Appendix B.11

LTE Band 18(824-830)

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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
18(824-830)	5MHz	QPSK	23965	1RB#0	23.26	15.71	38.45	PASS
18(824-830)	5MHz	QPSK	23965	1RB#12	23.22	15.67	38.45	PASS
18(824-830)	5MHz	QPSK	23965	1RB#24	23.16	15.61	38.45	PASS
18(824-830)	5MHz	QPSK	23965	25RB#0	22.24	14.69	38.45	PASS
18(824-830)	5MHz	QPSK	23970	1RB#0	23.37	15.82	38.45	PASS
18(824-830)	5MHz	QPSK	23970	1RB#12	23.13	15.58	38.45	PASS
18(824-830)	5MHz	QPSK	23970	1RB#24	23.1	15.55	38.45	PASS
18(824-830)	5MHz	QPSK	23970	25RB#0	22.21	14.66	38.45	PASS
18(824-830)	5MHz	QPSK	23975	1RB#0	23.33	15.78	38.45	PASS
18(824-830)	5MHz	QPSK	23975	1RB#12	23.07	15.52	38.45	PASS
18(824-830)	5MHz	QPSK	23975	1RB#24	23.09	15.54	38.45	PASS
18(824-830)	5MHz	QPSK	23975	25RB#0	22.19	14.64	38.45	PASS
18(824-830)	5MHz	16QAM	23965	1RB#0	22.82	15.27	38.45	PASS
18(824-830)	5MHz	16QAM	23965	1RB#12	22.35	14.8	38.45	PASS
18(824-830)	5MHz	16QAM	23965	1RB#24	22.47	14.92	38.45	PASS
18(824-830)	5MHz	16QAM	23965	25RB#0	21.25	13.7	38.45	PASS
18(824-830)	5MHz	16QAM	23970	1RB#0	22.55	15	38.45	PASS
18(824-830)	5MHz	16QAM	23970	1RB#12	22.49	14.94	38.45	PASS
18(824-830)	5MHz	16QAM	23970	1RB#24	22.5	14.95	38.45	PASS
18(824-830)	5MHz	16QAM	23970	25RB#0	21.24	13.69	38.45	PASS
18(824-830)	5MHz	16QAM	23975	1RB#0	22.56	15.01	38.45	PASS
18(824-830)	5MHz	16QAM	23975	1RB#12	22.52	14.97	38.45	PASS
18(824-830)	5MHz	16QAM	23975	1RB#24	22.5	14.95	38.45	PASS
18(824-830)	5MHz	16QAM	23975	25RB#0	21.2	13.65	38.45	PASS
18(824-830)	5MHz	64QAM	23965	1RB#0	22.35	14.8	38.45	PASS
18(824-830)	5MHz	64QAM	23965	1RB#12	21.81	14.26	38.45	PASS
18(824-830)	5MHz	64QAM	23965	1RB#24	21.79	14.24	38.45	PASS
18(824-830)	5MHz	64QAM	23965	25RB#0	20.63	13.08	38.45	PASS
18(824-830)	5MHz	64QAM	23970	1RB#0	22.04	14.49	38.45	PASS
18(824-830)	5MHz	64QAM	23970	1RB#12	21.73	14.18	38.45	PASS

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18(824-830)	5MHz	64QAM	23970	1RB#24	22.05	14.5	38.45	PASS
18(824-830)	5MHz	64QAM	23970	25RB#0	20.7	13.15	38.45	PASS
18(824-830)	5MHz	64QAM	23975	1RB#0	21.83	14.28	38.45	PASS
18(824-830)	5MHz	64QAM	23975	1RB#12	21.87	14.32	38.45	PASS
18(824-830)	5MHz	64QAM	23975	1RB#24	21.91	14.36	38.45	PASS
18(824-830)	5MHz	64QAM	23975	25RB#0	20.7	13.15	38.45	PASS

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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band18	5MHz	QPSK	23965	25RB#0	5.80	13	PASS
Band18	5MHz	QPSK	23970	25RB#0	5.80	13	PASS
Band18	5MHz	QPSK	23975	25RB#0	5.77	13	PASS
Band18	5MHz	16QAM	23965	25RB#0	6.49	13	PASS
Band18	5MHz	16QAM	23970	25RB#0	6.49	13	PASS
Band18	5MHz	16QAM	23975	25RB#0	6.46	13	PASS
Band18	5MHz	64QAM	23965	25RB#0	6.87	13	PASS
Band18	5MHz	64QAM	23970	25RB#0	6.84	13	PASS
Band18	5MHz	64QAM	23975	25RB#0	6.84	13	PASS

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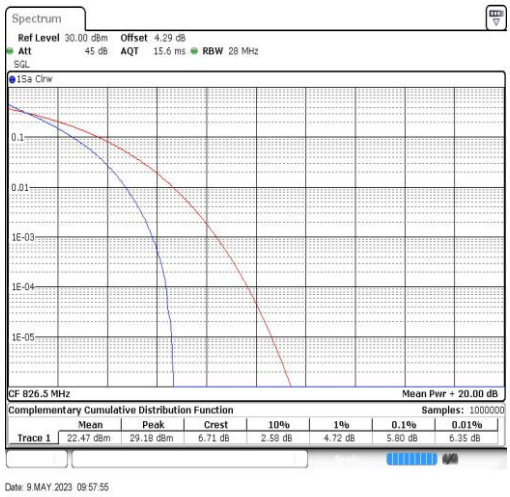
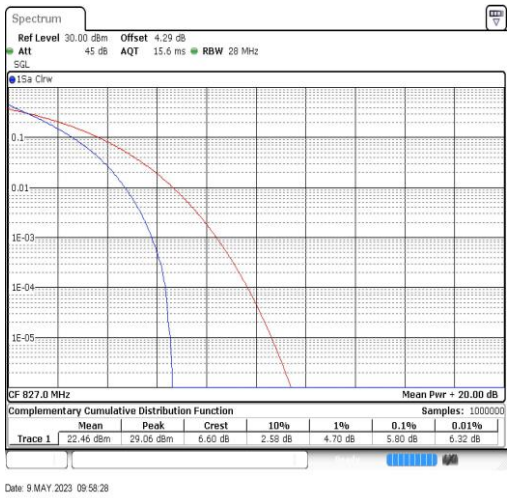
Test Graphs



Band18-5MHz-QPSK-23965-25RB#0



Band18-5MHz-QPSK-23970-25RB#0

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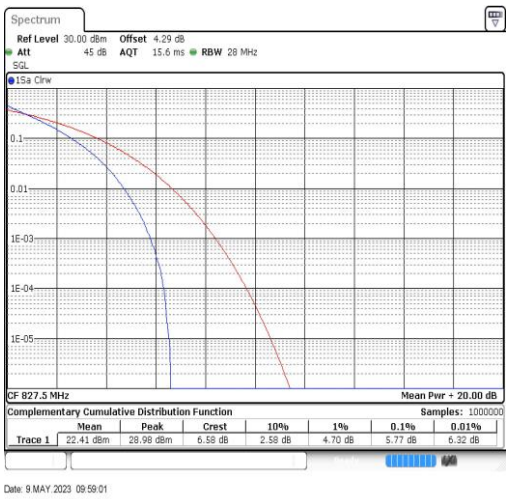
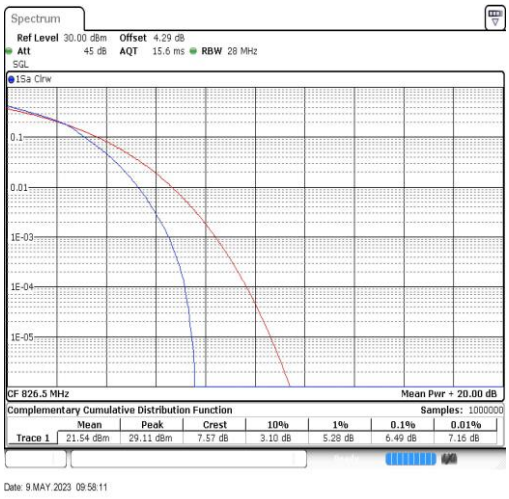


