

Report No.: SEWM2304000122RG01

Rev.: 01

Page: 1 of 49

# Appendix B.13

## LTE Band 30



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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
Band30	5MHz	QPSK	27685	1RB#0	23.16	17.46	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.09	17.39	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.13	17.43	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.2	16.5	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.26	17.56	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.26	17.56	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.98	17.28	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.06	16.36	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.41	17.71	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.01	17.31	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.89	17.19	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.07	16.37	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.52	16.82	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.18	16.48	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.06	16.36	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.16	15.46	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.4	16.7	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.25	16.55	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.11	16.41	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.05	15.35	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.07	16.37	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.19	16.49	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.08	16.38	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.12	15.42	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.39	15.69	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.3	15.6	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.33	15.63	23.98	PASS
Band30	5MHz	64QAM	27685	25RB#0	20.18	14.48	23.98	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 3 of 49

Band30	5MHz	64QAM	27710	1RB#0	21.37	15.67	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.32	15.62	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	21.15	15.45	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	20.07	14.37	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.26	15.56	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.38	15.68	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	21.14	15.44	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	20.1	14.4	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	18.21	12.51	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	18.53	12.83	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	18.17	12.47	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	18.19	12.49	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	18.12	12.42	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	18.18	12.48	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.97	12.27	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	18.04	12.34	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	18.07	12.37	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.21	12.51	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.97	12.27	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	18.1	12.4	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.15	17.45	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.14	17.44	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.99	17.29	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	22.15	16.45	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.52	16.82	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.23	16.53	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.1	16.4	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	21.1	15.4	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.45	15.75	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.4	15.7	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	21.18	15.48	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	20.1	14.4	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	18.16	12.46	23.98	PASS



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 4 of 49

Band30	10MHz	256QAM	27710	1RB#24	18.29	12.59	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	18.07	12.37	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	18.13	12.43	23.98	PASS



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Rev.: 01

Page: 5 of 49

## EIRP Density Result

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	24.4	18.7	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	24.45	18.75	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	24.35	18.65	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	24.08	18.38	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	24.00	18.3	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	24.04	18.34	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	23.92	18.22	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	24.10	18.4	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	24.34	18.64	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	24.12	18.42	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#12	24.06	18.36	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	24.43	18.73	23.98	PASS



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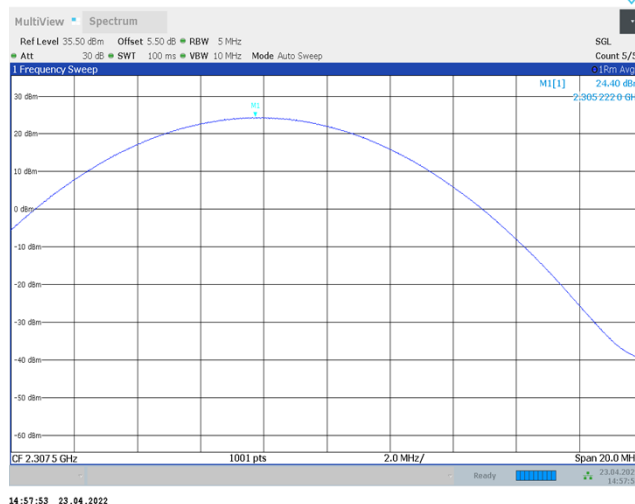
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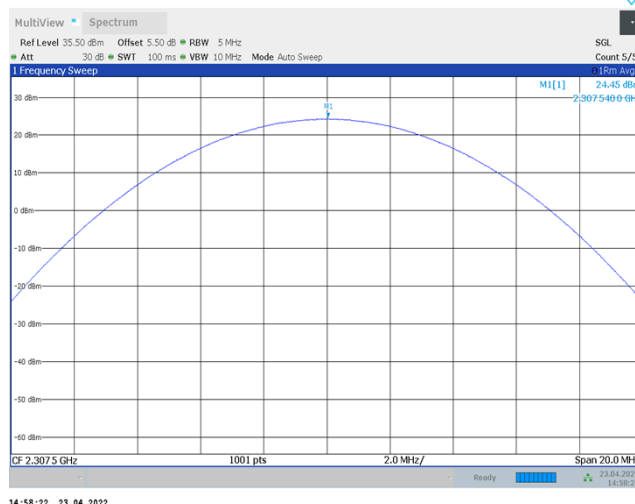


## Test plots

Band30-5MHz-QPSK-27685-1RB#0



Band30-5MHz-QPSK-27685-1RB#12



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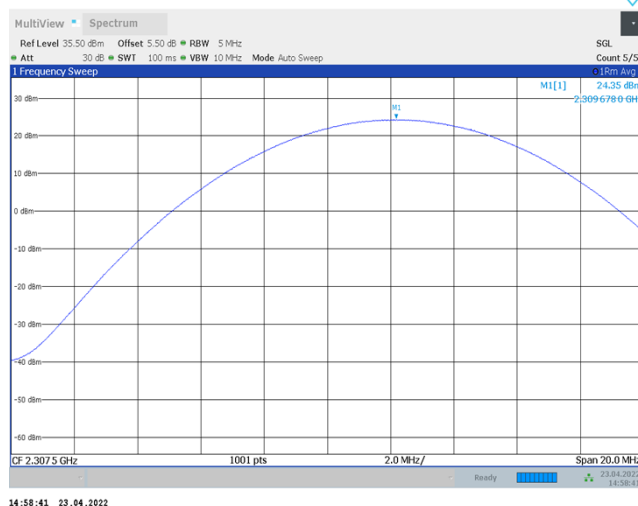
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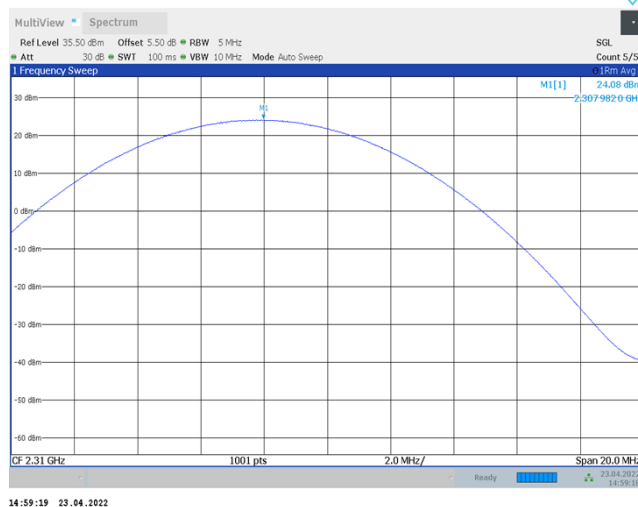
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Page: 7 of 49

### Band30-5MHz-QPSK-27685-1RB#24



### Band30-5MHz-QPSK -27710-1RB#0



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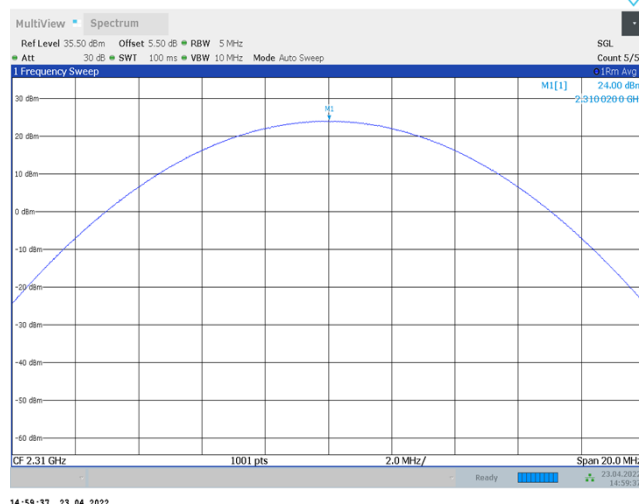
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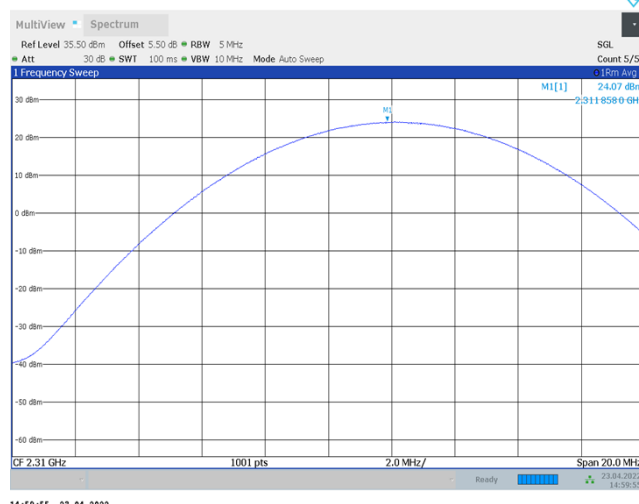
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### Band30-5MHz-QPSK -27710-1RB#12



### Band30-5MHz-QPSK -27710-1RB#24



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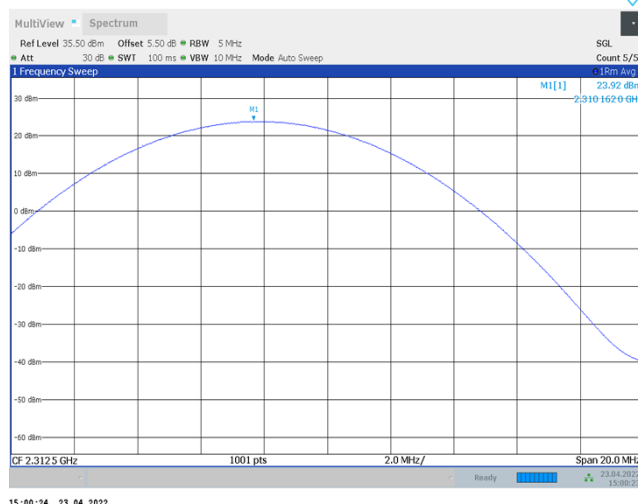


