

Report No.: SEWA2205000012RG01

Rev.: 01

Page: 1 of 27

# 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	23.27	24.59	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.04	24.36	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.21	24.53	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.23	23.55	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.18	24.50	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.13	24.45	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.33	24.65	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.22	23.54	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.35	24.67	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.27	24.59	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.23	24.55	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.36	23.68	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	22.47	23.79	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	22.31	23.63	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.41	23.73	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.16	22.48	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.56	23.88	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.51	23.83	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.48	23.80	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.27	22.59	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.70	24.02	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.68	24.00	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.61	23.93	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.29	22.61	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.50	24.82	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.25	24.57	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.37	24.69	34.77	PASS



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 3 of 27

Band14	10MHz	QPSK	23330	50RB#0	22.27	23.59	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	22.68	24.00	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.54	23.86	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.71	24.03	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.27	22.59	34.77	PASS



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 4 of 27

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.92	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	6.58	13	PASS



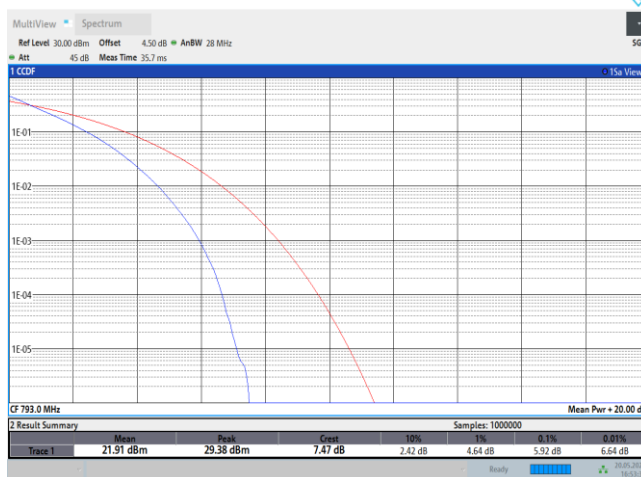
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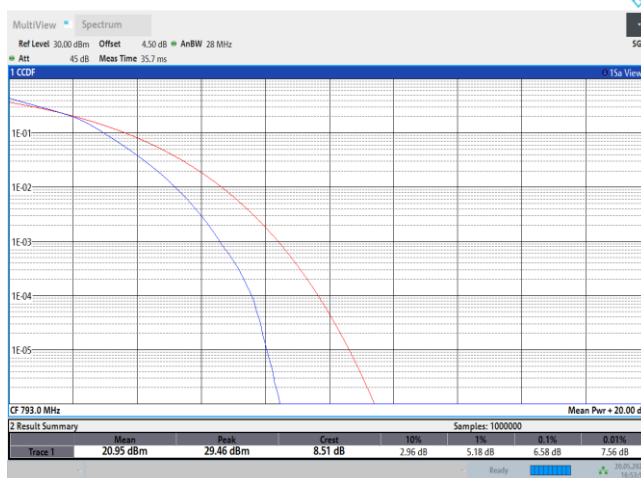
Test Graphs

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



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



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Report No.: SEWA2205000012RG01

