



Appendix B.14

LTE Band 41



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant31:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band41	5MHz	QPSK	40065	1RB#0	22.8	19.4	33	PASS
Band41	5MHz	QPSK	40065	1RB#12	23.07	19.67	33	PASS
Band41	5MHz	QPSK	40065	1RB#24	22.79	19.39	33	PASS
Band41	5MHz	QPSK	40065	12RB#0	21.96	18.56	33	PASS
Band41	5MHz	QPSK	40065	12RB#6	22.02	18.62	33	PASS
Band41	5MHz	QPSK	40065	12RB#13	21.96	18.56	33	PASS
Band41	5MHz	QPSK	40065	25RB#0	21.96	18.56	33	PASS
Band41	5MHz	QPSK	40640	1RB#0	23.07	19.67	33	PASS
Band41	5MHz	QPSK	40640	1RB#12	23.34	19.94	33	PASS
Band41	5MHz	QPSK	40640	1RB#24	22.98	19.58	33	PASS
Band41	5MHz	QPSK	40640	12RB#0	22.14	18.74	33	PASS
Band41	5MHz	QPSK	40640	12RB#6	22.17	18.77	33	PASS
Band41	5MHz	QPSK	40640	12RB#13	22.08	18.68	33	PASS
Band41	5MHz	QPSK	40640	25RB#0	21.97	18.57	33	PASS
Band41	5MHz	QPSK	41215	1RB#0	22.96	19.56	33	PASS
Band41	5MHz	QPSK	41215	1RB#12	23.22	19.82	33	PASS
Band41	5MHz	QPSK	41215	1RB#24	22.97	19.57	33	PASS
Band41	5MHz	QPSK	41215	12RB#0	22.18	18.78	33	PASS
Band41	5MHz	QPSK	41215	12RB#6	22.22	18.82	33	PASS
Band41	5MHz	QPSK	41215	12RB#13	22.11	18.71	33	PASS
Band41	5MHz	QPSK	41215	25RB#0	22.11	18.71	33	PASS
Band41	5MHz	16QAM	40065	1RB#0	21.94	18.54	33	PASS
Band41	5MHz	16QAM	40065	1RB#12	22.17	18.77	33	PASS
Band41	5MHz	16QAM	40065	1RB#24	21.94	18.54	33	PASS
Band41	5MHz	16QAM	40065	12RB#0	20.99	17.59	33	PASS
Band41	5MHz	16QAM	40065	12RB#6	21.06	17.66	33	PASS
Band41	5MHz	16QAM	40065	12RB#13	21	17.6	33	PASS
Band41	5MHz	16QAM	40065	25RB#0	21.07	17.67	33	PASS
Band41	5MHz	16QAM	40640	1RB#0	22.2	18.8	33	PASS
Band41	5MHz	16QAM	40640	1RB#12	22.48	19.08	33	PASS
Band41	5MHz	16QAM	40640	1RB#24	22.11	18.71	33	PASS



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Band41	5MHz	16QAM	40640	12RB#0	21.16	17.76	33	PASS
Band41	5MHz	16QAM	40640	12RB#6	21.16	17.76	33	PASS
Band41	5MHz	16QAM	40640	12RB#13	21.13	17.73	33	PASS
Band41	5MHz	16QAM	40640	25RB#0	21.22	17.82	33	PASS
Band41	5MHz	16QAM	41215	1RB#0	22.05	18.65	33	PASS
Band41	5MHz	16QAM	41215	1RB#12	22.3	18.9	33	PASS
Band41	5MHz	16QAM	41215	1RB#24	22.09	18.69	33	PASS
Band41	5MHz	16QAM	41215	12RB#0	21.13	17.73	33	PASS
Band41	5MHz	16QAM	41215	12RB#6	21.18	17.78	33	PASS
Band41	5MHz	16QAM	41215	12RB#13	21.13	17.73	33	PASS
Band41	5MHz	16QAM	41215	25RB#0	21.21	17.81	33	PASS
Band41	5MHz	64QAM	40065	1RB#0	20.54	17.14	33	PASS
Band41	5MHz	64QAM	40065	1RB#12	20.85	17.45	33	PASS
Band41	5MHz	64QAM	40065	1RB#24	20.54	17.14	33	PASS
Band41	5MHz	64QAM	40065	12RB#0	20.02	16.62	33	PASS
Band41	5MHz	64QAM	40065	12RB#6	20.06	16.66	33	PASS
Band41	5MHz	64QAM	40065	12RB#13	20	16.6	33	PASS
Band41	5MHz	64QAM	40065	25RB#0	20.04	16.64	33	PASS
Band41	5MHz	64QAM	40640	1RB#0	20.74	17.34	33	PASS
Band41	5MHz	64QAM	40640	1RB#12	21.06	17.66	33	PASS
Band41	5MHz	64QAM	40640	1RB#24	20.74	17.34	33	PASS
Band41	5MHz	64QAM	40640	12RB#0	20.16	16.76	33	PASS
Band41	5MHz	64QAM	40640	12RB#6	20.22	16.82	33	PASS
Band41	5MHz	64QAM	40640	12RB#13	20.17	16.77	33	PASS
Band41	5MHz	64QAM	40640	25RB#0	20.19	16.79	33	PASS
Band41	5MHz	64QAM	41215	1RB#0	20.66	17.26	33	PASS
Band41	5MHz	64QAM	41215	1RB#12	20.94	17.54	33	PASS
Band41	5MHz	64QAM	41215	1RB#24	20.62	17.22	33	PASS
Band41	5MHz	64QAM	41215	12RB#0	20.13	16.73	33	PASS
Band41	5MHz	64QAM	41215	12RB#6	20.16	16.76	33	PASS
Band41	5MHz	64QAM	41215	12RB#13	20.08	16.68	33	PASS
Band41	5MHz	64QAM	41215	25RB#0	20.14	16.74	33	PASS
Band41	10MHz	QPSK	40090	1RB#0	22.97	19.57	33	PASS
Band41	10MHz	QPSK	40090	1RB#24	23.05	19.65	33	PASS
Band41	10MHz	QPSK	40090	1RB#49	22.92	19.52	33	PASS
Band41	10MHz	QPSK	40090	25RB#0	21.97	18.57	33	PASS
Band41	10MHz	QPSK	40090	25RB#12	21.99	18.59	33	PASS
Band41	10MHz	QPSK	40090	25RB#25	21.99	18.59	33	PASS



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Band41	10MHz	QPSK	40090	50RB#0	22.07	18.67	33	PASS
Band41	10MHz	QPSK	40640	1RB#0	23.21	19.81	33	PASS
Band41	10MHz	QPSK	40640	1RB#24	23.29	19.89	33	PASS
Band41	10MHz	QPSK	40640	1RB#49	23.15	19.75	33	PASS
Band41	10MHz	QPSK	40640	25RB#0	22.24	18.84	33	PASS
Band41	10MHz	QPSK	40640	25RB#12	22.26	18.86	33	PASS
Band41	10MHz	QPSK	40640	25RB#25	22.19	18.79	33	PASS
Band41	10MHz	QPSK	40640	50RB#0	22.12	18.72	33	PASS
Band41	10MHz	QPSK	41190	1RB#0	23.15	19.75	33	PASS
Band41	10MHz	QPSK	41190	1RB#24	23.23	19.83	33	PASS
Band41	10MHz	QPSK	41190	1RB#49	23.11	19.71	33	PASS
Band41	10MHz	QPSK	41190	25RB#0	22.19	18.79	33	PASS
Band41	10MHz	QPSK	41190	25RB#12	22.21	18.81	33	PASS
Band41	10MHz	QPSK	41190	25RB#25	22.17	18.77	33	PASS
Band41	10MHz	QPSK	41190	50RB#0	22.17	18.77	33	PASS
Band41	10MHz	16QAM	40090	1RB#0	22.05	18.65	33	PASS
Band41	10MHz	16QAM	40090	1RB#24	22.16	18.76	33	PASS
Band41	10MHz	16QAM	40090	1RB#49	22.04	18.64	33	PASS
Band41	10MHz	16QAM	40090	25RB#0	21.09	17.69	33	PASS
Band41	10MHz	16QAM	40090	25RB#12	21.18	17.78	33	PASS
Band41	10MHz	16QAM	40090	25RB#25	21.13	17.73	33	PASS
Band41	10MHz	16QAM	40090	50RB#0	21.21	17.81	33	PASS
Band41	10MHz	16QAM	40640	1RB#0	22.31	18.91	33	PASS
Band41	10MHz	16QAM	40640	1RB#24	22.38	18.98	33	PASS
Band41	10MHz	16QAM	40640	1RB#49	22.25	18.85	33	PASS
Band41	10MHz	16QAM	40640	25RB#0	21.36	17.96	33	PASS
Band41	10MHz	16QAM	40640	25RB#12	21.34	17.94	33	PASS
Band41	10MHz	16QAM	40640	25RB#25	21.3	17.9	33	PASS
Band41	10MHz	16QAM	40640	50RB#0	21.28	17.88	33	PASS
Band41	10MHz	16QAM	41190	1RB#0	22.24	18.84	33	PASS
Band41	10MHz	16QAM	41190	1RB#24	22.34	18.94	33	PASS
Band41	10MHz	16QAM	41190	1RB#49	22.21	18.81	33	PASS
Band41	10MHz	16QAM	41190	25RB#0	21.31	17.91	33	PASS
Band41	10MHz	16QAM	41190	25RB#12	21.26	17.86	33	PASS
Band41	10MHz	16QAM	41190	25RB#25	21.28	17.88	33	PASS
Band41	10MHz	16QAM	41190	50RB#0	21.34	17.94	33	PASS
Band41	10MHz	64QAM	40090	1RB#0	20.66	17.26	33	PASS
Band41	10MHz	64QAM	40090	1RB#24	20.76	17.36	33	PASS



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Band41	10MHz	64QAM	40090	1RB#49	20.61	17.21	33	PASS
Band41	10MHz	64QAM	40090	25RB#0	20.1	16.7	33	PASS
Band41	10MHz	64QAM	40090	25RB#12	20.11	16.71	33	PASS
Band41	10MHz	64QAM	40090	25RB#25	20.1	16.7	33	PASS
Band41	10MHz	64QAM	40090	50RB#0	20.13	16.73	33	PASS
Band41	10MHz	64QAM	40640	1RB#0	20.85	17.45	33	PASS
Band41	10MHz	64QAM	40640	1RB#24	20.9	17.5	33	PASS
Band41	10MHz	64QAM	40640	1RB#49	20.81	17.41	33	PASS
Band41	10MHz	64QAM	40640	25RB#0	20.27	16.87	33	PASS
Band41	10MHz	64QAM	40640	25RB#12	20.29	16.89	33	PASS
Band41	10MHz	64QAM	40640	25RB#25	20.23	16.83	33	PASS
Band41	10MHz	64QAM	40640	50RB#0	20.27	16.87	33	PASS
Band41	10MHz	64QAM	41190	1RB#0	20.85	17.45	33	PASS
Band41	10MHz	64QAM	41190	1RB#24	20.87	17.47	33	PASS
Band41	10MHz	64QAM	41190	1RB#49	20.73	17.33	33	PASS
Band41	10MHz	64QAM	41190	25RB#0	20.2	16.8	33	PASS
Band41	10MHz	64QAM	41190	25RB#12	20.2	16.8	33	PASS
Band41	10MHz	64QAM	41190	25RB#25	20.18	16.78	33	PASS
Band41	10MHz	64QAM	41190	50RB#0	20.21	16.81	33	PASS
Band41	15MHz	QPSK	40115	1RB#0	22.88	19.48	33	PASS
Band41	15MHz	QPSK	40115	1RB#38	22.92	19.52	33	PASS
Band41	15MHz	QPSK	40115	1RB#74	22.85	19.45	33	PASS
Band41	15MHz	QPSK	40115	38RB#0	22.98	19.58	33	PASS
Band41	15MHz	QPSK	40115	38RB#18	22.96	19.56	33	PASS
Band41	15MHz	QPSK	40115	38RB#37	23.09	19.69	33	PASS
Band41	15MHz	QPSK	40115	75RB#0	21.95	18.55	33	PASS
Band41	15MHz	QPSK	40640	1RB#0	23.13	19.73	33	PASS
Band41	15MHz	QPSK	40640	1RB#38	23.15	19.75	33	PASS
Band41	15MHz	QPSK	40640	1RB#74	22.99	19.59	33	PASS
Band41	15MHz	QPSK	40640	38RB#0	23.16	19.76	33	PASS
Band41	15MHz	QPSK	40640	38RB#18	23.14	19.74	33	PASS
Band41	15MHz	QPSK	40640	38RB#37	23.31	19.91	33	PASS
Band41	15MHz	QPSK	40640	75RB#0	22.1	18.7	33	PASS
Band41	15MHz	QPSK	41165	1RB#0	23.03	19.63	33	PASS
Band41	15MHz	QPSK	41165	1RB#38	23.12	19.72	33	PASS
Band41	15MHz	QPSK	41165	1RB#74	22.98	19.58	33	PASS
Band41	15MHz	QPSK	41165	38RB#0	23.05	19.65	33	PASS
Band41	15MHz	QPSK	41165	38RB#18	23.07	19.67	33	PASS



