

Report No.: SEWA2303000029RG01

Rev.: 01

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Appendix B.15

LTE Band 42(3450-3550)



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t (86-512) 62992980 sgs.china@sgs.com

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band42	5MHz	QPSK	42115	1RB#0	21.81	17.52	30	PASS
Band42	5MHz	QPSK	42115	1RB#12	21.83	17.54	30	PASS
Band42	5MHz	QPSK	42115	1RB#24	21.87	17.58	30	PASS
Band42	5MHz	QPSK	42115	25RB#0	20.77	16.48	30	PASS
Band42	5MHz	QPSK	42590	1RB#0	15.57	11.28	30	PASS
Band42	5MHz	QPSK	42590	1RB#12	21.78	17.49	30	PASS
Band42	5MHz	QPSK	42590	1RB#24	21.79	17.5	30	PASS
Band42	5MHz	QPSK	42590	25RB#0	20.65	16.36	30	PASS
Band42	5MHz	QPSK	43065	1RB#0	17.49	13.2	30	PASS
Band42	5MHz	QPSK	43065	1RB#12	21.64	17.35	30	PASS
Band42	5MHz	QPSK	43065	1RB#24	21.71	17.42	30	PASS
Band42	5MHz	QPSK	43065	25RB#0	20.60	16.31	30	PASS
Band42	5MHz	16QAM	42115	1RB#0	20.87	16.58	30	PASS
Band42	5MHz	16QAM	42115	1RB#12	20.84	16.55	30	PASS
Band42	5MHz	16QAM	42115	1RB#24	20.96	16.67	30	PASS
Band42	5MHz	16QAM	42115	25RB#0	19.94	15.65	30	PASS
Band42	5MHz	16QAM	42590	1RB#0	20.82	16.53	30	PASS
Band42	5MHz	16QAM	42590	1RB#12	20.76	16.47	30	PASS
Band42	5MHz	16QAM	42590	1RB#24	20.84	16.55	30	PASS
Band42	5MHz	16QAM	42590	25RB#0	19.80	15.51	30	PASS
Band42	5MHz	16QAM	43065	1RB#0	20.76	16.47	30	PASS
Band42	5MHz	16QAM	43065	1RB#12	20.72	16.43	30	PASS
Band42	5MHz	16QAM	43065	1RB#24	20.77	16.48	30	PASS
Band42	5MHz	16QAM	43065	25RB#0	19.74	15.45	30	PASS
Band42	5MHz	64QAM	42115	1RB#0	19.65	15.36	30	PASS
Band42	5MHz	64QAM	42115	1RB#12	19.61	15.32	30	PASS
Band42	5MHz	64QAM	42115	1RB#24	19.64	15.35	30	PASS



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Band42	5MHz	64QAM	42115	25RB#0	18.96	14.67	30	PASS
Band42	5MHz	64QAM	42590	1RB#0	19.58	15.29	30	PASS
Band42	5MHz	64QAM	42590	1RB#12	19.61	15.32	30	PASS
Band42	5MHz	64QAM	42590	1RB#24	19.55	15.26	30	PASS
Band42	5MHz	64QAM	42590	25RB#0	18.81	14.52	30	PASS
Band42	5MHz	64QAM	43065	1RB#0	19.52	15.23	30	PASS
Band42	5MHz	64QAM	43065	1RB#12	19.50	15.21	30	PASS
Band42	5MHz	64QAM	43065	1RB#24	19.47	15.18	30	PASS
Band42	5MHz	64QAM	43065	25RB#0	18.75	14.46	30	PASS
Band42	5MHz	256QAM	42115	1RB#0	16.76	12.47	30	PASS
Band42	5MHz	256QAM	42115	1RB#12	16.75	12.46	30	PASS
Band42	5MHz	256QAM	42115	1RB#24	16.77	12.48	30	PASS
Band42	5MHz	256QAM	42115	25RB#0	16.95	12.66	30	PASS
Band42	5MHz	256QAM	42590	1RB#0	16.70	12.41	30	PASS
Band42	5MHz	256QAM	42590	1RB#12	16.69	12.4	30	PASS
Band42	5MHz	256QAM	42590	1RB#24	16.69	12.4	30	PASS
Band42	5MHz	256QAM	42590	25RB#0	16.82	12.53	30	PASS
Band42	5MHz	256QAM	43065	1RB#0	16.62	12.33	30	PASS
Band42	5MHz	256QAM	43065	1RB#12	16.61	12.32	30	PASS
Band42	5MHz	256QAM	43065	1RB#24	16.58	12.29	30	PASS
Band42	5MHz	256QAM	43065	25RB#0	16.77	12.48	30	PASS
Band42	10MHz	QPSK	42140	1RB#0	22.03	17.74	30	PASS
Band42	10MHz	QPSK	42140	1RB#24	21.81	17.52	30	PASS
Band42	10MHz	QPSK	42140	1RB#49	21.81	17.52	30	PASS
Band42	10MHz	QPSK	42140	50RB#0	20.76	16.47	30	PASS
Band42	10MHz	QPSK	42590	1RB#0	22.12	17.83	30	PASS
Band42	10MHz	QPSK	42590	1RB#24	21.71	17.42	30	PASS
Band42	10MHz	QPSK	42590	1RB#49	21.73	17.44	30	PASS
Band42	10MHz	QPSK	42590	50RB#0	20.7	16.41	30	PASS
Band42	10MHz	QPSK	43040	1RB#0	22.13	17.84	30	PASS
Band42	10MHz	QPSK	43040	1RB#24	21.66	17.37	30	PASS
Band42	10MHz	QPSK	43040	1RB#49	21.71	17.42	30	PASS



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Band42	10MHz	QPSK	43040	50RB#0	20.63	16.34	30	PASS
Band42	10MHz	16QAM	42140	1RB#0	21.09	16.8	30	PASS
Band42	10MHz	16QAM	42140	1RB#24	21.1	16.81	30	PASS
Band42	10MHz	16QAM	42140	1RB#49	21.06	16.77	30	PASS
Band42	10MHz	16QAM	42140	50RB#0	20.02	15.73	30	PASS
Band42	10MHz	16QAM	42590	1RB#0	20.95	16.66	30	PASS
Band42	10MHz	16QAM	42590	1RB#24	20.97	16.68	30	PASS
Band42	10MHz	16QAM	42590	1RB#49	21	16.71	30	PASS
Band42	10MHz	16QAM	42590	50RB#0	19.89	15.6	30	PASS
Band42	10MHz	16QAM	43040	1RB#0	21.04	16.75	30	PASS
Band42	10MHz	16QAM	43040	1RB#24	20.97	16.68	30	PASS
Band42	10MHz	16QAM	43040	1RB#49	20.96	16.67	30	PASS
Band42	10MHz	16QAM	43040	50RB#0	19.85	15.56	30	PASS
Band42	10MHz	64QAM	42140	1RB#0	19.94	15.65	30	PASS
Band42	10MHz	64QAM	42140	1RB#24	19.93	15.64	30	PASS
Band42	10MHz	64QAM	42140	1RB#49	19.91	15.62	30	PASS
Band42	10MHz	64QAM	42140	50RB#0	19.02	14.73	30	PASS
Band42	10MHz	64QAM	42590	1RB#0	19.83	15.54	30	PASS
Band42	10MHz	64QAM	42590	1RB#24	19.83	15.54	30	PASS
Band42	10MHz	64QAM	42590	1RB#49	19.84	15.55	30	PASS
Band42	10MHz	64QAM	42590	50RB#0	18.92	14.63	30	PASS
Band42	10MHz	64QAM	43040	1RB#0	19.79	15.5	30	PASS
Band42	10MHz	64QAM	43040	1RB#24	19.79	15.5	30	PASS
Band42	10MHz	64QAM	43040	1RB#49	19.79	15.5	30	PASS
Band42	10MHz	64QAM	43040	50RB#0	18.87	14.58	30	PASS
Band42	10MHz	256QAM	42140	1RB#0	16.92	12.63	30	PASS
Band42	10MHz	256QAM	42140	1RB#24	16.93	12.64	30	PASS
Band42	10MHz	256QAM	42140	1RB#49	16.85	12.56	30	PASS
Band42	10MHz	256QAM	42140	50RB#0	17.01	12.72	30	PASS
Band42	10MHz	256QAM	42590	1RB#0	16.78	12.49	30	PASS
Band42	10MHz	256QAM	42590	1RB#24	16.83	12.54	30	PASS
Band42	10MHz	256QAM	42590	1RB#49	16.81	12.52	30	PASS



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Band42	10MHz	256QAM	42590	50RB#0	16.91	12.62	30	PASS
Band42	10MHz	256QAM	43040	1RB#0	16.77	12.48	30	PASS
Band42	10MHz	256QAM	43040	1RB#24	16.79	12.5	30	PASS
Band42	10MHz	256QAM	43040	1RB#49	16.76	12.47	30	PASS
Band42	10MHz	256QAM	43040	50RB#0	16.84	12.55	30	PASS
Band42	15MHz	QPSK	42165	1RB#0	22.03	17.74	30	PASS
Band42	15MHz	QPSK	42165	1RB#38	21.63	17.34	30	PASS
Band42	15MHz	QPSK	42165	1RB#74	21.66	17.37	30	PASS
Band42	15MHz	QPSK	42165	75RB#0	20.7	16.41	30	PASS
Band42	15MHz	QPSK	42590	1RB#0	22.05	17.76	30	PASS
Band42	15MHz	QPSK	42590	1RB#38	21.66	17.37	30	PASS
Band42	15MHz	QPSK	42590	1RB#74	21.73	17.44	30	PASS
Band42	15MHz	QPSK	42590	75RB#0	20.68	16.39	30	PASS
Band42	15MHz	QPSK	43015	1RB#0	22.11	17.82	30	PASS
Band42	15MHz	QPSK	43015	1RB#38	21.68	17.39	30	PASS
Band42	15MHz	QPSK	43015	1RB#74	21.77	17.48	30	PASS
Band42	15MHz	QPSK	43015	75RB#0	20.69	16.4	30	PASS
Band42	15MHz	16QAM	42165	1RB#0	20.89	16.6	30	PASS
Band42	15MHz	16QAM	42165	1RB#38	20.88	16.59	30	PASS
Band42	15MHz	16QAM	42165	1RB#74	20.92	16.63	30	PASS
Band42	15MHz	16QAM	42165	75RB#0	19.82	15.53	30	PASS
Band42	15MHz	16QAM	42590	1RB#0	20.88	16.59	30	PASS
Band42	15MHz	16QAM	42590	1RB#38	20.91	16.62	30	PASS
Band42	15MHz	16QAM	42590	1RB#74	20.97	16.68	30	PASS
Band42	15MHz	16QAM	42590	75RB#0	19.85	15.56	30	PASS
Band42	15MHz	16QAM	43015	1RB#0	20.94	16.65	30	PASS
Band42	15MHz	16QAM	43015	1RB#38	20.9	16.61	30	PASS
Band42	15MHz	16QAM	43015	1RB#74	21.03	16.74	30	PASS
Band42	15MHz	16QAM	43015	75RB#0	19.88	15.59	30	PASS
Band42	15MHz	64QAM	42165	1RB#0	19.76	15.47	30	PASS
Band42	15MHz	64QAM	42165	1RB#38	19.81	15.52	30	PASS
Band42	15MHz	64QAM	42165	1RB#74	19.76	15.47	30	PASS



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Band42	15MHz	64QAM	42165	75RB#0	18.95	14.66	30	PASS
Band42	15MHz	64QAM	42590	1RB#0	19.73	15.44	30	PASS
Band42	15MHz	64QAM	42590	1RB#38	19.79	15.5	30	PASS
Band42	15MHz	64QAM	42590	1RB#74	19.82	15.53	30	PASS
Band42	15MHz	64QAM	42590	75RB#0	18.84	14.55	30	PASS
Band42	15MHz	64QAM	43015	1RB#0	19.83	15.54	30	PASS
Band42	15MHz	64QAM	43015	1RB#38	19.87	15.58	30	PASS
Band42	15MHz	64QAM	43015	1RB#74	19.87	15.58	30	PASS
Band42	15MHz	64QAM	43015	75RB#0	18.89	14.6	30	PASS
Band42	15MHz	256QAM	42165	1RB#0	16.77	12.48	30	PASS
Band42	15MHz	256QAM	42165	1RB#38	16.76	12.47	30	PASS
Band42	15MHz	256QAM	42165	1RB#74	16.74	12.45	30	PASS
Band42	15MHz	256QAM	42165	75RB#0	16.96	12.67	30	PASS
Band42	15MHz	256QAM	42590	1RB#0	16.71	12.42	30	PASS
Band42	15MHz	256QAM	42590	1RB#38	16.78	12.49	30	PASS
Band42	15MHz	256QAM	42590	1RB#74	16.82	12.53	30	PASS
Band42	15MHz	256QAM	42590	75RB#0	16.85	12.56	30	PASS
Band42	15MHz	256QAM	43015	1RB#0	16.78	12.49	30	PASS
Band42	15MHz	256QAM	43015	1RB#38	16.84	12.55	30	PASS
Band42	15MHz	256QAM	43015	1RB#74	16.86	12.57	30	PASS
Band42	15MHz	256QAM	43015	75RB#0	16.87	12.58	30	PASS
Band42	20MHz	QPSK	42190	1RB#0	22.01	17.72	30	PASS
Band42	20MHz	QPSK	42190	1RB#49	21.6	17.31	30	PASS
Band42	20MHz	QPSK	42190	1RB#99	21.78	17.49	30	PASS
Band42	20MHz	QPSK	42190	100RB#0	20.8	16.51	30	PASS
Band42	20MHz	QPSK	42590	1RB#0	21.89	17.6	30	PASS
Band42	20MHz	QPSK	42590	1RB#49	21.72	17.43	30	PASS
Band42	20MHz	QPSK	42590	1RB#99	21.77	17.48	30	PASS
Band42	20MHz	QPSK	42590	100RB#0	20.71	16.42	30	PASS
Band42	20MHz	QPSK	42990	1RB#0	21.96	17.67	30	PASS
Band42	20MHz	QPSK	42990	1RB#49	21.76	17.47	30	PASS
Band42	20MHz	QPSK	42990	1RB#99	21.8	17.51	30	PASS



