

Report No.: SUZR/2022/1002201

Rev.: 02

Page: 1 of 37

# Appendix B.6

## LTE Band 30



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Report No.: SUZR/2022/1002201

Rev.: 02

Page: 2 of 37

## 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	22.56	22.78	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.34	22.56	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.44	22.66	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.43	21.65	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.89	23.11	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.48	22.70	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.37	22.59	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.35	21.57	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.87	23.09	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.54	22.76	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.27	22.49	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.39	21.61	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.47	21.69	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.82	22.04	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.53	21.75	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.47	20.69	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.67	21.89	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.67	21.89	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.50	21.72	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.44	20.66	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.56	21.78	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.63	21.85	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.47	21.69	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.38	20.60	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.64	20.86	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.60	20.82	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.59	20.81	23.98	PASS



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Rev.: 02

Page: 3 of 37

Band30	5MHz	64QAM	27685	25RB#0	19.51	19.73	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.58	20.80	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.69	20.91	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.58	20.80	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.35	19.57	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.54	20.76	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.54	20.76	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.50	20.72	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.39	19.61	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	17.47	17.69	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	17.67	17.89	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	17.31	17.53	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	17.46	17.68	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	17.41	17.63	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	17.66	17.88	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	17.41	17.63	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	17.37	17.59	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	17.37	17.59	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	17.65	17.87	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	17.18	17.40	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	17.37	17.59	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.46	22.68	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.54	22.76	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.26	22.48	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.42	21.64	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.57	21.79	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.52	21.74	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.26	21.48	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.44	20.66	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.63	20.85	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.69	20.91	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.53	20.75	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.42	19.64	23.98	PASS



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Rev.: 02

Page: 4 of 37

Band30	10MHz	256QAM	27710	1RB#0	17.49	17.71	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	17.61	17.83	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	17.38	17.60	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	17.39	17.61	23.98	PASS



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Rev.: 02

Page: 5 of 37

## EIRP Density Result

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm/5MHz)	EIRP Density Result (dBm/5MHz)	Limit(dBm/5MHz)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.77	22.99	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.79	23.01	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.77	22.99	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.87	23.09	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.84	23.06	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.80	23.02	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.81	23.03	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.82	23.04	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.78	23.00	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.62	22.84	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.78	23.00	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.74	22.96	23.98	PASS



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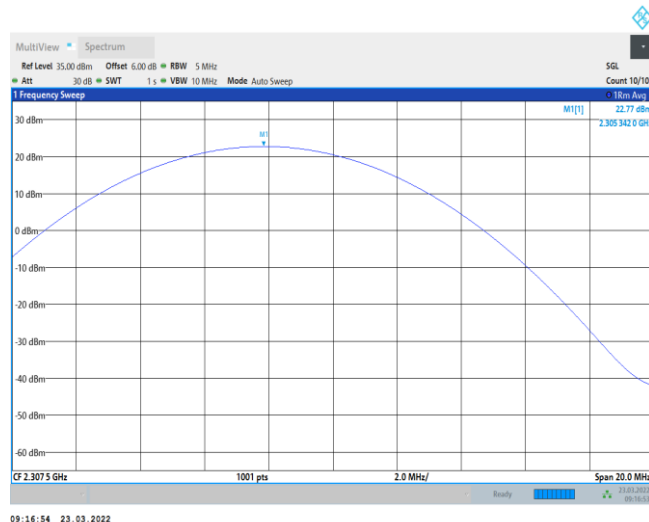
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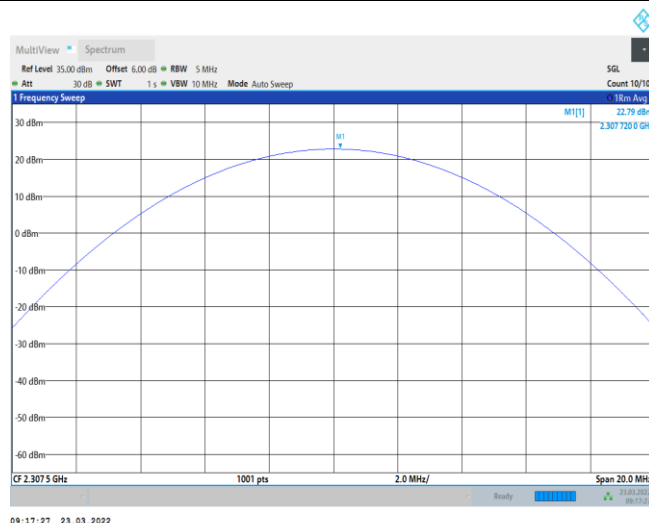
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### Test plots

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



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



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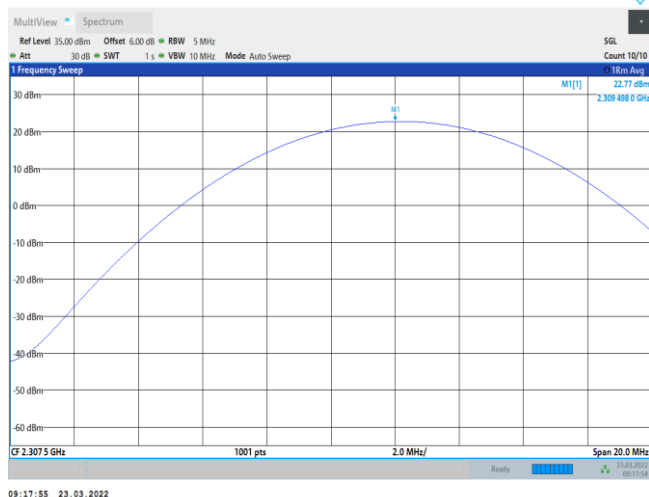
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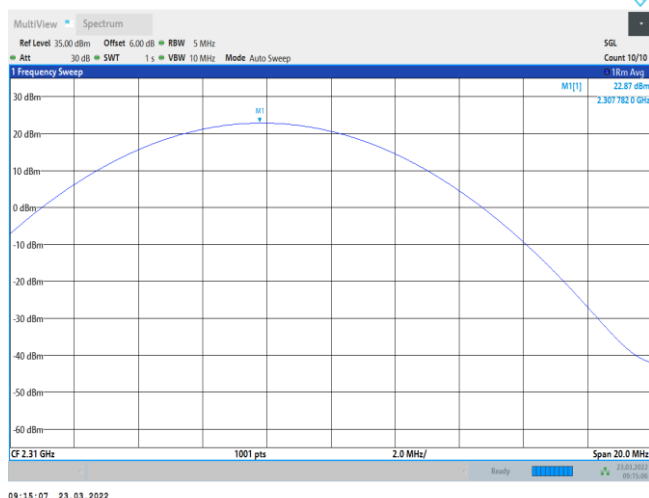
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### Band30-5MHz-QPSK-27685-1RB#24



