Appendix B.12

LTE Band 30

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Effective (Isotropic) Radiated Power Output Data

Test ResultAnt7

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	23.1	20.04	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	23.09	20.03	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	23.05	19.99	23.98	PASS
Band30	5MHz	QPSK	27685	25RB#0	22.15	19.09	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.47	19.41	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	23.11	20.05	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	22.97	19.91	23.98	PASS
Band30	5MHz	QPSK	27710	25RB#0	22.11	19.05	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.77	19.71	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	23.01	19.95	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	23.15	20.09	23.98	PASS
Band30	5MHz	QPSK	27735	25RB#0	22.13	19.07	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#0	22.23	19.17	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#12	22.34	19.28	23.98	PASS
Band30	5MHz	16QAM	27685	1RB#24	22.38	19.32	23.98	PASS
Band30	5MHz	16QAM	27685	25RB#0	21.26	18.2	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#0	22.29	19.23	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#12	22.28	19.22	23.98	PASS
Band30	5MHz	16QAM	27710	1RB#24	22.24	19.18	23.98	PASS
Band30	5MHz	16QAM	27710	25RB#0	21.11	18.05	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#0	22.29	19.23	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#12	22.08	19.02	23.98	PASS
Band30	5MHz	16QAM	27735	1RB#24	22.21	19.15	23.98	PASS
Band30	5MHz	16QAM	27735	25RB#0	21.19	18.13	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#0	21.35	18.29	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#12	21.25	18.19	23.98	PASS
Band30	5MHz	64QAM	27685	1RB#24	21.37	18.31	23.98	PASS

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Band30	5MHz	64QAM	27685	25RB#0	20	16.94	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#0	21.24	18.18	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#12	21.23	18.17	23.98	PASS
Band30	5MHz	64QAM	27710	1RB#24	21.1	18.04	23.98	PASS
Band30	5MHz	64QAM	27710	25RB#0	20.09	17.03	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#0	21.28	18.22	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#12	21.29	18.23	23.98	PASS
Band30	5MHz	64QAM	27735	1RB#24	21.29	18.23	23.98	PASS
Band30	5MHz	64QAM	27735	25RB#0	20.08	17.02	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#0	18.27	15.21	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#12	18.15	15.09	23.98	PASS
Band30	5MHz	256QAM	27685	1RB#24	18.4	15.34	23.98	PASS
Band30	5MHz	256QAM	27685	25RB#0	18.1	15.04	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#0	18.31	15.25	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#12	18.27	15.21	23.98	PASS
Band30	5MHz	256QAM	27710	1RB#24	18.12	15.06	23.98	PASS
Band30	5MHz	256QAM	27710	25RB#0	18.2	15.14	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#0	18.36	15.3	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#12	18.2	15.14	23.98	PASS
Band30	5MHz	256QAM	27735	1RB#24	18.33	15.27	23.98	PASS
Band30	5MHz	256QAM	27735	25RB#0	18.09	15.03	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	23.24	20.18	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	23.12	20.06	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#49	23.13	20.07	23.98	PASS
Band30	10MHz	QPSK	27710	50RB#0	22.23	19.17	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#0	22.36	19.3	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#24	22.36	19.3	23.98	PASS
Band30	10MHz	16QAM	27710	1RB#49	22.2	19.14	23.98	PASS
Band30	10MHz	16QAM	27710	50RB#0	21	17.94	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#0	21.32	18.26	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#24	21.37	18.31	23.98	PASS
Band30	10MHz	64QAM	27710	1RB#49	21.33	18.27	23.98	PASS

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Band30	10MHz	64QAM	27710	50RB#0	20.13	17.07	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#0	18.1	15.04	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#24	18.39	15.33	23.98	PASS
Band30	10MHz	256QAM	27710	1RB#49	18.19	15.13	23.98	PASS
Band30	10MHz	256QAM	27710	50RB#0	18.16	15.1	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	21.81	18.75	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#12	21.90	18.84	23.98	PASS
Band30	5MHz	QPSK	27685	1RB#24	21.98	18.92	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#0	22.03	18.97	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#12	21.99	18.93	23.98	PASS
Band30	5MHz	QPSK	27710	1RB#24	21.94	18.88	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#0	22.09	19.03	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#12	22.09	19.03	23.98	PASS
Band30	5MHz	QPSK	27735	1RB#24	21.89	18.83	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#0	21.99	18.93	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#12	21.88	18.82	23.98	PASS
Band30	10MHz	QPSK	27710	1RB#24	21.92	18.86	23.98	PASS

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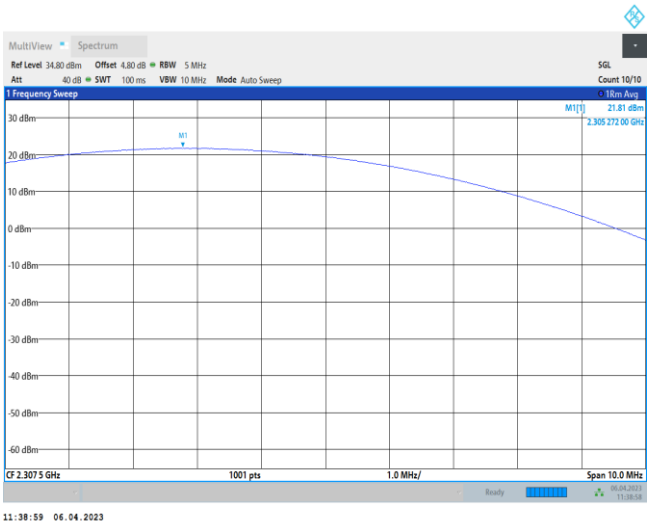
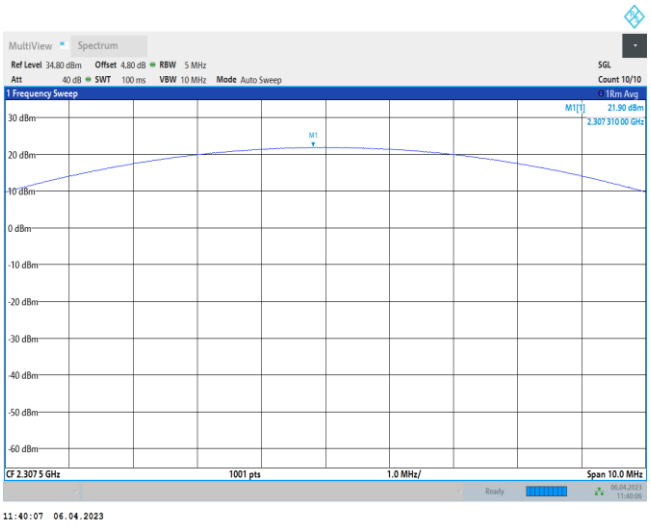
Test Graphs

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



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



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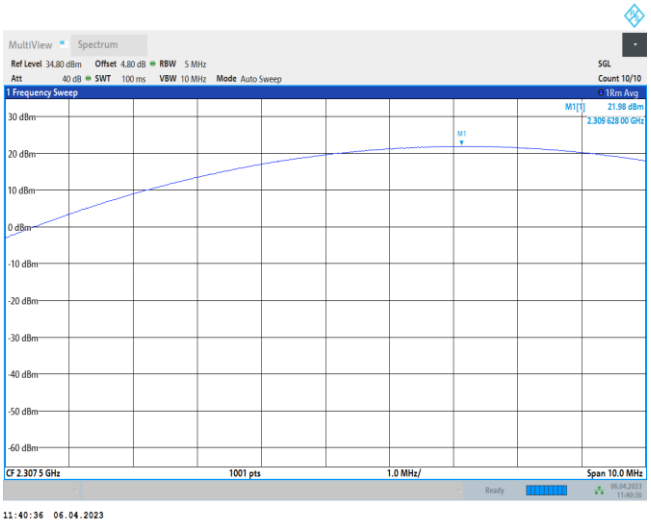
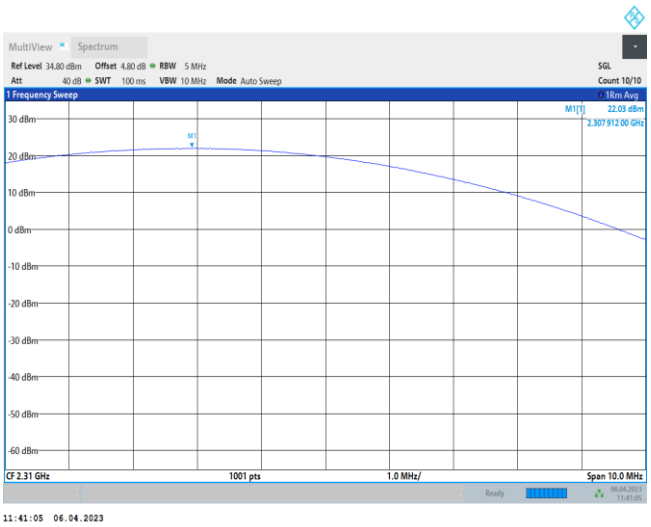
Band30-5MHz-QPSK-27685-1RB#24