Rev.: 01

Page: 6 of 27

## 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



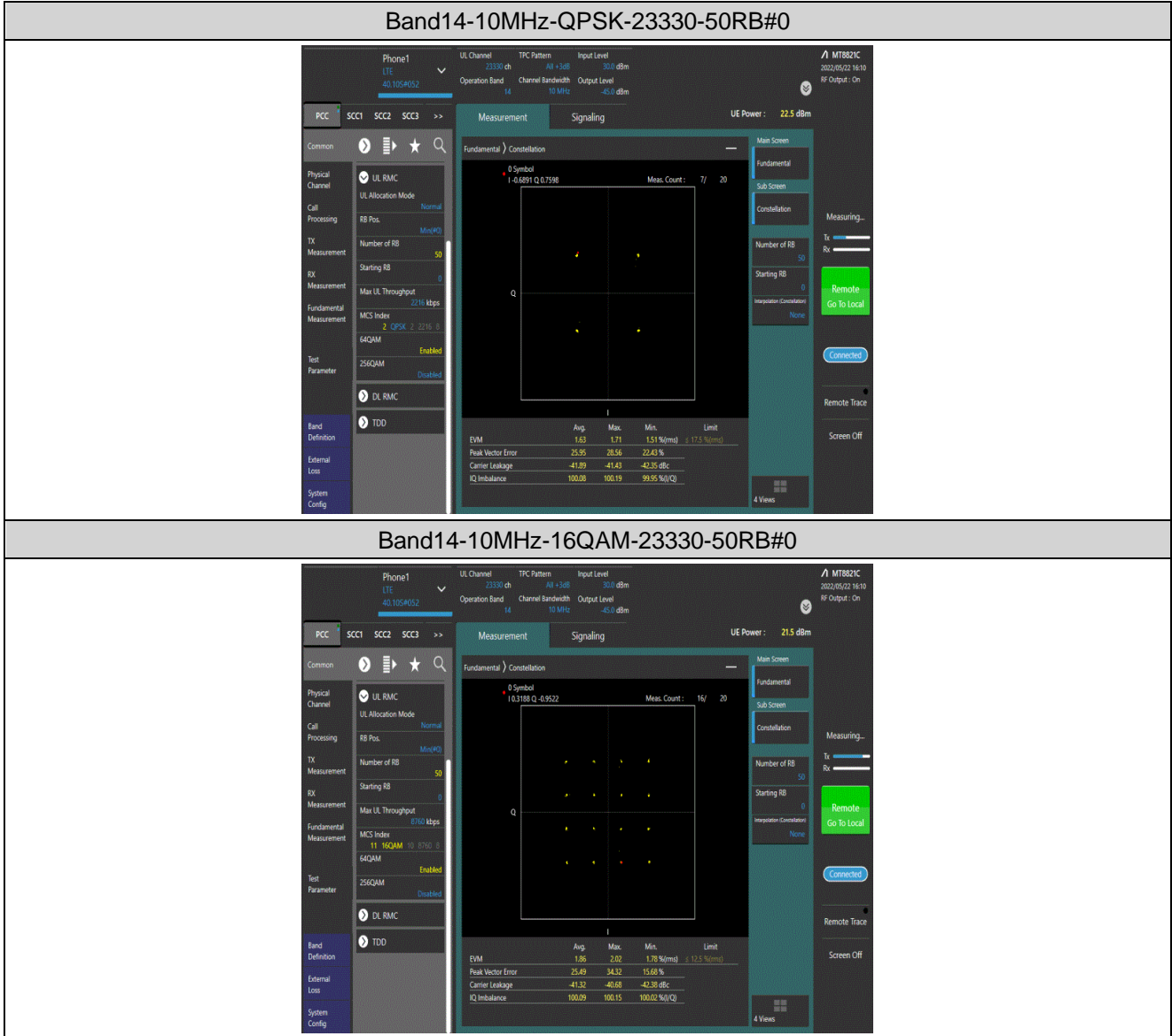
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Test Graphs



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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	4.469	4.91	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.469	4.91	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.467	4.90	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.465	4.93	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.46	4.91	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.462	4.90	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.934	9.67	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.915	9.63	PASS



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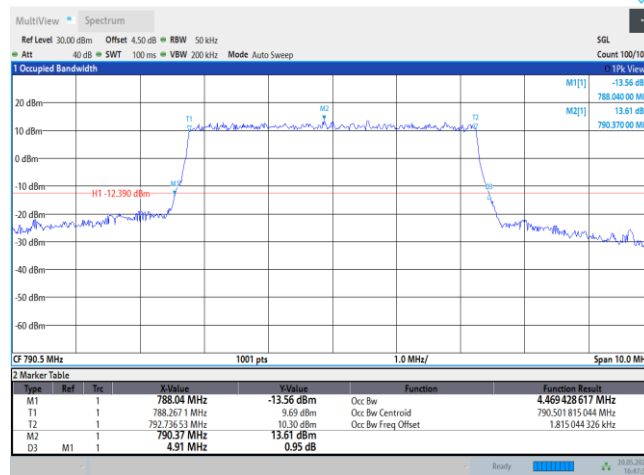
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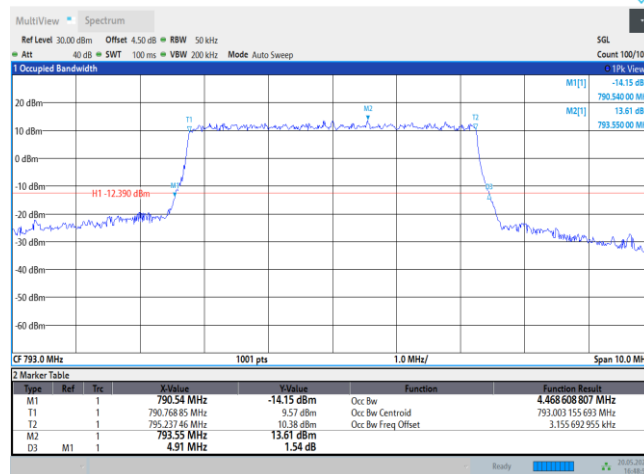


