

Report No.: SEWA2208000034RG01

Rev.: 01

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# Appendix B.11

## 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	22.73	17.03	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	22.00	16.88	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.50	16.8	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.62	15.92	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.06	17.28	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	22.24	16.84	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.52	16.82	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.69	15.99	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.45	16.75	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.36	16.66	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.38	16.68	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.54	15.84	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.87	16.17	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	21.31	15.61	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	21.67	15.97	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.64	14.94	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	21.39	15.69	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	21.41	15.71	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	21.65	15.95	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	20.63	14.93	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	21.57	15.87	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	21.63	15.93	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	21.54	15.84	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.57	14.87	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	20.92	15.22	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	20.28	14.58	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	20.62	14.92	23.98	PASS



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Band30	5MHz	64QAM	27685	25RB#0	19.65	13.95	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	20.40	14.7	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	20.37	14.67	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	20.60	14.9	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	19.65	13.95	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	20.69	14.99	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	20.53	14.83	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	20.56	14.86	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	19.51	13.81	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.65	15.95	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	22.17	16.47	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	22.49	16.79	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	21.72	16.02	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	20.98	15.28	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	21.35	15.65	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	21.74	16.04	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	20.65	14.95	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	20.17	14.47	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	20.27	14.57	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	20.60	14.9	23.98	PASS
Band30	10MHz	64QAM	27710	50RB#0	19.69	13.99	23.98	PASS



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## EIRP Density Result

### Test Result

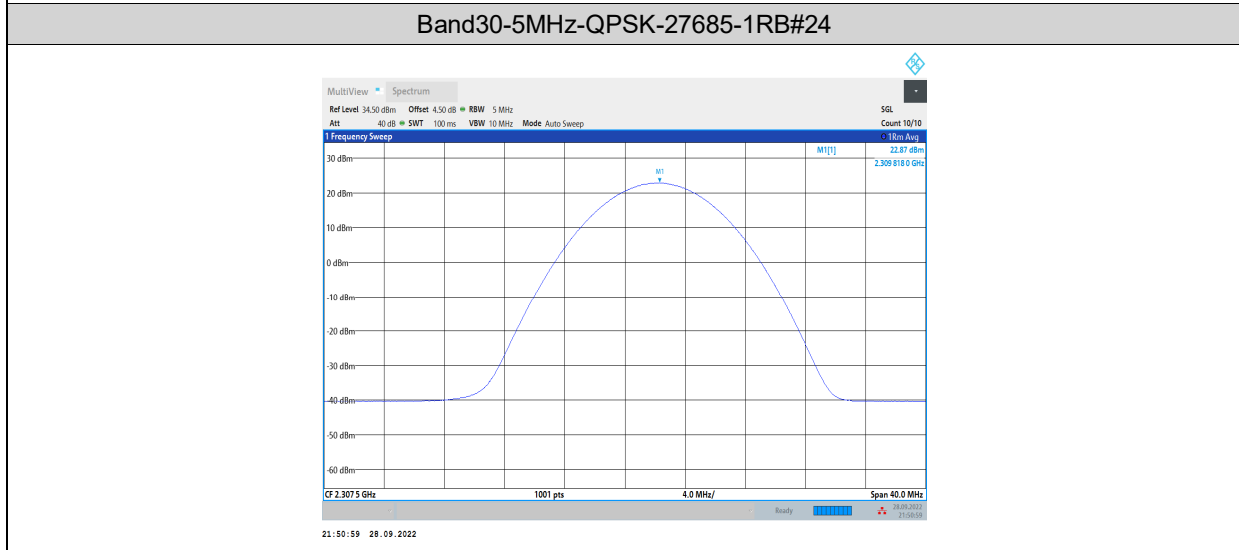
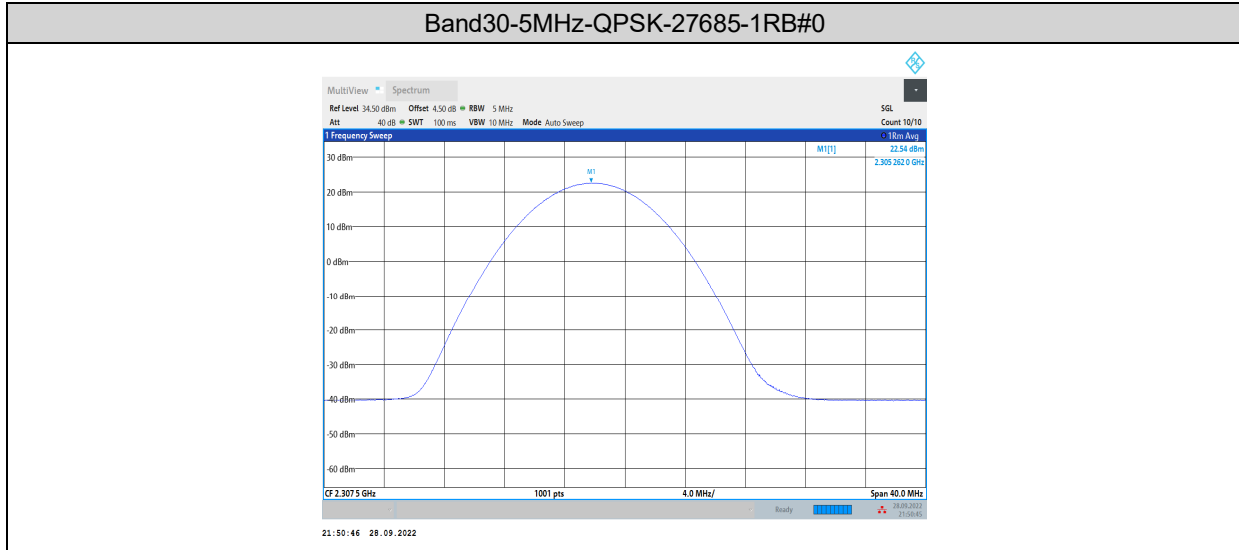
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm/5M)	EIRP (dBm/5M)	Limit (dBm/5M)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	22.54	16.84	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	22.87	17.17	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	21.20	15.5	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	21.74	16.04	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.15	16.45	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	20.20	14.5	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	23.00	17.3	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.88	17.18	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	21.22	15.52	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.26	16.56	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#49	22.25	16.55	23.98	PASS
Band30	5MHz	16QAM	27710	50RB#0	20.35	14.65	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.90	17.2	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	22.80	17.1	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	21.25	15.55	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.40	16.7	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.32	16.62	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	20.30	14.6	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	22.38	16.68	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.94	17.24	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.78	14.08	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	21.70	16	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.13	16.43	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	18.76	13.06	23.98	PASS



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Test plots

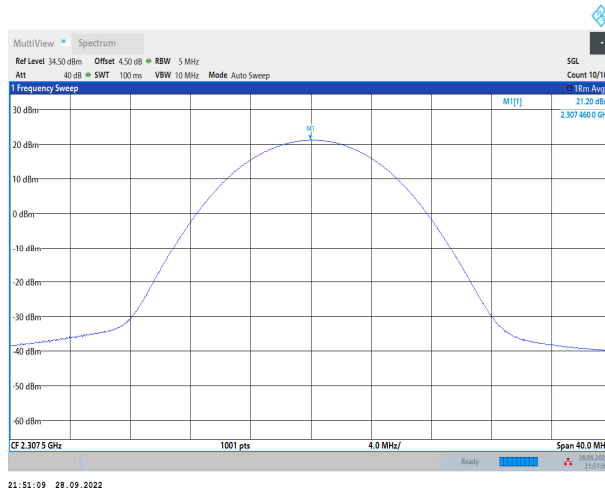


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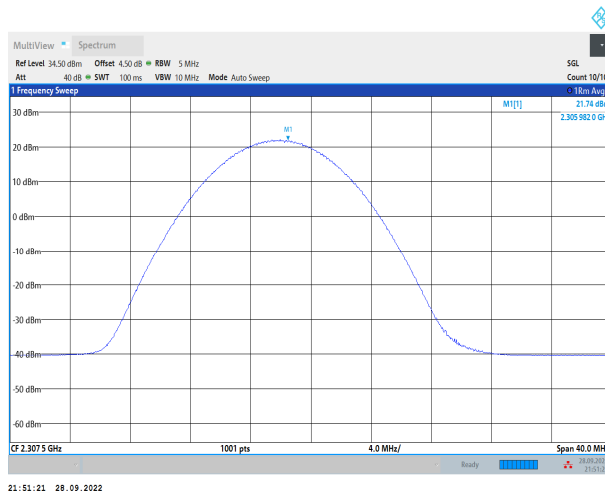
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Band30-5MHz-QPSK-27685-25RB#0