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



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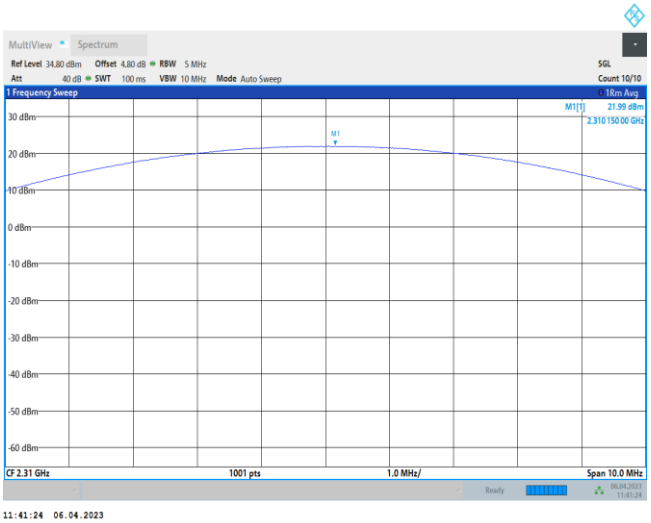
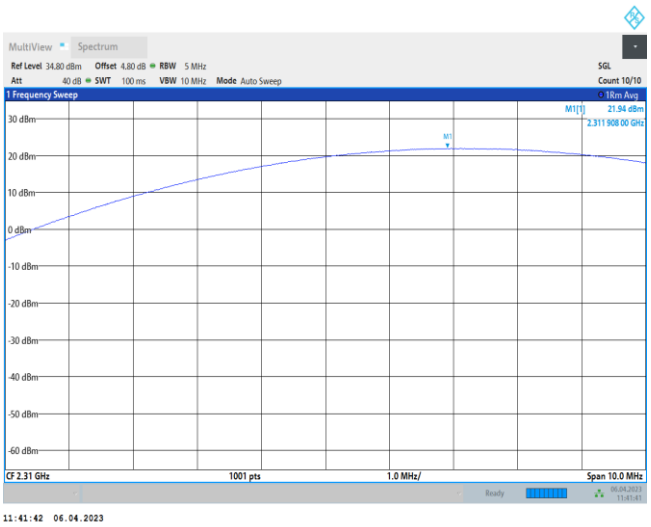
Band30-5MHz-QPSK -27710-1RB#12



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



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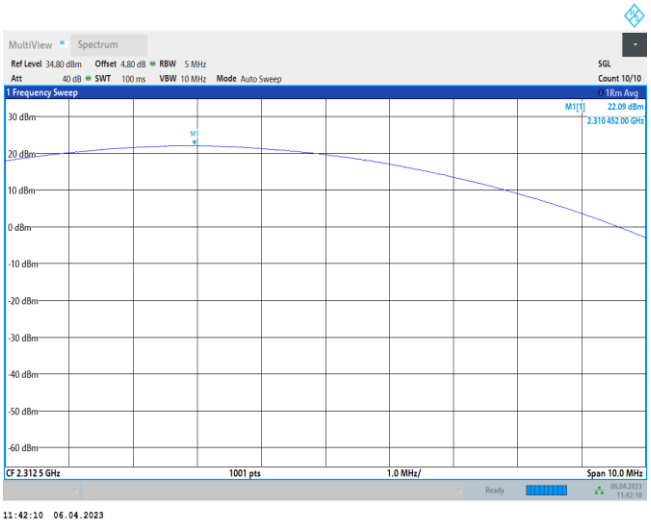
Band30-5MHz-QPSK -27735-1RB#0



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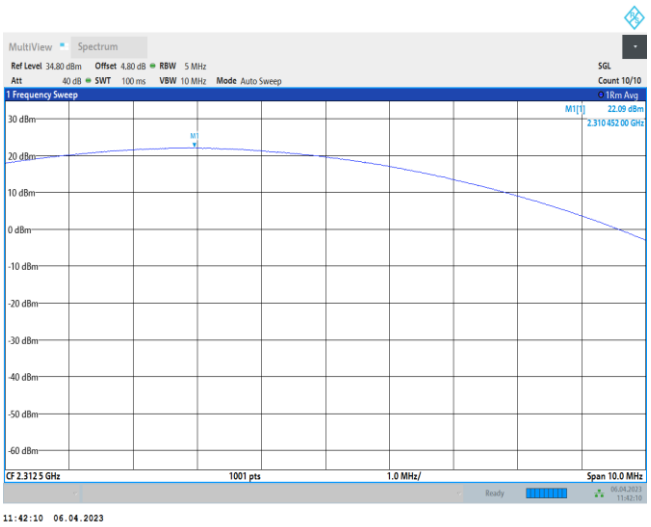

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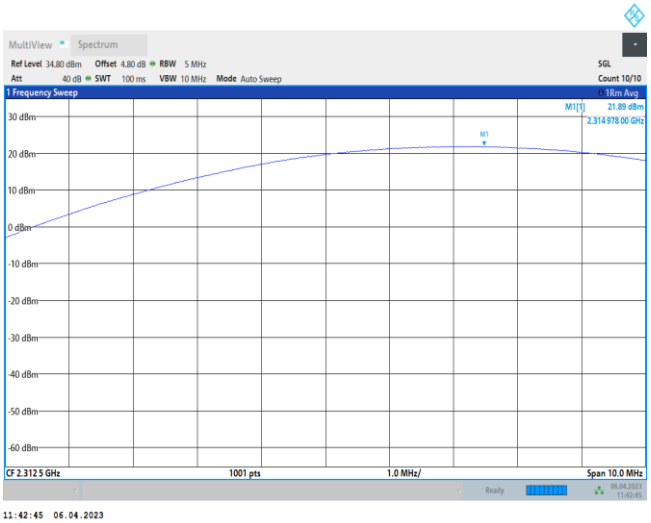
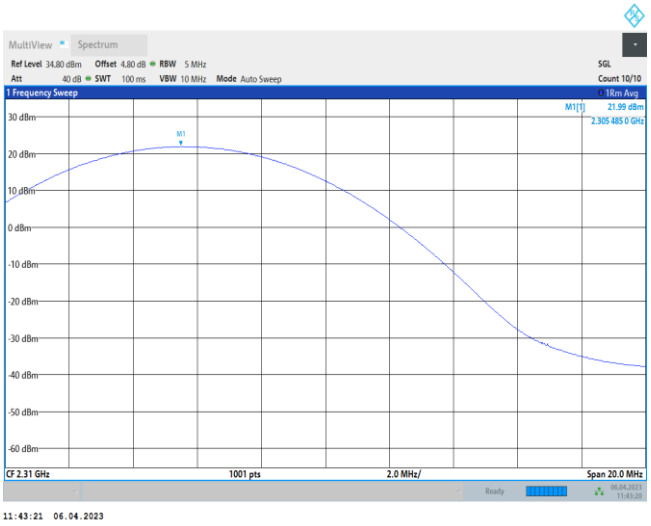
Band30-5MHz-QPSK -27735-1RB#24



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



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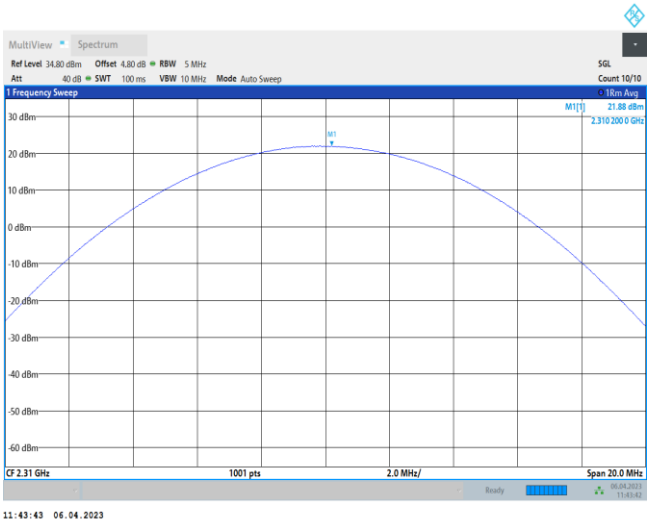