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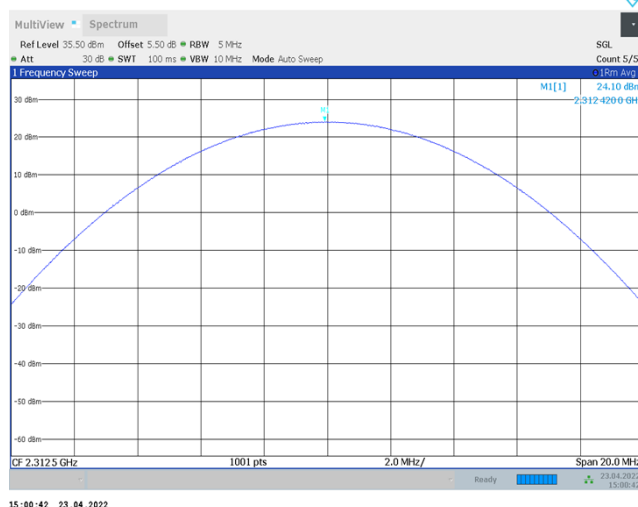
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### Band30-5MHz-QPSK -27735-1RB#0



### Band30-5MHz-QPSK-27735-1RB#12



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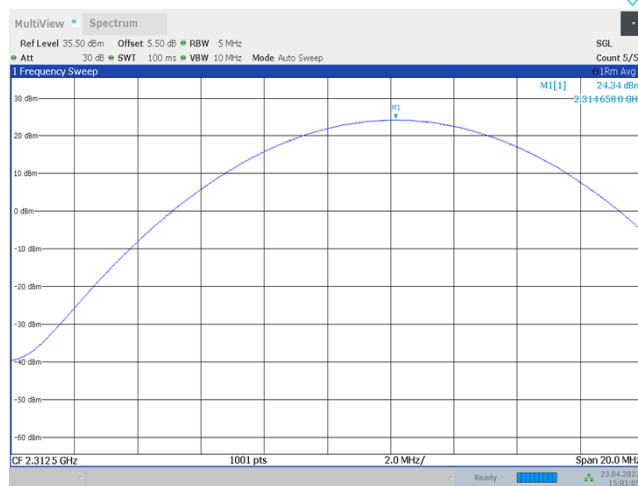
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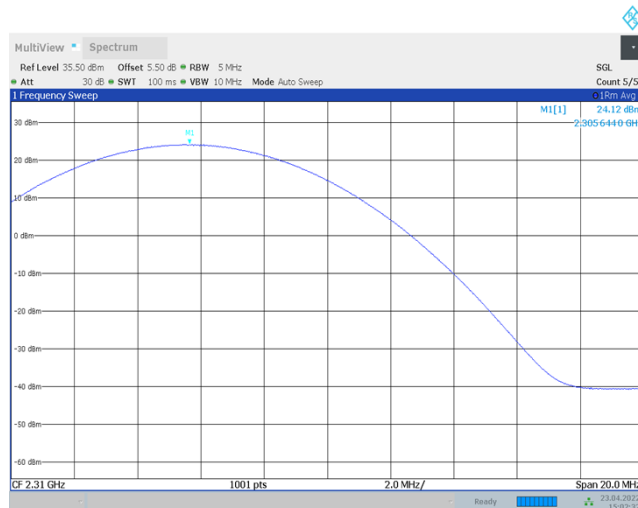
Page: 10 of 49

### Band30-5MHz-QPSK -27735-1RB#24



15:01:05 23.04.2022

### Band30-10MHz-QPSK-27710-1RB#0



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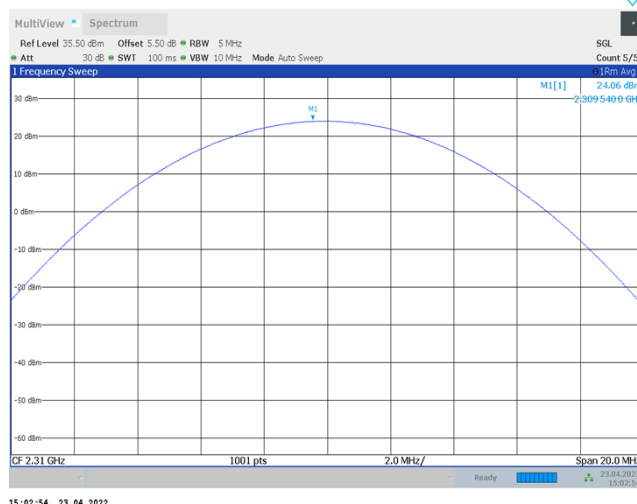
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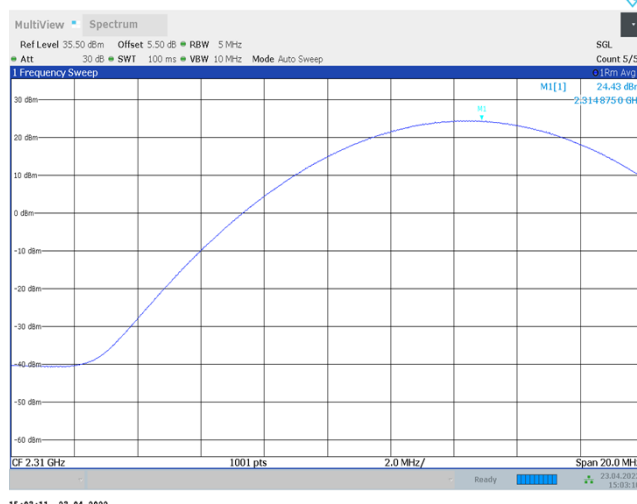
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### Band30-10MHz-QPSK-27710-1RB#24



### Band30-10MHz-QPSK-27710-1RB#49



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Rev.: 01  
Page: 12 of 49

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	4.70	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.88	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.28	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.54	13	PASS



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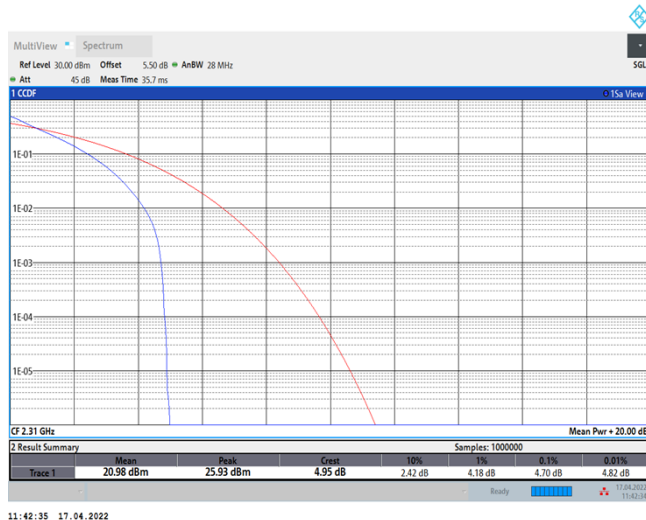
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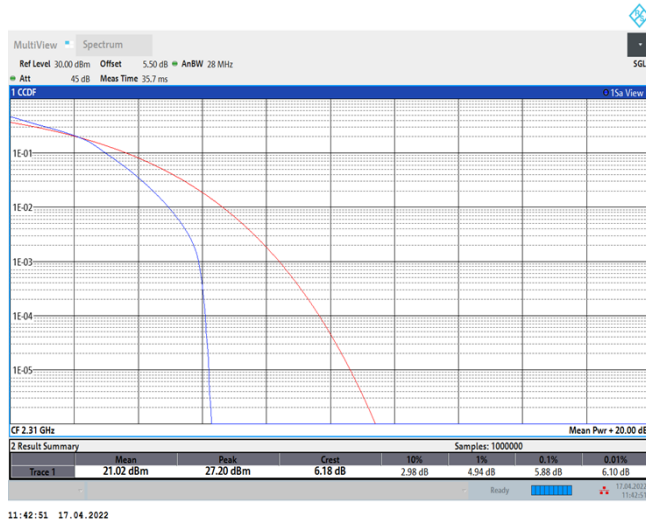
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## Test Graphs

Band30-10MHz-QPSK-27710-50RB#0



Band30-10MHz-16QAM-27710-50RB#0



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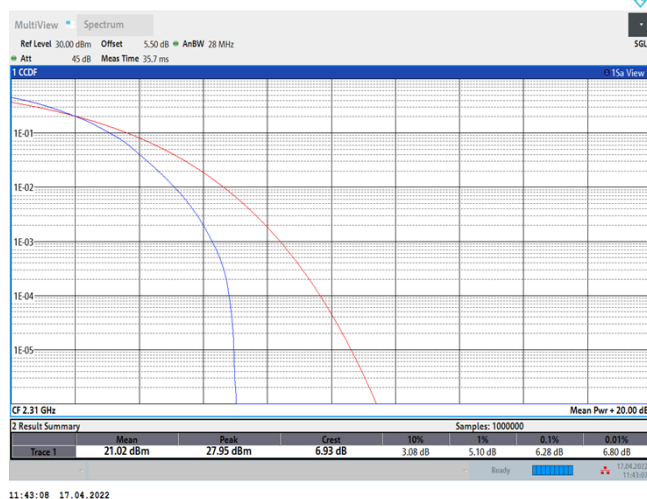
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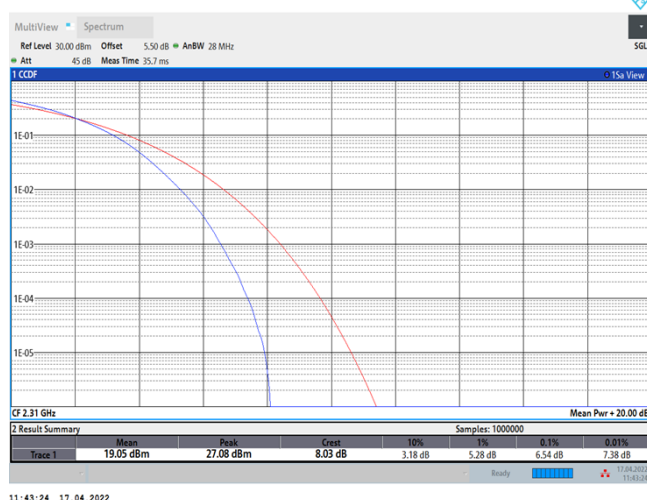
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### Band30-10MHz-64QAM-27710-50RB#0