Band18-5MHz-QPSK-23975-25RB#0



Band18-5MHz-16QAM-23965-25RB#0

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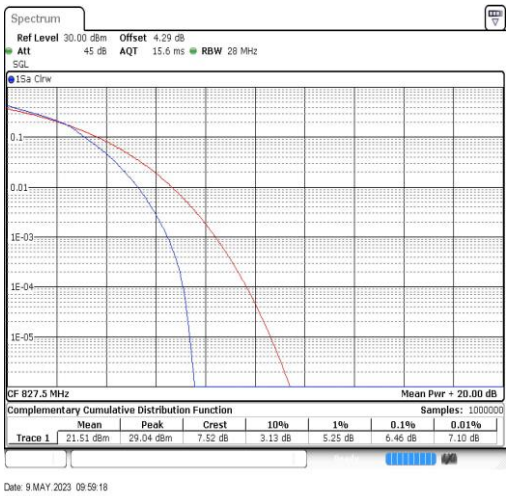
Band18-5MHz-16QAM-23970-25RB#0



Band18-5MHz-16QAM-23975-25RB#0

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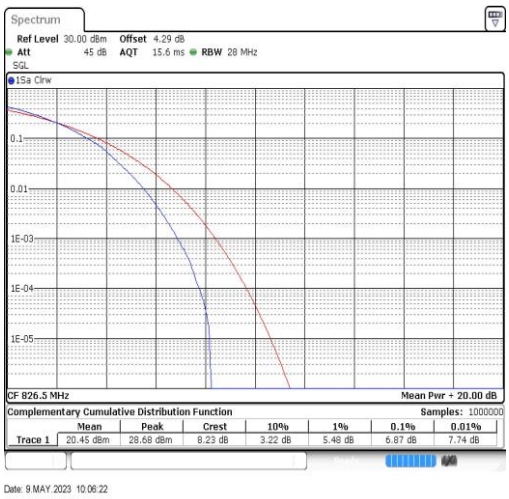
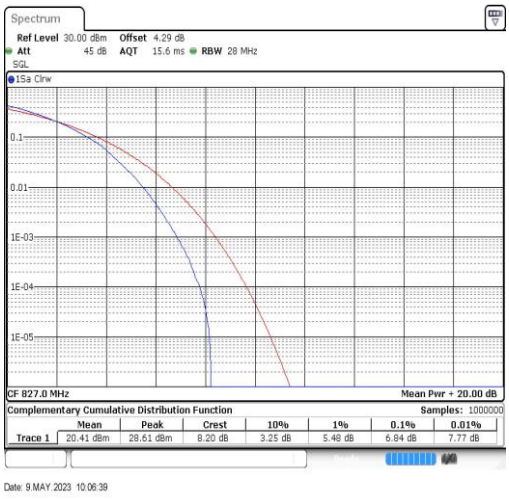


Band18-5MHz-64QAM-23965-25RB#0



Band18-5MHz-64QAM-23970-25RB#0

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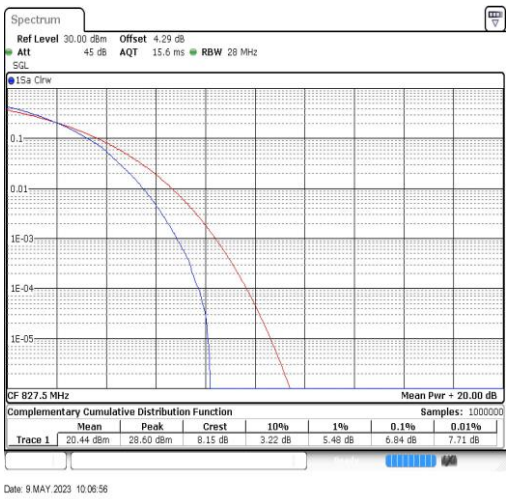

Band18-5MHz-64QAM-23975-25RB#0

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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band18	5MHz	QPSK	23970	25RB#0	PASS	PASS
Band18	5MHz	16QAM	23970	25RB#0	PASS	PASS
Band18	5MHz	64QAM	23970	25RB#0	PASS	PASS

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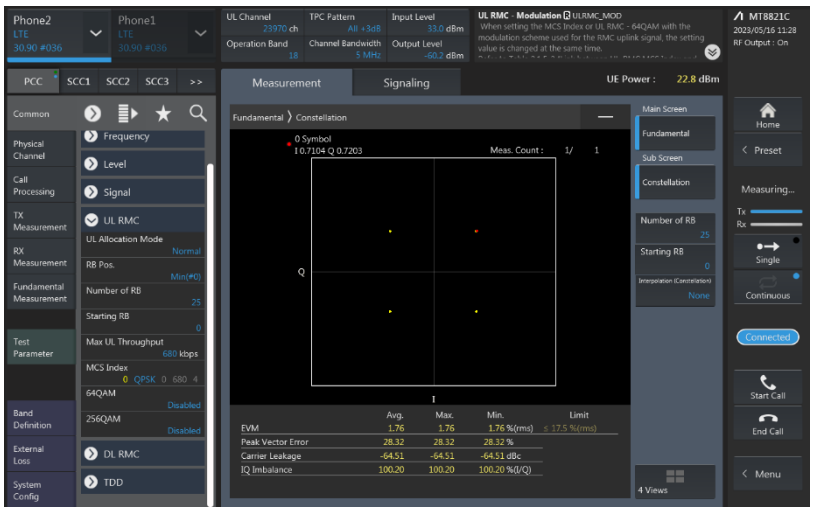
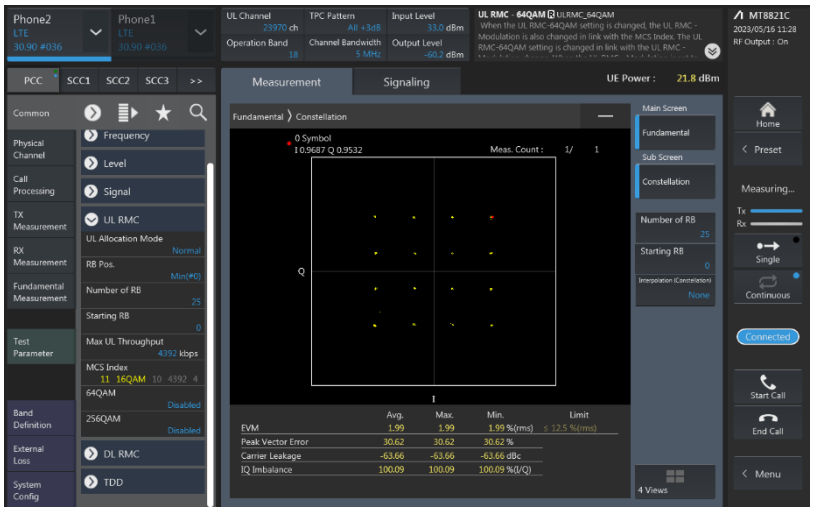
Test Graphs



