

Appendix B.4

LTE Band 4



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.33	24.26	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.33	24.26	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.3	24.23	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.41	23.34	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.28	24.21	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.46	24.39	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.32	24.25	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.38	23.31	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.41	24.34	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.45	24.38	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.4	24.33	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.39	23.32	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.62	23.55	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.77	23.7	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.62	23.55	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.49	22.42	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.66	23.59	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.62	23.55	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.65	23.58	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.45	22.38	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.67	23.6	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.76	23.69	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.6	23.53	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.53	22.46	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	21.55	23.48	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	21.68	23.61	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	21.55	23.48	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	20.46	22.39	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	21.52	23.45	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	21.64	23.57	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	21.55	23.48	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	20.44	22.37	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	21.63	23.56	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	21.57	23.5	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	21.68	23.61	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	20.45	22.38	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.27	24.2	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.41	24.34	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.31	24.24	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.49	23.42	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.43	24.36	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.48	24.41	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.41	24.34	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.47	23.4	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.37	24.3	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.46	24.39	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.42	24.35	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.46	23.39	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.67	23.6	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.71	23.64	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.63	23.56	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.53	22.46	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.71	23.64	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.78	23.71	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.7	23.63	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.52	22.45	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.72	23.65	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.82	23.75	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.63	23.56	30	PASS



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Band4	3MHz	16QAM	20385	15RB#0	20.6	22.53	30	PASS
Band4	3MHz	64QAM	19965	1RB#0	20.58	22.51	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	20.72	22.65	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	20.53	22.46	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	19.49	21.42	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	20.62	22.55	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	20.69	22.62	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	20.66	22.59	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	19.49	21.42	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	20.58	22.51	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	20.8	22.73	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	20.68	22.61	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	19.53	21.46	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.27	24.2	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.4	24.33	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.25	24.18	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.39	23.32	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.28	24.21	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.34	24.27	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.2	24.13	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.31	23.24	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.26	24.19	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.4	24.33	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.28	24.21	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.42	23.35	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.64	23.57	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.69	23.62	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.51	23.44	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.42	22.35	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.62	23.55	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.58	23.51	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.5	23.43	30	PASS



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Band4	5MHz	16QAM	20175	25RB#0	20.38	22.31	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.65	23.58	30	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.66	23.59	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.54	23.47	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.41	22.34	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	20.49	22.42	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	20.68	22.61	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	20.52	22.45	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	19.39	21.32	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	20.48	22.41	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	20.58	22.51	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	20.45	22.38	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	19.4	21.33	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	20.63	22.56	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	20.56	22.49	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	20.53	22.46	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	19.5	21.43	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	21.93	23.86	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.33	24.26	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.08	24.01	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.38	23.31	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	21.98	23.91	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.32	24.25	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.12	24.05	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.35	23.28	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	21.94	23.87	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.35	24.28	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.19	24.12	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.35	23.28	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.21	23.14	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.68	23.61	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.28	23.21	30	PASS



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Band4	10MHz	16QAM	20175	1RB#0	21.53	23.46	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.67	23.6	30	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.5	23.43	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.31	22.24	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.58	23.51	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.84	23.77	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.41	23.34	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.42	22.35	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	20.07	22	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	20.54	22.47	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	20.22	22.15	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	19.4	21.33	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	20.22	22.15	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	20.48	22.41	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	20.35	22.28	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	19.38	21.31	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	20.16	22.09	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	20.51	22.44	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	20.41	22.34	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	19.4	21.33	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	21.99	23.92	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.21	24.14	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.17	24.1	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.28	23.21	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.05	23.98	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.37	24.3	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.22	24.15	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.42	23.35	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.03	23.96	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.3	24.23	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.33	24.26	30	PASS



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Band4	15MHz	QPSK	20325	75RB#0	21.41	23.34	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.43	23.36	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.56	23.49	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.57	23.5	30	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.37	22.3	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.49	23.42	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.75	23.68	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.66	23.59	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.33	22.26	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.36	23.29	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.74	23.67	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.5	23.43	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.49	22.42	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	20.28	22.21	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	20.39	22.32	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	20.51	22.44	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	19.39	21.32	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	20.29	22.22	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	20.55	22.48	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	20.48	22.41	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	19.39	21.32	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	20.26	22.19	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	20.57	22.5	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	20.52	22.45	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	19.45	21.38	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	21.93	23.86	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.29	24.22	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.04	23.97	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.35	23.28	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.04	23.97	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.27	24.2	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.04	23.97	30	PASS



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Band4	20MHz	QPSK	20175	100RB#0	21.44	23.37	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	21.97	23.9	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.27	24.2	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.06	23.99	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.29	23.22	30	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.33	23.26	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.64	23.57	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.42	23.35	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.3	22.23	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.4	23.33	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.72	23.65	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.45	23.38	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.37	22.3	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.23	23.16	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.67	23.6	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.48	23.41	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.33	22.26	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	20.06	21.99	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	20.5	22.43	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	20.29	22.22	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	19.43	21.36	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	20.21	22.14	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	20.42	22.35	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	20.34	22.27	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	19.35	21.28	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	20.11	22.04	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	20.66	22.59	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	20.29	22.22	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	19.37	21.3	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

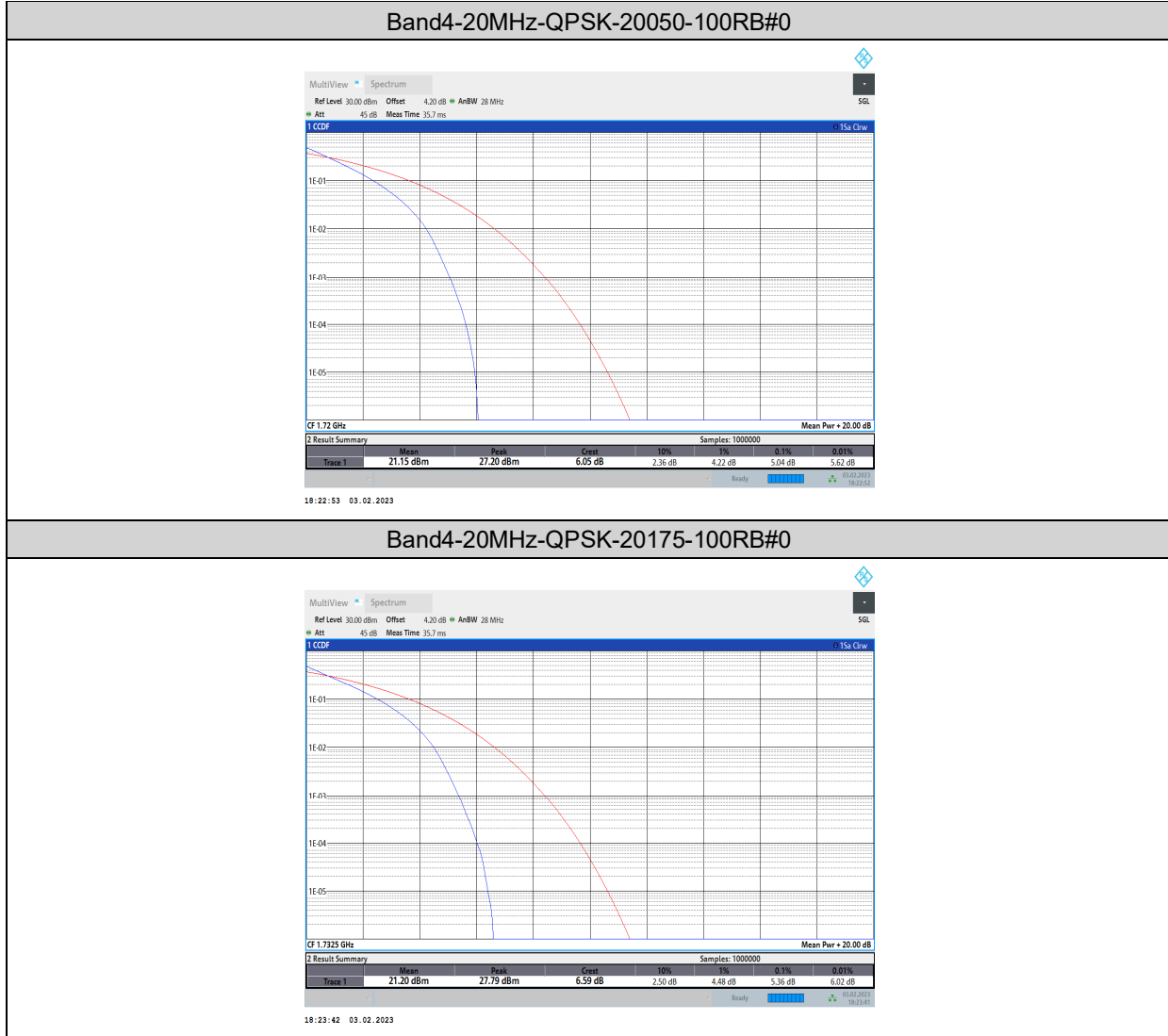
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	5.04	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.36	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.28	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.92	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.08	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.04	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.54	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.62	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.58	13	PASS



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Test Graphs

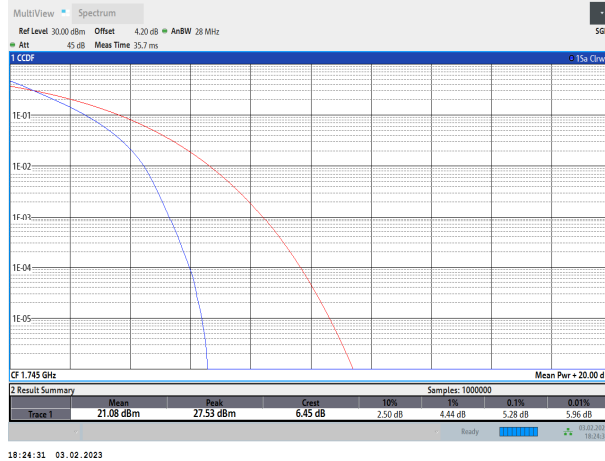


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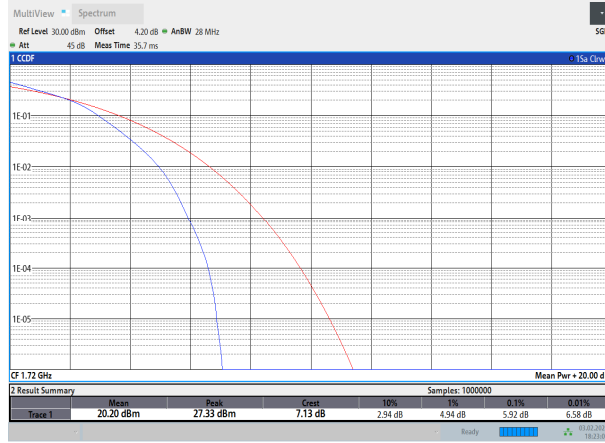
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Band4-20MHz-QPSK-20300-100RB#0



18:24:31 03.02.2023

Band4-20MHz-16QAM-20050-100RB#0



18:23:09 03.02.2023

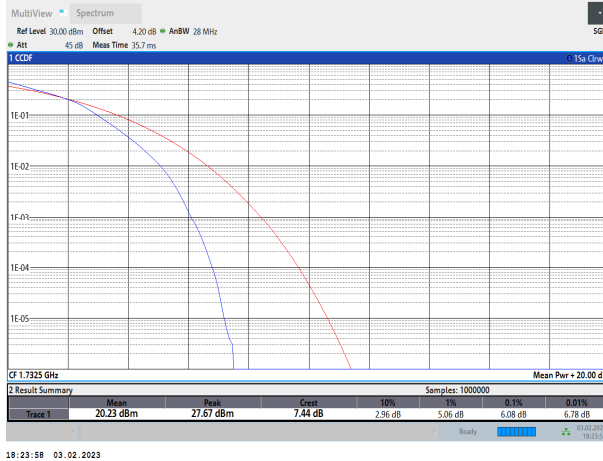


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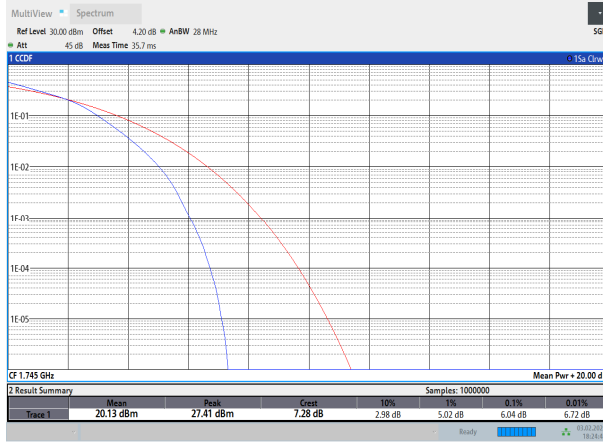
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Band4-20MHz-16QAM-20175-100RB#0



