

Report No.: SEWA2204000011RG01

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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)	EIRP (dBm)	Limit (dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.05	25.35	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.49	25.79	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	22.85	25.15	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.08	24.38	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.07	25.37	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.46	25.76	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.12	25.42	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.17	24.47	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	22.98	25.28	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.33	25.63	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	22.89	25.19	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.04	24.34	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	21.96	24.26	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	21.94	24.24	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	21.86	24.16	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	20.93	23.23	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	21.94	24.24	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	21.87	24.17	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	21.71	24.01	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.07	23.37	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	21.87	24.17	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	21.85	24.15	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.12	24.42	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	20.99	23.29	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.06	25.36	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.31	25.61	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	22.93	25.23	34.77	PASS



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Band14	10MHz	QPSK	23330	50RB#0	22	24.3	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	21.92	24.22	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.68	24.98	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	21.77	24.07	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.04	23.34	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	5.34	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.12	13	PASS



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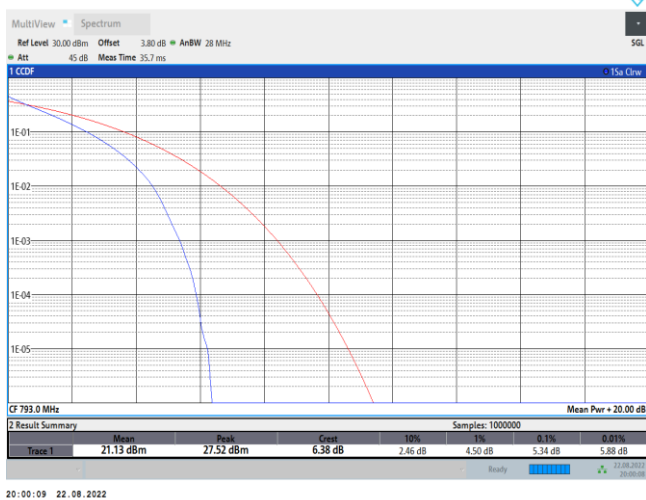
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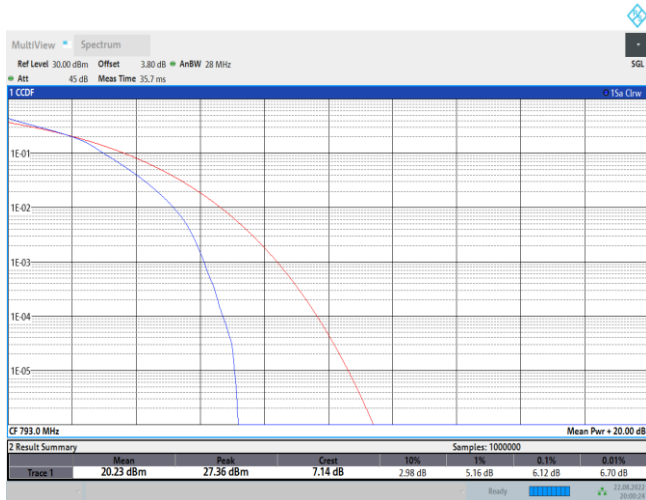
Test Graphs

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



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Band14-10MHz-16QAM-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



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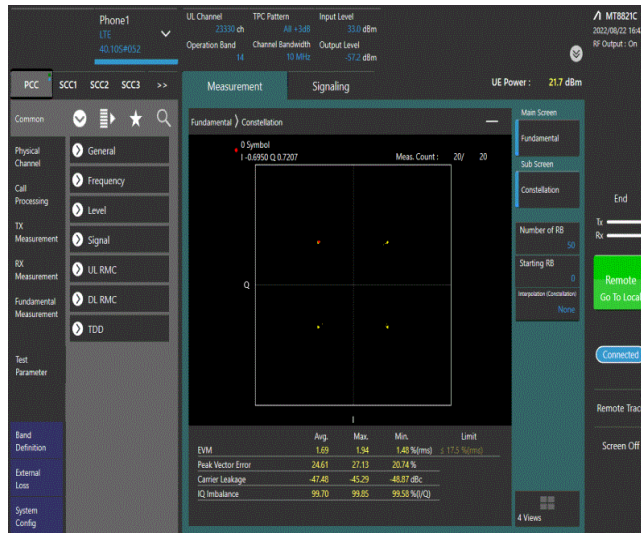
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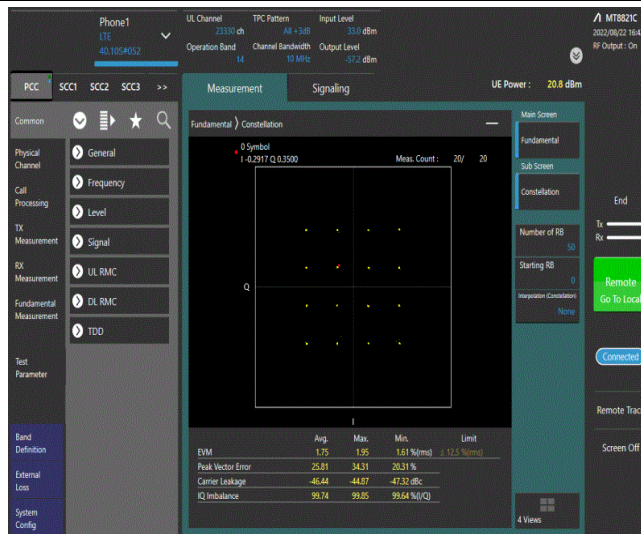
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Test Graphs