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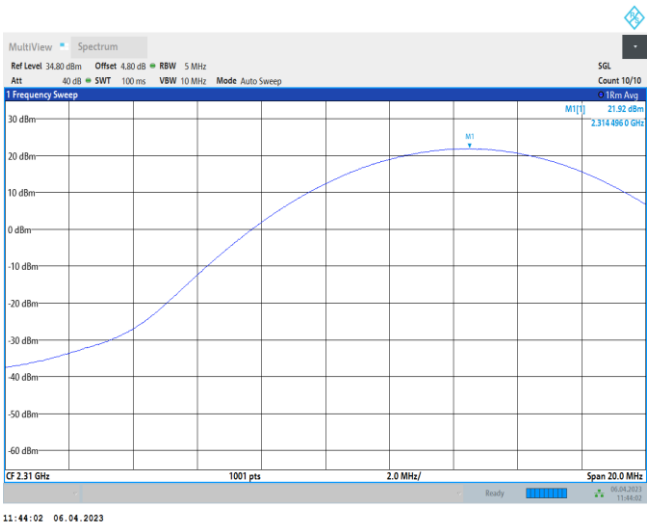

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	5.48	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	6.26	13	PASS
Band30	10MHz	64QAM	27710	50RB#0	6.62	13	PASS
Band30	10MHz	256QAM	27710	50RB#0	6.60	13	PASS

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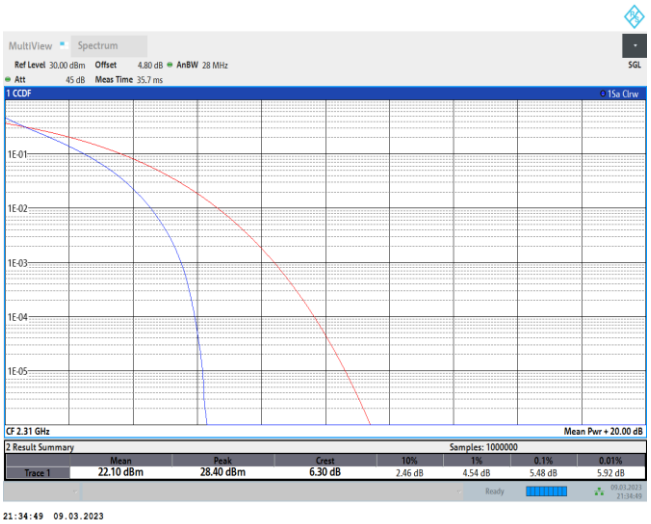
Test Graphs

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


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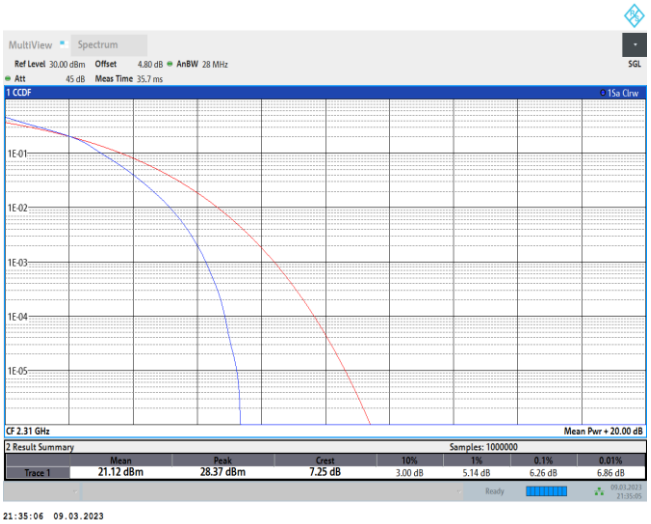

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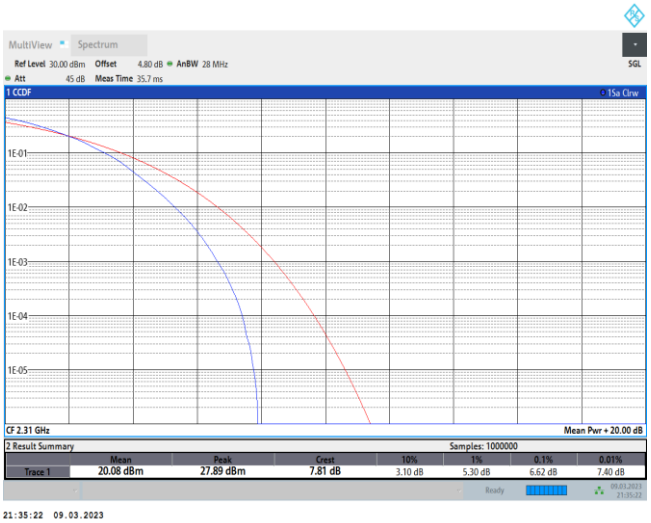
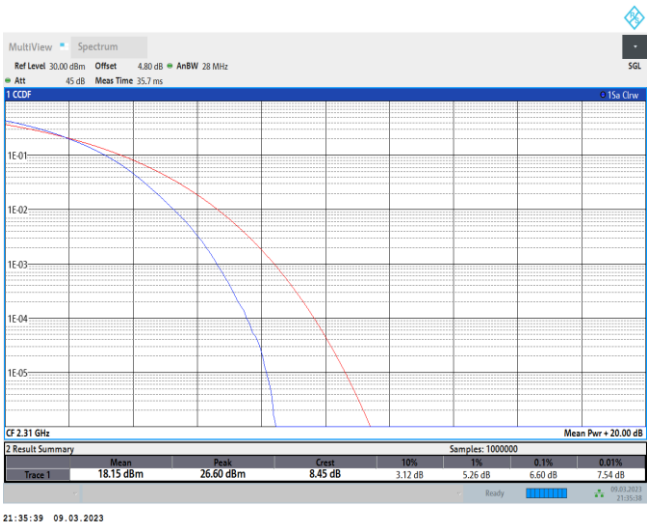
Band30-10MHz-64QAM-27710-50RB#0



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



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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	4.49	4.78	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.491	4.77	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.487	4.76	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.497	4.77	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.499	4.78	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.498	4.77	PASS
Band30	5MHz	64QAM	27685	25RB#0	4.502	4.76	PASS
Band30	5MHz	64QAM	27710	25RB#0	4.498	4.76	PASS
Band30	5MHz	64QAM	27735	25RB#0	4.498	4.78	PASS
Band30	5MHz	256QAM	27685	25RB#0	4.499	4.77	PASS
Band30	5MHz	256QAM	27710	25RB#0	4.499	4.77	PASS
Band30	5MHz	256QAM	27735	25RB#0	4.495	4.78	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.976	9.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.976	9.53	PASS
Band30	10MHz	64QAM	27710	50RB#0	8.988	9.57	PASS
Band30	10MHz	256QAM	27710	50RB#0	8.976	9.53	PASS

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Test Graphs

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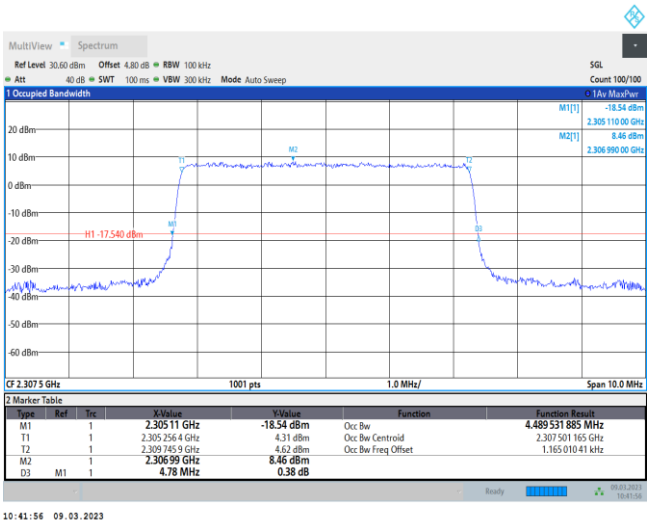