18:23:58 03.02.2023

Band4-20MHz-16QAM-20300-100RB#0



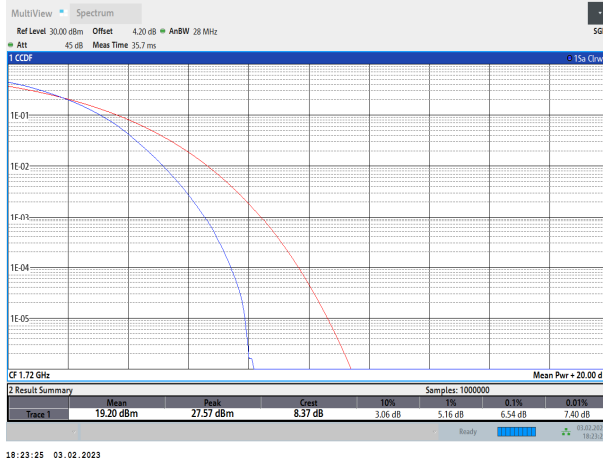
18:24:47 03.02.2023



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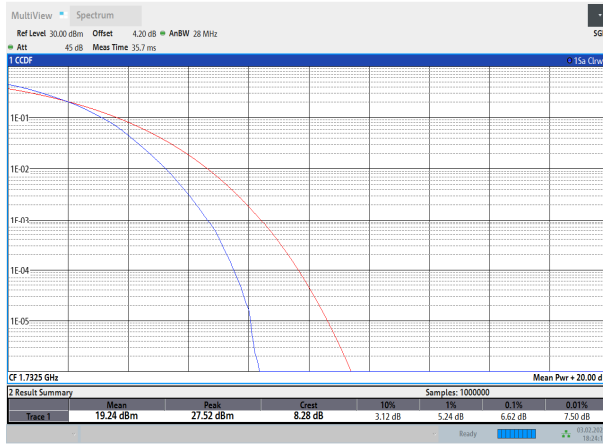
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Band4-20MHz-64QAM-20050-100RB#0



18:23:25 03.02.2023

Band4-20MHz-64QAM-20175-100RB#0



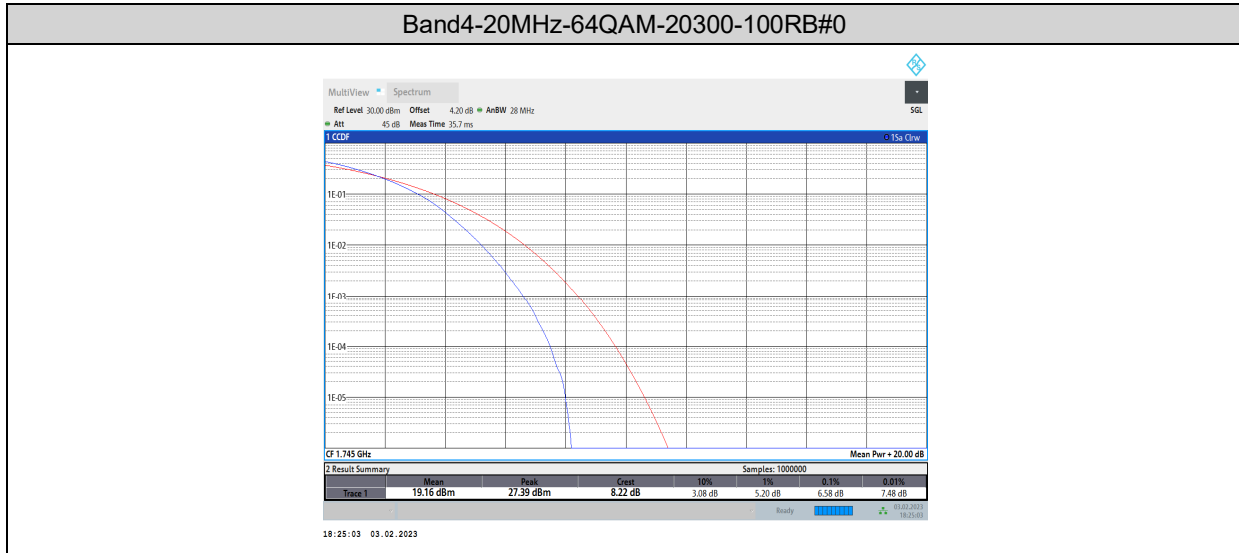
18:24:14 03.02.2023



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.092	1.25	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.092	1.25	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.084	1.23	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.095	1.25	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.096	1.25	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.093	1.24	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.092	1.25	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.09	1.24	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.091	1.24	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.693	2.99	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.693	2.98	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.693	2.99	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.687	2.99	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.684	2.99	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.686	2.99	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.686	2.96	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.688	2.96	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.687	2.96	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.468	4.87	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.469	4.88	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.89	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.467	4.92	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.466	4.89	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.465	4.94	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.479	4.89	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.481	4.90	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.475	4.92	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.917	9.68	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.928	9.64	PASS



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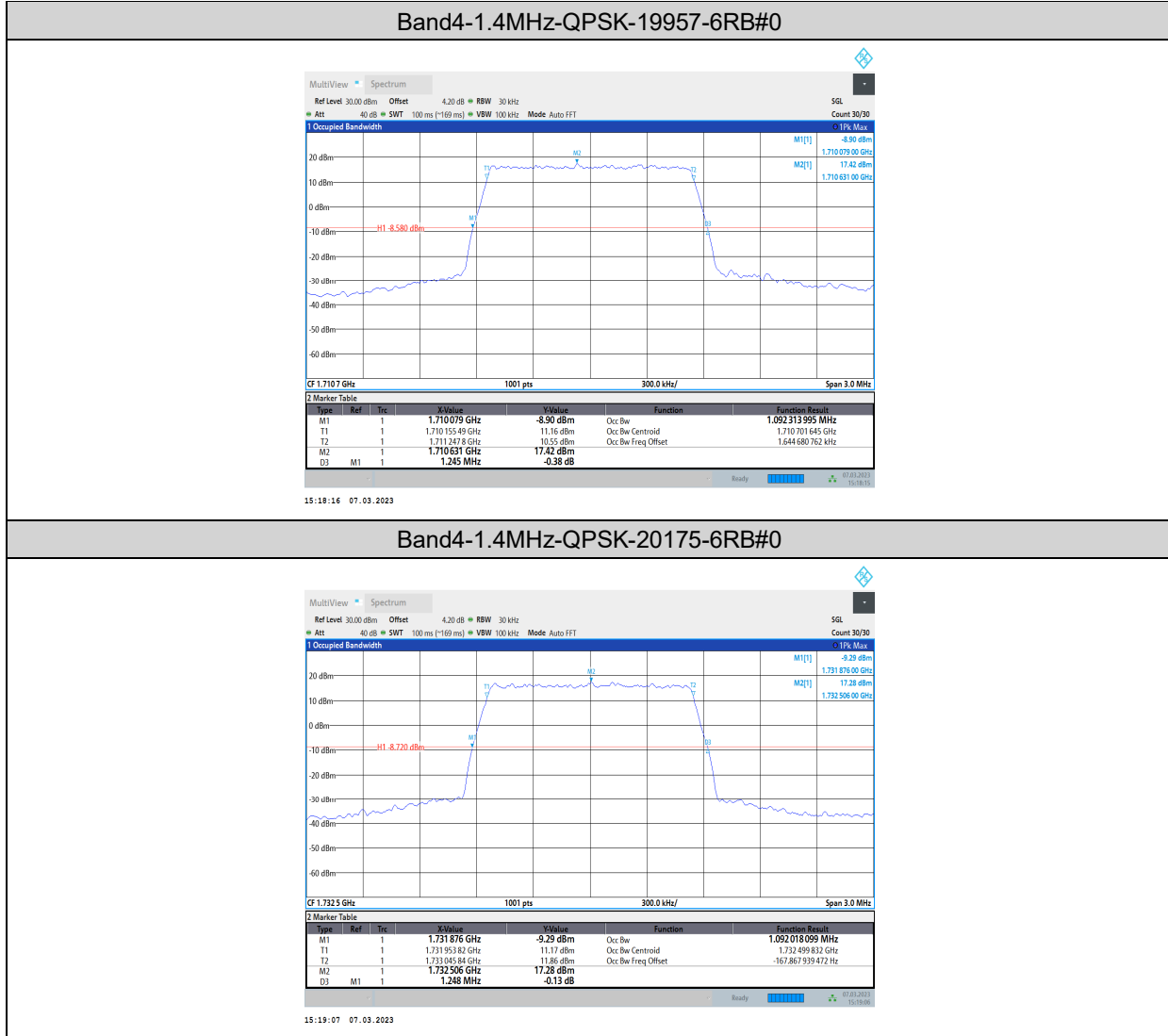
Band4	10MHz	QPSK	20350	50RB#0	8.925	9.60	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.91	9.60	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.902	9.66	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.905	9.60	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.923	9.64	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.92	9.62	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.92	9.62	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.468	14.79	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.443	14.70	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.465	14.79	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.446	14.70	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.443	14.85	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.452	14.70	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.433	14.79	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.433	14.76	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.434	14.79	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.913	19.44	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.925	19.48	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.907	19.52	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.854	19.32	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.874	19.40	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.897	19.48	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.869	19.56	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.888	19.48	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.874	19.44	PASS



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Test Graphs

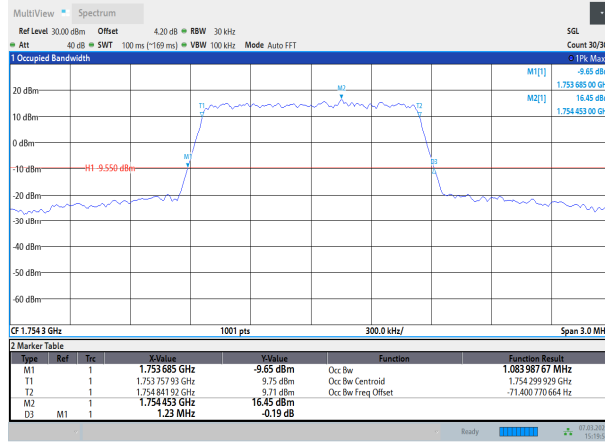


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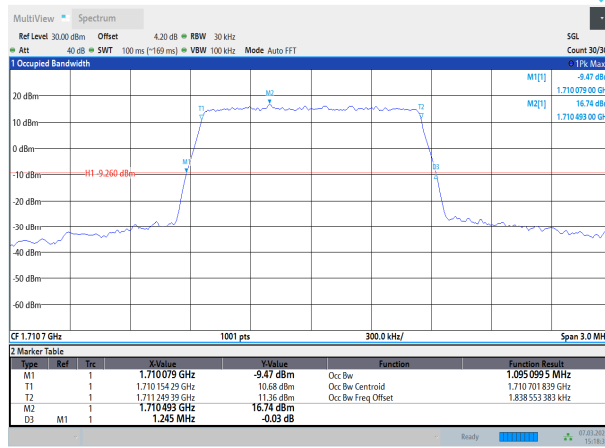
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Band4-1.4MHz-QPSK-20393-6RB#0



Band4-1.4MHz-16QAM-19957-6RB#0

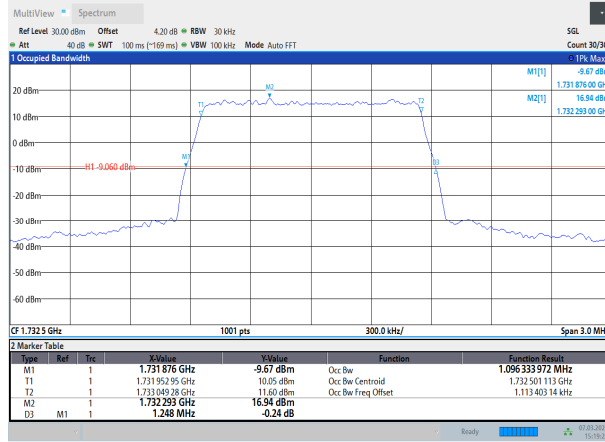


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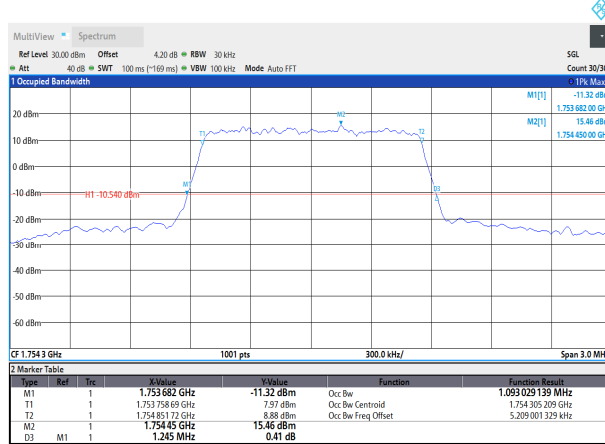
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Band4-1.4MHz-16QAM-20175-6RB#0



15:19:24 07.03.2023

Band4-1.4MHz-16QAM-20393-6RB#0



15:20:16 07.03.2023

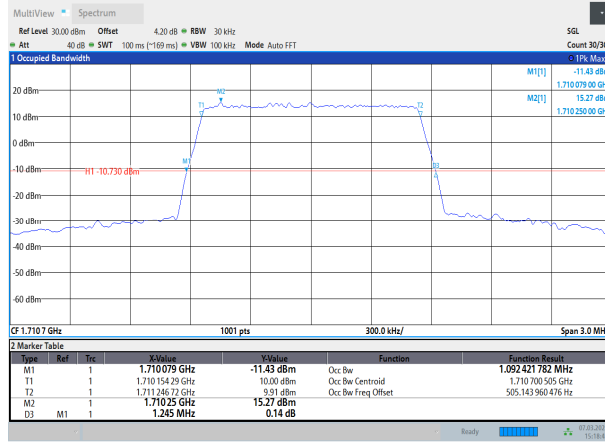


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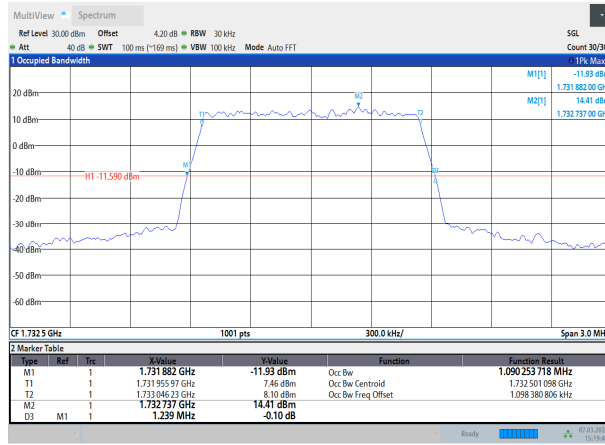
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Band4-1.4MHz-64QAM-19957-6RB#0