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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	4.468	4.89	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.467	4.89	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.466	4.88	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.461	4.94	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.46	4.94	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.462	4.91	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.93	9.70	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.91	9.70	PASS



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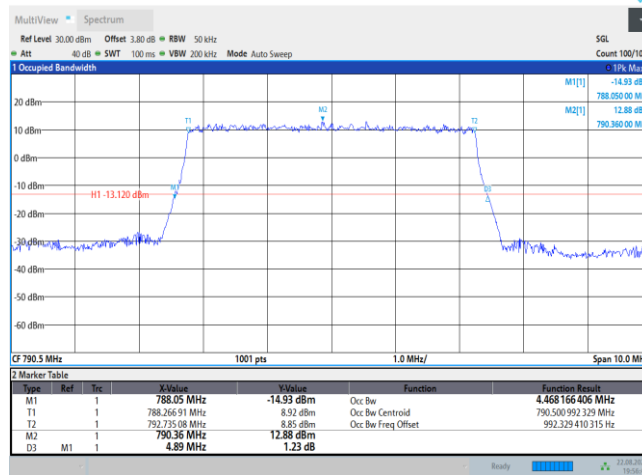
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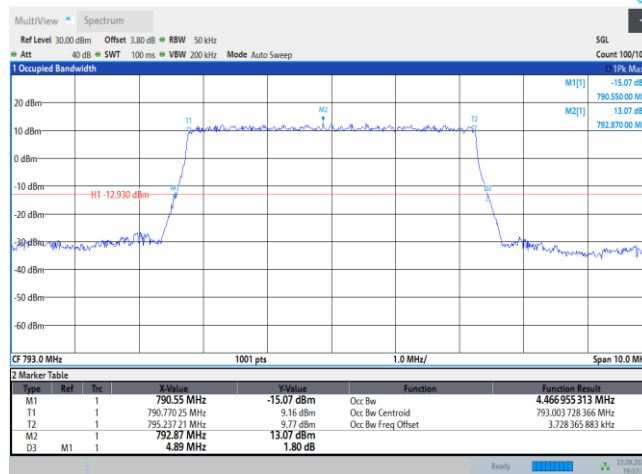


Test Graphs

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



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



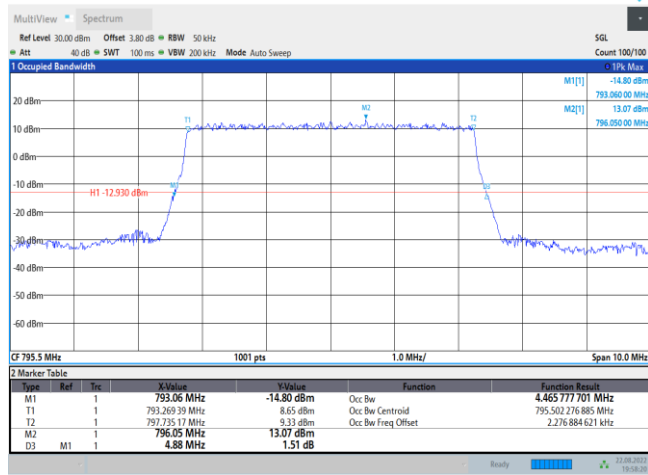
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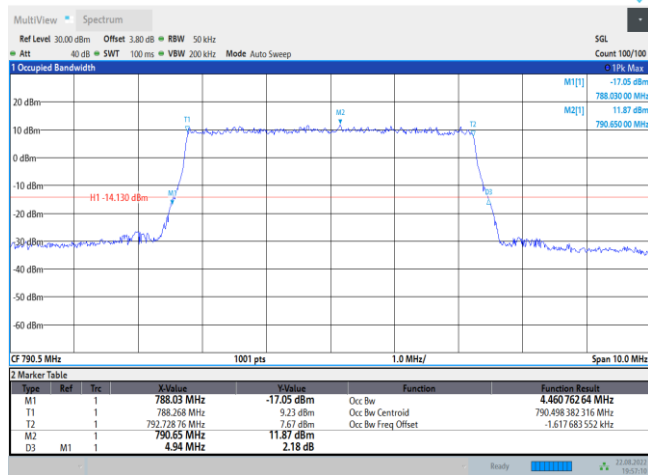
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Band14-5MHz-16QAM-23305-25RB#0

