Appendix B.23

NR Band n12

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Effective (Isotropic) Radiated Power Output Data for SA

Test Result Ant1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	24.43	22.78	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	24.4	22.75	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	24.14	22.49	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Left	24.32	22.67	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Right	24.27	22.62	34.77	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	23.66	22.01	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Left	23.76	22.11	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Right	23.71	22.06	34.77	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	22.73	21.08	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Left	22.47	20.82	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Right	22.39	20.74	34.77	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	22.23	20.58	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Left	19.73	18.08	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Right	19.59	17.94	34.77	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	20.15	18.5	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	24.34	22.69	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	24.37	22.72	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	24.1	22.45	34.77	PASS

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N12	15	5	DFT-QPSK	M	Inner_1RB_Left	24.24	22.59	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Right	24.27	22.62	34.77	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	23.68	22.03	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Left	23.68	22.03	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Right	23.66	22.01	34.77	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	22.76	21.11	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Left	22.39	20.74	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Right	22.36	20.71	34.77	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	22.2	20.55	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Left	19.62	17.97	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Right	19.59	17.94	34.77	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	20.08	18.43	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	24.34	22.69	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	24.33	22.68	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Outer_Full	24.17	22.52	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Left	24.23	22.58	34.77	PASS
N12	15	5	DFT-QPSK	H	Inner_1RB_Right	24.24	22.59	34.77	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	23.55	21.9	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Left	23.65	22	34.77	PASS
N12	15	5	DFT-16QAM	H	Inner_1RB_Right	23.61	21.96	34.77	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	22.65	21	34.77	PASS

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N12	15	5	DFT-64QAM	H	Inner_1RB_Left	22.31	20.66	34.77	PASS
N12	15	5	DFT-64QAM	H	Inner_1RB_Right	22.31	20.66	34.77	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	22.1	20.45	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Left	19.54	17.89	34.77	PASS
N12	15	5	DFT-256QAM	H	Inner_1RB_Right	19.51	17.86	34.77	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	20.08	18.43	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.52	22.87	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.42	22.77	34.77	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	24.19	22.54	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Left	24.41	22.76	34.77	PASS
N12	15	10	DFT-QPSK	L	Inner_1RB_Right	24.34	22.69	34.77	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	23.69	22.04	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Left	23.64	21.99	34.77	PASS
N12	15	10	DFT-16QAM	L	Inner_1RB_Right	23.62	21.97	34.77	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	22.73	21.08	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Left	22.39	20.74	34.77	PASS
N12	15	10	DFT-64QAM	L	Inner_1RB_Right	22.3	20.65	34.77	PASS
N12	15	10	DFT-64QAM	L	Outer_Full	22.27	20.62	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Left	19.67	18.02	34.77	PASS
N12	15	10	DFT-256QAM	L	Inner_1RB_Right	19.52	17.87	34.77	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	20.19	18.54	34.77	PASS

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N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.48	22.83	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.48	22.83	34.77	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	24.18	22.53	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Left	24.44	22.79	34.77	PASS
N12	15	10	DFT-QPSK	M	Inner_1RB_Right	24.37	22.72	34.77	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	23.68	22.03	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Left	23.59	21.94	34.77	PASS
N12	15	10	DFT-16QAM	M	Inner_1RB_Right	23.67	22.02	34.77	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	22.73	21.08	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Left	22.32	20.67	34.77	PASS
N12	15	10	DFT-64QAM	M	Inner_1RB_Right	22.29	20.64	34.77	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	22.25	20.6	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Left	19.62	17.97	34.77	PASS
N12	15	10	DFT-256QAM	M	Inner_1RB_Right	19.51	17.86	34.77	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	20.04	18.39	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.37	22.72	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	24.28	22.63	34.77	PASS
N12	15	10	DFT-PI2BPSK	H	Outer_Full	24.04	22.39	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Left	24.23	22.58	34.77	PASS
N12	15	10	DFT-QPSK	H	Inner_1RB_Right	24.14	22.49	34.77	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	23.57	21.92	34.77	PASS

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N12	15	10	DFT-16QAM	H	Inner_1RB_Right	23.52	21.87	34.77	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	22.56	20.91	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Left	22.26	20.61	34.77	PASS
N12	15	10	DFT-64QAM	H	Inner_1RB_Right	22.27	20.62	34.77	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	22.13	20.48	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Left	19.56	17.91	34.77	PASS
N12	15	10	DFT-256QAM	H	Inner_1RB_Right	19.35	17.7	34.77	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	19.91	18.26	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Left	24.11	22.46	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Inner_1RB_Right	23.95	22.3	34.77	PASS
N12	15	15	DFT-PI2BPSK	L	Outer_Full	24.18	22.53	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Left	24.04	22.39	34.77	PASS
N12	15	15	DFT-QPSK	L	Inner_1RB_Right	24.05	22.4	34.77	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	24.23	22.58	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Left	24.13	22.48	34.77	PASS
N12	15	15	DFT-16QAM	L	Inner_1RB_Right	24.04	22.39	34.77	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	23.39	21.74	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Left	23.07	21.42	34.77	PASS
N12	15	15	DFT-64QAM	L	Inner_1RB_Right	22.77	21.12	34.77	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	22.85	21.2	34.77	PASS

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N12	15	15	DFT-256QAM	L	Inner_1RB_Left	20.38	18.73	34.77	PASS
N12	15	15	DFT-256QAM	L	Inner_1RB_Right	20.05	18.4	34.77	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	20.76	19.11	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Left	24.23	22.58	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Inner_1RB_Right	23.97	22.32	34.77	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	24.17	22.52	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Left	24.07	22.42	34.77	PASS
N12	15	15	DFT-QPSK	M	Inner_1RB_Right	24.02	22.37	34.77	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	24.27	22.62	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Left	24.15	22.5	34.77	PASS
N12	15	15	DFT-16QAM	M	Inner_1RB_Right	23.97	22.32	34.77	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	23.34	21.69	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Left	22.98	21.33	34.77	PASS
N12	15	15	DFT-64QAM	M	Inner_1RB_Right	22.79	21.14	34.77	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	22.81	21.16	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Left	20.36	18.71	34.77	PASS
N12	15	15	DFT-256QAM	M	Inner_1RB_Right	20.01	18.36	34.77	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	20.72	19.07	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Left	24.02	22.37	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Inner_1RB_Right	23.9	22.25	34.77	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	24.15	22.5	34.77	PASS

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N12	15	15	DFT-QPSK	H	Inner_1RB_Left	24.07	22.42	34.77	PASS
N12	15	15	DFT-QPSK	H	Inner_1RB_Right	24	22.35	34.77	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	24.2	22.55	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Left	24.2	22.55	34.77	PASS
N12	15	15	DFT-16QAM	H	Inner_1RB_Right	23.9	22.25	34.77	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	23.39	21.74	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Left	23.01	21.36	34.77	PASS
N12	15	15	DFT-64QAM	H	Inner_1RB_Right	22.68	21.03	34.77	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	22.83	21.18	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Left	20.34	18.69	34.77	PASS
N12	15	15	DFT-256QAM	H	Inner_1RB_Right	20.06	18.41	34.77	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	20.64	18.99	34.77	PASS

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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N12	15	15	DFT-256QAM	L	Outer_Full	6.74	13	PASS
N12	15	15	CP-256QAM	L	Outer_Full	8.63	13	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	6.74	13	PASS
N12	15	15	CP-256QAM	M	Outer_Full	8.76	13	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	6.71	13	PASS
N12	15	15	CP-256QAM	H	Outer_Full	8.79	13	PASS

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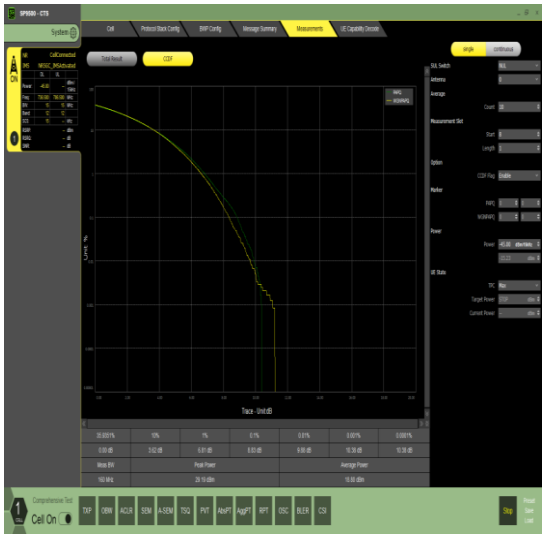
Test Graphs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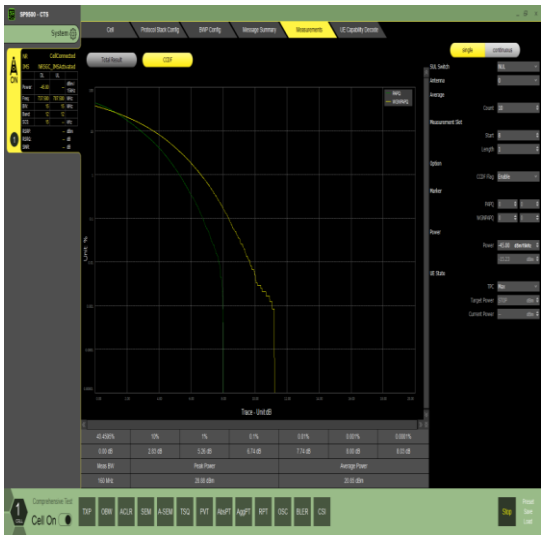	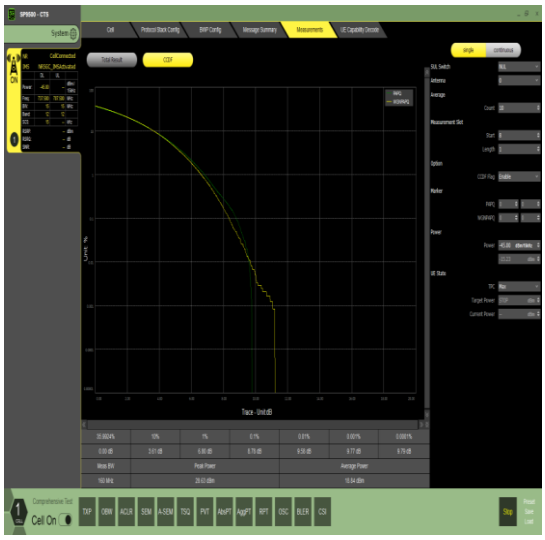
1-N12-15-15-M-14-DFT-256QAM-Outer_Full-75@0-20.85-20.85-19~27.5-PASS	1-N12-15-15-M-15-CP-256QAM-Outer_Full-79@0-18.80-18.80-19~27.5-PASS