Band30-5MHz-16QAM-27685-1RB#0



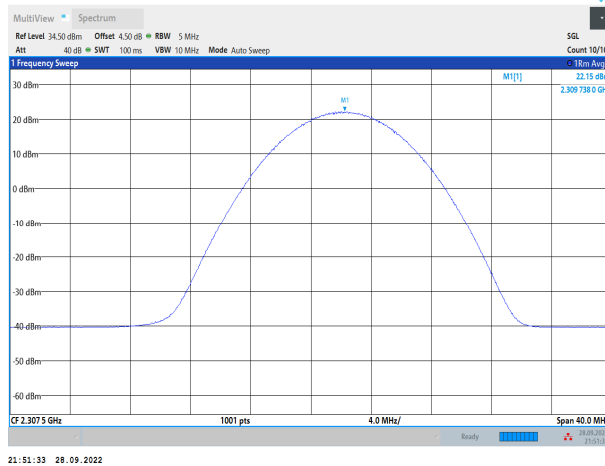
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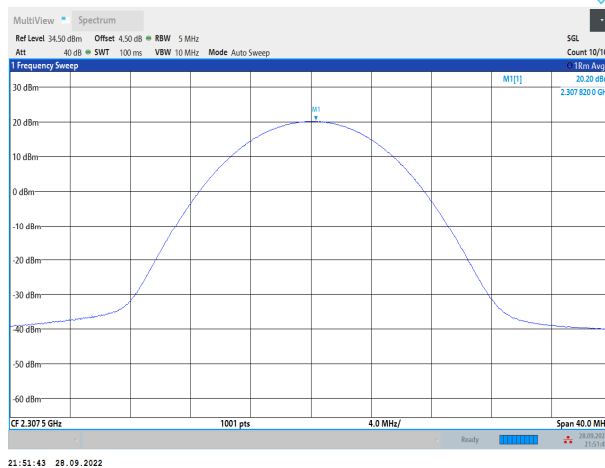
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Band30-5MHz-16QAM-27685-1RB#24



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

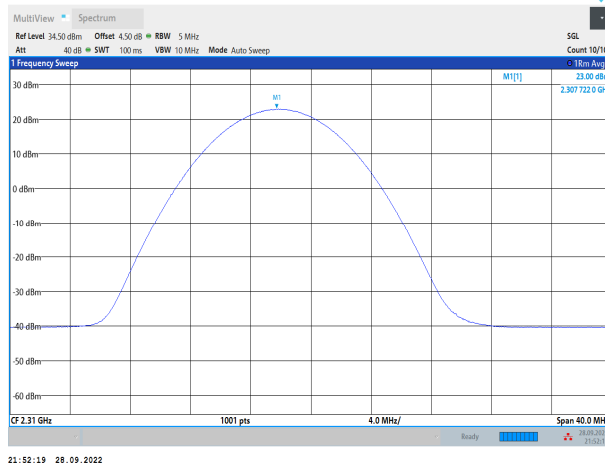


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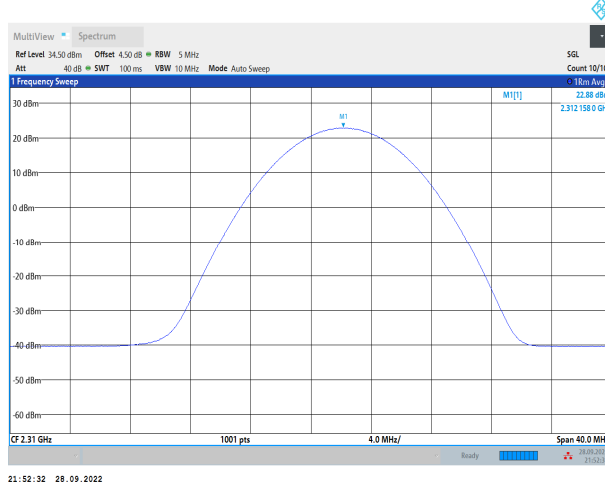
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Band30-5MHz-QPSK -27710-1RB#0



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



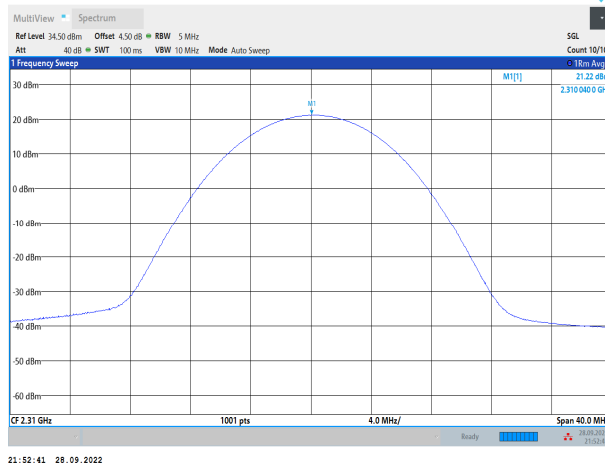
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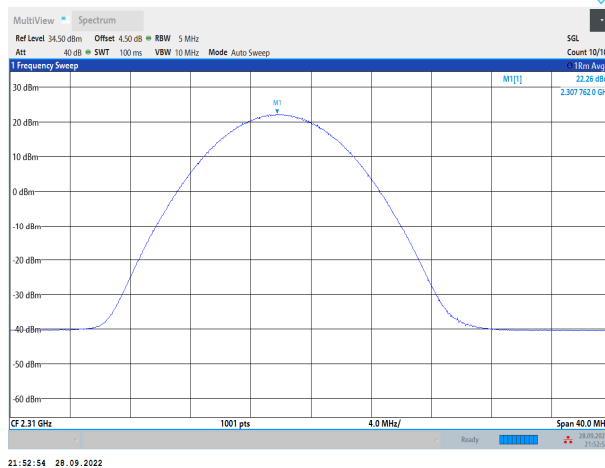
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Band30-5MHz-QPSK -27710-25RB#0



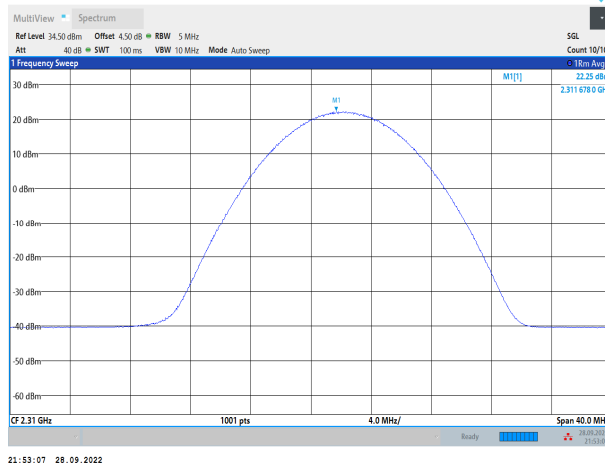
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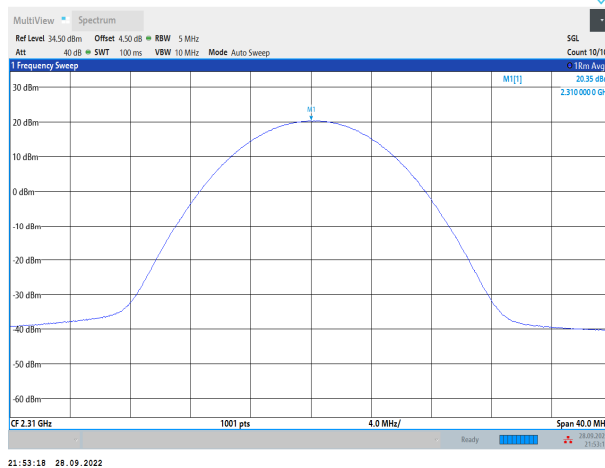
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Band30-5MHz-16QAM -27710-1RB#24