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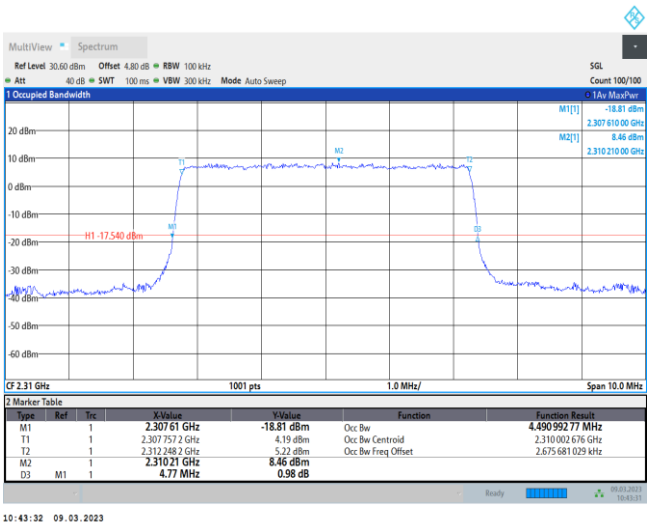

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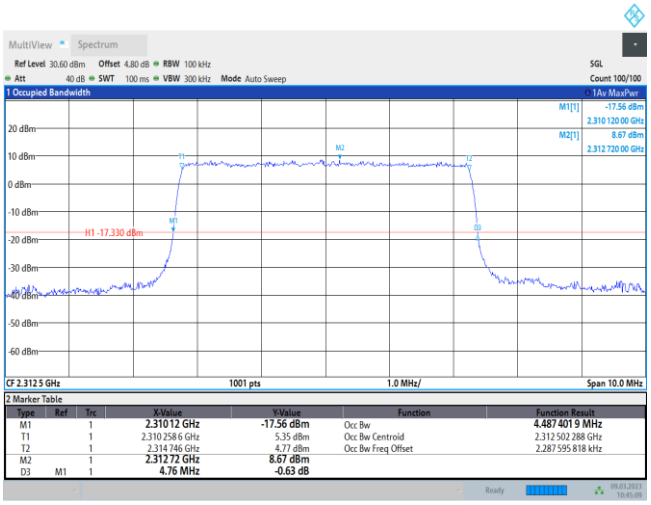

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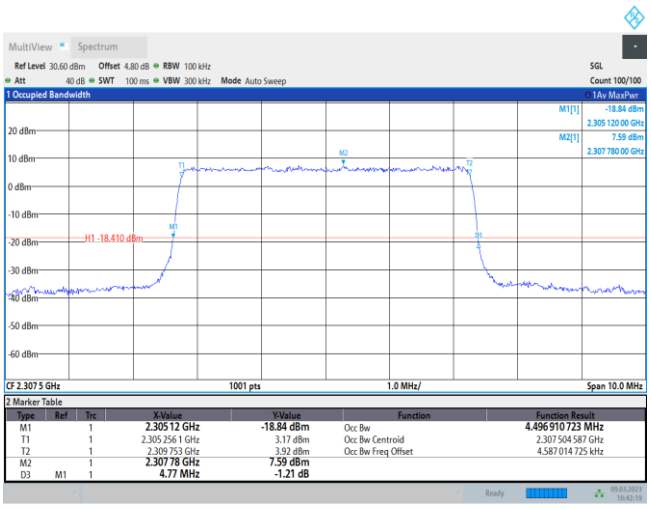

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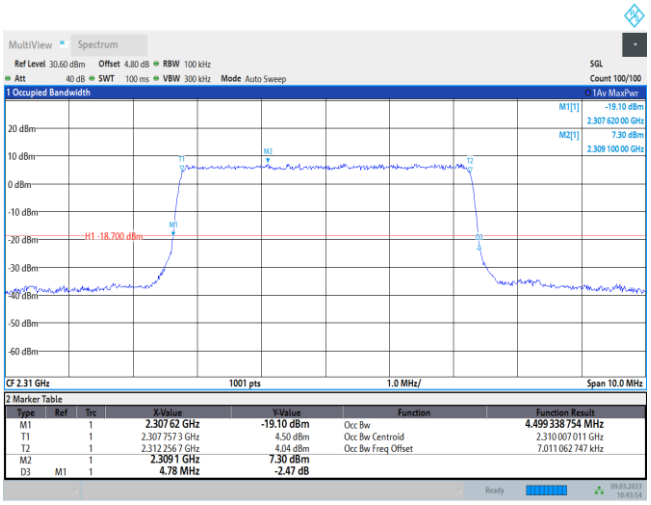

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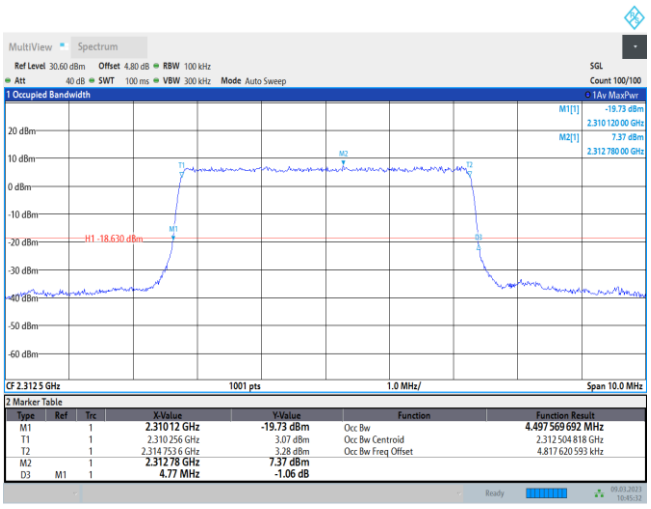

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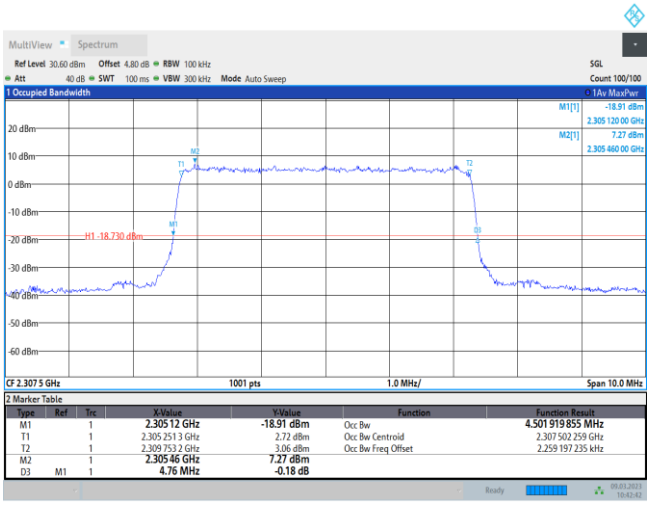

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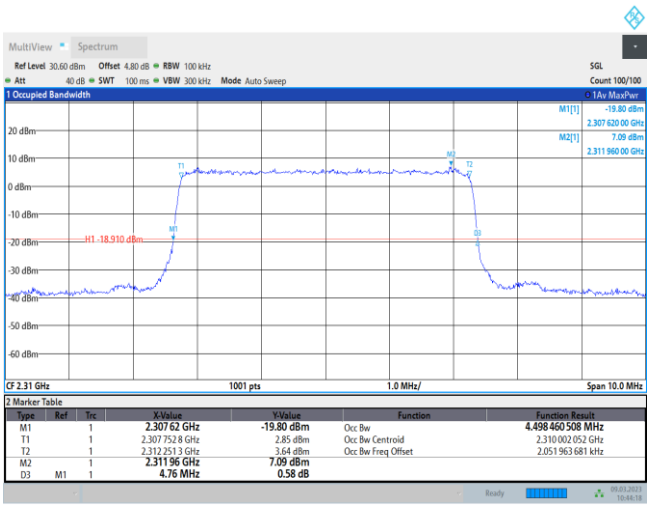