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Band41	15MHz	QPSK	41165	38RB#37	23.24	19.84	33	PASS
Band41	15MHz	QPSK	41165	75RB#0	22.09	18.69	33	PASS
Band41	15MHz	16QAM	40115	1RB#0	21.99	18.59	33	PASS
Band41	15MHz	16QAM	40115	1RB#38	22.08	18.68	33	PASS
Band41	15MHz	16QAM	40115	1RB#74	21.98	18.58	33	PASS
Band41	15MHz	16QAM	40115	38RB#0	22.06	18.66	33	PASS
Band41	15MHz	16QAM	40115	38RB#18	22.06	18.66	33	PASS
Band41	15MHz	16QAM	40115	38RB#37	22.18	18.78	33	PASS
Band41	15MHz	16QAM	40115	75RB#0	21.11	17.71	33	PASS
Band41	15MHz	16QAM	40640	1RB#0	22.24	18.84	33	PASS
Band41	15MHz	16QAM	40640	1RB#38	22.29	18.89	33	PASS
Band41	15MHz	16QAM	40640	1RB#74	22.14	18.74	33	PASS
Band41	15MHz	16QAM	40640	38RB#0	22.24	18.84	33	PASS
Band41	15MHz	16QAM	40640	38RB#18	22.25	18.85	33	PASS
Band41	15MHz	16QAM	40640	38RB#37	22.37	18.97	33	PASS
Band41	15MHz	16QAM	40640	75RB#0	21.23	17.83	33	PASS
Band41	15MHz	16QAM	41165	1RB#0	22.13	18.73	33	PASS
Band41	15MHz	16QAM	41165	1RB#38	22.22	18.82	33	PASS
Band41	15MHz	16QAM	41165	1RB#74	22.08	18.68	33	PASS
Band41	15MHz	16QAM	41165	38RB#0	22.16	18.76	33	PASS
Band41	15MHz	16QAM	41165	38RB#18	22.17	18.77	33	PASS
Band41	15MHz	16QAM	41165	38RB#37	22.33	18.93	33	PASS
Band41	15MHz	16QAM	41165	75RB#0	21.24	17.84	33	PASS
Band41	15MHz	64QAM	40115	38RB#18	20.62	17.22	33	PASS
Band41	15MHz	64QAM	40115	38RB#0	20.61	17.21	33	PASS
Band41	15MHz	64QAM	40115	1RB#0	20.52	17.12	33	PASS
Band41	15MHz	64QAM	40115	1RB#38	20.59	17.19	33	PASS
Band41	15MHz	64QAM	40115	1RB#74	20.5	17.1	33	PASS
Band41	15MHz	64QAM	40115	36RB#0	19.9	16.5	33	PASS
Band41	15MHz	64QAM	40115	36RB#18	19.87	16.47	33	PASS
Band41	15MHz	64QAM	40115	36RB#39	19.89	16.49	33	PASS
Band41	15MHz	64QAM	40115	75RB#0	19.99	16.59	33	PASS
Band41	15MHz	64QAM	40640	1RB#0	20.78	17.38	33	PASS
Band41	15MHz	64QAM	40640	1RB#38	20.8	17.4	33	PASS
Band41	15MHz	64QAM	40640	1RB#74	20.65	17.25	33	PASS
Band41	15MHz	64QAM	40640	36RB#0	20.11	16.71	33	PASS
Band41	15MHz	64QAM	40640	36RB#18	20.11	16.71	33	PASS
Band41	15MHz	64QAM	40640	36RB#39	20.02	16.62	33	PASS



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Band41	15MHz	64QAM	40640	75RB#0	20.15	16.75	33	PASS
Band41	15MHz	64QAM	41165	1RB#0	20.67	17.27	33	PASS
Band41	15MHz	64QAM	41165	1RB#38	20.73	17.33	33	PASS
Band41	15MHz	64QAM	41165	1RB#74	20.63	17.23	33	PASS
Band41	15MHz	64QAM	41165	36RB#0	20.08	16.68	33	PASS
Band41	15MHz	64QAM	41165	36RB#18	20.04	16.64	33	PASS
Band41	15MHz	64QAM	41165	36RB#39	20.01	16.61	33	PASS
Band41	15MHz	64QAM	41165	75RB#0	20.05	16.65	33	PASS
Band41	20MHz	QPSK	40140	1RB#0	22.87	19.47	33	PASS
Band41	20MHz	QPSK	40140	1RB#49	23.12	19.72	33	PASS
Band41	20MHz	QPSK	40140	1RB#99	22.79	19.39	33	PASS
Band41	20MHz	QPSK	40140	50RB#0	21.91	18.51	33	PASS
Band41	20MHz	QPSK	40140	50RB#25	22.01	18.61	33	PASS
Band41	20MHz	QPSK	40140	50RB#50	22.05	18.65	33	PASS
Band41	20MHz	QPSK	40140	100RB#0	21.9	18.5	33	PASS
Band41	20MHz	QPSK	40640	1RB#0	23.27	19.87	33	PASS
Band41	20MHz	QPSK	40640	1RB#49	23.33	19.93	33	PASS
Band41	20MHz	QPSK	40640	1RB#99	22.92	19.52	33	PASS
Band41	20MHz	QPSK	40640	50RB#0	22.17	18.77	33	PASS
Band41	20MHz	QPSK	40640	50RB#25	22.13	18.73	33	PASS
Band41	20MHz	QPSK	40640	50RB#50	22.08	18.68	33	PASS
Band41	20MHz	QPSK	40640	100RB#0	22.1	18.7	33	PASS
Band41	20MHz	QPSK	41140	1RB#0	23.11	19.71	33	PASS
Band41	20MHz	QPSK	41140	1RB#49	23.21	19.81	33	PASS
Band41	20MHz	QPSK	41140	1RB#99	22.91	19.51	33	PASS
Band41	20MHz	QPSK	41140	50RB#0	22.09	18.69	33	PASS
Band41	20MHz	QPSK	41140	50RB#25	22.13	18.73	33	PASS
Band41	20MHz	QPSK	41140	50RB#50	22.06	18.66	33	PASS
Band41	20MHz	QPSK	41140	100RB#0	22.12	18.72	33	PASS
Band41	20MHz	16QAM	40140	1RB#0	21.98	18.58	33	PASS
Band41	20MHz	16QAM	40140	1RB#49	22.27	18.87	33	PASS
Band41	20MHz	16QAM	40140	1RB#99	21.89	18.49	33	PASS
Band41	20MHz	16QAM	40140	50RB#0	21.06	17.66	33	PASS
Band41	20MHz	16QAM	40140	50RB#25	21.16	17.76	33	PASS
Band41	20MHz	16QAM	40140	50RB#50	21.22	17.82	33	PASS
Band41	20MHz	16QAM	40140	100RB#0	21.1	17.7	33	PASS
Band41	20MHz	16QAM	40640	1RB#0	22.12	18.72	33	PASS
Band41	20MHz	16QAM	40640	1RB#49	22.42	19.02	33	PASS



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Band41	20MHz	16QAM	40640	1RB#99	22.05	18.65	33	PASS
Band41	20MHz	16QAM	40640	50RB#0	21.3	17.9	33	PASS
Band41	20MHz	16QAM	40640	50RB#25	21.3	17.9	33	PASS
Band41	20MHz	16QAM	40640	50RB#50	21.24	17.84	33	PASS
Band41	20MHz	16QAM	40640	100RB#0	21.24	17.84	33	PASS
Band41	20MHz	16QAM	41140	1RB#0	22.08	18.68	33	PASS
Band41	20MHz	16QAM	41140	1RB#49	22.3	18.9	33	PASS
Band41	20MHz	16QAM	41140	1RB#99	22.01	18.61	33	PASS
Band41	20MHz	16QAM	41140	50RB#0	21.28	17.88	33	PASS
Band41	20MHz	16QAM	41140	50RB#25	21.22	17.82	33	PASS
Band41	20MHz	16QAM	41140	50RB#50	21.2	17.8	33	PASS
Band41	20MHz	16QAM	41140	100RB#0	21.25	17.85	33	PASS
Band41	20MHz	64QAM	40140	1RB#0	20.51	17.11	33	PASS
Band41	20MHz	64QAM	40140	1RB#49	20.82	17.42	33	PASS
Band41	20MHz	64QAM	40140	1RB#99	20.4	17	33	PASS
Band41	20MHz	64QAM	40140	50RB#0	19.96	16.56	33	PASS
Band41	20MHz	64QAM	40140	50RB#25	20.01	16.61	33	PASS
Band41	20MHz	64QAM	40140	50RB#50	20.04	16.64	33	PASS
Band41	20MHz	64QAM	40140	100RB#0	19.94	16.54	33	PASS
Band41	20MHz	64QAM	40640	1RB#0	20.7	17.3	33	PASS
Band41	20MHz	64QAM	40640	1RB#49	21	17.6	33	PASS
Band41	20MHz	64QAM	40640	1RB#99	20.59	17.19	33	PASS
Band41	20MHz	64QAM	40640	50RB#0	20.14	16.74	33	PASS
Band41	20MHz	64QAM	40640	50RB#25	20.13	16.73	33	PASS
Band41	20MHz	64QAM	40640	50RB#50	20.05	16.65	33	PASS
Band41	20MHz	64QAM	40640	100RB#0	20.07	16.67	33	PASS
Band41	20MHz	64QAM	41140	1RB#0	20.61	17.21	33	PASS
Band41	20MHz	64QAM	41140	1RB#49	20.94	17.54	33	PASS
Band41	20MHz	64QAM	41140	1RB#99	20.57	17.17	33	PASS
Band41	20MHz	64QAM	41140	50RB#0	20.13	16.73	33	PASS
Band41	20MHz	64QAM	41140	50RB#25	20.17	16.77	33	PASS
Band41	20MHz	64QAM	41140	50RB#50	20.06	16.66	33	PASS
Band41	20MHz	64QAM	41140	100RB#0	20.1	16.7	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	40140	100RB#0	7.71	13	PASS
Band41	20MHz	QPSK	40640	100RB#0	7.54	13	PASS
Band41	20MHz	QPSK	41140	100RB#0	7.57	13	PASS
Band41	20MHz	16QAM	40140	100RB#0	8.67	13	PASS
Band41	20MHz	16QAM	40640	100RB#0	8.46	13	PASS
Band41	20MHz	16QAM	41140	100RB#0	8.32	13	PASS
Band41	20MHz	64QAM	40140	100RB#0	8.61	13	PASS
Band41	20MHz	64QAM	40640	100RB#0	8.52	13	PASS
Band41	20MHz	64QAM	41140	100RB#0	8.52	13	PASS



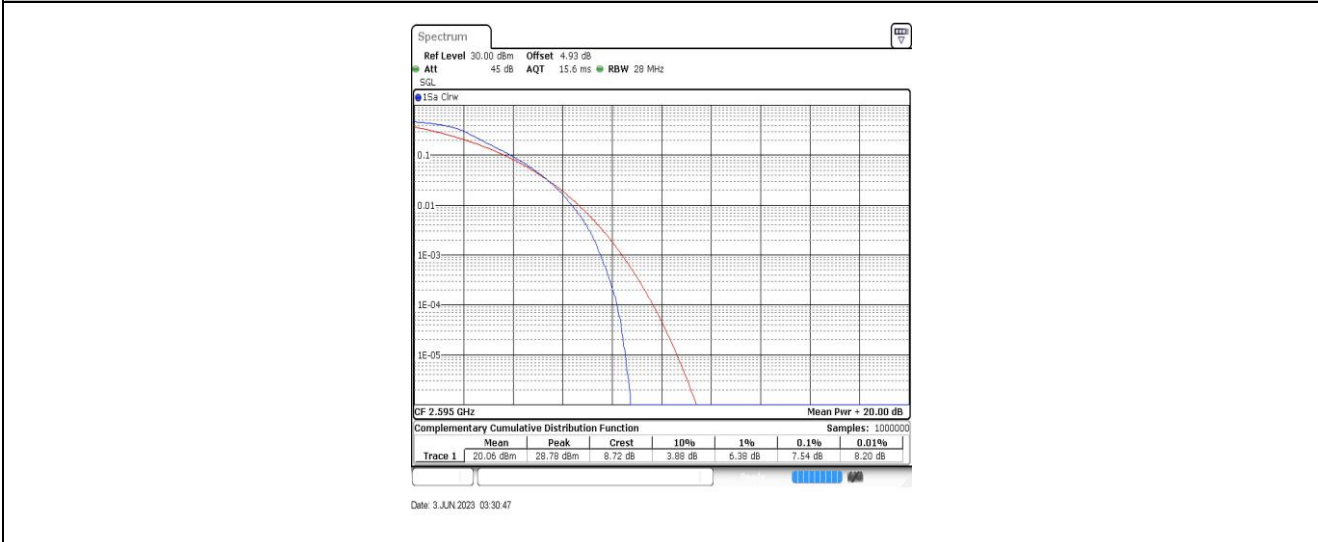
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Test Graphs



Band41-20MHz-QPSK-40140-100RB#0



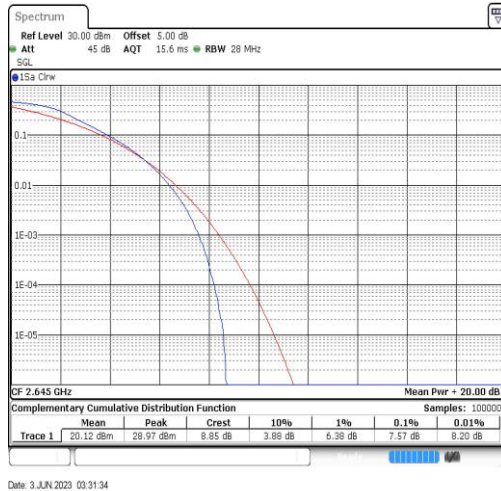
Band41-20MHz-QPSK-40640-100RB#0



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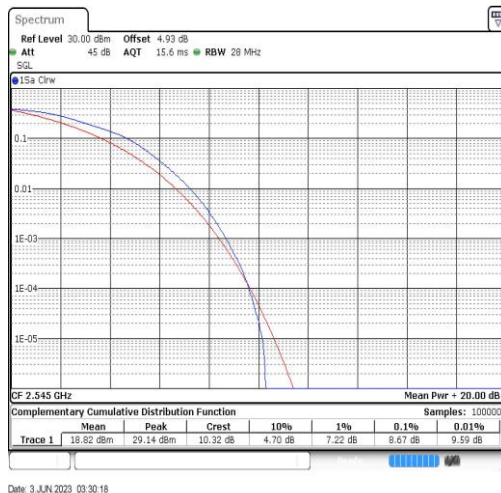
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Date: 3.JUN.2023 03:31:34