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Band42	20MHz	QPSK	42990	100RB#0	20.71	16.42	30	PASS
Band42	20MHz	16QAM	42190	1RB#0	20.88	16.59	30	PASS
Band42	20MHz	16QAM	42190	1RB#49	20.92	16.63	30	PASS
Band42	20MHz	16QAM	42190	1RB#99	21.06	16.77	30	PASS
Band42	20MHz	16QAM	42190	100RB#0	20.02	15.73	30	PASS
Band42	20MHz	16QAM	42590	1RB#0	20.88	16.59	30	PASS
Band42	20MHz	16QAM	42590	1RB#49	20.95	16.66	30	PASS
Band42	20MHz	16QAM	42590	1RB#99	21.04	16.75	30	PASS
Band42	20MHz	16QAM	42590	100RB#0	19.94	15.65	30	PASS
Band42	20MHz	16QAM	42990	1RB#0	20.91	16.62	30	PASS
Band42	20MHz	16QAM	42990	1RB#49	21.04	16.75	30	PASS
Band42	20MHz	16QAM	42990	1RB#99	21.07	16.78	30	PASS
Band42	20MHz	16QAM	42990	100RB#0	19.94	15.65	30	PASS
Band42	20MHz	64QAM	42190	1RB#0	19.72	15.43	30	PASS
Band42	20MHz	64QAM	42190	1RB#49	19.86	15.57	30	PASS
Band42	20MHz	64QAM	42190	1RB#99	19.85	15.56	30	PASS
Band42	20MHz	64QAM	42190	100RB#0	18.95	14.66	30	PASS
Band42	20MHz	64QAM	42590	1RB#0	19.77	15.48	30	PASS
Band42	20MHz	64QAM	42590	1RB#49	19.81	15.52	30	PASS
Band42	20MHz	64QAM	42590	1RB#99	19.85	15.56	30	PASS
Band42	20MHz	64QAM	42590	100RB#0	18.89	14.6	30	PASS
Band42	20MHz	64QAM	42990	1RB#0	19.75	15.46	30	PASS
Band42	20MHz	64QAM	42990	1RB#49	19.86	15.57	30	PASS
Band42	20MHz	64QAM	42990	1RB#99	19.87	15.58	30	PASS
Band42	20MHz	64QAM	42990	100RB#0	18.87	14.58	30	PASS
Band42	20MHz	256QAM	42190	1RB#0	16.74	12.45	30	PASS
Band42	20MHz	256QAM	42190	1RB#49	16.86	12.57	30	PASS
Band42	20MHz	256QAM	42190	1RB#99	16.86	12.57	30	PASS
Band42	20MHz	256QAM	42190	100RB#0	16.95	12.66	30	PASS
Band42	20MHz	256QAM	42590	1RB#0	16.74	12.45	30	PASS
Band42	20MHz	256QAM	42590	1RB#49	16.82	12.53	30	PASS
Band42	20MHz	256QAM	42590	1RB#99	16.87	12.58	30	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

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Band42	20MHz	256QAM	42590	100RB#0	16.86	12.57	30	PASS
Band42	20MHz	256QAM	42990	1RB#0	16.71	12.42	30	PASS
Band42	20MHz	256QAM	42990	1RB#49	16.85	12.56	30	PASS
Band42	20MHz	256QAM	42990	1RB#99	16.89	12.6	30	PASS
Band42	20MHz	256QAM	42990	100RB#0	16.85	12.56	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band42	20MHz	QPSK	42190	100RB#0	9.30	13	PASS
Band42	20MHz	QPSK	42590	100RB#0	9.28	13	PASS
Band42	20MHz	QPSK	42990	100RB#0	9.30	13	PASS
Band42	20MHz	16QAM	42190	100RB#0	9.70	13	PASS
Band42	20MHz	16QAM	42590	100RB#0	9.92	13	PASS
Band42	20MHz	16QAM	42990	100RB#0	9.94	13	PASS
Band42	20MHz	64QAM	42190	100RB#0	9.90	13	PASS
Band42	20MHz	64QAM	42590	100RB#0	10.08	13	PASS
Band42	20MHz	64QAM	42990	100RB#0	10.16	13	PASS
Band42	20MHz	256QAM	42190	100RB#0	10.04	13	PASS
Band42	20MHz	256QAM	42590	100RB#0	10.32	13	PASS
Band42	20MHz	256QAM	42990	100RB#0	10.06	13	PASS



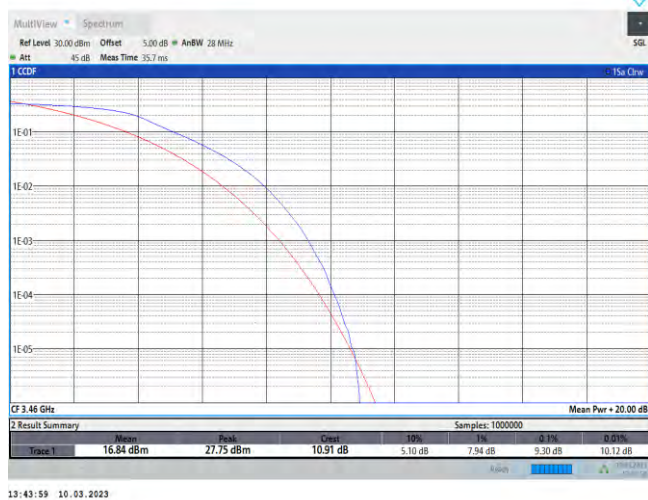
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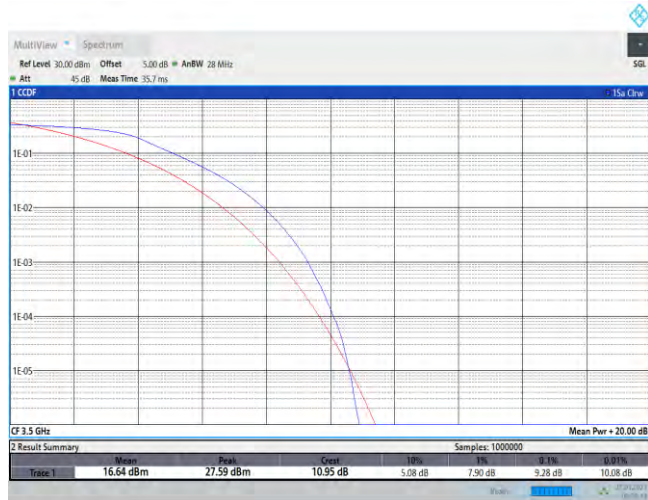
Test Graphs

Band42-20MHz-QPSK-42190-100RB#0



13:43:59 10.03.2023

Band42-20MHz-QPSK-42590-100RB#0



06:30:13 21.03.2023

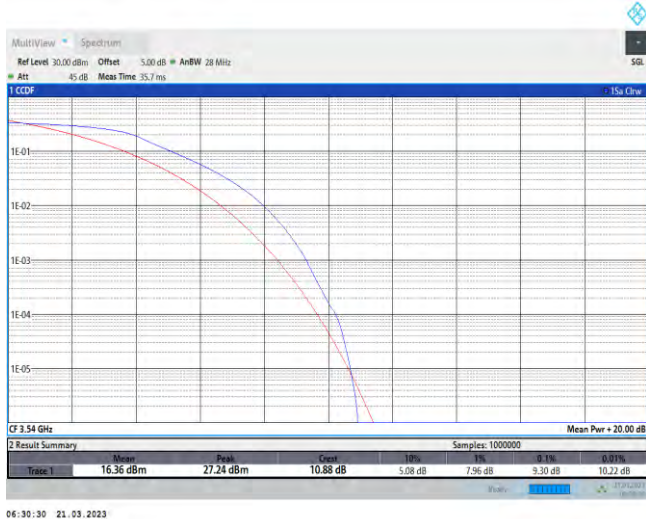


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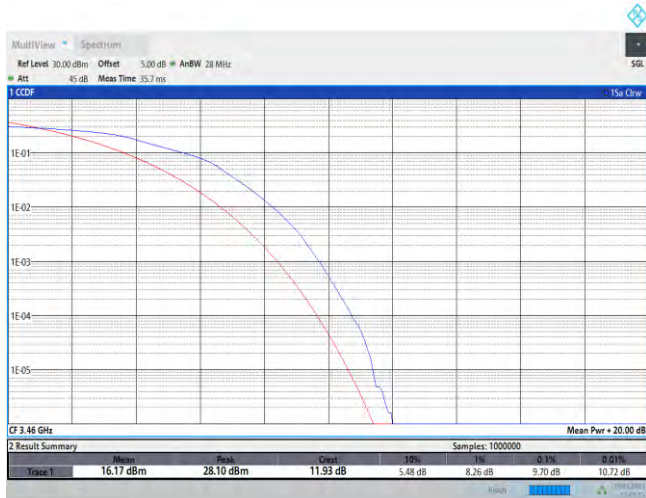
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Band42-20MHz-QPSK-42990-100RB#0



06:30:30 21.03.2023

Band42-20MHz-16QAM-42190-100RB#0



13:44:16 10.03.2023

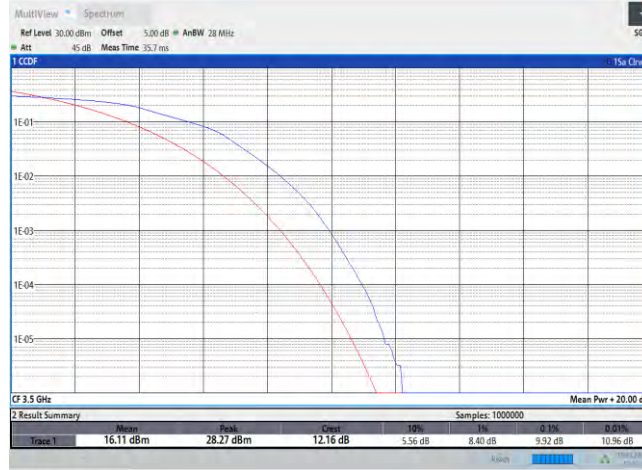


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Band42-20MHz-16QAM-42590-100RB#0



13:45:24 10.03.2023

Band42-20MHz-16QAM-42990-100RB#0



13:46:33 10.03.2023



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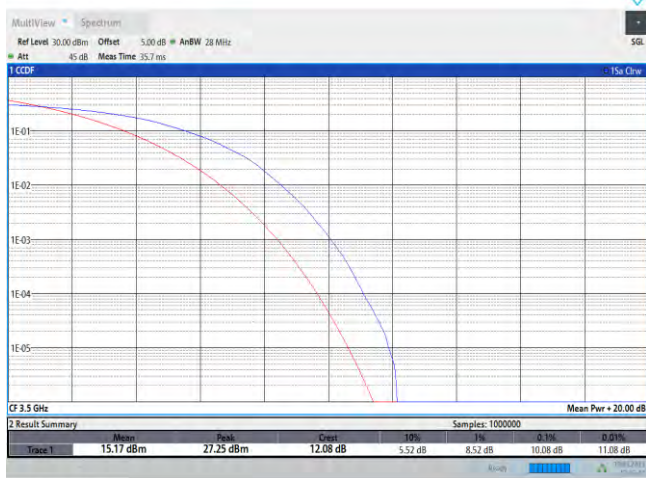
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Band42-20MHz-64QAM-42190-100RB#0



13:44:32 10.03.2023

Band42-20MHz-64QAM-42590-100RB#0



13:45:41 10.03.2023



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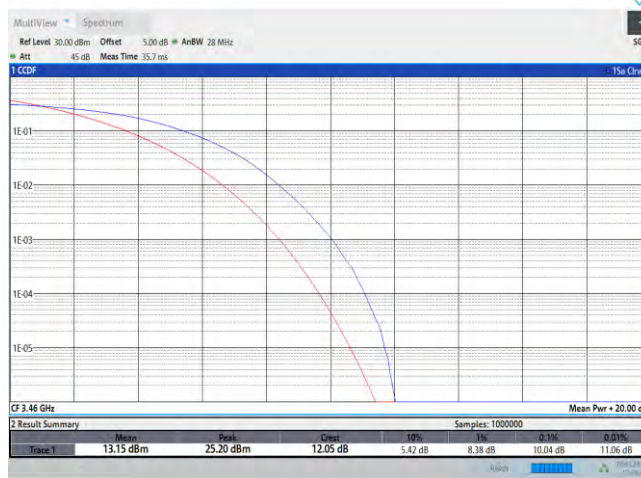
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Band42-20MHz-64QAM-42990-100RB#0



13:46:49 10.03.2023

Band42-20MHz-256QAM-42190-100RB#0



13:44:49 10.03.2023



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Band42-20MHz-256QAM-42590-100RB#0



13:45:58 10.03.2023

Band42-20MHz-256QAM-42990-100RB#0



13:47:06 10.03.2023



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band42	20MHz	QPSK	42590	100RB#0	PASS	PASS
Band42	20MHz	16QAM	42590	100RB#0	PASS	PASS
Band42	20MHz	64QAM	42590	100RB#0	PASS	PASS
Band42	20MHz	256QAM	42590	100RB#0	PASS	PASS