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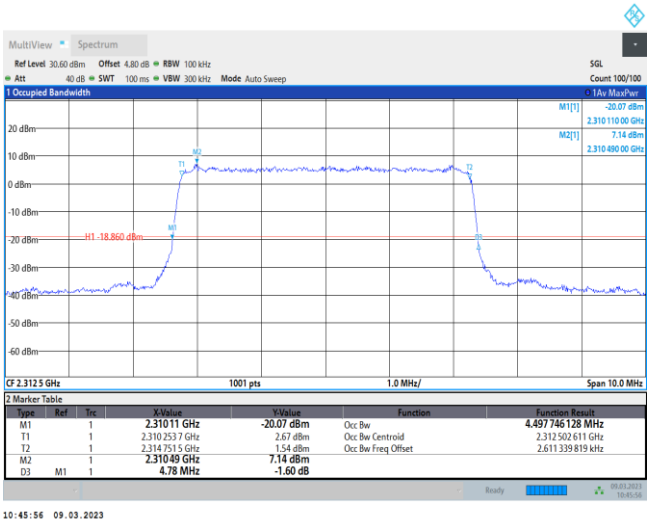
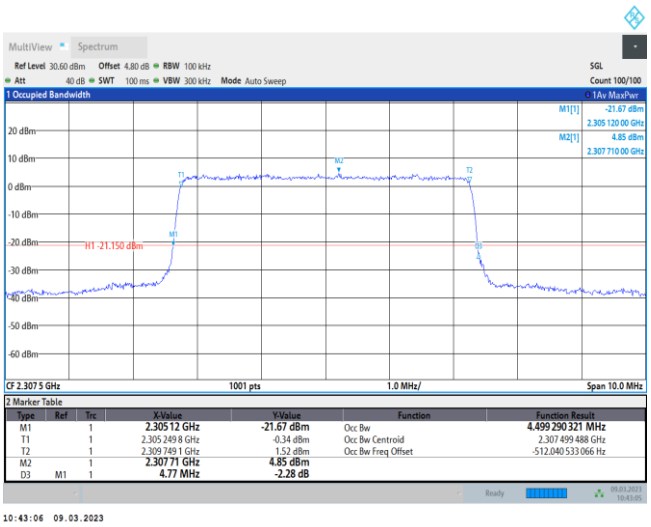
Band30-5MHz-64QAM-27735-25RB#0



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



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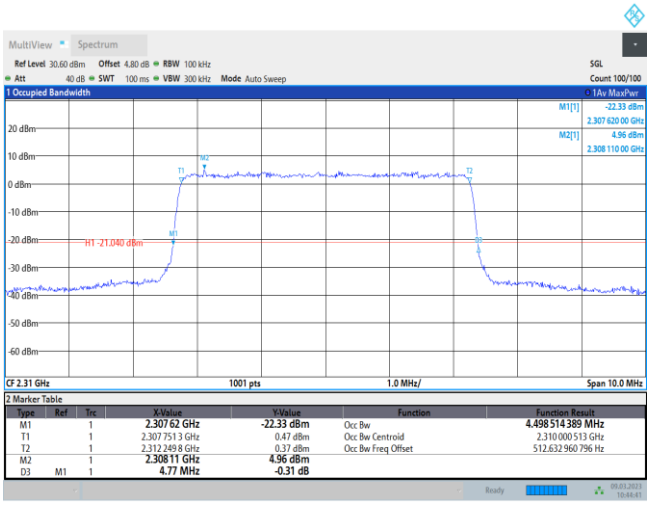
Band30-5MHz-256QAM-27710-25RB#0



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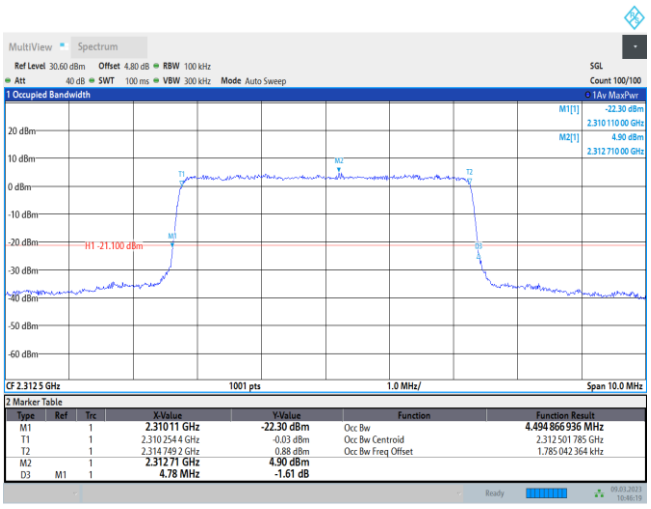

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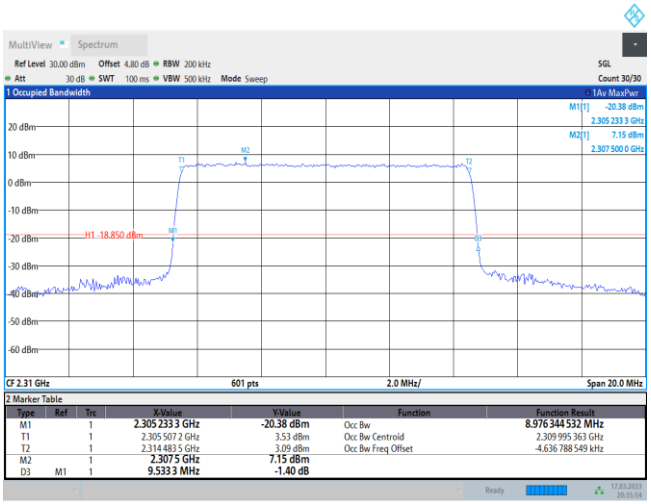
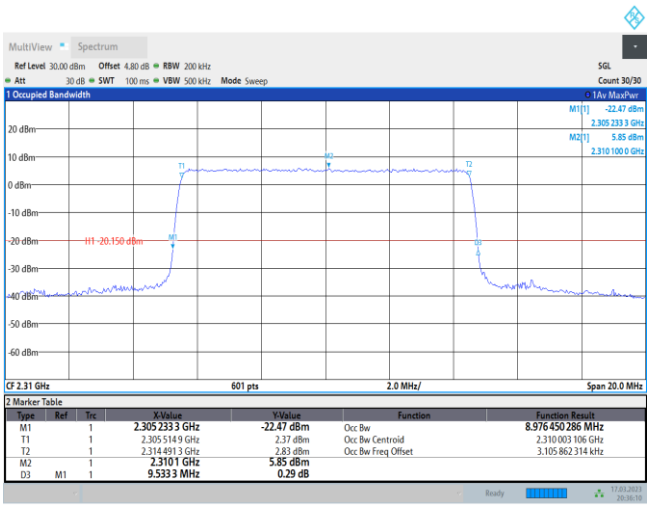
Band30-10MHz-QPSK-27710-50RB#0



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



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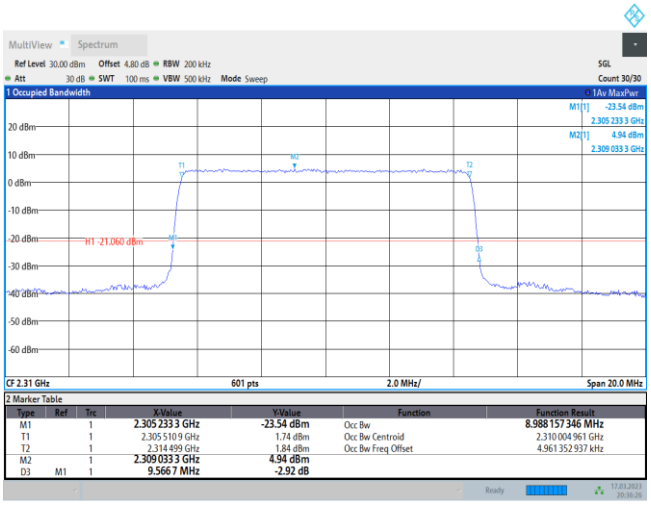
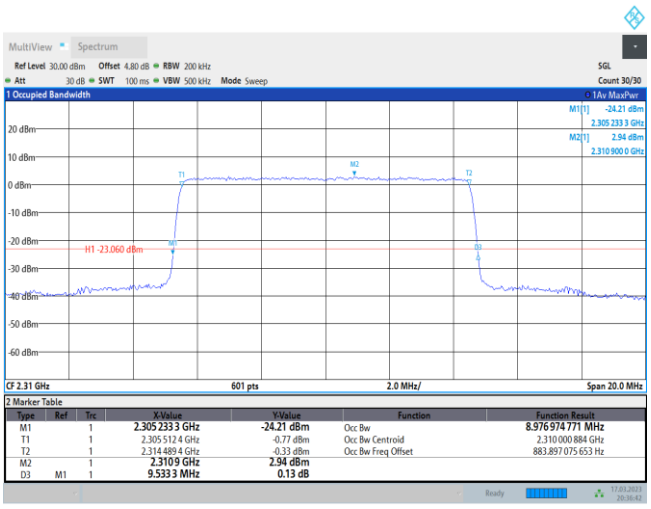
Band30-10MHz-64QAM-27710-50RB#0