Test Graphs

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



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



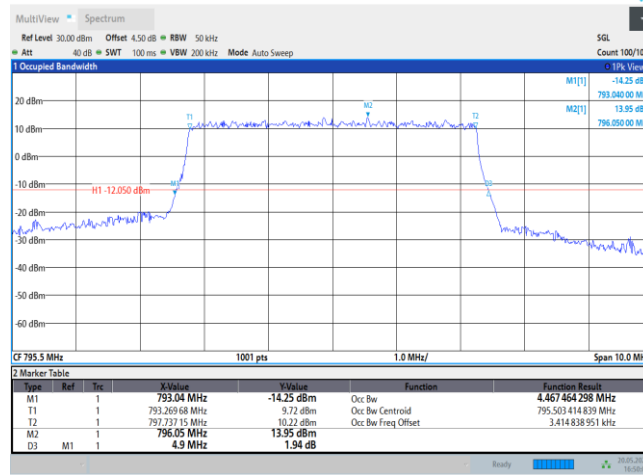
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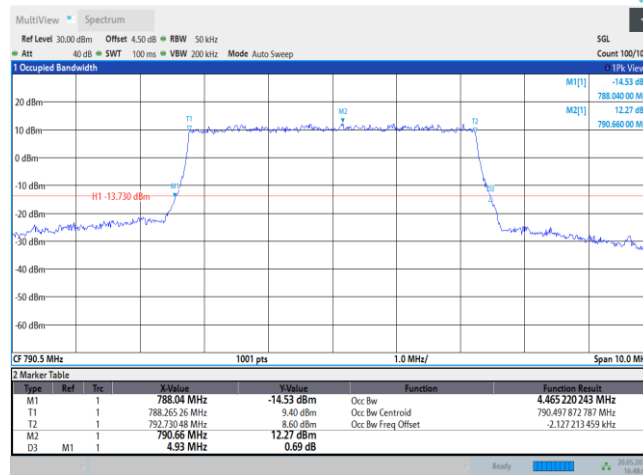
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Band14-5MHz-QPSK-23355-25RB#0



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



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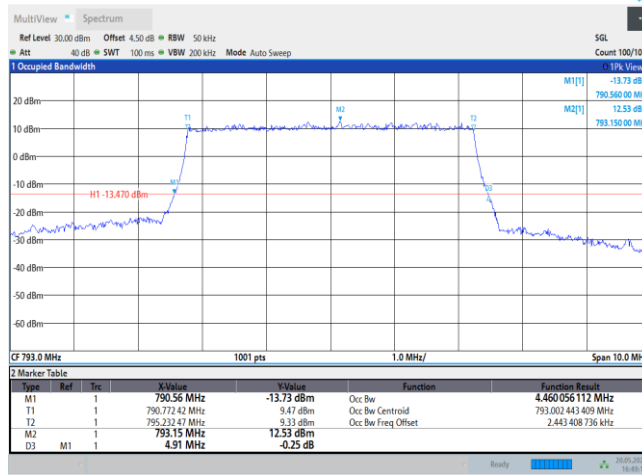
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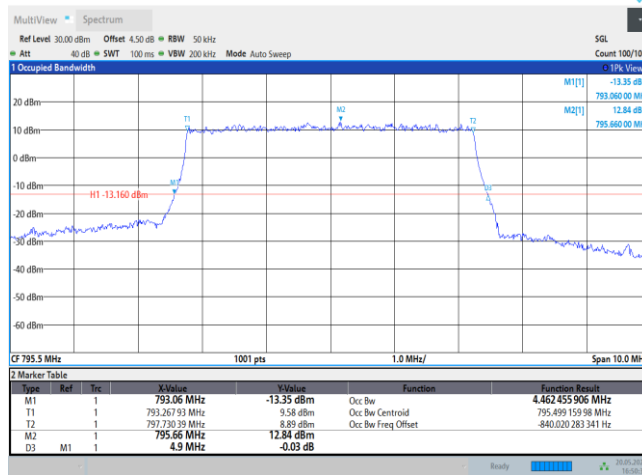
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Band14-5MHz-16QAM-23355-25RB#0



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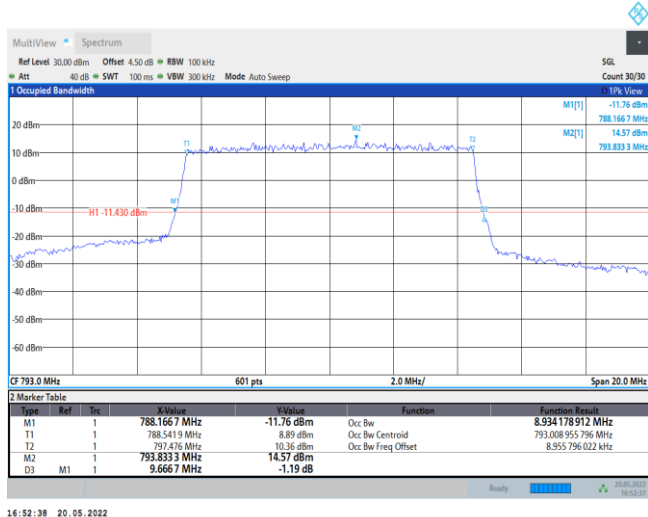


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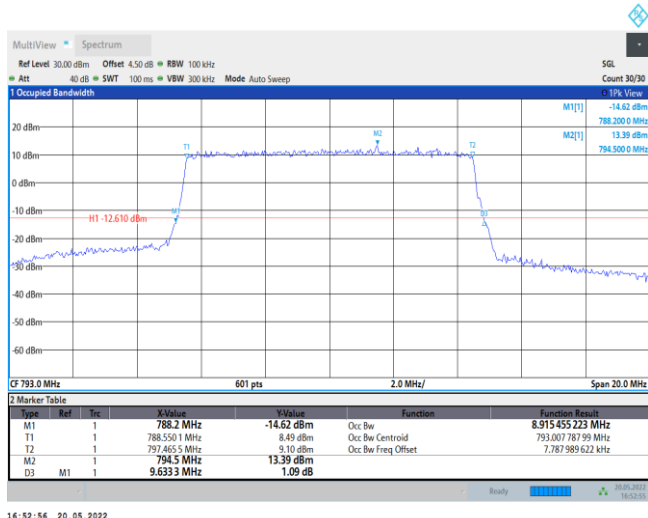
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Band14-10MHz-16QAM-23330-50RB#0