Band4-1.4MHz-64QAM-20175-6RB#0

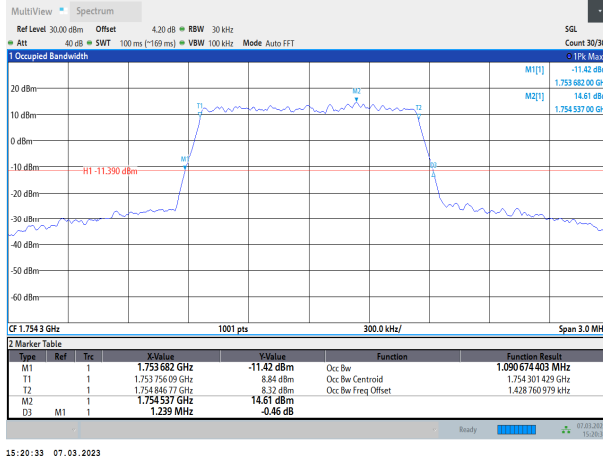


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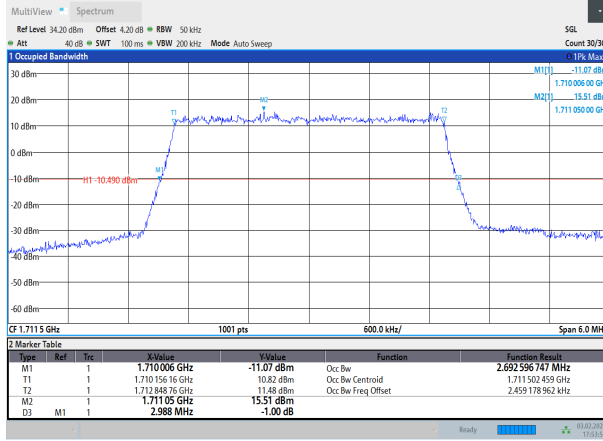
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Band4-1.4MHz-64QAM-20393-6RB#0



15:20:33 07.03.2023

Band4-3MHz-QPSK-19965-15RB#0



17:53:54 03.02.2023

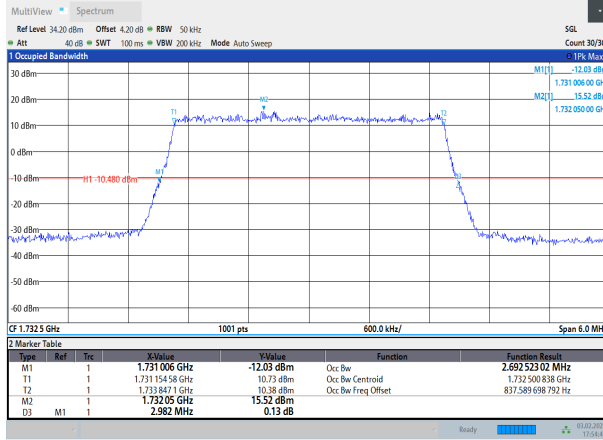


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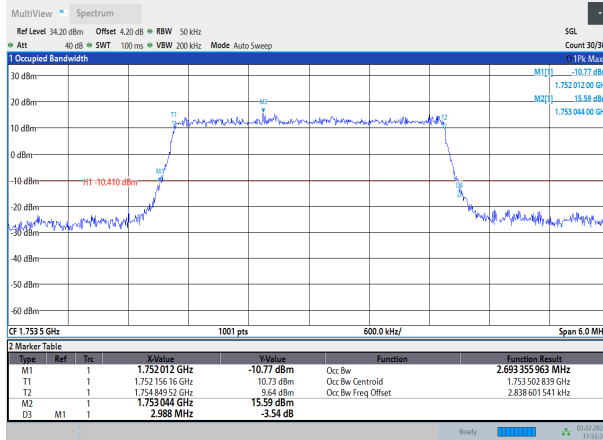
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Band4-3MHz-QPSK-20175-15RB#0



17:54:43 03.02.2023

Band4-3MHz-QPSK-20385-15RB#0



17:55:33 03.02.2023

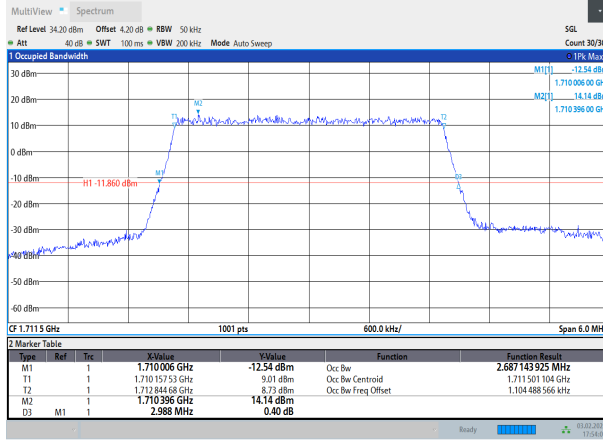


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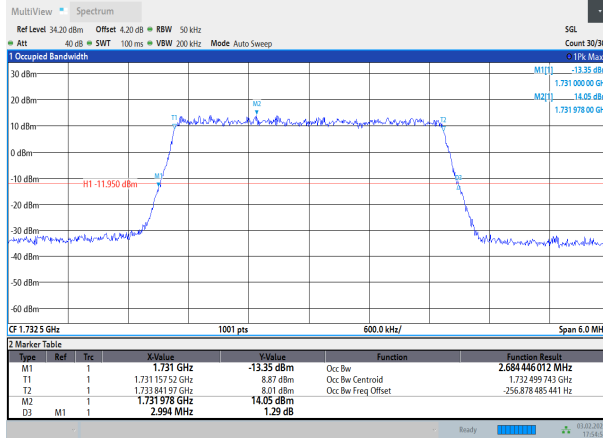
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Band4-3MHz-16QAM-19965-15RB#0



17:54:10 03.02.2023

Band4-3MHz-16QAM-20175-15RB#0



17:54:59 03.02.2023

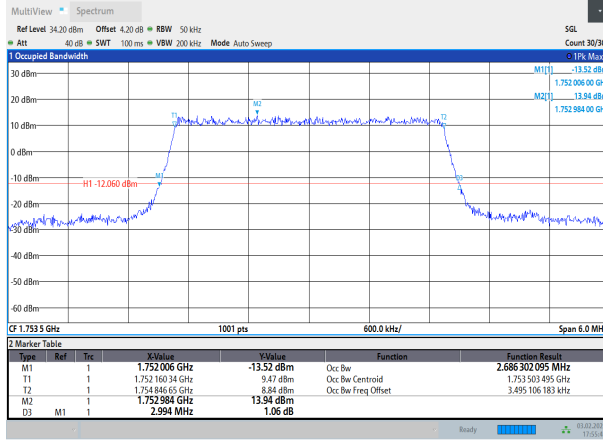


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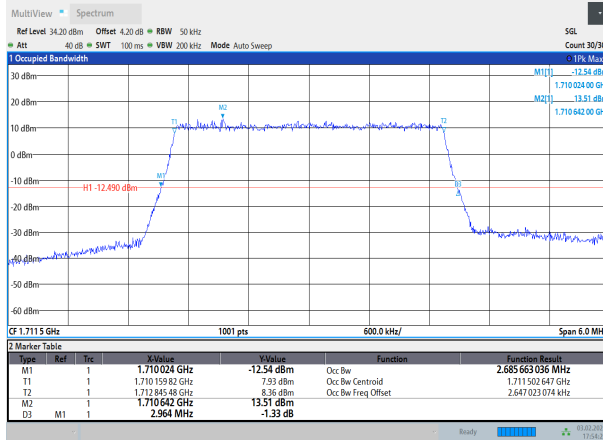
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Band4-3MHz-16QAM-20385-15RB#0



17:55:49 03.02.2023

Band4-3MHz-64QAM-19965-15RB#0



17:54:26 03.02.2023

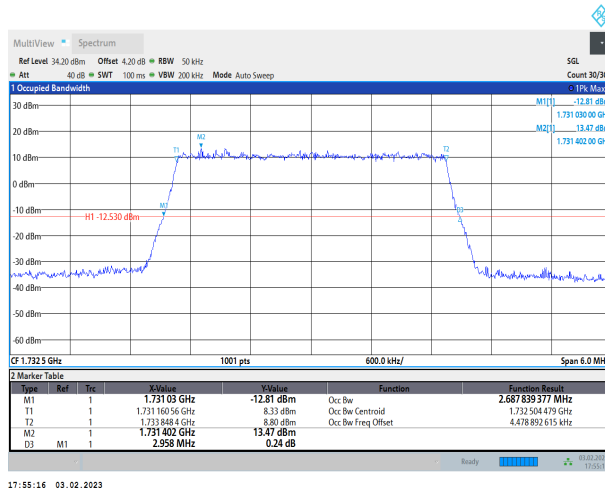


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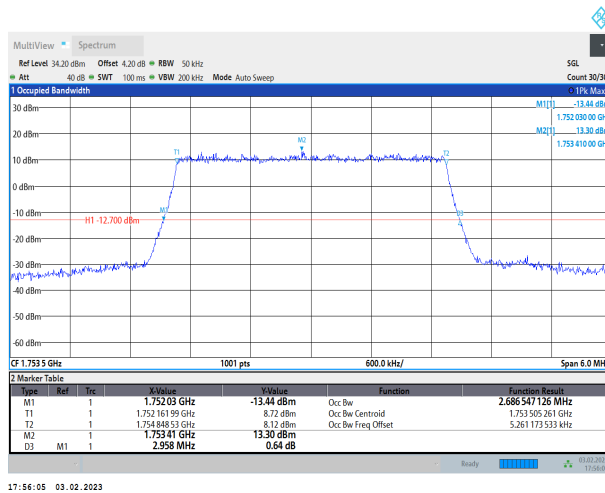
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Band4-3MHz-64QAM-20175-15RB#0



Band4-3MHz-64QAM-20385-15RB#0

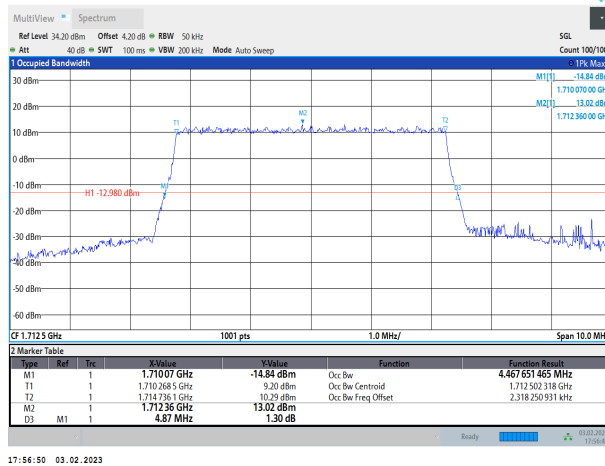


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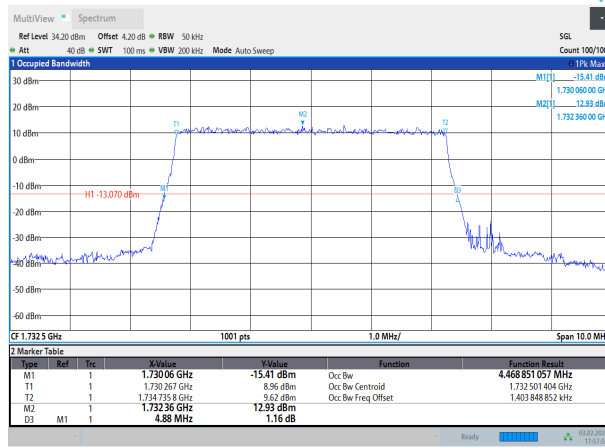
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Band4-5MHz-QPSK-19975-25RB#0



17:56:50 03.02.2023

Band4-5MHz-QPSK-20175-25RB#0



17:58:00 03.02.2023

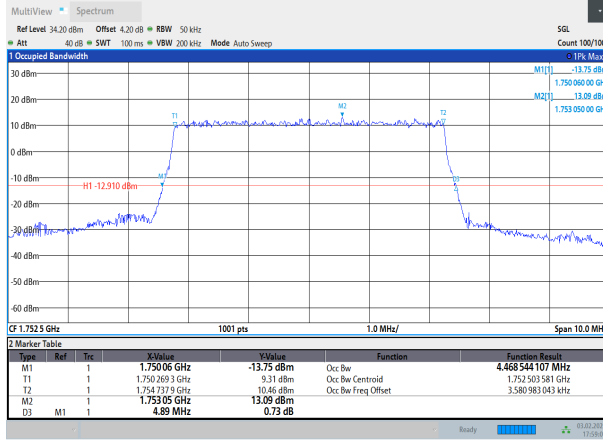


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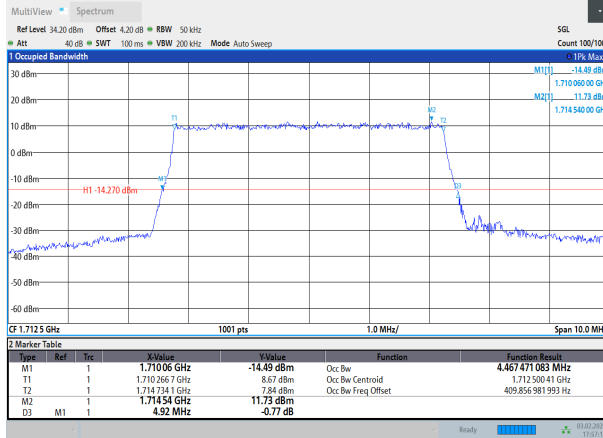
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Band4-5MHz-QPSK-20375-25RB#0