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



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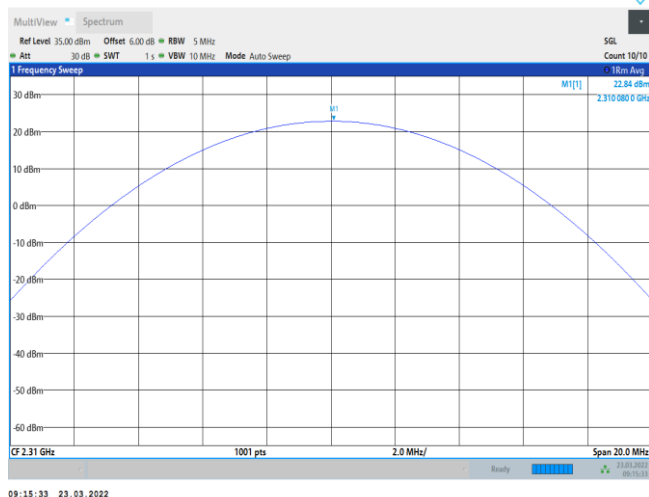
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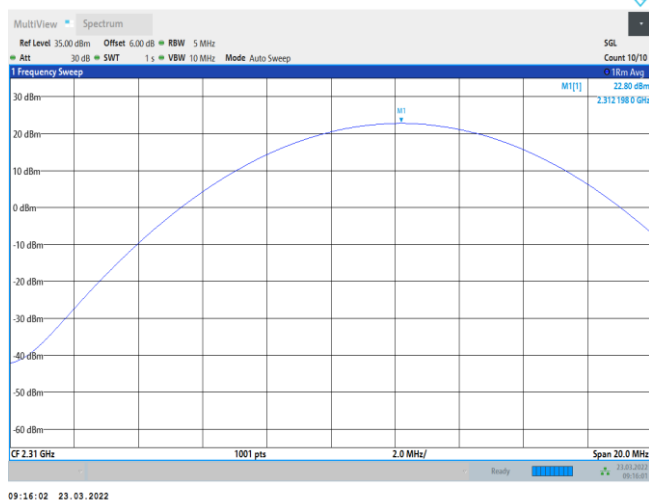
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### Band30-5MHz-QPSK-27710-1RB#12



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



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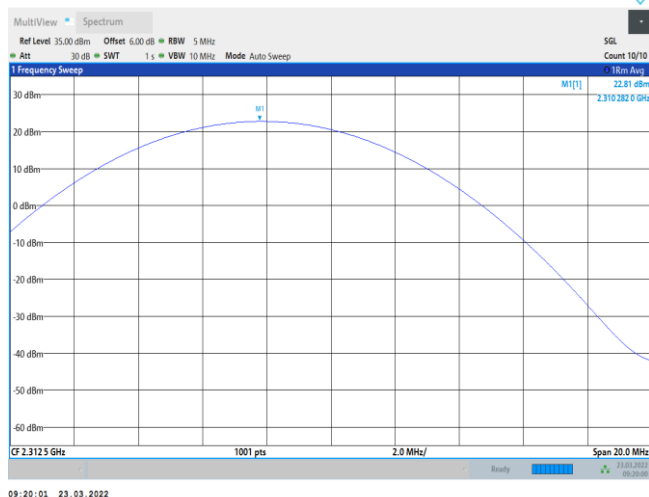


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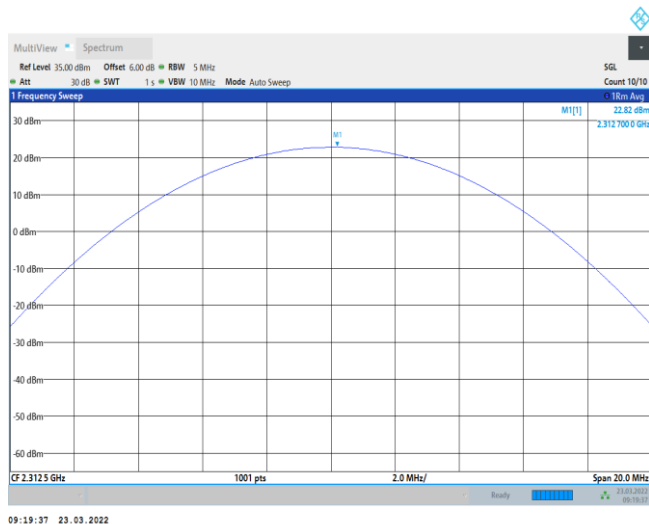
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### Band30-5MHz-QPSK-27735-25RB#0



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



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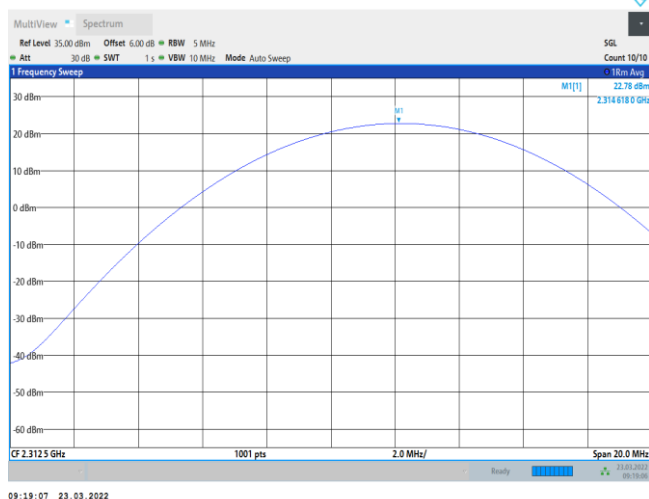
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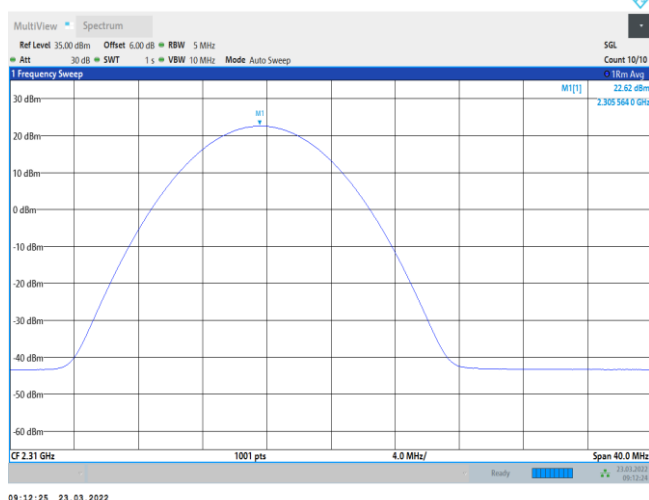
Rev.: 02