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



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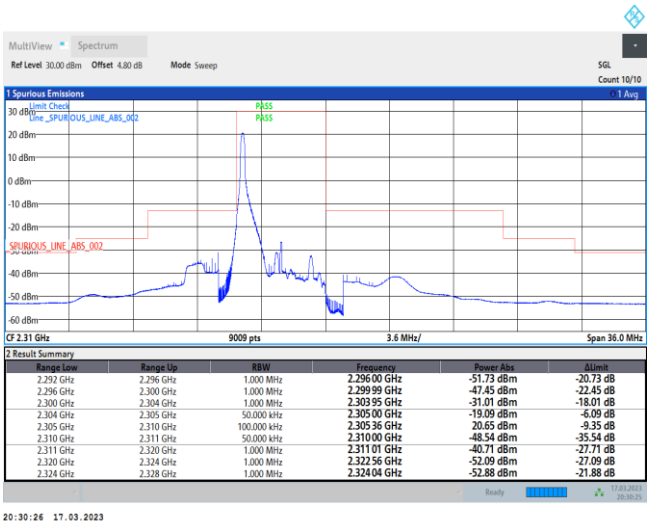
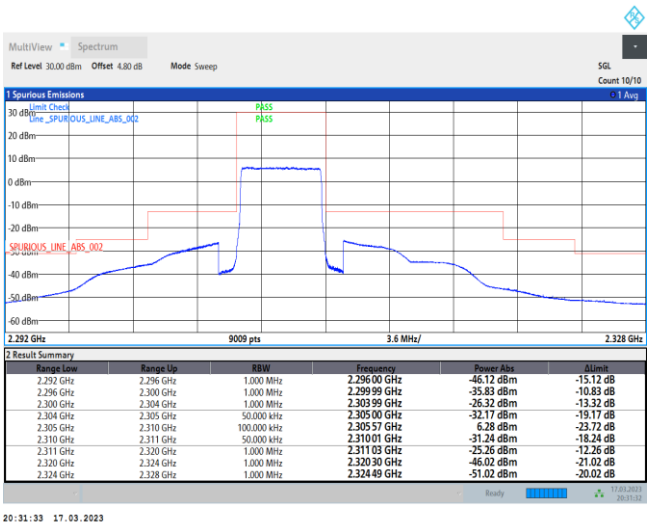
Band Edge

Test Graphs

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



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



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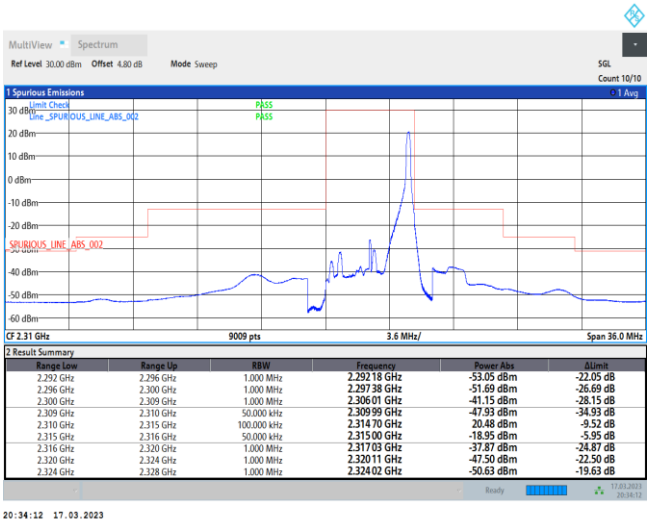

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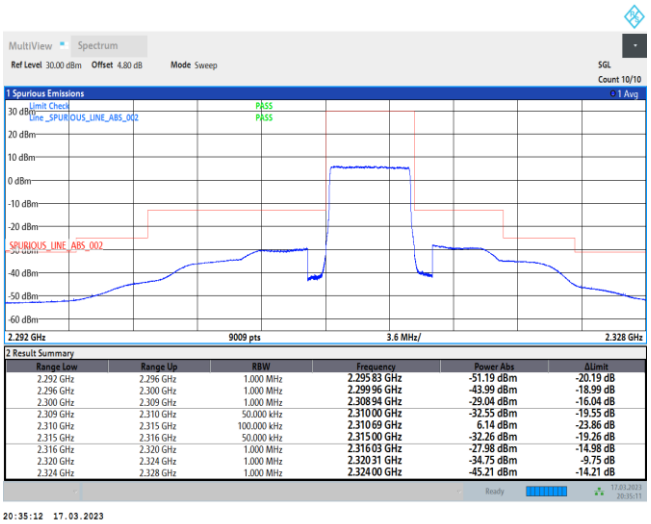

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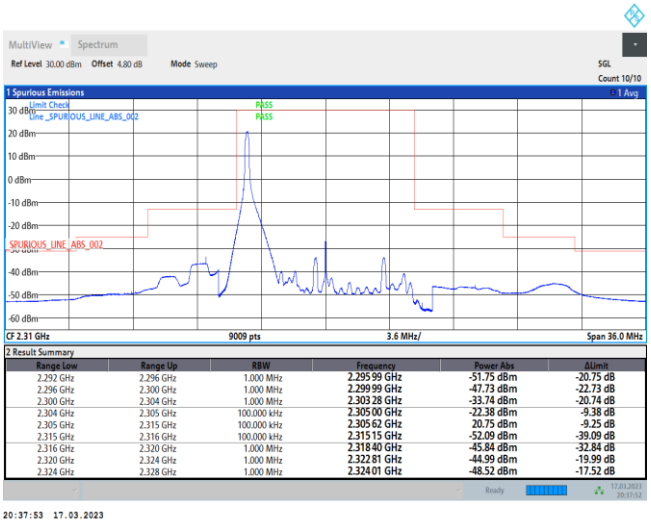
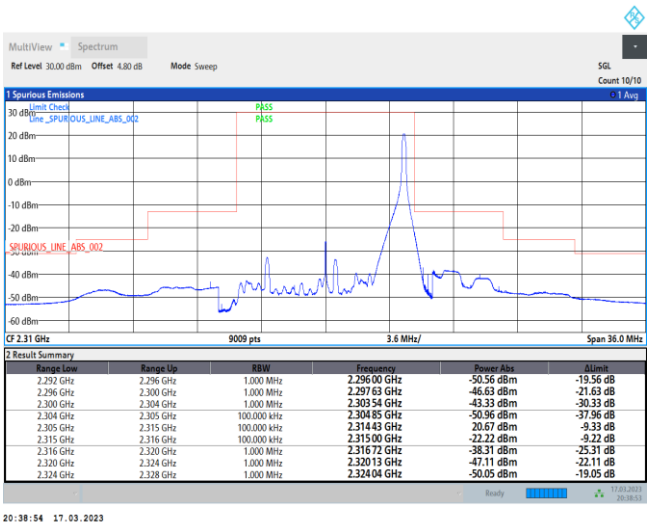
Band30-10MHz-QPSK-27710-1RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.295 99 GHz	-51.75 dBm	-20.75 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 99 GHz	-47.73 dBm	-22.73 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 28 GHz	-33.74 dBm	-20.74 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.305 00 GHz	-22.38 dBm	-9.38 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.305 62 GHz	20.75 dBm	-9.25 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 15 GHz	-52.09 dBm	-39.09 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.318 40 GHz	-45.84 dBm	-32.84 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.322 81 GHz	-44.99 dBm	-19.99 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 01 GHz	-48.52 dBm	-17.52 dB