17:59:09 03.02.2023

Band4-5MHz-16QAM-19975-25RB#0



17:57:13 03.02.2023

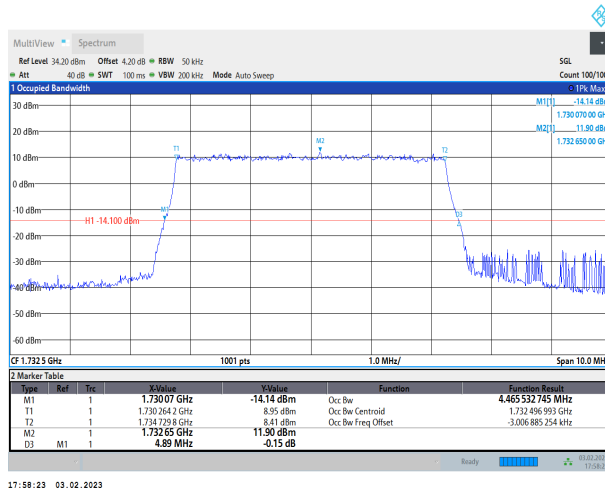


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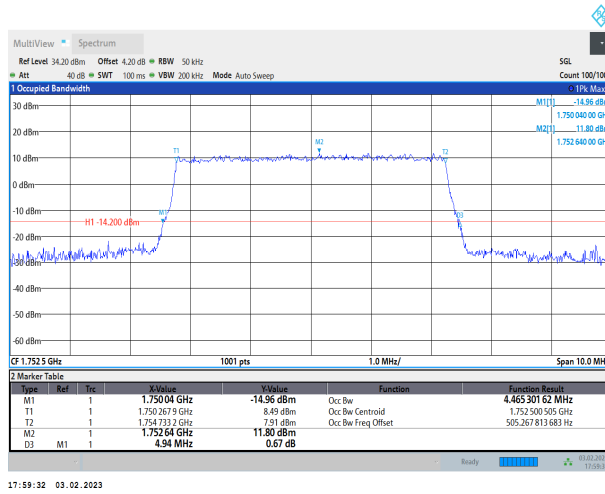
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Band4-5MHz-16QAM-20375-25RB#0

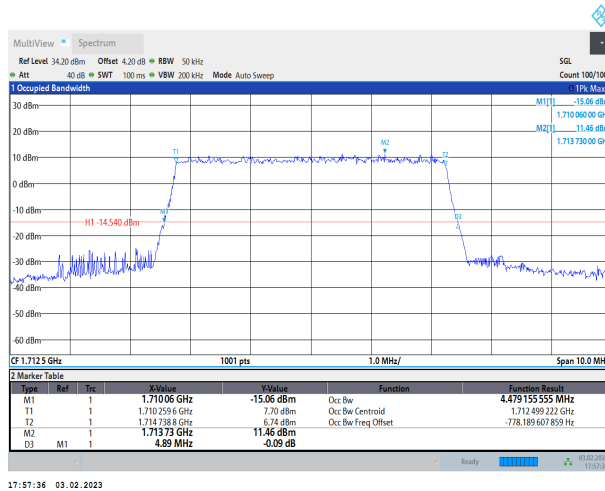


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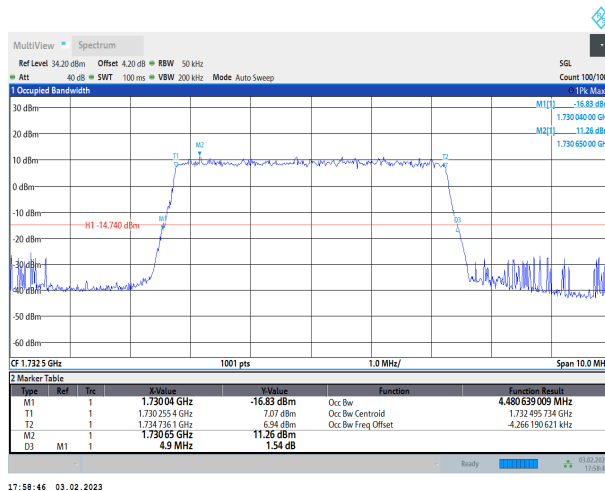
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Band4-5MHz-64QAM-19975-25RB#0



Band4-5MHz-64QAM-20175-25RB#0

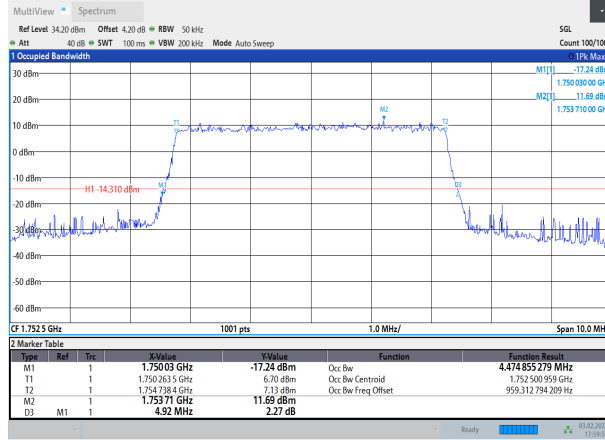


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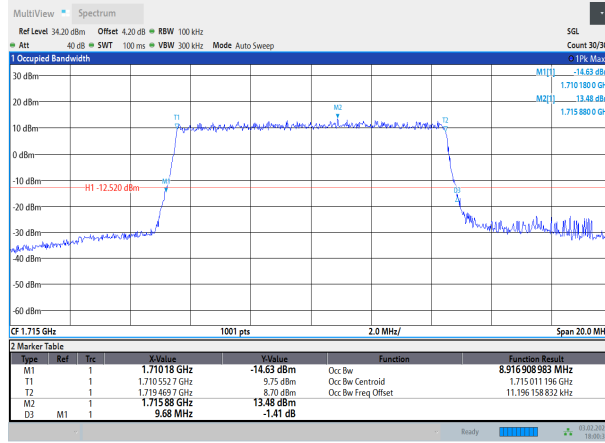
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Band4-5MHz-64QAM-20375-25RB#0



Band4-10MHz-QPSK-20000-50RB#0

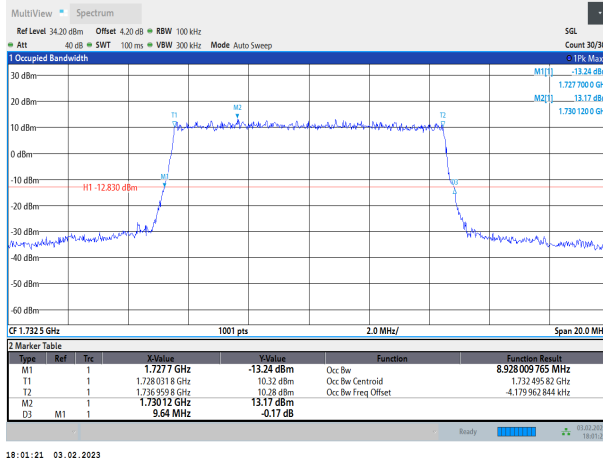


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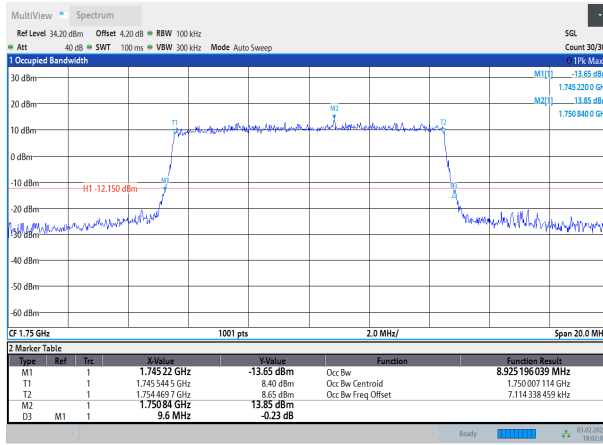
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Band4-10MHz-QPSK-20175-50RB#0



18:01:21 03.02.2023

Band4-10MHz-QPSK-20350-50RB#0



18:02:09 03.02.2023

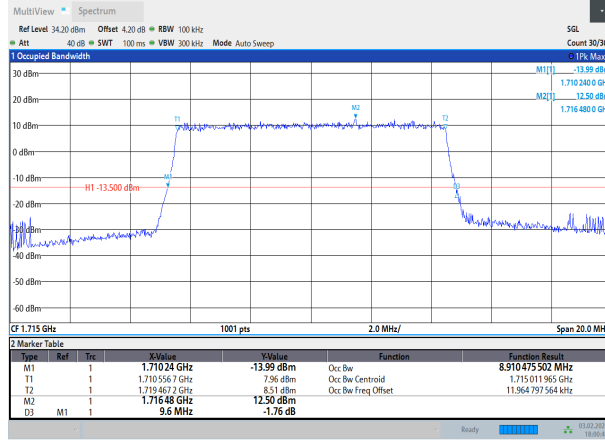


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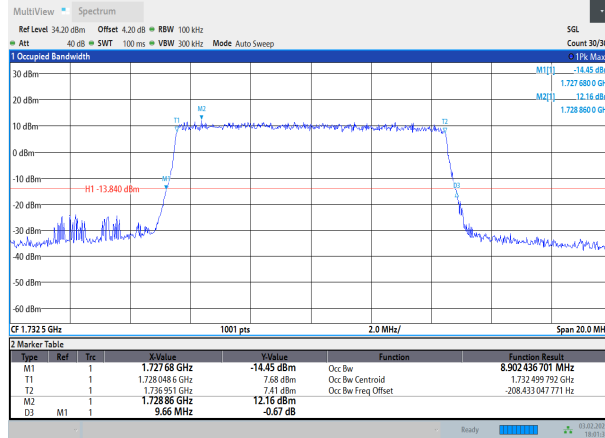
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Band4-10MHz-16QAM-20000-50RB#0



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Band4-10MHz-16QAM-20175-50RB#0



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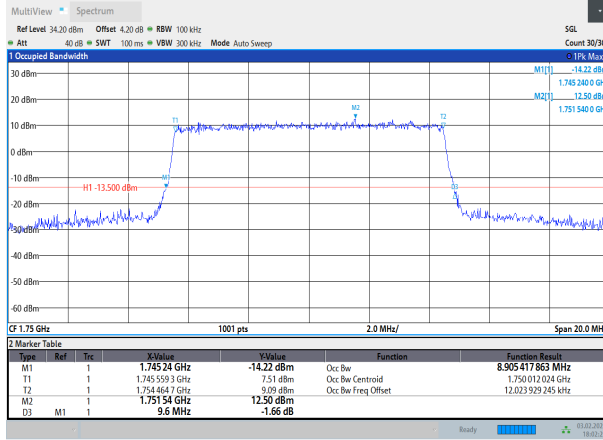


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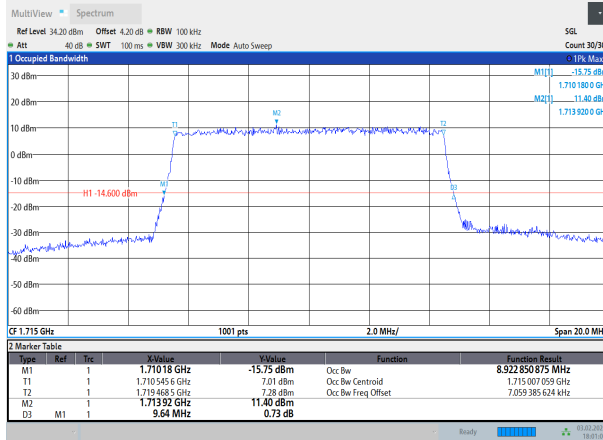
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Band4-10MHz-16QAM-20350-50RB#0



18:02:25 03.02.2023

Band4-10MHz-64QAM-20000-50RB#0



18:01:04 03.02.2023

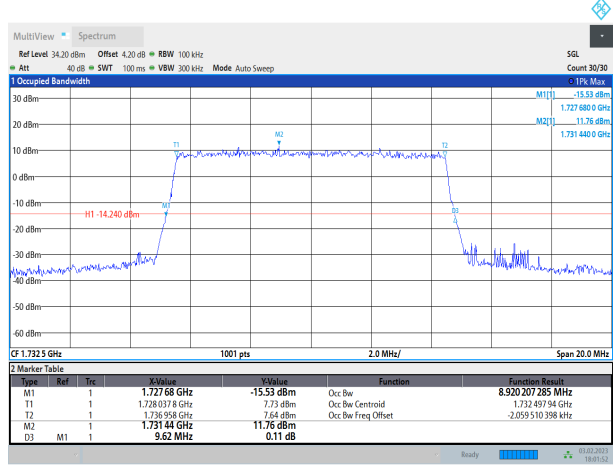


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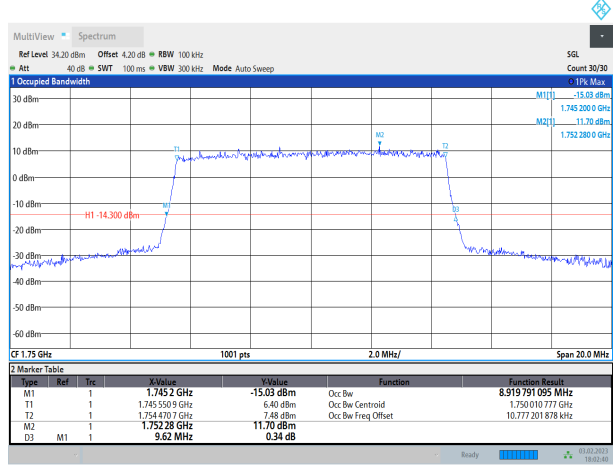
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Band4-10MHz-64QAM-20175-50RB#0