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

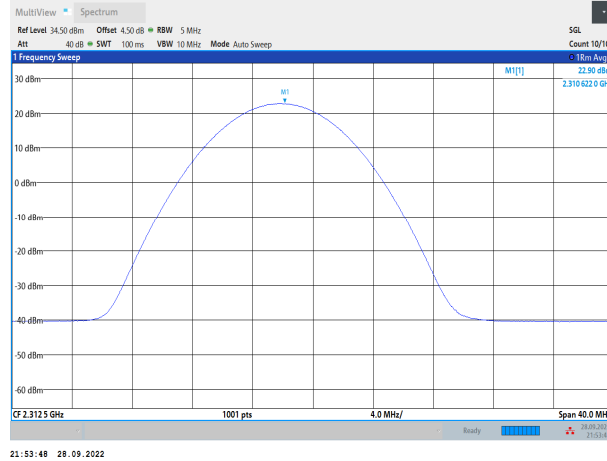


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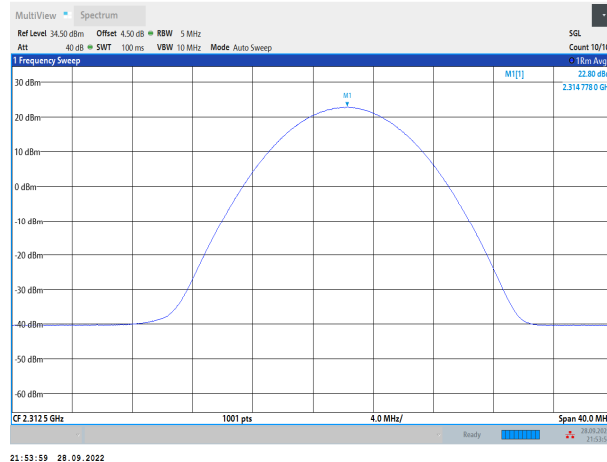
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Band30-5MHz-QPSK -27735-1RB#0



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

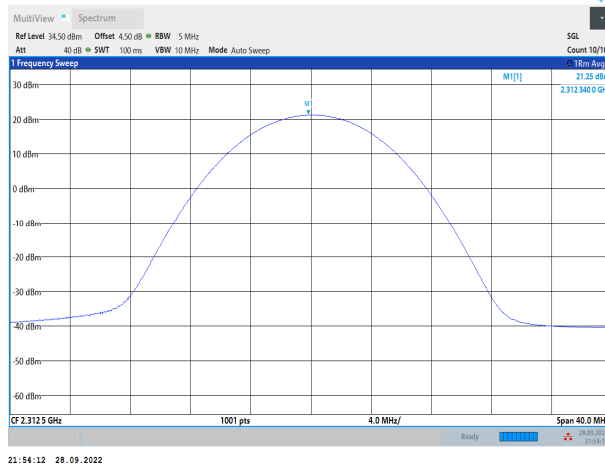


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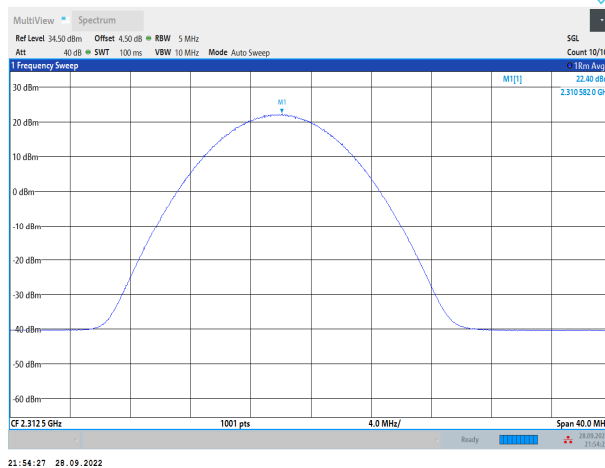
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Band30-5MHz-QPSK-27735-25RB#0



Band30-5MHz-16QAM -27735-1RB#0

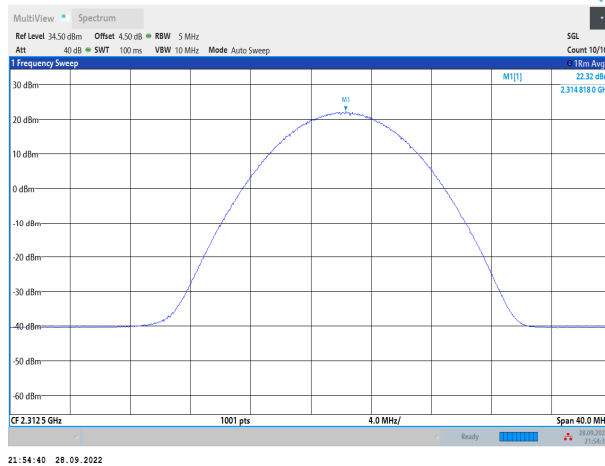


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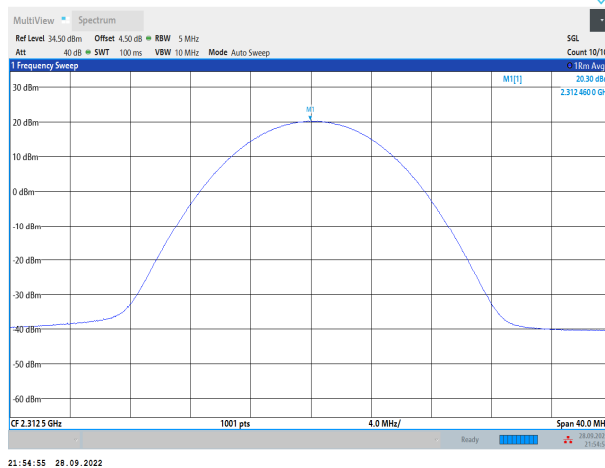
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Band30-5MHz-16QAM-27735-1RB#24



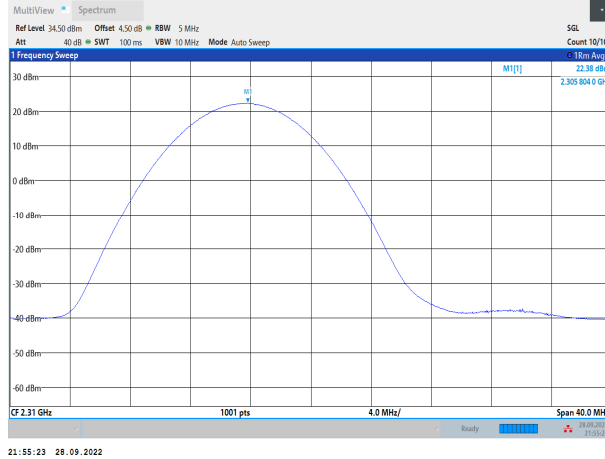
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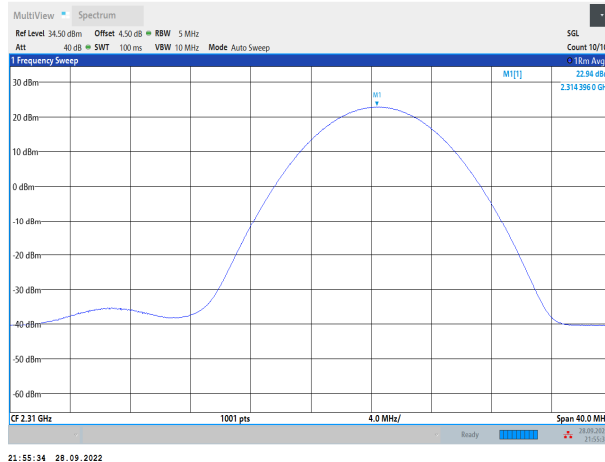
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Band30-10MHz-QPSK-27710-1RB#0



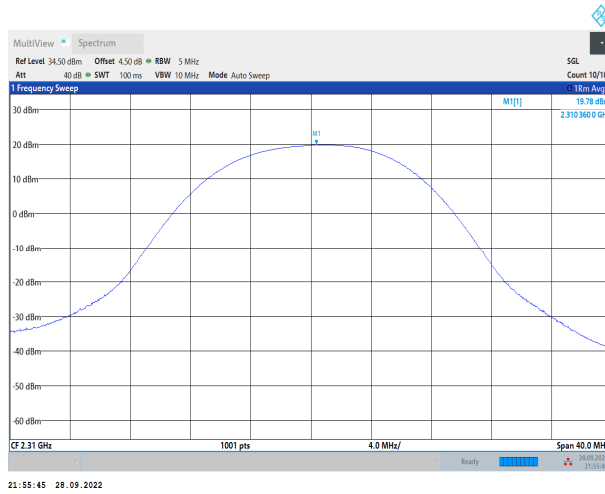
Band30-10MHz-QPSK-27710-1RB#49



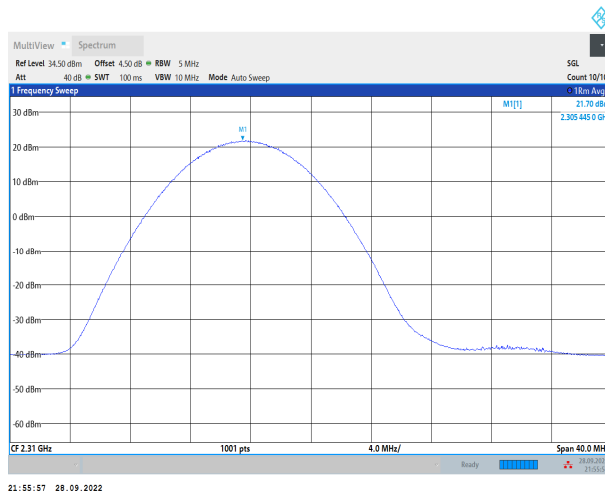
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Band30-10MHz-QPSK-27710-50RB#0