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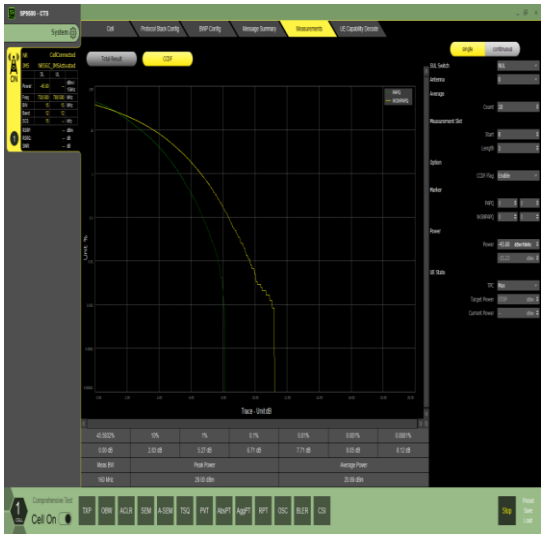	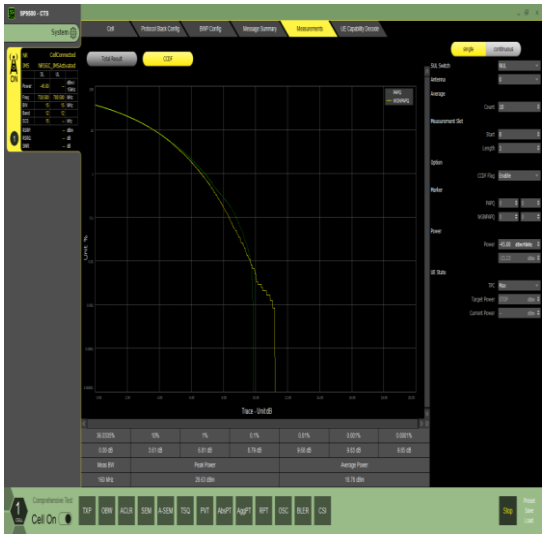
1-N12-15-15-H-14-DFT-256QAM-Outer_Full-75@0-20.85-20.85-19~27.5-PASS	1-N12-15-15-H-15-CP-256QAM-Outer_Full-79@0-18.80-18.80-19~27.5-PASS

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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N12	15	5	DFT-QPSK	M	Outer_Full	4.486	4.990	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	4.46	5.100	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.492	5.020	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	4.512	5.160	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	4.491	5.150	PASS
N12	15	5	CP-QPSK	M	Outer_Full	4.537	5.190	PASS
N12	15	5	CP-16QAM	M	Outer_Full	4.516	5.120	PASS
N12	15	5	CP-64QAM	M	Outer_Full	4.534	5.180	PASS
N12	15	5	CP-256QAM	M	Outer_Full	4.486	5.120	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.921	9.520	PASS
N12	15	10	DFT-PI2BPSK	M	Outer_Full	8.916	9.600	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.937	9.620	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	8.923	9.480	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	8.922	9.560	PASS
N12	15	10	CP-QPSK	M	Outer_Full	9.261	10.180	PASS
N12	15	10	CP-16QAM	M	Outer_Full	9.26	9.940	PASS
N12	15	10	CP-64QAM	M	Outer_Full	9.267	10.000	PASS
N12	15	10	CP-256QAM	M	Outer_Full	9.292	10.040	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.474	14.550	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	13.455	14.460	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.507	14.580	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	13.454	14.520	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	13.454	14.520	PASS
N12	15	15	CP-QPSK	M	Outer_Full	14.116	15.180	PASS
N12	15	15	CP-16QAM	M	Outer_Full	14.114	15.210	PASS
N12	15	15	CP-64QAM	M	Outer_Full	14.189	15.360	PASS
N12	15	15	CP-256QAM	M	Outer_Full	14.148	15.210	PASS

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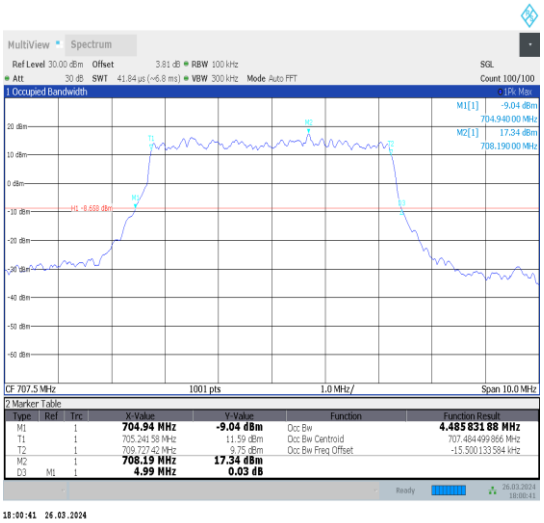

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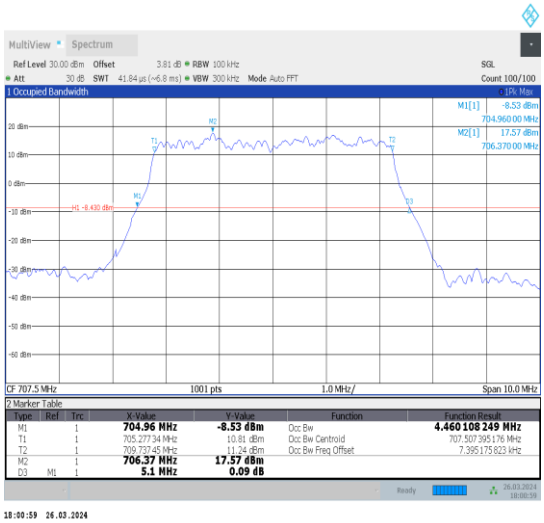

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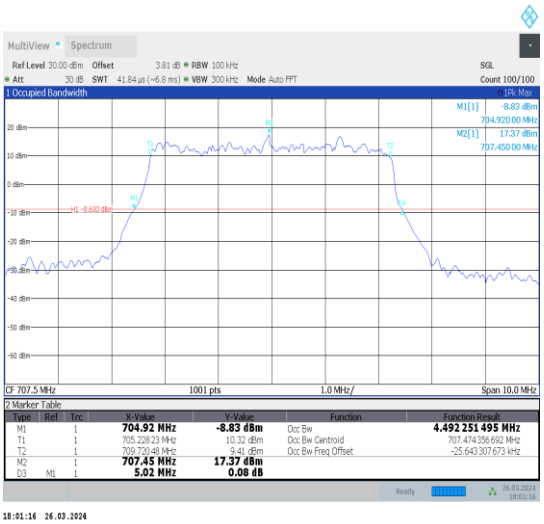

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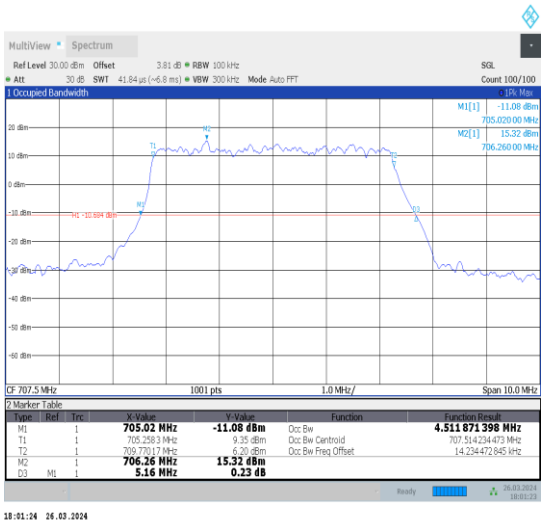

1-N12-15-5-M-4-DFT-64QAM-Outer_Full-25@0-Ant1-4.512-5.160-≤5-PASS

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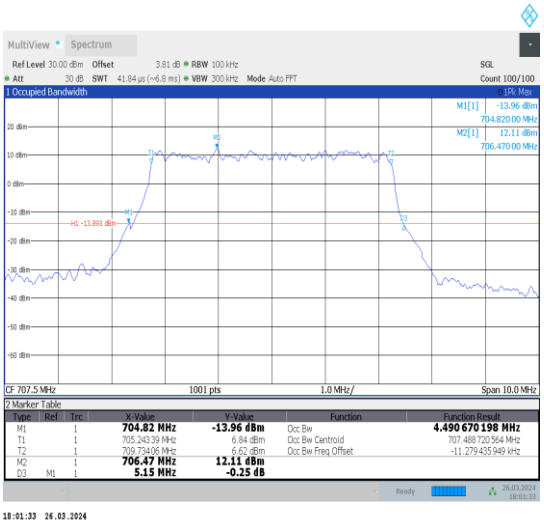

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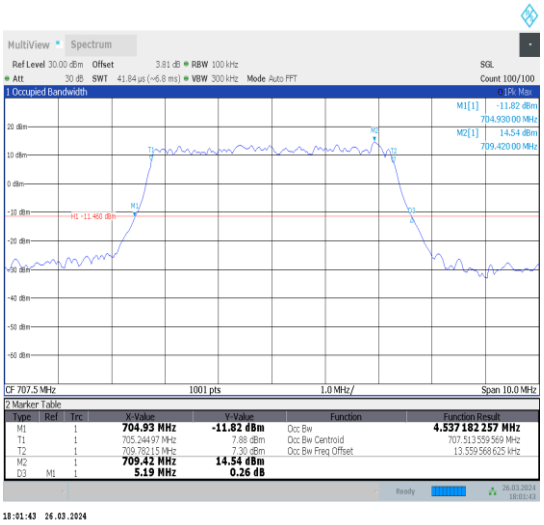

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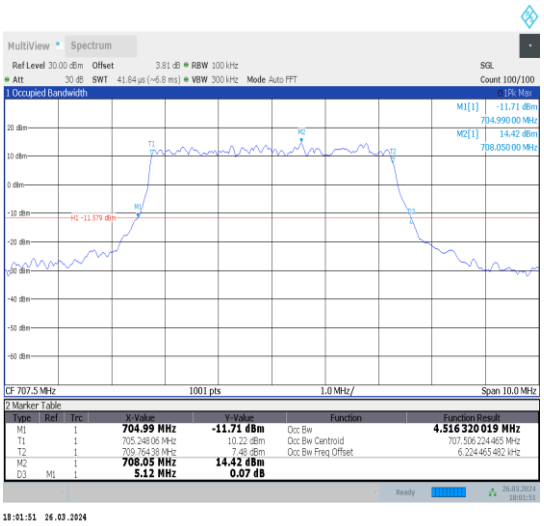

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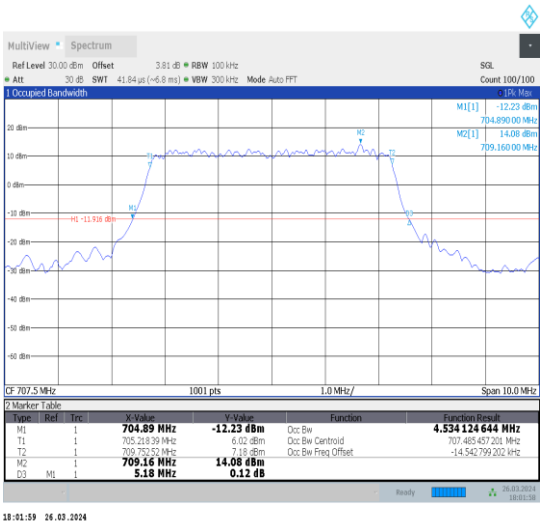