16:52:54 20.05.2022



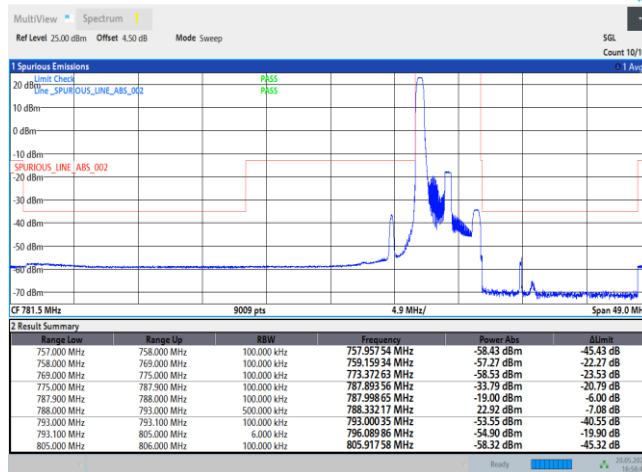
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## Band Edge

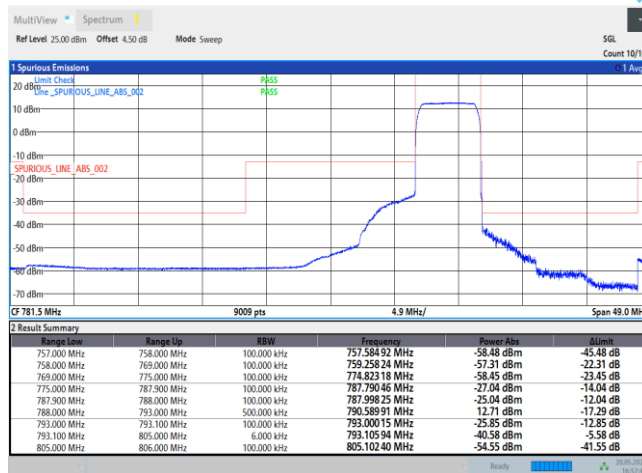
## Test Graphs

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



16:56:41 20.05.2022

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



16:57:48 20.05.2022



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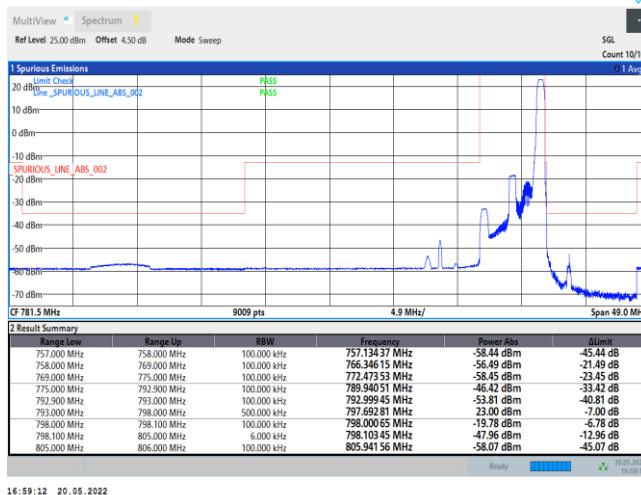
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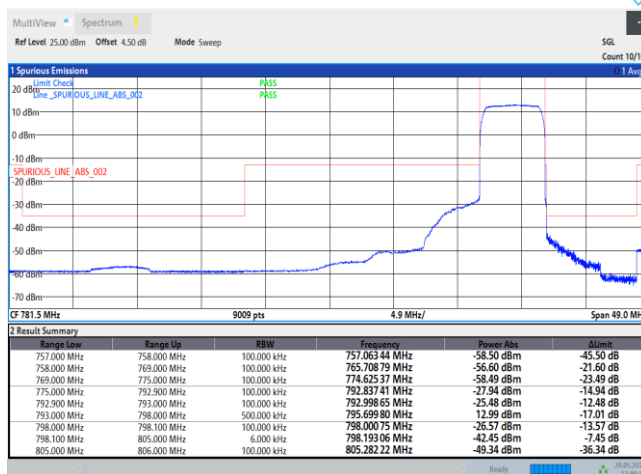