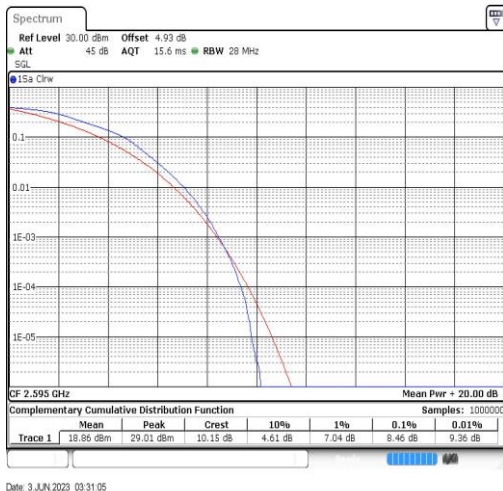
Band41-20MHz-QPSK-41140-100RB#0



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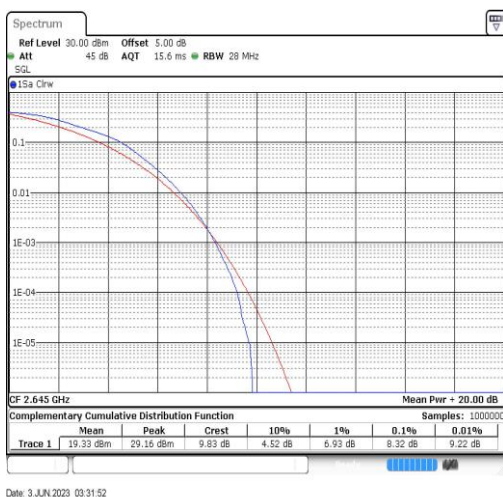
Band41-20MHz-16QAM-40140-100RB#0





Date: 3.JUN.2023 03:31:05

Band41-20MHz-16QAM-40640-100RB#0



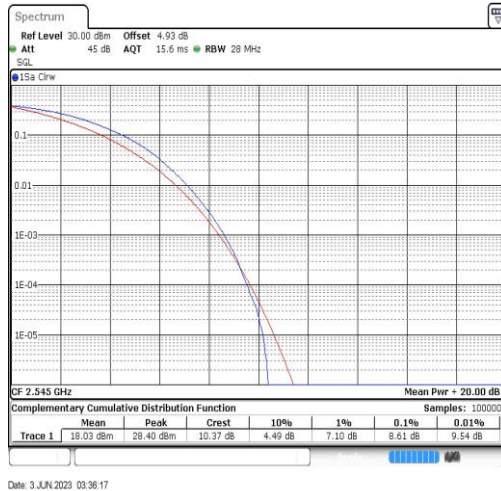
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Band41-20MHz-16QAM-41140-100RB#0



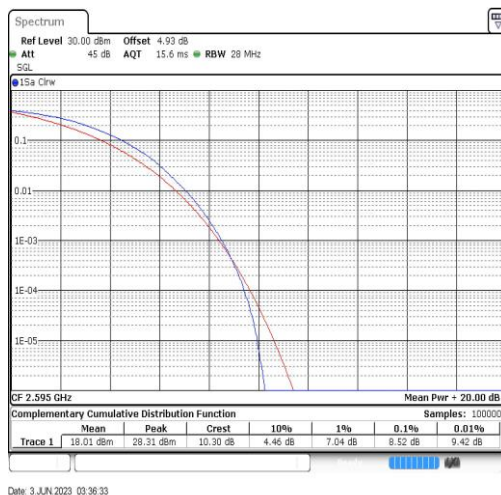
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Date: 3 JUN 2023 03:36:17

Band41-20MHz-64QAM-40140-100RB#0



Date: 3 JUN 2023 03:36:33

Band41-20MHz-64QAM-40640-100RB#0

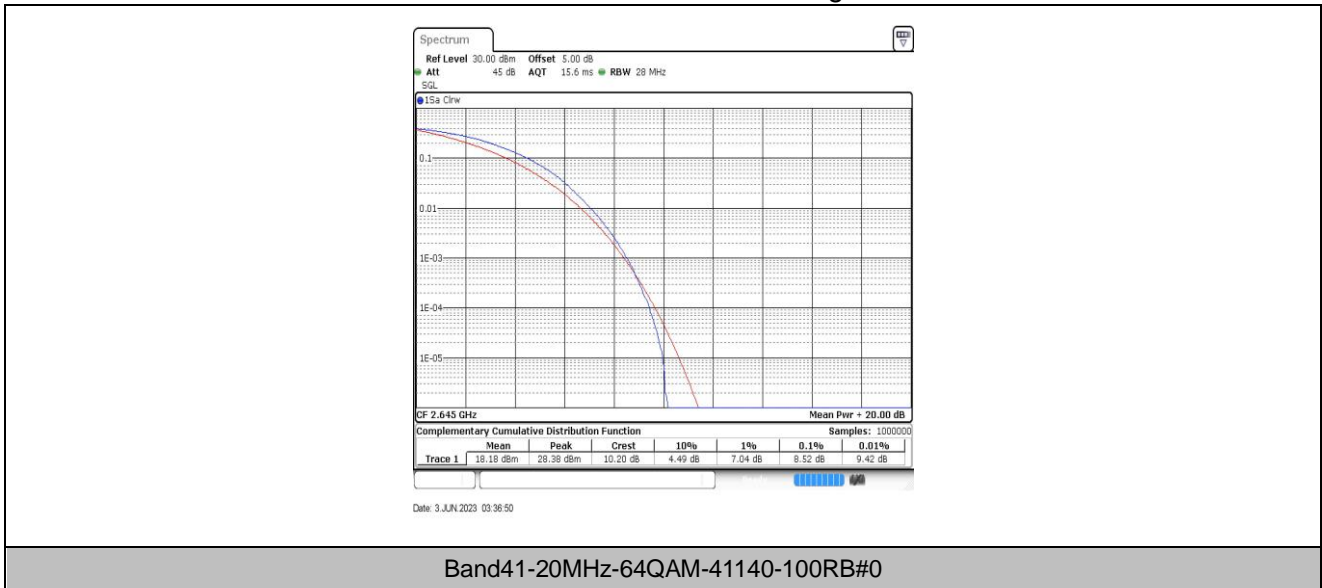


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Band41-20MHz-64QAM-41140-100RB#0



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Modulation Characteristics

Test Result

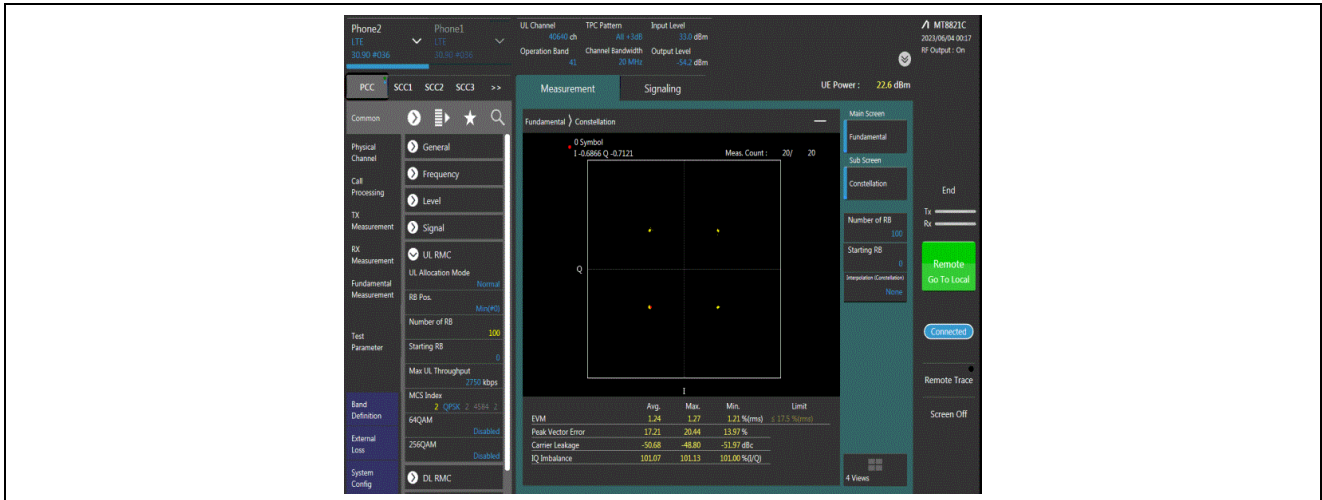
Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band41	20MHz	QPSK	40620	100RB#0	PASS	PASS
Band41	20MHz	16QAM	40620	100RB#0	PASS	PASS
Band41	20MHz	64QAM	40620	100RB#0	PASS	PASS



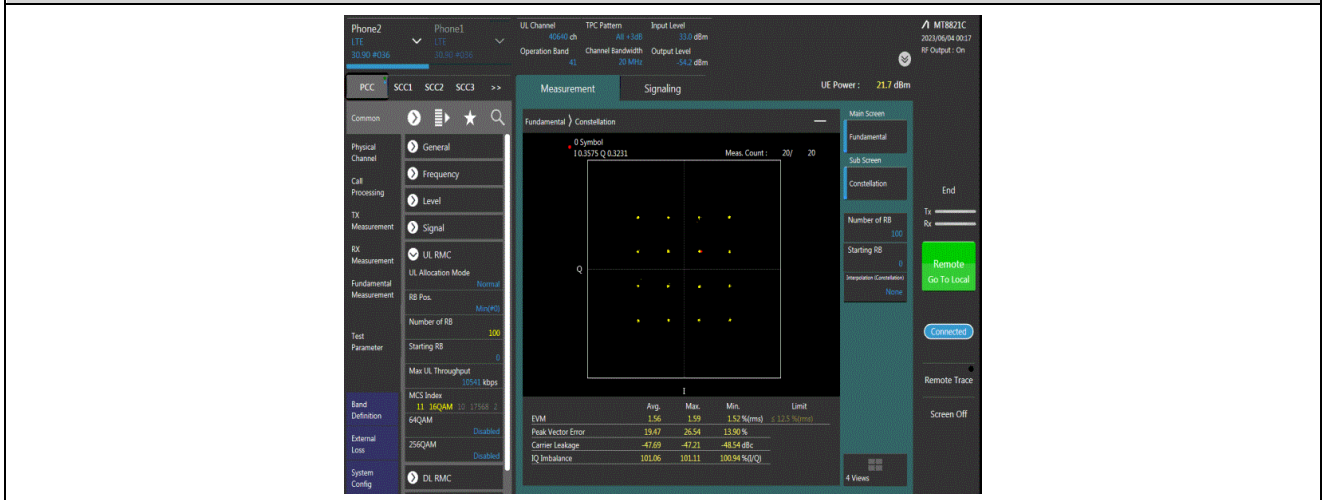
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Test Graphs



Band41-20MHz-QPSK-40620-100RB#0



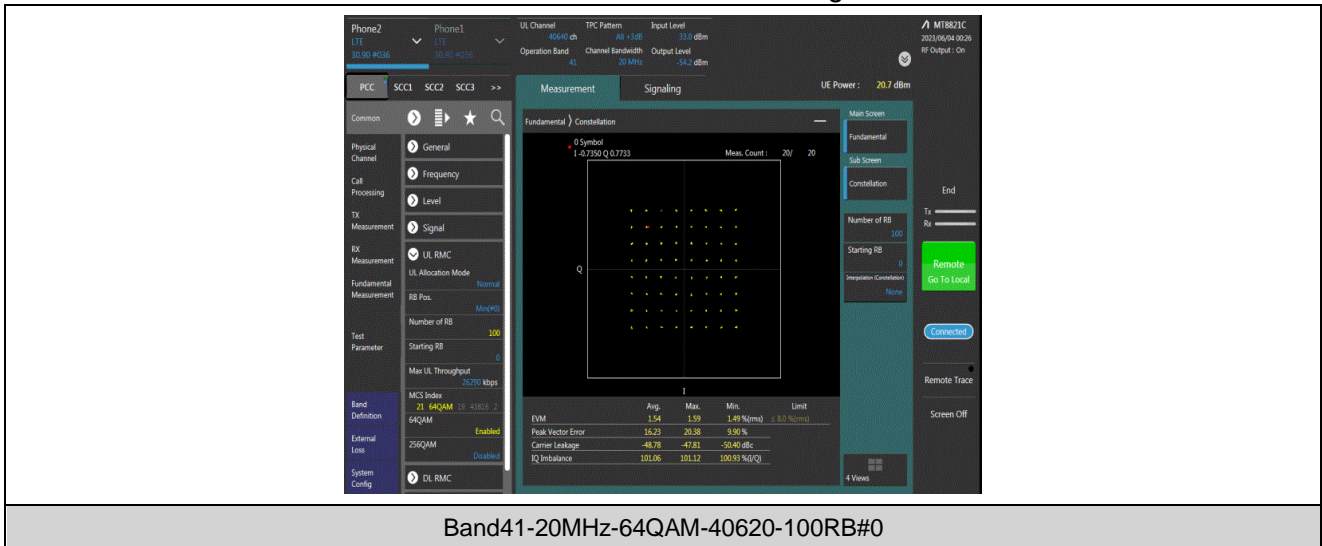
Band41-20MHz-16QAM-40620-100RB#0



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Band41-20MHz-64QAM-40620-100RB#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
Band41	5MHz	QPSK	40065	25RB#0	4.476	4.84	PASS
Band41	5MHz	QPSK	40640	25RB#0	4.476	4.84	PASS
Band41	5MHz	QPSK	41215	25RB#0	4.476	4.84	PASS
Band41	5MHz	16QAM	40065	25RB#0	4.476	4.99	PASS
Band41	5MHz	16QAM	40640	25RB#0	4.466	4.95	PASS
Band41	5MHz	16QAM	41215	25RB#0	4.466	4.99	PASS
Band41	5MHz	64QAM	40065	25RB#0	4.476	4.83	PASS
Band41	5MHz	64QAM	40640	25RB#0	4.476	4.82	PASS
Band41	5MHz	64QAM	41215	25RB#0	4.476	4.82	PASS
Band41	10MHz	QPSK	40090	50RB#0	8.931	9.64	PASS
Band41	10MHz	QPSK	40640	50RB#0	8.931	9.68	PASS
Band41	10MHz	QPSK	41190	50RB#0	8.931	9.60	PASS
Band41	10MHz	16QAM	40090	50RB#0	8.931	9.86	PASS
Band41	10MHz	16QAM	40640	50RB#0	8.931	9.86	PASS
Band41	10MHz	16QAM	41190	50RB#0	8.911	9.84	PASS
Band41	10MHz	64QAM	40090	50RB#0	8.931	9.72	PASS
Band41	10MHz	64QAM	40640	50RB#0	8.951	9.92	PASS
Band41	10MHz	64QAM	41190	50RB#0	8.951	9.72	PASS
Band41	15MHz	QPSK	40115	75RB#0	13.516	15.63	PASS
Band41	15MHz	QPSK	40640	75RB#0	13.546	16.17	PASS
Band41	15MHz	QPSK	41165	75RB#0	13.546	16.56	PASS
Band41	15MHz	16QAM	40115	75RB#0	13.516	16.62	PASS
Band41	15MHz	16QAM	40640	75RB#0	13.516	16.32	PASS
Band41	15MHz	16QAM	41165	75RB#0	13.516	16.35	PASS
Band41	15MHz	64QAM	40115	75RB#0	13.487	16.08	PASS
Band41	15MHz	64QAM	40640	75RB#0	13.487	16.23	PASS
Band41	15MHz	64QAM	41165	75RB#0	13.487	16.47	PASS
Band41	20MHz	QPSK	40140	100RB#0	17.982	20.72	PASS
Band41	20MHz	QPSK	40640	100RB#0	17.982	21.28	PASS
Band41	20MHz	QPSK	41140	100RB#0	17.942	21.20	PASS