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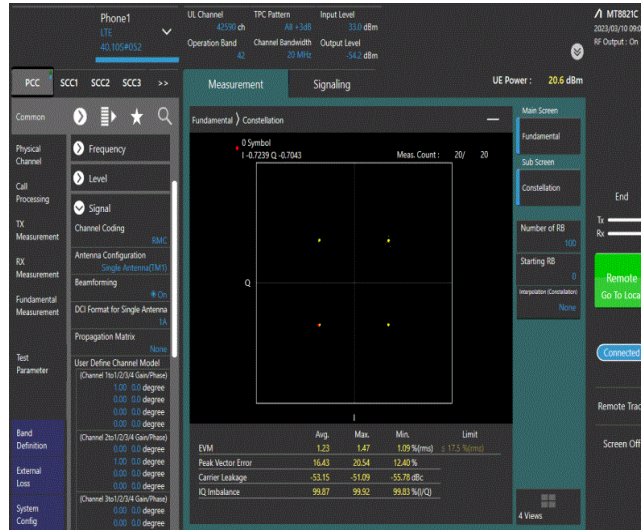
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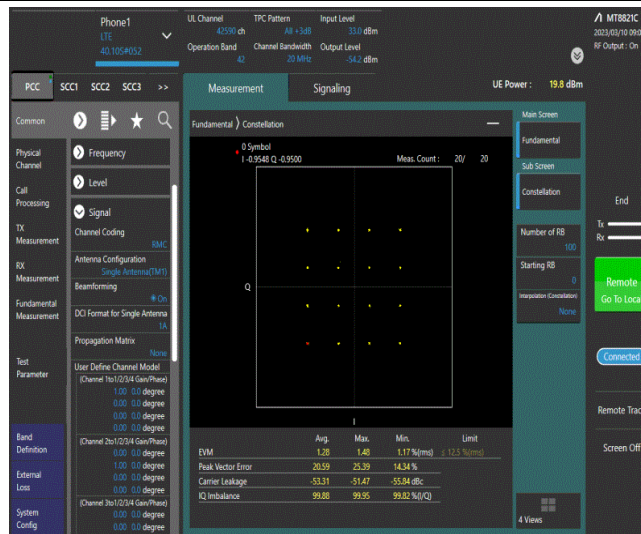
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Test Graphs

Band42-20MHz-QPSK-42590-100RB#0



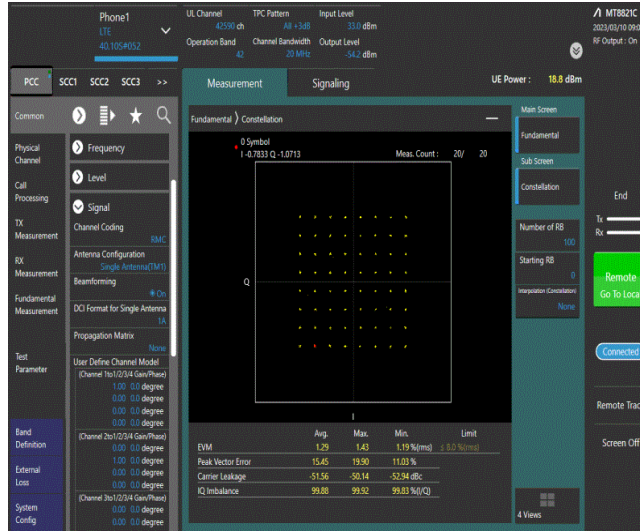
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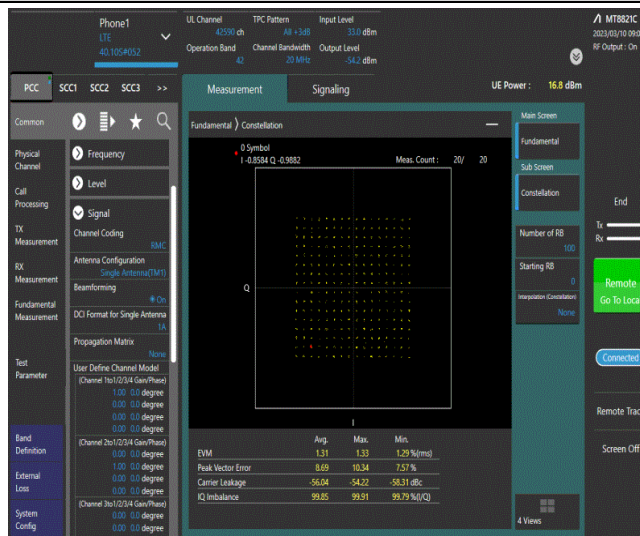
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Band42-20MHz-64QAM-42590-100RB#0



Band42-20MHz-256QAM-42590-100RB#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
Band42	5MHz	QPSK	42115	25RB#0	4.493	4.98	PASS
Band42	5MHz	QPSK	42590	25RB#0	4.489	4.87	PASS
Band42	5MHz	QPSK	43065	25RB#0	4.485	4.88	PASS
Band42	5MHz	16QAM	42115	25RB#0	4.479	4.89	PASS
Band42	5MHz	16QAM	42590	25RB#0	4.480	4.93	PASS
Band42	5MHz	16QAM	43065	25RB#0	4.494	5.12	PASS
Band42	5MHz	64QAM	42115	25RB#0	4.474	5.04	PASS
Band42	5MHz	64QAM	42590	25RB#0	4.506	5.04	PASS
Band42	5MHz	64QAM	43065	25RB#0	4.493	4.86	PASS
Band42	5MHz	256QAM	42115	25RB#0	4.482	4.95	PASS
Band42	5MHz	256QAM	42590	25RB#0	4.488	4.82	PASS
Band42	5MHz	256QAM	43065	25RB#0	4.457	4.76	PASS
Band42	10MHz	QPSK	42140	50RB#0	8.990	9.70	PASS
Band42	10MHz	QPSK	42590	50RB#0	8.995	9.67	PASS
Band42	10MHz	QPSK	43040	50RB#0	8.968	9.83	PASS
Band42	10MHz	16QAM	42140	50RB#0	8.958	9.63	PASS
Band42	10MHz	16QAM	42590	50RB#0	9.019	9.63	PASS
Band42	10MHz	16QAM	43040	50RB#0	8.950	9.80	PASS
Band42	10MHz	64QAM	42140	50RB#0	9.005	9.60	PASS
Band42	10MHz	64QAM	42590	50RB#0	9.005	9.77	PASS
Band42	10MHz	64QAM	43040	50RB#0	8.949	9.73	PASS
Band42	10MHz	256QAM	42140	50RB#0	8.965	9.77	PASS
Band42	10MHz	256QAM	42590	50RB#0	8.975	9.73	PASS
Band42	10MHz	256QAM	43040	50RB#0	8.966	9.73	PASS
Band42	15MHz	QPSK	42165	75RB#0	13.494	14.40	PASS
Band42	15MHz	QPSK	42590	75RB#0	13.485	14.30	PASS
Band42	15MHz	QPSK	43015	75RB#0	13.474	14.50	PASS
Band42	15MHz	16QAM	42165	75RB#0	13.451	14.35	PASS
Band42	15MHz	16QAM	42590	75RB#0	13.456	14.30	PASS
Band42	15MHz	16QAM	43015	75RB#0	13.440	14.35	PASS



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Report No.: SEWA2303000029RG01

Rev.: 01

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Band42	15MHz	64QAM	42165	75RB#0	13.436	14.50	PASS
Band42	15MHz	64QAM	42590	75RB#0	13.460	14.60	PASS
Band42	15MHz	64QAM	43015	75RB#0	13.442	14.45	PASS
Band42	15MHz	256QAM	42165	75RB#0	13.487	14.70	PASS
Band42	15MHz	256QAM	42590	75RB#0	13.468	14.65	PASS
Band42	15MHz	256QAM	43015	75RB#0	13.473	14.50	PASS
Band42	20MHz	QPSK	42190	100RB#0	17.942	19.27	PASS
Band42	20MHz	QPSK	42590	100RB#0	17.995	19.53	PASS
Band42	20MHz	QPSK	42990	100RB#0	17.959	19.40	PASS
Band42	20MHz	16QAM	42190	100RB#0	17.980	19.33	PASS
Band42	20MHz	16QAM	42590	100RB#0	18.032	19.20	PASS
Band42	20MHz	16QAM	42990	100RB#0	17.979	19.27	PASS
Band42	20MHz	64QAM	42190	100RB#0	17.986	19.40	PASS
Band42	20MHz	64QAM	42590	100RB#0	18.012	19.53	PASS
Band42	20MHz	64QAM	42990	100RB#0	17.898	19.67	PASS
Band42	20MHz	256QAM	42190	100RB#0	17.893	19.27	PASS
Band42	20MHz	256QAM	42590	100RB#0	17.981	19.47	PASS
Band42	20MHz	256QAM	42990	100RB#0	17.950	19.53	PASS



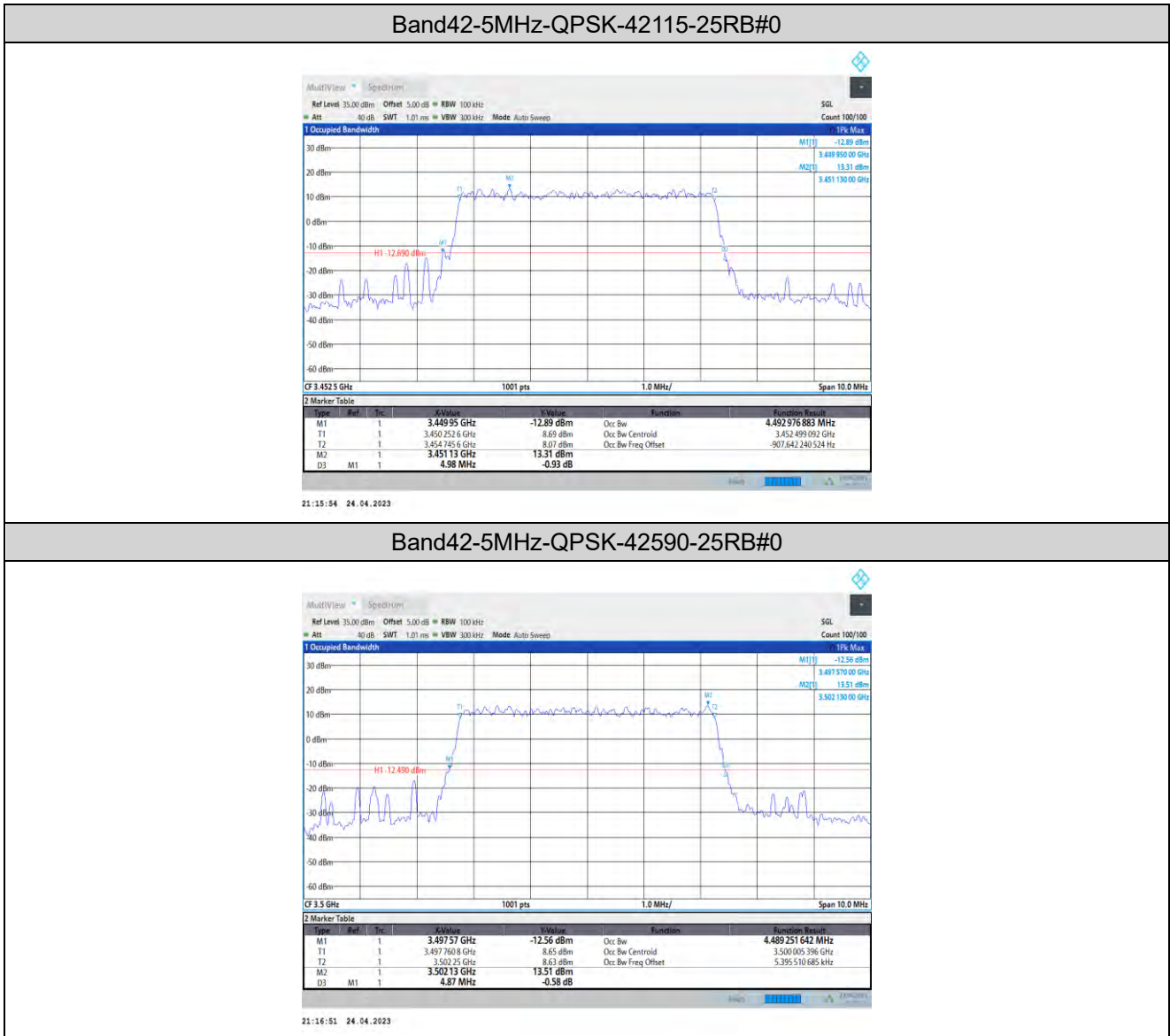
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Test Graphs



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Band42-5MHz-QPSK-43065-25RB#0



21:17:49 24.04.2023

Band42-5MHz-16QAM-42115-25RB#0



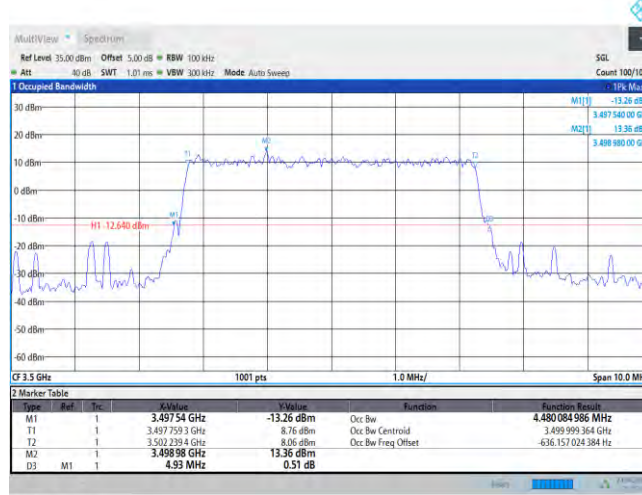
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Band42-5MHz-16QAM-42590-25RB#0



21:17:05 24.04.2023

Band42-5MHz-16QAM-43065-25RB#0



21:18:02 24.04.2023



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Band42-5MHz-64QAM-42115-25RB#0



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Band42-5MHz-64QAM-42590-25RB#0