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

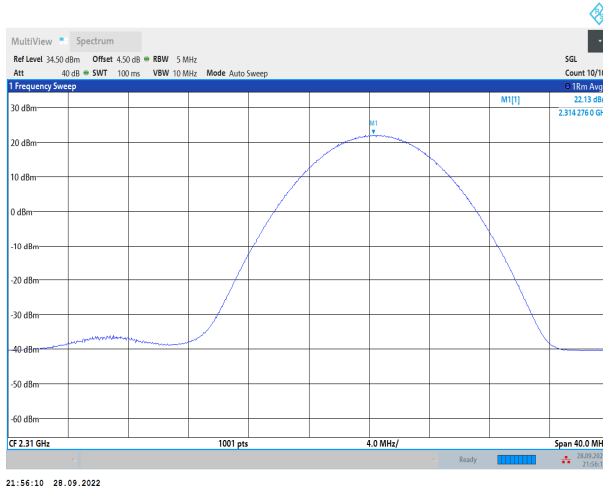


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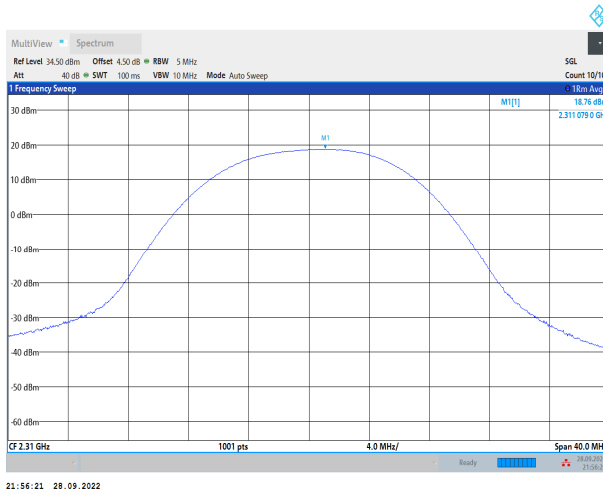
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Band30-10MHz-16QAM-27710-1RB#49



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



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	1RB#0	4.30	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	4.68	13	PASS
Band30	10MHz	16QAM	27710	1RB#0	5.04	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.46	13	PASS
Band30	10MHz	64QAM	27710	1RB#0	5.86	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.02	13	PASS

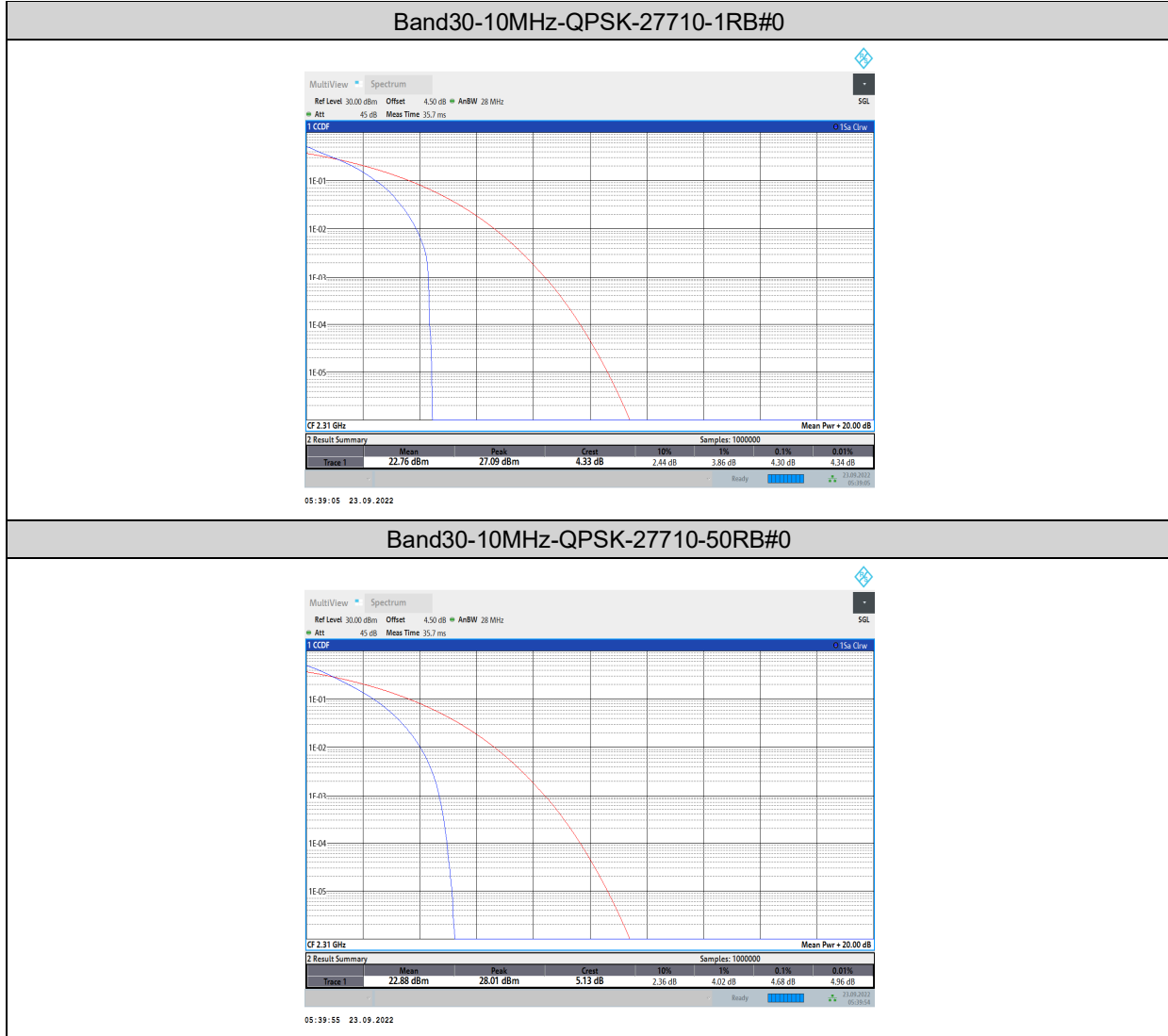


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Test Graphs

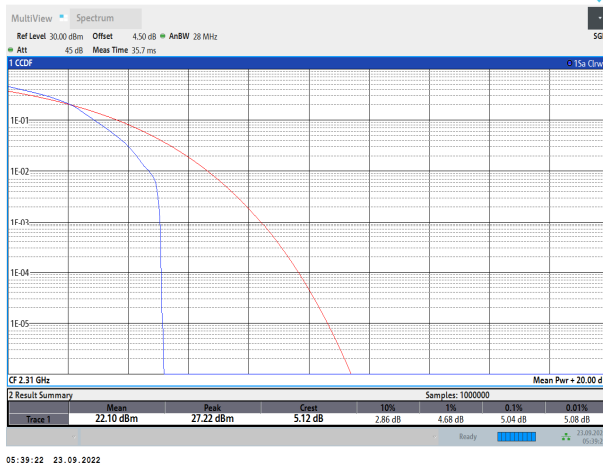


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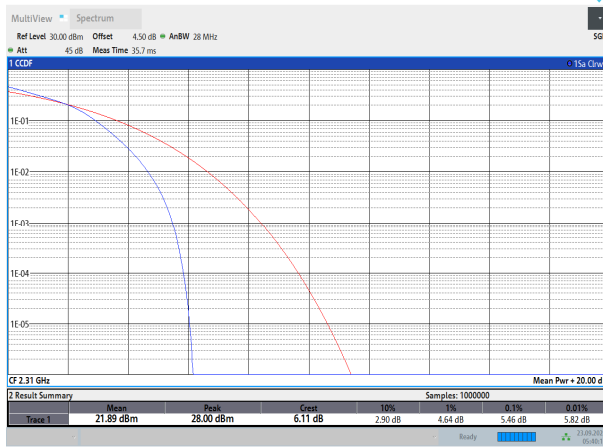
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Band30-10MHz-16QAM-27710-1RB#0