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



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.296 00 GHz	-50.56 dBm	-19.56 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.297 63 GHz	-46.63 dBm	-21.63 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 54 GHz	-43.33 dBm	-30.33 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.304 85 GHz	-50.96 dBm	-37.96 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.314 43 GHz	20.67 dBm	-9.33 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 00 GHz	-22.22 dBm	-9.22 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.316 72 GHz	-38.31 dBm	-25.31 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.320 13 GHz	-47.11 dBm	-22.11 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 04 GHz	-50.05 dBm	-19.05 dB

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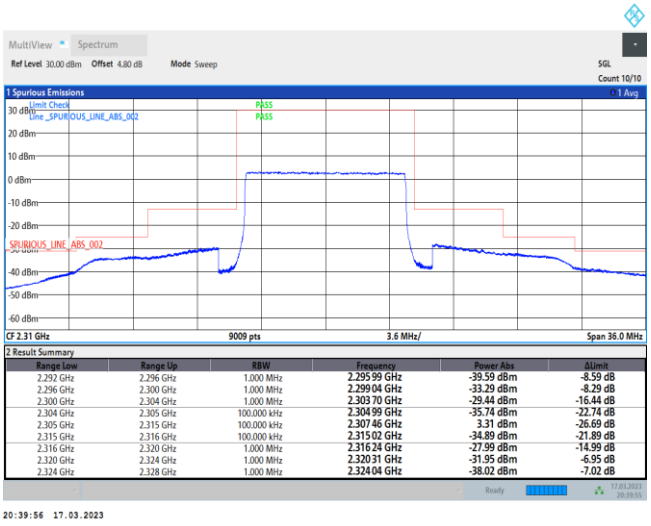
Band30-10MHz-QPSK-27710-50RB#0



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.292 GHz	2.296 GHz	1.000 MHz	2.295 99 GHz	-39.59 dBm	-8.59 dB
2.296 GHz	2.300 GHz	1.000 MHz	2.299 04 GHz	-33.29 dBm	-8.29 dB
2.300 GHz	2.304 GHz	1.000 MHz	2.303 70 GHz	-29.44 dBm	-16.44 dB
2.304 GHz	2.305 GHz	100.000 kHz	2.304 99 GHz	-35.74 dBm	-22.74 dB
2.305 GHz	2.315 GHz	100.000 kHz	2.307 46 GHz	3.31 dBm	-26.69 dB
2.315 GHz	2.316 GHz	100.000 kHz	2.315 02 GHz	-34.89 dBm	-21.89 dB
2.316 GHz	2.320 GHz	1.000 MHz	2.316 24 GHz	-27.99 dBm	-14.99 dB
2.320 GHz	2.324 GHz	1.000 MHz	2.320 31 GHz	-31.95 dBm	-6.95 dB
2.324 GHz	2.328 GHz	1.000 MHz	2.324 04 GHz	-38.02 dBm	-7.02 dB

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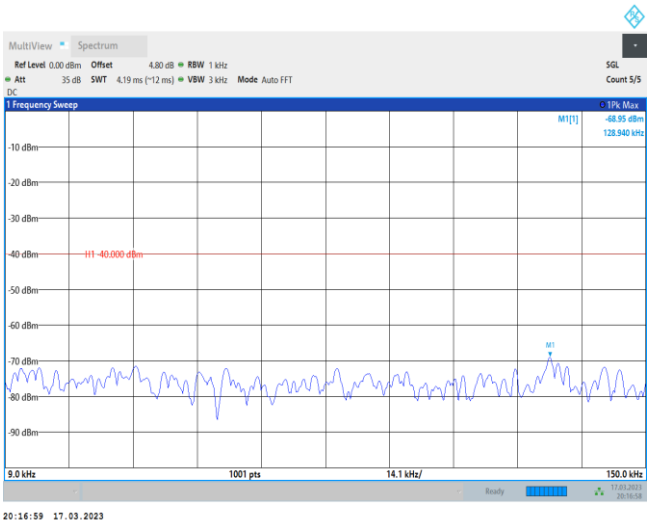
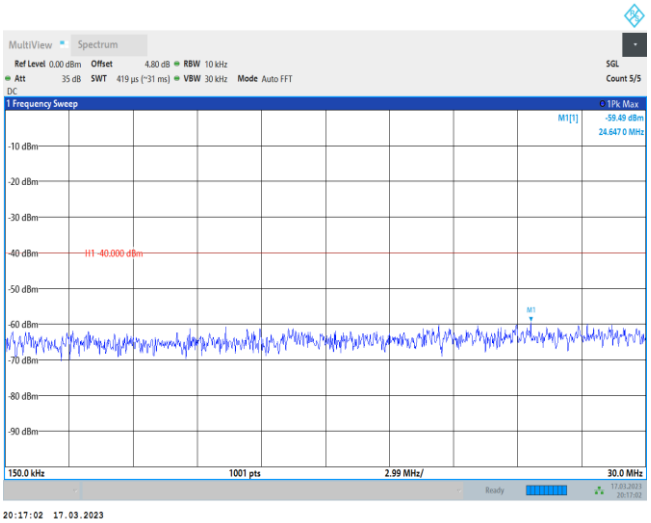
Conducted Spurious Emission

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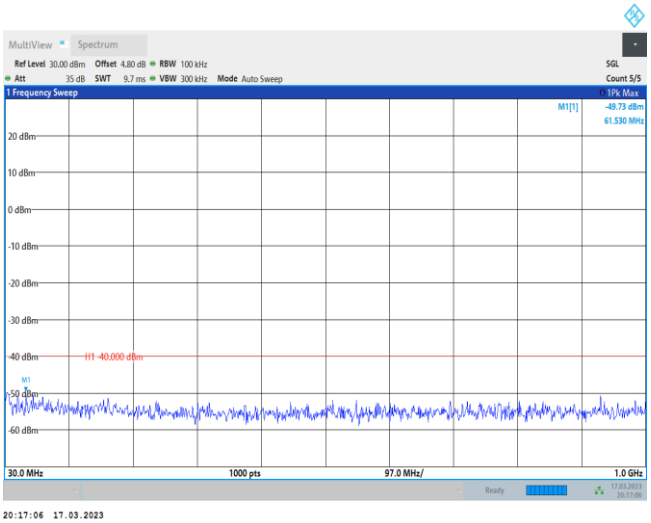
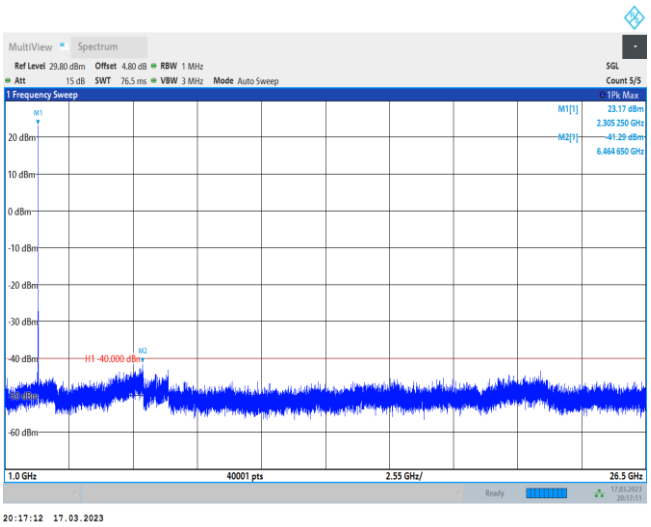
Band30-10MHz-QPSK-27710-1RB#0-Range3:30~1000MHz