1-N12-15-5-M-8-CP-64QAM-Outer_Full-25@0-Ant1-4.534-5.180-≤5-PASS

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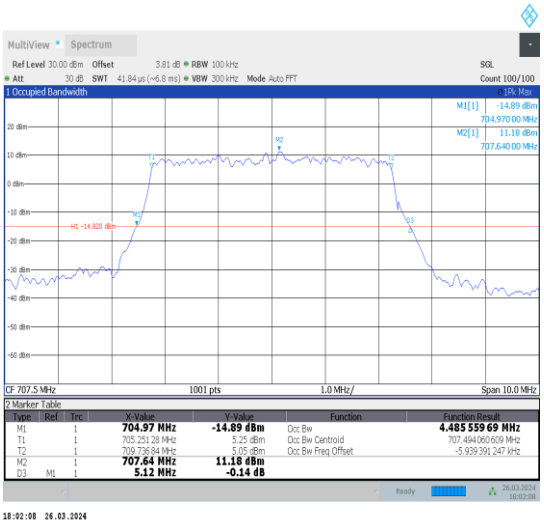

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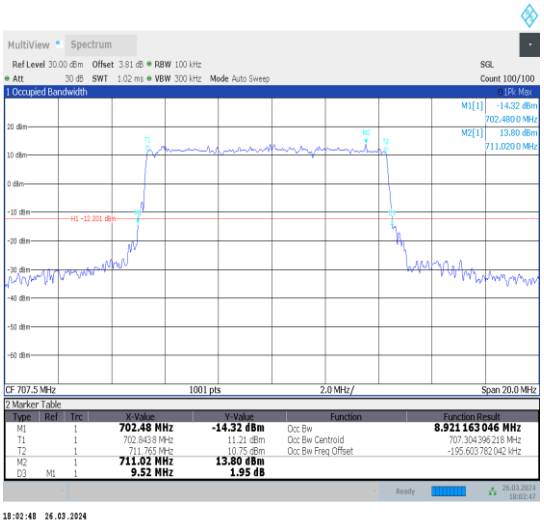

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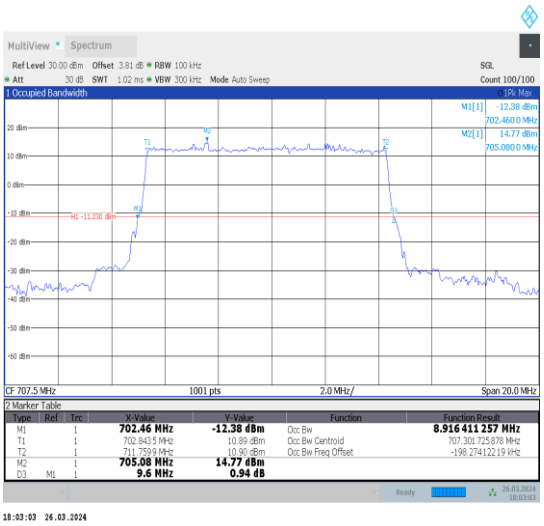

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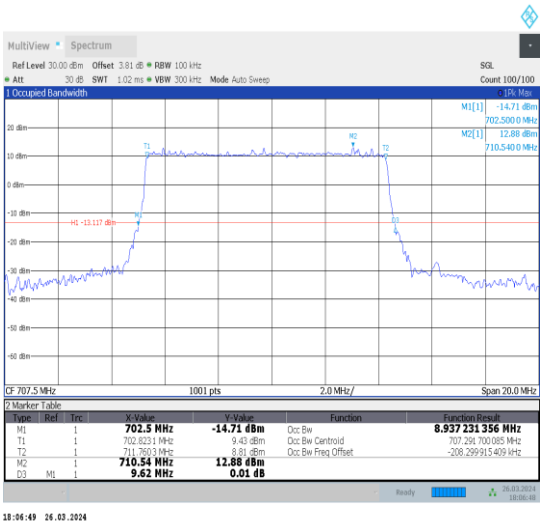

1-N12-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.937-9.620-≤10-PASS

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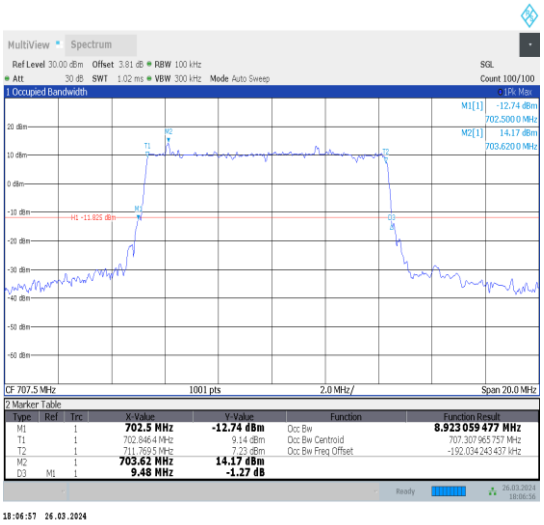

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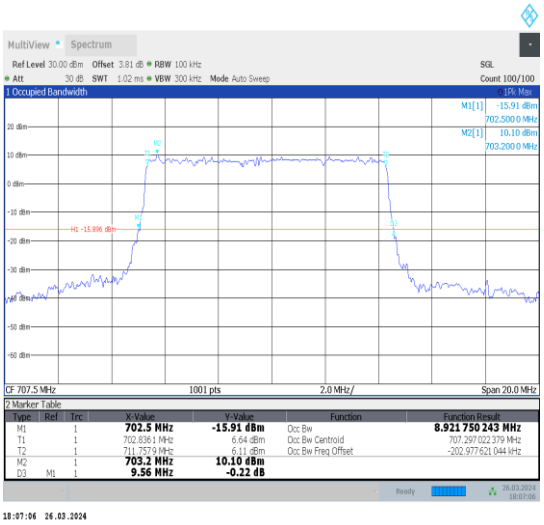

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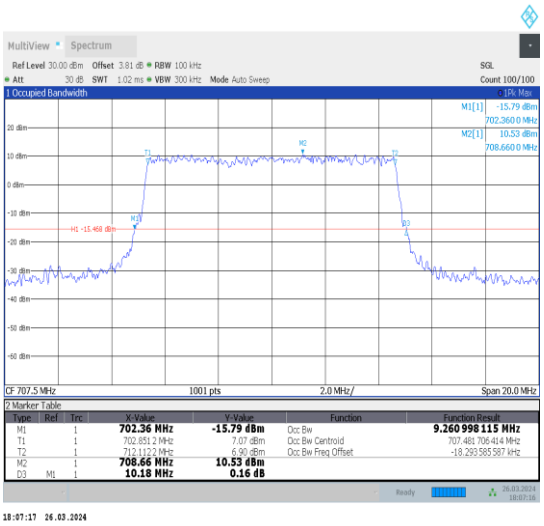

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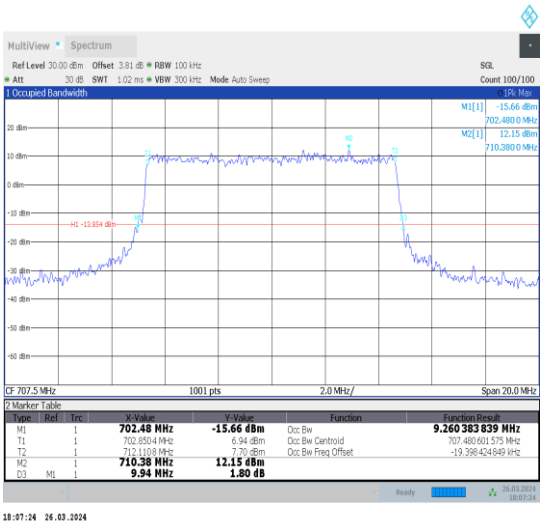

1-N12-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.26-9.940-≤10-PASS

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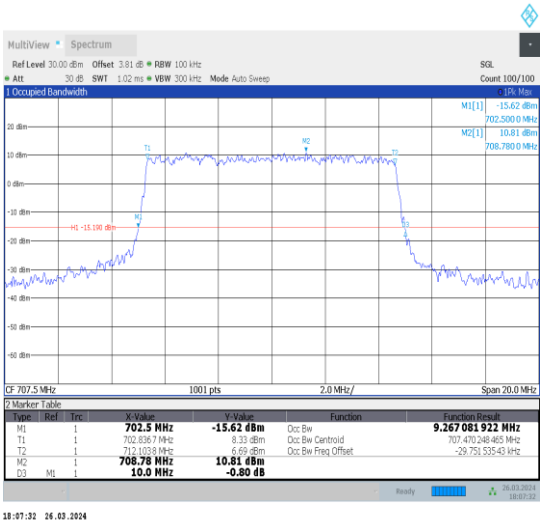

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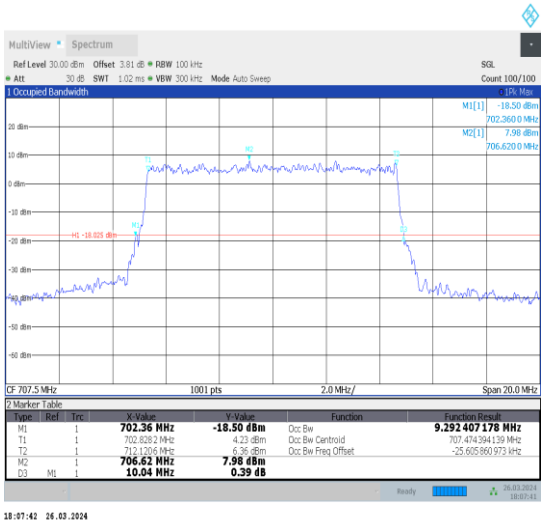

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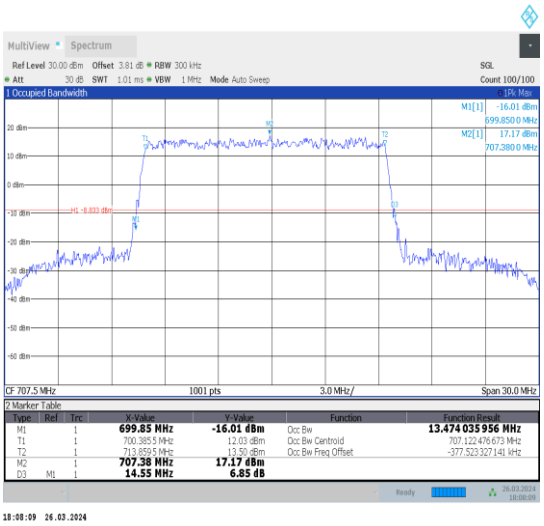

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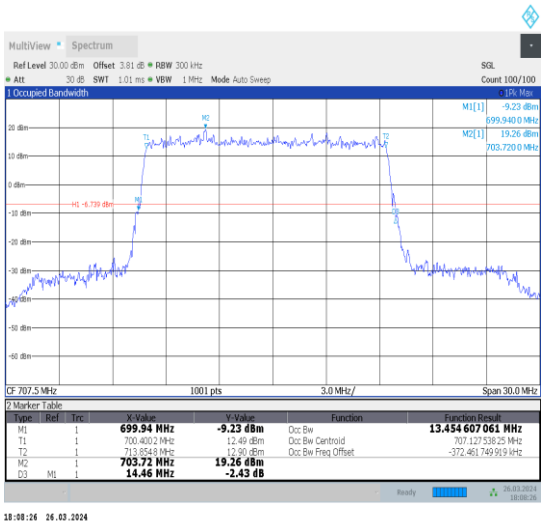