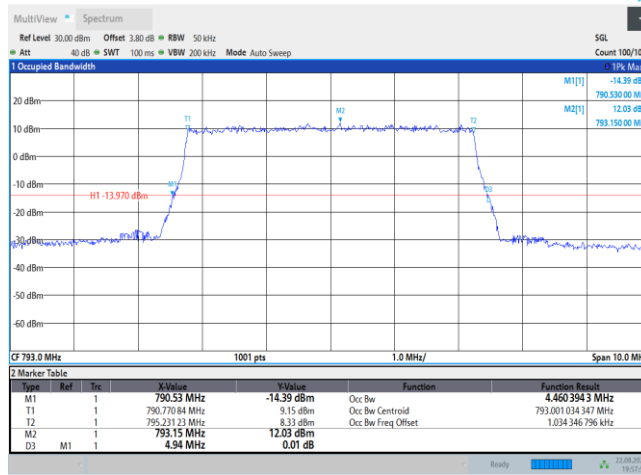


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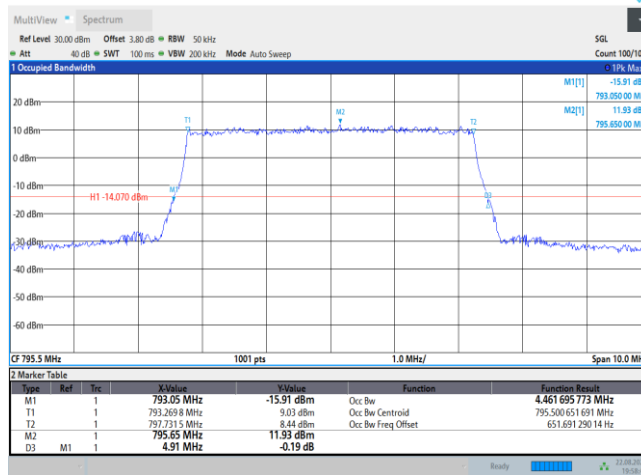
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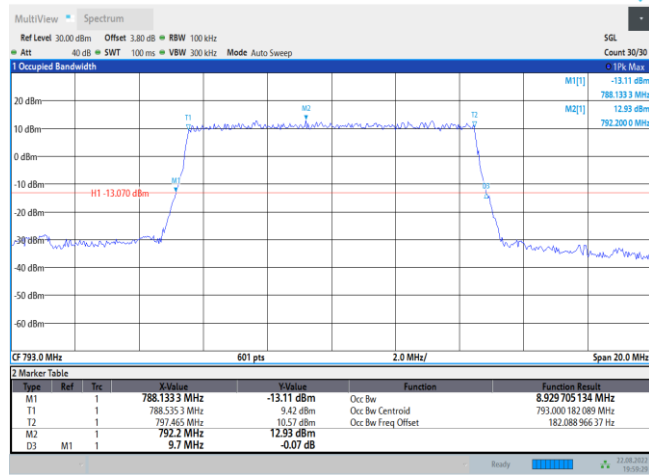
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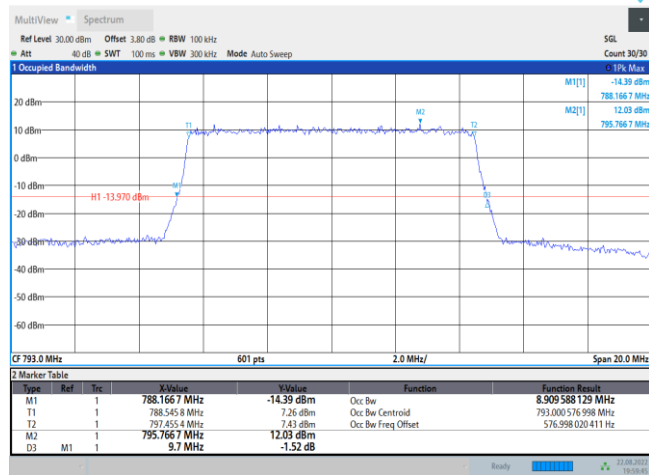
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Band14-10MHz-QPSK-23330-50RB#0



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



19:59:45 22.08.2022



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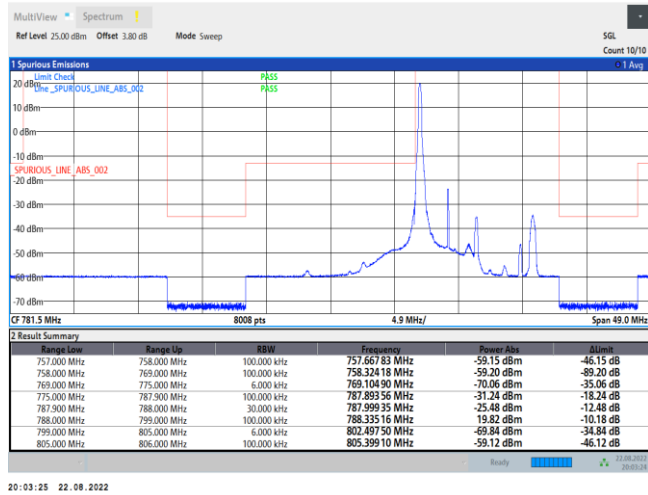
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Band Edge