Band14-5MHz-QPSK-23355-1RB#24



16:59:12 20.05.2022

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



17:00:18 20.05.2022

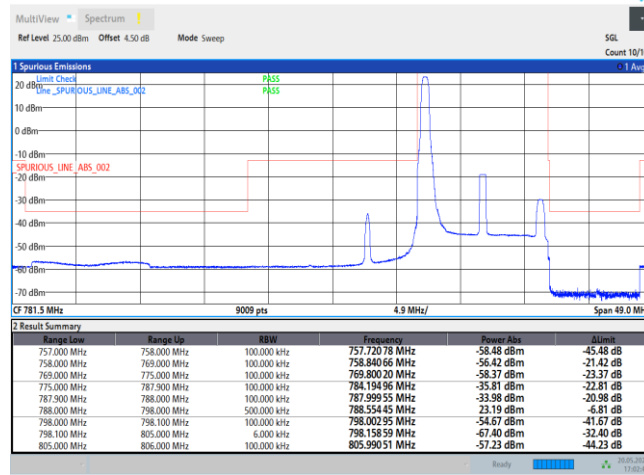


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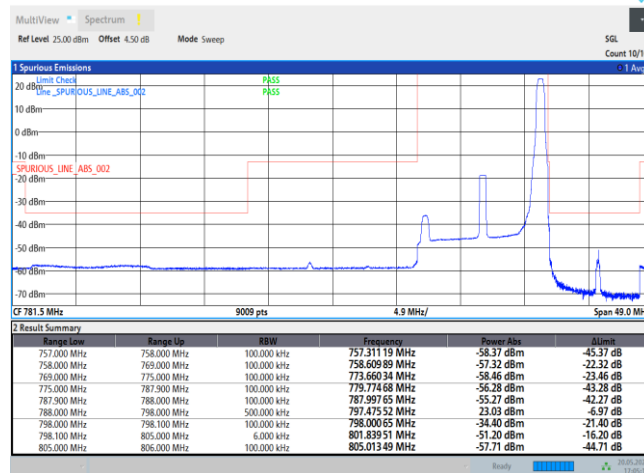
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Band14-10MHz-QPSK-23330-1RB#0



17:02:48 20.05.2022

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



17:05:12 20.05.2022

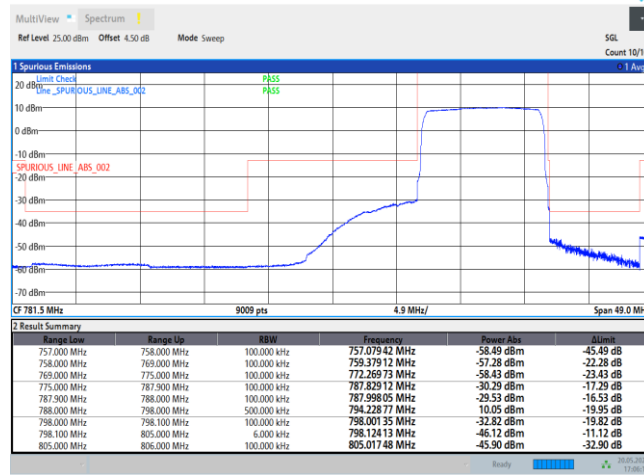


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Band14-10MHz-QPSK-23330-50RB#0



17:06:19 20.05.2022



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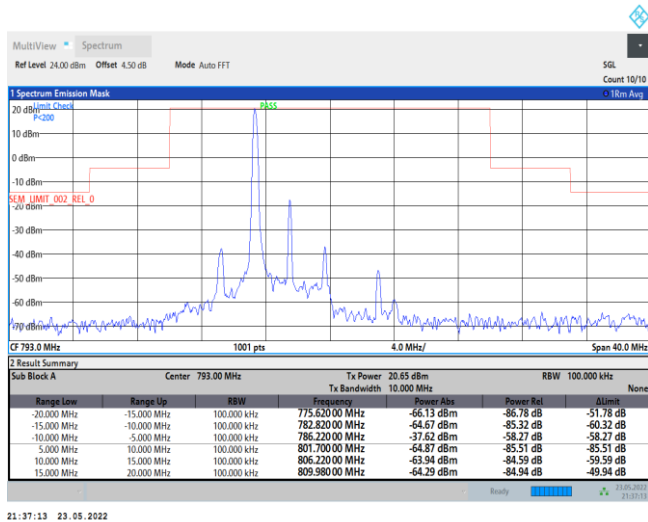
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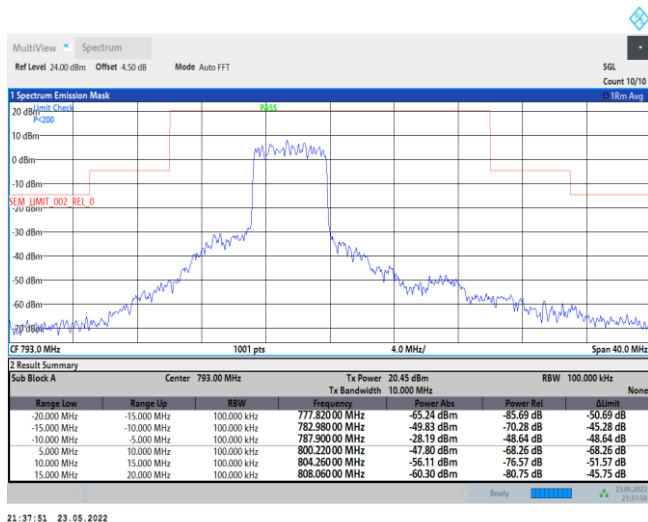
# Emission Mask