1-N12-15-15-M-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.455-14.460-≤15-PASS

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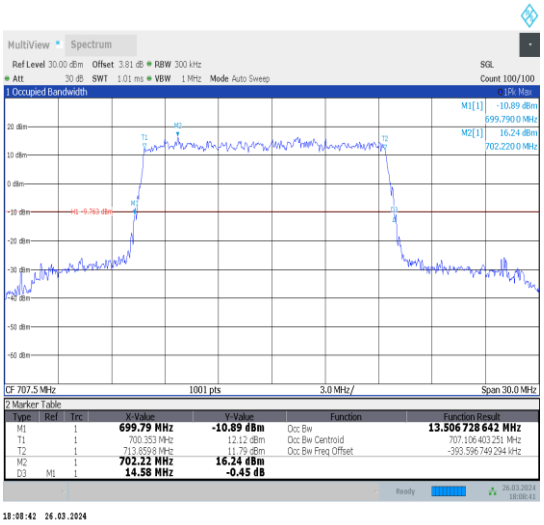

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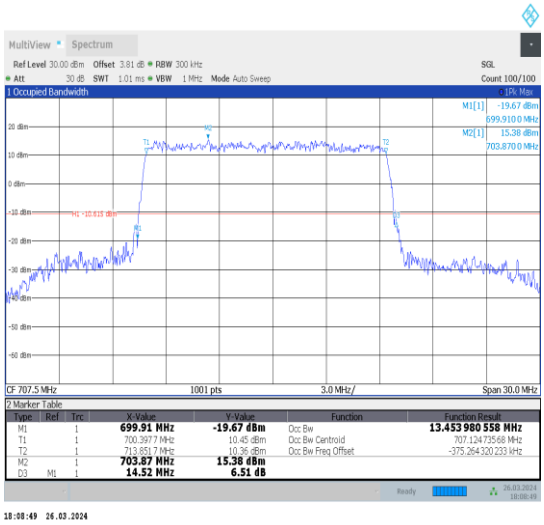

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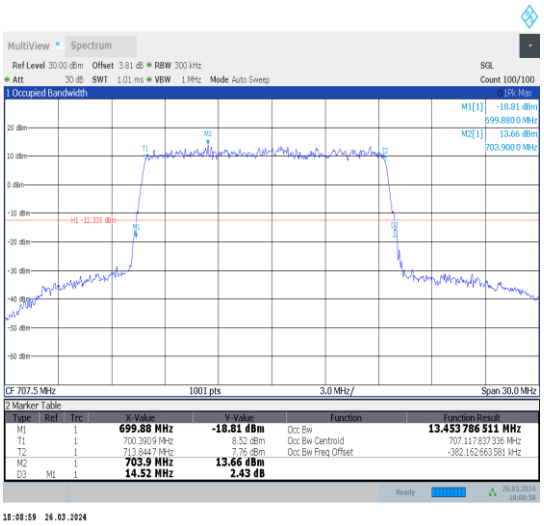

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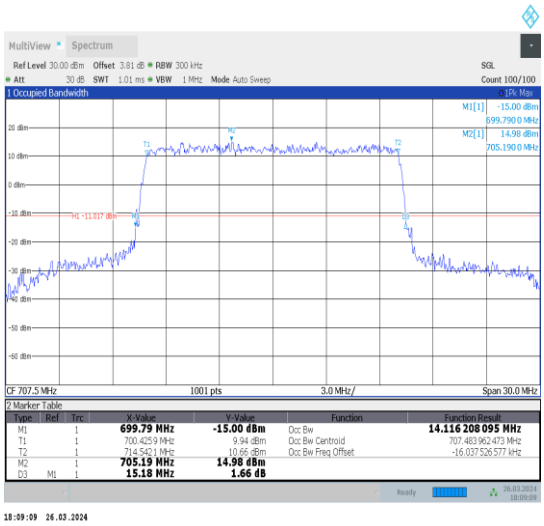

1-N12-15-15-M-6-CP-QPSK-Outer_Full-79@0-Ant1-14.116-15.180-≤15-PASS

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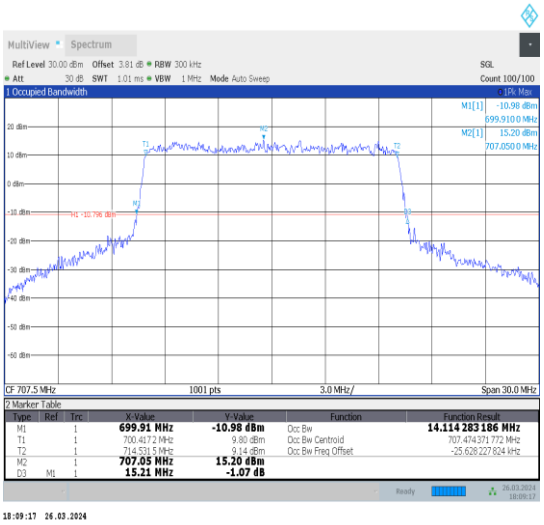

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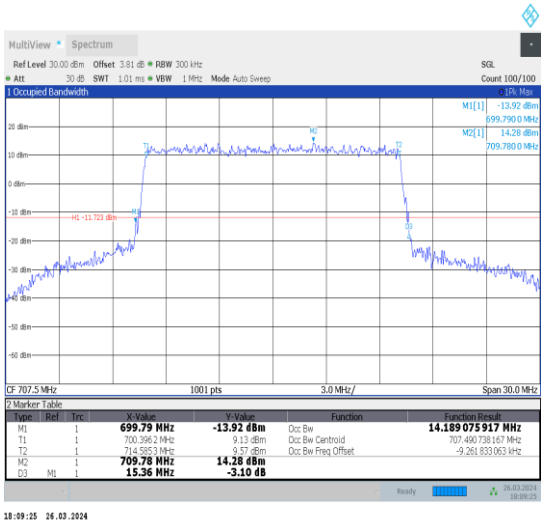

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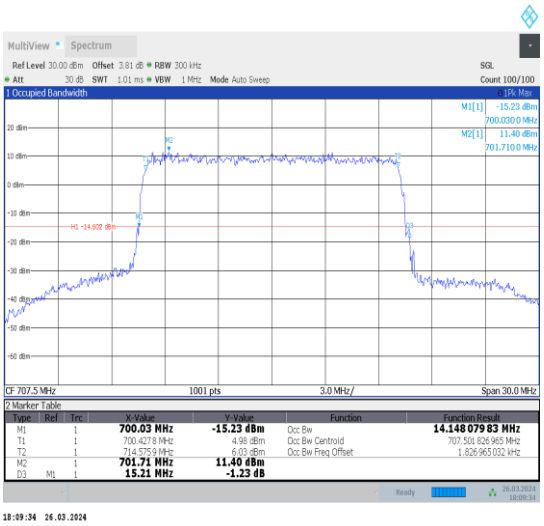

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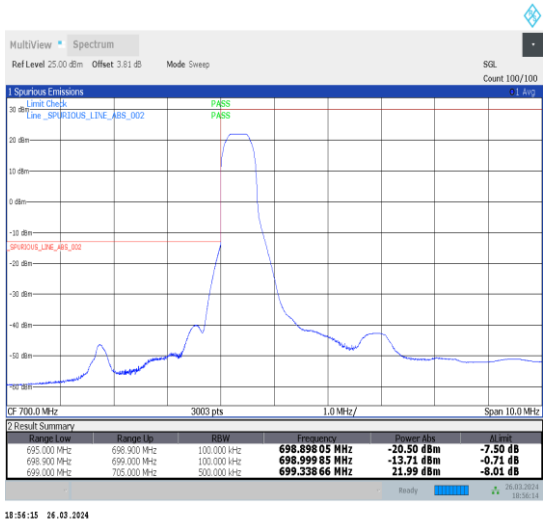
Band Edge for SA

Test Graphs



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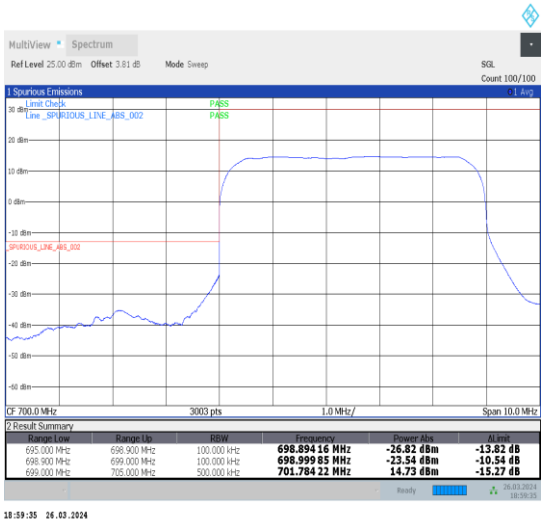

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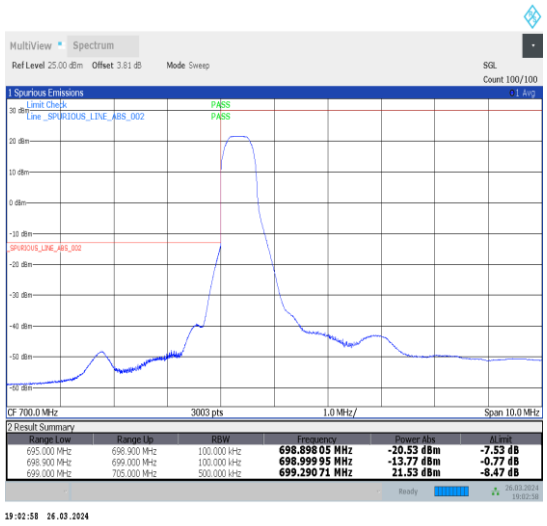

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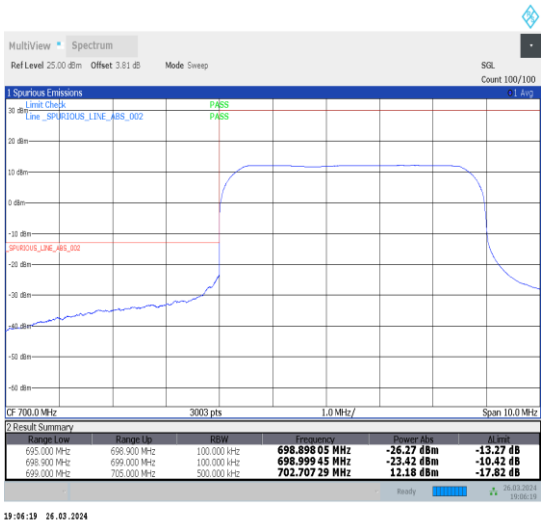