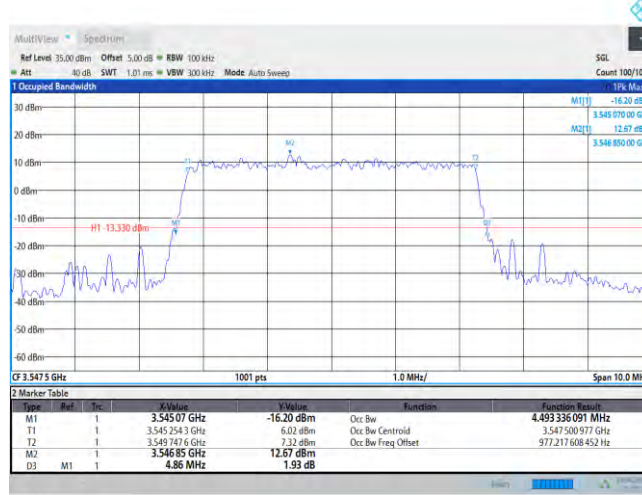
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Band42-5MHz-64QAM-43065-25RB#0



21:18:16 24.04.2023

Band42-5MHz-256QAM-42115-25RB#0



21:59:10 24.04.2023



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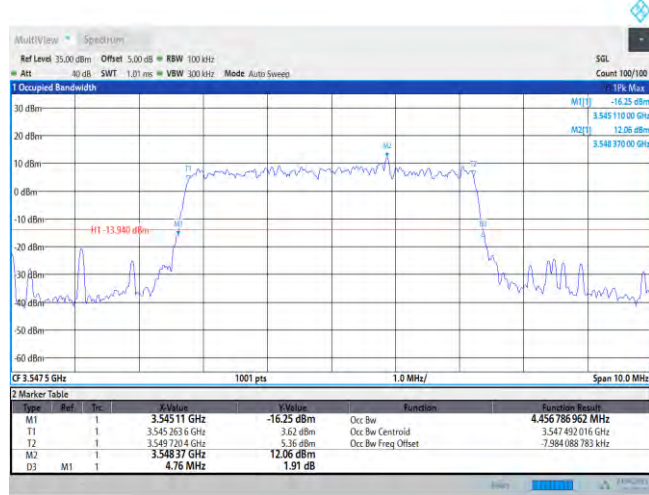
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Band42-5MHz-256QAM-42590-25RB#0



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Band42-5MHz-256QAM-43065-25RB#0



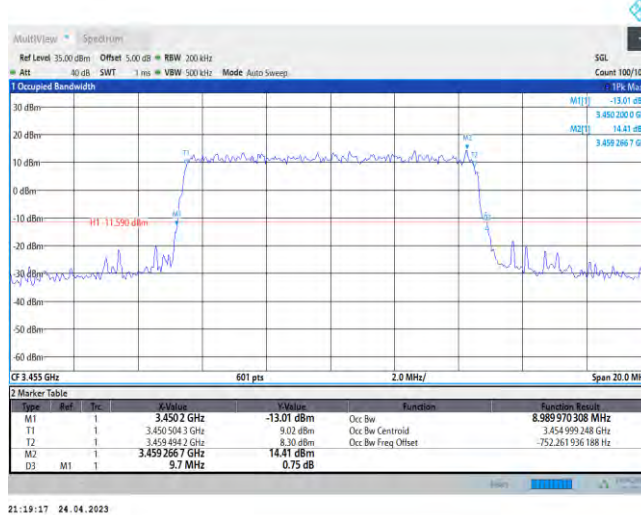
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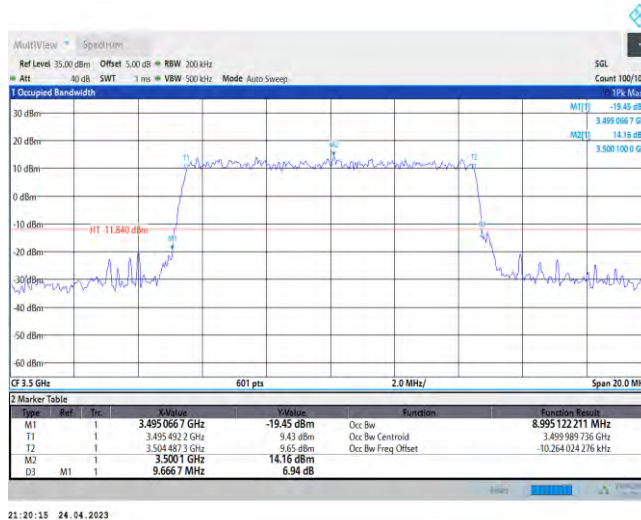
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Band42-10MHz-QPSK-42140-50RB#0



Band42-10MHz-QPSK-42590-50RB#0

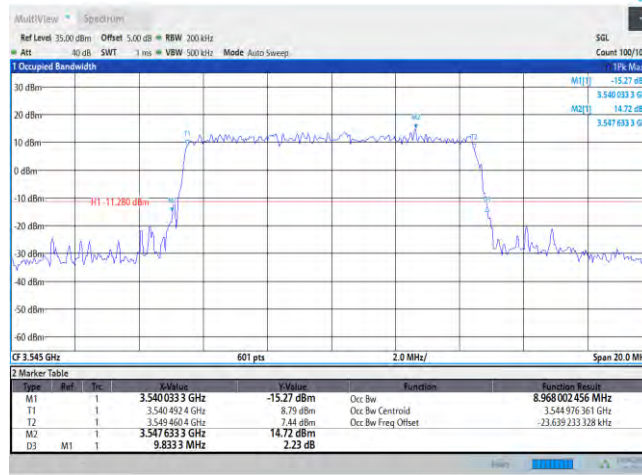


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Band42-10MHz-QPSK-43040-50RB#0



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Band42-10MHz-16QAM-42140-50RB#0



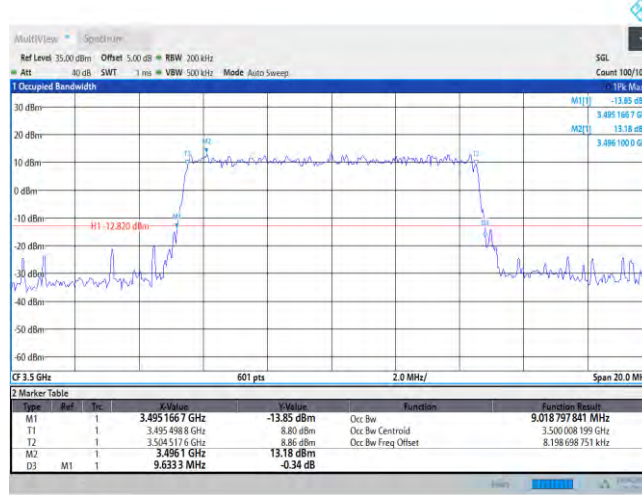
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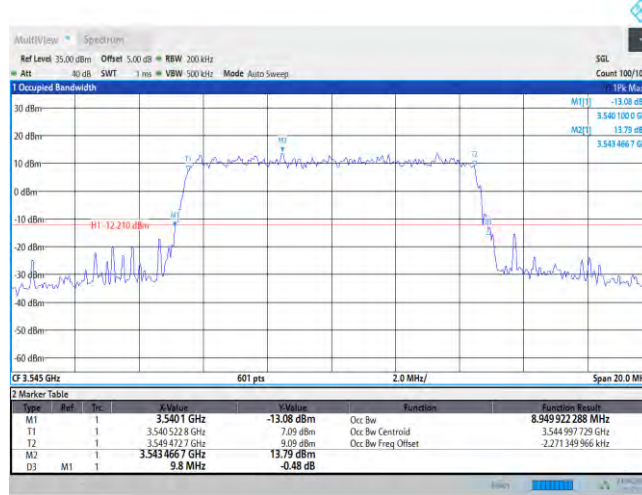
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Band42-10MHz-16QAM-42590-50RB#0



21:20:28 24.04.2023

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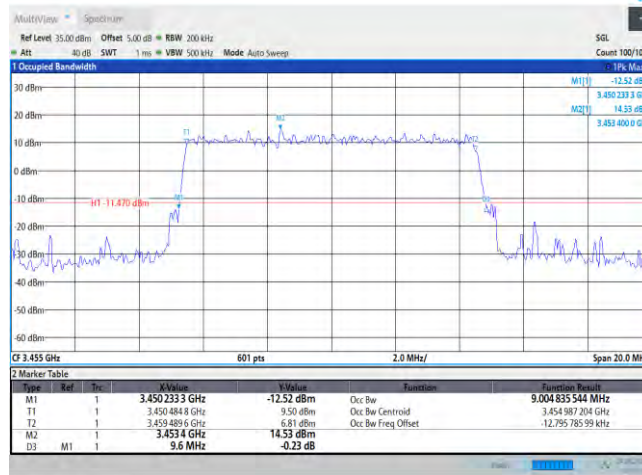
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Band42-10MHz-64QAM-42140-50RB#0



22:01:50 24.04.2023

Band42-10MHz-64QAM-42590-50RB#0



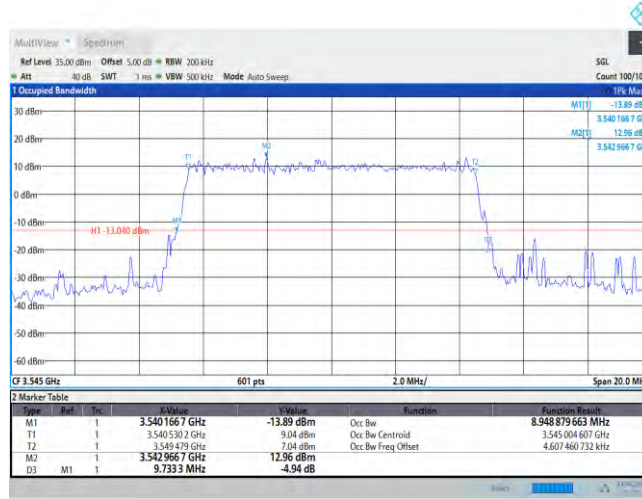
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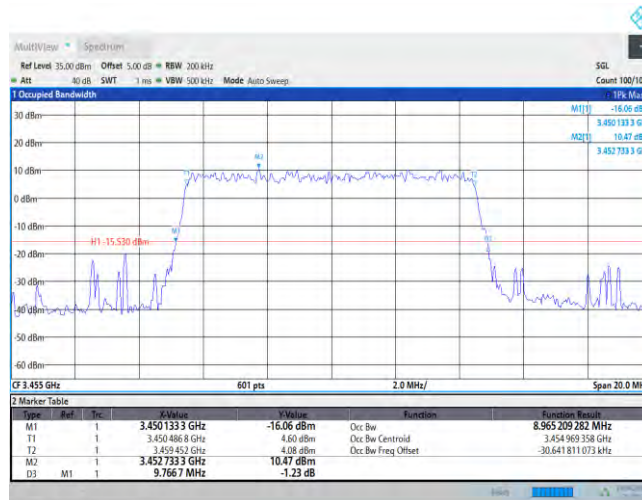
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Band42-10MHz-64QAM-43040-50RB#0



21:21:37 24.04.2023

Band42-10MHz-256QAM-42140-50RB#0



21:19:57 24.04.2023



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Band42-10MHz-256QAM-42590-50RB#0



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Band42-10MHz-256QAM-43040-50RB#0



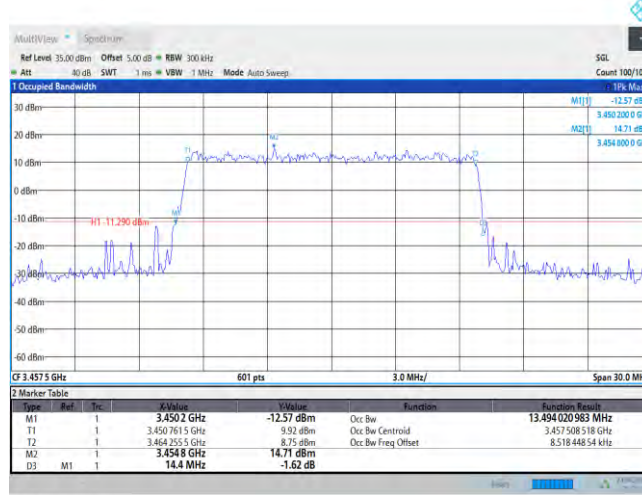
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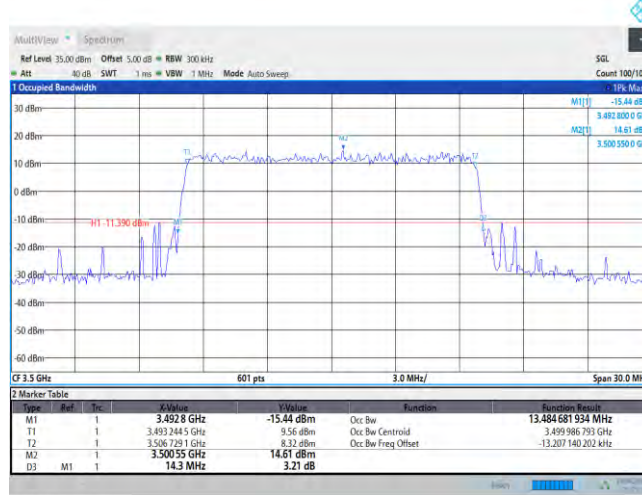
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Band42-15MHz-QPSK-42165-75RB#0



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Band42-15MHz-QPSK-42590-75RB#0