Band26-15MHz-QPSK-23970-25RB#0



Band26-15MHz-16QAM-23970-25RB#0

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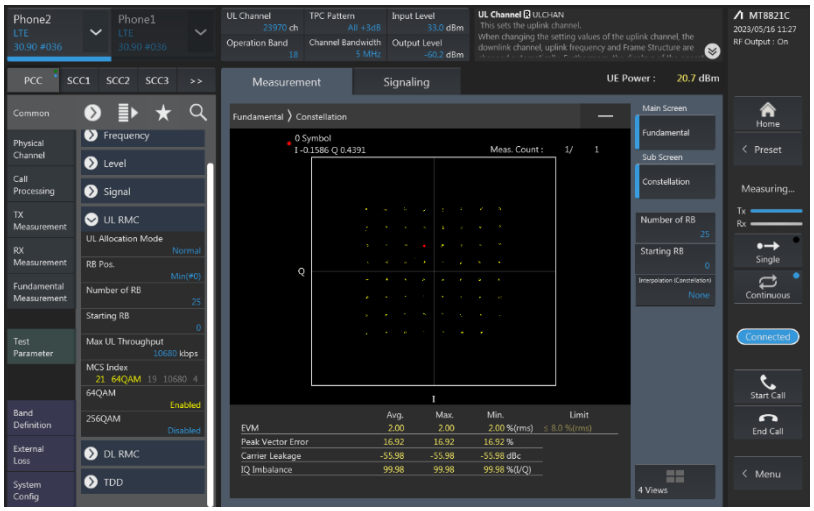

Band26-15MHz-64QAM-23970-25RB#0

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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band18	5MHz	QPSK	23965	25RB#0	4.476	4.92	PASS
Band18	5MHz	QPSK	23970	25RB#0	4.476	4.90	PASS
Band18	5MHz	QPSK	23975	25RB#0	4.476	4.91	PASS
Band18	5MHz	16QAM	23965	25RB#0	4.466	4.95	PASS
Band18	5MHz	16QAM	23970	25RB#0	4.466	4.94	PASS
Band18	5MHz	16QAM	23975	25RB#0	4.466	4.95	PASS
Band18	5MHz	64QAM	23965	25RB#0	4.476	4.93	PASS
Band18	5MHz	64QAM	23970	25RB#0	4.486	4.94	PASS
Band18	5MHz	64QAM	23975	25RB#0	4.486	4.95	PASS

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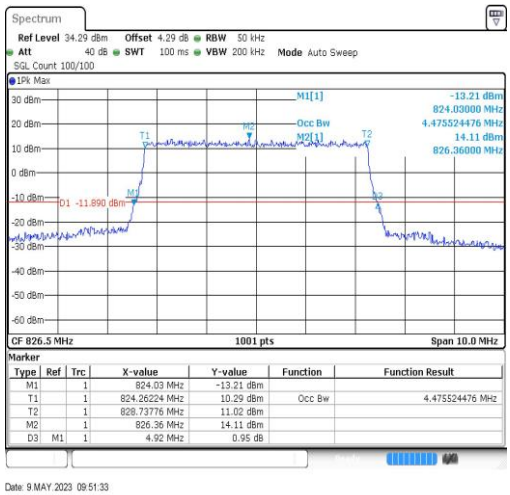
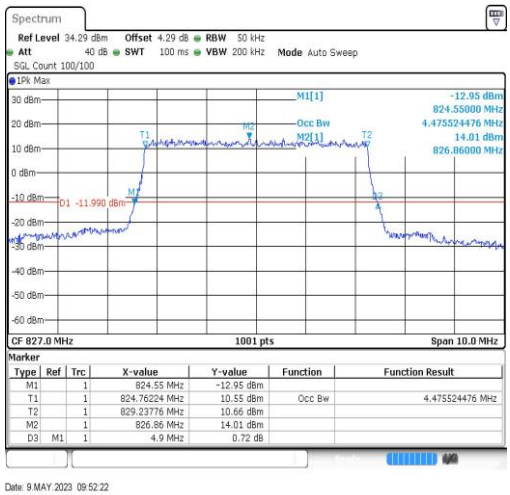
Test Graphs



Band18-5MHz-QPSK-23965-25RB#0-4.476



Band18-5MHz-QPSK-23970-25RB#0-4.476

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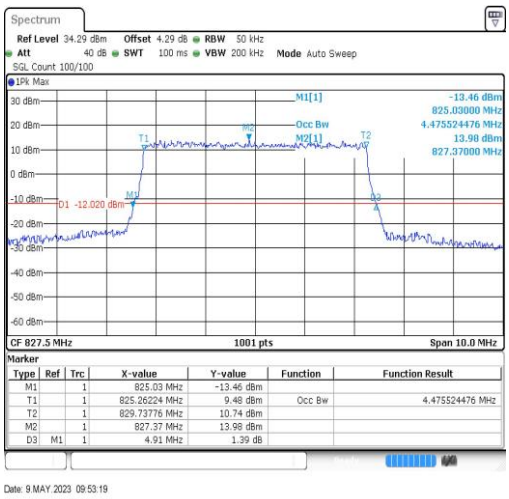
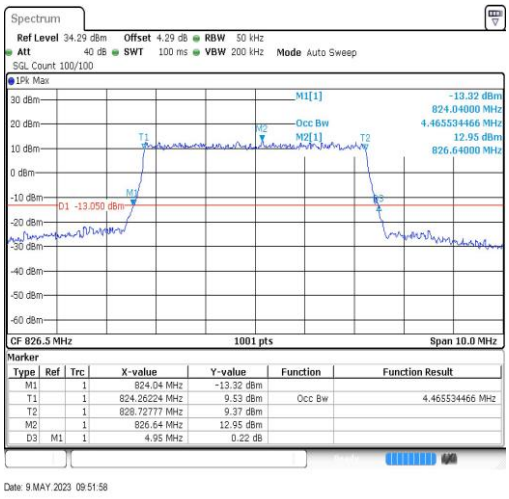


Band18-5MHz-QPSK-23975-25RB#0-4.476



Band18-5MHz-16QAM-23965-25RB#0-4.466

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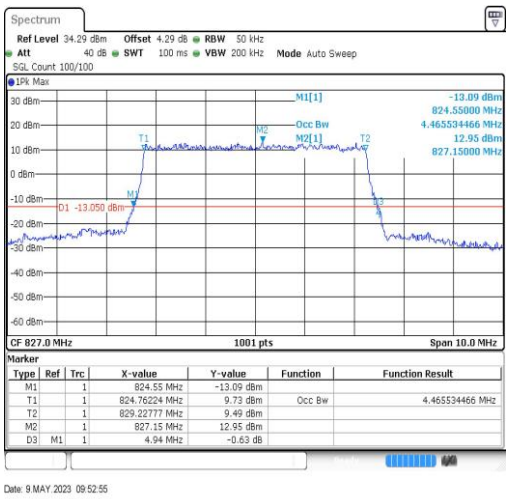
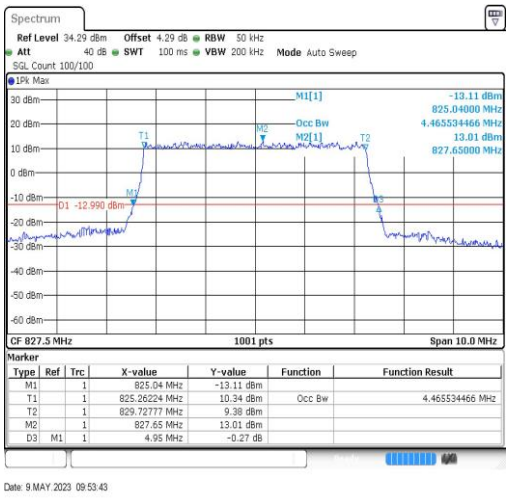