### Band30-10MHz-256QAM-27710-50RB#0



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Rev.: 01

Page: 15 of 49

## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band30	10MHz	QPSK	27710	50RB#0	PASS	PASS
Band30	10MHz	16QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	64QAM	27710	50RB#0	PASS	PASS
Band30	10MHz	256QAM	27710	50RB#0	PASS	PASS



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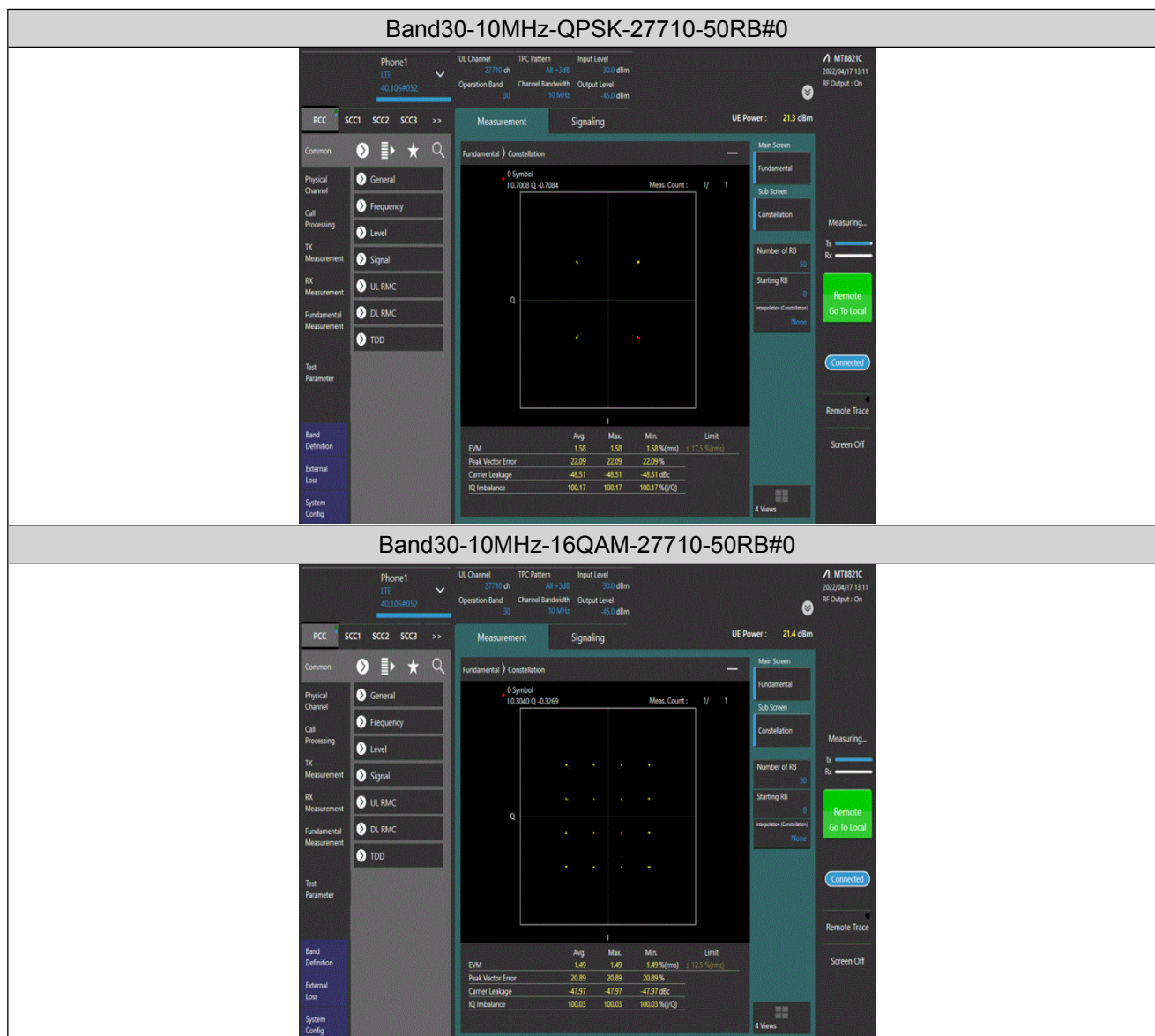
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## Test Graphs



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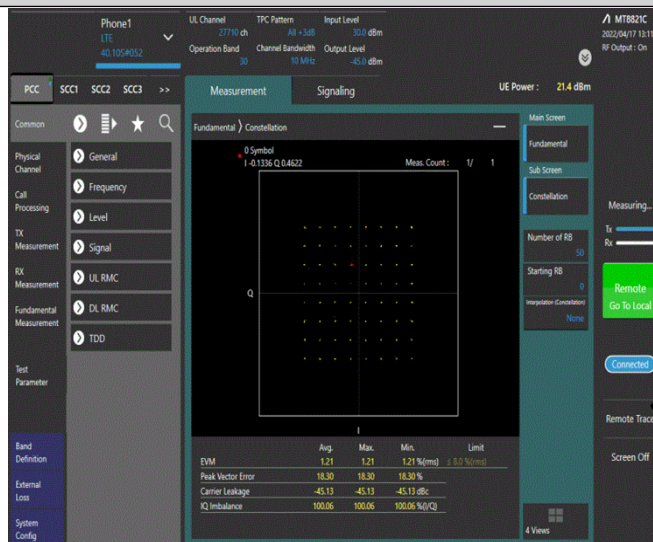
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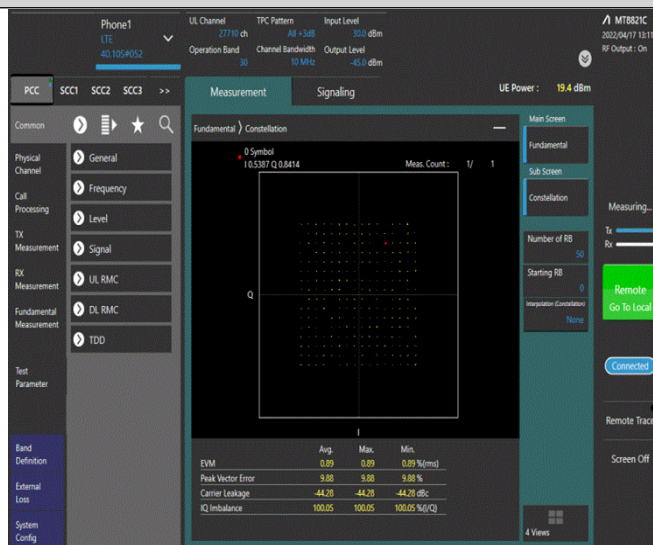
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### Band30-10MHz-64QAM-27710-50RB#0



### Band30-10MHz-256QAM-27710-50RB#0



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Page: 18 of 49

## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.504	4.78	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.512	4.81	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.507	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.507	4.80	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.516	4.80	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.51	4.79	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.51	4.78	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.506	4.79	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.506	4.77	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.507	4.81	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.512	1.34	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.508	4.79	PASS
Band30	10MHz	QPSK	27710	50RB#0	9.008	9.60	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.997	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.993	9.53	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.997	9.57	PASS



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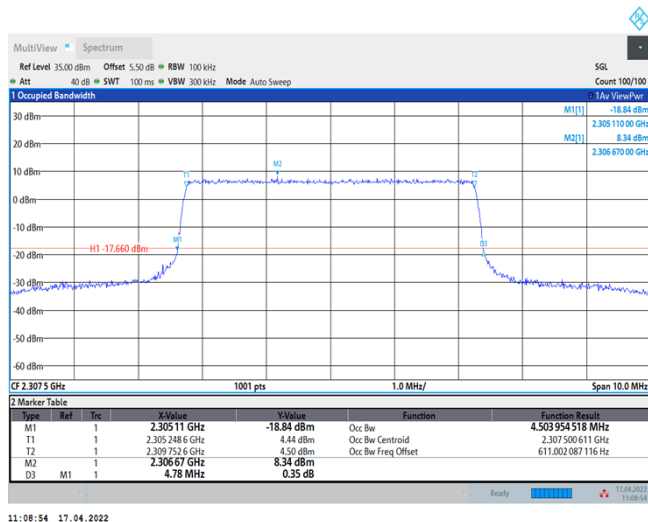
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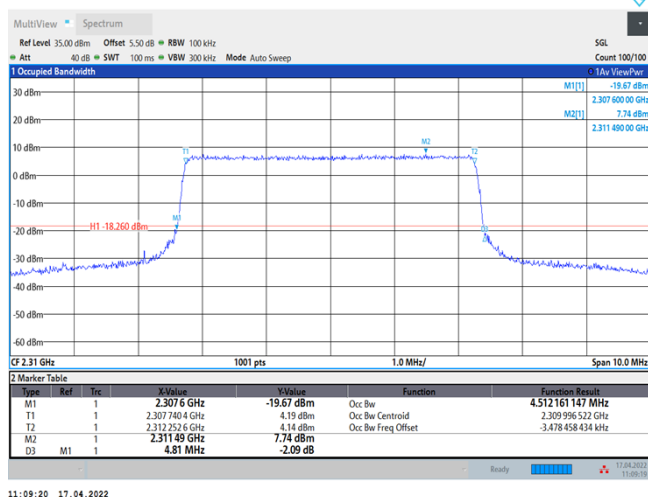
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### Test Graphs