1-N12-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-1--PASS-see graph

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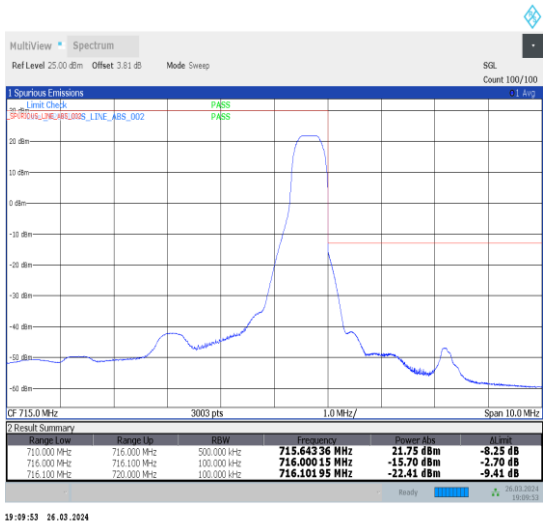

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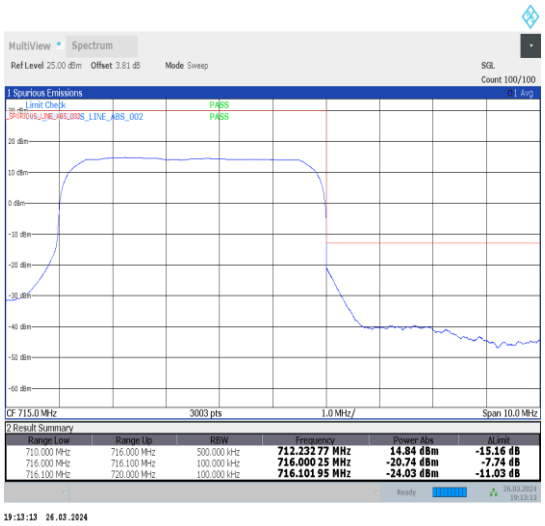

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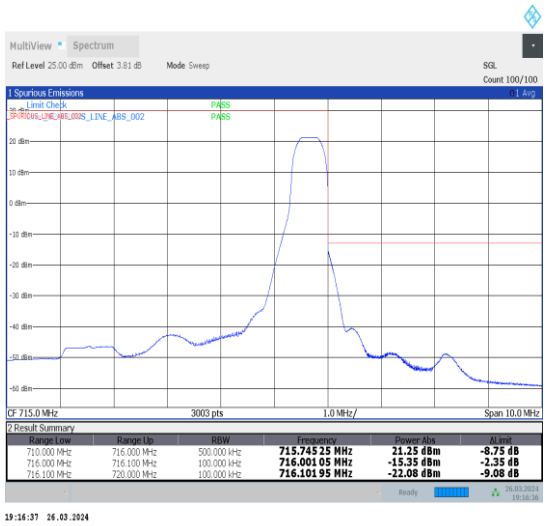

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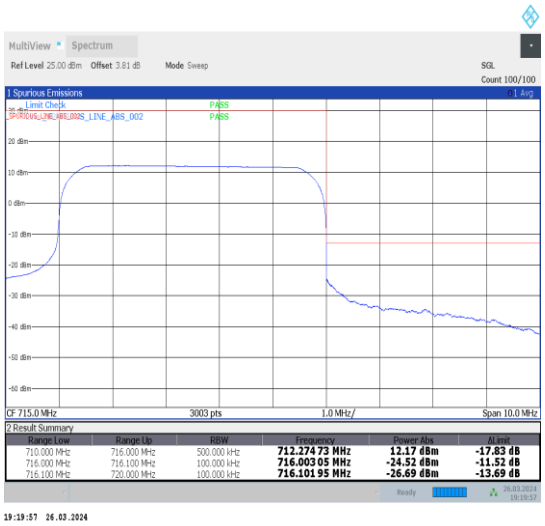

1-N12-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-1--PASS-see graph

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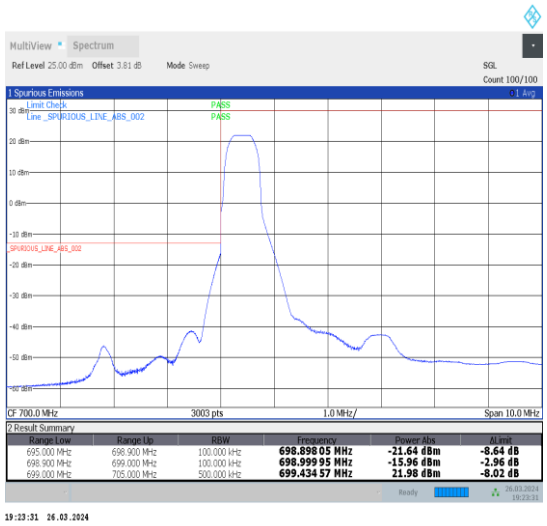

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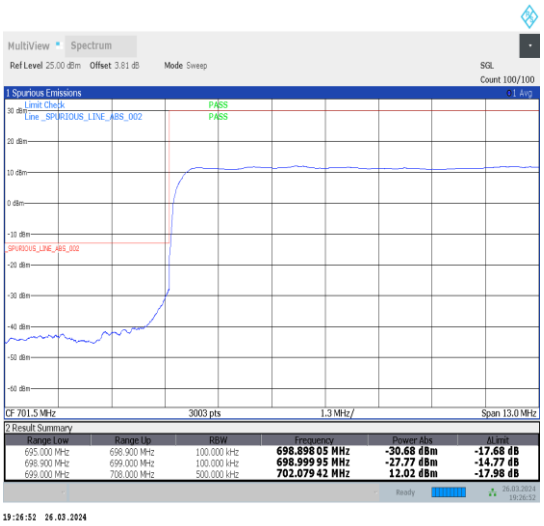

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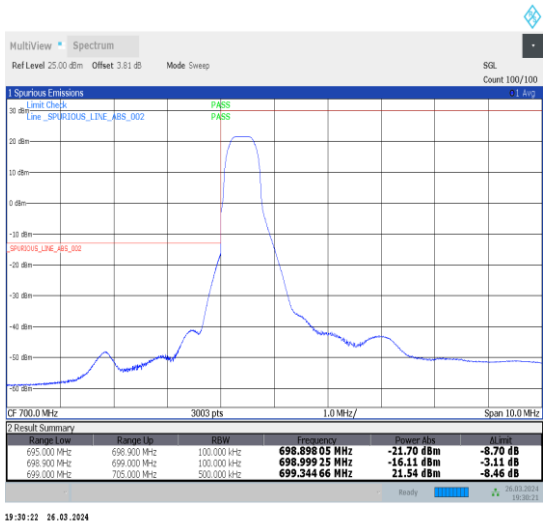

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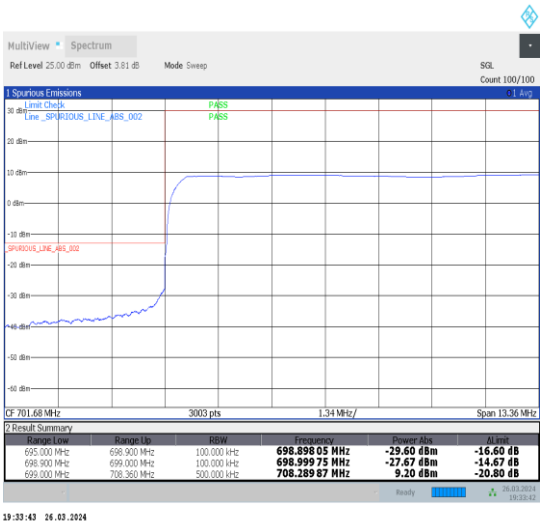

1-N12-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-1--PASS-see graph

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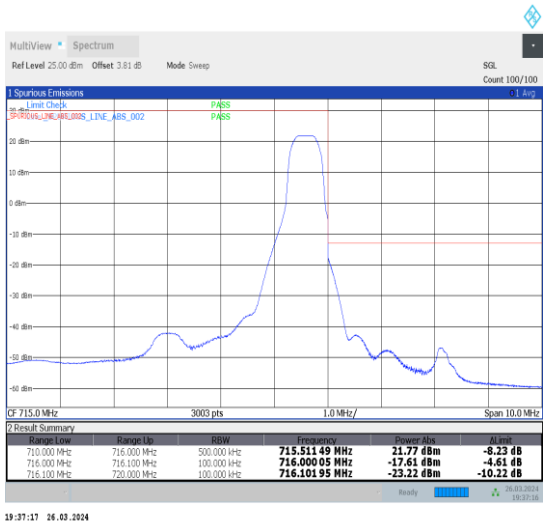

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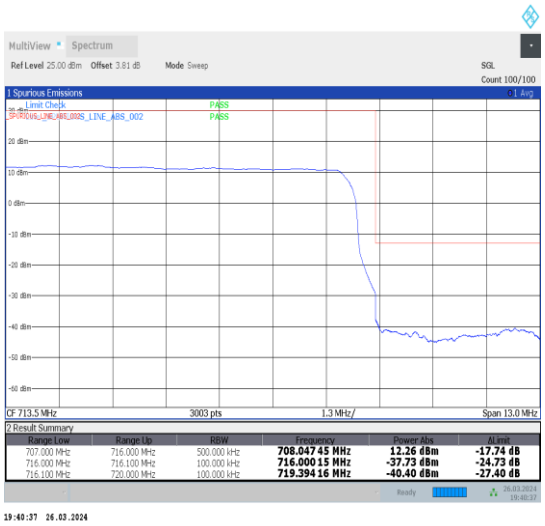

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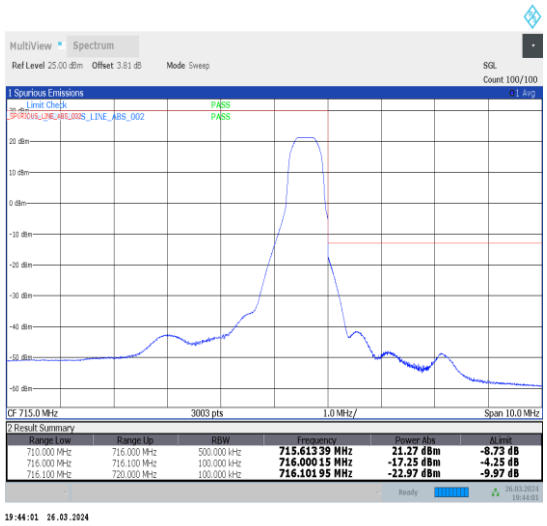

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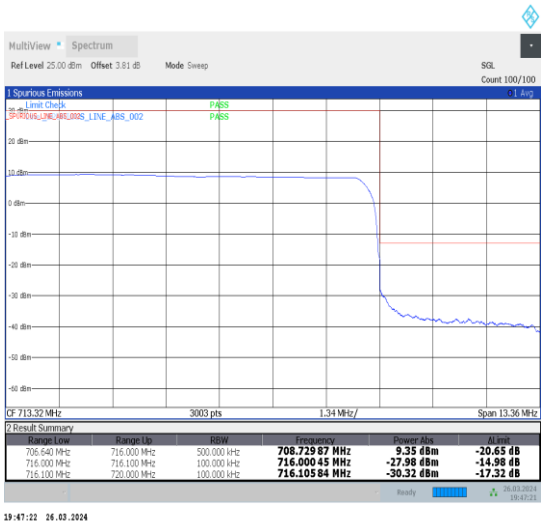