Band18-5MHz-16QAM-23970-25RB#0-4.466



Band18-5MHz-16QAM-23975-25RB#0-4.466

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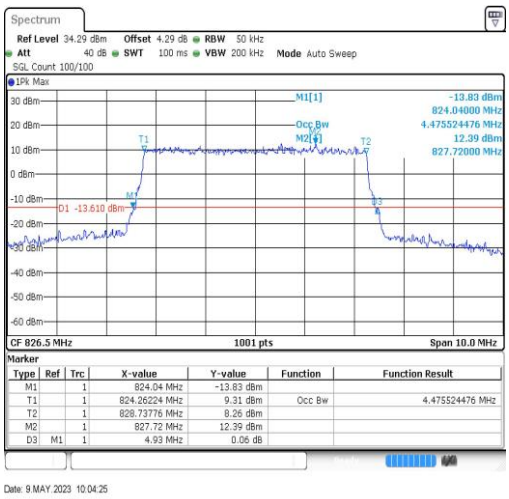
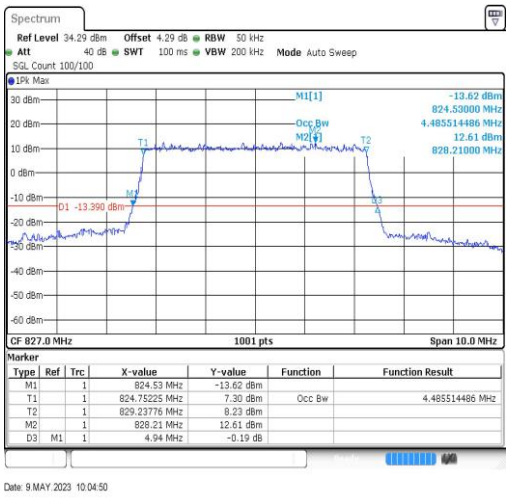


Band18-5MHz-64QAM-23965-25RB#0-4.476



Band18-5MHz-64QAM-23970-25RB#0-4.486

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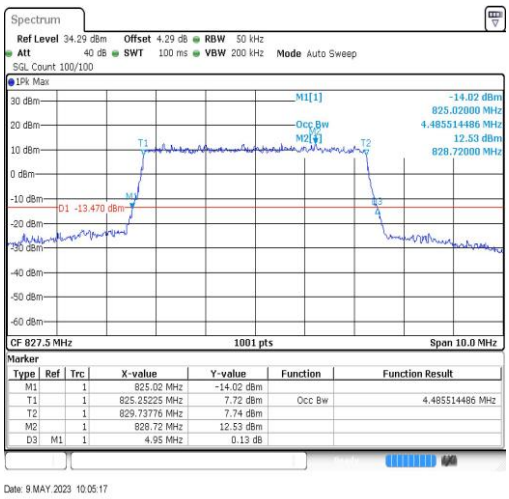

Band18-5MHz-64QAM-23975-25RB#0-4.486

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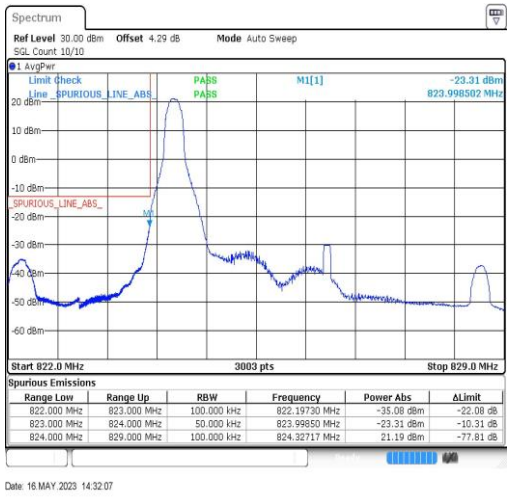
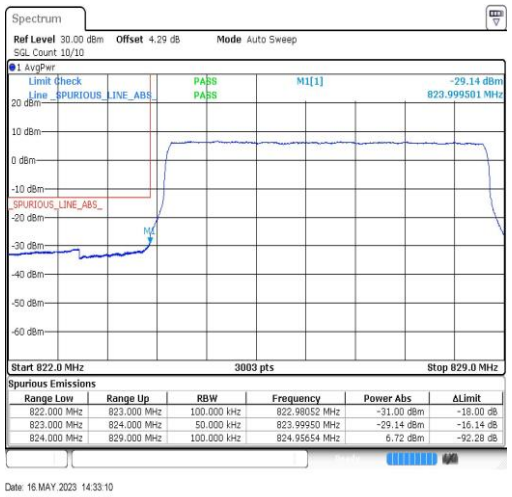
Band Edge

Test Graphs



18(824-830)_Band18_5MHz_QPSK_23965_1RB#0



18(824-830)_Band18_5MHz_QPSK_23965_25RB#0

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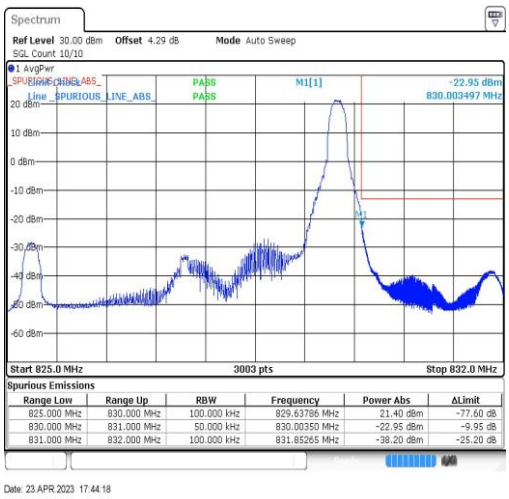
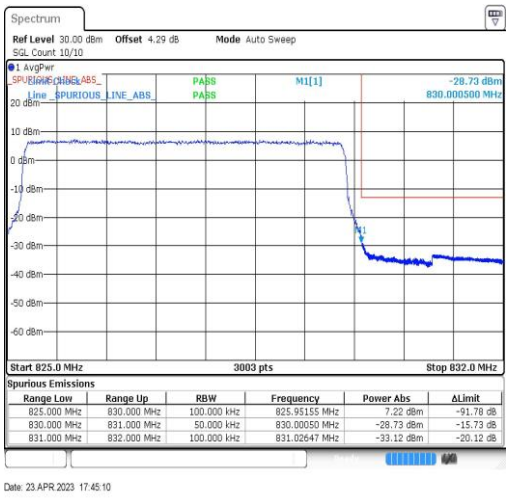


18(824-830)_Band18_5MHz_QPSK_23975_1RB#24



18(824-830)_Band18_5MHz_QPSK_23975_25RB#0

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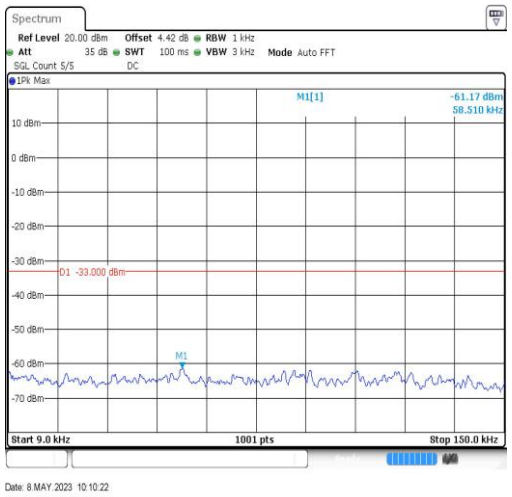
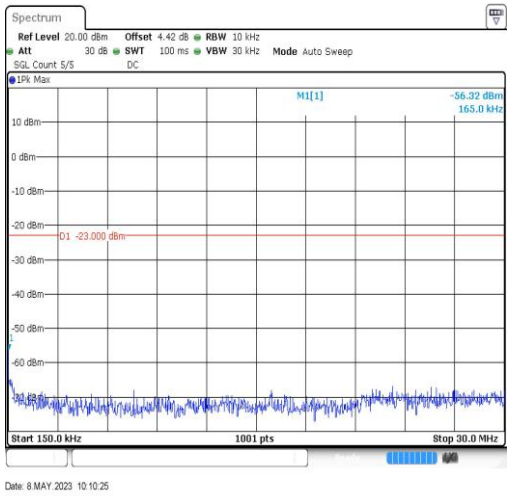
Conducted Spurious Emission