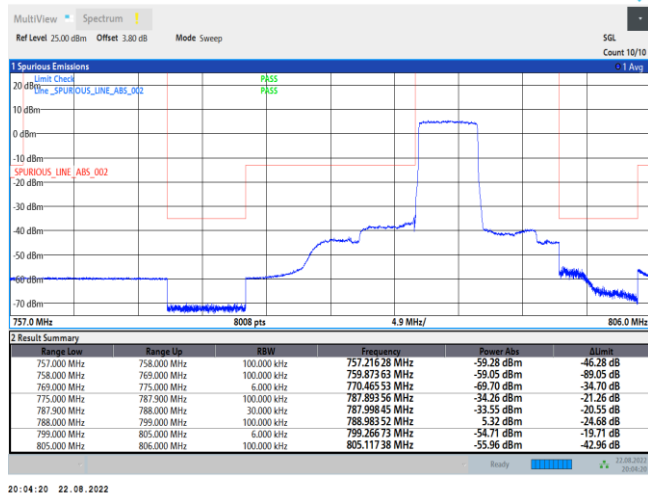
Test Graphs

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



20:03:25 22.08.2022

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



20:04:20 22.08.2022



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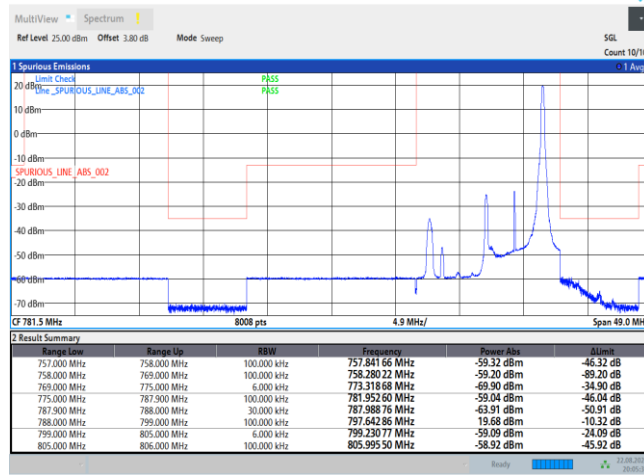
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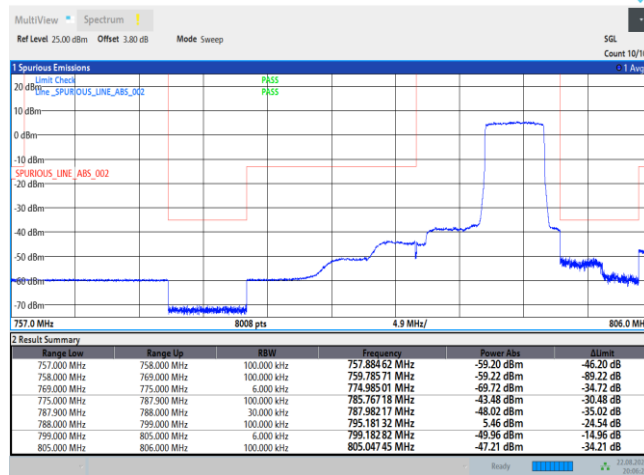
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Band14-5MHz-QPSK-23355-1RB#24