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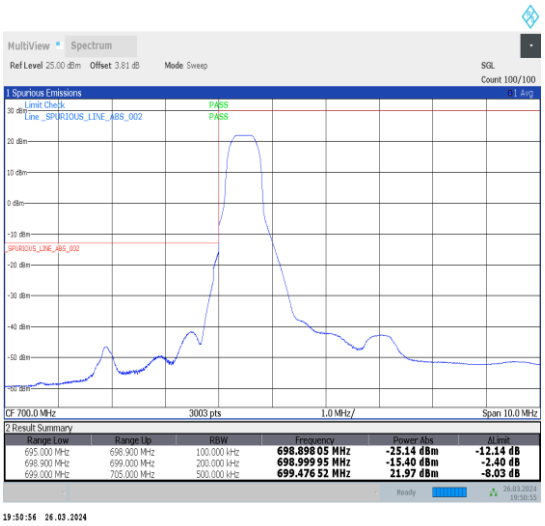

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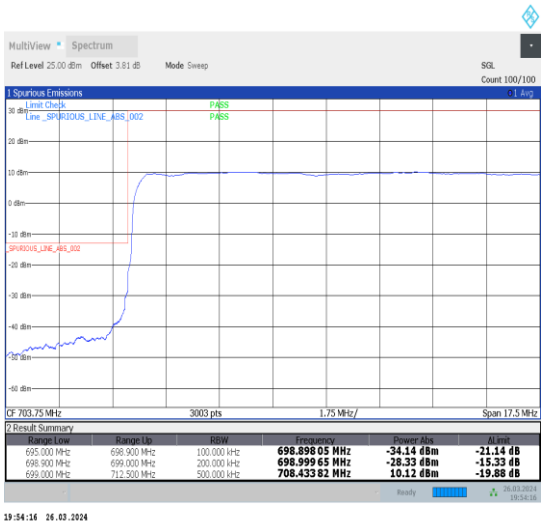

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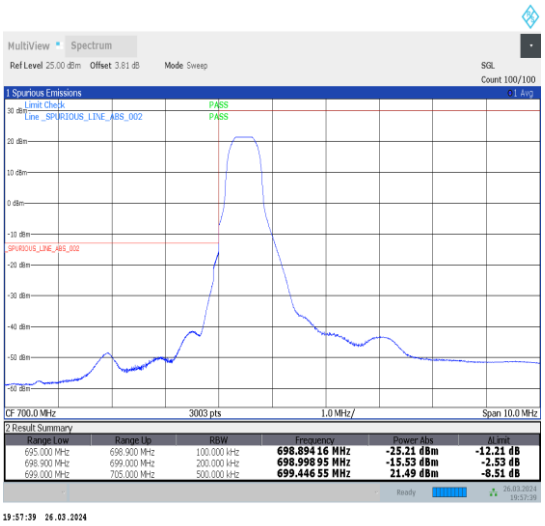

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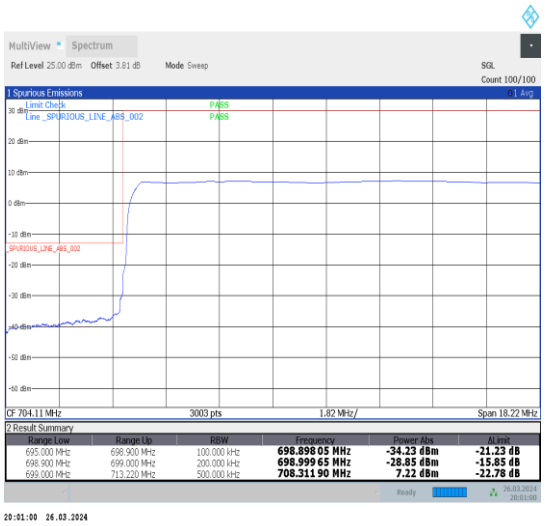

1-N12-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-1--PASS-see graph

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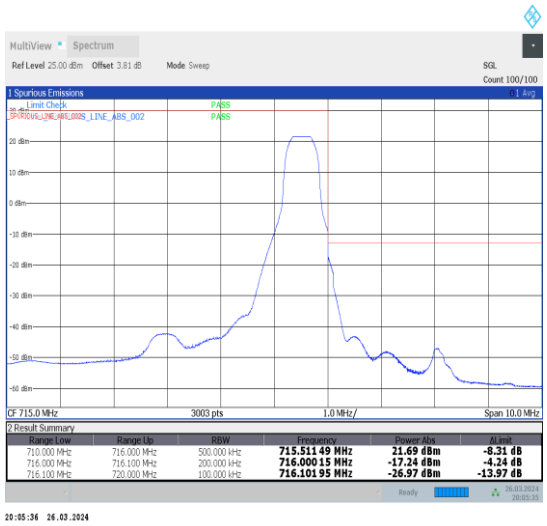

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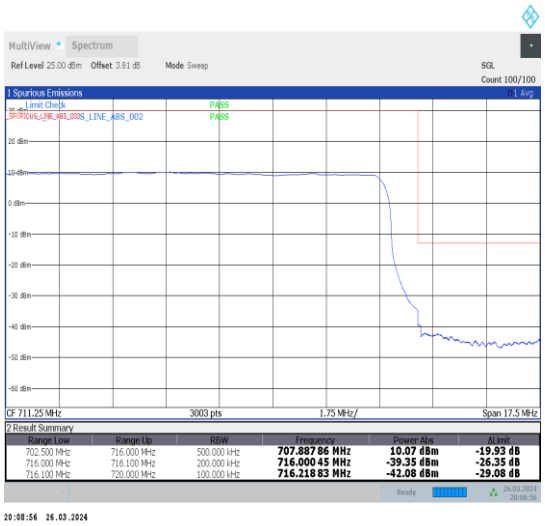

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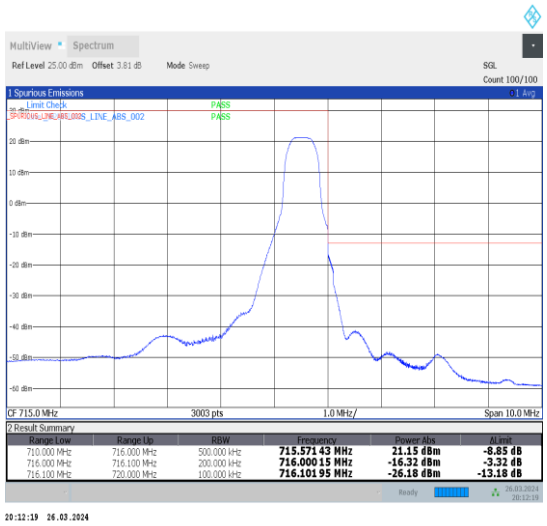

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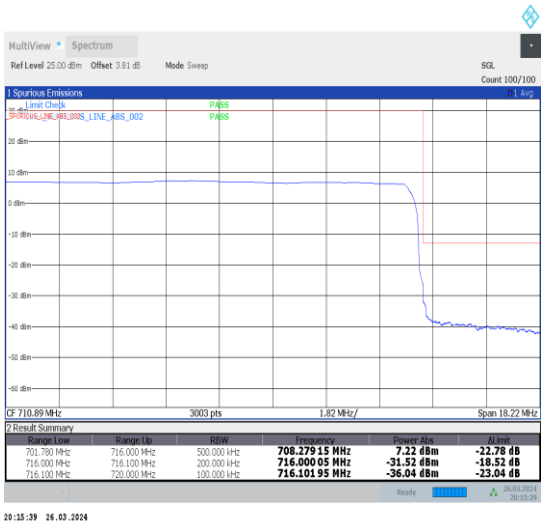

1-N12-15-15-H-6-CP-QPSK-Outer_Full-79@0-Ant1-1--PASS-see graph

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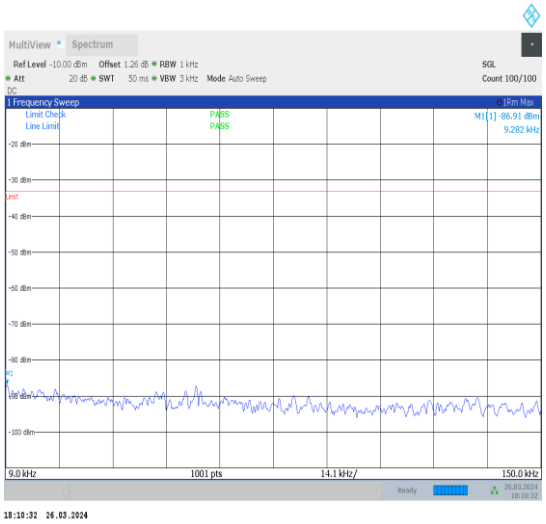
Test Graphs



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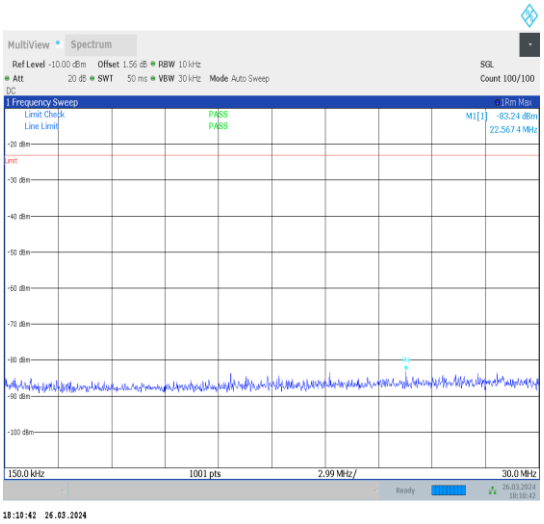

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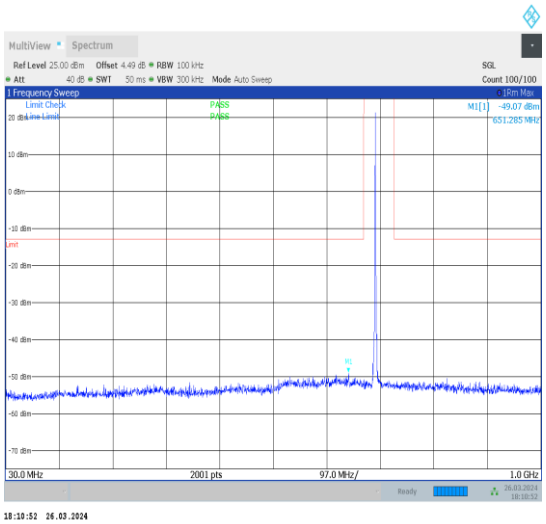