Test Graphs



Band18-5MHz-QPSK-23875-1RB#0-Range1:0.009~0.15MHz



Band18-5MHz-QPSK-23875-1RB#0-Range2:0.15~30MHz

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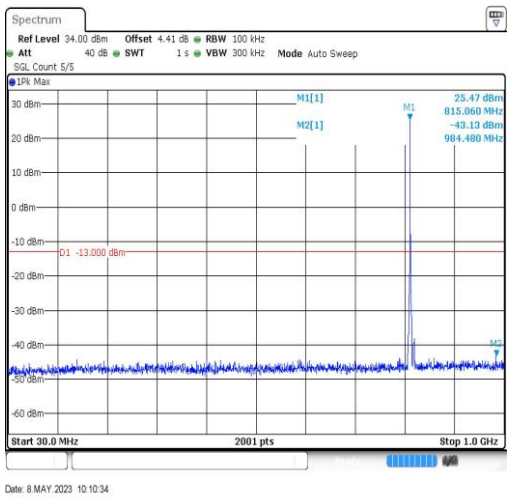
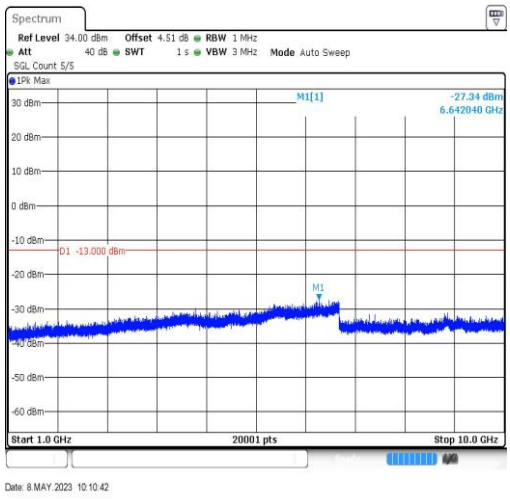


Band18-5MHz-QPSK-23875-1RB#0-Range3:30~1000MHz



Band18-5MHz-QPSK-23875-1RB#0-Range4:1000~10000MHz

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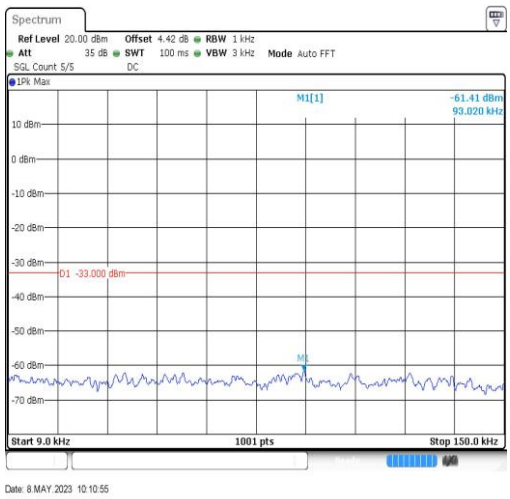

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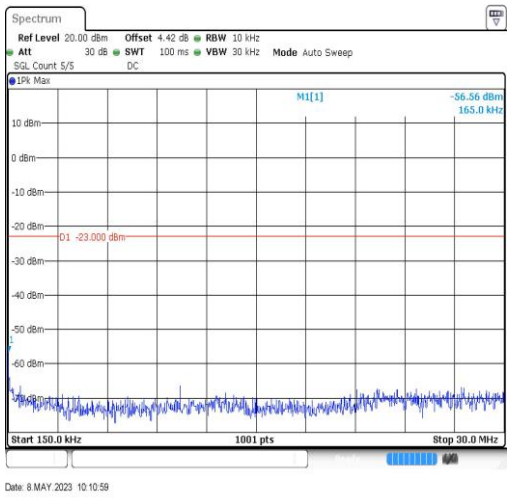

Band18-5MHz-QPSK-23895-1RB#0-Range2:0.15~30MHz

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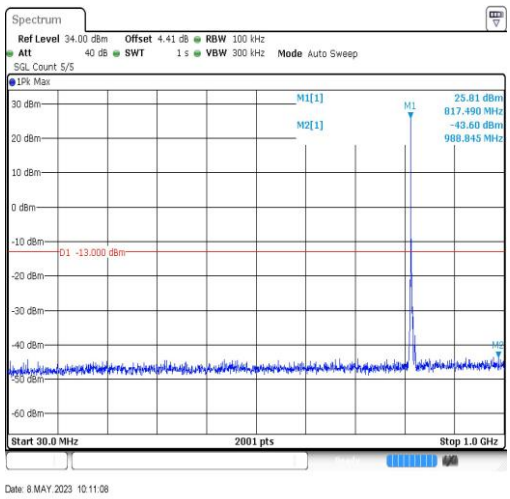
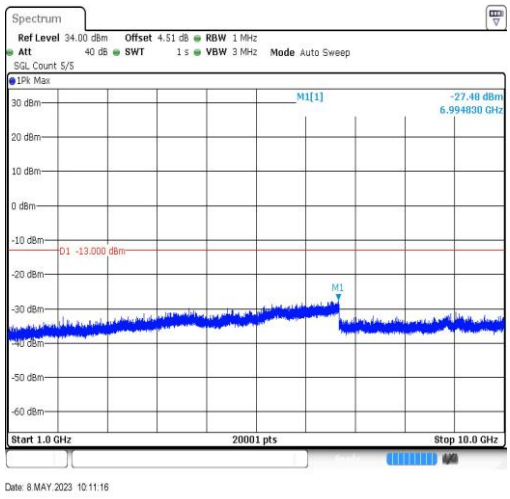


Band18-5MHz-QPSK-23895-1RB#0-Range3:30~1000MHz



Band18-5MHz-QPSK-23895-1RB#0-Range4:1000~10000MHz

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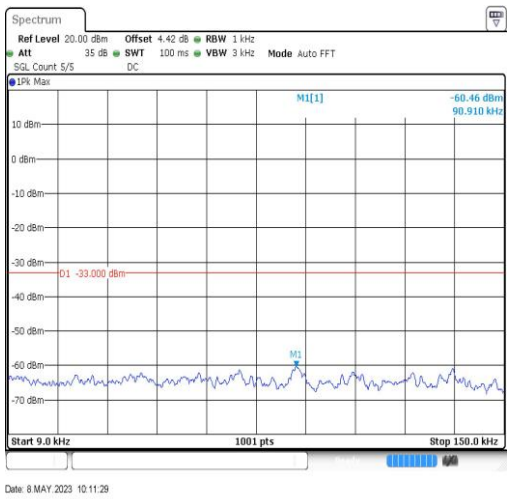