Page: 10 of 37

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



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



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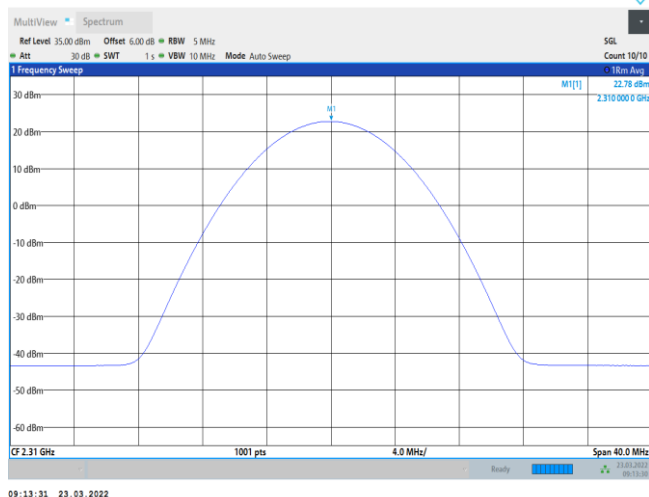
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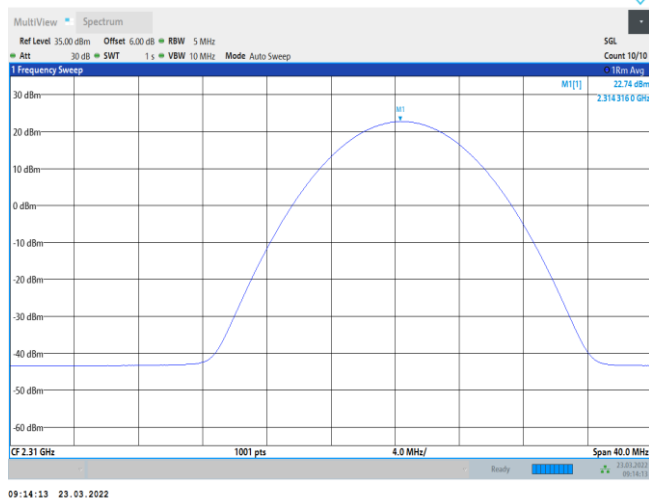
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Page: 11 of 37

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



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



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Rev.: 02

Page: 12 of 37

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	3.58	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	4.42	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	5.32	13	PASS
Band30	10MHz	256QAM	27710	1RB#0	6.54	13	PASS



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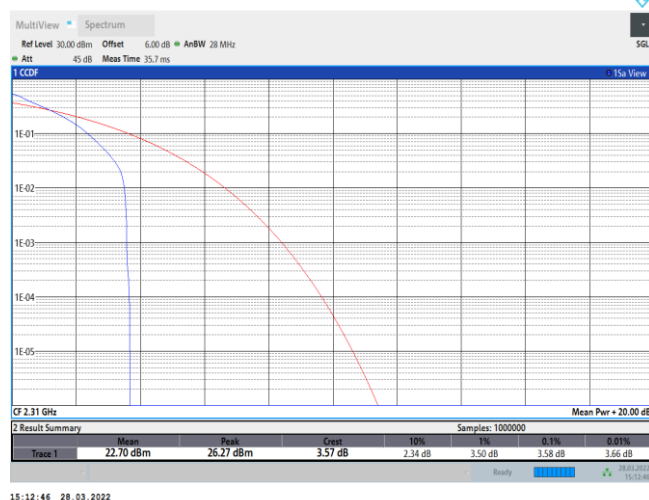
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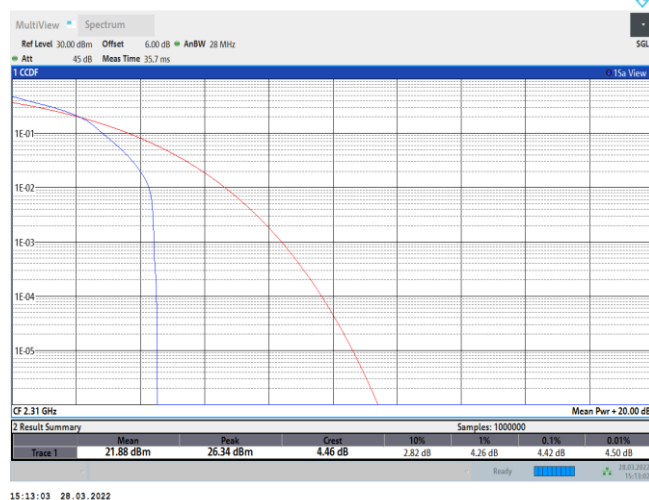
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### Test Graphs

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



Band30-10MHz-16QAM-27710-1RB#0



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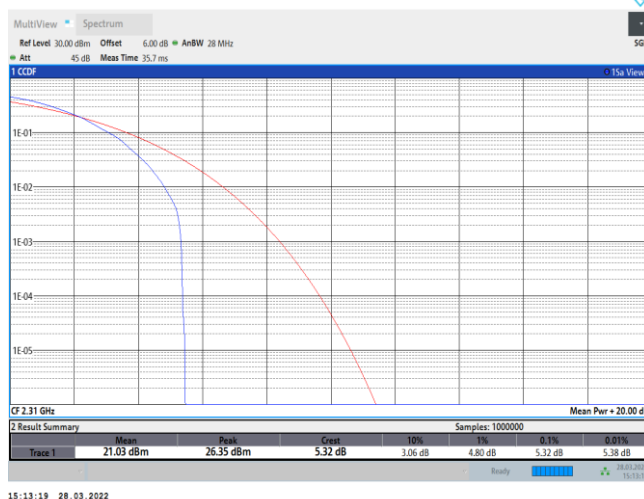


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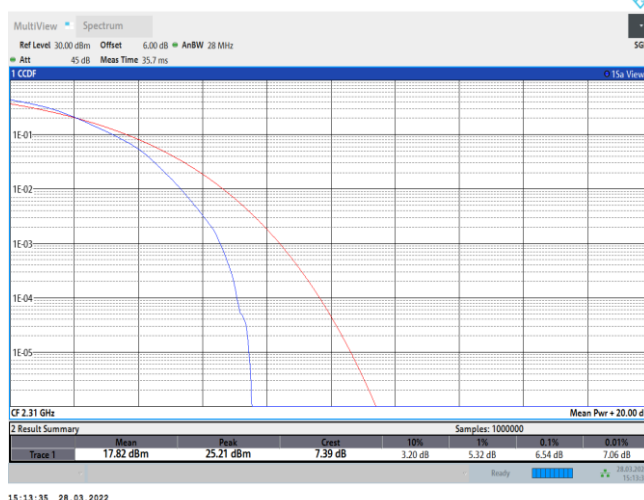
Page: 14 of 37

### Band30-10MHz-64QAM-27710-1RB#0



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### Band30-10MHz-256QAM-27710-1RB#0



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Rev.: 02

Page: 15 of 37

## 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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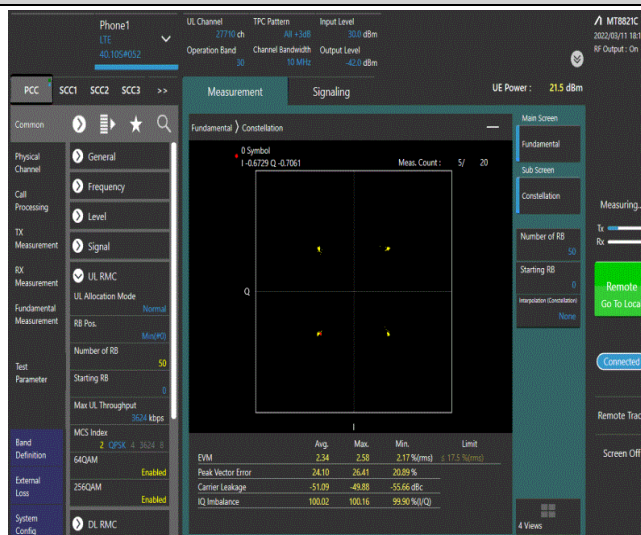
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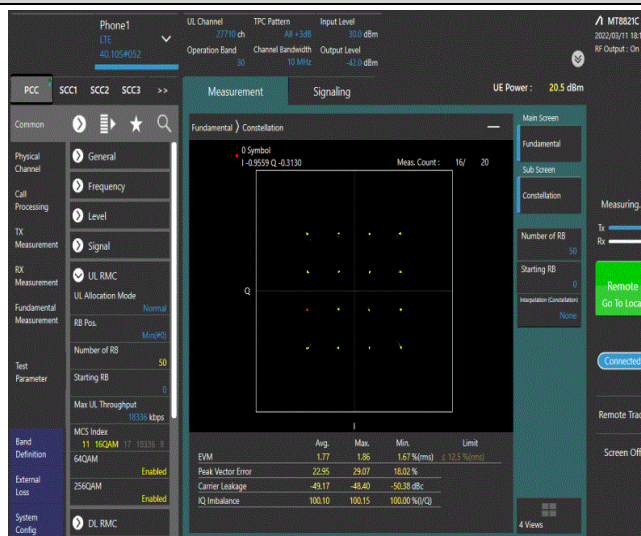
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Page: 16 of 37