18:01:52 03.02.2023

Band4-10MHz-64QAM-20350-50RB#0



18:02:41 03.02.2023

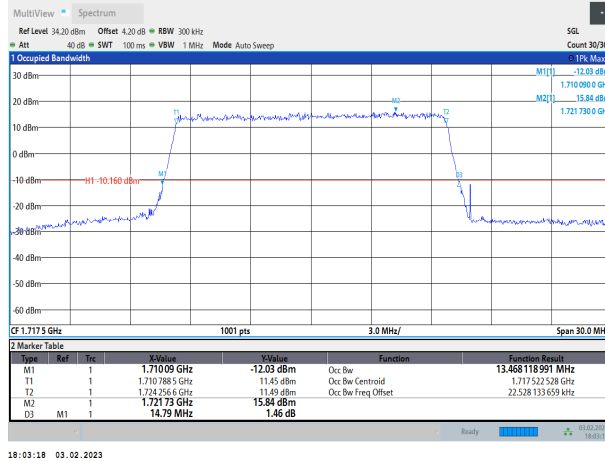


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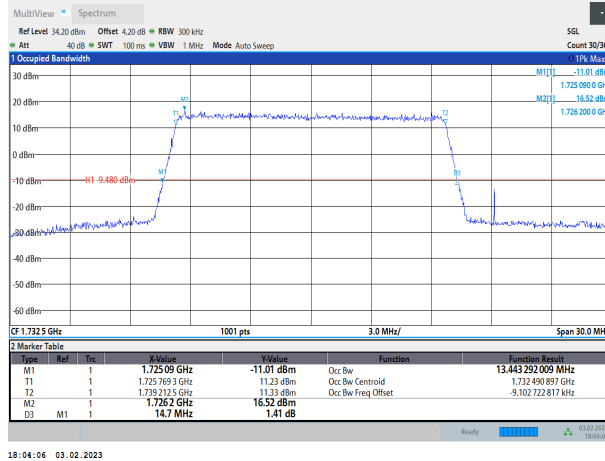
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Band4-15MHz-QPSK-20025-75RB#0



Band4-15MHz-QPSK-20175-75RB#0

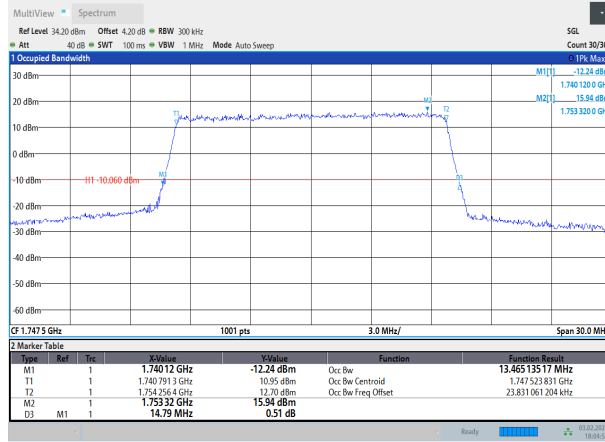


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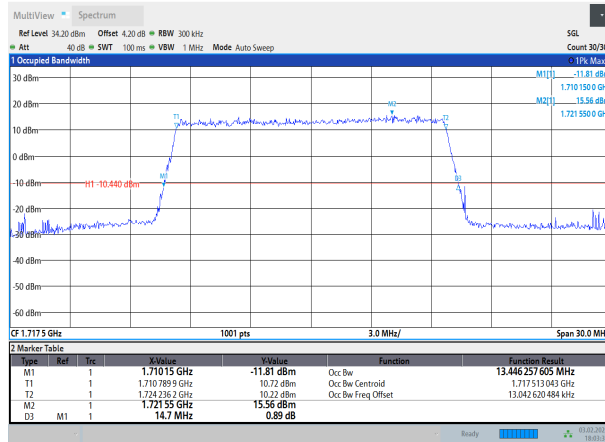
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Band4-15MHz-QPSK-20325-75RB#0



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Band4-15MHz-16QAM-20025-75RB#0



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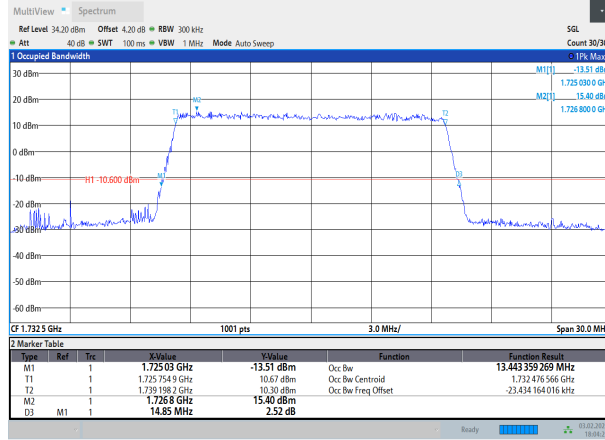


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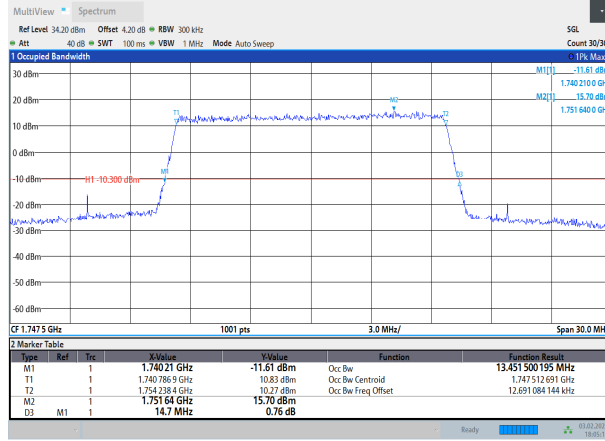
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18:04:22 03.02.2023

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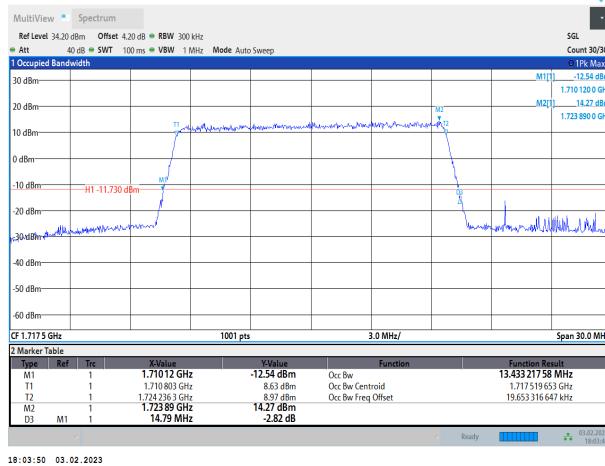


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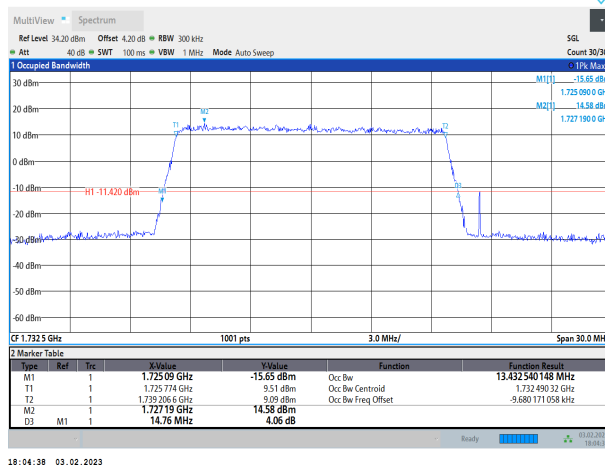
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Band4-15MHz-64QAM-20175-75RB#0

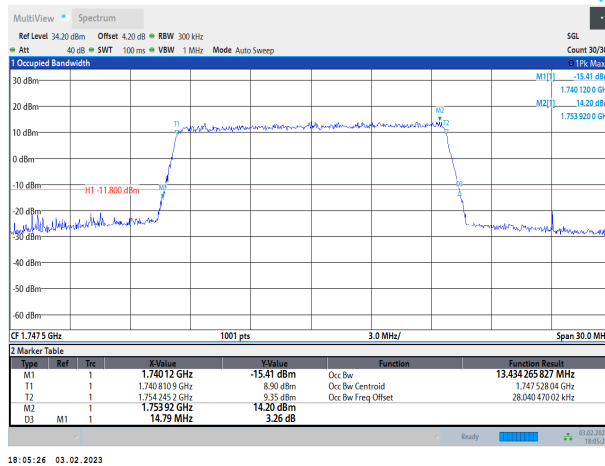


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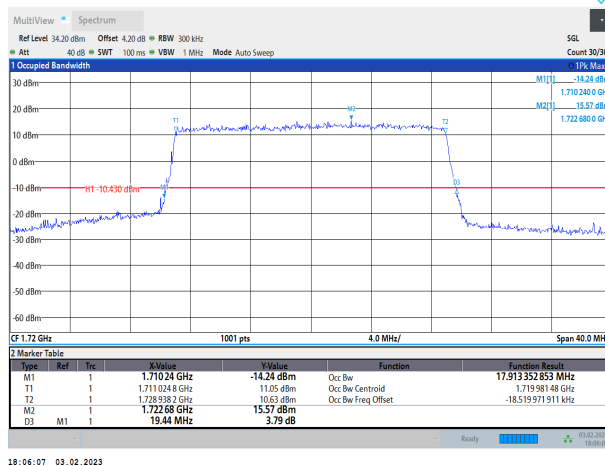
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Band4-15MHz-64QAM-20325-75RB#0



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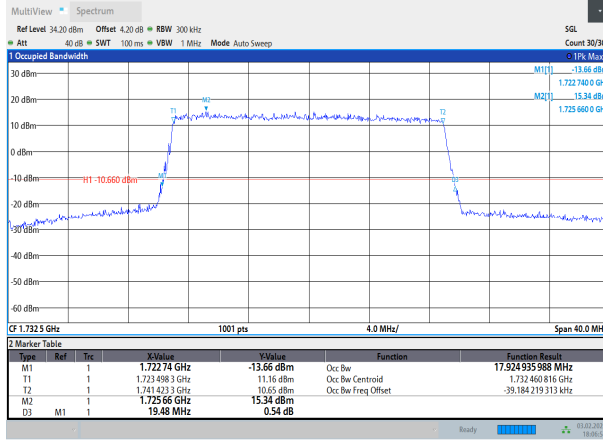


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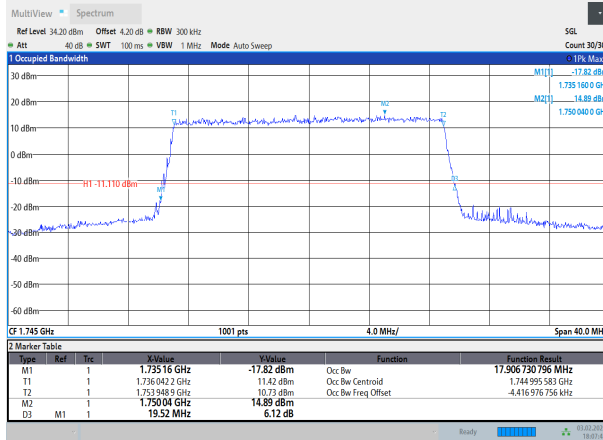
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Band4-20MHz-QPSK-20175-100RB#0



18:04:55 03.02.2023

Band4-20MHz-QPSK-20300-100RB#0



18:07:43 03.02.2023

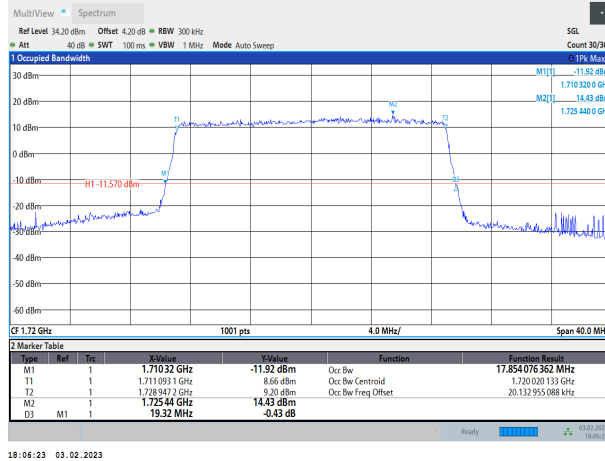


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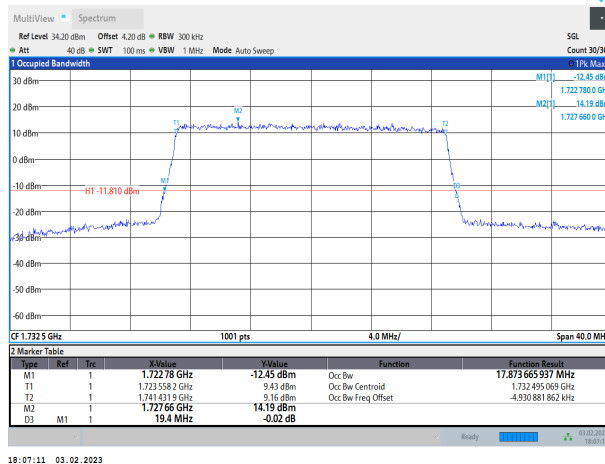
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Band4-20MHz-16QAM-20050-100RB#0