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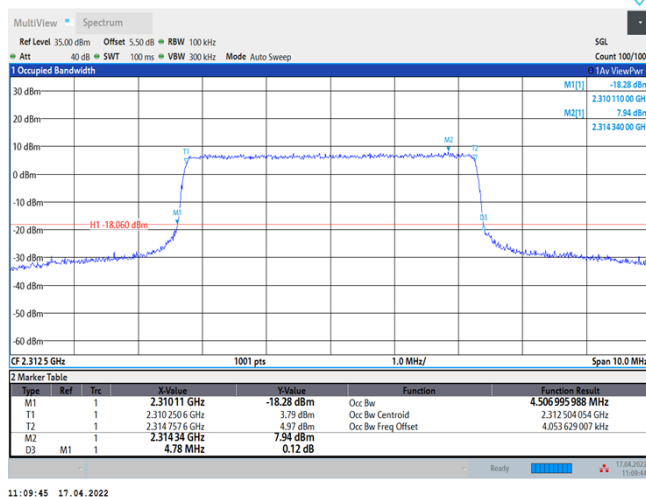
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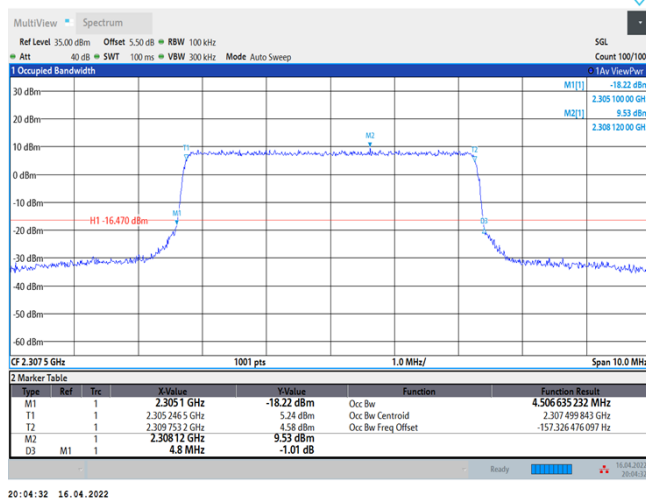
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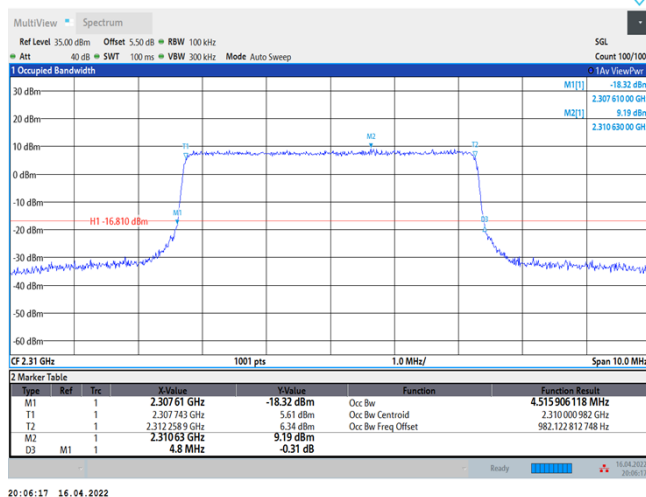


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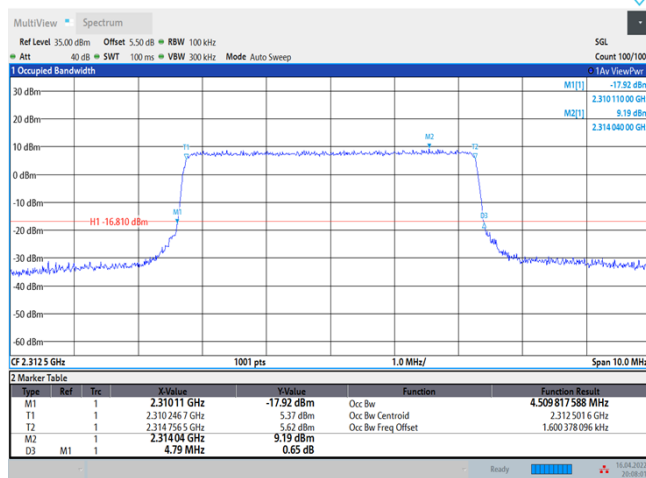
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### Band30-5MHz-16QAM-27710-25RB#0



20:06:17 16.04.2022

### Band30-5MHz-16QAM-27735-25RB#0



20:08:01 16.04.2022



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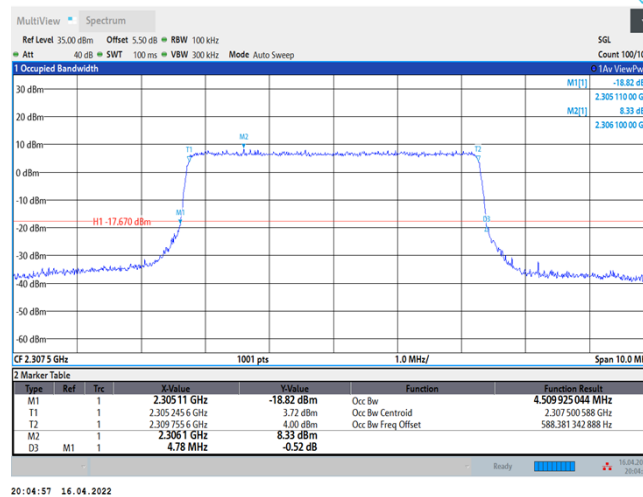
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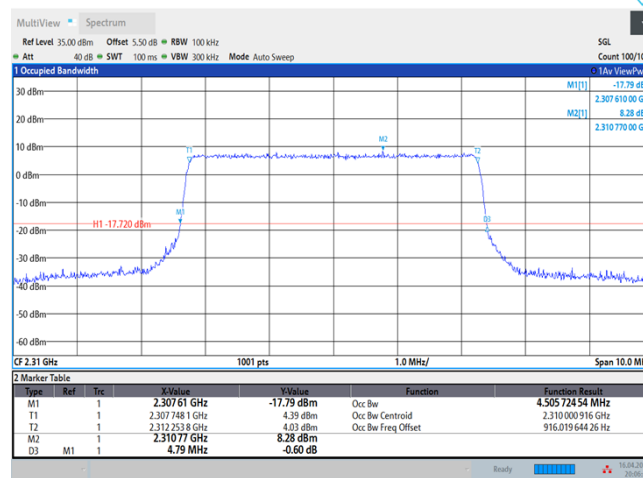
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### Band30-5MHz-64QAM-27685-25RB#0



20:04:57 16.04.2022

### Band30-5MHz-64QAM-27710-25RB#0



20:06:42 16.04.2022



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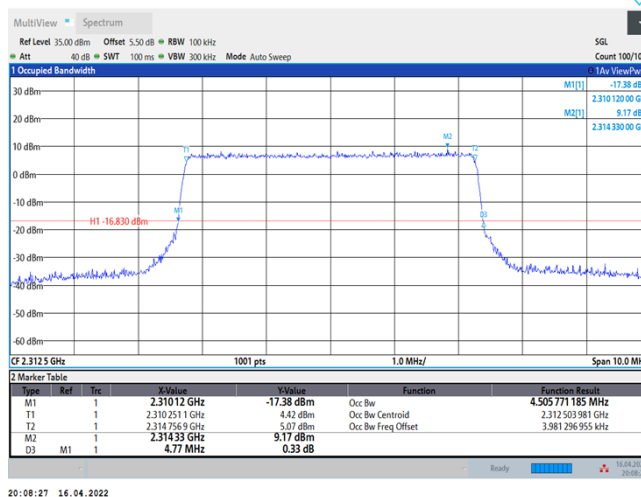
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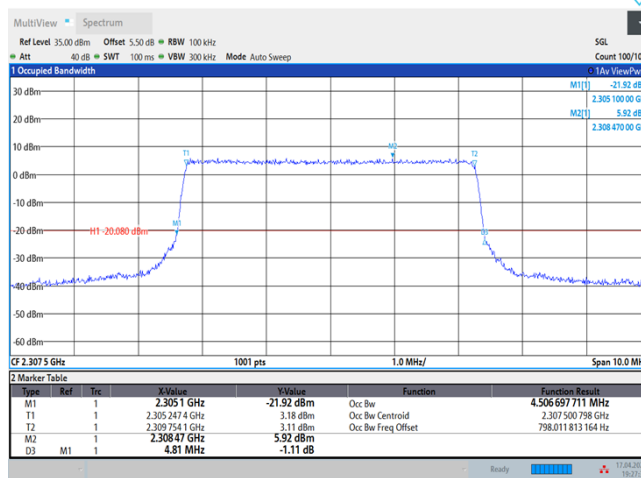
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20:08:27 16.04.2022