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	46.10	-45.66	31.74	-63.08	-40.00	23.08	215	138	Horizontal
2	6916.5	44.22	-44.01	35.98	-59.07	-40.00	19.07	136	272	Horizontal
3	9222.3600	32.34	-40.24	38.36	-64.81	-40.00	24.81	259	288	Horizontal
4	11527.9500	29.12	-37.19	38.97	-64.37	-40.00	24.37	148	123	Horizontal
5	13833.5400	30.74	-36.08	39.99	-60.61	-40.00	20.61	175	0	Horizontal
6	16139.1300	33.33	-34.58	37.69	-58.82	-40.00	18.82	192	196	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	51.45	-45.66	31.74	-57.73	-40.00	17.73	245	198	Vertical
2	6916.5	49.65	-44.01	35.98	-53.64	-40.00	13.64	122	183	Vertical
3	9222.3600	35.33	-40.24	38.36	-61.82	-40.00	21.82	259	95	Vertical
4	11527.9500	29.11	-37.19	38.97	-64.38	-40.00	24.38	191	121	Vertical
5	13833.5400	30.85	-36.08	39.99	-60.50	-40.00	20.50	148	166	Vertical
6	16139.1300	33.59	-34.58	37.69	-58.56	-40.00	18.56	172	302	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	44.96	-45.66	31.74	-64.22	-40.00	24.22	214	272	Horizontal
2	6916.0200	41.90	-44.01	35.98	-61.39	-40.00	21.39	136	108	Horizontal
3	9221.3600	33.96	-40.24	38.36	-63.19	-40.00	23.19	256	272	Horizontal
4	11526.7000	28.49	-37.20	38.97	-65.00	-40.00	25.00	144	101	Horizontal
5	13832.0400	30.76	-36.09	39.99	-60.60	-40.00	20.60	189	115	Horizontal
6	16137.3800	33.27	-34.58	37.69	-58.87	-40.00	18.87	192	163	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	50.67	-45.66	31.74	-58.51	-40.00	18.51	214	108	Vertical
2	6915.75	50.77	-44.01	35.98	-52.52	-40.00	12.52	155	182	Vertical
3	9221.25	36.58	-40.24	38.36	-60.57	-40.00	20.57	198	92	Vertical
4	11526.7000	29.09	-37.20	38.97	-64.40	-40.00	24.40	175	138	Vertical
5	13832.0400	30.37	-36.09	39.99	-60.99	-40.00	20.99	142	0	Vertical
6	16137.3800	33.27	-34.58	37.69	-58.87	-40.00	18.87	133	273	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	4615.5	45.77	-45.66	31.76	-63.39	-40.00	23.39	248	270	Horizontal
2	6923.25	43.31	-43.97	35.99	-59.93	-40.00	19.93	174	270	Horizontal
3	9231.3600	31.99	-40.24	38.36	-65.15	-40.00	25.15	159	151	Horizontal
4	11539.2000	28.67	-37.15	38.96	-64.78	-40.00	24.78	126	8	Horizontal
5	13847.0400	30.64	-35.95	40.00	-60.57	-40.00	20.57	200	34	Horizontal
6	16154.8800	33.52	-34.60	37.67	-58.66	-40.00	18.66	135	285	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	52.06	-45.66	31.76	-57.10	-40.00	17.10	254	95	Vertical
2	6923.25	48.79	-43.97	35.99	-54.45	-40.00	14.45	125	0	Vertical
3	9231	36.58	-40.24	38.36	-60.56	-40.00	20.56	200	225	Vertical
4	11539.2000	28.55	-37.15	38.96	-64.90	-40.00	24.90	175	242	Vertical
5	13847.0400	30.57	-35.95	40.00	-60.64	-40.00	20.64	142	183	Vertical
6	16154.8800	33.55	-34.60	37.67	-58.63	-40.00	18.63	130	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	46.72	-45.66	31.77	-62.42	-40.00	22.42	248	272	Horizontal
2	6931.0200	42.93	-43.93	36.00	-60.26	-40.00	20.26	136	272	Horizontal
3	9241.3600	33.29	-40.24	38.37	-63.84	-40.00	23.84	256	213	Horizontal
4	11551.7000	28.43	-37.10	38.94	-64.98	-40.00	24.98	215	48	Horizontal
5	13862.0400	30.44	-35.81	40.02	-60.61	-40.00	20.61	188	357	Horizontal
6	16172.3800	33.36	-34.61	37.65	-58.86	-40.00	18.86	198	286	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	53.35	-45.66	31.77	-55.79	-40.00	15.79	271	91	Vertical
2	6930.75	49.87	-43.93	36.00	-53.32	-40.00	13.32	154	181	Vertical
3	9241.3600	34.91	-40.24	38.37	-62.22	-40.00	22.22	136	166	Vertical
4	11551.7000	28.11	-37.10	38.94	-65.30	-40.00	25.30	256	46	Vertical
5	13862.0400	30.46	-35.81	40.02	-60.59	-40.00	20.59	152	243	Vertical
6	16172.3800	34.08	-34.61	37.65	-58.14	-40.00	18.14	211	9	Vertical

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Test Band = LTE 30A_66A_ 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	4618.5	45.52	-45.66	31.77	-63.63	-40.00	23.63	142	268	Horizontal
2	6916.0200	40.39	-44.01	35.98	-62.90	-40.00	22.90	186	224	Horizontal
3	8510.4500	37.98	-41.59	37.56	-61.31	-40.00	21.31	239	343	Horizontal
4	9221.3600	36.74	-40.24	38.36	-60.41	-40.00	20.41	215	59	Horizontal
5	10212.5400	35.95	-39.45	38.81	-59.94	-40.00	19.94	172	255	Horizontal
6	11914.6300	33.95	-37.18	38.88	-59.61	-40.00	19.61	168	357	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	48.26	-45.66	31.77	-60.89	-40.00	20.89	229	286	Vertical
2	6928.5	53.71	-43.94	35.99	-49.50	-40.00	9.50	186	121	Vertical
3	8510.4500	38.57	-41.59	37.56	-60.72	-40.00	20.72	158	209	Vertical
4	9221.3600	36.90	-40.24	38.36	-60.25	-40.00	20.25	186	60	Vertical
5	10212.5400	36.22	-39.45	38.81	-59.67	-40.00	19.67	259	360	Vertical
6	11914.6300	34.13	-37.18	38.88	-59.43	-40.00	19.43	163	135	Vertical

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Test Band = LTE 30A_66A_ 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	44.12	-45.66	31.76	-65.04	-40.00	25.04	218	14	Horizontal
2	6923.5200	43.74	-43.97	35.99	-59.50	-40.00	19.50	195	60	Horizontal
3	8635.4500	38.86	-41.46	37.81	-60.05	-40.00	20.05	162	360	Horizontal
4	9231.3600	36.48	-40.24	38.36	-60.66	-40.00	20.66	142	105	Horizontal
5	10362.5400	36.27	-39.04	38.85	-59.18	-40.00	19.18	235	4	Horizontal
6	12089.6300	34.27	-37.37	39.04	-59.32	-40.00	19.32	288	4	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	48.69	-45.66	31.77	-60.46	-40.00	20.46	274	286	Vertical
2	6928.5	53.86	-43.94	35.99	-49.35	-40.00	9.35	148	122	Vertical
3	8635.4500	38.90	-41.46	37.81	-60.01	-40.00	20.01	155	344	Vertical
4	9231.3600	37.49	-40.24	38.36	-59.65	-40.00	19.65	216	105	Vertical
5	10362.5400	36.93	-39.04	38.85	-58.52	-40.00	18.52	239	359	Vertical
6	12089.6300	34.38	-37.37	39.04	-59.21	-40.00	19.21	284	151	Vertical

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Test Band = LTE 30A_66A_ 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	45.11	-45.66	31.77	-64.03	-40.00	24.03	248	29	Horizontal
2	6931.0200	41.95	-43.93	36.00	-61.24	-40.00	21.24	177	90	Horizontal
3	8760.4500	39.10	-41.42	38.02	-59.57	-40.00	19.57	143	178	Horizontal
4	9241.3200	36.99	-40.24	38.37	-60.14	-40.00	20.14	235	75	Horizontal
5	10512.5400	34.73	-38.76	38.97	-60.32	-40.00	20.32	198	359	Horizontal
6	12262.6300	34.30	-37.44	39.11	-59.29	-40.00	19.29	246	178	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	47.98	-45.66	31.77	-61.16	-40.00	21.16	224	284	Vertical
2	6931.0200	52.03	-43.93	36.00	-51.16	-40.00	11.16	185	120	Vertical
3	8760.4500	38.42	-41.42	38.02	-60.25	-40.00	20.25	199	360	Vertical
4	9241.3200	37.52	-40.24	38.37	-59.61	-40.00	19.61	263	134	Vertical
5	10512.5400	34.96	-38.76	38.97	-60.09	-40.00	20.09	250	225	Vertical
6	12262.6300	34.96	-37.44	39.11	-58.63	-40.00	18.63	142	16	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) - Preamplifier (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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	8.10	0.003506	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	-19.60	-0.008485	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	-10.50	-0.004545	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-11.10	-0.004805	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	-8.70	-0.003766	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-0.50	-0.000216	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	4.50	0.001948	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-7.30	-0.003160	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	0.50	0.000266	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	1.50	0.000797	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	0.40	0.000212	PASS

---End of Attachment---

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