Band4-20MHz-16QAM-20175-100RB#0

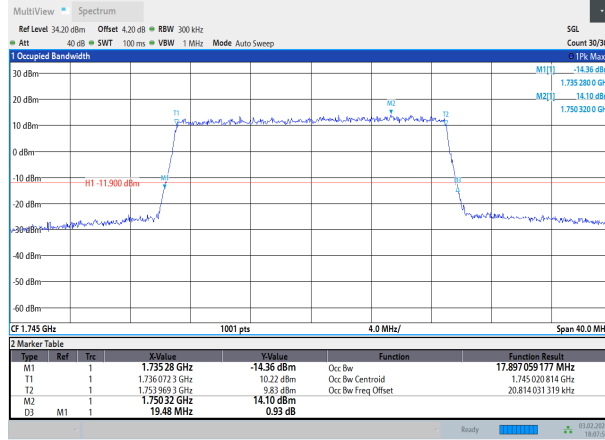


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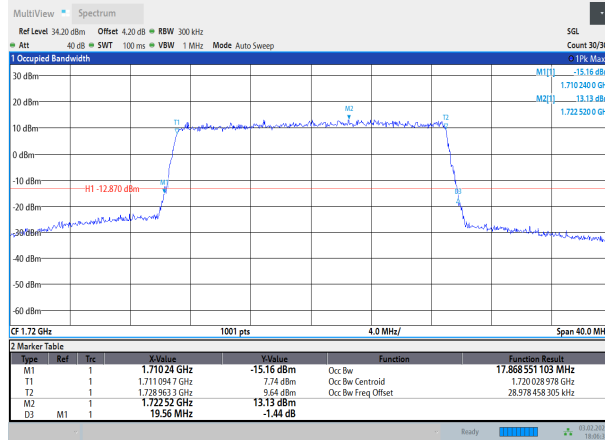
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Band4-20MHz-16QAM-20300-100RB#0



18:07:59 03.02.2023

Band4-20MHz-64QAM-20050-100RB#0



18:06:39 03.02.2023

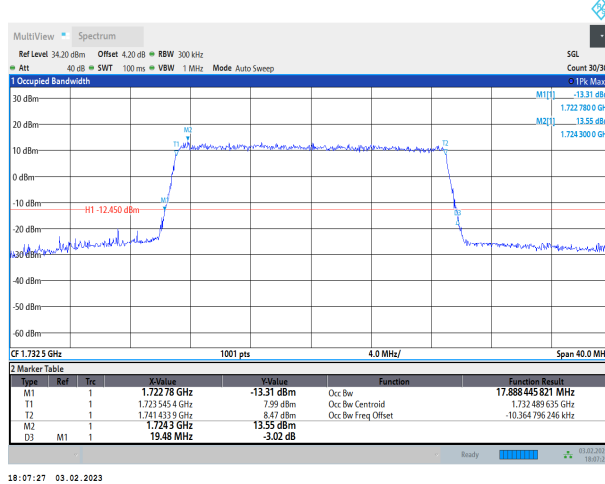


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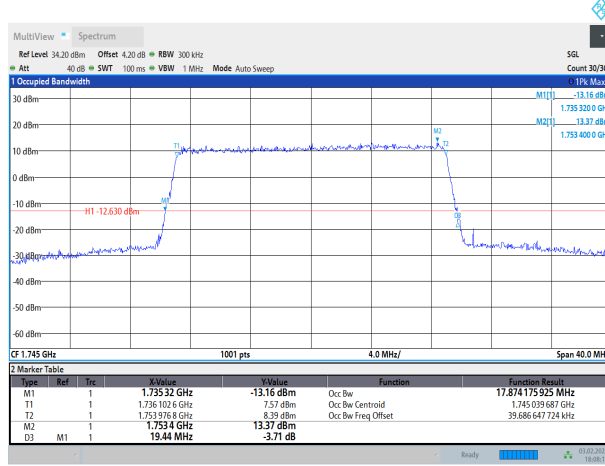
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Band4-20MHz-64QAM-20175-100RB#0



18:07:27 03.02.2023

Band4-20MHz-64QAM-20300-100RB#0



18:08:15 03.02.2023



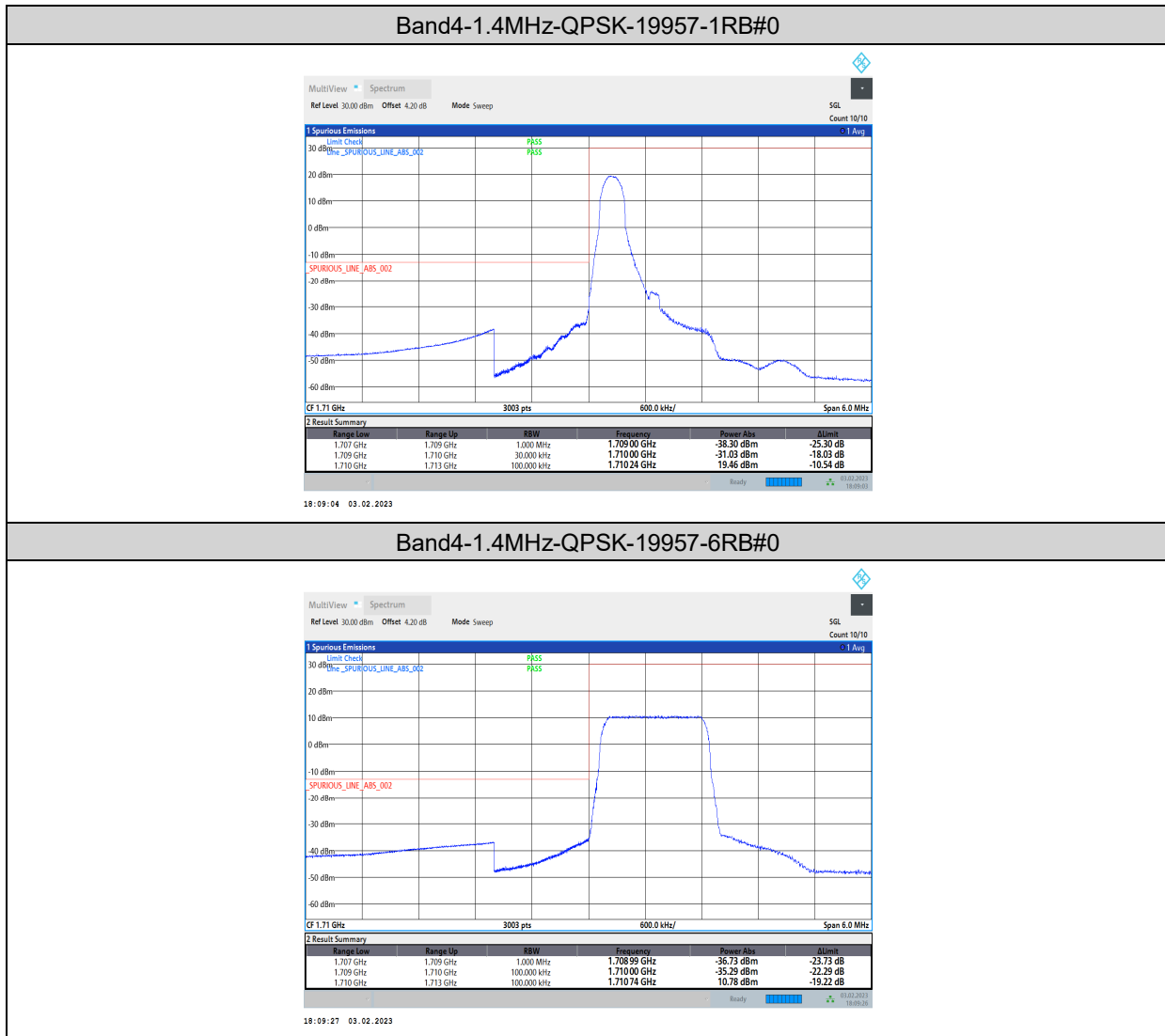
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Band Edge

Test Graphs

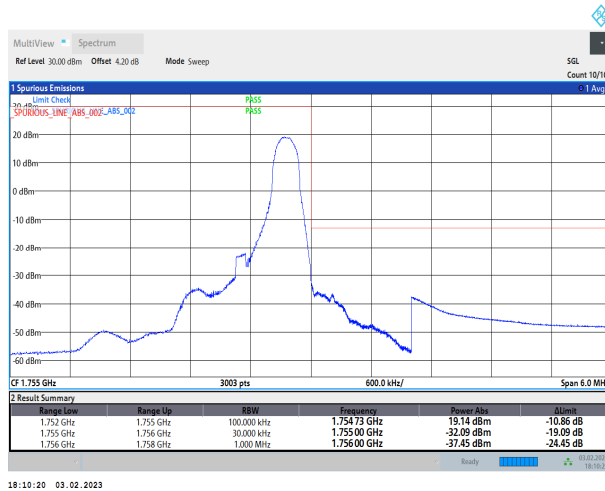


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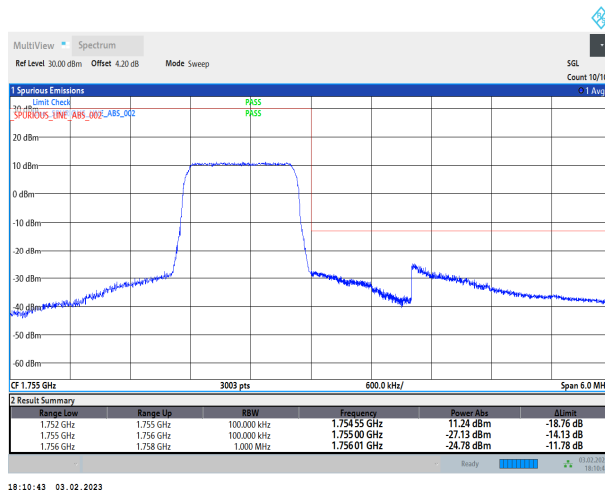
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Band4-1.4MHz-QPSK-20393-1RB#5



Band4-1.4MHz-QPSK-20393-6RB#0

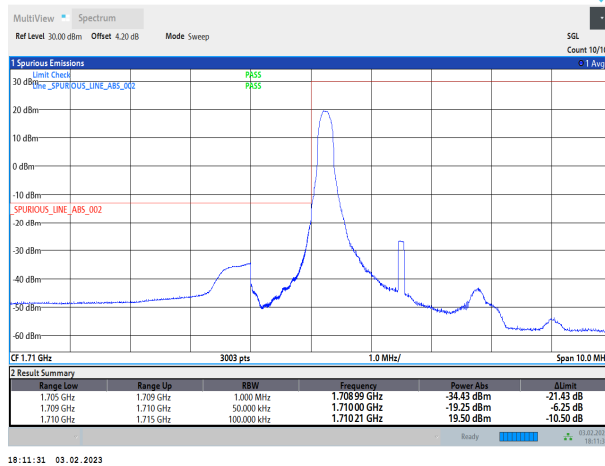


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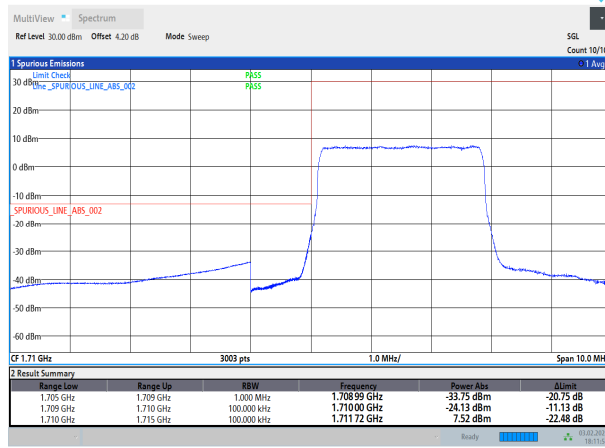
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Band4-3MHz-QPSK-19965-1RB#0



18:11:31 03.02.2023

Band4-3MHz-QPSK-19965-15RB#0



18:11:55 03.02.2023

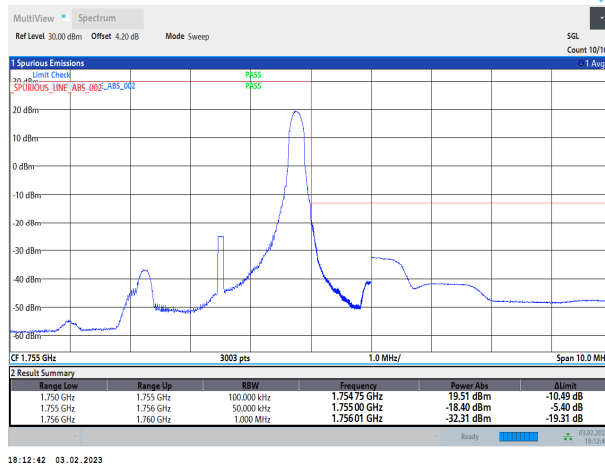


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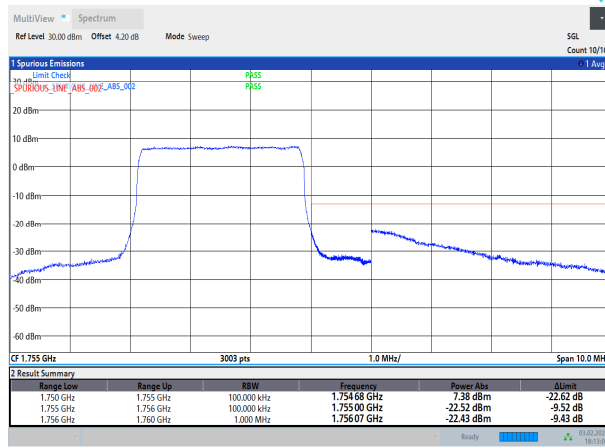
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Band4-3MHz-QPSK-20385-1RB#14