### Band30-5MHz-256QAM-27685-25RB#0



19:27:40 17.04.2022



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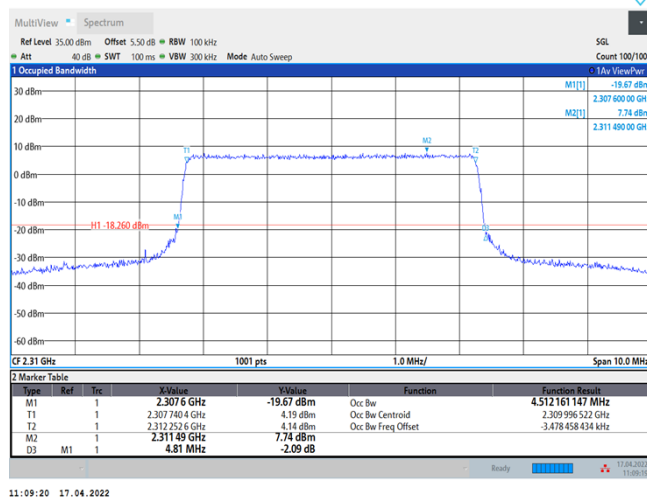
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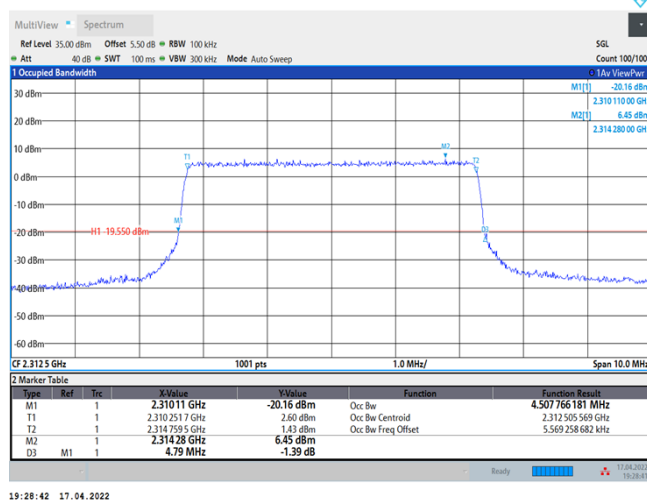
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### Band30-5MHz-256QAM-27710-25RB#0



### Band30-5MHz-256QAM-27735-25RB#0



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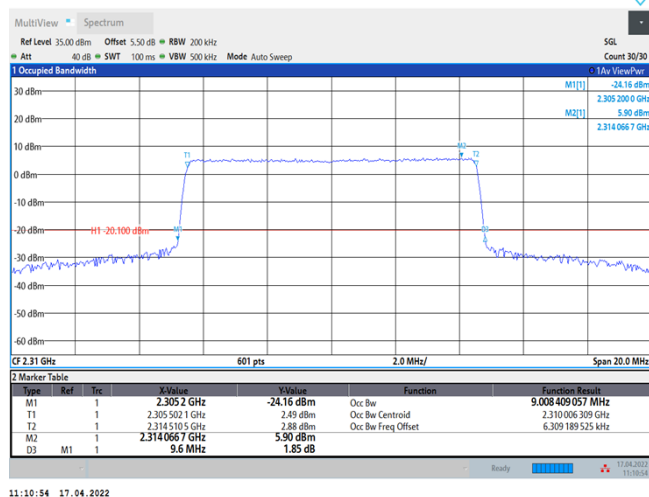
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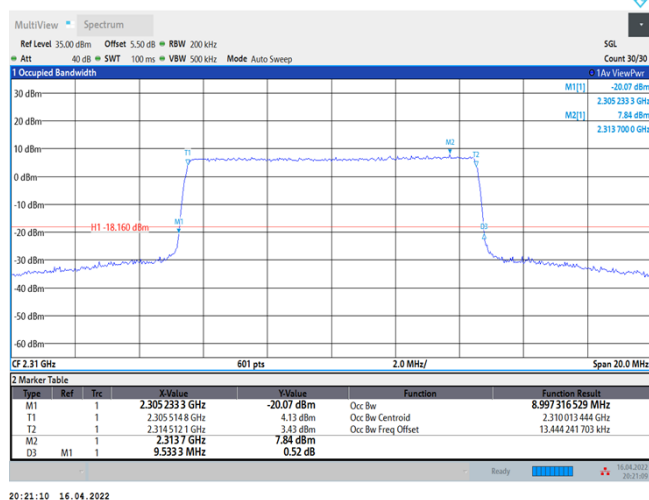
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### Band30-10MHz-QPSK-27710-50RB#0



### Band30-10MHz-16QAM-27710-50RB#0



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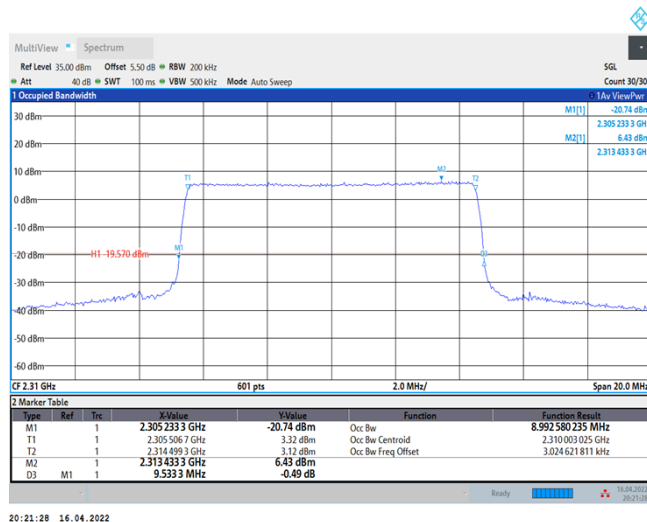
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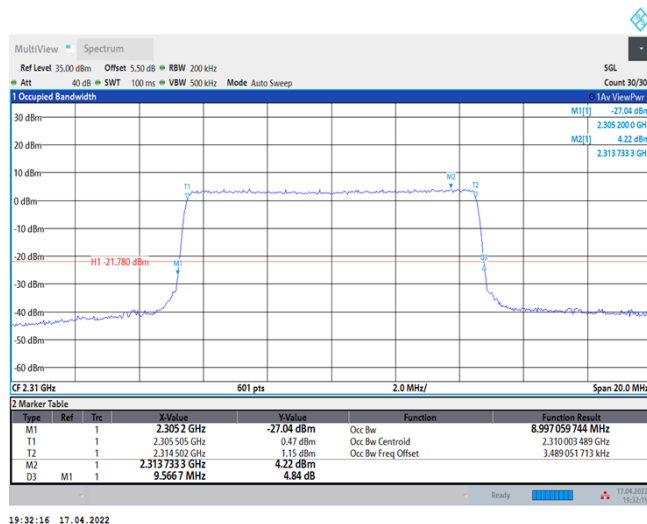
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## Band30-10MHz-64QAM-27710-50RB#0



Band30-10MHz-256QAM-27710-50RB#0



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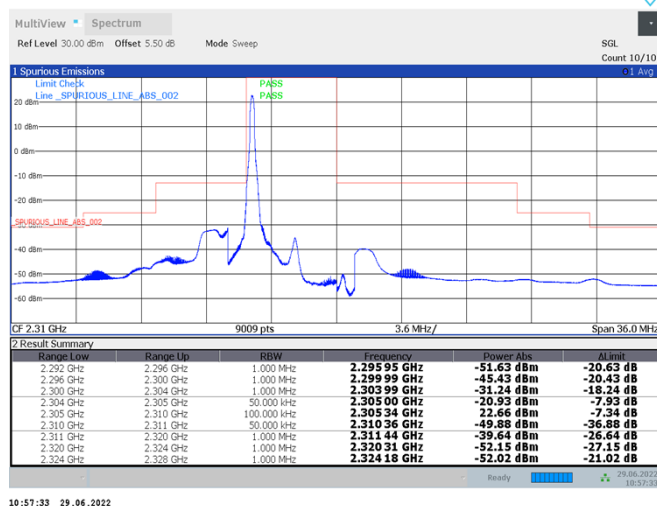
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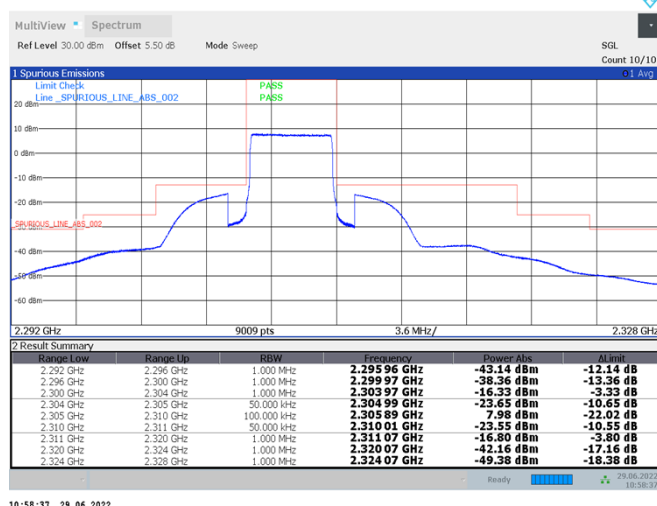
### Band Edge