### Test Graphs

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



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



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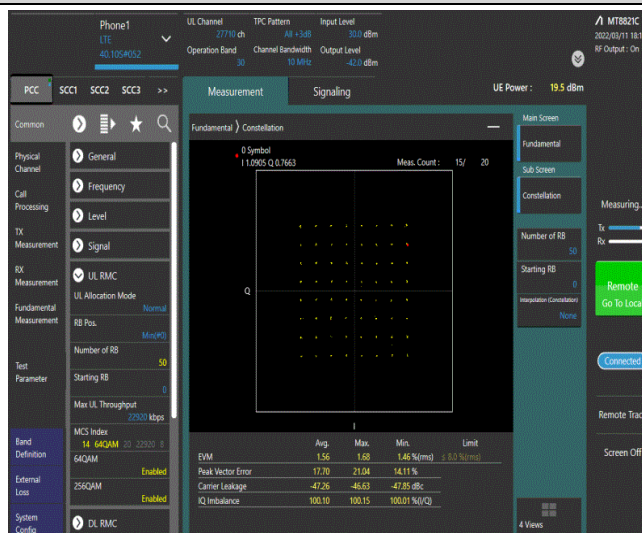
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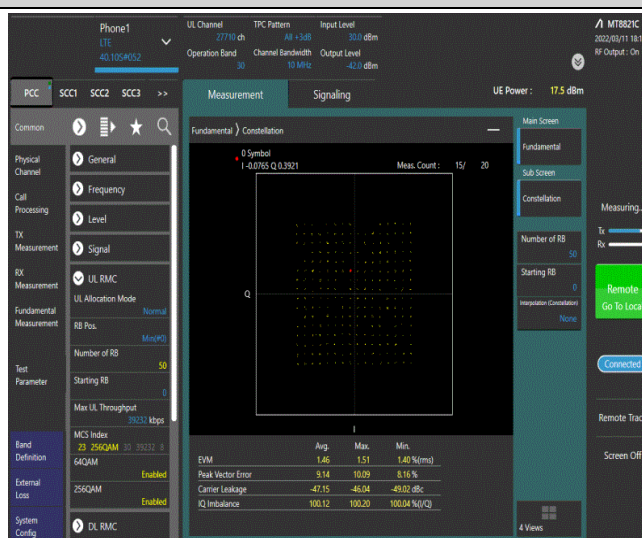
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Page: 17 of 37

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



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



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Rev.: 02

Page: 18 of 37

## 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	4.506	4.82	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.505	4.80	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.508	4.81	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.504	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.519	4.80	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.512	4.80	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.506	4.79	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.506	4.78	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.51	4.81	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.5	4.79	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.509	4.81	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.512	4.79	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.977	9.57	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.98	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.974	9.53	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.979	9.53	PASS



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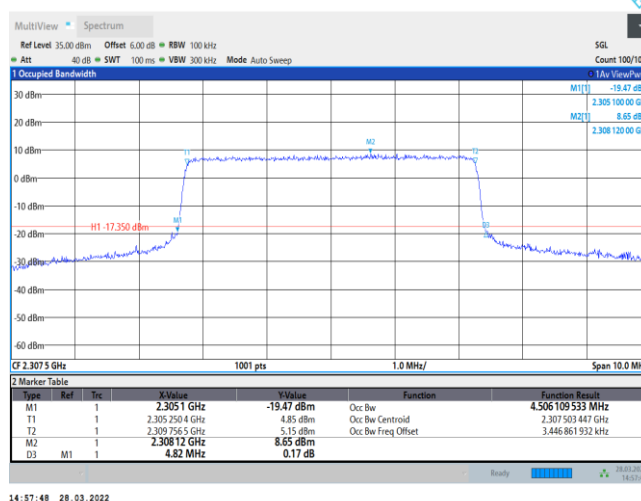
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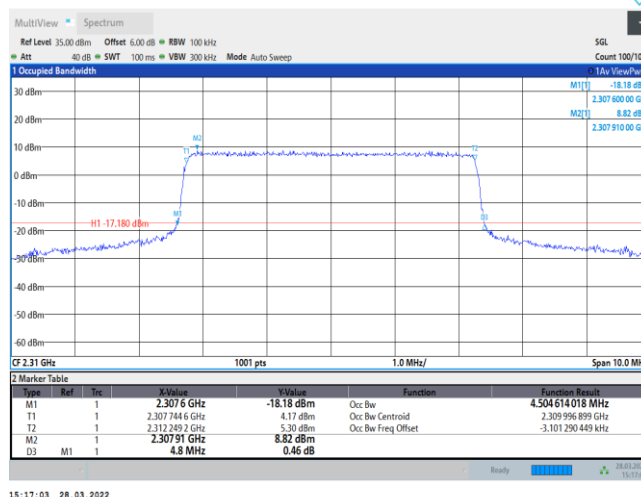


## Test Graphs

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



Band30-5MHz-QPSK-27710-25RB#0

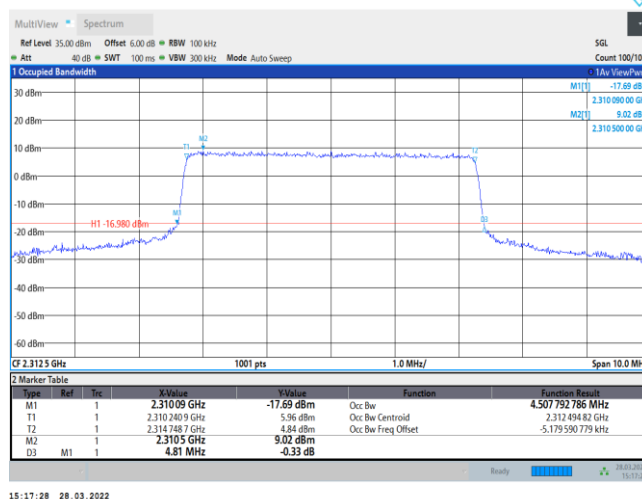


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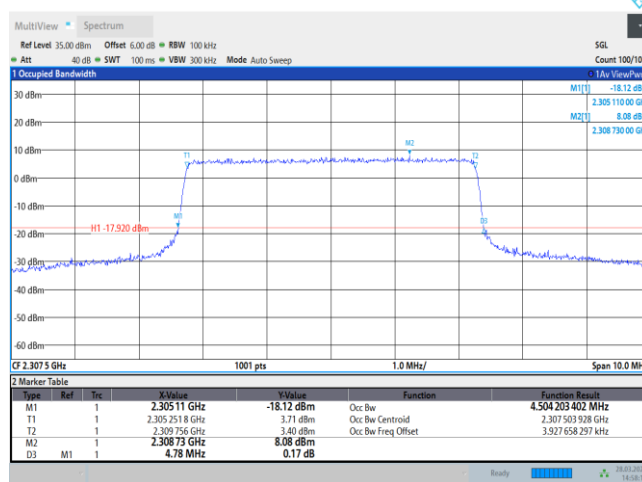
Page: 20 of 37