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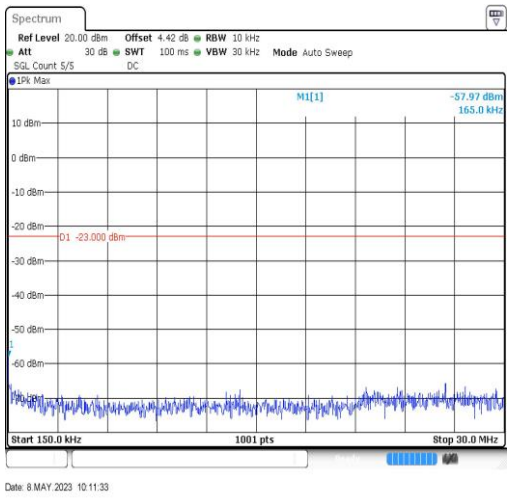

Band18-5MHz-QPSK-23915-1RB#0-Range2:0.15~30MHz

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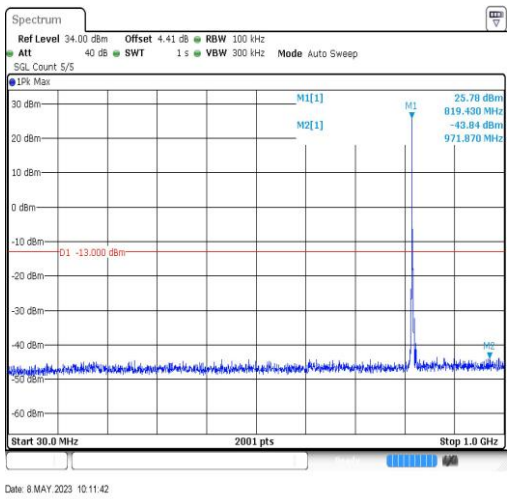
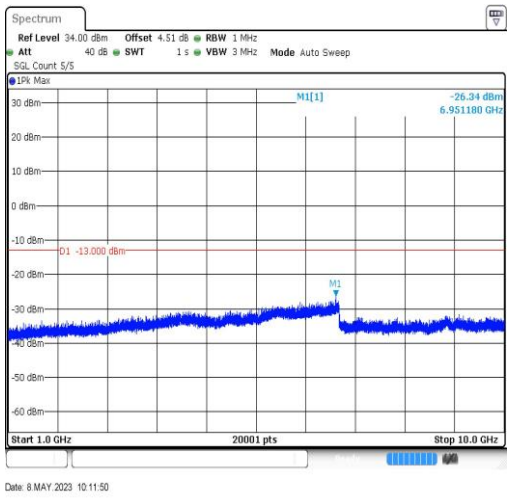


Band18-5MHz-QPSK-23915-1RB#0-Range3:30~1000MHz



Band18-5MHz-QPSK-23915-1RB#0-Range4:1000~10000MHz

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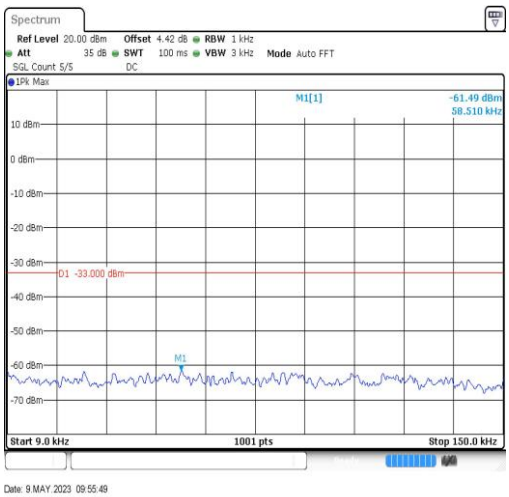
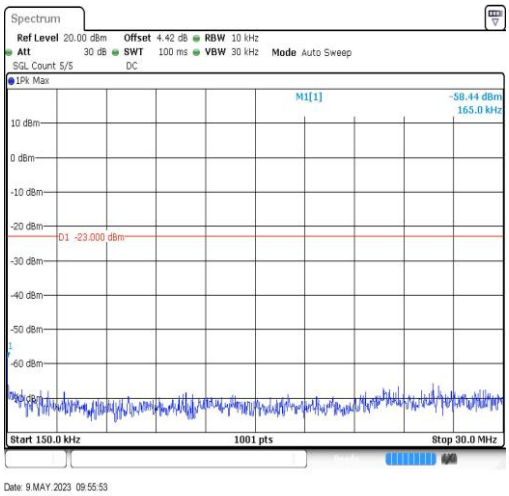


Band18-5MHz-QPSK-23965-1RB#0-Range1:0.009~0.15MHz



Band18-5MHz-QPSK-23965-1RB#0-Range2:0.15~30MHz

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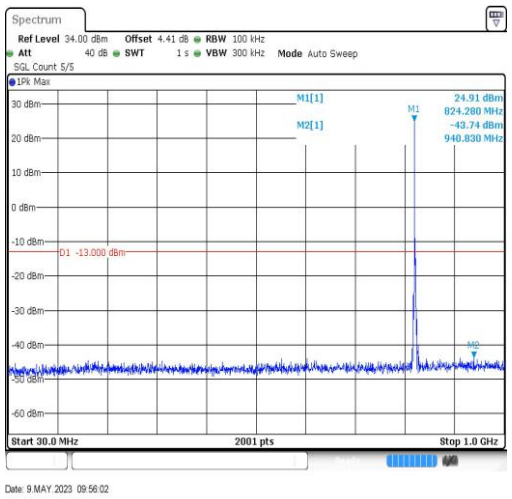
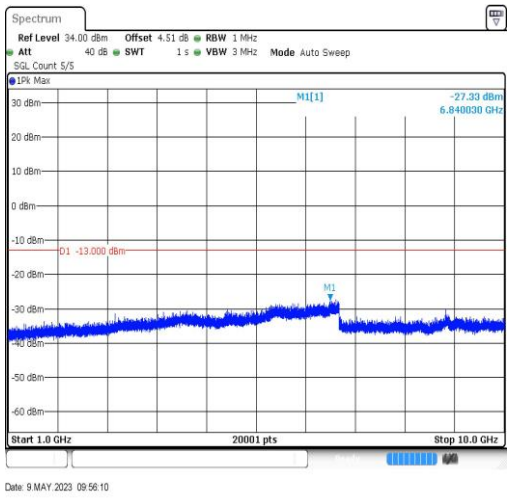


Band18-5MHz-QPSK-23965-1RB#0-Range3:30~1000MHz



Band18-5MHz-QPSK-23965-1RB#0-Range4:1000~10000MHz

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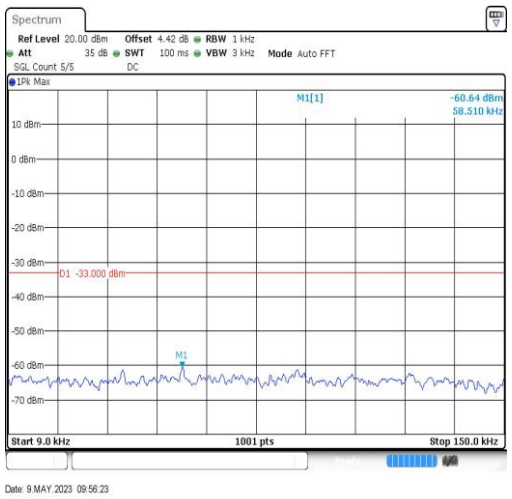
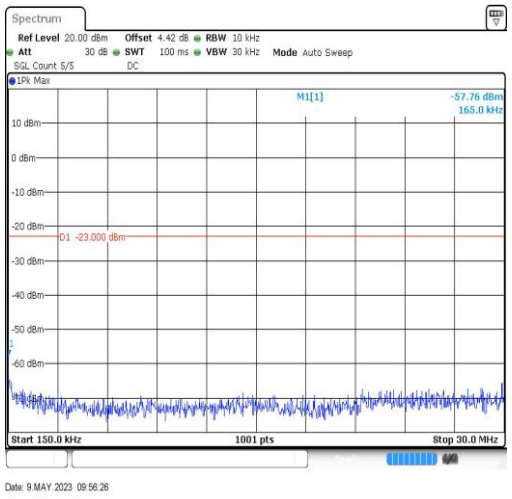