### Test Graphs

#### Band30-5MHz-QPSK-27685-1RB#0



#### Band30-5MHz-QPSK-27685-25RB#0



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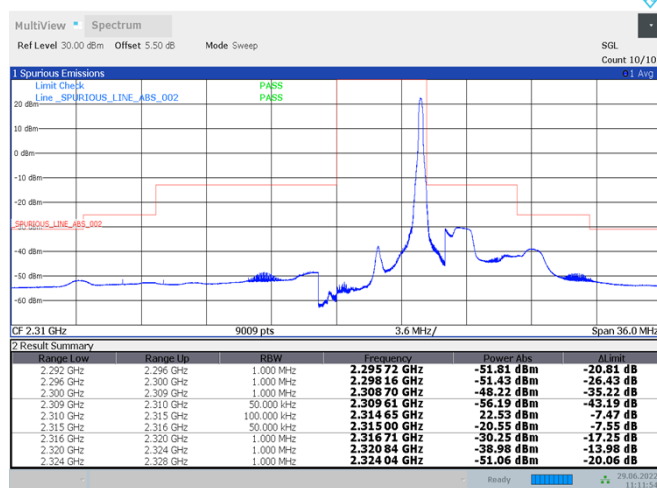
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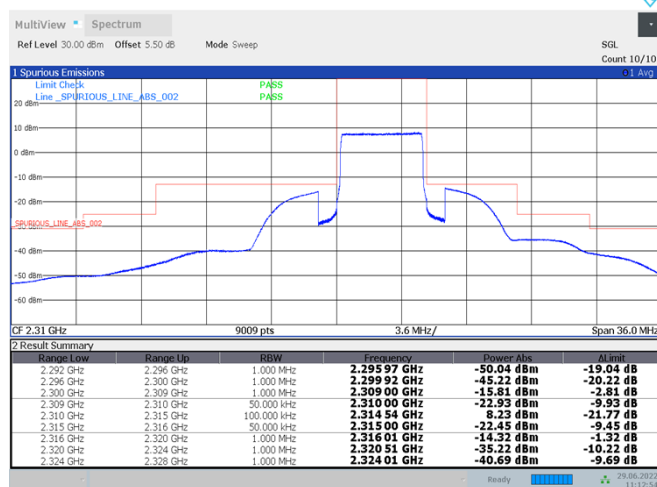
Page: 28 of 49

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11:11:54 29.06.2022

### Band30-5MHz-QPSK-27735-25RB#0



11:12:54 29.06.2022



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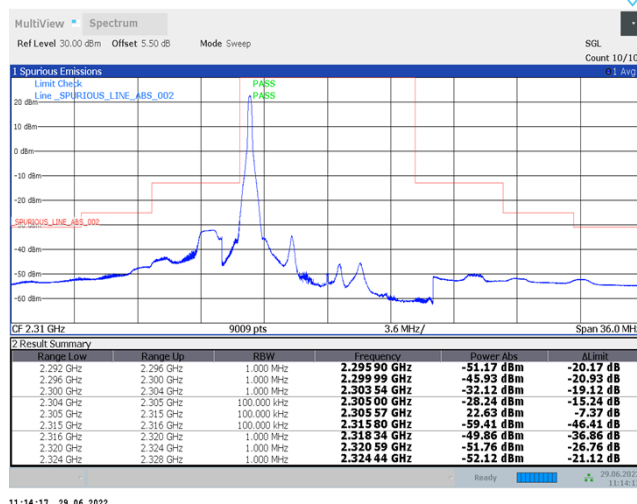
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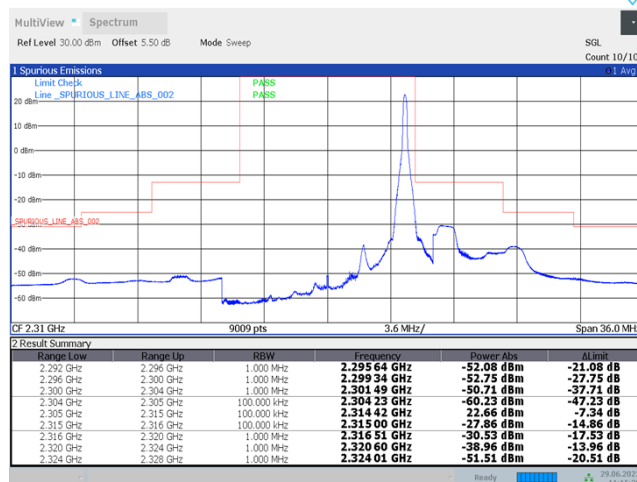
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### Band30-10MHz-QPSK-27710-1RB#0



11:14:17 29.06.2022

### Band30-10MHz-QPSK-27710-1RB#49



11:15:30 29.06.2022



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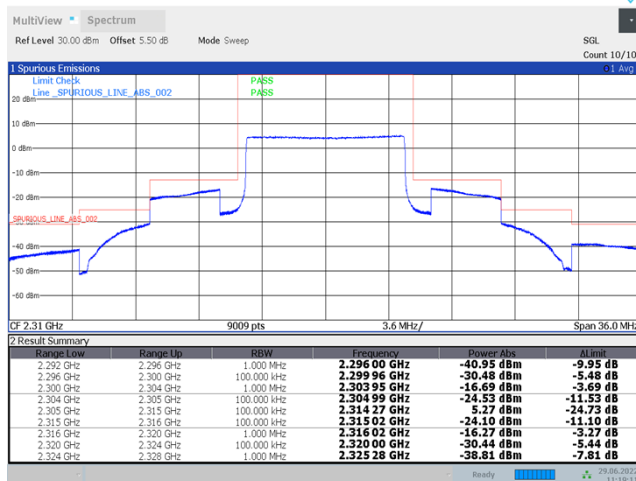
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## Band30-10MHz-QPSK-27710-50RB#0



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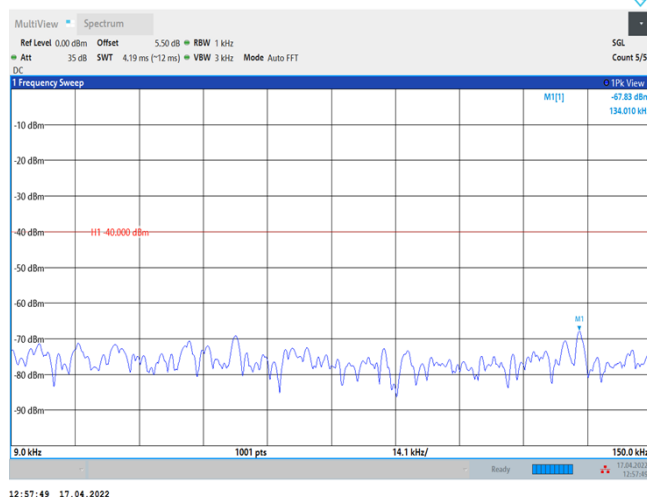
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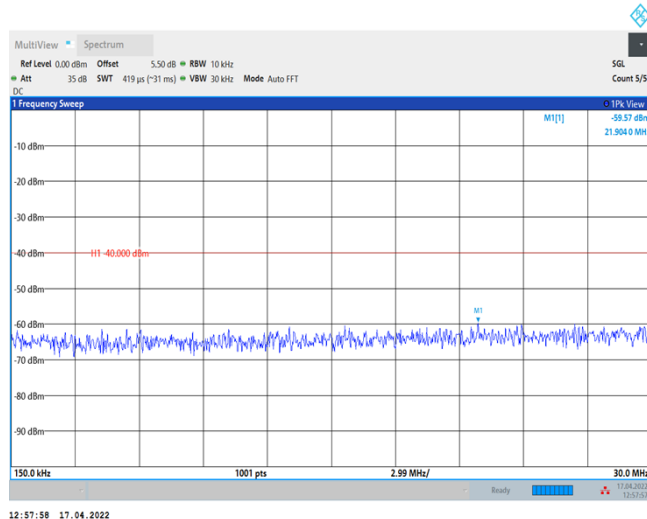
### Conducted Spurious Emission

#### Test Graphs

Band30-10MHz-QPSK-27710-1RB#0-Range1:0.009~0.15MHz



Band30-10MHz-QPSK-27710-1RB#0-Range2:0.15~30MHz



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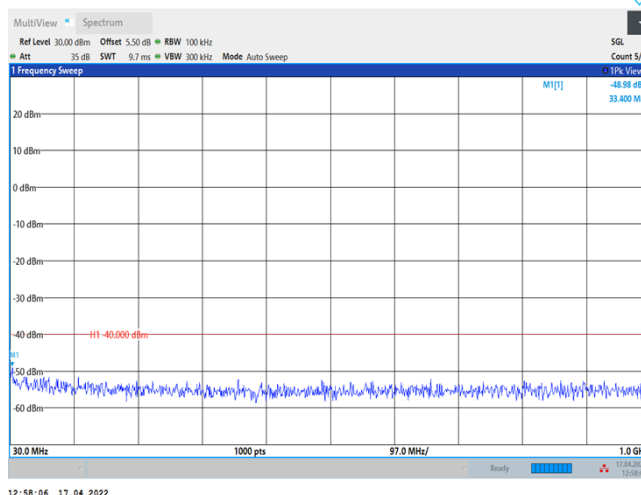
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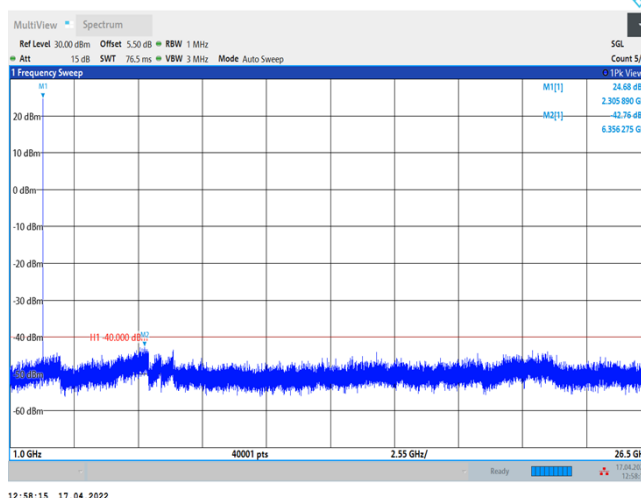
Rev.: 01