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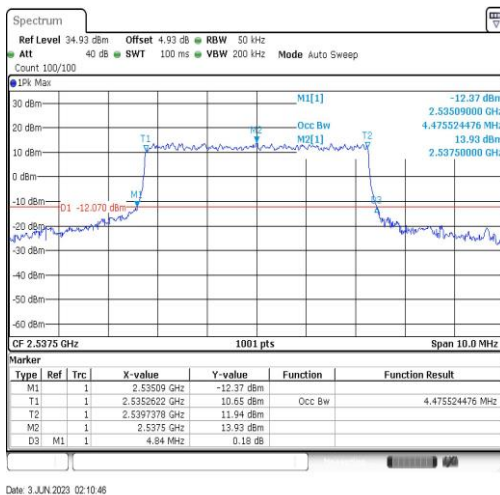
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Band41	20MHz	16QAM	40640	100RB#0	17.942	20.48	PASS
Band41	20MHz	16QAM	41140	100RB#0	17.942	19.80	PASS
Band41	20MHz	64QAM	40140	100RB#0	17.902	20.52	PASS
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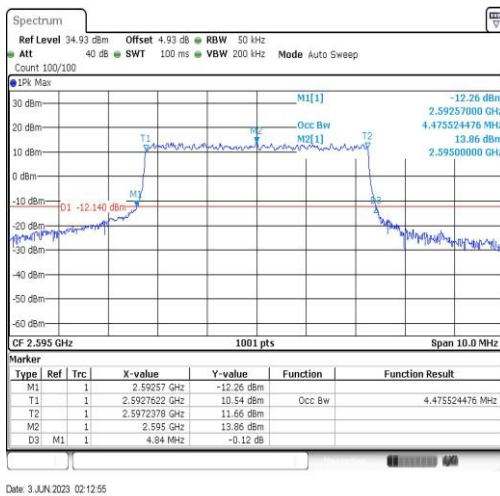
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Test Graphs



Band41-5MHz-QPSK-40065-25RB#0-4.476



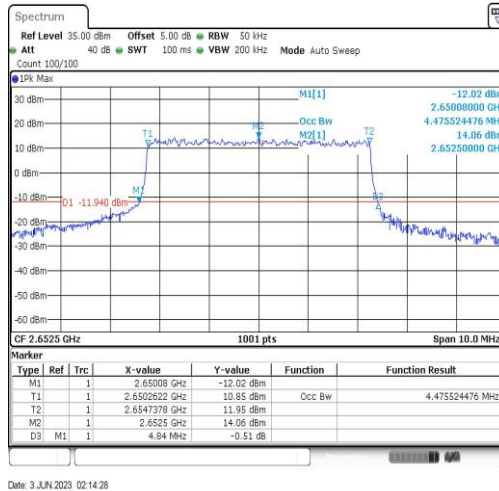
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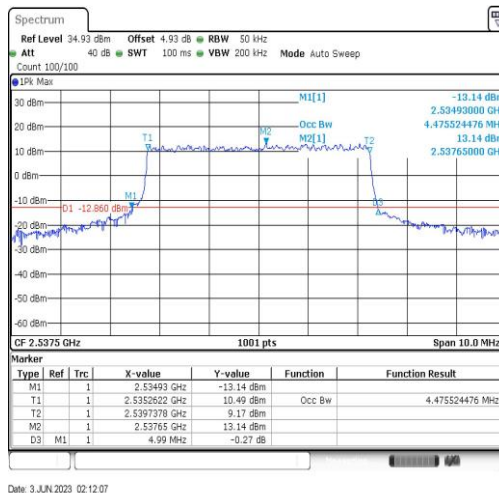
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Band41-5MHz-QPSK-41215-25RB#0-4.476

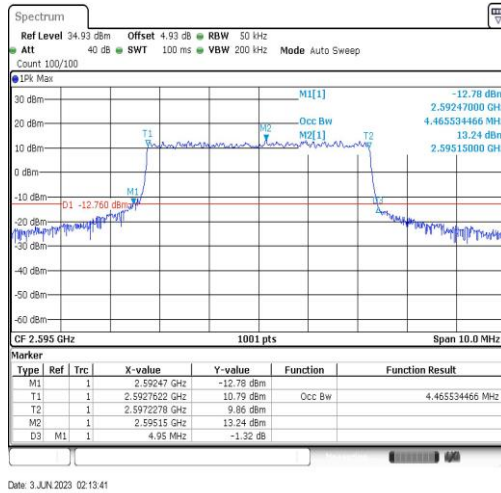


Band41-5MHz-16QAM-40065-25RB#0-4.476



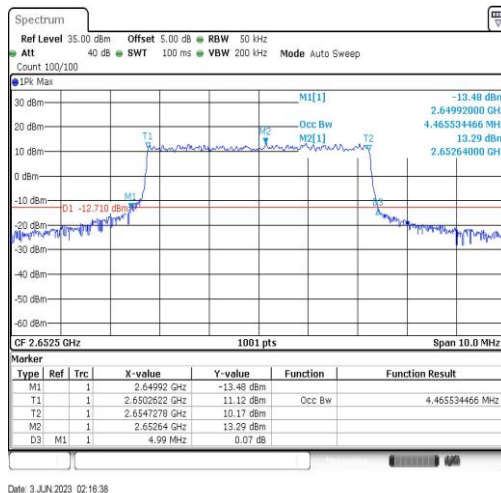
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Date: 3.JUN.2023 02:13:41

Band41-5MHz-16QAM-40640-25RB#0-4.466



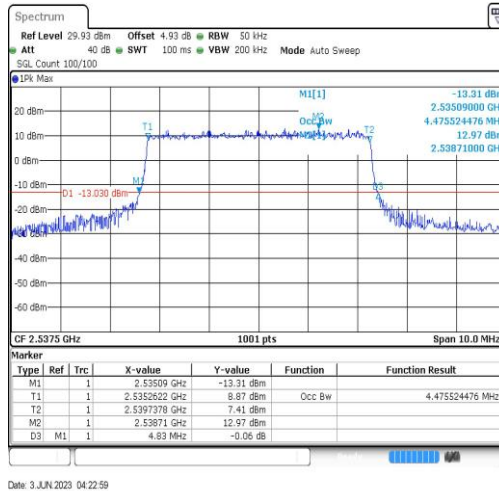
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Band41-5MHz-16QAM-41215-25RB#0-4.466



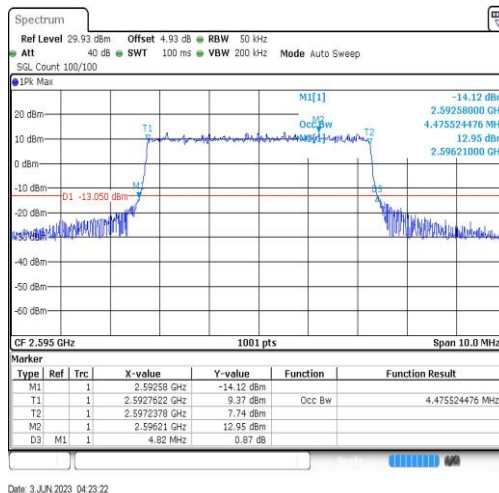
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Date: 3 JUN 2023 04:22:59

Band41-5MHz-64QAM-40065-25RB#0-4.476



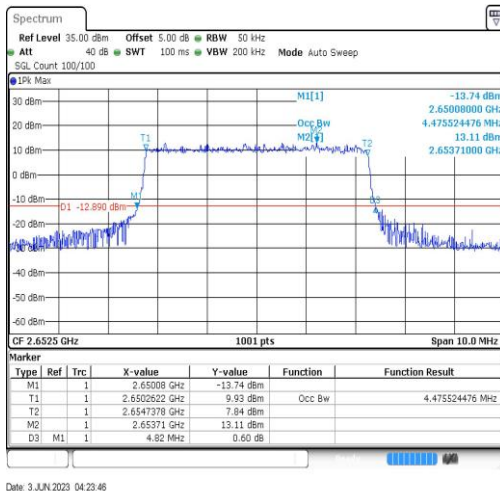
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Band41-5MHz-64QAM-40640-25RB#0-4.476



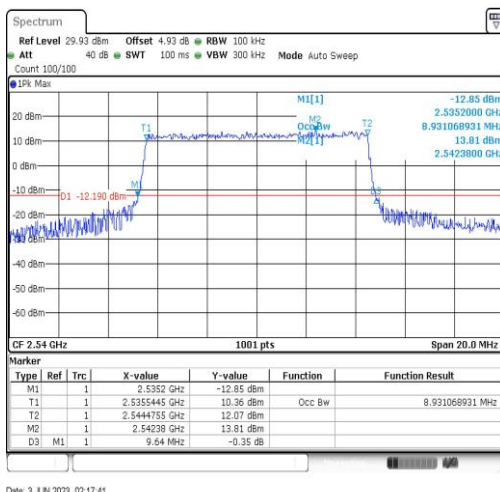
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Band41-5MHz-64QAM-41215-25RB#0-4.476



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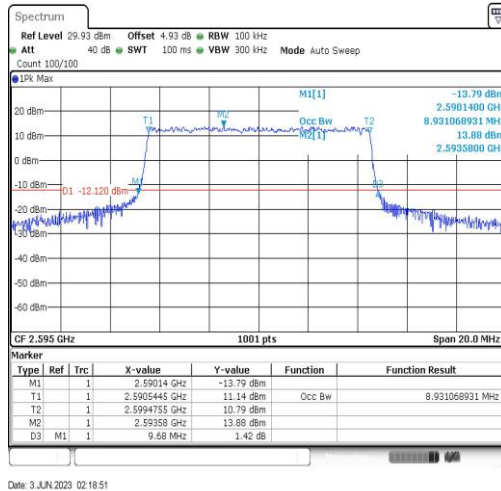
Band41-10MHz-QPSK-40090-50RB#0-8.931



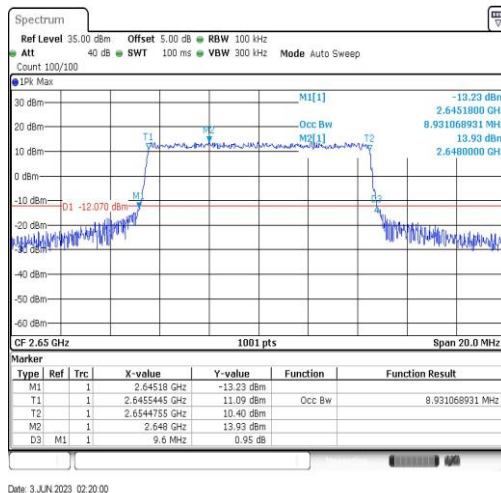
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Band41-10MHz-QPSK-40640-50RB#0-8.931

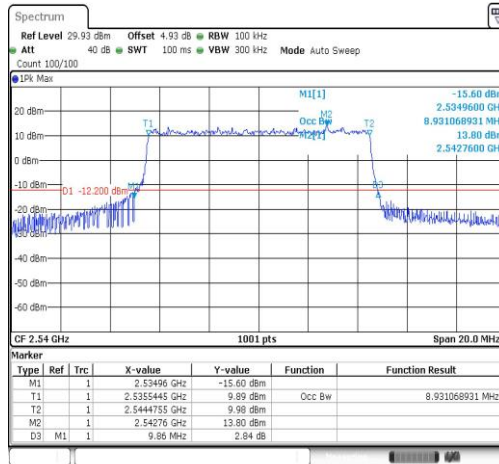


Band41-10MHz-QPSK-41190-50RB#0-8.931



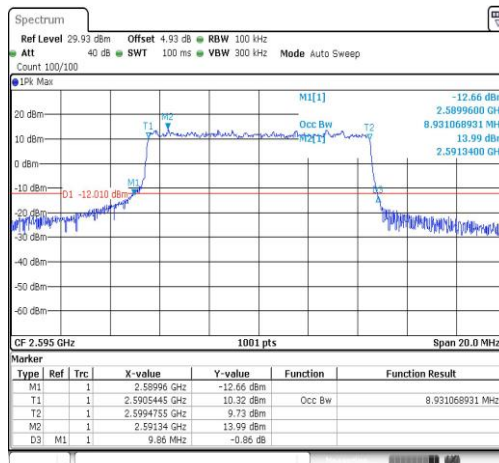
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Date: 3.JUN.2023 02:18:14

