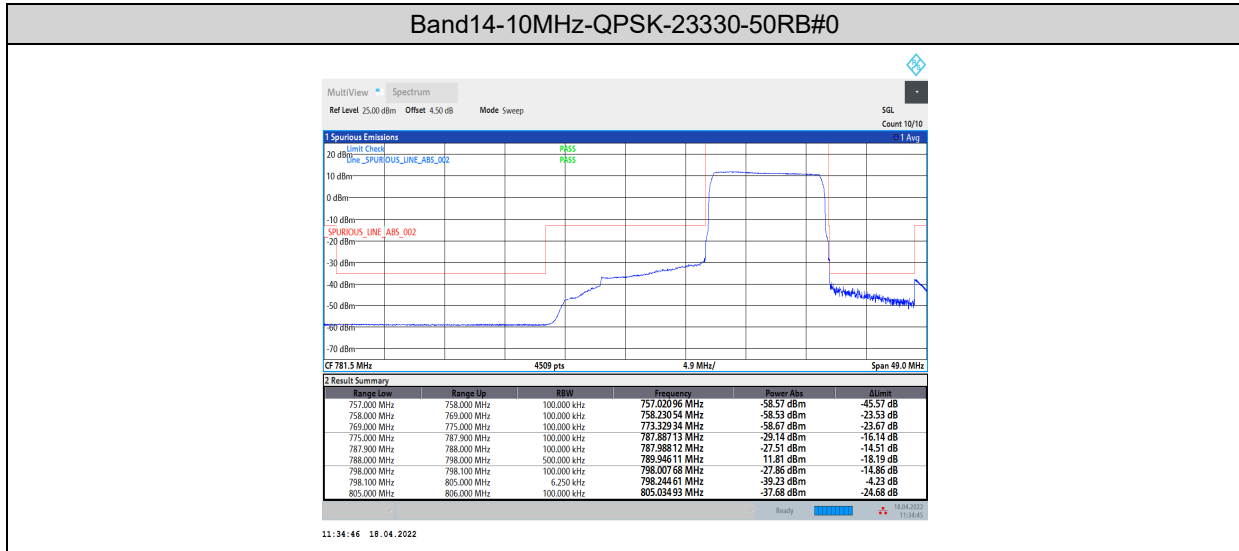


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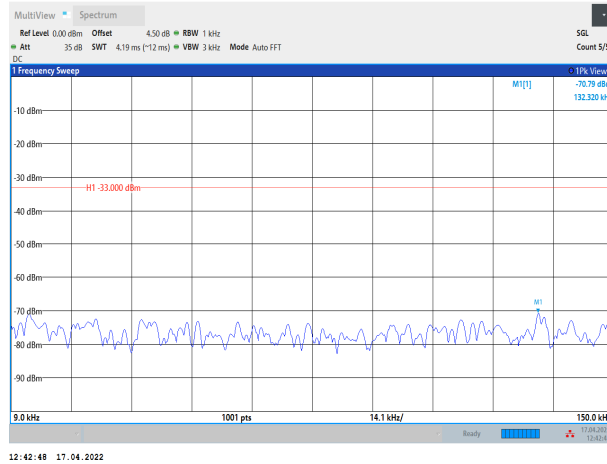
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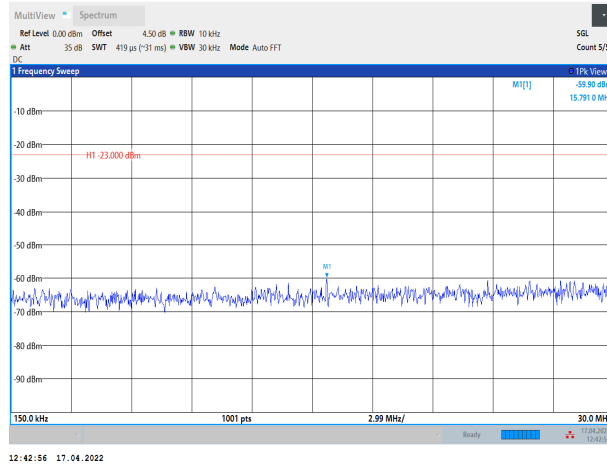
## Conducted Spurious Emission

### Test Graphs

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



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

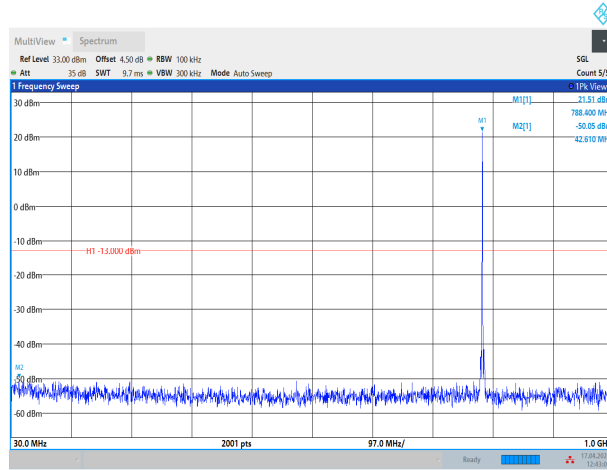


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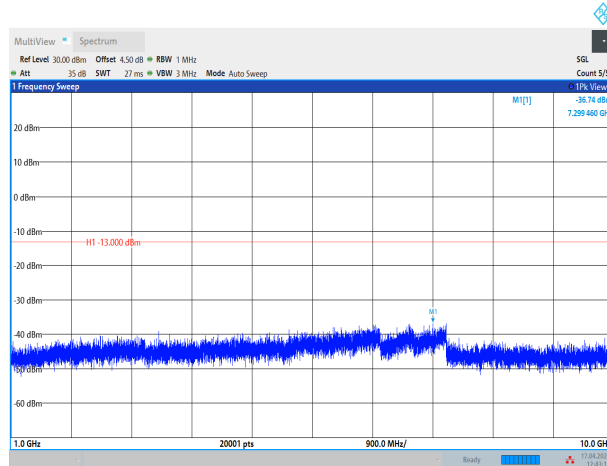
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