Page: 32 of 49

### Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



### Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26500MHz



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 33 of 49

## Field Strength of Spurious Radiation

**Test Band = LTE Band 30 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	4611.18	49.73	-108.05	-58.32	-40.00	18.32	251	15	Horizontal
2	6916.77	49.06	-101.68	-52.62	-40.00	12.62	142	1	Horizontal
3	9222.36	47.08	-95.08	-48.00	-40.00	8.00	263	15	Horizontal
4	11527.95	41.44	-91.44	-50.00	-40.00	10.00	241	224	Horizontal
5	13833.54	42.12	-90.03	-47.91	-40.00	7.91	175	357	Horizontal
6	16139.13	42.23	-90.60	-48.37	-40.00	8.37	264	200	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	53.59	-108.05	-54.46	-40.00	14.46	163	0	Vertical
2	6916.77	47.31	-101.68	-54.37	-40.00	14.37	252	1	Vertical
3	9222.36	47.22	-95.08	-47.86	-40.00	7.86	241	82	Vertical
4	11527.95	40.97	-91.44	-50.47	-40.00	10.47	175	163	Vertical
5	13833.54	42.57	-90.03	-47.46	-40.00	7.46	263	70	Vertical
6	16139.13	41.55	-90.60	-49.05	-40.00	9.05	241	151	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 34 of 49

**Test Band = LTE Band 30 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	4610.68	50.28	-108.05	-57.77	-40.00	17.77	263	118	Horizontal
2	6916.02	48.28	-101.68	-53.40	-40.00	13.40	241	5	Horizontal
3	9221.36	47.12	-95.08	-47.96	-40.00	7.96	176	315	Horizontal
4	11526.7	42.10	-91.44	-49.34	-40.00	9.34	263	96	Horizontal
5	13832.04	43.18	-90.05	-46.87	-40.00	6.87	251	2	Horizontal
6	16137.38	42.12	-90.62	-48.50	-40.00	8.50	178	27	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	52.19	-108.05	-55.86	-40.00	15.86	263	0	Vertical
2	6916.02	48.18	-101.68	-53.50	-40.00	13.50	251	4	Vertical
3	9221.36	47.37	-95.08	-47.71	-40.00	7.71	175	282	Vertical
4	11526.7	41.25	-91.44	-50.19	-40.00	10.19	262	338	Vertical
5	13832.04	42.69	-90.05	-47.36	-40.00	7.36	241	247	Vertical
6	16137.38	41.50	-90.62	-49.12	-40.00	9.12	178	282	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 35 of 49

**Test Band = LTE Band 30 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	4615.68	50.33	-108.03	-57.70	-40.00	17.70	263	164	Horizontal
2	6923.52	47.38	-101.68	-54.30	-40.00	14.30	251	245	Horizontal
3	9231.36	46.76	-95.08	-48.32	-40.00	8.32	142	188	Horizontal
4	11539.2	41.99	-91.51	-49.52	-40.00	9.52	263	188	Horizontal
5	13847.04	42.70	-89.92	-47.22	-40.00	7.22	294	326	Horizontal
6	16154.88	43.13	-90.46	-47.33	-40.00	7.33	176	268	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	52.65	-108.03	-55.38	-40.00	15.38	263	350	Vertical
2	6923.52	48.54	-101.68	-53.14	-40.00	13.14	251	167	Vertical
3	9231.36	47.47	-95.08	-47.61	-40.00	7.61	174	0	Vertical
4	11539.2	41.95	-91.51	-49.56	-40.00	9.56	186	84	Vertical
5	13847.04	42.49	-89.92	-47.43	-40.00	7.43	264	1	Vertical
6	16154.88	40.87	-90.46	-49.59	-40.00	9.59	178	357	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 36 of 49

**Test Band = LTE Band 30 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	4620.68	50.30	-108.00	-57.70	-40.00	17.70	263	188	Horizontal
2	6931.02	47.53	-101.68	-54.15	-40.00	14.15	251	50	Horizontal
3	9241.32	47.56	-95.08	-47.52	-40.00	7.52	176	110	Horizontal
4	11551.7	42.45	-91.59	-49.14	-40.00	9.14	263	142	Horizontal
5	13862.04	41.36	-89.78	-48.42	-40.00	8.42	241	327	Horizontal
6	16172.38	42.11	-90.28	-48.17	-40.00	8.17	178	176	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	50.11	-108.00	-57.89	-40.00	17.89	263	19	Vertical
2	6931.02	48.53	-101.68	-53.15	-40.00	13.15	251	190	Vertical
3	9241.32	47.21	-95.08	-47.87	-40.00	7.87	174	328	Vertical
4	11551.7	40.63	-91.59	-50.96	-40.00	10.96	186	247	Vertical
5	13862.04	41.92	-89.78	-47.86	-40.00	7.86	264	144	Vertical
6	16172.38	42.06	-90.28	-48.22	-40.00	8.22	155	88	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 37 of 49

**Test Band = UL CA Band 2A-30A\_ 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	3702.18	50.63	-111.07	-60.44	-40.00	20.44	263	333	Horizontal
2	4610.68	50.21	-108.05	-57.84	-40.00	17.84	241	359	Horizontal
3	5553.27	49.54	-106.36	-56.82	-40.00	16.82	176	136	Horizontal
4	6916.02	48.26	-101.68	-53.42	-40.00	13.42	254	184	Horizontal
5	7404.36	48.19	-100.77	-52.58	-40.00	12.58	186	333	Horizontal
6	9221.36	48.08	-95.08	-47.00	-40.00	7.00	241	66	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	49.52	-111.07	-61.55	-40.00	21.55	263	360	Vertical
2	4610.68	50.81	-108.05	-57.24	-40.00	17.24	241	360	Vertical
3	5553.27	50.16	-106.36	-56.20	-40.00	16.20	176	22	Vertical
4	6916.02	48.49	-101.68	-53.19	-40.00	13.19	254	11	Vertical
5	7403.5714	53.22	-100.78	-47.56	-40.00	7.56	188	55	Vertical
6	9221.36	47.21	-95.08	-47.87	-40.00	7.87	265	218	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 38 of 49

**Test Band = UL CA Band 2A-30A\_ 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	3742.18	49.60	-110.86	-61.26	-40.00	21.26	263	3	Horizontal
2	4615.68	49.94	-108.03	-58.09	-40.00	18.09	251	90	Horizontal
3	5613.27	51.07	-106.14	-55.07	-40.00	15.07	175	90	Horizontal
4	6923.52	48.74	-101.68	-52.94	-40.00	12.94	263	333	Horizontal
5	7484.36	48.59	-100.43	-51.84	-40.00	11.84	241	321	Horizontal
6	9231.36	47.81	-95.08	-47.27	-40.00	7.27	178	102	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	50.56	-110.86	-60.30	-40.00	20.30	263	160	Vertical
2	4615.68	49.99	-108.03	-58.04	-40.00	18.04	241	112	Vertical
3	5613.27	50.24	-106.14	-55.90	-40.00	15.90	175	360	Vertical
4	6923.52	49.52	-101.68	-52.16	-40.00	12.16	265	3	Vertical
5	7484.36	54.34	-100.43	-46.09	-40.00	6.09	284	55	Vertical
6	9231.36	47.01	-95.08	-48.07	-40.00	8.07	178	288	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 39 of 49

**Test Band = UL CA Band 2A-30A\_ 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	3782.18	50.20	-110.65	-60.45	-40.00	20.45	162	173	Horizontal
2	4620.68	49.44	-108.00	-58.56	-40.00	18.56	263	254	Horizontal
3	5673.27	50.29	-105.87	-55.58	-40.00	15.58	321	81	Horizontal
4	6931.02	47.88	-101.68	-53.80	-40.00	13.80	142	69	Horizontal
5	7564.36	49.23	-100.00	-50.77	-40.00	10.77	265	115	Horizontal
6	9241.32	47.11	-95.08	-47.97	-40.00	7.97	284	33	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	49.36	-110.65	-61.29	-40.00	21.29	263	163	Vertical
2	4620.68	49.09	-108.00	-58.91	-40.00	18.91	251	68	Vertical
3	5673.27	50.18	-105.87	-55.69	-40.00	15.69	142	360	Vertical
4	6931.02	48.52	-101.68	-53.16	-40.00	13.16	284	186	Vertical
5	7564.36	48.95	-100.00	-51.05	-40.00	11.05	196	356	Vertical
6	9241.32	48.31	-95.08	-46.77	-40.00	6.77	147	360	Vertical



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

Report No.: SEWM2304000122RG01

Rev.: 01

Page: 40 of 49

**Test Band = UL CA Band 4A-30A\_ 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	3422.1429	54.43	-111.71	-57.28	-40.00	17.28	231	196	Horizontal
2	4610.68	48.89	-108.05	-59.16	-40.00	19.16	142	208	Horizontal
3	5133.27	50.12	-106.90	-56.78	-40.00	16.78	265	172	Horizontal
4	6844.36	49.18	-101.87	-52.69	-40.00	12.69	284	220	Horizontal
5	6916.02	48.13	-101.68	-53.55	-40.00	13.55	175	244	Horizontal
6	9221.36	48.04	-95.08	-47.04	-40.00	7.04	241	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1429	55.03	-111.71	-56.68	-40.00	16.68	214	161	Vertical
2	4610.68	50.75	-108.05	-57.30	-40.00	17.30	176	3	Vertical
3	5133.27	50.21	-106.90	-56.69	-40.00	16.69	284	58	Vertical
4	6844.36	49.21	-101.87	-52.66	-40.00	12.66	178	301	Vertical
5	6916.02	47.74	-101.68	-53.94	-40.00	13.94	265	277	Vertical
6	9221.36	46.98	-95.08	-48.10	-40.00	8.10	244	68	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 41 of 49