18:12:42 03.02.2023

Band4-3MHz-QPSK-20385-15RB#0



18:13:05 03.02.2023

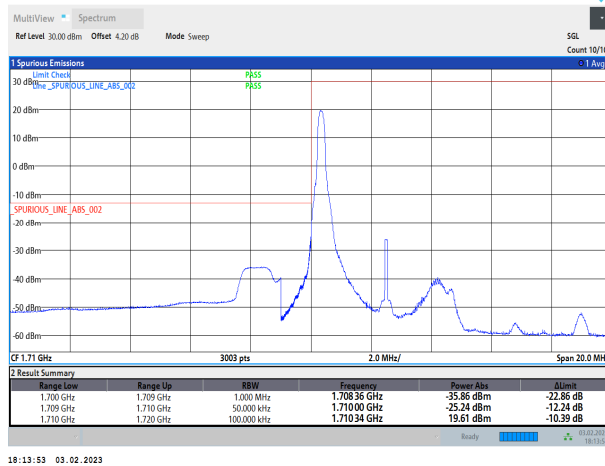


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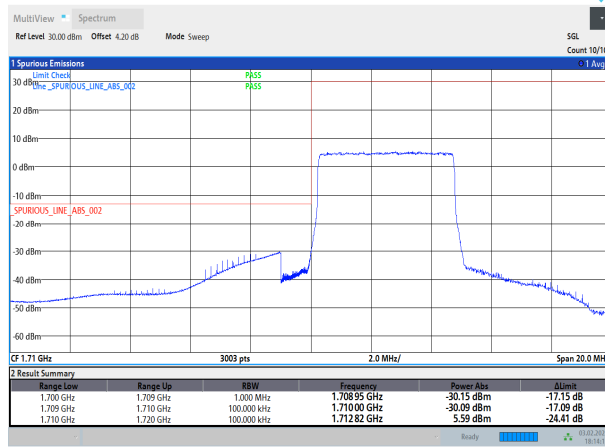
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18:13:53 03.02.2023

Band4-5MHz-QPSK-19975-25RB#0



18:14:15 03.02.2023

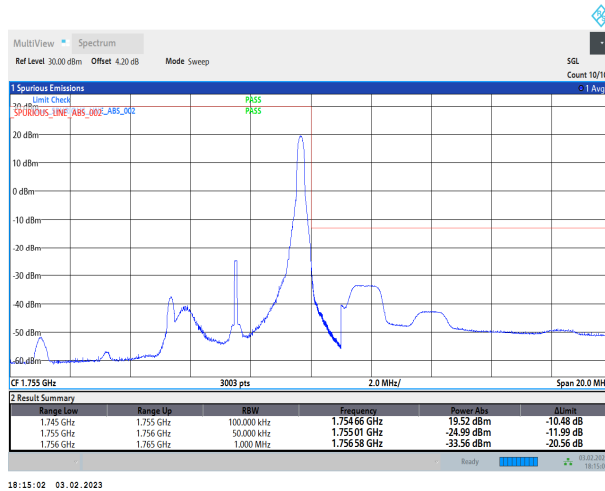


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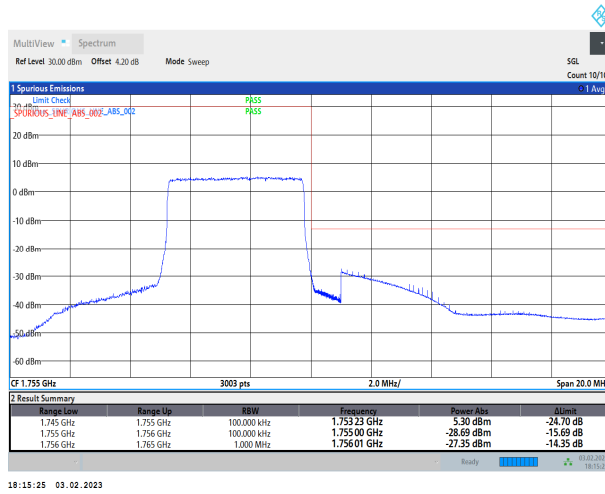
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Band4-5MHz-QPSK-20375-1RB#24



Band4-5MHz-QPSK-20375-25RB#0

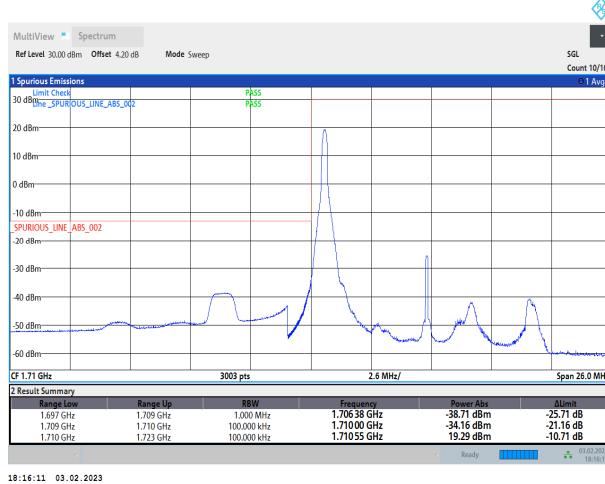


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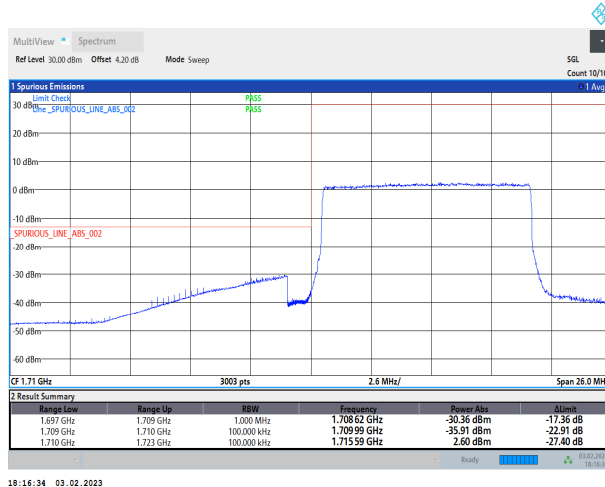
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Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0

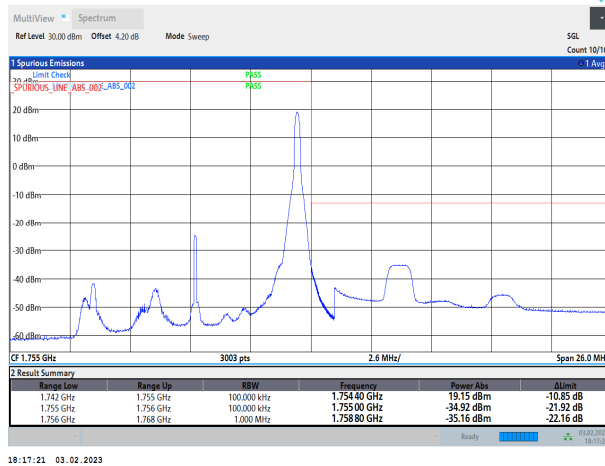


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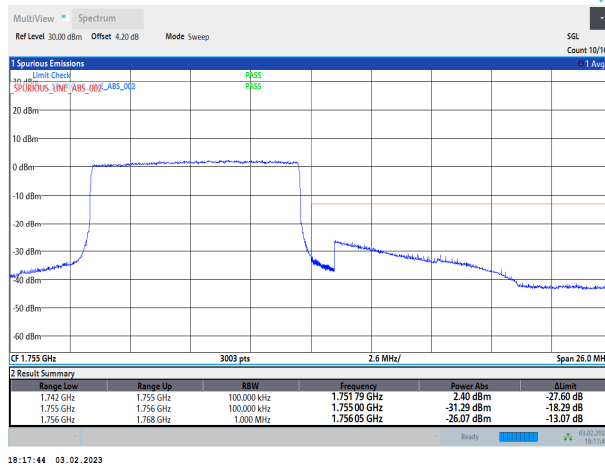
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Band4-10MHz-QPSK-20350-1RB#49



Band4-10MHz-QPSK-20350-50RB#0

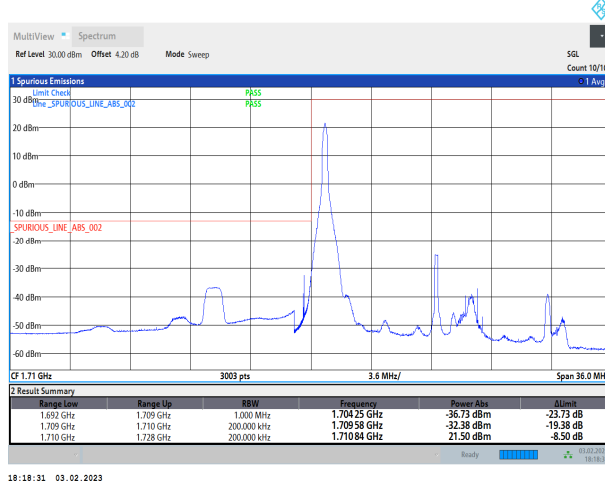


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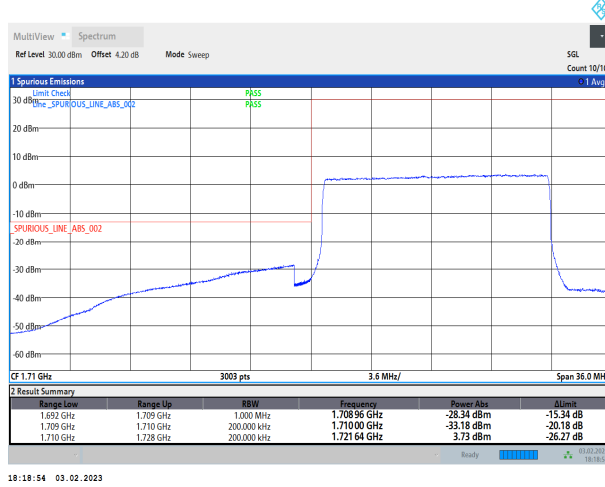
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0

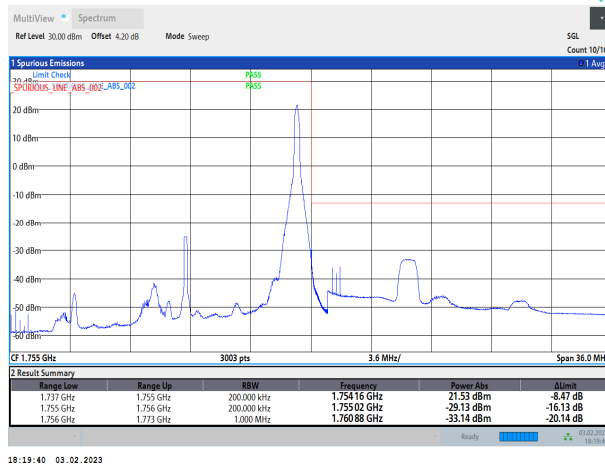


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Band4-15MHz-QPSK-20325-1RB#74



Band4-15MHz-QPSK-20325-75RB#0

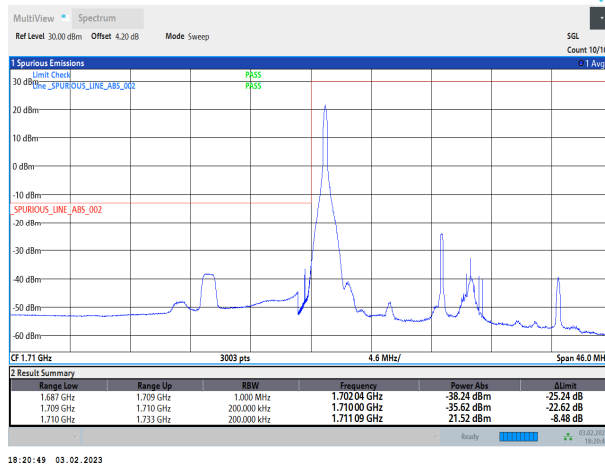


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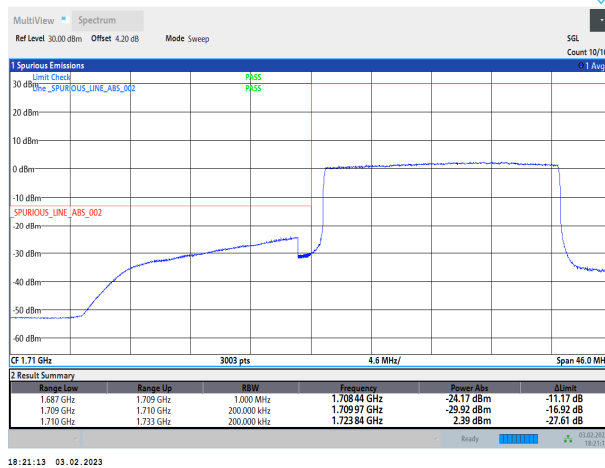
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0