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



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## Band30-5MHz-16QAM-27685-25RB#0



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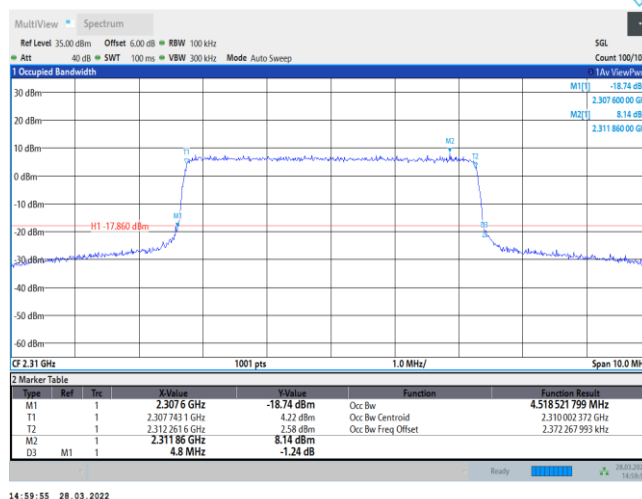
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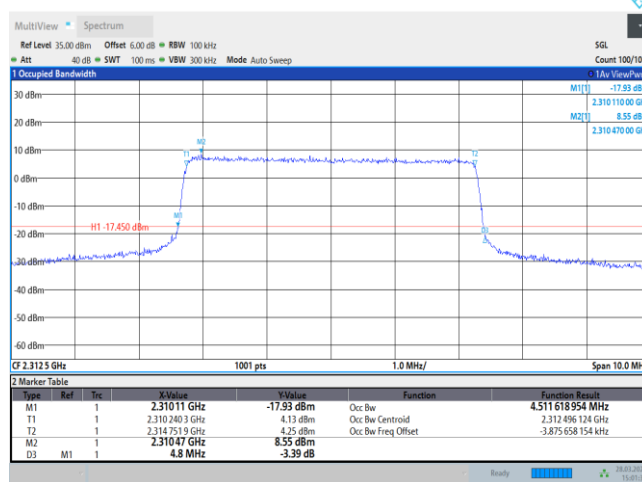
Page: 21 of 37

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



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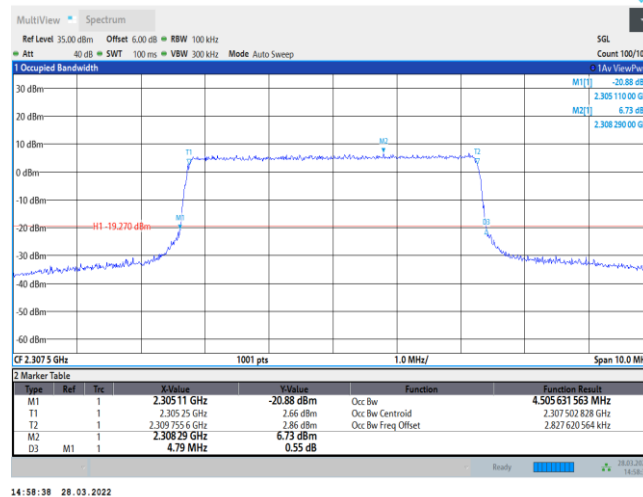
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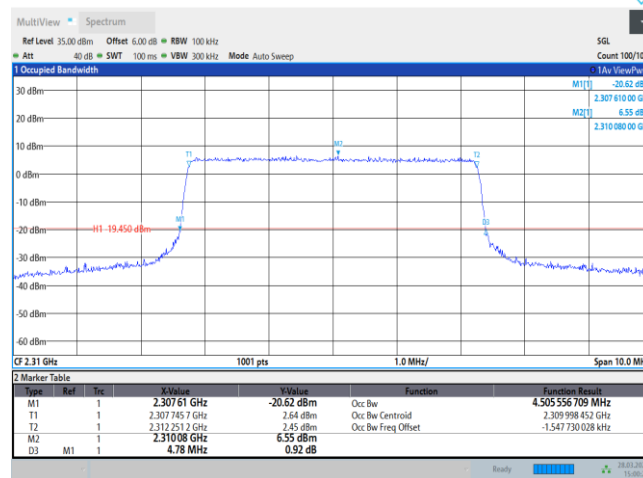
Page: 22 of 37

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



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



15:00:20 28.03.2022

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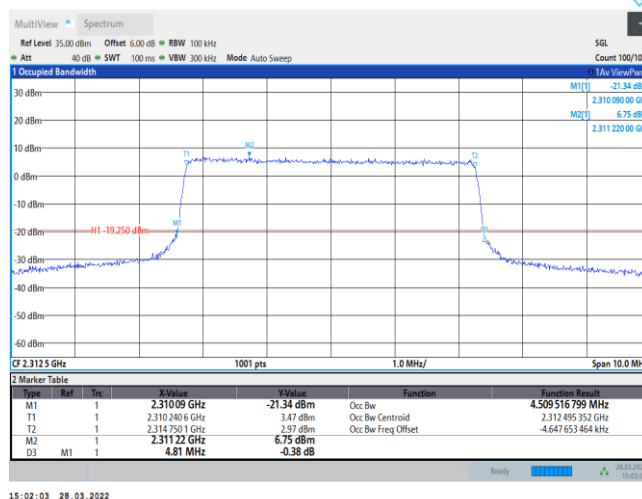
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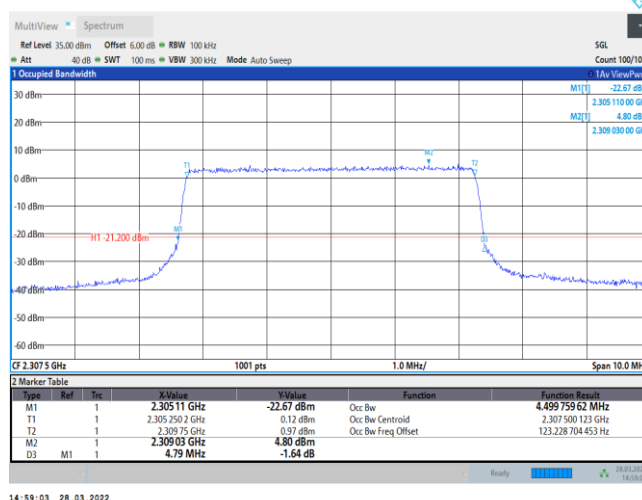
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## Band30-5MHz-64QAM-27735-25RB#0