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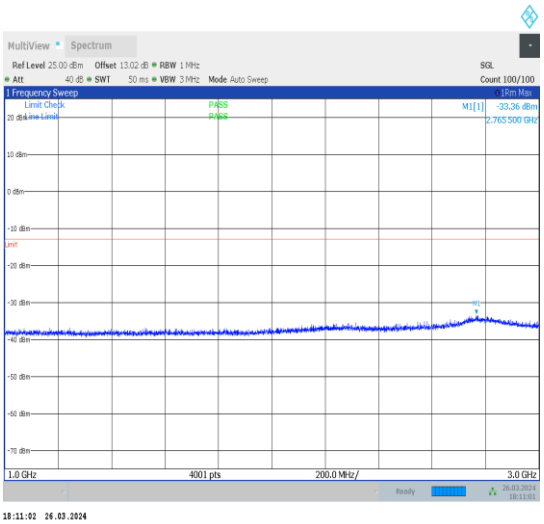

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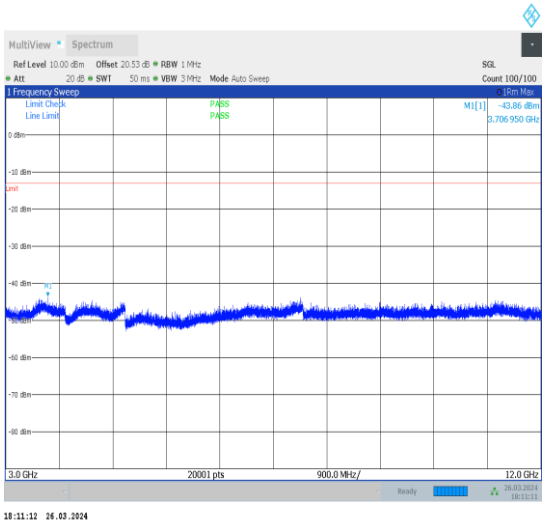

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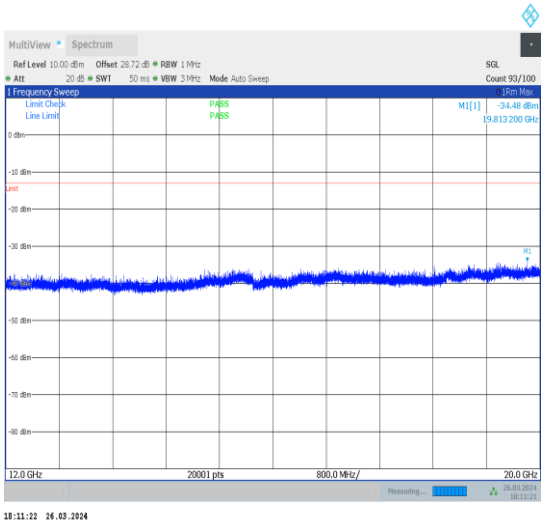

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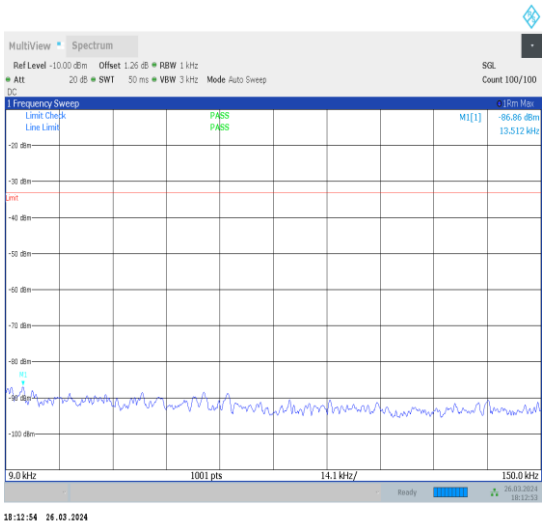

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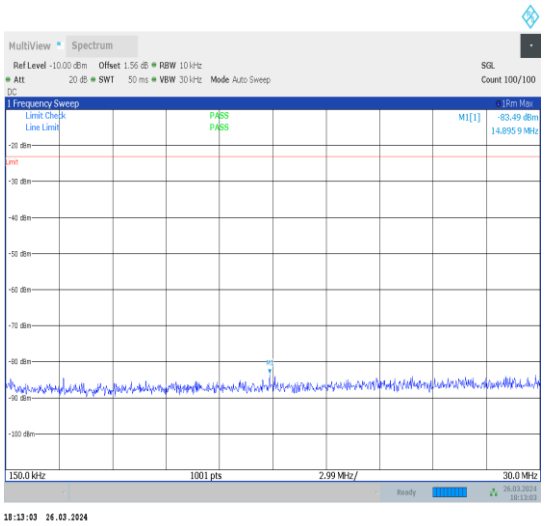

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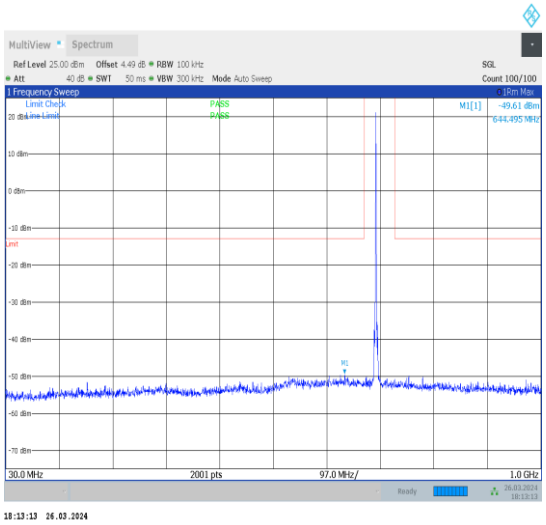

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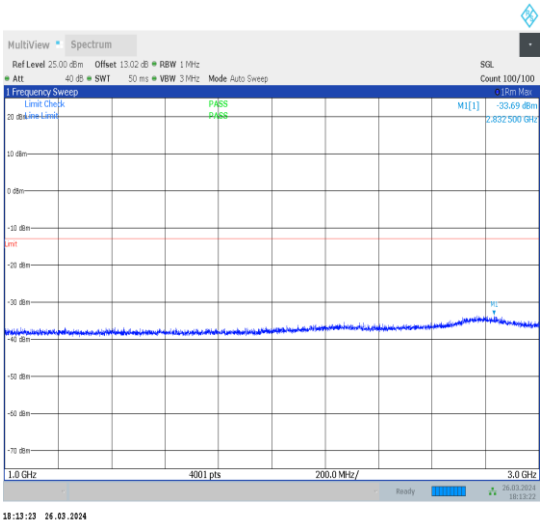

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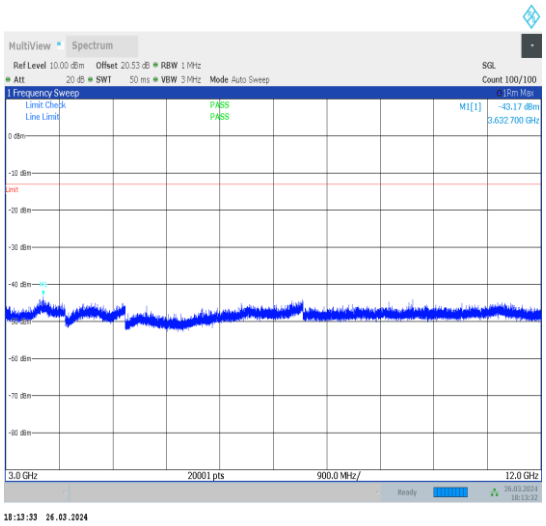

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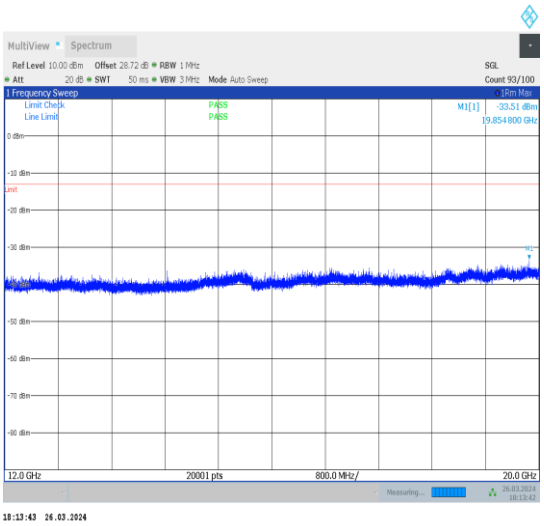

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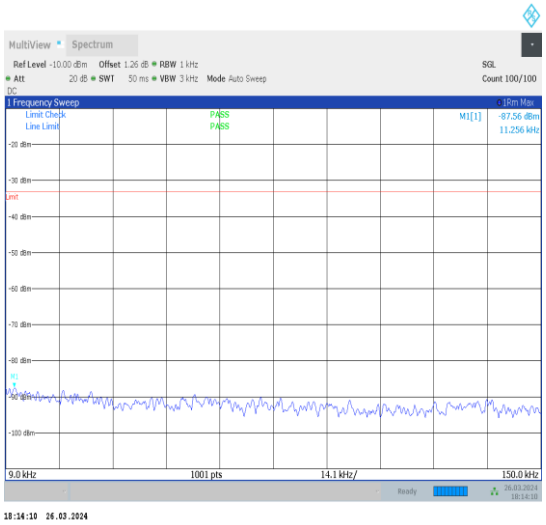

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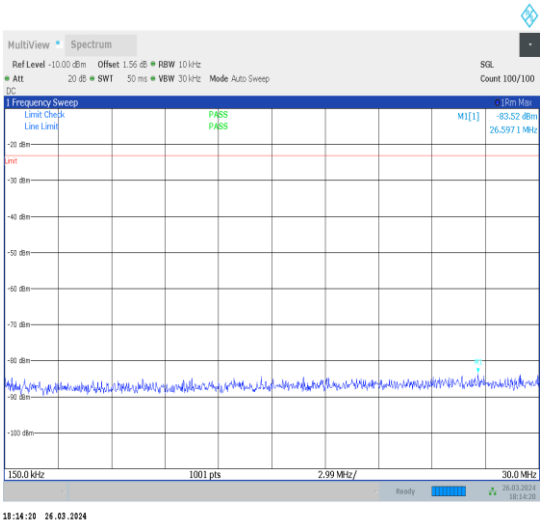

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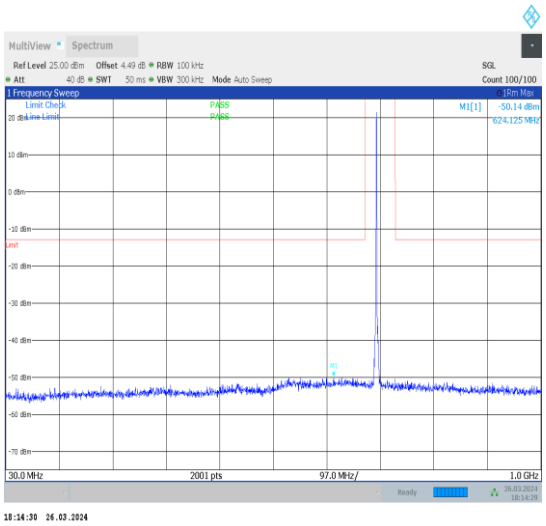