20:05:32 22.08.2022

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



20:06:27 22.08.2022

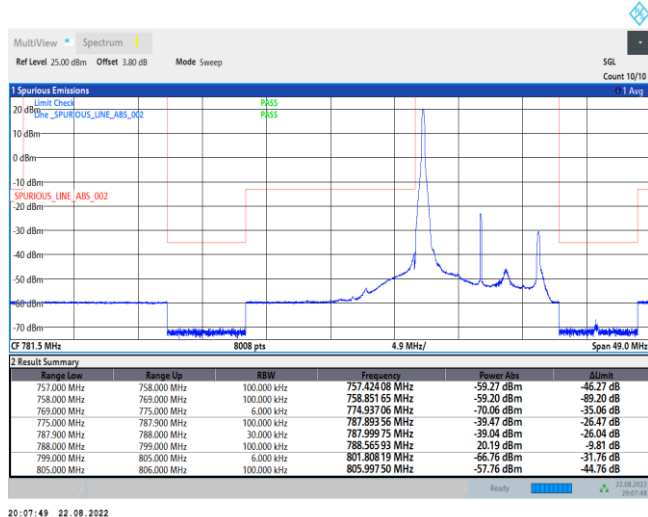


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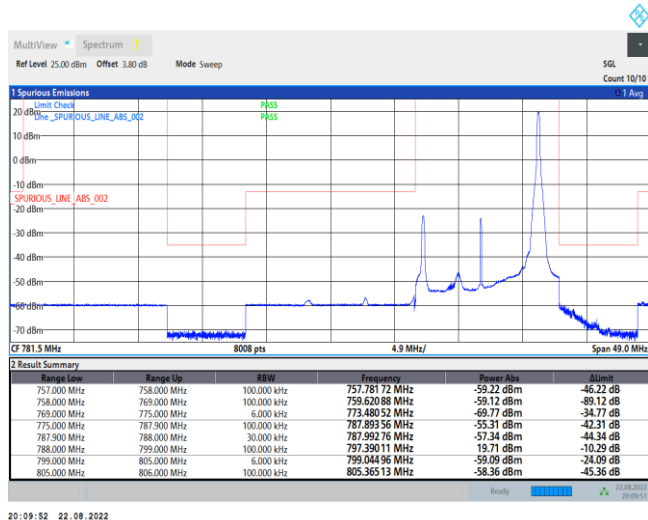
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Band14-10MHz-QPSK-23330-1RB#0



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

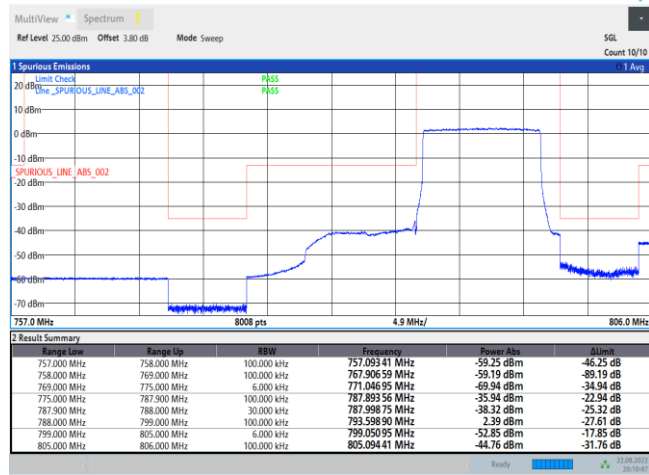


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Band14-10MHz-QPSK-23330-50RB#0



20:10:48 22.08.2022



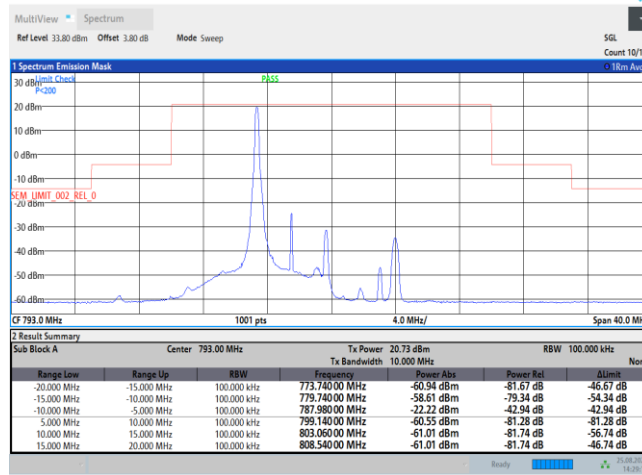
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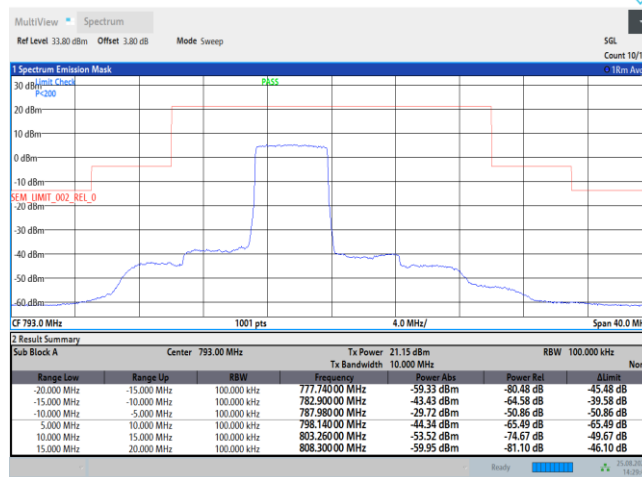
# Emission Mask