05:39:22 23.09.2022

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



05:40:11 23.09.2022

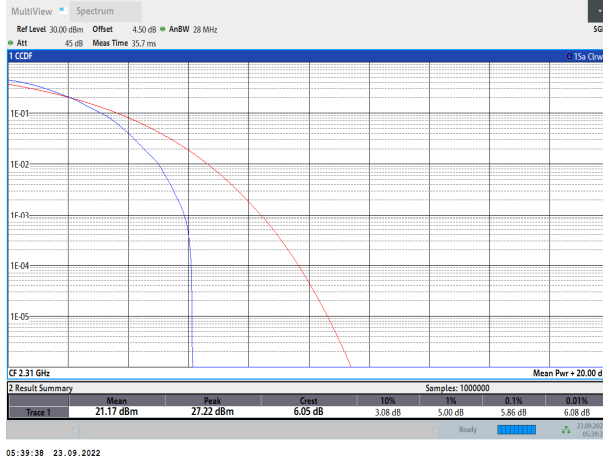


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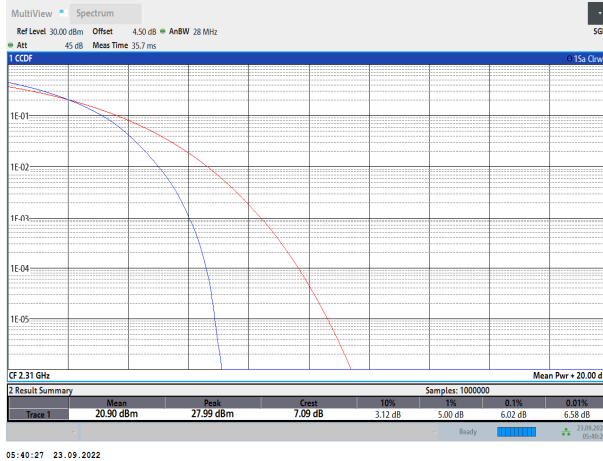
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Band30-10MHz-64QAM-27710-1RB#0



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## 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



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Test Graphs

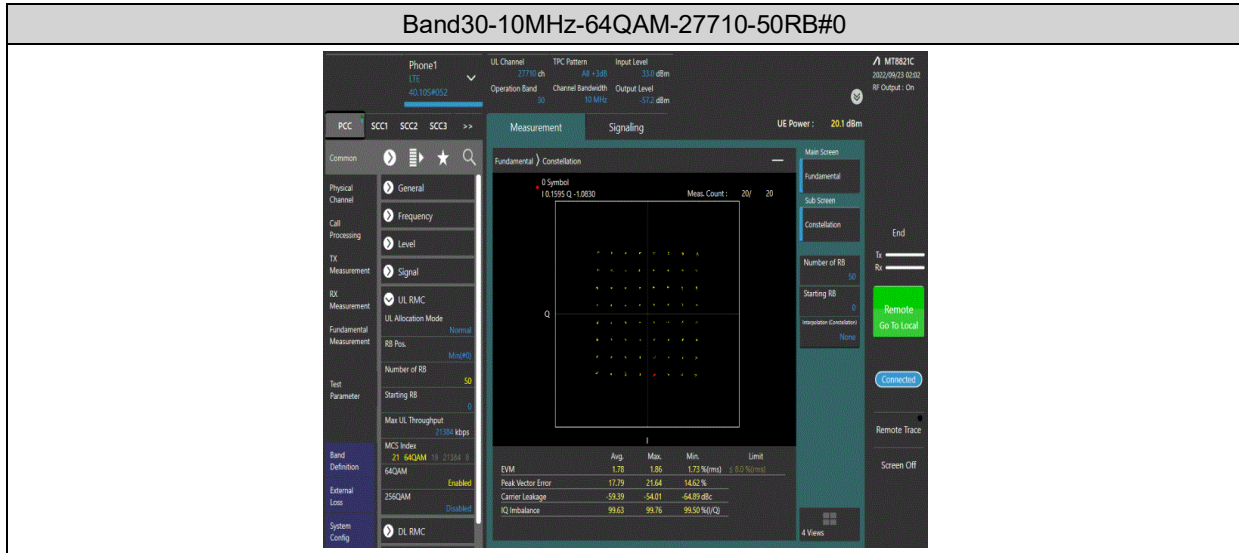


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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

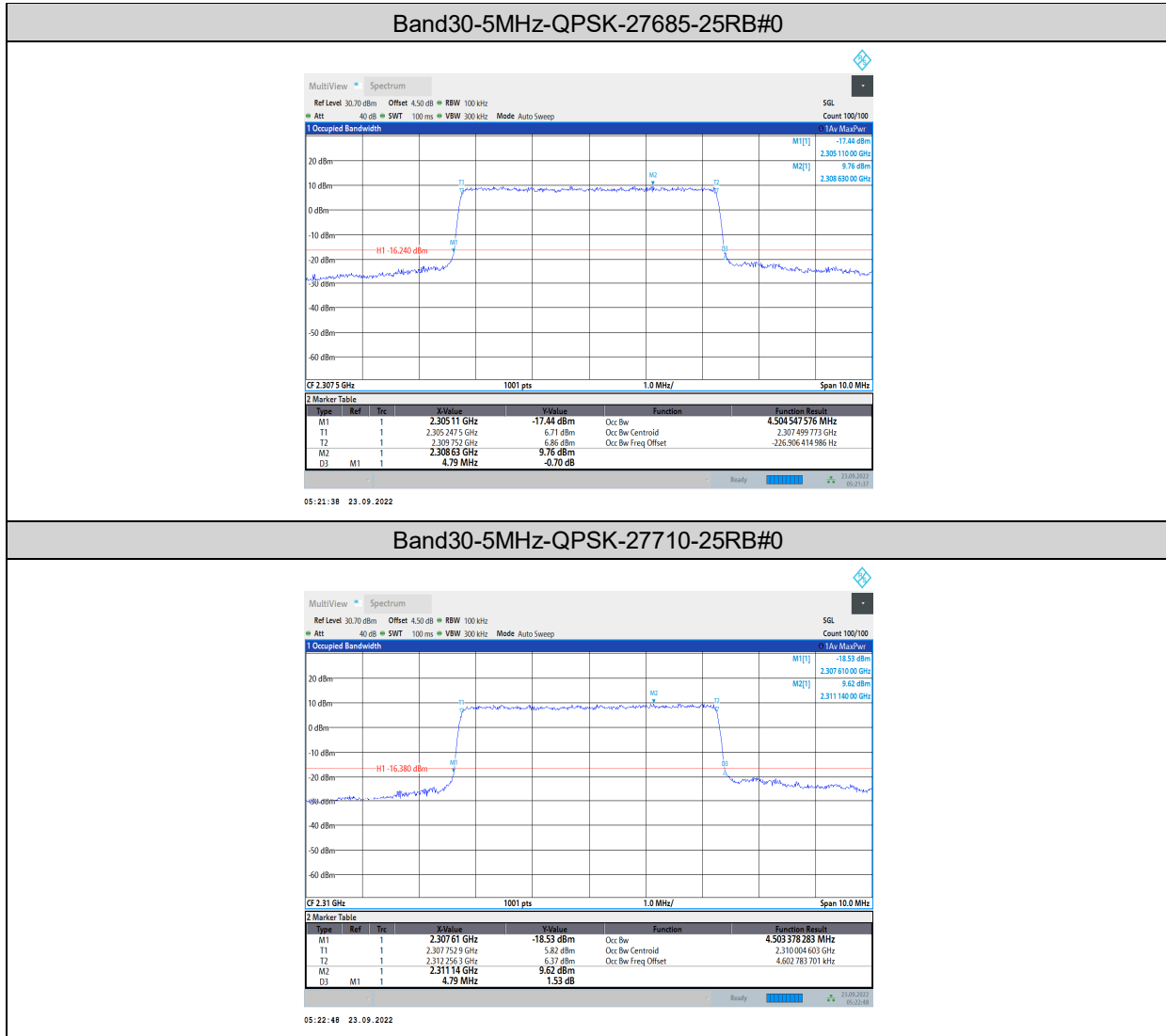
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.505	4.79	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.503	4.79	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.497	4.78	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5	4.78	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.504	4.77	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.496	4.77	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.515	4.80	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.515	4.79	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.509	4.78	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.981	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.984	9.57	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.987	9.53	PASS