Band18-5MHz-QPSK-23970-1RB#0-Range1:0.009~0.15MHz



Band18-5MHz-QPSK-23970-1RB#0-Range2:0.15~30MHz

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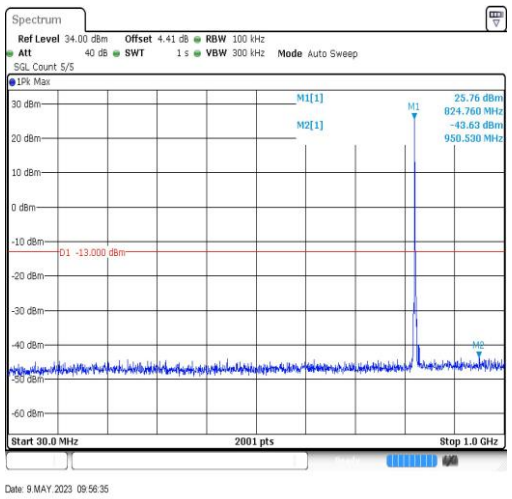
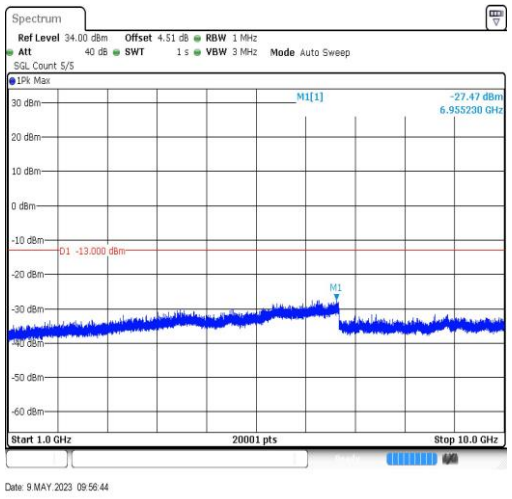


Band18-5MHz-QPSK-23970-1RB#0-Range3:30~1000MHz



Band18-5MHz-QPSK-23970-1RB#0-Range4:1000~10000MHz

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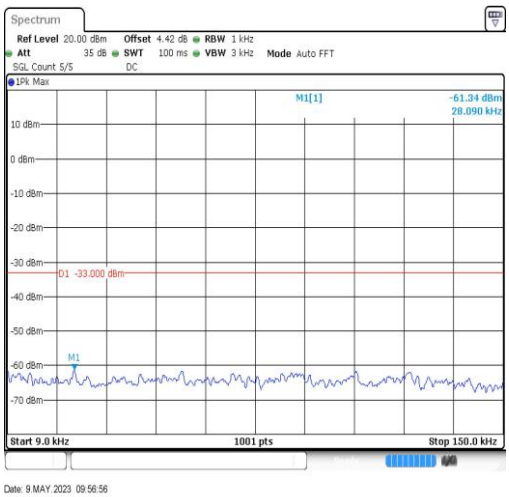
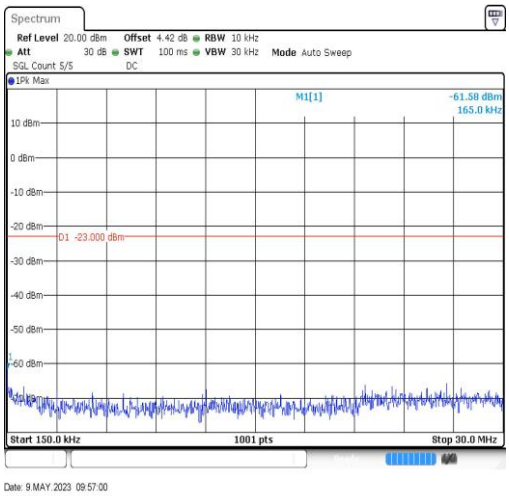


Band18-5MHz-QPSK-23975-1RB#0-Range1:0.009~0.15MHz



Band18-5MHz-QPSK-23975-1RB#0-Range2:0.15~30MHz

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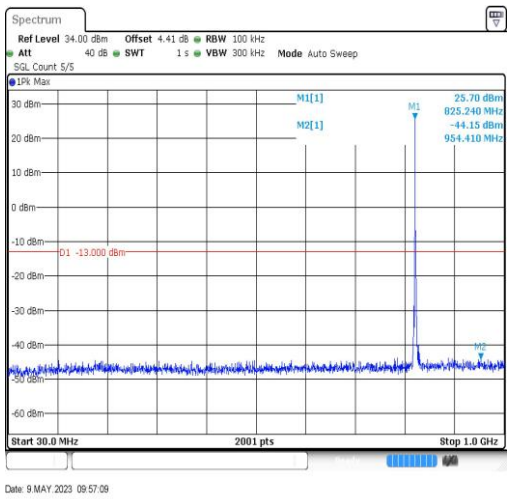
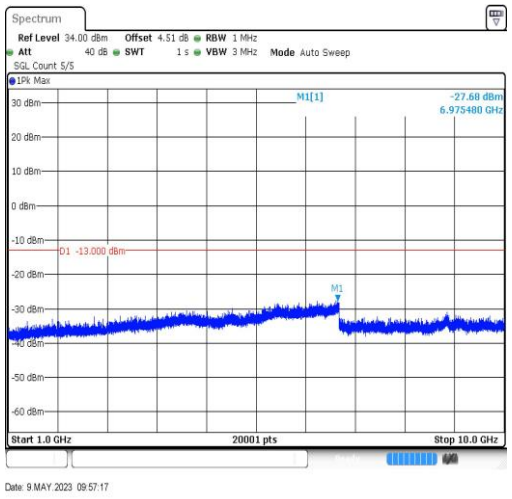


Band18-5MHz-QPSK-23975-1RB#0-Range3:30~1000MHz



Band18-5MHz-QPSK-23975-1RB#0-Range4:1000~10000MHz

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Field Strength of Spurious Radiation

Test Band = LTE_18(824-830) _5M_ANT13_TM1
Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1648.8311	32.37	-19.03	25.90	-56.02	-13.00	43.02	215	78	Horizontal
2	2558.6948	25.38	-17.67	28.32	-59.23	-13.00	46.23	208	221	Horizontal
3	3613.2307	53.26	-49.51	30.25	-61.26	-13.00	48.26	138	59	Horizontal
4	5701.7851	50.55	-44.76	33.51	-55.96	-13.00	42.96	244	69	Horizontal
5	7838.6419	49.23	-43.23	37.10	-52.16	-13.00	39.16	308	324	Horizontal
6	9724.1862	47.98	-41.14	38.75	-49.67	-13.00	36.67	163	344	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1648.8311	30.41	-19.03	25.90	-57.98	-13.00	44.98	184	70	Vertical
2	2544.193	25.13	-17.68	28.27	-59.54	-13.00	46.54	234	240	Vertical
3	3626.1813	52.77	-49.38	30.30	-61.57	-13.00	48.57	273	153	Vertical
4	5696.5348	50.26	-44.76	33.49	-56.27	-13.00	43.27	352	172	Vertical
5	7478.1239	49.41	-43.33	36.64	-52.54	-13.00	39.54	231	226	Vertical
6	9259.013	47.92	-41.32	39.05	-49.61	-13.00	36.61	240	236	Vertical