## Test Graphs

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



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



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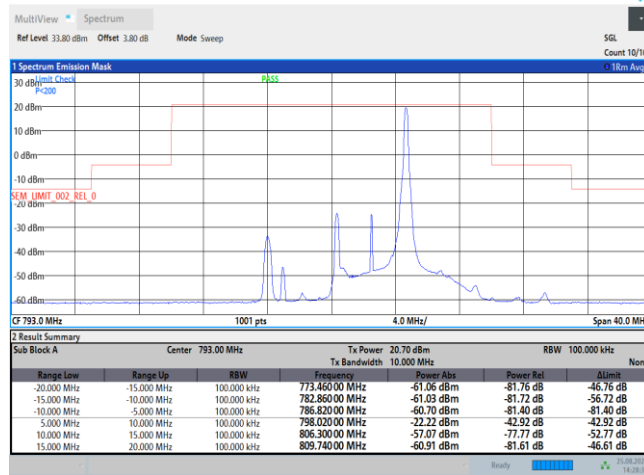
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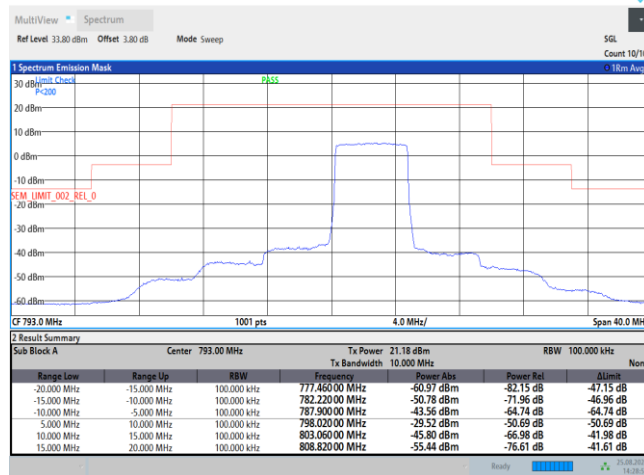
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Band14-5MHz-QPSK-23355-1RB#24



14:28:39 25.08.2022

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



14:28:58 25.08.2022



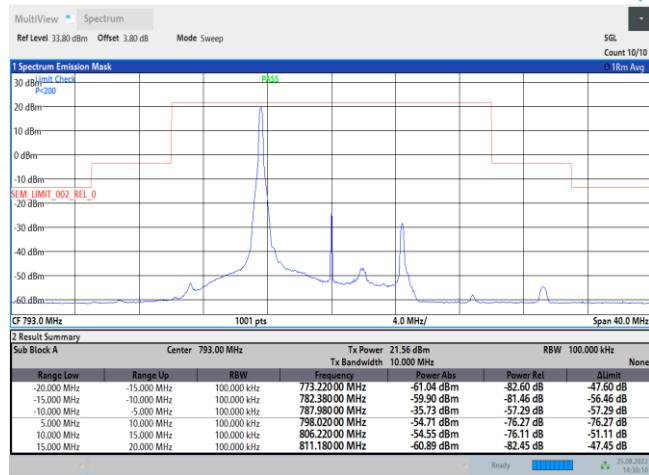
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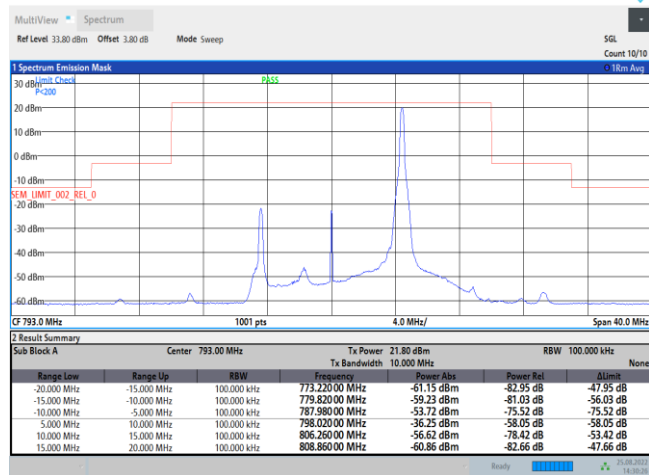
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Band14-10MHz-QPSK-23330-1RB#0



14:30:10 25.08.2022

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



14:30:26 25.08.2022



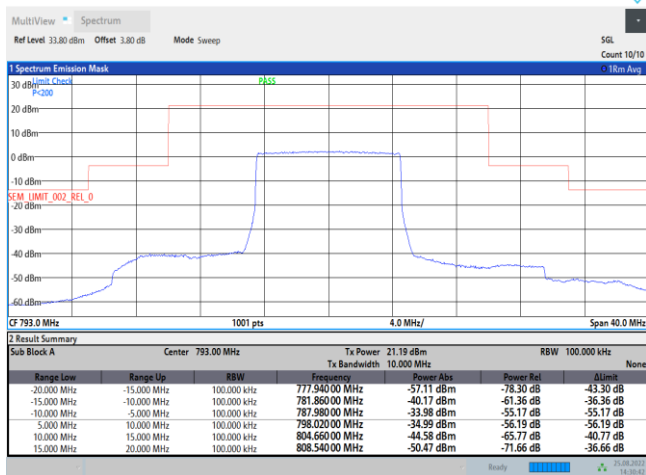
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14:30:43 25.08.2022