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Test Graphs

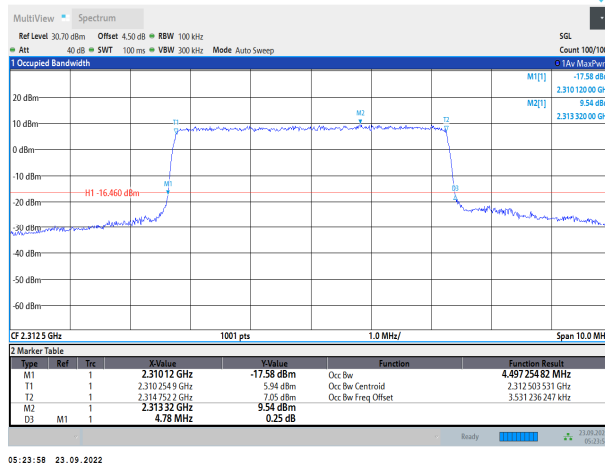


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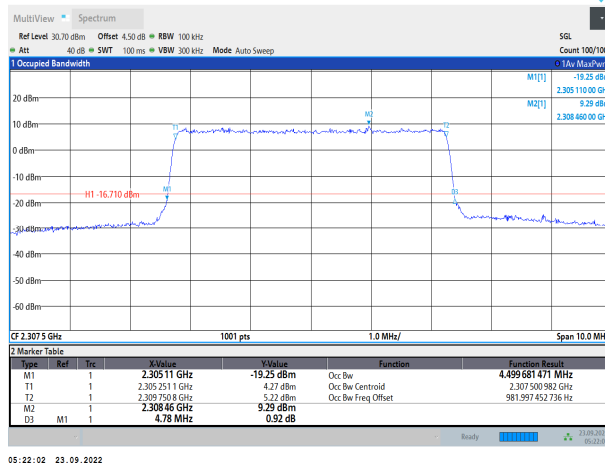
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Band30-5MHz-QPSK-27735-25RB#0



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

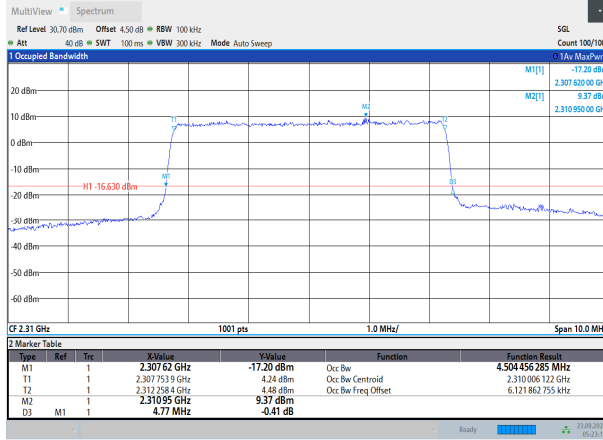


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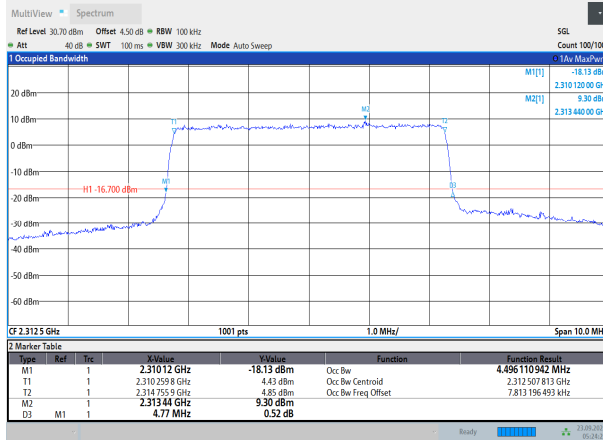
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Band30-5MHz-16QAM-27710-25RB#0



05:23:11 23.09.2022

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



05:24:21 23.09.2022

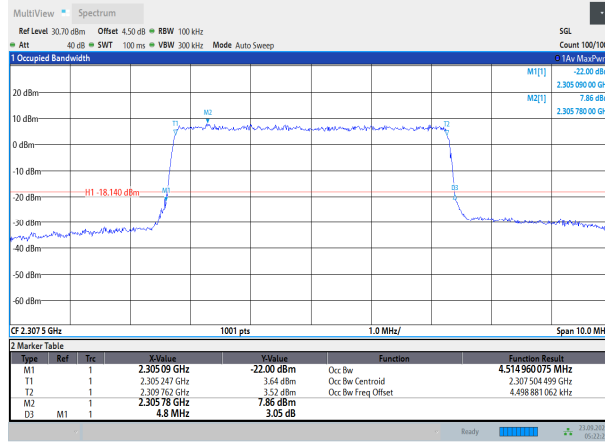


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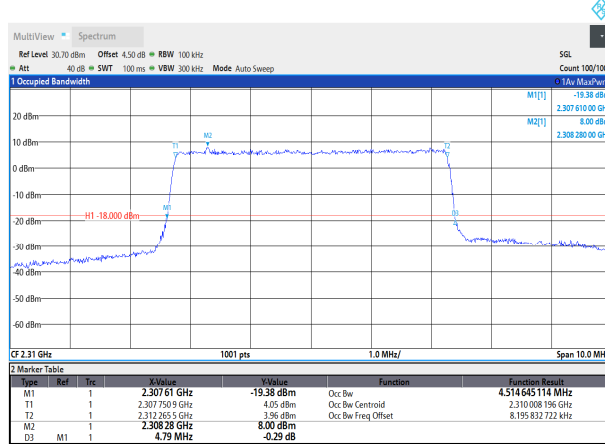
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Band30-5MHz-64QAM-27685-25RB#0



05:22:25 23.09.2022

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



05:23:35 23.09.2022

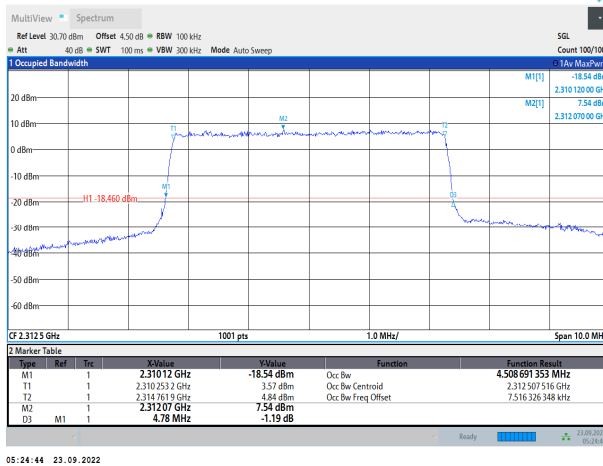


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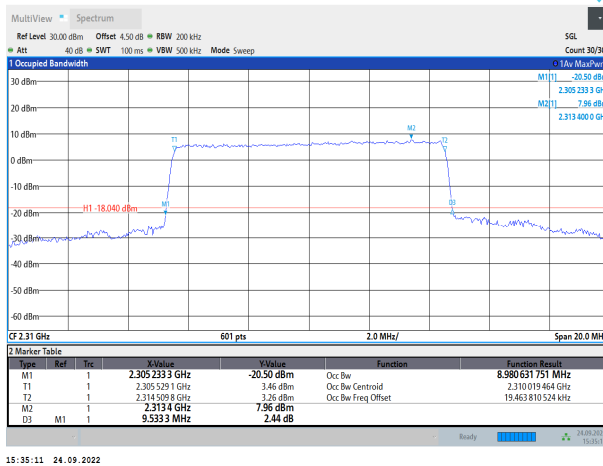
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Band30-5MHz-64QAM-27735-25RB#0