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Test Band = LTE_18(824-830) _5M_ANT13_TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.5812	32.92	-19.02	25.90	-55.46	-13.00	42.46	194	206	Horizontal
2	2788.7236	24.83	-16.97	28.62	-58.78	-13.00	45.78	380	292	Horizontal
3	3613.2307	53.41	-49.51	30.25	-61.11	-13.00	48.11	139	60	Horizontal
4	5019.951	51.29	-47.16	33.22	-57.91	-13.00	44.91	398	315	Horizontal
5	6961.4981	50.03	-44.40	36.42	-53.21	-13.00	40.21	215	94	Horizontal
6	9018.9009	48.59	-41.73	38.76	-49.64	-13.00	36.64	202	75	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1649.5812	30.61	-19.02	25.90	-57.77	-13.00	44.77	331	65	Vertical
2	2671.2089	25.24	-17.58	28.38	-59.22	-13.00	46.22	171	292	Vertical
3	3635.2818	52.69	-49.29	30.34	-61.52	-13.00	48.52	254	246	Vertical
4	5800.84	50.31	-45.51	34.10	-56.36	-13.00	43.36	252	172	Vertical
5	7114.1057	49.50	-43.87	36.96	-52.67	-13.00	39.67	174	152	Vertical
6	9001.7501	48.10	-41.66	38.80	-50.02	-13.00	37.02	349	172	Vertical

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Test Band = LTE_18(824-830) _5M_ANT13_TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.5813	33.88	-19.02	25.90	-54.50	-13.00	41.50	142	206	Horizontal
2	2198.6498	24.05	-17.85	27.69	-61.37	-13.00	48.37	160	222	Horizontal
3	3621.9811	53.24	-49.42	30.29	-61.15	-13.00	48.15	122	311	Horizontal
4	4996.4998	51.02	-46.93	33.11	-58.06	-13.00	45.06	326	126	Horizontal
5	6951.6976	50.35	-44.43	36.40	-52.94	-13.00	39.94	267	299	Horizontal
6	8996.8498	48.52	-41.68	38.78	-49.64	-13.00	36.64	301	145	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1650.8314	29.80	-19.01	25.90	-58.57	-13.00	45.57	239	106	Vertical
2	2434.9294	24.68	-17.64	27.87	-60.35	-13.00	47.35	103	358	Vertical
3	3630.7315	52.74	-49.33	30.32	-61.53	-13.00	48.53	149	300	Vertical
4	4878.1939	51.56	-47.59	32.97	-58.32	-13.00	45.32	322	57	Vertical
5	6508.9254	50.30	-44.24	35.12	-54.08	-13.00	41.08	312	324	Vertical
6	9022.0511	48.46	-41.75	38.76	-49.79	-13.00	36.79	254	5	Vertical

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Test Band = LTE_18(824-830)_5M_ANT31 _TM1
Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1378.5473	22.93	-19.35	25.84	-65.84	-13.00	52.84	206	320	Horizontal
2	2413.6767	24.70	-17.54	27.83	-60.27	-13.00	47.27	117	197	Horizontal
3	4529.9265	51.52	-48.21	31.98	-59.97	-13.00	46.97	293	324	Horizontal
4	5698.6349	49.28	-44.73	33.49	-57.22	-13.00	44.22	124	158	Horizontal
5	7465.5233	48.91	-43.43	36.67	-53.11	-13.00	40.11	152	286	Horizontal
6	9292.2646	47.27	-41.85	38.85	-50.99	-13.00	37.99	345	54	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1359.2949	23.30	-19.38	25.88	-65.46	-13.00	52.46	330	6	Vertical
2	2556.6946	25.04	-17.66	28.31	-59.57	-13.00	46.57	238	136	Vertical
3	4374.8687	51.44	-48.60	32.05	-60.37	-13.00	47.37	214	346	Vertical
4	5697.9349	49.63	-44.74	33.49	-56.88	-13.00	43.88	248	85	Vertical
5	7495.2748	48.37	-43.20	36.61	-53.48	-13.00	40.48	119	65	Vertical
6	9031.8516	47.10	-41.79	38.74	-51.21	-13.00	38.21	126	281	Vertical

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Test Band = LTE_18(824-830)_5M_ANT31 _TM1
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1518.0648	23.48	-18.96	25.71	-65.03	-13.00	52.03	248	175	Horizontal
2	2134.3918	24.39	-18.63	27.43	-62.07	-13.00	49.07	280	316	Horizontal
3	3648.5824	52.10	-49.15	30.39	-61.92	-13.00	48.92	144	134	Horizontal
4	5137.5569	50.02	-47.07	33.58	-58.73	-13.00	45.73	249	70	Horizontal
5	7487.5744	48.59	-43.26	36.62	-53.31	-13.00	40.31	354	267	Horizontal
6	9551.6276	46.62	-41.59	39.10	-51.13	-13.00	38.13	236	321	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1171.2714	23.01	-19.21	25.77	-65.69	-13.00	52.69	265	312	Vertical
2	1720.8401	23.58	-18.90	25.67	-64.91	-13.00	51.91	100	239	Vertical
3	3527.8264	52.78	-49.41	29.97	-61.92	-13.00	48.92	236	56	Vertical
4	5012.9506	49.77	-47.07	33.18	-59.38	-13.00	46.38	101	2	Vertical
5	7467.2734	48.48	-43.41	36.67	-53.52	-13.00	40.52	254	2	Vertical
6	9019.251	47.72	-41.73	38.76	-50.51	-13.00	37.51	269	306	Vertical

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Test Band = LTE_18(824-830)_5M_ANT31 _TM1
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1698.8374	23.71	-18.72	25.80	-64.47	-13.00	51.47	363	30	Horizontal
2	2564.4456	24.90	-17.70	28.33	-59.73	-13.00	46.73	284	168	Horizontal
3	4433.3217	51.09	-48.27	32.00	-60.44	-13.00	47.44	100	65	Horizontal
4	6390.6195	49.15	-45.17	34.56	-56.72	-13.00	43.72	266	20	Horizontal
5	7466.2233	48.43	-43.42	36.67	-53.58	-13.00	40.58	216	277	Horizontal
6	9507.1754	46.45	-41.52	39.19	-51.14	-13.00	38.14	226	218	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2632.9541	25.46	-17.64	28.33	-59.11	-13.00	46.11	220	250	Vertical
2	3630.7315	52.56	-49.33	30.32	-61.71	-13.00	48.71	348	158	Vertical
3	4402.1701	51.25	-48.45	32.19	-60.27	-13.00	47.27	129	99	Vertical
4	5709.4855	49.87	-44.96	33.58	-56.77	-13.00	43.77	385	2	Vertical
5	7495.9748	48.46	-43.20	36.61	-53.39	-13.00	40.39	213	252	Vertical
6	9564.2282	46.64	-41.46	39.13	-50.95	-13.00	37.95	265	340	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

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band18	5MHz	QPSK	23970	25RB#0	VN	NT	3.40	0.004111	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	VL	NT	1.70	0.002056	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	VH	NT	1.20	0.001451	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band18	5MHz	QPSK	23970	25RB#0	NV	-30	0.40	0.000484	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	-20	3.20	0.003869	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	-10	-0.50	-0.000605	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	0	3.20	0.003869	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	10	-0.80	-0.000967	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	20	3.60	0.004353	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	30	2.00	0.002418	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	40	0.40	0.000484	±2.5	PASS
Band18	5MHz	QPSK	23970	25RB#0	NV	50	0.60	0.000726	±2.5	PASS

---End of Attachment---

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