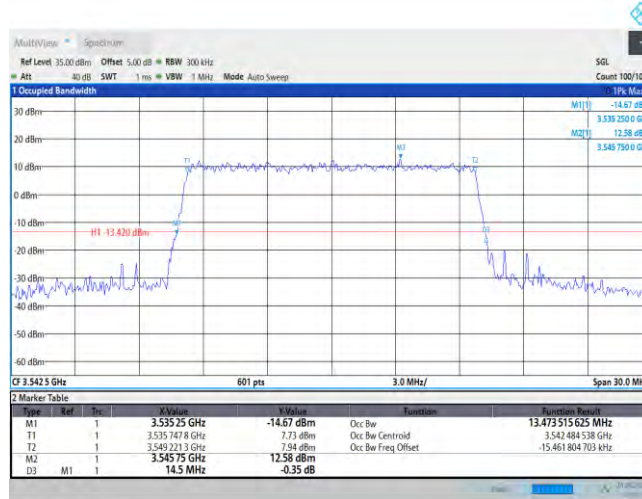
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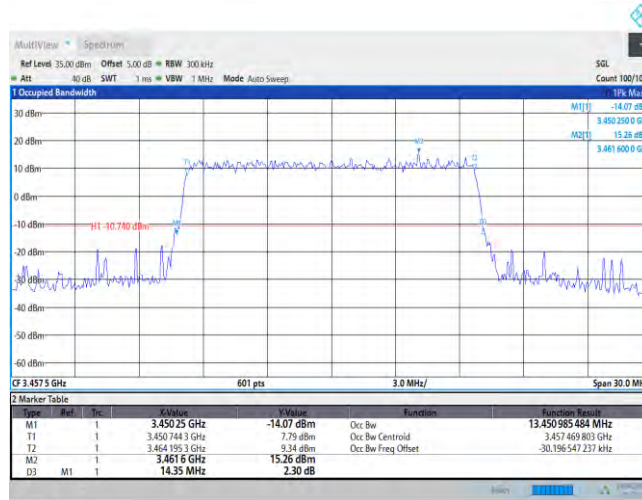
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Band42-15MHz-QPSK-43015-75RB#0



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Band42-15MHz-16QAM-42165-75RB#0



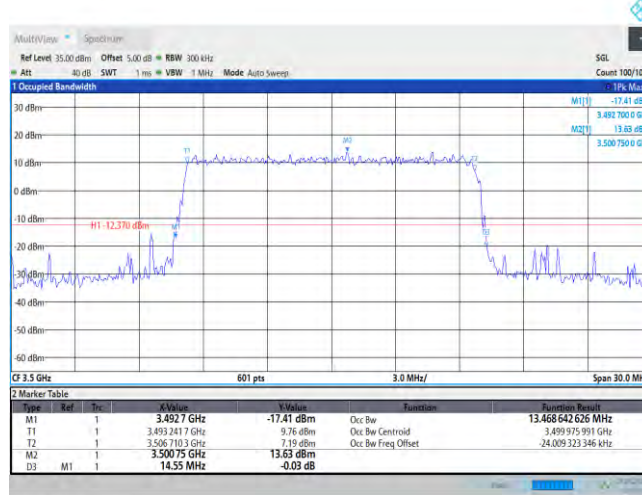
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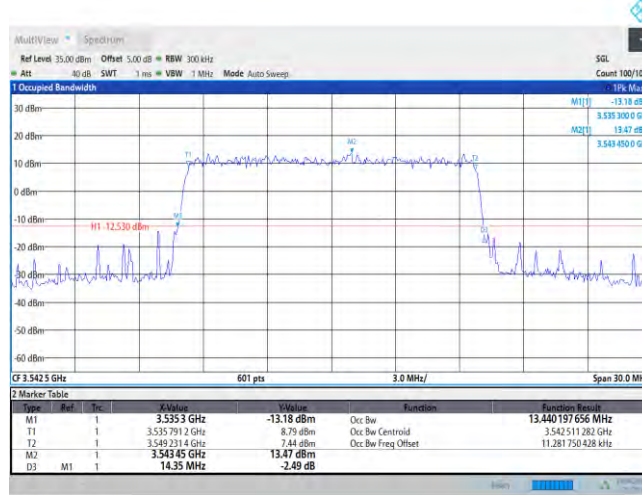
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Band42-15MHz-16QAM-42590-75RB#0



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Band42-15MHz-16QAM-43015-75RB#0



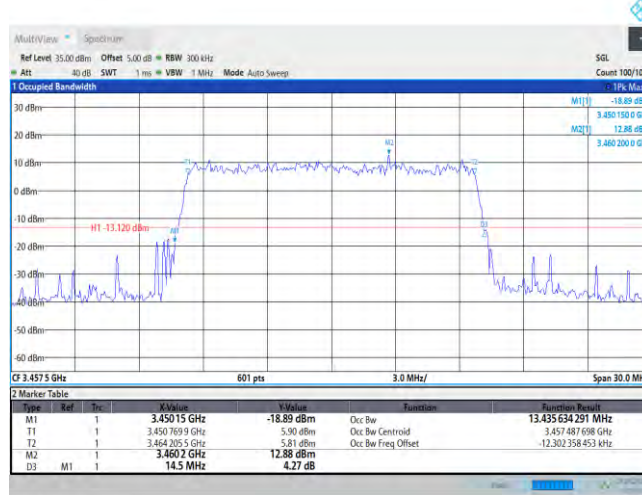
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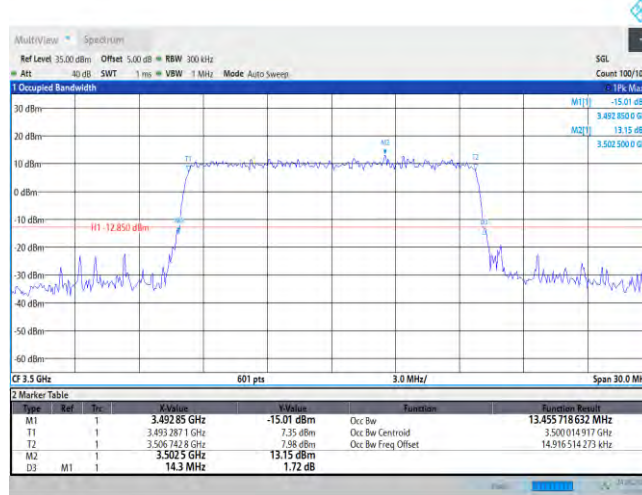
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Band42-15MHz-64QAM-42165-75RB#0



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Band42-15MHz-64QAM-42590-75RB#0



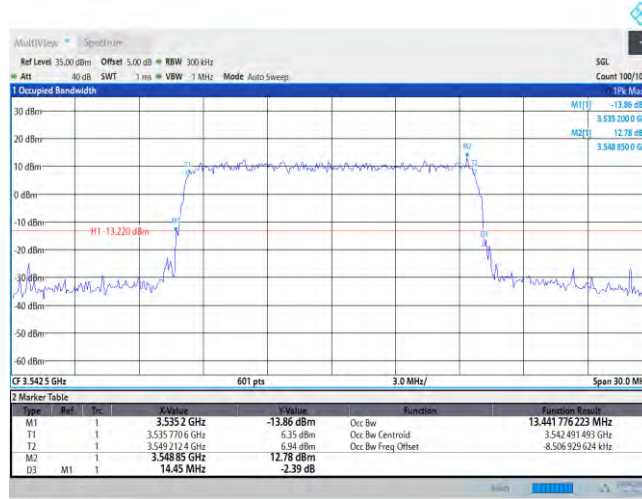
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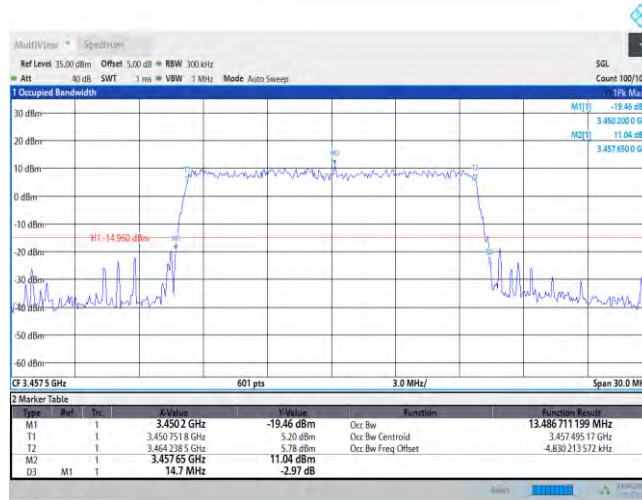
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Band42-15MHz-64QAM-43015-75RB#0



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Band42-15MHz-256QAM-42165-75RB#0



21:23:19 24.04.2023

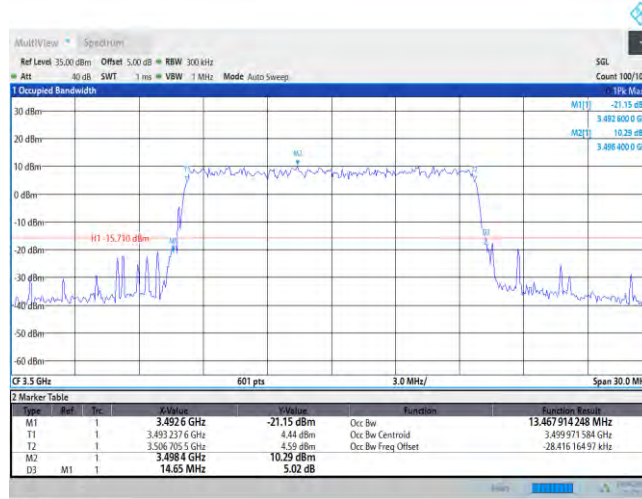


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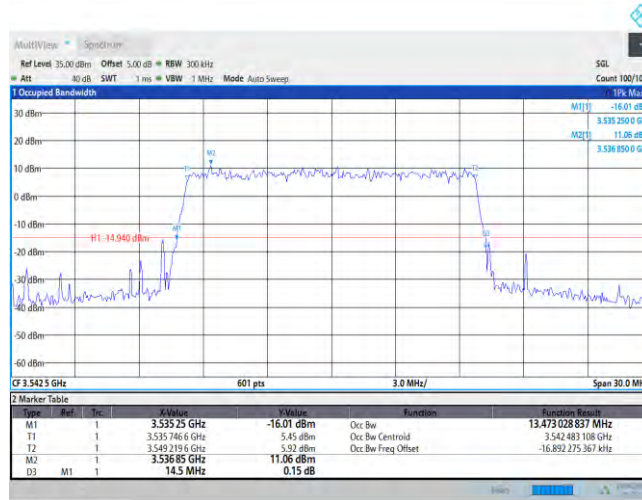
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Band42-15MHz-256QAM-42590-75RB#0



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Band42-15MHz-256QAM-43015-75RB#0



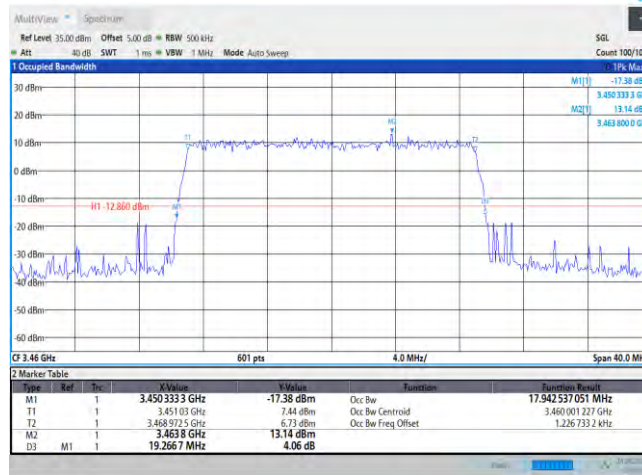
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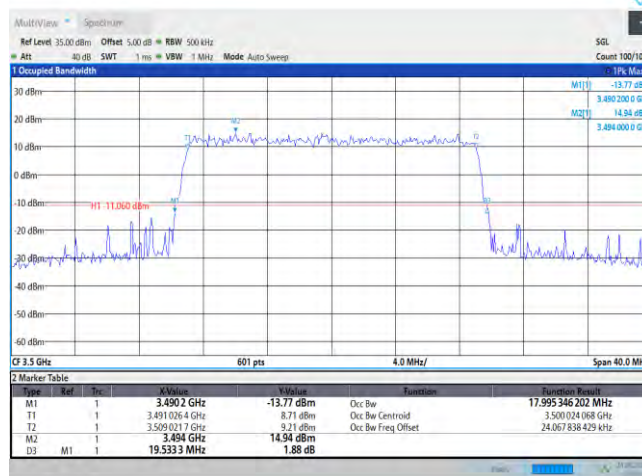
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Band42-20MHz-QPSK-42190-100RB#0



22:08:27 24.04.2023

Band42-20MHz-QPSK-42590-100RB#0



22:08:58 24.04.2023



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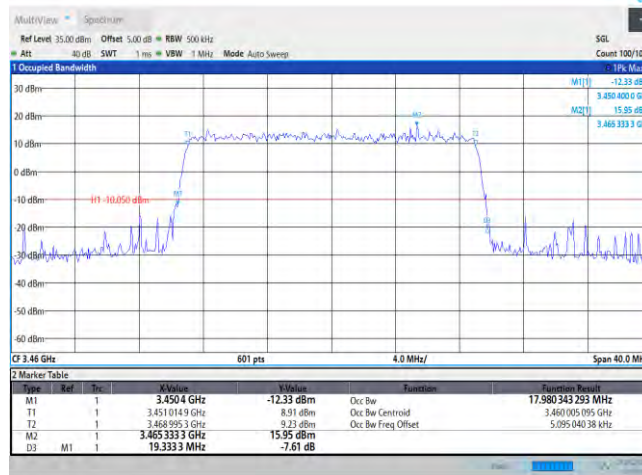
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Band42-20MHz-QPSK-42990-100RB#0