Band41-10MHz-16QAM-40090-50RB#0-8.931



Date: 3.JUN.2023 02:19:33

Band41-10MHz-16QAM-40640-50RB#0-8.931

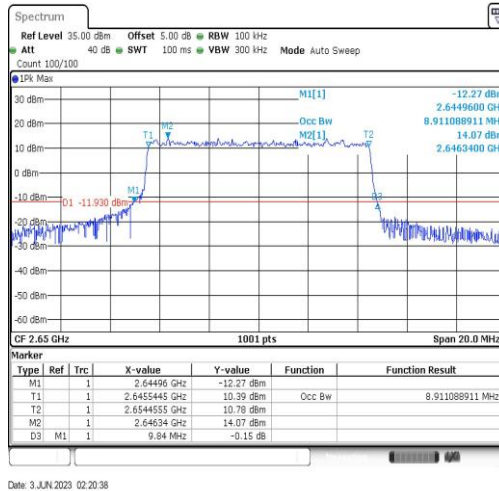


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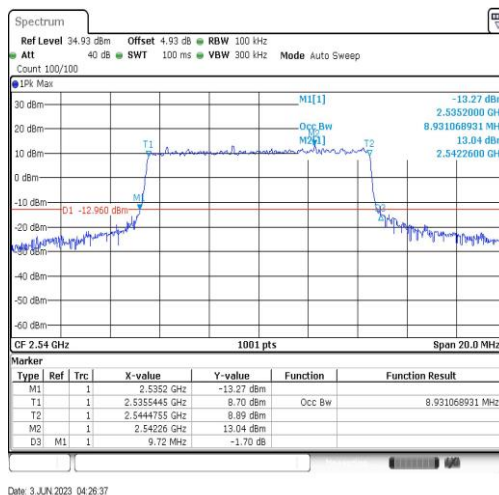
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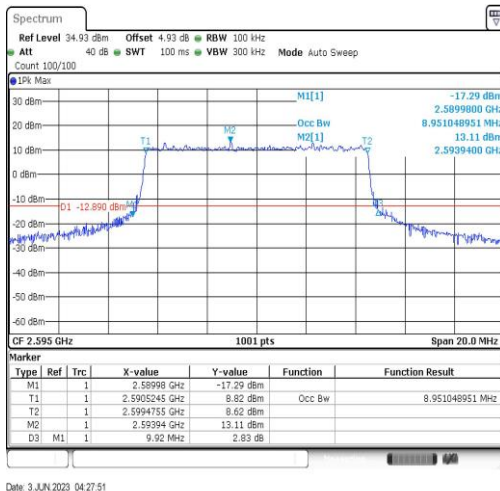
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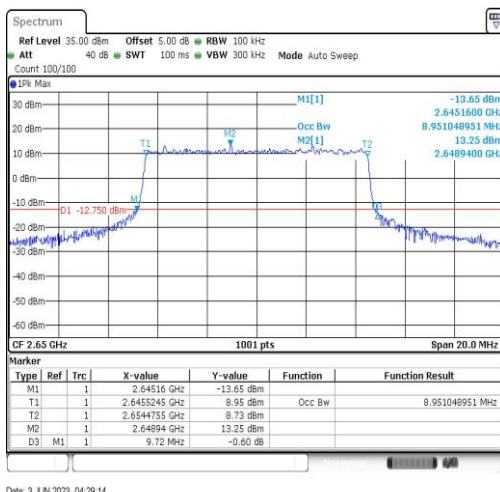
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Band41-10MHz-64QAM-40640-50RB#0-8.951



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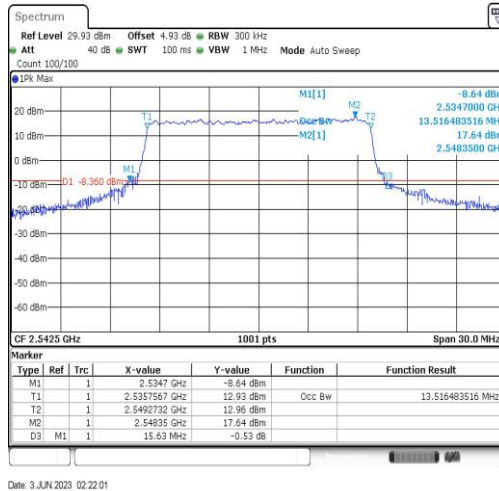
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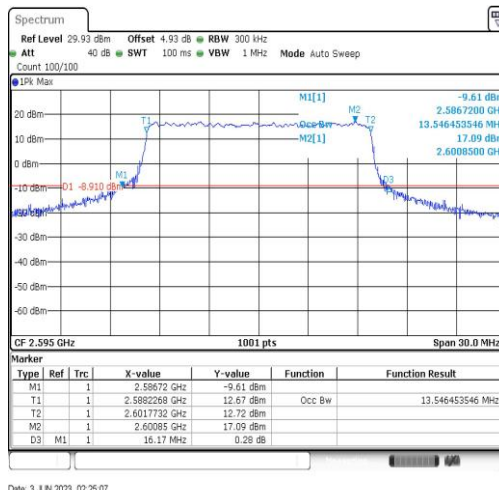
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Date: 3.JUN.2023 02:22:01

Band41-15MHz-QPSK-40115-75RB#0-13.516



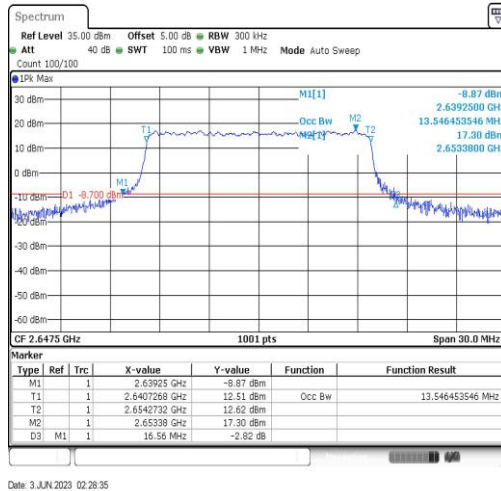
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Band41-15MHz-QPSK-40640-75RB#0-13.546

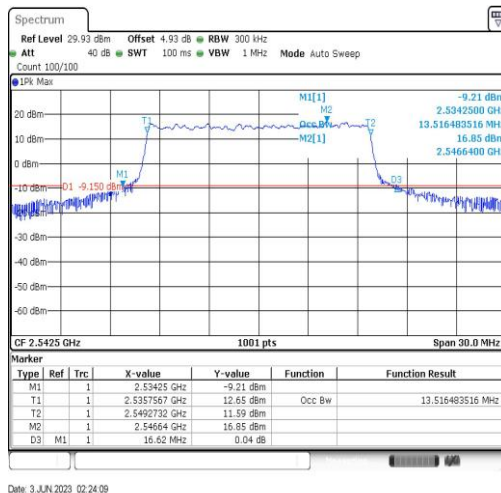


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Band41-15MHz-QPSK-41165-75RB#0-13.546

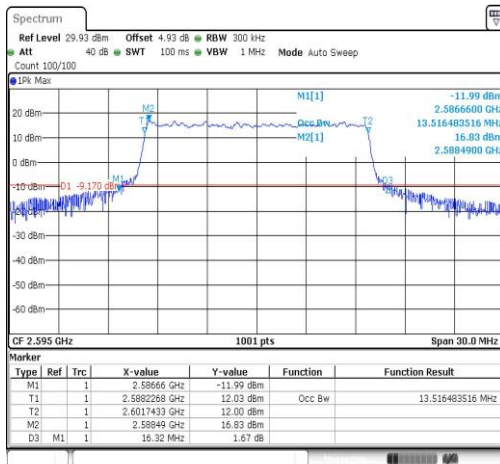


Band41-15MHz-16QAM-40115-75RB#0-13.516

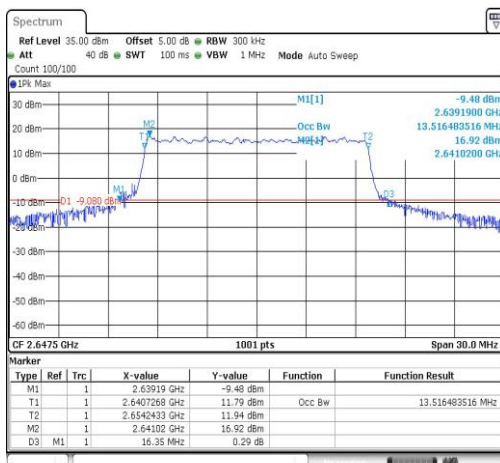


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Band41-15MHz-16QAM-40640-75RB#0-13.516



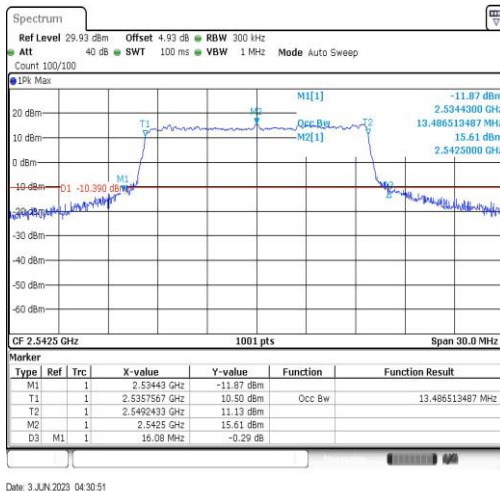
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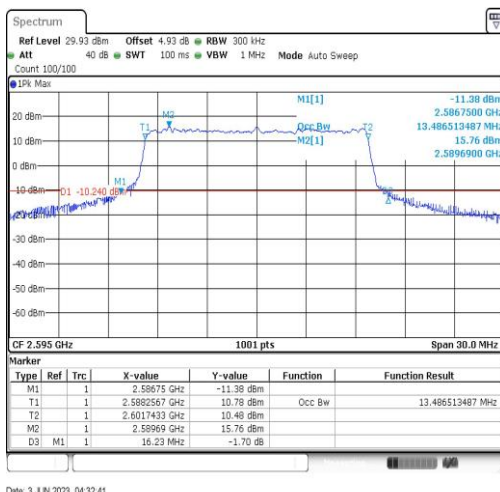
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Band41-15MHz-64QAM-40115-75RB#0-13.487



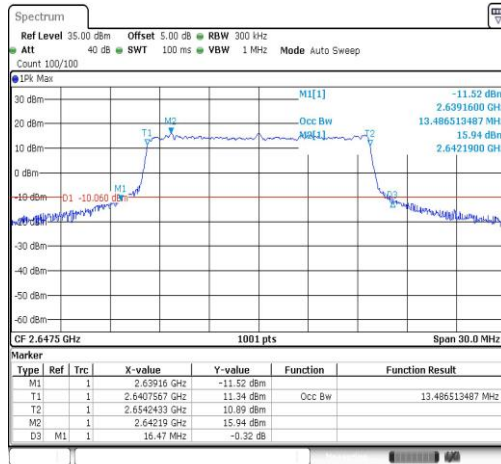
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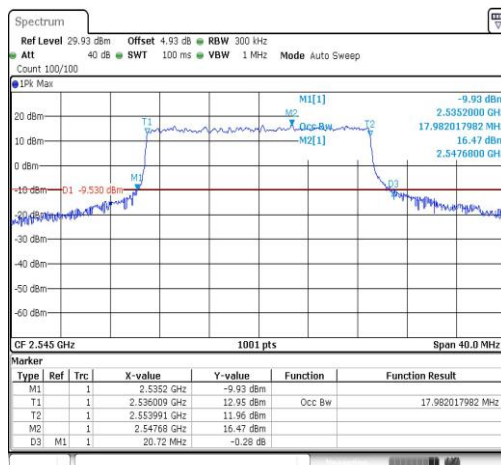
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Date: 3.JUN.2023 04:36:46