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



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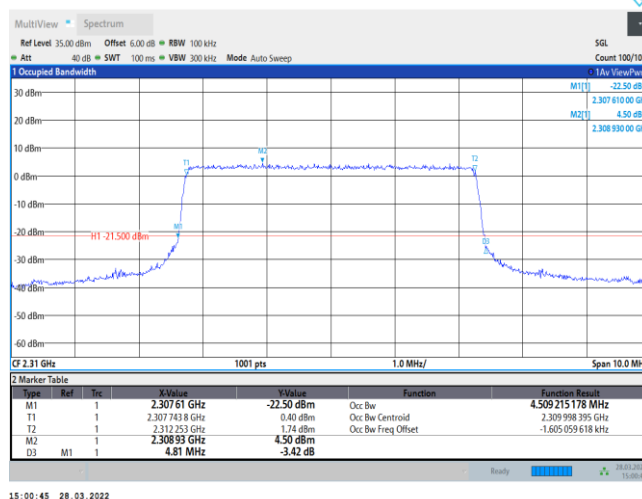


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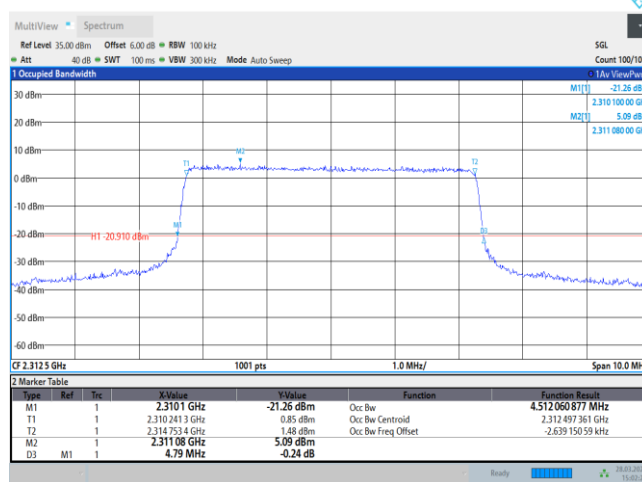
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## Band30-5MHz-256QAM-27710-25RB#0



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



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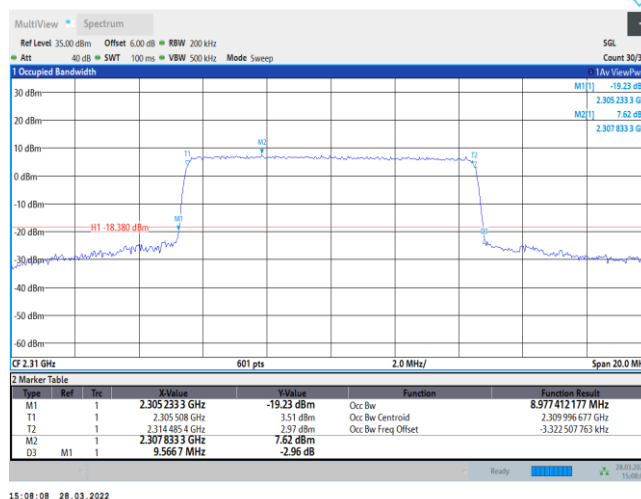
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### Band30-10MHz-QPSK-27710-50RB#0



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



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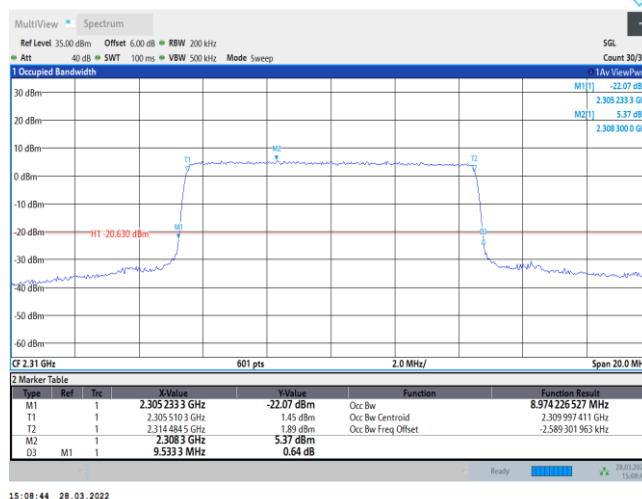
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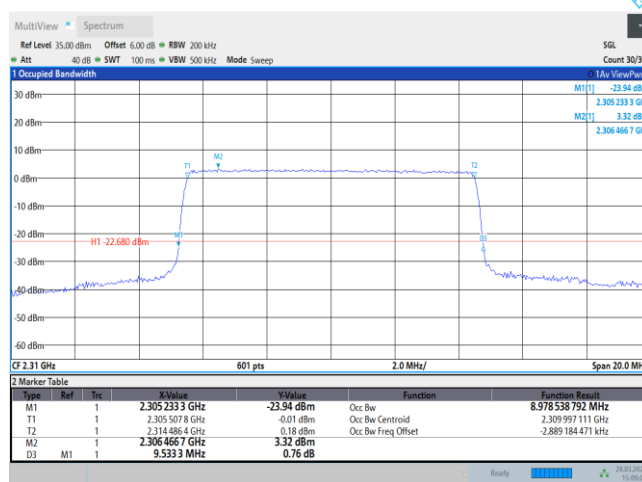
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## Band30-10MHz-64QAM-27710-50RB#0



15:08:44 28.03.2022

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



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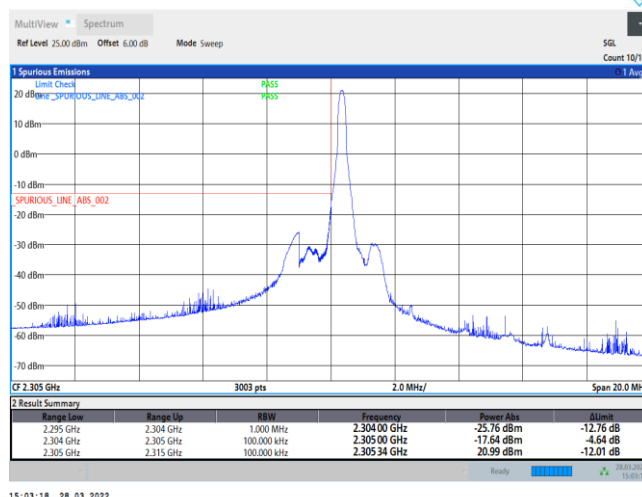
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Page: 27 of 37