## Test Graphs

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



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

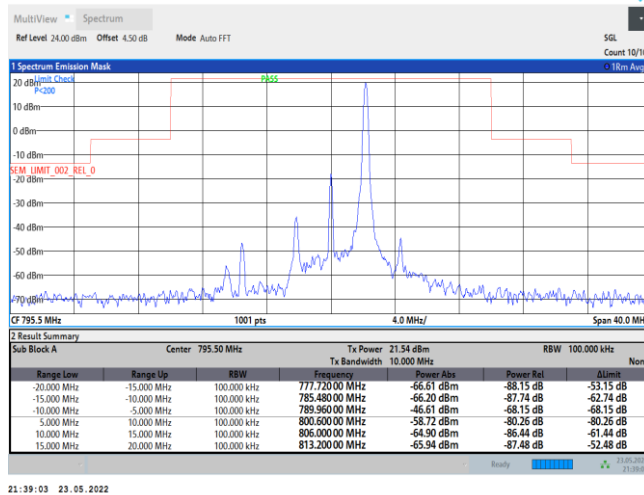


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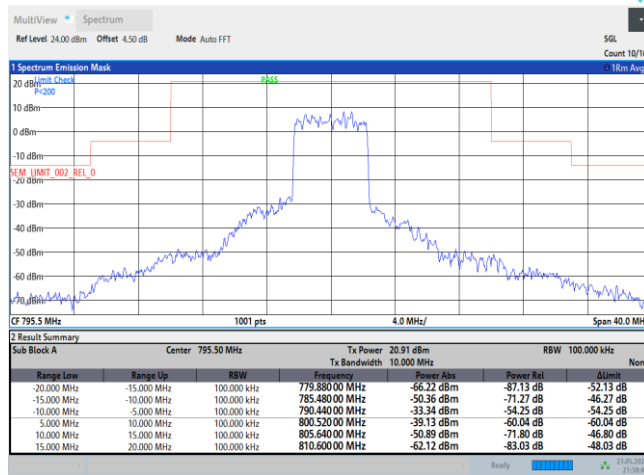
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Band14-5MHz-QPSK-23355-1RB#24



21:39:03 23.05.2022

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



21:38:43 23.05.2022

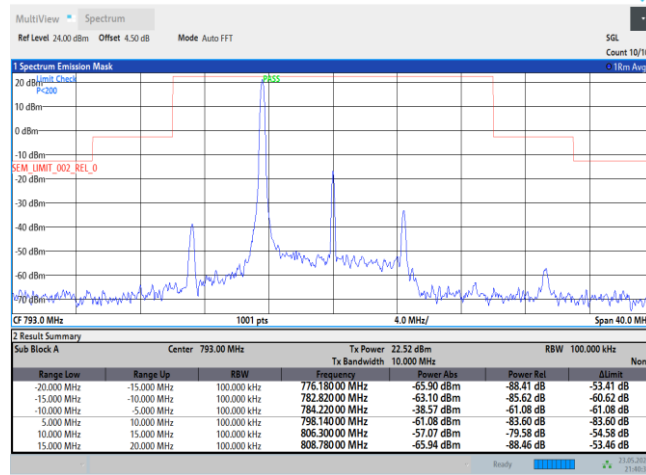


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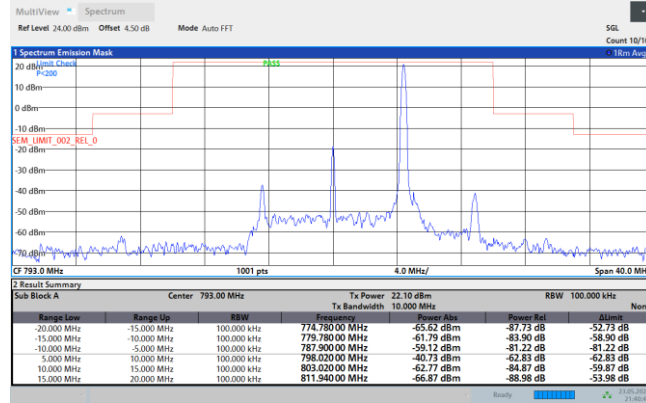