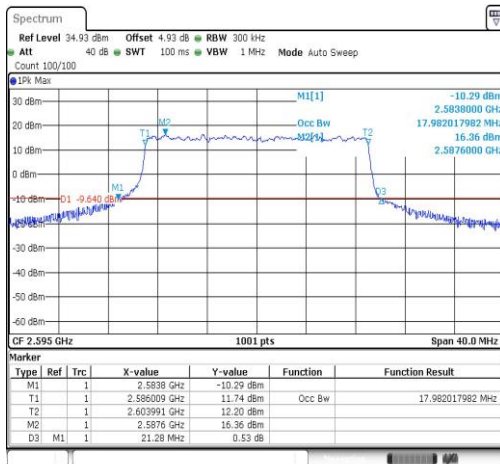
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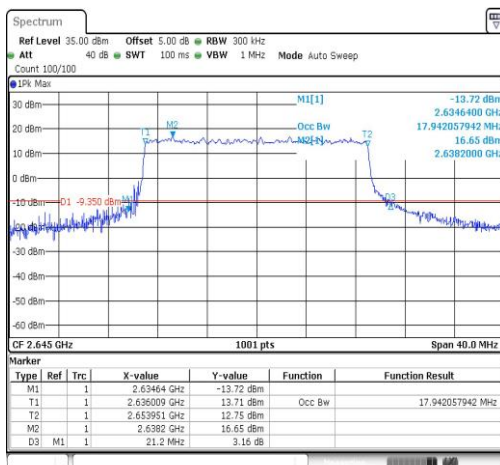
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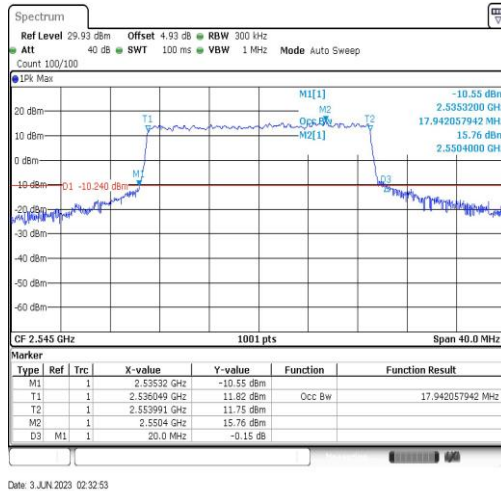
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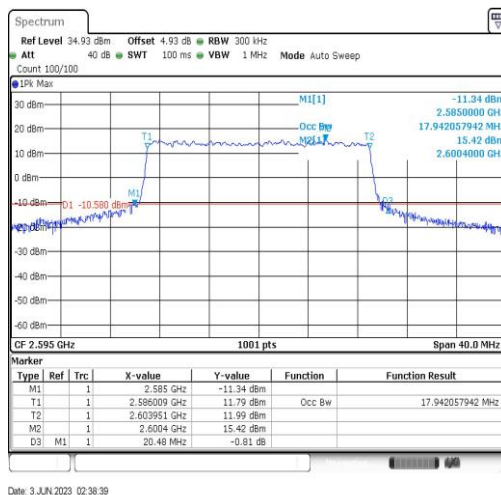
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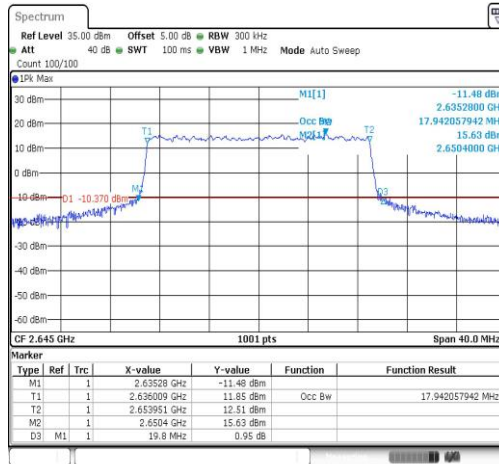
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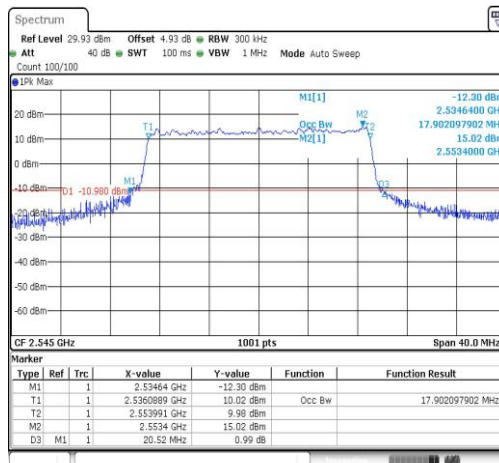
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Band41-20MHz-16QAM-41140-100RB#0-17.942



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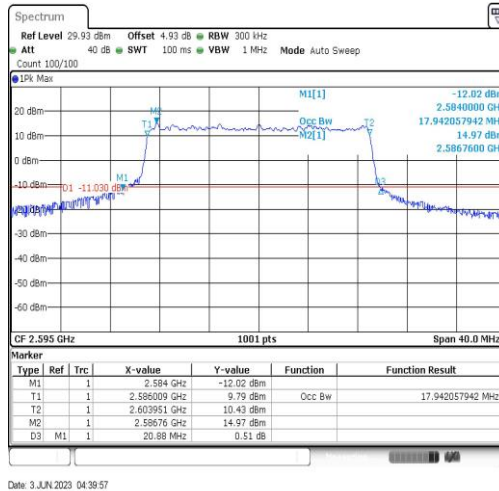
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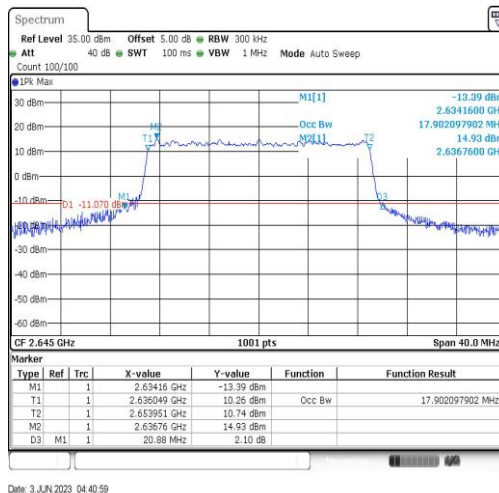
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Band41-20MHz-64QAM-40640-100RB#0-17.942



Band41-20MHz-64QAM-41140-100RB#0-17.902

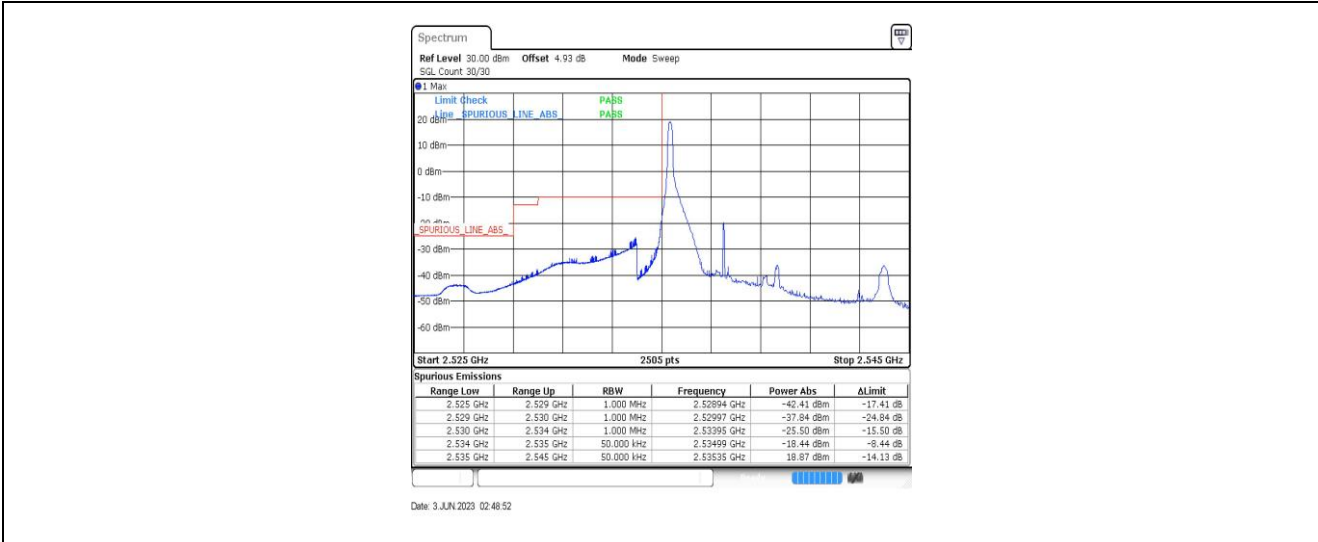


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Band Edge

Test Graphs



Band41-5MHz-QPSK-40065-1RB#0



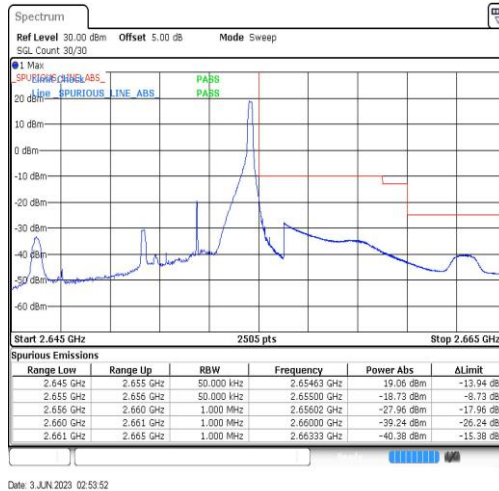
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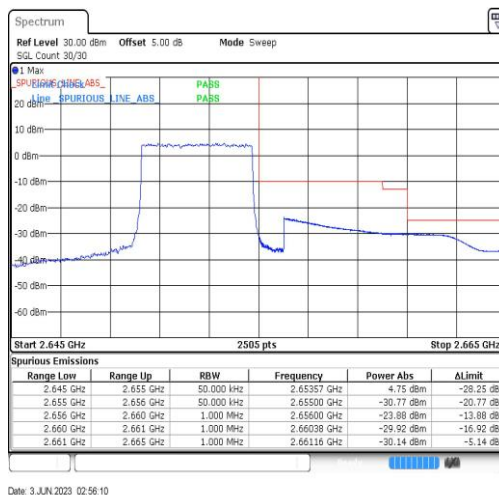
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Band41-5MHz-QPSK-41215-1RB#24

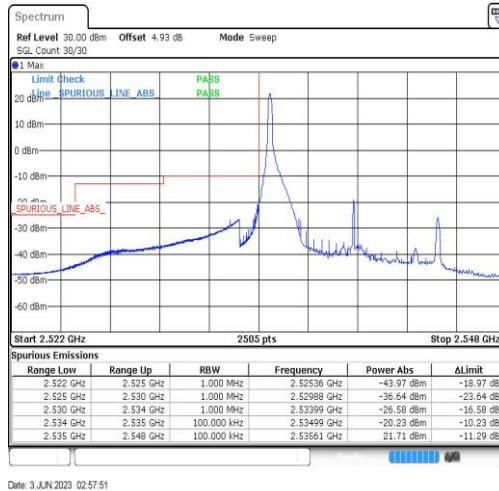


Band41-5MHz-QPSK-41215-25RB#0



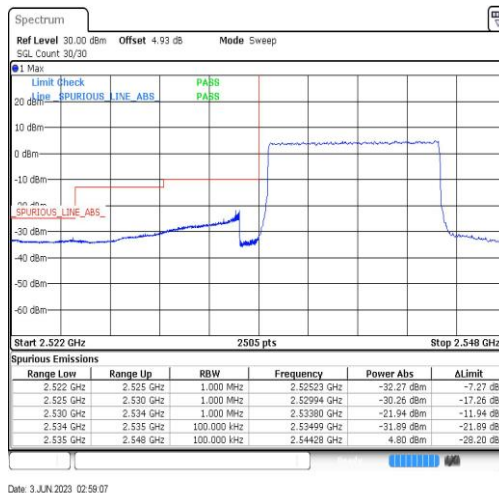
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Date: 3 JUN 2023 02:57:51

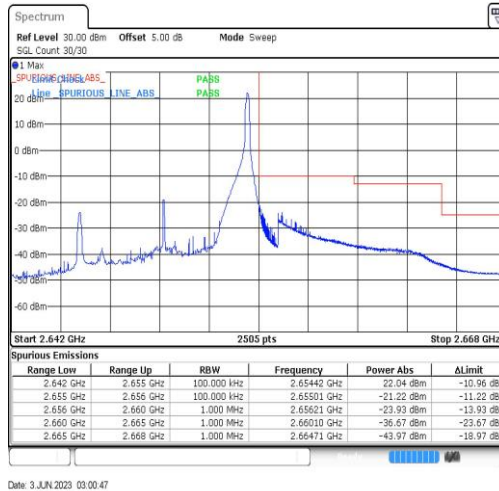
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Band41-10MHz-QPSK-40090-50RB#0





Band41-10MHz-QPSK-41190-1RB#49

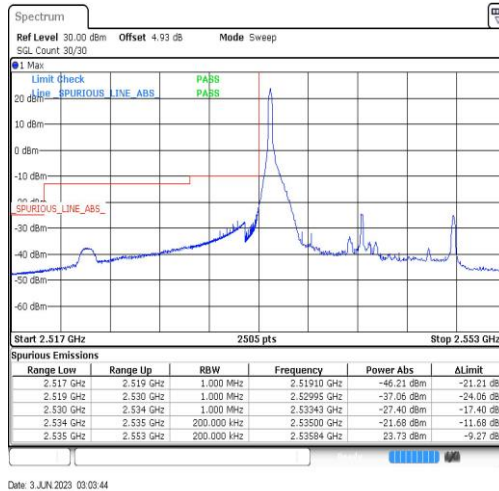


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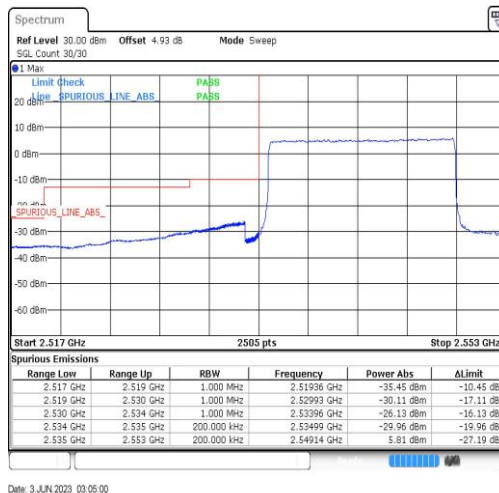
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Date: 3 JUN 2023 03:03:44

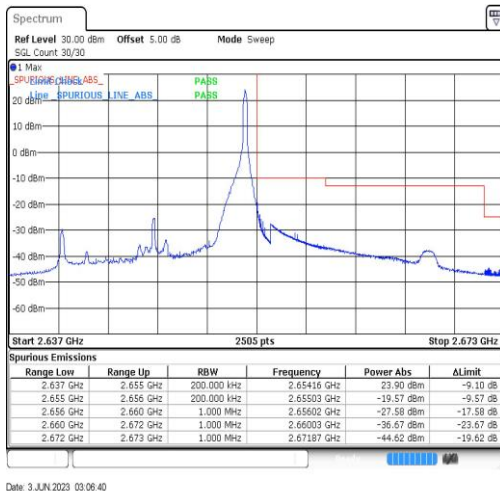
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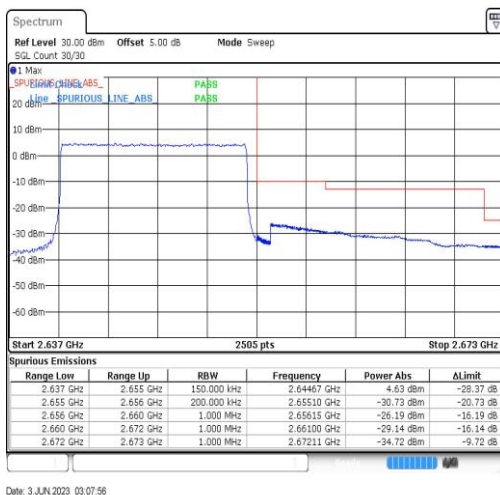
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Band41-15MHz-QPSK-40115-75RB#0