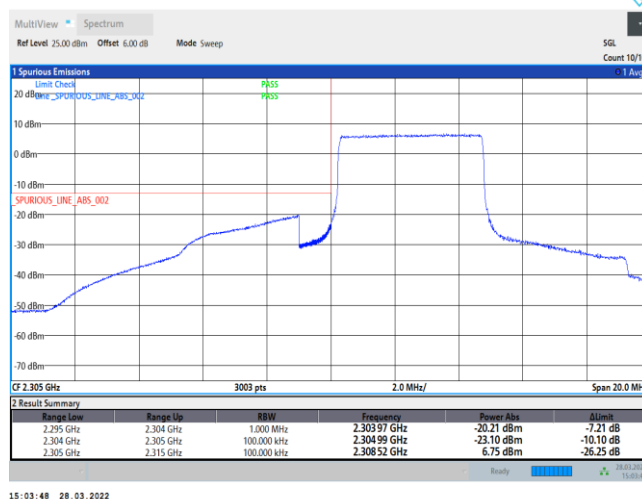
### Band Edge

### Test Graphs

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



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



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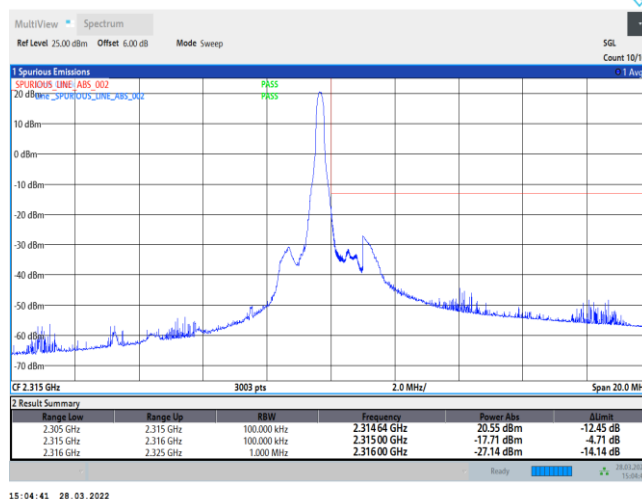
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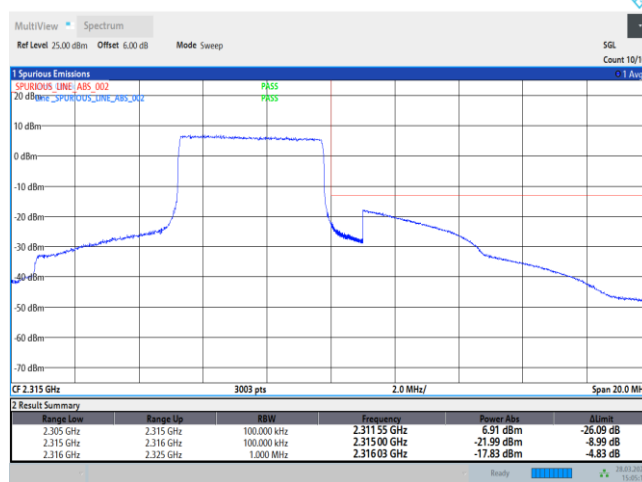
Page: 28 of 37

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



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



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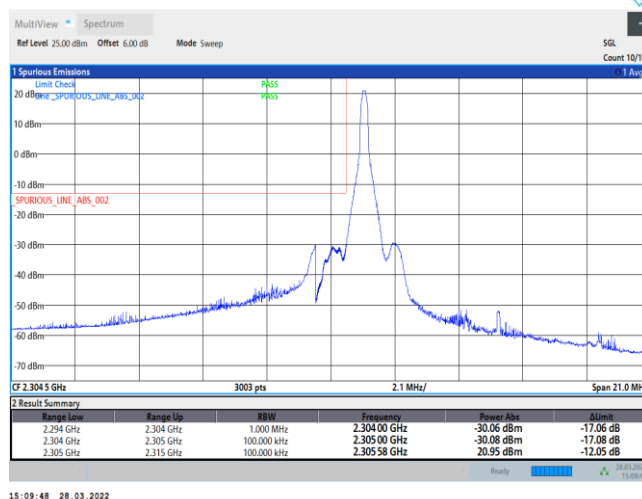


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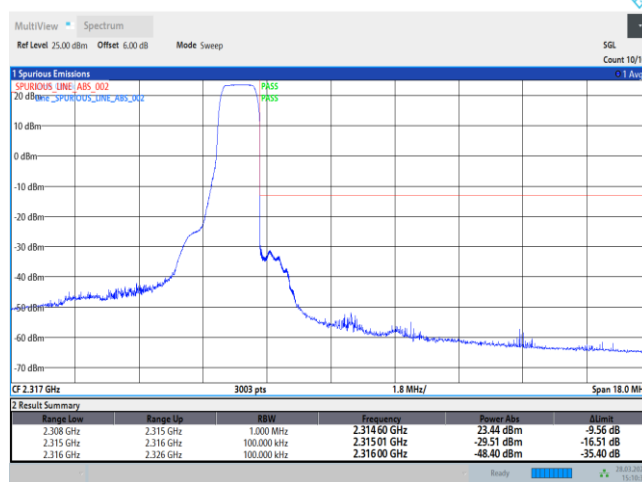
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### Band30-10MHz-QPSK-27710-1RB#0



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



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



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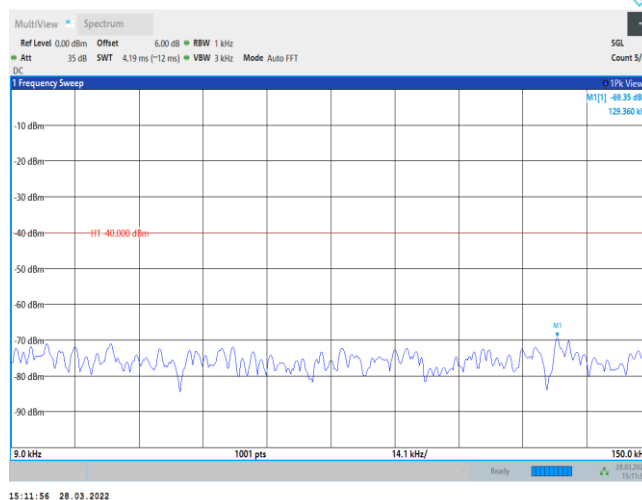
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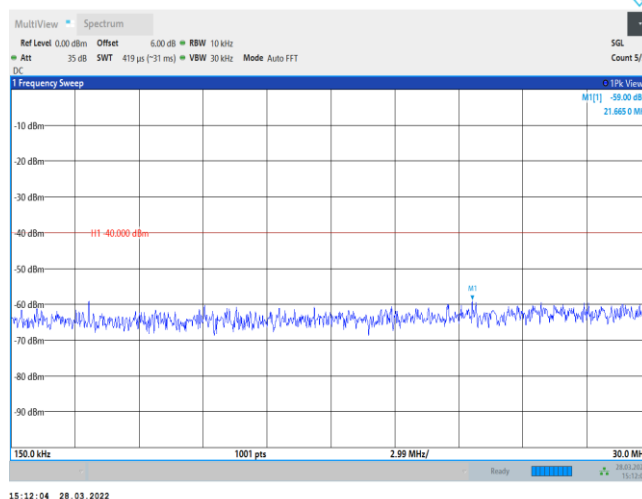
#### Test Graphs