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



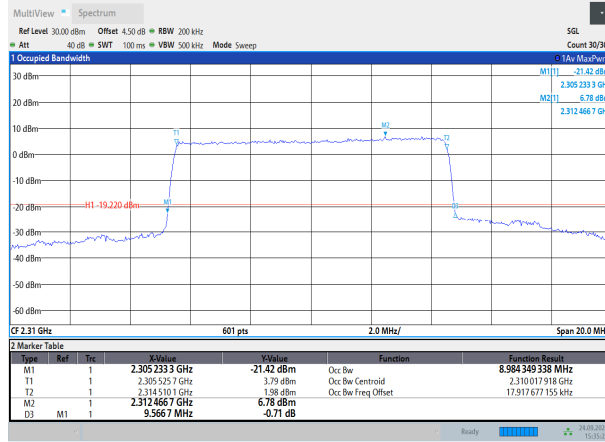
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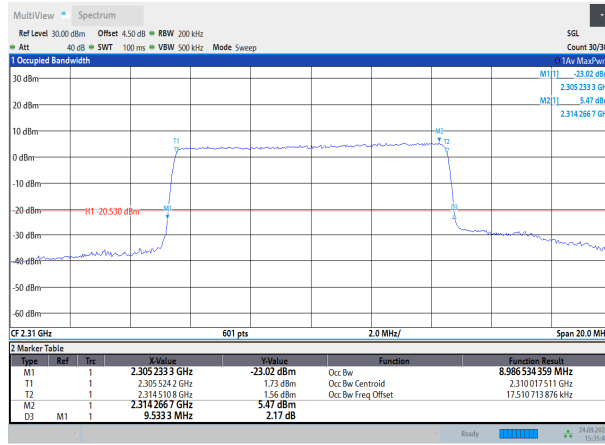
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Band30-10MHz-16QAM-27710-50RB#0



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



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## Band Edge

## Test Graphs

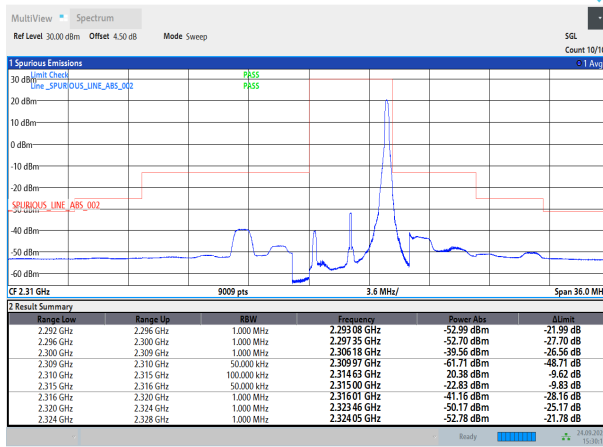


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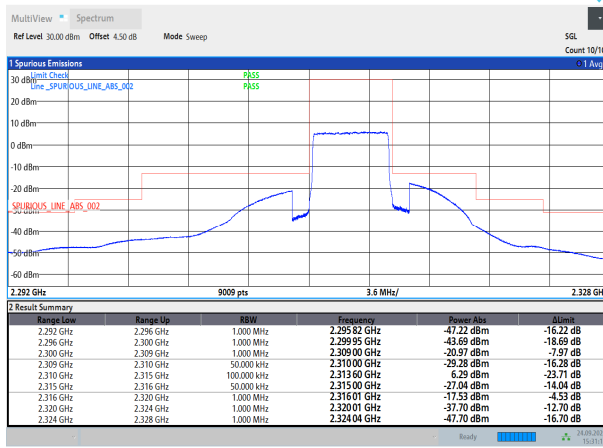
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Band30-5MHz-QPSK-27735-1RB#24



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

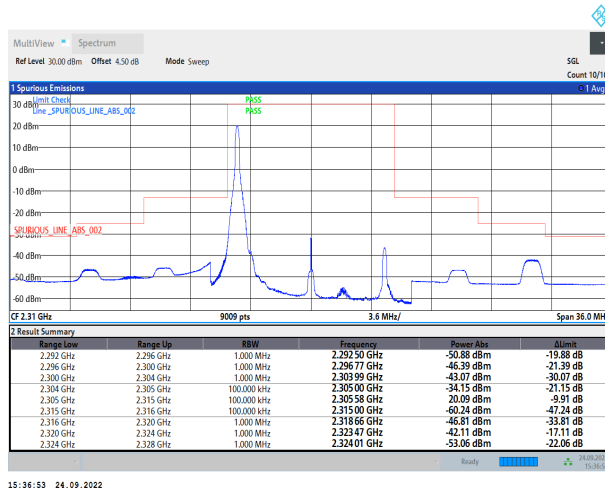


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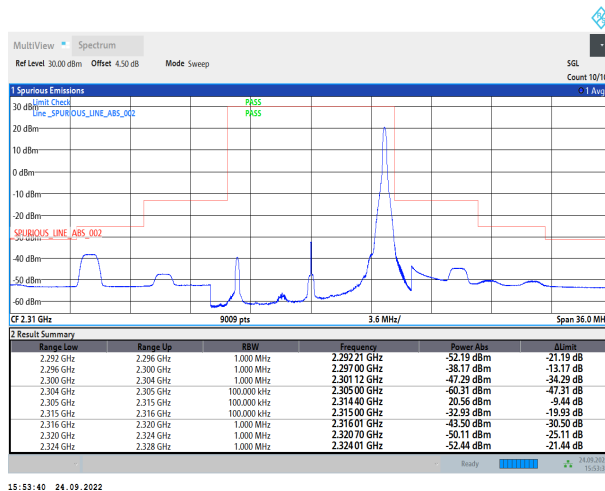
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Band30-10MHz-QPSK-27710-1RB#0



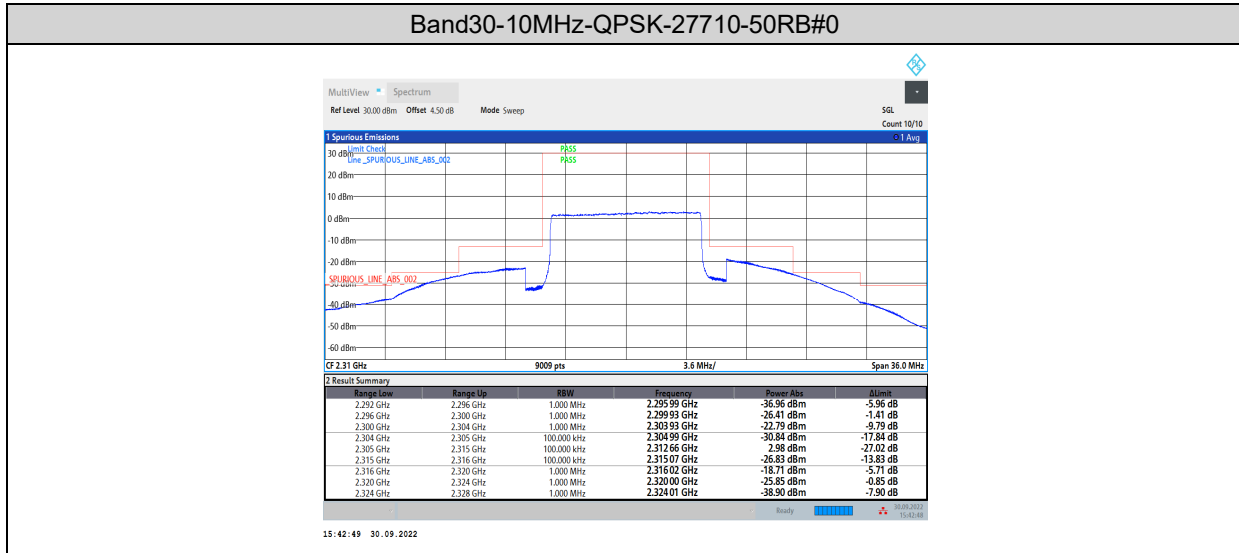
Band30-10MHz-QPSK-27710-1RB#49



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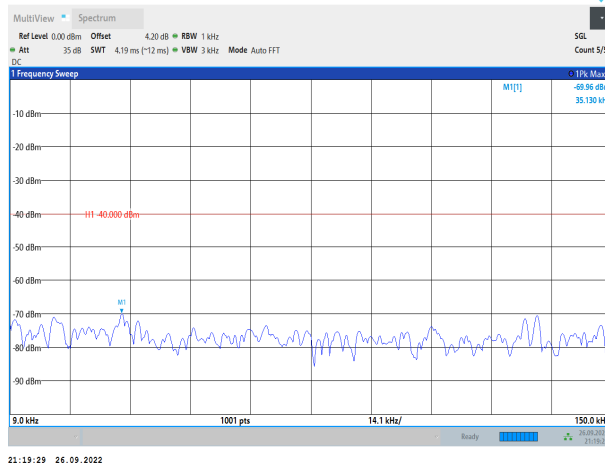
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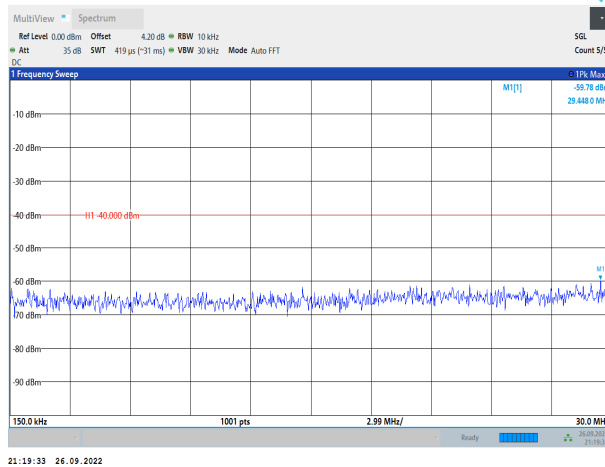
## Conducted Spurious Emission