Band41-15MHz-QPSK-41165-1RB#74

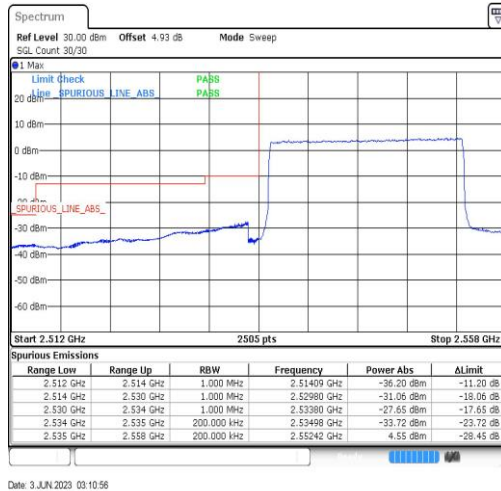


Band41-15MHz-QPSK-41165-75RB#0



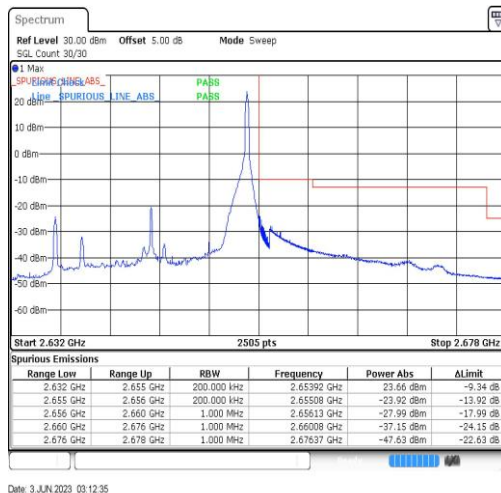
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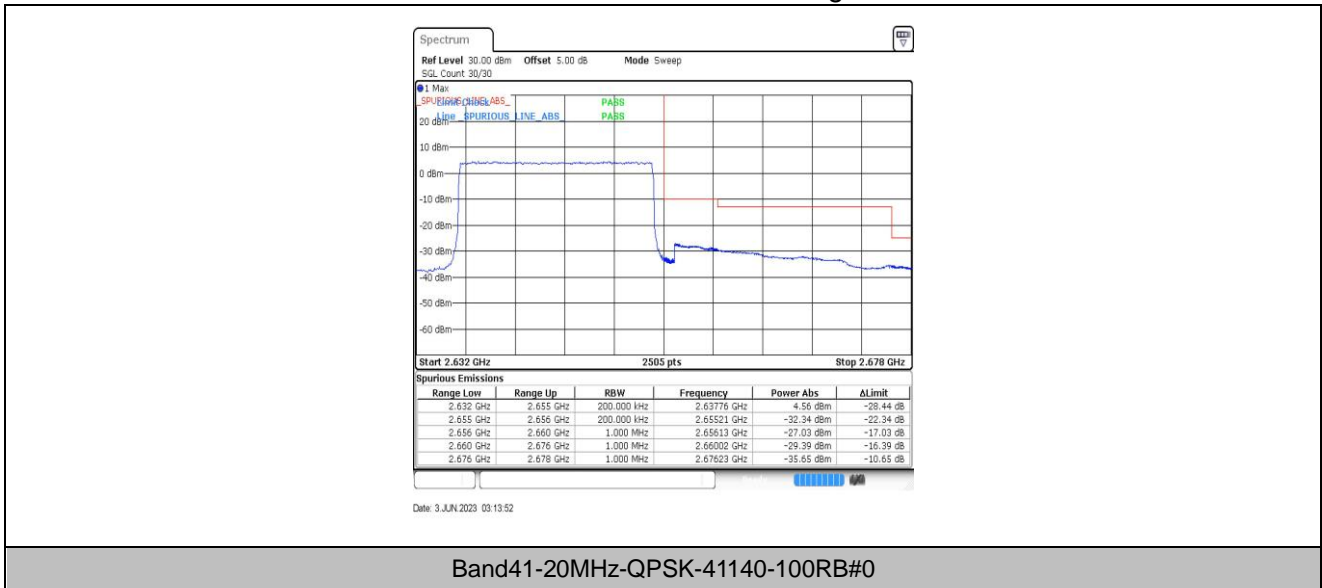
Band41-20MHz-QPSK-40140-100RB#0



Date: 3 JUN 2023 03:12:35

Band41-20MHz-QPSK-41140-1RB#99





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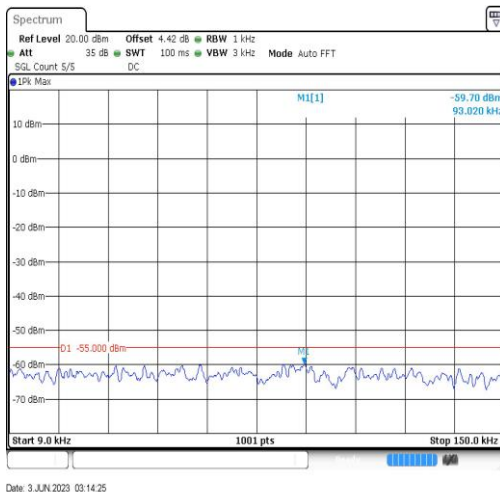


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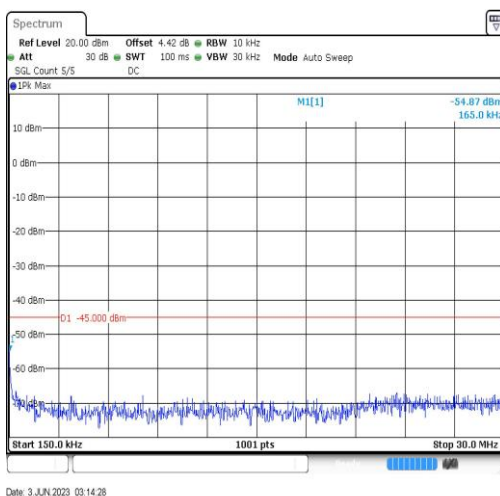
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Conducted Spurious Emission

Test Graphs



Band41-20MHz-QPSK-40140-1RB#0-Range1:0.009~0.15MHz



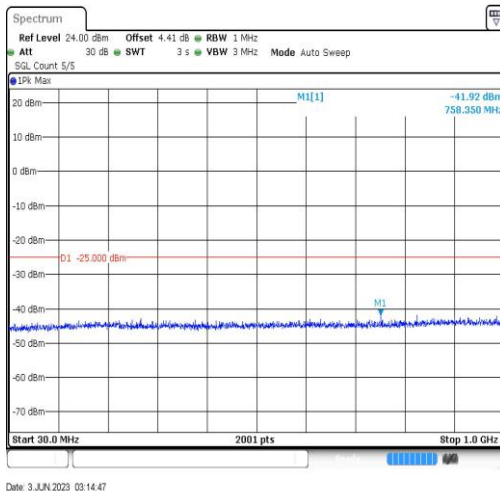
Band41-20MHz-QPSK-40140-1RB#0-Range2:0.15~30MHz



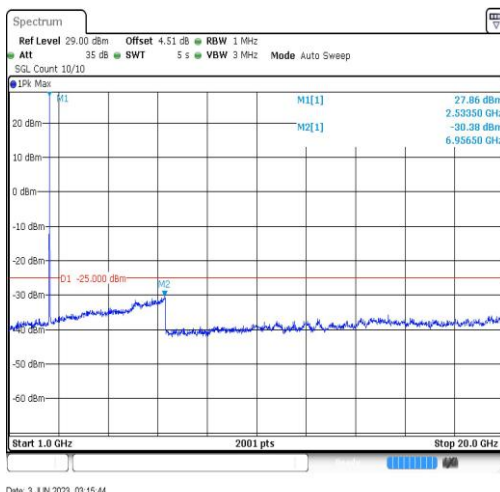
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Band41-20MHz-QPSK-40140-1RB#0-Range3:30~1000MHz



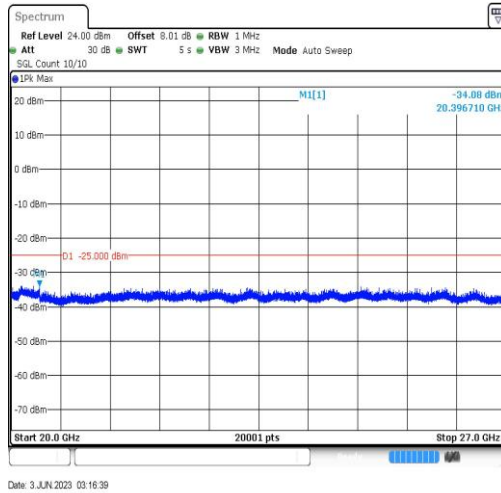
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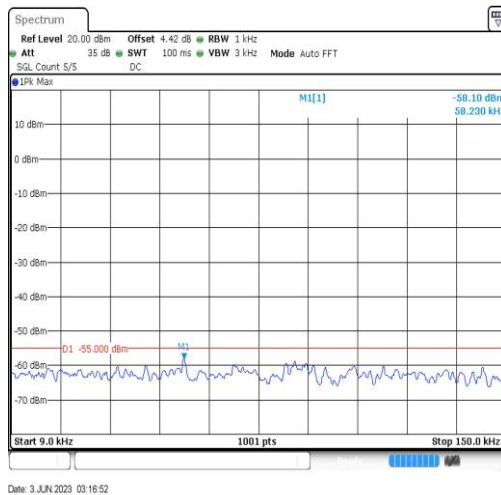
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Band41-20MHz-QPSK-40140-1RB#0-Range5:20000~27000MHz



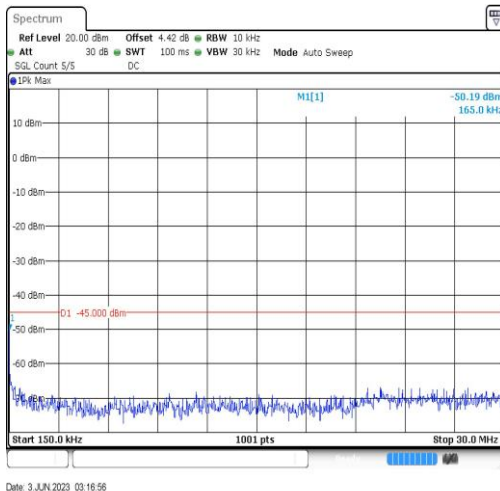
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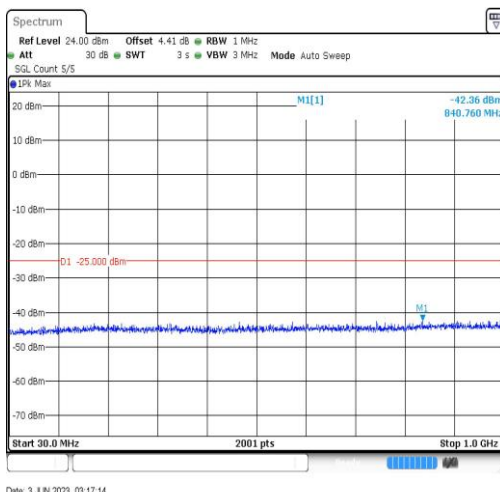
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Band41-20MHz-QPSK-40640-1RB#0-Range2:0.15~30MHz



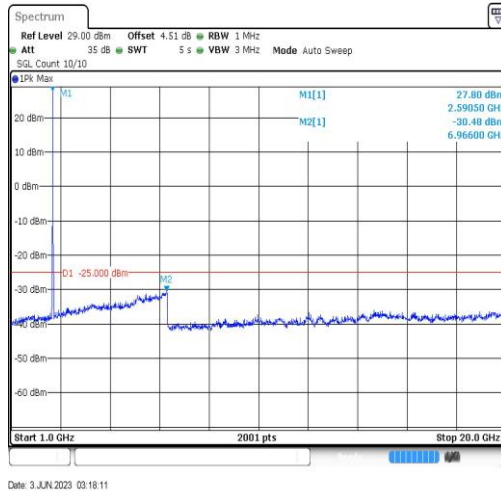
Band41-20MHz-QPSK-40640-1RB#0-Range3:30~1000MHz



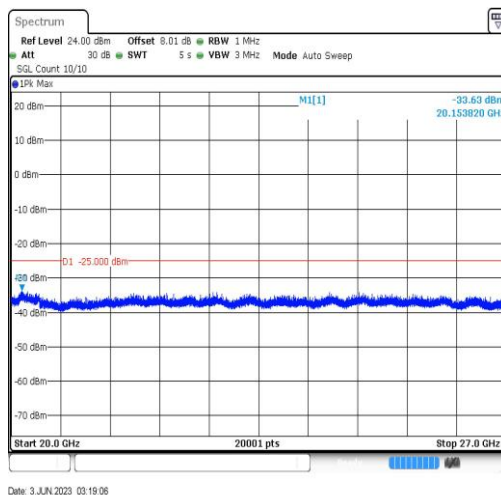
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Band41-20MHz-QPSK-40640-1RB#0-Range4:1000~20000MHz



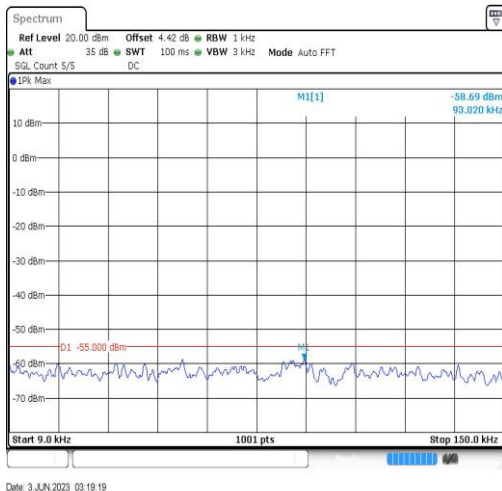
Band41-20MHz-QPSK-40640-1RB#0-Range5:20000~27000MHz