Band14-10MHz-QPSK-23330-1RB#0



21:40:33 23.05.2022

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



21:40:50 23.05.2022

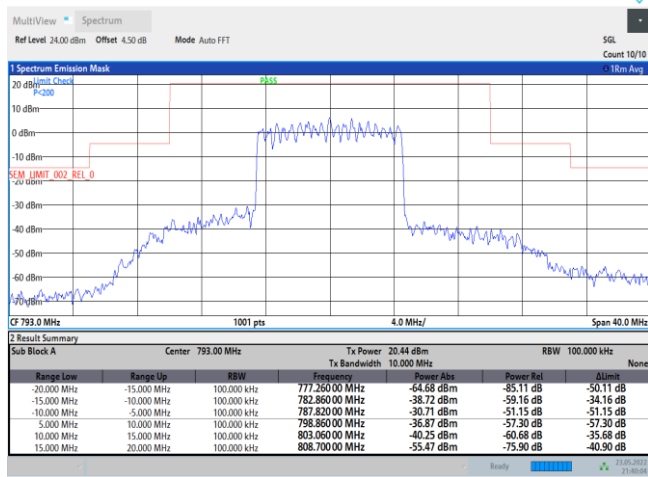


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21:40:04 23.05.2022

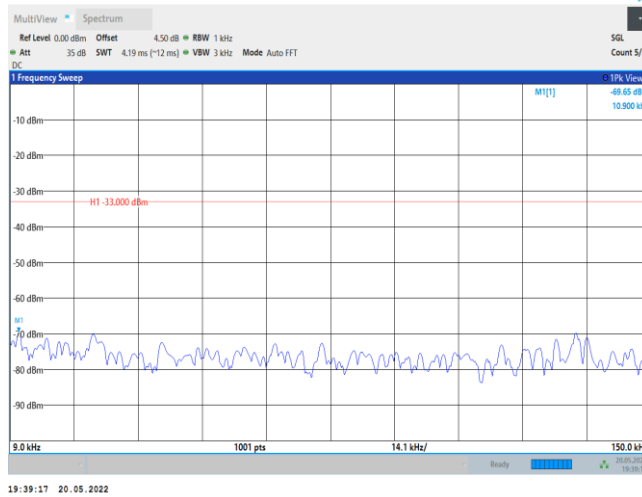


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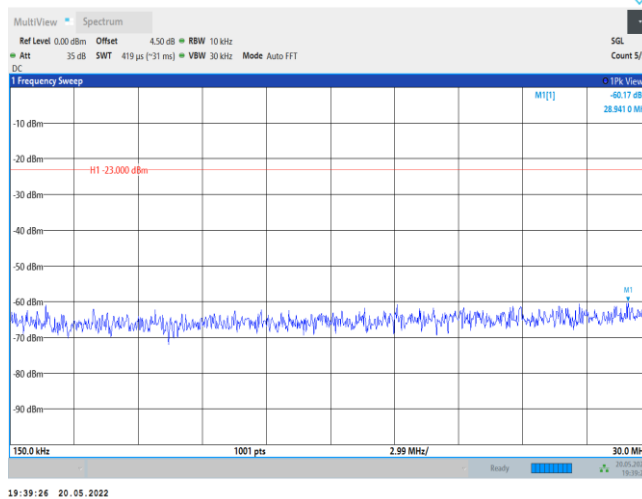
**Conducted Spurious Emission**

**Test Graphs**

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



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

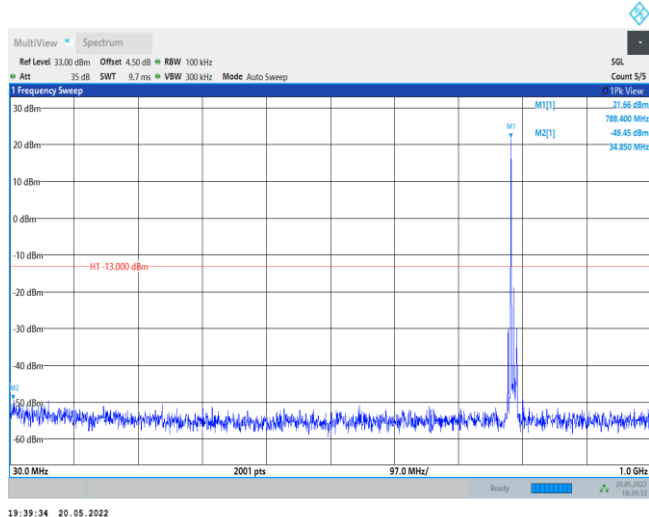


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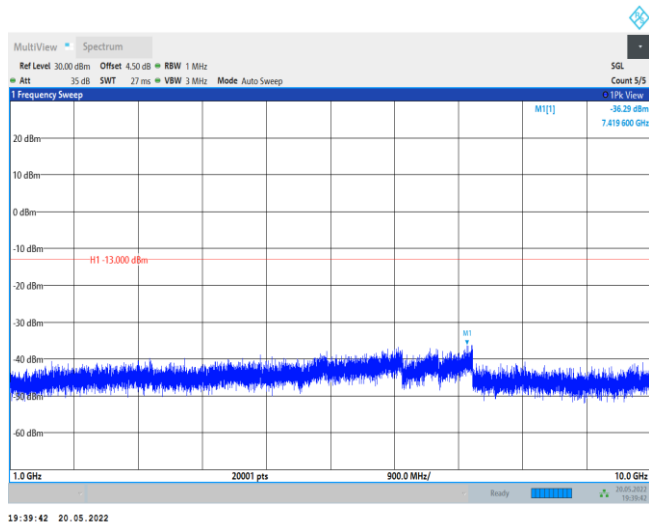
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