### Test Graphs

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



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

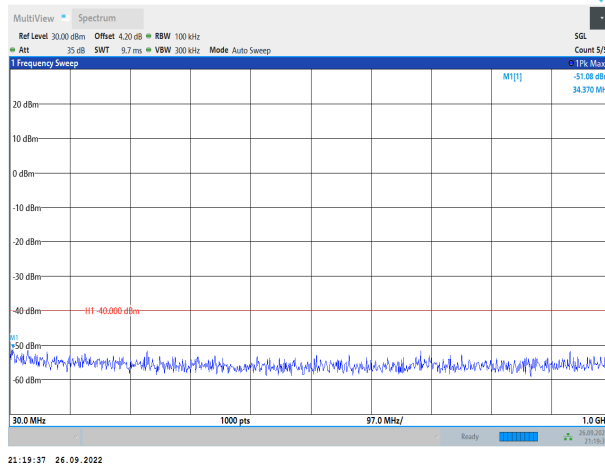


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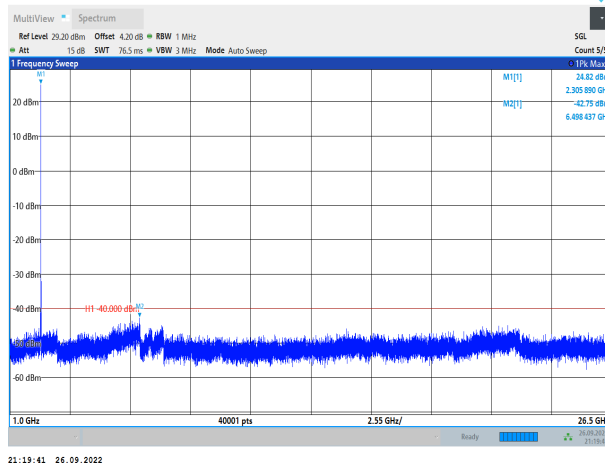
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Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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



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## Field Strength of Spurious Radiation

Test Band = LTE Band30\_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	4611.1800	52.95	-45.66	31.75	-56.23	-40.00	16.23	113	300	Horizontal
2	6916.7700	47.39	-44.01	35.98	-55.89	-40.00	15.89	302	3	Horizontal
3	9222.3600	42.75	-40.24	38.36	-54.40	-40.00	14.40	184	300	Horizontal
4	11527.9500	36.64	-37.19	38.97	-56.85	-40.00	16.85	156	152	Horizontal
5	13833.5400	39.04	-36.08	39.99	-52.31	-40.00	12.31	198	135	Horizontal
6	16139.1300	40.63	-34.58	37.69	-51.52	-40.00	11.52	147	240	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	4611	55.08	-45.66	31.74	-54.10	-40.00	14.10	284	287	Vertical
2	6916.7700	52.41	-44.01	35.98	-50.87	-40.00	10.87	126	76	Vertical
3	9222.3600	47.20	-40.24	38.36	-49.95	-40.00	9.95	158	61	Vertical
4	11527.9500	39.44	-37.19	38.97	-54.05	-40.00	14.05	175	47	Vertical
5	13833.5400	39.14	-36.08	39.99	-52.21	-40.00	12.21	198	108	Vertical
6	16139.1300	41.13	-34.58	37.69	-51.02	-40.00	11.02	146	317	Vertical



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Test Band = LTE Band30\_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	4610.6800	52.72	-45.66	31.74	-56.46	-40.00	16.46	255	136	Horizontal
2	6916.0200	47.76	-44.01	35.98	-55.53	-40.00	15.53	142	164	Horizontal
3	9221.3600	42.06	-40.24	38.36	-55.09	-40.00	15.09	133	136	Horizontal
4	11526.7000	37.54	-37.20	38.97	-55.95	-40.00	15.95	236	299	Horizontal
5	13832.0400	38.39	-36.09	39.99	-52.97	-40.00	12.97	256	120	Horizontal
6	16137.3800	42.23	-34.58	37.69	-49.91	-40.00	9.91	296	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	4610.6800	53.96	-45.66	31.74	-55.22	-40.00	15.22	215	287	Vertical
2	6916.0200	50.34	-44.01	35.98	-52.95	-40.00	12.95	188	300	Vertical
3	9221.25	47.99	-40.24	38.36	-49.16	-40.00	9.16	149	61	Vertical
4	11526.7000	39.32	-37.20	38.97	-54.17	-40.00	14.17	165	135	Vertical
5	13832.0400	38.42	-36.09	39.99	-52.94	-40.00	12.94	132	17	Vertical
6	16137.3800	40.67	-34.58	37.69	-51.47	-40.00	11.47	124	151	Vertical



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Test Band = LTE Band30\_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	4615.6800	54.28	-45.66	31.76	-54.88	-40.00	14.88	248	303	Horizontal
2	6923.5200	47.53	-43.97	35.99	-55.71	-40.00	15.71	169	46	Horizontal
3	9231	45.34	-40.24	38.36	-51.80	-40.00	11.80	142	62	Horizontal
4	11539.2000	36.91	-37.15	38.96	-56.54	-40.00	16.54	175	0	Horizontal
5	13847.0400	38.60	-35.95	40.00	-52.61	-40.00	12.61	142	18	Horizontal
6	16154.8800	41.66	-34.60	37.67	-50.52	-40.00	10.52	133	3	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	4615.5	54.77	-45.66	31.76	-54.39	-40.00	14.39	222	286	Vertical
2	6923.5200	53.49	-43.97	35.99	-49.75	-40.00	9.75	185	286	Vertical
3	9231.3600	50.17	-40.24	38.36	-46.97	-40.00	6.97	178	43	Vertical
4	11539.2000	42.48	-37.15	38.96	-50.97	-40.00	10.97	198	60	Vertical
5	13847.0400	38.32	-35.95	40.00	-52.89	-40.00	12.89	146	44	Vertical
6	16154.8800	42.49	-34.60	37.67	-49.69	-40.00	9.69	132	105	Vertical



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Test Band = LTE Band30\_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	4620.6800	54.97	-45.66	31.77	-54.17	-40.00	14.17	214	302	Horizontal
2	6931.0200	49.81	-43.93	36.00	-53.38	-40.00	13.38	199	212	Horizontal
3	9241.3600	45.55	-40.24	38.37	-51.58	-40.00	11.58	141	152	Horizontal
4	11551.7000	37.05	-37.10	38.94	-56.36	-40.00	16.36	153	3	Horizontal
5	13862.0400	38.70	-35.81	40.02	-52.35	-40.00	12.35	126	270	Horizontal
6	16172.3800	42.25	-34.61	37.65	-49.97	-40.00	9.97	162	166	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	4620.6800	55.93	-45.66	31.77	-53.21	-40.00	13.21	245	287	Vertical
2	6931.0200	55.47	-43.93	36.00	-47.72	-40.00	7.72	162	74	Vertical
3	9241.3600	51.49	-40.24	38.37	-45.64	-40.00	5.64	132	74	Vertical
4	11551.7000	38.25	-37.10	38.94	-55.16	-40.00	15.16	128	166	Vertical
5	13862.0400	39.46	-35.81	40.02	-51.59	-40.00	11.59	145	105	Vertical
6	16172.3800	40.51	-34.61	37.65	-51.71	-40.00	11.71	199	76	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## 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	-7.10	-0.003074	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	1.00	0.000433	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-6.00	-0.002597	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	3.90	0.001688	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-8.50	-0.003680	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	0.90	0.000390	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	7.00	0.003030	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	0.90	0.000390	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	1.00	0.000433	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-5.70	-0.002468	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	-6.00	-0.002597	PASS

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