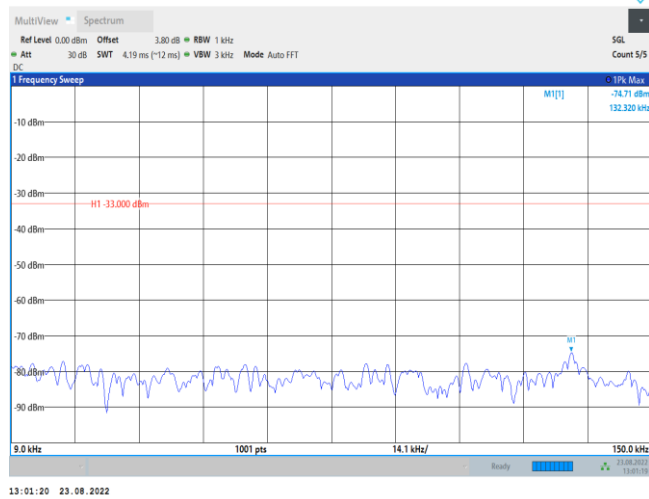


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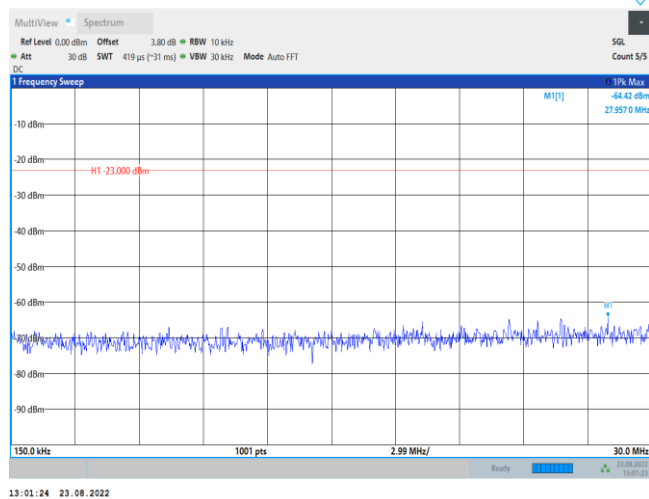
## Conducted Spurious Emission

### Test Graphs

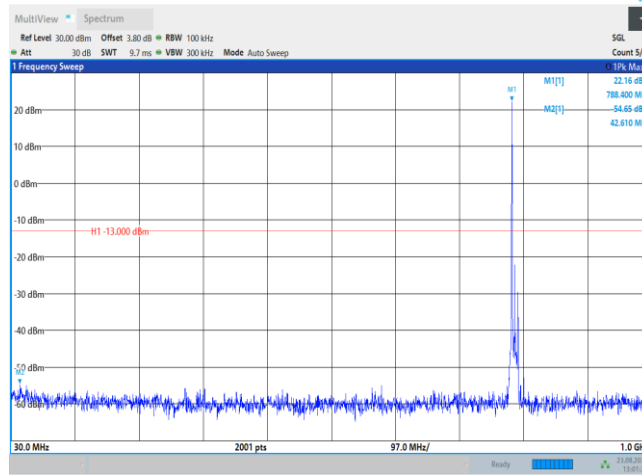
Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



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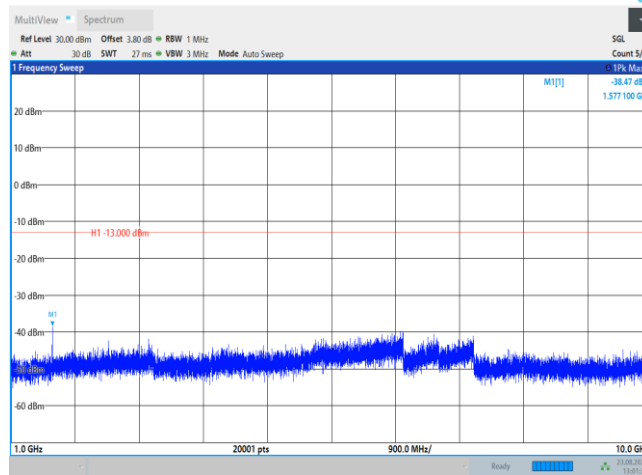


Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



13:01:28 23.08.2022

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



13:01:32 23.08.2022



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## 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]	Height [cm]	Angle [°]	Polarity
1	1577.1800	57.15	-48.29	25.38	-61.02	-40.00	21.02	216	252	Horizontal
2	2365.7700	64.89	-47.47	27.42	-50.41	-13.00	37.41	142	306	Horizontal
3	3154.3600	51.06	-46.50	29.61	-61.09	-13.00	48.09	236	319	Horizontal
4	3942.9500	49.27	-46.22	30.67	-61.54	-13.00	48.54	251	184	Horizontal
5	4731.5400	49.68	-45.75	32.11	-59.22	-13.00	46.22	145	0	Horizontal
6	5520.1300	48.09	-45.17	32.93	-59.40	-13.00	46.40	199	6	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	58.14	-48.29	25.38	-60.03	-40.00	20.03	211	360	Vertical
2	2365.7700	58.65	-47.47	27.42	-56.65	-13.00	43.65	145	230	Vertical
3	3154.3600	49.85	-46.50	29.61	-62.30	-13.00	49.30	261	81	Vertical
4	3942.9500	50.87	-46.22	30.67	-59.94	-13.00	46.94	236	4	Vertical
5	4731.5400	48.93	-45.75	32.11	-59.97	-13.00	46.97	251	94	Vertical
6	5520.1300	47.96	-45.17	32.93	-59.53	-13.00	46.53	149	360	Vertical