22:10:19 24.04.2023

Band42-20MHz-16QAM-42190-100RB#0



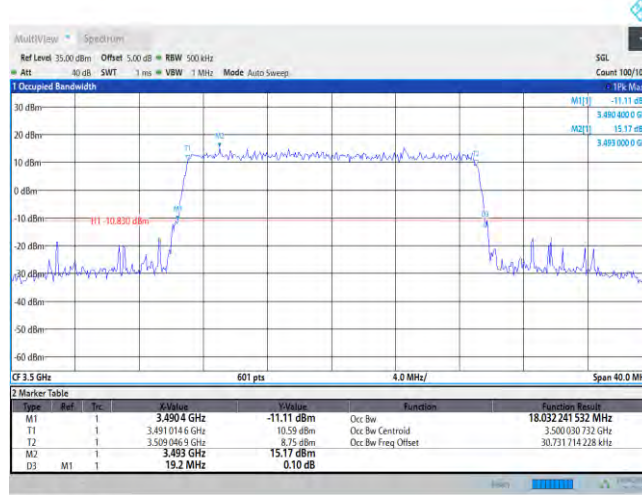
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Band42-20MHz-16QAM-42590-100RB#0



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Band42-20MHz-16QAM-42990-100RB#0



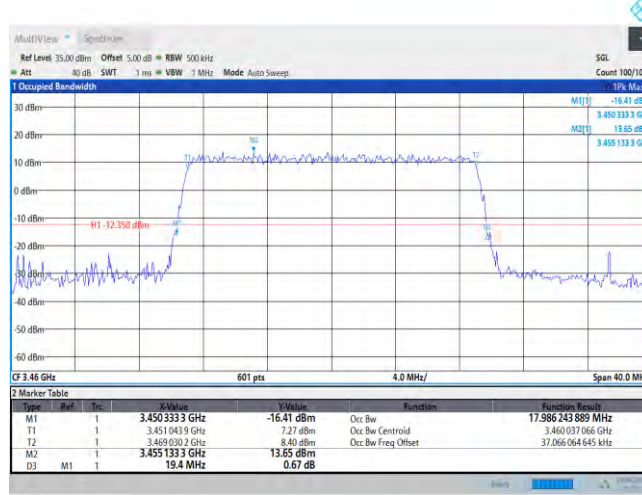
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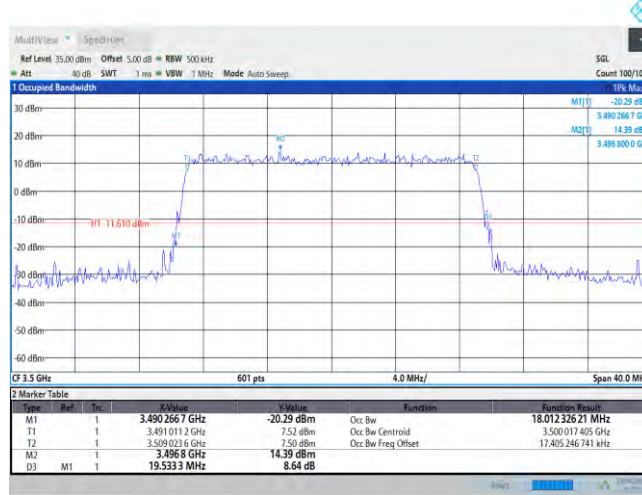
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Band42-20MHz-64QAM-42590-100RB#0



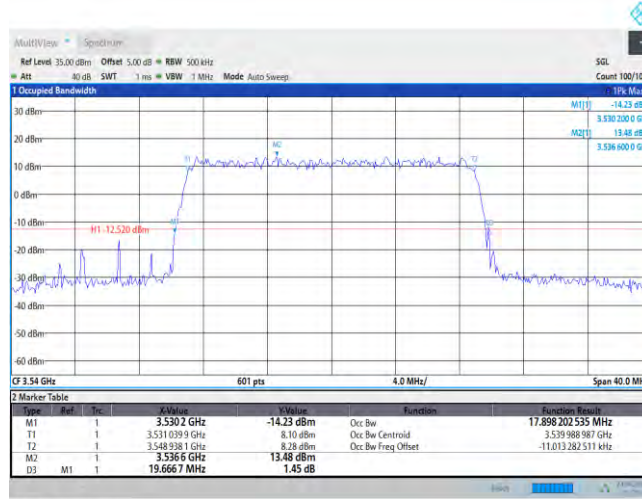
21:27:08 24.04.2023



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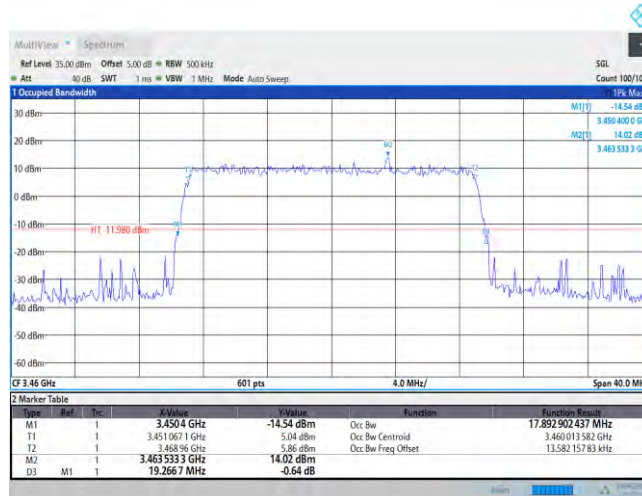
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Band42-20MHz-64QAM-42990-100RB#0



21:28:03 24.04.2023

Band42-20MHz-256QAM-42190-100RB#0



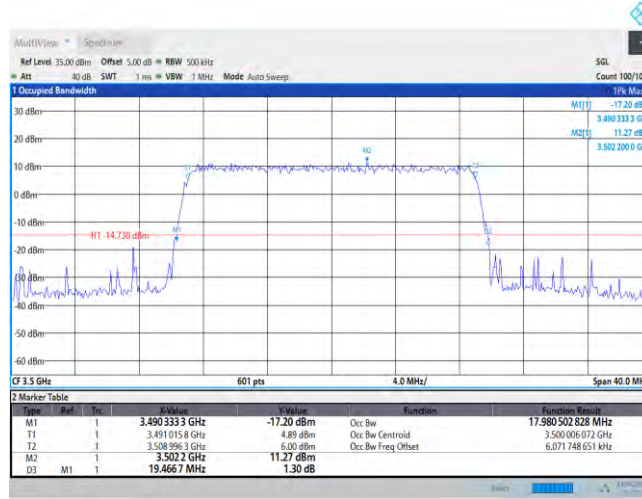
21:26:24 24.04.2023



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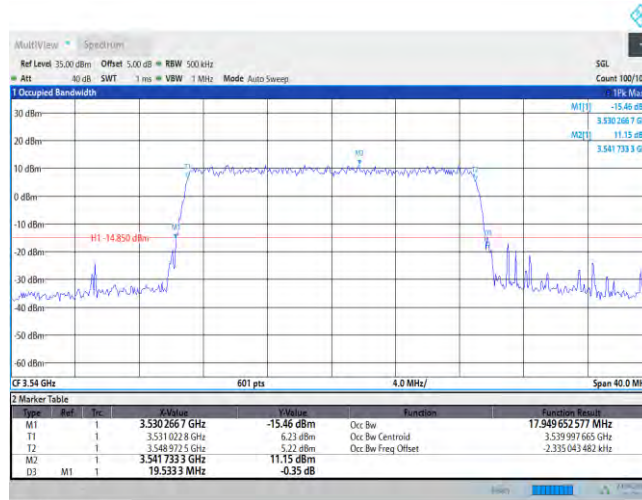
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Band42-20MHz-256QAM-42590-100RB#0



21:27:21 24.04.2023

Band42-20MHz-256QAM-42990-100RB#0



21:28:16 24.04.2023



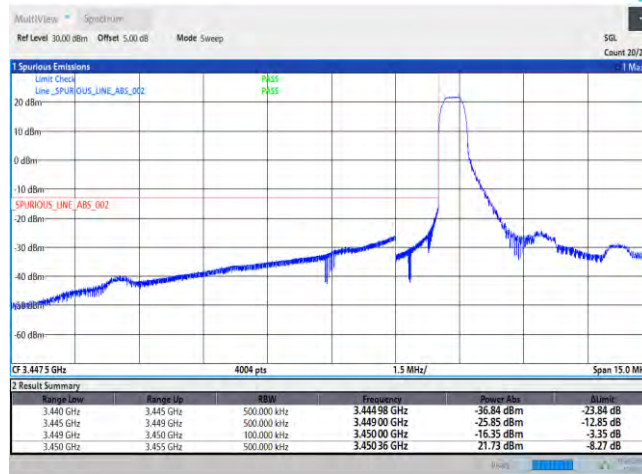
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Band Edge

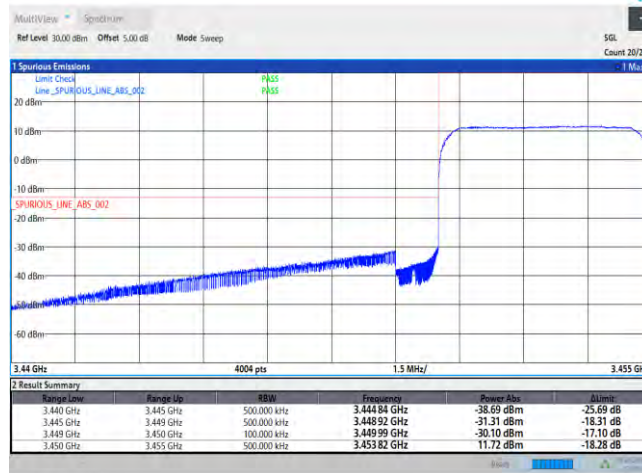
Test Graphs

Band42-5MHz-QPSK-42115-1RB#0



13:43:52 16.03.2023

Band42-5MHz-QPSK-42115-25RB#0



13:44:48 16.03.2023



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Band42-5MHz-QPSK-43065-1RB#24



13:46:23 16.03.2023

Band42-5MHz-QPSK-43065-25RB#0



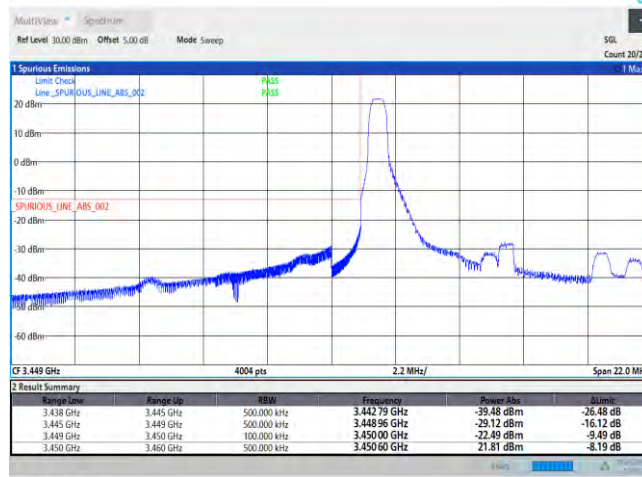
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Band42-10MHz-QPSK-42140-1RB#0



13:48:56 16. 03. 2023

Band42-10MHz-QPSK-42140-50RB#0



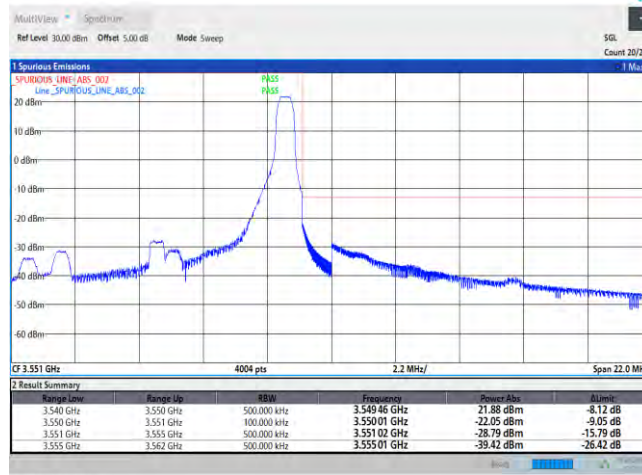
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Band42-10MHz-QPSK-43040-1RB#49



13:51:21 16.03.2023

Band42-10MHz-QPSK-43040-50RB#0



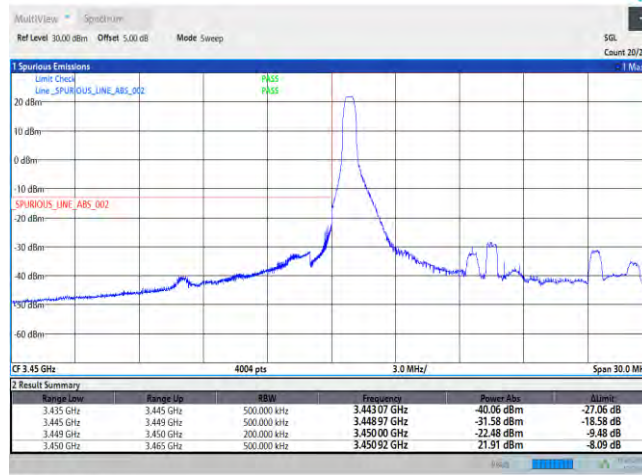
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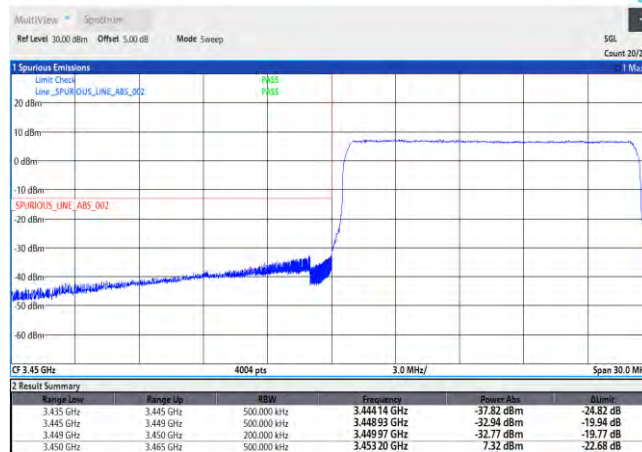
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Band42-15MHz-QPSK-42165-1RB#0