12:43:05 17.04.2022

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



12:43:14 17.04.2022



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## Field Strength of Spurious Radiation

Test Band = LTE Band 14 BW 10M\_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	62.78	-118.2	-55.42	-40.00	15.42	263	122	Horizontal
2	2365.77	65.48	-115.2	-49.75	-13.00	36.75	251	122	Horizontal
3	3154.36	51.20	-112.11	-60.91	-13.00	47.91	175	3	Horizontal
4	3942.95	49.93	-110.3	-60.38	-13.00	47.38	265	182	Horizontal
5	4731.54	49.81	-107.8	-58.06	-13.00	45.06	255	261	Horizontal
6	5520.13	50.93	-106.3	-55.42	-13.00	42.42	144	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.18	54.68	-118.2	-63.52	-40.00	23.52	263	96	Vertical
2	2365.77	54.25	-115.2	-60.98	-13.00	47.98	251	11	Vertical
3	3154.36	51.81	-112.11	-60.30	-13.00	47.30	175	39	Vertical
4	3942.95	49.70	-110.3	-60.61	-13.00	47.61	264	190	Vertical
5	4731.54	50.99	-107.8	-56.88	-13.00	43.88	144	22	Vertical
6	5520.13	49.78	-106.3	-56.57	-13.00	43.57	177	332	Vertical



**Test Band = LTE Band 14 BW 5M\_ TM1**

**Test Channel = Low Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	63.30	-118.2	-54.90	-40.00	14.90	263	60	Horizontal
2	2365.02	65.35	-115.2	-49.88	-13.00	36.88	251	124	Horizontal
3	3153.36	51.23	-112.1	-60.89	-13.00	47.89	174	295	Horizontal
4	3941.7	50.89	-110.3	-59.43	-13.00	46.43	162	153	Horizontal
5	4730.04	49.85	-107.8	-58.03	-13.00	45.03	254	309	Horizontal
6	5518.38	51.45	-106.3	-54.91	-13.00	41.91	177	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	53.54	-118.2	-64.66	-40.00	24.66	263	19	Vertical
2	2365.02	54.35	-115.2	-60.88	-13.00	47.88	251	96	Vertical
3	3153.36	52.82	-112.1	-59.30	-13.00	46.30	142	25	Vertical
4	3941.7	51.46	-110.3	-58.86	-13.00	45.86	264	111	Vertical
5	4730.04	50.70	-107.8	-57.18	-13.00	44.18	186	19	Vertical
6	5518.38	50.61	-106.3	-55.75	-13.00	42.75	241	235	Vertical



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**Test Band = LTE Band 14 BW 5M\_ TM1**

**Test Channel = Mid Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	62.65	-118.1	-55.54	-40.00	15.54	263	76	Horizontal
2	2372.4444	67.10	-115.2	-48.12	-13.00	35.12	251	123	Horizontal
3	3163.36	50.20	-112.0	-61.89	-13.00	48.89	142	28	Horizontal
4	3954.2	50.14	-110.2	-60.14	-13.00	47.14	263	59	Horizontal
5	4745.04	49.94	-107.8	-57.91	-13.00	44.91	322	76	Horizontal
6	5535.88	50.78	-106.2	-55.51	-13.00	42.51	144	76	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	54.39	-118.1	-63.80	-40.00	23.80	263	271	Vertical
2	2372.52	52.60	-115.2	-62.62	-13.00	49.62	241	86	Vertical
3	3163.36	51.72	-112.0	-60.37	-13.00	47.37	175	54	Vertical
4	3954.2	50.85	-110.2	-59.43	-13.00	46.43	262	145	Vertical
5	4745.04	49.47	-107.8	-58.38	-13.00	45.38	251	241	Vertical
6	5535.88	49.58	-106.2	-56.71	-13.00	43.71	147	145	Vertical



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**Test Band = LTE Band 14 BW 5M\_ TM1**

**Test Channel = High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6667	64.10	-118.1	-54.09	-40.00	14.09	263	138	Horizontal
2	2380.02	67.45	-115.2	-47.75	-13.00	34.75	241	138	Horizontal
3	3173.36	51.26	-112.0	-60.81	-13.00	47.81	176	264	Horizontal
4	3966.7	49.95	-110.2	-60.30	-13.00	47.30	264	30	Horizontal
5	4760.04	49.97	-107.8	-57.85	-13.00	44.85	172	340	Horizontal
6	5553.38	49.91	-106.2	-56.30	-13.00	43.30	263	106	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	53.36	-118.1	-64.83	-40.00	24.83	263	192	Vertical
2	2380	56.08	-115.2	-59.12	-13.00	46.12	241	283	Vertical
3	3173.36	51.76	-112.0	-60.31	-13.00	47.31	176	5	Vertical
4	3966.7	49.89	-110.2	-60.36	-13.00	47.36	264	176	Vertical
5	4760.04	50.80	-107.8	-57.02	-13.00	44.02	144	37	Vertical
6	5553.38	50.17	-106.2	-56.04	-13.00	43.04	268	192	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	-1.20	-0.001513	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-0.40	-0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-1.20	-0.001513	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-0.60	-0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-1.90	-0.002396	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-0.20	-0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-1.00	-0.001261	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-1.10	-0.001387	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.30	-0.001639	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-0.80	-0.001009	PASS

---End of Attachment---



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