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



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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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	53.48	-118.17	-64.69	-40.00	24.69	142	62	Horizontal
2	2365.7143	70.62	-115.30	-44.68	-13.00	31.68	263	360	Horizontal
3	3154.3600	52.19	-112.15	-59.96	-13.00	46.96	145	72	Horizontal
4	3942.9500	52.21	-110.81	-58.60	-13.00	45.60	148	33	Horizontal
5	4731.5400	48.95	-108.90	-59.95	-13.00	46.95	263	62	Horizontal
6	5520.1300	48.28	-107.49	-59.21	-13.00	46.21	268	226	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1800	52.46	-118.17	-65.71	-40.00	25.71	146	81	Vertical
2	2365.7143	60.02	-115.30	-55.28	-13.00	42.28	263	8	Vertical
3	3154.3600	50.77	-112.15	-61.38	-13.00	48.38	251	119	Vertical
4	3942.9500	53.08	-110.81	-57.73	-13.00	44.73	174	42	Vertical
5	4731.5400	50.21	-108.90	-58.69	-13.00	45.69	186	216	Vertical
6	5520.1300	49.41	-107.49	-58.08	-13.00	45.08	265	357	Vertical



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**Test Band = LTE Band14\_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	1576.6800	53.83	-118.17	-64.34	-40.00	24.34	142	51	Horizontal
2	2365.0200	72.43	-115.30	-42.87	-13.00	29.87	286	360	Horizontal
3	3153.3600	51.34	-112.16	-60.82	-13.00	47.82	256	332	Horizontal
4	3941.7000	53.53	-110.81	-57.28	-13.00	44.28	254	148	Horizontal
5	4730.0400	48.55	-108.90	-60.35	-13.00	47.35	263	110	Horizontal
6	5518.3800	47.89	-107.49	-59.60	-13.00	46.60	241	32	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.6800	52.38	-118.17	-65.79	-40.00	25.79	149	339	Vertical
2	2365.0200	58.40	-115.30	-56.90	-13.00	43.90	265	2	Vertical
3	3153.3600	51.15	-112.16	-61.01	-13.00	48.01	306	282	Vertical
4	3941.7000	53.91	-110.81	-56.90	-13.00	43.90	254	14	Vertical
5	4730.0400	49.42	-108.90	-59.48	-13.00	46.48	185	329	Vertical
6	5518.3800	48.00	-107.49	-59.49	-13.00	46.49	241	39	Vertical



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Test Band = LTE Band14\_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	53.74	-118.17	-64.43	-40.00	24.43	142	51	Horizontal
2	2372.5200	69.93	-115.30	-45.37	-13.00	32.37	263	158	Horizontal
3	3163.3600	51.31	-112.10	-60.79	-13.00	47.79	295	330	Horizontal
4	3954.2000	51.56	-110.78	-59.22	-13.00	46.22	284	13	Horizontal
5	4745.0400	49.33	-108.84	-59.51	-13.00	46.51	175	100	Horizontal
6	5535.8800	47.44	-107.50	-60.06	-13.00	47.06	263	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.6800	55.55	-118.17	-62.62	-40.00	22.62	142	87	Vertical
2	2372.5200	60.51	-115.30	-54.79	-13.00	41.79	163	59	Vertical
3	3163.3600	51.28	-112.10	-60.82	-13.00	47.82	296	0	Vertical
4	3954.2000	52.06	-110.78	-58.72	-13.00	45.72	251	50	Vertical
5	4745.0400	48.34	-108.84	-60.50	-13.00	47.50	144	39	Vertical
6	5535.8800	49.20	-107.50	-58.30	-13.00	45.30	188	6	Vertical



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**Test Band = LTE Band14\_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	52.74	-118.18	-65.44	-40.00	25.44	185	164	Horizontal
2	2380	69.81	-115.29	-45.48	-13.00	32.48	152	184	Horizontal
3	3173.3600	50.18	-112.03	-61.85	-13.00	48.85	254	118	Horizontal
4	3966.7000	49.44	-110.75	-61.31	-13.00	48.31	196	12	Horizontal
5	4760.0400	48.88	-108.76	-59.88	-13.00	46.88	255	22	Horizontal
6	5553.3800	48.18	-107.50	-59.32	-13.00	46.32	144	300	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.6800	52.54	-118.18	-65.64	-40.00	25.64	142	16	Vertical
2	2380	57.84	-115.29	-57.45	-13.00	44.45	163	272	Vertical
3	3173.3600	51.43	-112.03	-60.60	-13.00	47.60	296	1	Vertical
4	3966.7000	51.20	-110.75	-59.55	-13.00	46.55	263	1	Vertical
5	4760.0400	48.65	-108.76	-60.11	-13.00	47.11	254	60	Vertical
6	5553.3800	47.81	-107.50	-59.69	-13.00	46.69	148	292	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	0.20	0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	0.60	0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-0.80	-0.001009	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-0.60	-0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-0.20	-0.000252	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-1.40	-0.001765	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	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	20	0.60	0.000757	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	1.20	0.001513	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-1.60	-0.002018	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-1.80	-0.002270	PASS

The End



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