13:53:46 16.03.2023

Band42-15MHz-QPSK-42165-75RB#0



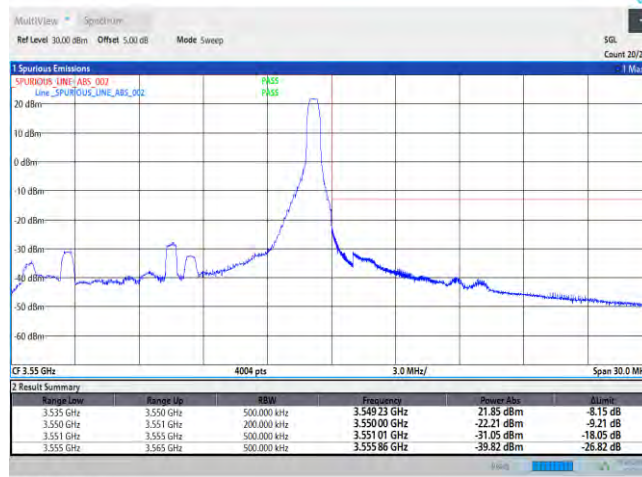
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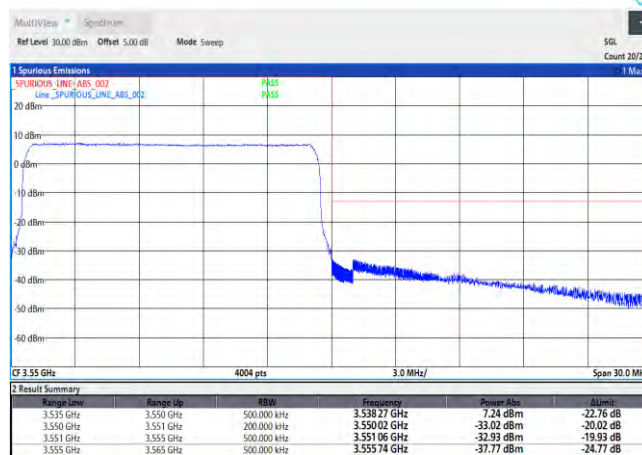
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Band42-15MHz-QPSK-43015-1RB#74



13:56:19 16.03.2023

Band42-15MHz-QPSK-43015-75RB#0



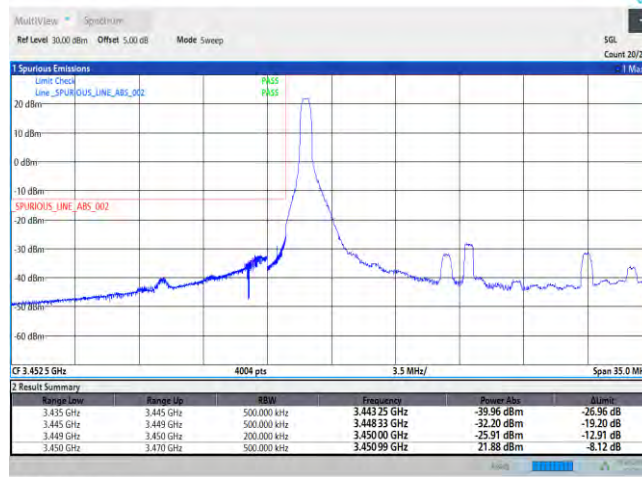
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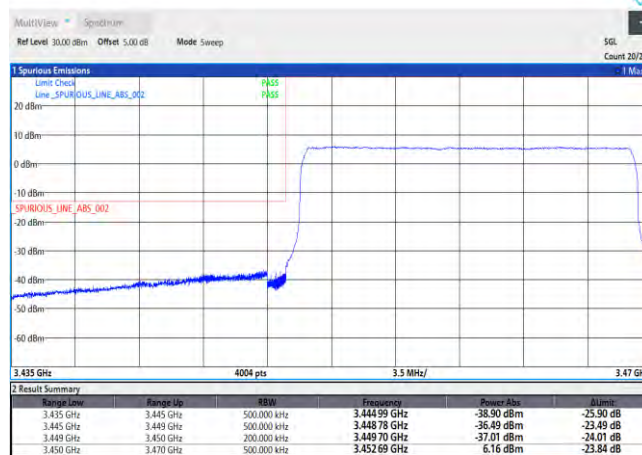
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Band42-20MHz-QPSK-42190-1RB#0



13:58:31 16.03.2023

Band42-20MHz-QPSK-42190-100RB#0



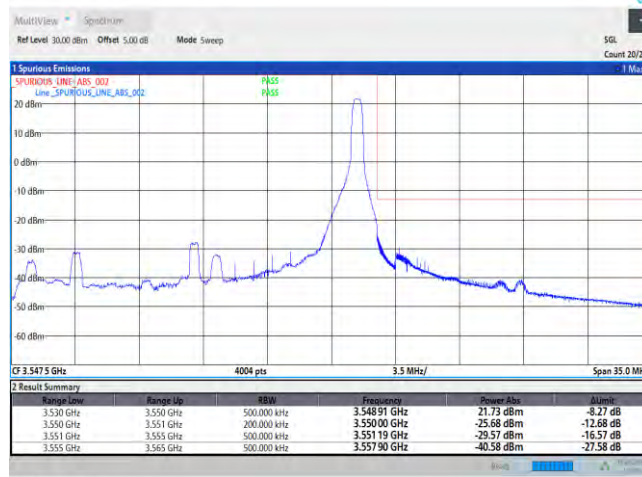
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Band42-20MHz-QPSK-42990-1RB#99



14:00:55 16.03.2023

Band42-20MHz-QPSK-42990-100RB#0



14:01:48 16.03.2023



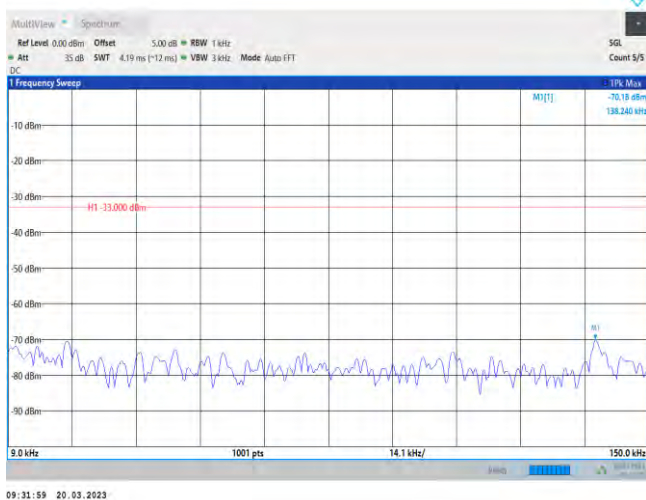
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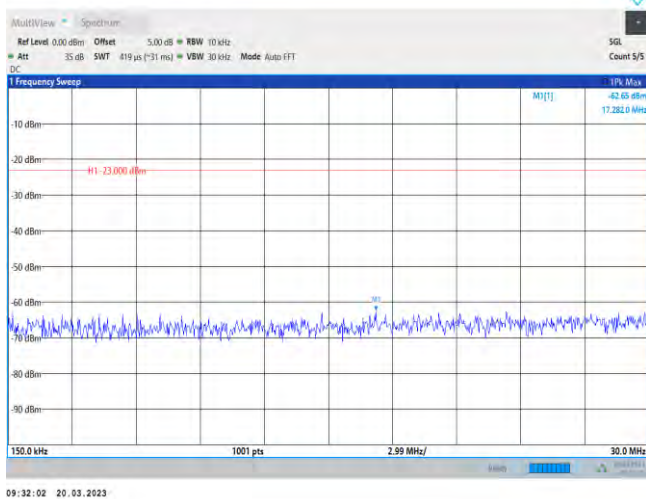
Conducted Spurious Emission

Test Graphs

Band42-20MHz-QPSK-42190-1RB#0-Range1:0.009~0.15MHz



Band42-20MHz-QPSK-42190-1RB#0-Range2:0.15~30MHz

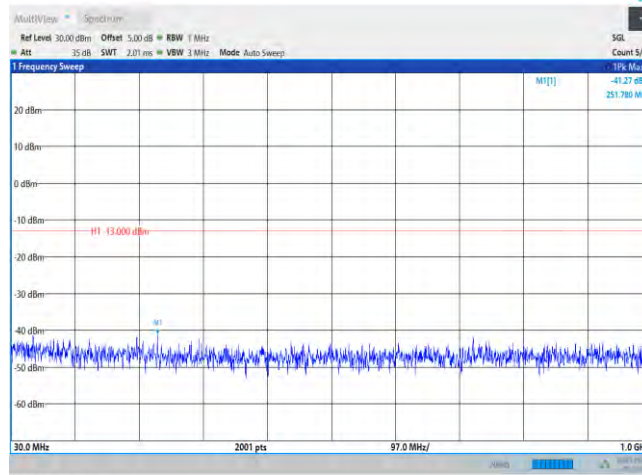


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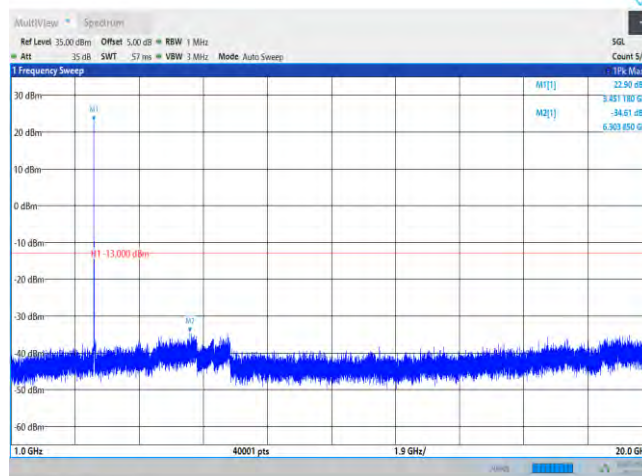
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Band42-20MHz-QPSK-42190-1RB#0-Range3:30~1000MHz



09:32:06 20.03.2023

Band42-20MHz-QPSK-42190-1RB#0-Range4:1000~20000MHz



09:32:11 20.03.2023

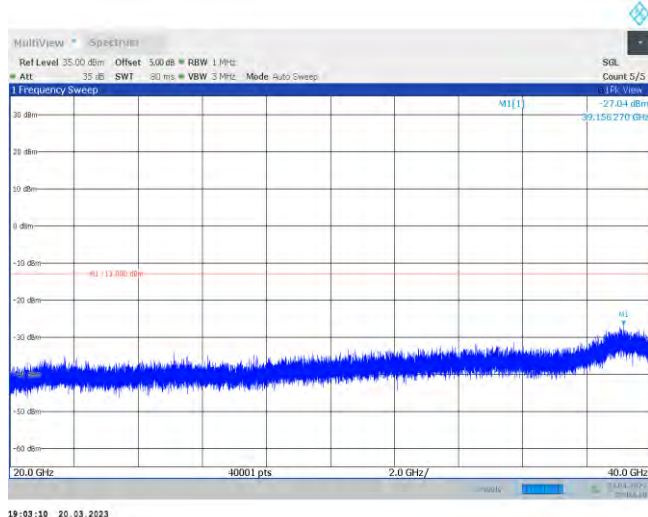


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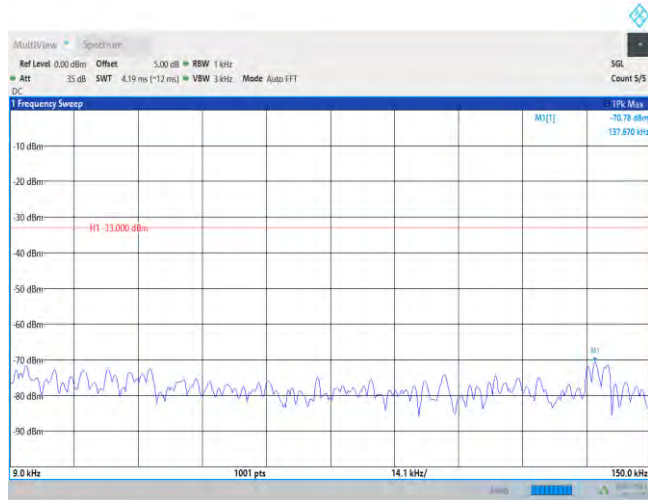
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Band42-20MHz-QPSK-42190-1RB#0-Range5:20000~40000MHz



19:03:10 20.03.2023

Band42-20MHz-QPSK-42590-1RB#0-Range1:0.009~0.15MHz



09:32:28 20.03.2023

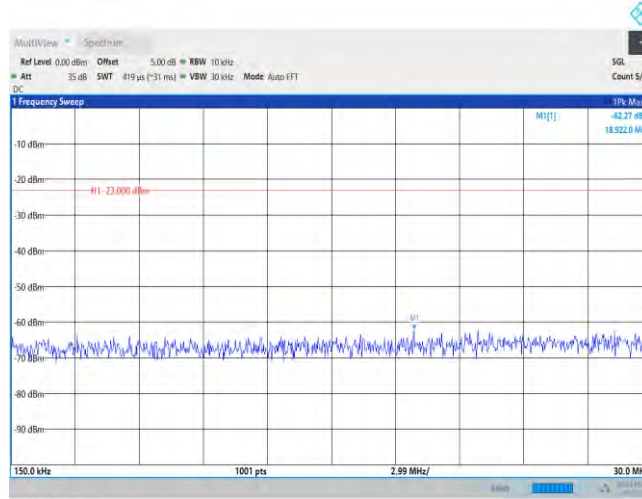


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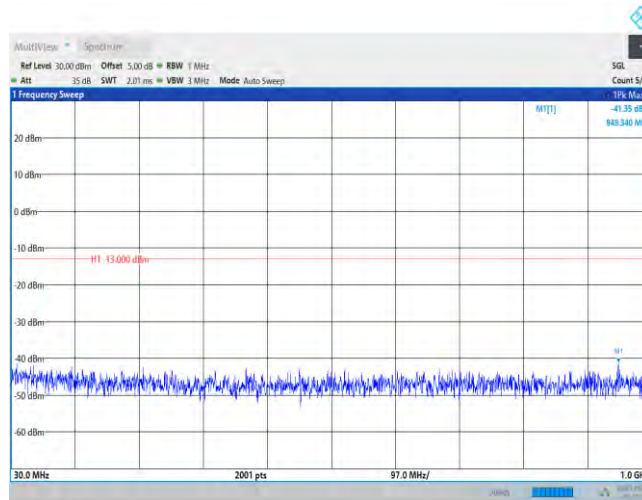
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Band42-20MHz-QPSK-42590-1RB#0-Range2:0.15~30MHz