**Test Band = UL CA Band 4A-30A\_ 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	3447.18	55.44	-111.65	-56.21	-40.00	16.21	263	197	Horizontal
2	4615.68	49.23	-108.03	-58.80	-40.00	18.80	241	355	Horizontal
3	5170.77	49.46	-106.85	-57.39	-40.00	17.39	176	242	Horizontal
4	6894.36	48.54	-101.70	-53.16	-40.00	13.16	284	206	Horizontal
5	6923.52	47.60	-101.68	-54.08	-40.00	14.08	186	300	Horizontal
6	9231.36	47.42	-95.08	-47.66	-40.00	7.66	264	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.18	55.83	-111.65	-55.82	-40.00	15.82	263	150	Vertical
2	4615.68	49.66	-108.03	-58.37	-40.00	18.37	241	3	Vertical
3	5170.77	49.61	-106.85	-57.24	-40.00	17.24	175	324	Vertical
4	6894.36	47.38	-101.70	-54.32	-40.00	14.32	265	343	Vertical
5	6923.52	48.62	-101.68	-53.06	-40.00	13.06	248	312	Vertical
6	9231.36	48.51	-95.08	-46.57	-40.00	6.57	254	360	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 42 of 49

**Test Band = UL CA Band 4A-30A\_ 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	3472.18	54.53	-111.60	-57.07	-40.00	17.07	263	197	Horizontal
2	4620.68	49.61	-108.00	-58.39	-40.00	18.39	241	185	Horizontal
3	5208.27	50.94	-106.80	-55.86	-40.00	15.86	178	232	Horizontal
4	6931.02	47.97	-101.68	-53.71	-40.00	13.71	265	46	Horizontal
5	6944.36	48.28	-101.67	-53.39	-40.00	13.39	241	34	Horizontal
6	9241.32	47.57	-95.08	-47.51	-40.00	7.51	178	355	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	53.75	-111.60	-57.85	-40.00	17.85	263	185	Vertical
2	4620.68	50.47	-108.00	-57.53	-40.00	17.53	241	360	Vertical
3	5208.27	50.77	-106.80	-56.03	-40.00	16.03	176	254	Vertical
4	6931.02	48.83	-101.68	-52.85	-40.00	12.85	284	3	Vertical
5	6944.36	47.50	-101.67	-54.17	-40.00	14.17	177	360	Vertical
6	9241.32	47.09	-95.08	-47.99	-40.00	7.99	268	290	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 43 of 49

**Test Band = UL CA Band 12A-30A\_ 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	1399.18	40.73	-95.67	-54.94	-40.00	14.94	263	198	Horizontal
2	2098.77	41.70	-93.07	-51.37	-40.00	11.37	241	147	Horizontal
3	2798.36	40.02	-90.04	-50.02	-40.00	10.02	176	292	Horizontal
4	4610.68	49.83	-108.05	-58.22	-40.00	18.22	284	234	Horizontal
5	6916.02	49.20	-101.68	-52.48	-40.00	12.48	178	0	Horizontal
6	9221.36	47.87	-95.08	-47.21	-40.00	7.21	266	338	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	41.51	-95.67	-54.16	-40.00	14.16	263	360	Vertical
2	2098.77	40.85	-93.07	-52.22	-40.00	12.22	251	83	Vertical
3	2798.36	40.06	-90.04	-49.98	-40.00	9.98	174	241	Vertical
4	4610.68	49.21	-108.05	-58.84	-40.00	18.84	262	248	Vertical
5	6916.02	49.70	-101.68	-51.98	-40.00	11.98	284	0	Vertical
6	9221.36	47.48	-95.08	-47.60	-40.00	7.60	178	84	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 44 of 49

**Test Band = UL CA Band 12A-30A\_ 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	1406.18	41.41	-95.64	-54.23	-40.00	14.23	263	3	Horizontal
2	2109.27	40.22	-93.05	-52.83	-40.00	12.83	251	93	Horizontal
3	2812.36	40.15	-89.95	-49.80	-40.00	9.80	174	260	Horizontal
4	4615.68	50.44	-108.03	-57.59	-40.00	17.59	262	164	Horizontal
5	6923.52	49.03	-101.68	-52.65	-40.00	12.65	284	117	Horizontal
6	9231.36	47.48	-95.08	-47.60	-40.00	7.60	186	315	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	41.09	-95.64	-54.55	-40.00	14.55	263	291	Vertical
2	2109.27	40.30	-93.05	-52.75	-40.00	12.75	255	187	Vertical
3	2812.36	40.31	-89.95	-49.64	-40.00	9.64	175	359	Vertical
4	4615.68	50.13	-108.03	-57.90	-40.00	17.90	263	357	Vertical
5	6923.52	48.11	-101.68	-53.57	-40.00	13.57	362	178	Vertical
6	9231.36	47.52	-95.08	-47.56	-40.00	7.56	261	0	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 45 of 49

**Test Band = UL CA Band 12A-30A\_ 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	1413.18	40.60	-95.62	-55.02	-40.00	15.02	263	190	Horizontal
2	2119.77	41.60	-93.02	-51.42	-40.00	11.42	241	284	Horizontal
3	2826.36	40.88	-89.86	-48.98	-40.00	8.98	176	31	Horizontal
4	4620.68	49.14	-108.00	-58.86	-40.00	18.86	263	187	Horizontal
5	6931.02	49.23	-101.68	-52.45	-40.00	12.45	241	96	Horizontal
6	9241.32	47.81	-95.08	-47.27	-40.00	7.27	178	263	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	41.78	-95.62	-53.84	-40.00	13.84	265	92	Vertical
2	2119.77	42.62	-93.02	-50.40	-40.00	10.40	241	135	Vertical
3	2826.36	39.66	-89.86	-50.20	-40.00	10.20	175	360	Vertical
4	4620.68	50.18	-108.00	-57.82	-40.00	17.82	265	0	Vertical
5	6931.02	48.31	-101.68	-53.37	-40.00	13.37	284	39	Vertical
6	9241.32	47.25	-95.08	-47.83	-40.00	7.83	178	337	Vertical



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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 46 of 49

**Test Band = UL CA Band 14A-30A\_ 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	40.76	-95.14	-54.38	-40.00	14.38	263	227	Horizontal
2	2365.02	42.74	-92.10	-49.36	-40.00	9.36	241	301	Horizontal
3	3153.36	51.22	-111.47	-60.25	-40.00	20.25	265	92	Horizontal
4	4610.68	50.48	-108.05	-57.57	-40.00	17.57	251	360	Horizontal
5	6916.02	49.68	-101.68	-52.00	-40.00	12.00	174	344	Horizontal
6	9221.36	46.87	-95.08	-48.21	-40.00	8.21	162	102	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.68	40.27	-95.14	-54.87	-40.00	14.87	263	228	Vertical
2	2365.02	40.29	-92.10	-51.81	-40.00	11.81	251	58	Vertical
3	3153.36	52.04	-111.47	-59.43	-40.00	19.43	176	324	Vertical
4	4610.68	49.49	-108.05	-58.56	-40.00	18.56	241	359	Vertical
5	6916.02	48.80	-101.68	-52.88	-40.00	12.88	186	324	Vertical
6	9221.36	47.83	-95.08	-47.25	-40.00	7.25	244	288	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

Report No.: SEWM2304000122RG01

Rev.: 01

Page: 47 of 49

**Test Band = UL CA Band 14A-30A\_ 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	40.58	-95.13	-54.55	-40.00	14.55	263	308	Horizontal
2	2372.52	41.35	-92.07	-50.72	-40.00	10.72	241	89	Horizontal
3	3163.36	52.05	-111.44	-59.39	-40.00	19.39	176	233	Horizontal
4	4615.68	48.98	-108.03	-59.05	-40.00	19.05	284	197	Horizontal
5	6923.52	47.58	-101.68	-54.10	-40.00	14.10	176	360	Horizontal
6	9231.36	46.39	-95.08	-48.69	-40.00	8.69	241	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.68	41.08	-95.13	-54.05	-40.00	14.05	263	50	Vertical
2	2372.52	40.57	-92.07	-51.50	-40.00	11.50	241	102	Vertical
3	3163.36	51.89	-111.44	-59.55	-40.00	19.55	176	277	Vertical
4	4615.68	49.46	-108.03	-58.57	-40.00	18.57	263	359	Vertical
5	6923.52	49.85	-101.68	-51.83	-40.00	11.83	241	301	Vertical
6	9231.36	47.52	-95.08	-47.56	-40.00	7.56	178	94	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号厂房南部 邮编: 215000

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



Report No.: SEWM2304000122RG01

Rev.: 01

Page: 48 of 49

**Test Band = UL CA Band 14A-30A\_ 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	1586.68	40.12	-95.12	-55.00	-40.00	15.00	263	329	Horizontal
2	2380.02	40.60	-92.04	-51.44	-40.00	11.44	241	277	Horizontal
3	3173.36	51.01	-111.41	-60.40	-40.00	20.40	176	209	Horizontal
4	4620.68	49.10	-108.00	-58.90	-40.00	18.90	265	47	Horizontal
5	6931.02	48.35	-101.68	-53.33	-40.00	13.33	284	105	Horizontal
6	9241.32	47.58	-95.08	-47.50	-40.00	7.50	188	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.68	40.27	-95.12	-54.85	-40.00	14.85	263	6	Vertical
2	2380.02	40.30	-92.04	-51.74	-40.00	11.74	251	173	Vertical
3	3173.36	51.44	-111.41	-59.97	-40.00	19.97	174	359	Vertical
4	4620.68	49.58	-108.00	-58.42	-40.00	18.42	263	286	Vertical
5	6931.02	49.37	-101.68	-52.31	-40.00	12.31	241	343	Vertical
6	9241.32	47.37	-95.08	-47.71	-40.00	7.71	177	157	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号厂房南部 邮编: 215000

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Report No.: SEWM2304000122RG01

Rev.: 01

Page: 49 of 49

## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	-0.30	-0.000130	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	0.30	0.000130	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	0.90	0.000390	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	0.20	0.000087	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-0.50	-0.000216	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	0.60	0.000260	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-1.60	-0.000693	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-0.70	-0.000303	PASS

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