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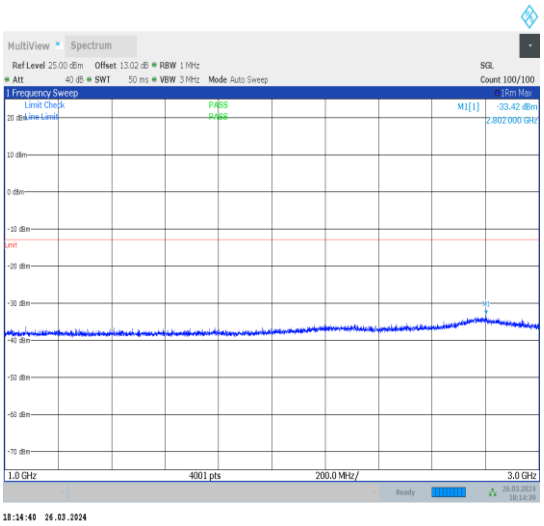

1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1-2802.00--33.42--13-PASS

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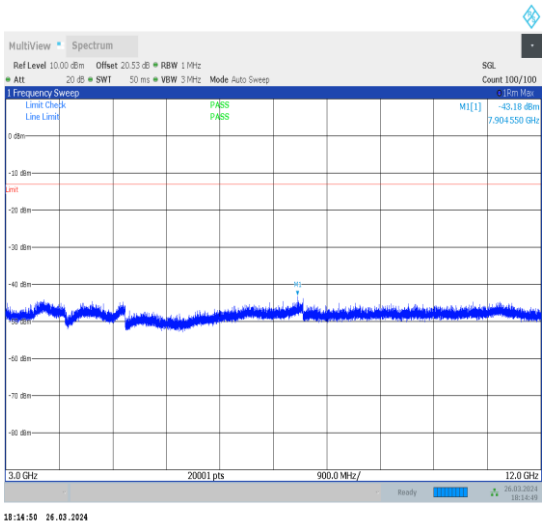	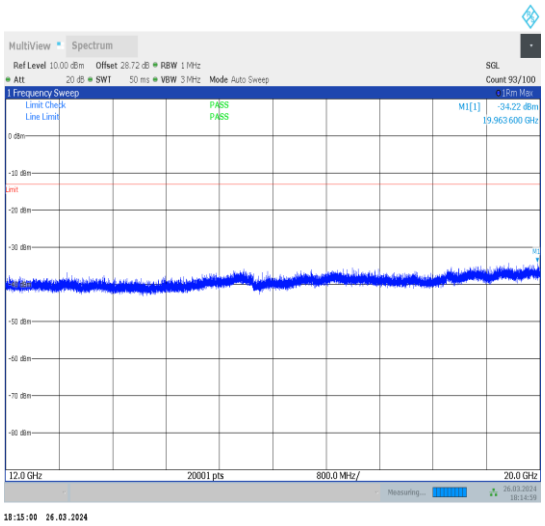
1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-3000-12000-Ant1-7904.55--43.18--13-PASS	1-N12-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@ 1-12000-20000-Ant1-19963.60--34.22--13-PASS

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Member of the SGS Group (SGS SA)

Field Strength of Spurious Radiation

Test Band = SA_n12
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1439	47.45	-46.79	25.21	-69.39	-13.00	56.39	Horizontal
2	1812.5	48.85	-46.60	25.45	-67.56	-13.00	54.56	Horizontal
3	2779.5	46.97	-45.25	28.22	-65.32	-13.00	52.32	Horizontal
4	4410.5	46.55	-43.26	30.10	-61.87	-13.00	48.87	Horizontal
5	6792.5	44.81	-39.11	35.37	-54.19	-13.00	41.19	Horizontal
6	9939	42.14	-34.94	38.64	-49.42	-13.00	36.42	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1399	49.74	-46.76	24.90	-67.38	-13.00	54.38	Vertical
2	1812.5	51.62	-46.60	25.45	-64.79	-13.00	51.79	Vertical
3	2464.5	47.82	-45.58	27.66	-65.36	-13.00	52.36	Vertical
4	3944	46.83	-43.87	29.88	-62.42	-13.00	49.42	Vertical
5	5576.5	46.09	-41.57	32.41	-58.33	-13.00	45.33	Vertical
6	7422.5	43.76	-37.99	36.75	-52.74	-13.00	39.74	Vertical

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Test Band = SA_n12
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1400.5	48.11	-46.75	24.90	-69.00	-13.00	56.00	Horizontal
2	1812.5	48.51	-46.60	25.45	-67.90	-13.00	54.90	Horizontal
3	2464.5	47.34	-45.58	27.66	-65.84	-13.00	52.84	Horizontal
4	3135	47.11	-45.01	28.76	-64.40	-13.00	51.40	Horizontal
5	4316.5	46.54	-42.89	29.63	-61.98	-13.00	48.98	Horizontal
6	8364	43.50	-36.63	36.36	-52.03	-13.00	39.03	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1812.5	52.04	-46.60	25.45	-64.37	-13.00	51.37	Vertical
2	2520.5	47.30	-45.65	27.80	-65.81	-13.00	52.81	Vertical
3	3547	46.95	-44.76	29.01	-64.06	-13.00	51.06	Vertical
4	4624	46.15	-42.97	30.15	-61.93	-13.00	48.93	Vertical
5	5610	45.44	-41.43	32.58	-58.67	-13.00	45.67	Vertical
6	8484.5	42.86	-36.03	36.47	-51.96	-13.00	38.96	Vertical

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Test Band = SA_n12
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1403	50.07	-46.75	24.92	-67.02	-13.00	54.02	Horizontal
2	1812.5	49.92	-46.60	25.45	-66.49	-13.00	53.49	Horizontal
3	2795.5	46.85	-45.16	28.28	-65.29	-13.00	52.29	Horizontal
4	4050	46.96	-43.79	29.60	-62.49	-13.00	49.49	Horizontal
5	5150.5	45.93	-42.33	31.80	-59.86	-13.00	46.86	Horizontal
6	7025	43.97	-38.91	35.90	-54.30	-13.00	41.30	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1075.5	48.09	-47.12	24.20	-70.09	-13.00	57.09	Vertical
2	1812.5	51.94	-46.60	25.45	-64.47	-13.00	51.47	Vertical
3	2519	47.22	-45.66	27.80	-65.90	-13.00	52.90	Vertical
4	3816.5	47.16	-44.15	29.77	-62.48	-13.00	49.48	Vertical
5	6196	45.12	-40.29	33.48	-56.95	-13.00	43.95	Vertical
6	9778.5	42.27	-35.05	38.41	-49.63	-13.00	36.63	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA_B48+n12
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.7899	46.18	-18.59	24.90	-42.77	-13.00	29.77	Horizontal
2	5038.5038	27.89	-13.37	31.51	-49.23	-13.00	36.23	Horizontal
3	7245.8123	60.77	-38.80	36.33	-36.96	-13.00	23.96	Horizontal
4	10868.4934	51.78	-35.47	40.01	-38.94	-13.00	25.94	Horizontal
5	14491.1746	43.68	-32.17	41.60	-42.15	-13.00	29.15	Horizontal
6	16481.3491	41.26	-28.96	39.21	-43.75	-13.00	30.75	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1398.7899	38.15	-18.59	24.90	-50.80	-13.00	37.80	Vertical
2	5184.2684	28.24	-12.96	31.87	-48.11	-13.00	35.11	Vertical
3	7245.8123	61.93	-38.80	36.33	-35.80	-13.00	22.80	Vertical
4	10868.4934	54.99	-35.47	40.01	-35.73	-13.00	22.73	Vertical
5	14491.1746	44.98	-32.17	41.60	-40.85	-13.00	27.85	Vertical
6	16483.6492	41.66	-29.02	39.22	-43.40	-13.00	30.40	Vertical

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Member of the SGS Group (SGS SA)

Test Band = NSA_B48+n12
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1400.9901	47.50	-18.58	24.91	-41.43	-13.00	28.43	Horizontal
2	7245.8123	60.14	-38.80	36.33	-37.59	-13.00	24.59	Horizontal
3	8486.1493	42.87	-36.69	36.47	-52.61	-13.00	39.61	Horizontal
4	10868.4934	51.46	-35.47	40.01	-39.26	-13.00	26.26	Horizontal
5	14491.1746	42.93	-32.17	41.60	-42.90	-13.00	29.90	Horizontal
6	17963.1982	41.12	-39.74	47.54	-46.34	-13.00	33.34	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1400.9901	43.73	-18.58	24.91	-45.20	-13.00	32.20	Vertical
2	5070.9571	28.15	-13.26	31.56	-48.81	-13.00	35.81	Vertical
3	7245.8123	62.89	-38.80	36.33	-34.84	-13.00	21.84	Vertical
4	10868.4934	54.88	-35.47	40.01	-35.84	-13.00	22.84	Vertical
5	14491.1746	44.07	-32.17	41.60	-41.76	-13.00	28.76	Vertical
6	16462.3731	41.12	-28.51	39.11	-43.54	-13.00	30.54	Vertical

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Test Band = NSA_B48+n12
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1403.1903	44.01	-18.57	24.93	-44.89	-13.00	31.89	Horizontal
2	7245.8123	58.60	-38.80	36.33	-39.13	-13.00	26.13	Horizontal
3	9123.2812	42.33	-35.60	37.05	-51.48	-13.00	38.48	Horizontal
4	10868.4934	52.11	-35.47	40.01	-38.61	-13.00	25.61	Horizontal
5	14766.0383	40.97	-30.47	41.70	-43.06	-13.00	30.06	Horizontal
6	17958.5979	41.32	-39.74	47.45	-46.23	-13.00	33.23	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1402.6403	43.70	-18.57	24.92	-45.21	-13.00	32.21	Vertical
2	5036.3036	28.29	-13.39	31.49	-48.87	-13.00	35.87	Vertical
3	7245.8123	62.32	-38.80	36.33	-35.41	-13.00	22.41	Vertical
4	10868.4934	54.30	-35.47	40.01	-36.42	-13.00	23.42	Vertical
5	14491.1746	44.48	-32.17	41.60	-41.35	-13.00	28.35	Vertical
6	17877.5189	41.91	-39.35	46.27	-46.43	-13.00	33.43	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

2) All antennas of RSE are tested, and only the worst data is presented.

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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.700000	-0.002403	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.800000	-0.005371	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	-4.100000	-0.005795	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VH	NT	-3.100000	-0.004382	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VN	NT	-0.700000	-0.000989	PASS
N12	15	15	CP-QPSK	M	Outer_Full	VL	NT	1.100000	0.001555	PASS

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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	-3.200000	-0.004523	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	-4.600000	-0.006502	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	-3.000000	-0.004240	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.400000	-0.006219	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	-1.600000	-0.002261	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	1.800000	0.002544	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	-1.800000	-0.002544	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	-3.000000	-0.004240	PASS
N12	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	-2.100000	-0.002968	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-30	-0.500000	-0.000707	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-20	-1.200000	-0.001696	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	-10	0.000000	0.000000	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	0	-1.500000	-0.002120	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	10	0.500000	0.000707	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	20	-2.800000	-0.003958	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	30	-1.400000	-0.001979	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	40	-2.000000	-0.002827	PASS
N12	15	15	CP-QPSK	M	Outer_Full	NV	50	2.600000	0.003675	PASS

---End of Attachment---

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