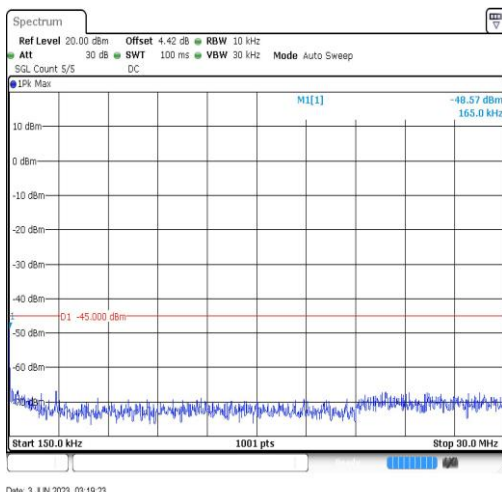
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Band41-20MHz-QPSK-41140-1RB#0-Range1:0.009~0.15MHz



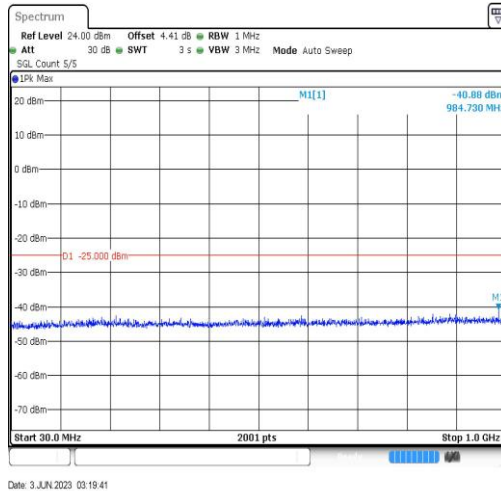
Band41-20MHz-QPSK-41140-1RB#0-Range2:0.15~30MHz



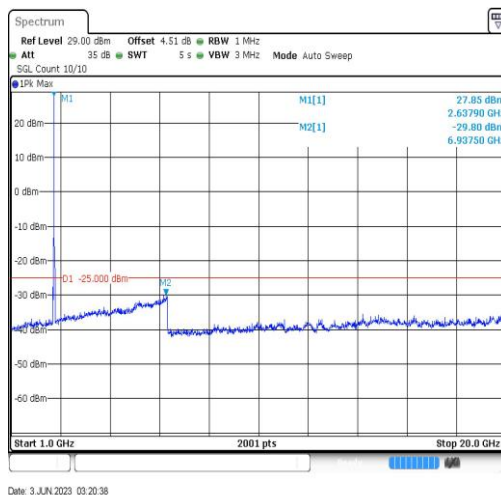
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Band41-20MHz-QPSK-41140-1RB#0-Range3:30~1000MHz



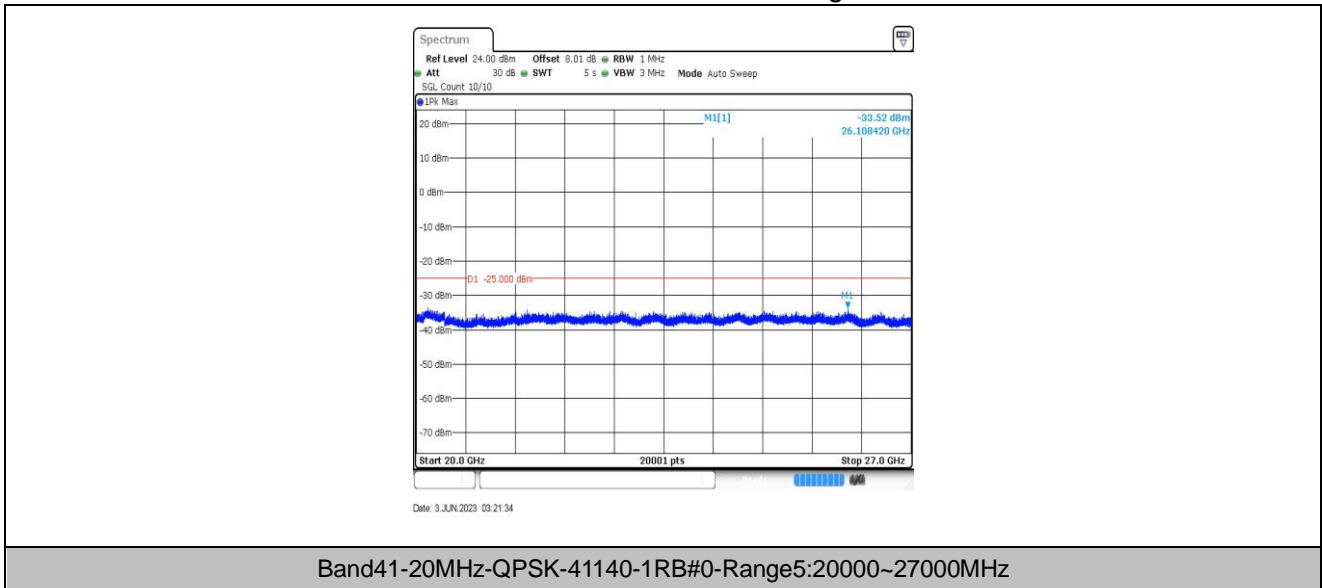
Band41-20MHz-QPSK-41140-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_41_ANT 31_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	1191.1323	35.34	-19.30	25.65	-53.57	-25.00	28.57	156	0	Horizontal
2	1882.098	35.87	-18.74	25.86	-52.27	-25.00	27.27	201	94	Horizontal
3	3654.6262	52.18	-49.22	30.39	-61.91	-25.00	36.91	396	301	Horizontal
4	6506.5403	48.67	-44.18	35.11	-55.66	-25.00	30.66	271	39	Horizontal
5	11129.1252	46.72	-39.41	39.49	-48.46	-25.00	23.46	293	116	Horizontal
6	16293.5317	45.30	-39.98	38.39	-51.55	-25.00	26.55	253	268	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	1145.3495	34.93	-19.16	25.89	-53.60	-25.00	28.60	336	117	Vertical
2	1818.3131	36.10	-19.04	25.74	-52.46	-25.00	27.46	203	35	Vertical
3	3994.2398	51.32	-49.06	31.08	-61.92	-25.00	36.92	254	67	Vertical
4	6772.9509	48.38	-44.47	36.25	-55.10	-25.00	30.10	280	175	Vertical
5	11217.9287	46.30	-39.35	39.68	-48.63	-25.00	23.63	326	83	Vertical
6	16853.9542	45.70	-40.93	38.75	-51.74	-25.00	26.74	239	67	Vertical



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Test Band = LTE_41_ANT 31_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	1174.2416	35.55	-19.22	25.75	-53.18	-25.00	28.18	145	261	Horizontal
2	1936.5485	36.40	-18.59	26.05	-51.40	-25.00	26.40	218	140	Horizontal
3	3978.0391	51.44	-49.08	31.01	-61.89	-25.00	36.89	392	137	Horizontal
4	6513.7406	48.40	-44.35	35.13	-56.08	-25.00	31.08	205	275	Horizontal
5	10632.3053	46.67	-40.24	39.36	-49.47	-25.00	24.47	324	89	Horizontal
6	15911.9165	45.22	-39.40	38.46	-50.98	-25.00	25.98	168	45	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	1196.9108	35.32	-19.33	25.62	-53.65	-25.00	28.65	378	69	Vertical
2	1686.743	35.60	-18.79	25.83	-52.62	-25.00	27.62	209	322	Vertical
3	4522.2609	51.19	-48.18	31.93	-60.32	-25.00	35.32	235	55	Vertical
4	7471.9789	48.88	-43.38	36.66	-53.10	-25.00	28.10	223	300	Vertical
5	11909.1564	45.53	-37.85	39.49	-48.09	-25.00	23.09	317	257	Vertical
6	15923.917	45.01	-39.49	38.43	-51.31	-25.00	26.31	280	252	Vertical



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Test Band = LTE_41_ANT 31_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	1175.1306	35.23	-19.23	25.75	-53.51	-25.00	28.51	128	74	Horizontal
2	1984.5538	36.66	-18.64	26.58	-50.66	-25.00	25.66	137	164	Horizontal
3	3498.6199	52.37	-49.07	29.79	-62.17	-25.00	37.17	324	306	Horizontal
4	5566.9027	50.51	-45.52	33.27	-57.00	-25.00	32.00	339	262	Horizontal
5	10599.304	46.52	-40.23	39.30	-49.67	-25.00	24.67	238	154	Horizontal
6	17800.192	46.84	-43.84	41.40	-50.86	-25.00	25.86	166	88	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	1153.3504	35.18	-19.13	25.88	-53.33	-25.00	28.33	129	84	Vertical
2	1680.2978	35.65	-18.83	25.84	-52.60	-25.00	27.60	123	281	Vertical
3	4135.8454	51.56	-48.70	30.99	-61.41	-25.00	36.41	338	203	Vertical
4	7473.1789	48.15	-43.37	36.65	-53.83	-25.00	28.83	241	126	Vertical
5	11817.3527	45.99	-38.74	39.83	-48.18	-25.00	23.18	352	360	Vertical
6	16859.3544	45.22	-40.91	38.76	-52.19	-25.00	27.19	238	28	Vertical



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Test Band = LTE_41_ANT 13_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	1516.5018	35.63	-18.95	25.70	-52.88	-25.00	27.88	172	23	Horizontal
2	4551.062	52.23	-48.29	32.10	-59.22	-25.00	34.22	105	113	Horizontal
3	6985.3594	48.92	-44.33	36.47	-54.20	-25.00	29.20	283	249	Horizontal
4	11228.7291	46.72	-39.39	39.67	-48.26	-25.00	23.26	343	23	Horizontal
5	14087.8435	44.91	-40.12	40.68	-49.79	-25.00	24.79	270	211	Horizontal
6	17997.5999	47.36	-44.13	42.79	-49.24	-25.00	24.24	162	276	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	1488.9432	35.87	-18.89	25.62	-52.66	-25.00	27.66	324	316	Vertical
2	4309.2524	51.64	-48.79	31.82	-60.59	-25.00	35.59	280	52	Vertical
3	6012.7205	49.54	-45.53	34.47	-56.78	-25.00	31.78	129	192	Vertical
4	8427.2171	48.11	-43.12	37.82	-52.45	-25.00	27.45	111	2	Vertical
5	12216.3687	45.50	-37.97	39.53	-48.20	-25.00	23.20	320	267	Vertical
6	17995.1998	47.32	-44.07	42.77	-49.24	-25.00	24.24	381	302	Vertical



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Test Band = LTE_41_ANT 13_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	1558.951	36.03	-19.24	25.88	-52.59	-25.00	27.59	188	82	Horizontal
2	3953.4381	51.64	-49.10	30.91	-61.81	-25.00	36.81	256	207	Horizontal
3	5172.6869	51.58	-46.75	33.01	-57.42	-25.00	32.42	301	265	Horizontal
4	7486.9795	48.77	-43.27	36.63	-53.13	-25.00	28.13	243	6	Horizontal
5	11789.7516	46.00	-38.73	39.86	-48.13	-25.00	23.13	226	161	Horizontal
6	17995.1998	46.96	-44.07	42.77	-49.60	-25.00	24.60	179	280	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	1623.4026	35.83	-19.18	25.85	-52.76	-25.00	27.76	365	98	Vertical
2	4492.2597	51.67	-48.09	31.82	-59.86	-25.00	34.86	251	66	Vertical
3	7006.9603	49.33	-44.37	36.47	-53.83	-25.00	28.83	207	39	Vertical
4	11128.5251	46.22	-39.41	39.49	-48.96	-25.00	23.96	228	336	Vertical
5	14071.6429	45.42	-39.96	40.64	-49.16	-25.00	24.16	135	229	Vertical
6	17992.1997	46.79	-44.00	42.75	-49.72	-25.00	24.72	367	98	Vertical



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Test Band = LTE_41_ANT 13_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	1680.7423	35.71	-18.83	25.84	-52.54	-25.00	27.54	284	151	Horizontal
2	3631.2252	52.80	-49.33	30.32	-61.47	-25.00	36.47	168	184	Horizontal
3	5268.6907	50.19	-46.55	33.33	-58.29	-25.00	33.29	168	157	Horizontal
4	7489.3796	49.44	-43.25	36.62	-52.45	-25.00	27.45	385	85	Horizontal
5	12184.5674	45.48	-38.01	39.45	-48.34	-25.00	23.34	275	285	Horizontal
6	17995.7998	47.24	-44.09	42.77	-49.34	-25.00	24.34	164	224	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	1496.2774	35.72	-18.84	25.61	-52.77	-25.00	27.77	352	240	Vertical
2	3900.036	52.19	-49.03	30.60	-61.50	-25.00	36.50	395	352	Vertical
3	5698.3079	50.05	-44.74	33.49	-56.46	-25.00	31.46	256	319	Vertical
4	8995.4398	47.62	-41.69	38.77	-50.56	-25.00	25.56	168	215	Vertical
5	13399.016	45.65	-38.98	40.30	-48.29	-25.00	23.29	105	32	Vertical
6	15926.9171	44.88	-39.51	38.42	-51.47	-25.00	26.47	254	194	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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40640	100RB#0	VN	NT	-8.10	-0.003121	PASS
Band41	20MHz	QPSK	40640	100RB#0	VL	NT	-10.30	-0.003969	PASS
Band41	20MHz	QPSK	40640	100RB#0	VH	NT	2.50	0.000963	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band41	20MHz	QPSK	40640	100RB#0	NV	-30	0.80	0.000308	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	-20	-12.80	-0.004933	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	-10	4.70	0.001811	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	0	-7.20	-0.002775	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	10	-12.50	-0.004817	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	20	-11.50	-0.004432	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	30	3.00	0.001156	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	40	5.20	0.002004	PASS
Band41	20MHz	QPSK	40640	100RB#0	NV	50	-1.30	-0.000501	PASS

---End of Attachment---



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