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



15:11:56 28.03.2022

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



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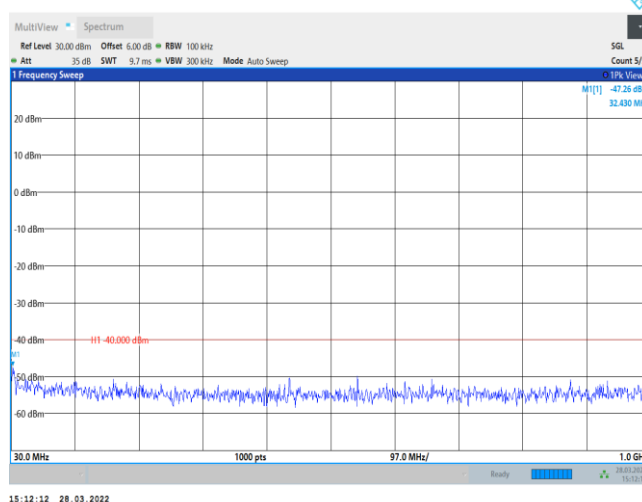
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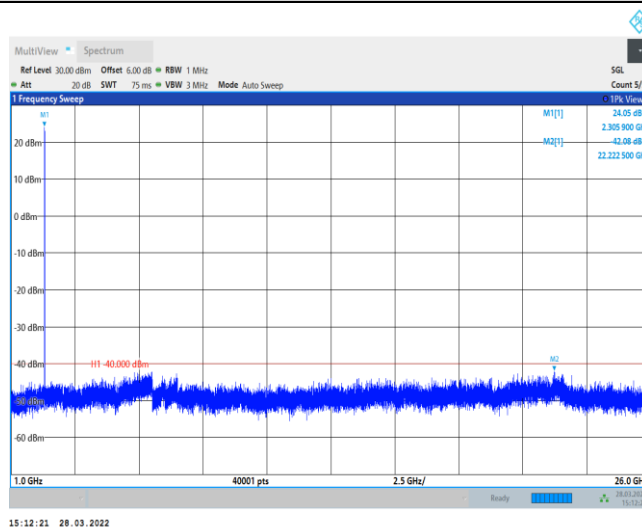
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Page: 32 of 37

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



### Band30-10MHz-QPSK-27710-1RB#0-Range4:1000~26000MHz



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Report No.: SUZR/2022/1002201

Rev.: 02

Page: 33 of 37

## Field Strength of Spurious Radiation

Test Band = \_LTE Band30 BW 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	4611.18	54.07	-108.05	-53.98	-40.00	13.98	142	169	Horizontal
2	6916.77	48.76	-101.68	-52.92	-40.00	12.92	263	11	Horizontal
3	9222.36	48.64	-95.08	-46.44	-40.00	6.44	241	266	Horizontal
4	11527.95	42.99	-91.44	-48.45	-40.00	8.45	175	92	Horizontal
5	13833.54	43.40	-90.03	-46.63	-40.00	6.63	265	47	Horizontal
6	16139.13	41.89	-90.60	-48.71	-40.00	8.71	241	2	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	56.29	-108.05	-51.76	-40.00	11.76	263	55	Vertical
2	6916.77	49.70	-101.68	-51.98	-40.00	11.98	241	107	Vertical
3	9222.36	48.12	-95.08	-46.96	-40.00	6.96	178	359	Vertical
4	11527.95	42.41	-91.44	-49.03	-40.00	9.03	265	248	Vertical
5	13833.54	46.37	-90.03	-43.66	-40.00	3.66	241	55	Vertical
6	16139.13	42.77	-90.60	-47.83	-40.00	7.83	188	151	Vertical



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Report No.: SUZR/2022/1002201

Rev.: 02

Page: 34 of 37

Test Band = \_LTE Band30 BW 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	4610.68	51.47	-108.05	-56.58	-40.00	16.58	163	261	Horizontal
2	6916.02	49.07	-101.68	-52.61	-40.00	12.61	241	261	Horizontal
3	9221.36	47.85	-95.08	-47.23	-40.00	7.23	178	243	Horizontal
4	11526.7	42.72	-91.44	-48.72	-40.00	8.72	265	28	Horizontal
5	13832.04	42.92	-90.05	-47.13	-40.00	7.13	241	356	Horizontal
6	16137.38	42.37	-90.62	-48.25	-40.00	8.25	188	124	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	53.75	-108.05	-54.30	-40.00	14.30	263	40	Vertical
2	6916.02	48.87	-101.68	-52.81	-40.00	12.81	241	110	Vertical
3	9221.36	47.54	-95.08	-47.54	-40.00	7.54	284	233	Vertical
4	11526.7	42.02	-91.44	-49.42	-40.00	9.42	176	360	Vertical
5	13832.04	45.69	-90.05	-44.36	-40.00	4.36	241	269	Vertical
6	16137.38	42.35	-90.62	-48.27	-40.00	8.27	186	74	Vertical



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Report No.: SUZR/2022/1002201

Rev.: 02

Page: 35 of 37

Test Band = \_LTE Band30 BW 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	4615.68	53.98	-108.03	-54.05	-40.00	14.05	263	62	Horizontal
2	6923.52	48.65	-101.68	-53.03	-40.00	13.03	241	200	Horizontal
3	9231.36	46.99	-95.08	-48.09	-40.00	8.09	175	158	Horizontal
4	11539.2	42.28	-91.51	-49.23	-40.00	9.23	254	174	Horizontal
5	13847.04	42.89	-89.92	-47.03	-40.00	7.03	175	200	Horizontal
6	16154.88	42.77	-90.46	-47.69	-40.00	7.69	265	80	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	56.40	-108.03	-51.63	-40.00	11.63	196	53	Vertical
2	6923.52	49.25	-101.68	-52.43	-40.00	12.43	251	360	Vertical
3	9231.36	47.80	-95.08	-47.28	-40.00	7.28	262	62	Vertical
4	11539.2	43.66	-91.51	-47.85	-40.00	7.85	251	248	Vertical
5	13847.04	43.68	-89.92	-46.24	-40.00	6.24	178	300	Vertical
6	16154.88	43.55	-90.46	-46.91	-40.00	6.91	265	359	Vertical



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Report No.: SUZR/2022/1002201

Rev.: 02

Page: 36 of 37

Test Band = \_LTE Band30 BW 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	4620.68	50.82	-108.00	-57.18	-40.00	17.18	142	144	Horizontal
2	6931.02	48.22	-101.68	-53.46	-40.00	13.46	263	302	Horizontal
3	9241.32	48.43	-95.08	-46.65	-40.00	6.65	284	284	Horizontal
4	11551.7	41.69	-91.59	-49.90	-40.00	9.90	176	88	Horizontal
5	13862.04	42.70	-89.78	-47.08	-40.00	7.08	254	20	Horizontal
6	16172.38	42.60	-90.28	-47.68	-40.00	7.68	144	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620	56.97	-108.01	-51.04	-40.00	11.04	223	122	Vertical
2	6932.1429	58.33	-101.68	-43.35	-40.00	3.35	263	149	Vertical
3	9241.32	48.20	-95.08	-46.88	-40.00	6.88	176	348	Vertical
4	11551.7	42.00	-91.59	-49.59	-40.00	9.59	284	185	Vertical
5	13862.04	43.35	-89.78	-46.43	-40.00	6.43	163	288	Vertical
6	16172.38	42.37	-90.28	-47.91	-40.00	7.91	244	140	Vertical



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Rev.: 02

Page: 37 of 37

## 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	-1.40	-0.000606	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	0.50	0.000216	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-1.40	-0.000606	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-1.30	-0.000563	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-0.80	-0.000346	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	0.40	0.000173	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-3.00	-0.001299	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-2.40	-0.001039	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-1.50	-0.000649	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-2.40	-0.001039	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-1.30	-0.000563	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-0.40	-0.000173	PASS

The End



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