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**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	1576.5714	59.69	-48.29	25.38	-58.48	-40.00	18.48	222	251	Horizontal
2	2365.0200	67.47	-47.47	27.42	-47.83	-13.00	34.83	148	117	Horizontal
3	3153.3600	50.02	-46.50	29.60	-62.14	-13.00	49.14	175	347	Horizontal
4	3941.7000	49.11	-46.22	30.66	-61.70	-13.00	48.70	132	212	Horizontal
5	4730.0400	49.75	-45.75	32.11	-59.15	-13.00	46.15	261	184	Horizontal
6	5518.3800	47.30	-45.16	32.93	-60.19	-13.00	47.19	199	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	1576.5714	59.24	-48.29	25.38	-58.93	-40.00	18.93	215	360	Vertical
2	2365.0200	62.86	-47.47	27.42	-52.44	-13.00	39.44	145	108	Vertical
3	3153.3600	50.67	-46.50	29.60	-61.49	-13.00	48.49	261	134	Vertical
4	3941.7000	51.89	-46.22	30.66	-58.92	-13.00	45.92	133	93	Vertical
5	4730.0400	48.49	-45.75	32.11	-60.41	-13.00	47.41	175	41	Vertical
6	5518.3800	48.25	-45.16	32.93	-59.24	-13.00	46.24	149	360	Vertical



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 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
 t (86-512) 62992980 sgs.china@sgs.com



**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	63.44	-48.29	25.37	-54.73	-40.00	14.73	169	118	Horizontal
2	2372.5200	68.48	-47.46	27.43	-46.82	-13.00	33.82	145	132	Horizontal
3	3163.3600	49.88	-46.46	29.62	-62.22	-13.00	49.22	175	91	Horizontal
4	3954.2000	50.25	-46.21	30.69	-60.53	-13.00	47.53	144	158	Horizontal
5	4745.0400	47.92	-45.73	32.15	-60.92	-13.00	47.92	126	50	Horizontal
6	5535.8800	48.20	-45.19	32.95	-59.30	-13.00	46.30	291	332	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	59.73	-48.29	25.37	-58.44	-40.00	18.44	122	359	Vertical
2	2372.5200	61.68	-47.46	27.43	-53.62	-13.00	40.62	154	106	Vertical
3	3163.3600	51.91	-46.46	29.62	-60.19	-13.00	47.19	185	237	Vertical
4	3954.2000	50.71	-46.21	30.69	-60.07	-13.00	47.07	169	359	Vertical
5	4745.0400	48.84	-45.73	32.15	-60.00	-13.00	47.00	142	26	Vertical
6	5535.8800	47.08	-45.19	32.95	-60.42	-13.00	47.42	133	237	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	62.80	-48.29	25.37	-55.38	-40.00	15.38	254	144	Horizontal
2	2380.0200	67.48	-47.46	27.43	-47.81	-13.00	34.81	126	117	Horizontal
3	3173.3600	49.87	-46.41	29.64	-62.16	-13.00	49.16	145	0	Horizontal
4	3966.7000	49.66	-46.21	30.72	-61.09	-13.00	48.09	196	197	Horizontal
5	4760.0400	48.36	-45.70	32.20	-60.40	-13.00	47.40	135	130	Horizontal
6	5553.3800	48.24	-45.21	32.97	-59.26	-13.00	46.26	170	2	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	59.02	-48.29	25.37	-59.16	-40.00	19.16	214	360	Vertical
2	2380.0200	60.86	-47.46	27.43	-54.43	-13.00	41.43	156	216	Vertical
3	3173.3600	50.34	-46.41	29.64	-61.69	-13.00	48.69	261	41	Vertical
4	3966.7000	51.30	-46.21	30.72	-59.45	-13.00	46.45	175	94	Vertical
5	4760.0400	47.79	-45.70	32.20	-60.97	-13.00	47.97	149	68	Vertical
6	5553.3800	47.83	-45.21	32.97	-59.67	-13.00	46.67	133	298	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBuV) + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBm) - Level(dBm)

dBuV=dbm+95.26



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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	0.50	0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.40	0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-0.70	-0.000883	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	-0.40	-0.000504	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-0.10	-0.000126	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-0.50	-0.000631	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	0.70	0.000883	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	0.60	0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-0.30	-0.000378	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	1.40	0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	0.40	0.000504	PASS

$|\text{MAX}(\Delta f)| = 1.4\text{Hz}$

Frequency Stability	Frequency (MHz)	Limit Line	Result
$f_L -  \text{MAX}(\Delta f) $	777.568954	$\cong 788\text{ MHz}$	PASS
$f_H +  \text{MAX}(\Delta f) $	786.454182	$\cong 798\text{ MHz}$	

---End of Attachment---



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 t (86-512) 62992980 sgs.china@sgs.com