09:32:32 20.03.2023

Band42-20MHz-QPSK-42590-1RB#0-Range3:30~1000MHz



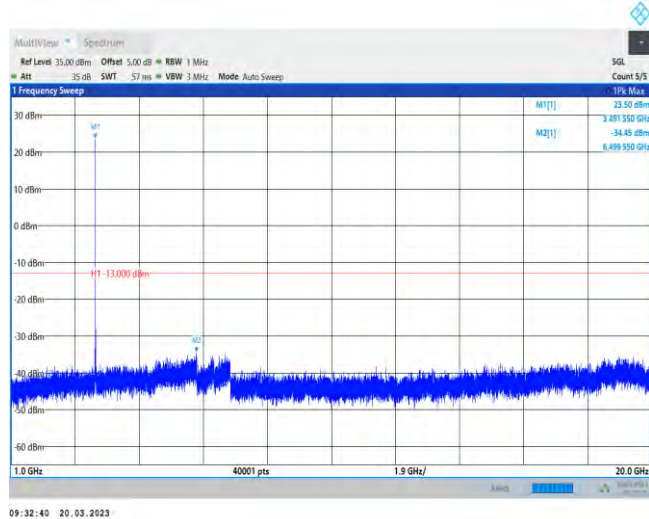
09:32:36 20.03.2023



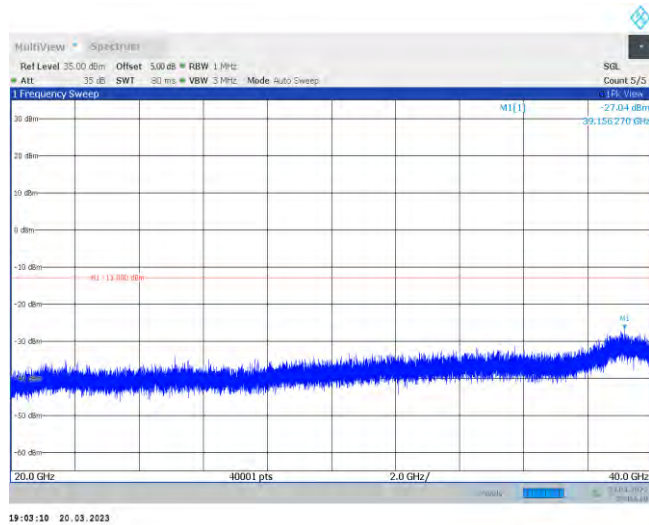
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Band42-20MHz-QPSK-42590-1RB#0-Range4:1000~20000MHz



Band42-20MHz-QPSK-42590-1RB#0-Range5:20000~40000MHz

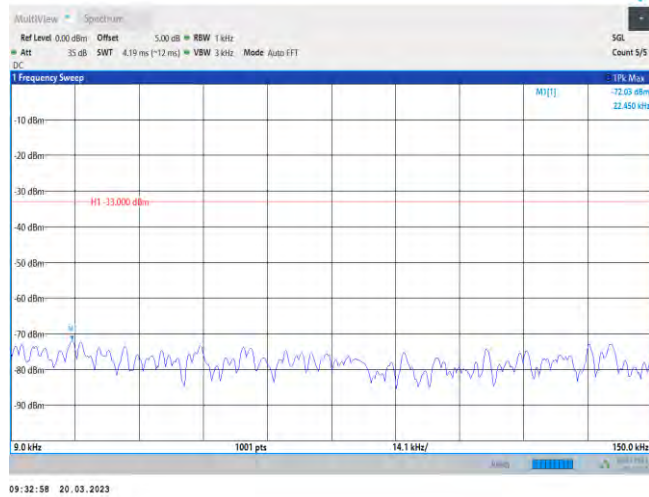


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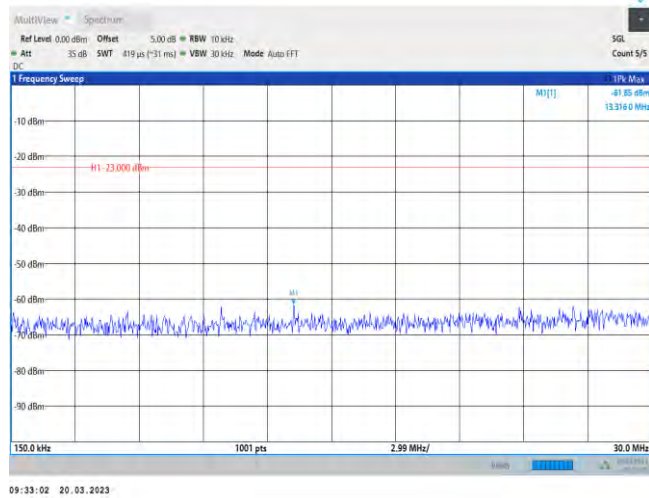
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Band42-20MHz-QPSK-42990-1RB#0-Range1:0.009~0.15MHz



Band42-20MHz-QPSK-42990-1RB#0-Range2:0.15~30MHz

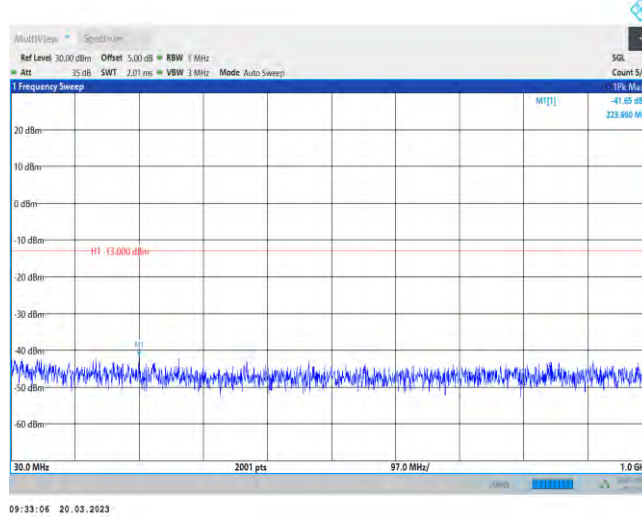


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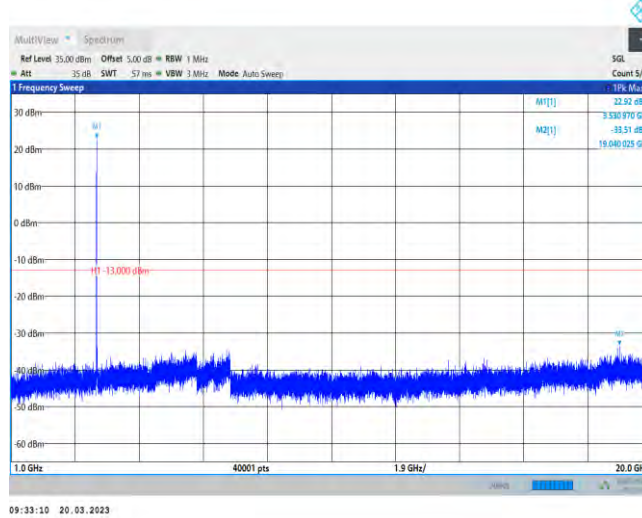
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Band42-20MHz-QPSK-42990-1RB#0-Range3:30~1000MHz



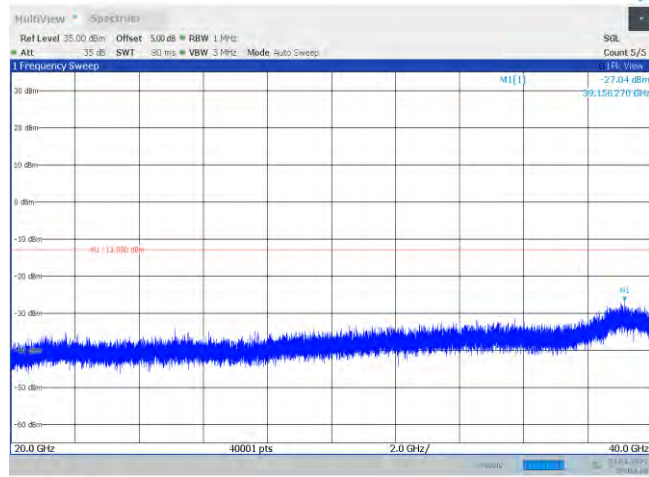
Band42-20MHz-QPSK-42990-1RB#0-Range4:1000~20000MHz



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Band42-20MHz-QPSK-42990-1RB#0-Range5:20000~40000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 42 _20MHz_3450~3550_ TM1

Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6037	43.49	-44.48	34.14	-62.10	-13.00	49.10	179	352	Horizontal
2	6902.1800	41.98	-43.85	35.96	-61.17	-13.00	48.17	217	360	Horizontal
3	9366.0833	40.44	-39.73	38.46	-56.09	-13.00	43.09	148	244	Horizontal
4	10353.2700	36.38	-39.07	38.85	-59.11	-13.00	46.11	229	79	Horizontal
5	13804.3600	35.20	-36.14	39.96	-56.23	-13.00	43.23	265	325	Horizontal
6	17255.4500	34.96	-35.27	38.68	-56.89	-13.00	43.89	173	292	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5156.1667	46.23	-45.29	32.97	-61.36	-13.00	48.36	274	97	Vertical
2	6902.0833	47.04	-43.86	35.96	-56.11	-13.00	43.11	196	114	Vertical
3	9320.5833	39.80	-39.97	38.43	-57.00	-13.00	44.00	251	244	Vertical
4	10353.2700	36.82	-39.07	38.85	-58.67	-13.00	45.67	168	114	Vertical
5	13804.3600	35.11	-36.14	39.96	-56.32	-13.00	43.32	256	79	Vertical
6	17255.4500	35.04	-35.27	38.68	-56.81	-13.00	43.81	233	359	Vertical



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Test Band = LTE Band 42_20MHz_ 3450~3550_TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4843.5	50.61	-45.23	32.44	-57.44	-13.00	44.44	258	64	Horizontal
2	6982.1800	42.58	-43.32	36.06	-59.95	-13.00	46.95	305	245	Horizontal
3	9360.8333	40.37	-39.76	38.46	-56.19	-13.00	43.19	179	195	Horizontal
4	10473.2700	36.39	-38.72	38.93	-58.66	-13.00	45.66	244	357	Horizontal
5	13964.3600	33.84	-35.74	40.11	-57.05	-13.00	44.05	185	64	Horizontal
6	17455.4500	33.87	-35.00	39.05	-57.35	-13.00	44.35	205	260	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5156.1667	45.42	-45.29	32.97	-62.17	-13.00	49.17	285	82	Vertical
2	6982.1800	44.42	-43.32	36.06	-58.11	-13.00	45.11	169	146	Vertical
3	7969	45.74	-42.42	36.97	-54.97	-13.00	41.97	138	212	Vertical
4	10473.2700	36.55	-38.72	38.93	-58.50	-13.00	45.50	256	359	Vertical
5	13964.3600	34.18	-35.74	40.11	-56.71	-13.00	43.71	274	294	Vertical
6	17455.4500	34.17	-35.00	39.05	-57.05	-13.00	44.05	184	3	Vertical



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Test Band = LTE Band 42 _20MHz_3450~3550_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5300.8333	43.49	-44.86	32.89	-63.74	-13.00	50.74	400	115	Horizontal
2	7062.1800	40.03	-43.75	36.24	-62.74	-13.00	49.74	228	82	Horizontal
3	9367.8333	39.67	-39.72	38.47	-56.84	-13.00	43.84	156	295	Horizontal
4	10593.2700	35.64	-38.68	39.05	-59.25	-13.00	46.25	213	245	Horizontal
5	14124.3600	32.80	-35.49	40.20	-57.76	-13.00	44.76	149	34	Horizontal
6	17655.4500	32.49	-33.30	39.89	-56.18	-13.00	43.18	206	328	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4843.5	52.46	-45.23	32.44	-55.59	-13.00	42.59	209	48	Vertical
2	7062.1800	41.19	-43.75	36.24	-61.58	-13.00	48.58	189	360	Vertical
3	9409.25	39.48	-39.61	38.49	-56.90	-13.00	43.90	246	360	Vertical
4	10593.2700	35.78	-38.68	39.05	-59.11	-13.00	46.11	218	259	Vertical
5	14124.3600	33.13	-35.49	40.20	-57.43	-13.00	44.43	277	96	Vertical
6	17655.4500	32.51	-33.30	39.89	-56.16	-13.00	43.16	165	146	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	42590	100RB#0	VL	NT	-6.80	-0.001943	PASS
Band42	20MHz	QPSK	42590	100RB#0	VN	NT	5.80	0.001657	PASS
Band42	20MHz	QPSK	42590	100RB#0	VH	NT	-11.70	-0.003343	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band42	20MHz	QPSK	42590	100RB#0	NV	-30	4.40	0.001257	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	-20	2.10	0.000600	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	0	6.40	0.001829	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	10	3.50	0.001000	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	20	-9.40	-0.002686	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	30	2.00	0.000571	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	40	1.90	0.000543	PASS
Band42	20MHz	QPSK	42590	100RB#0	NV	50	0.60	0.000171	PASS

---End of Attachment---



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