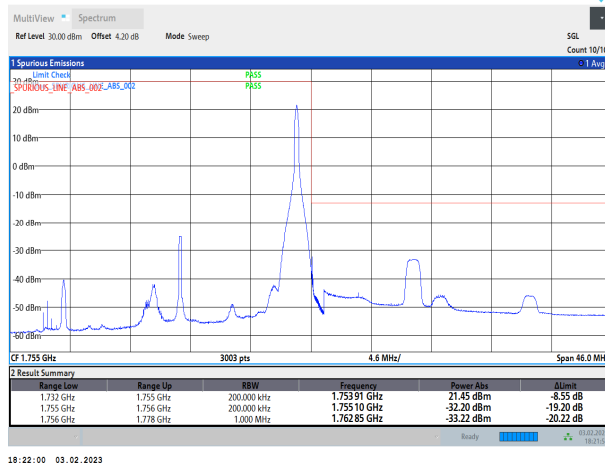


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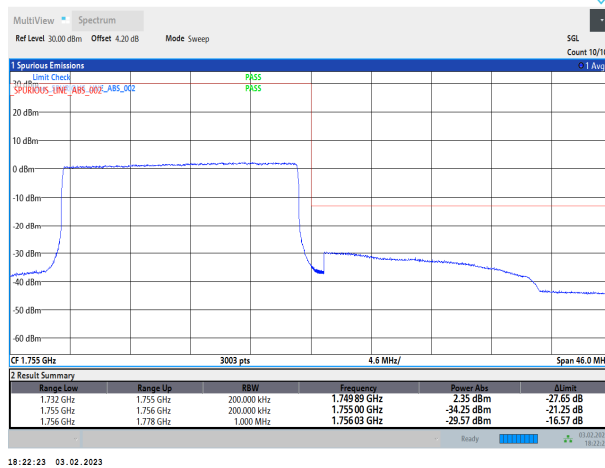
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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



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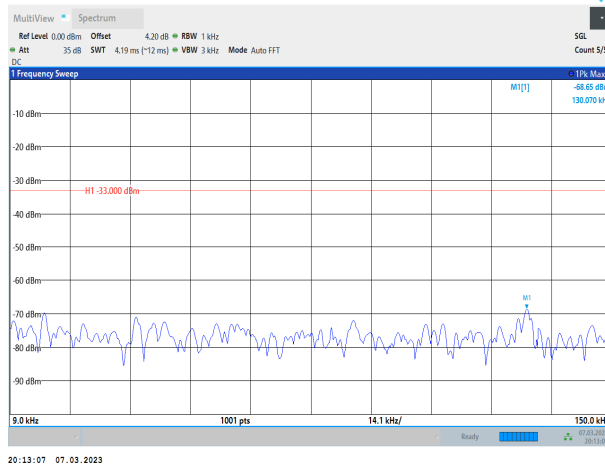
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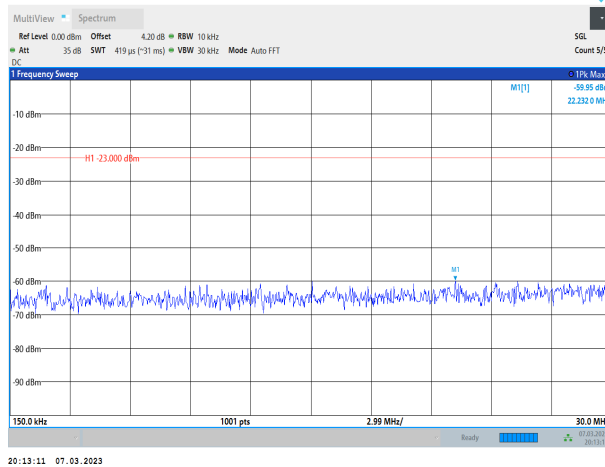
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

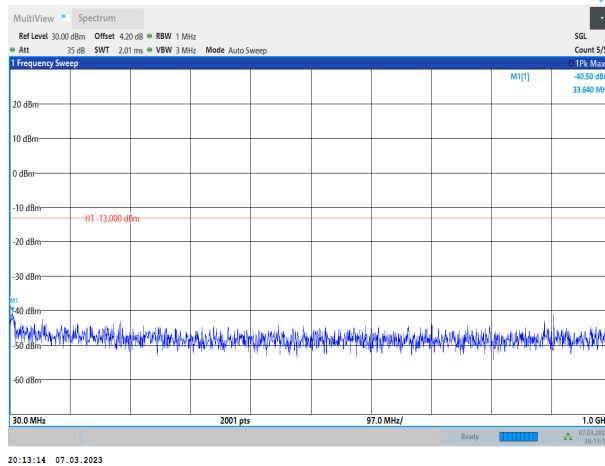


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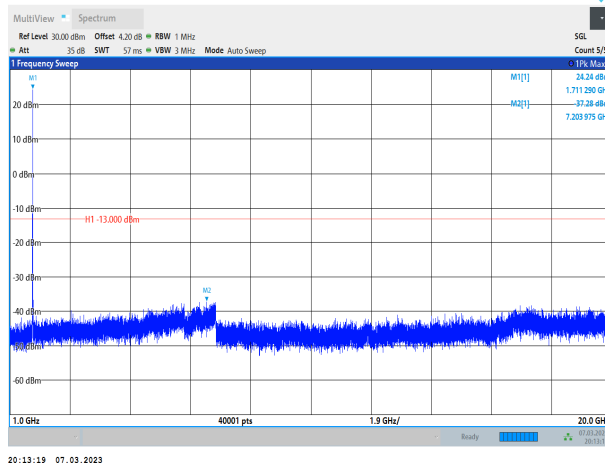
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz

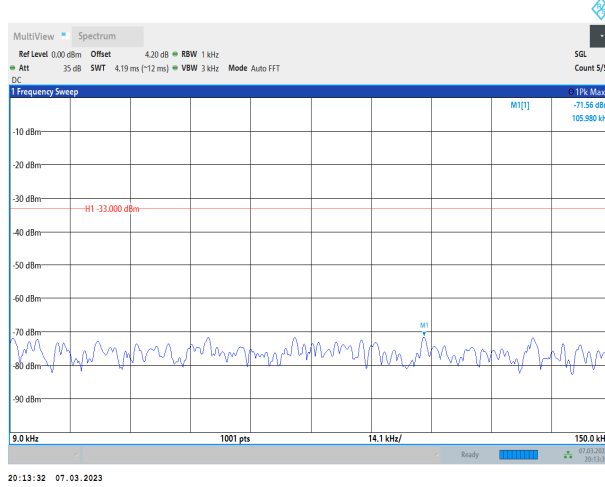


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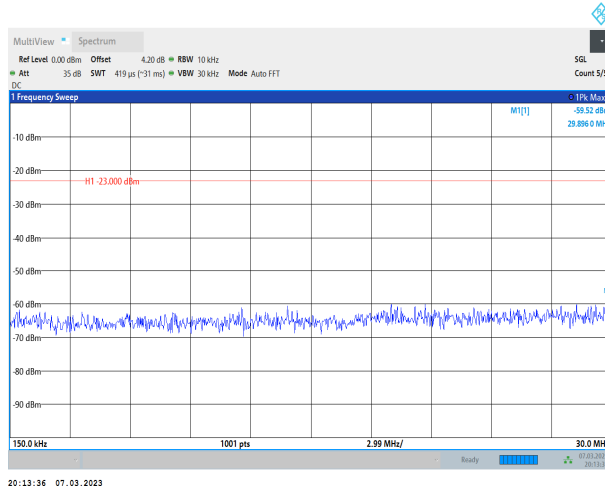
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



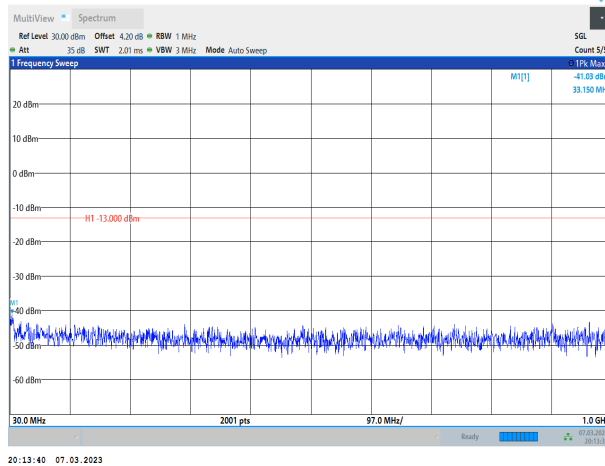
Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



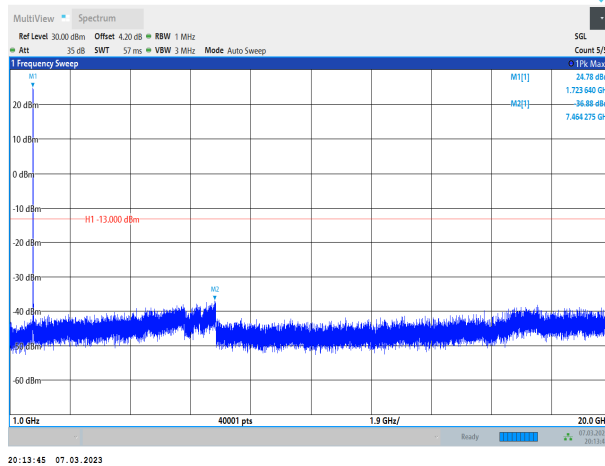
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz

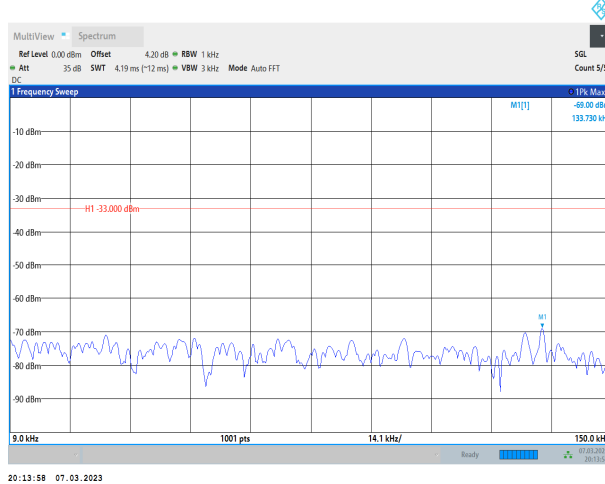


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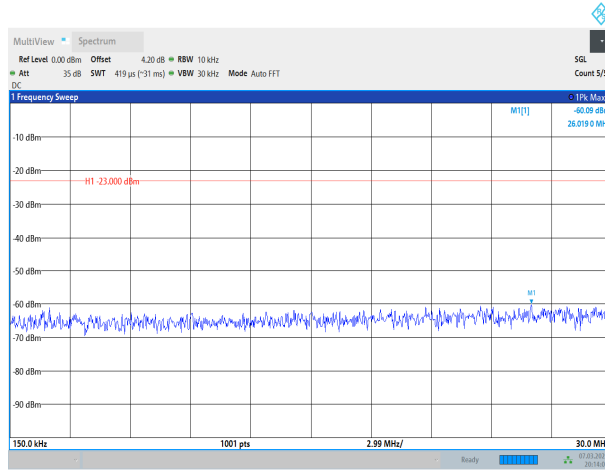
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



20:13:58 07.03.2023

Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



20:14:02 07.03.2023

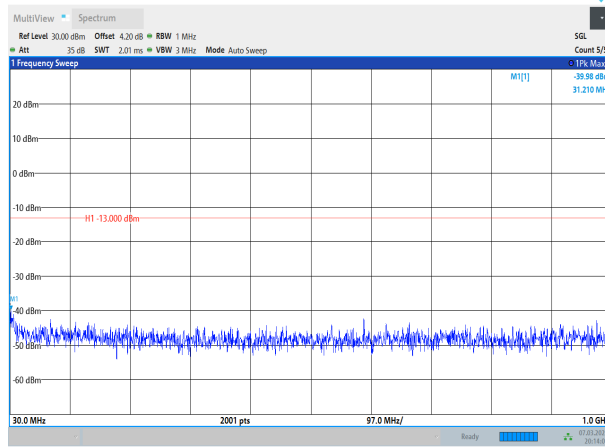


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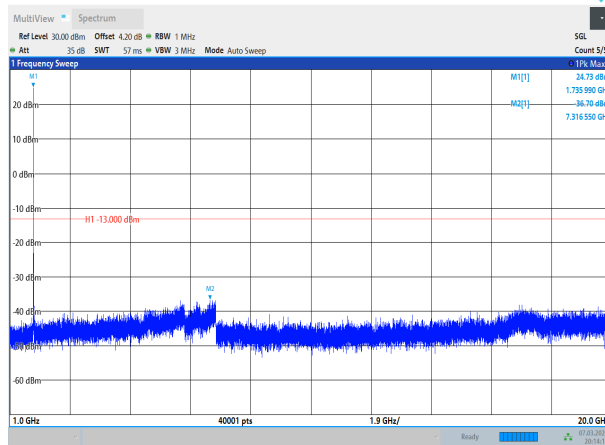
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



20:14:06 07.03.2023

Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



20:14:10 07.03.2023



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Field Strength of Spurious Radiation

Test Band = LTE Band 4_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.18	45.33	-45.88	29.43	-66.38	-13.00	53.38	215	162	Horizontal
2	5133.27	40.96	-44.24	32.60	-65.94	-13.00	52.94	274	179	Horizontal
3	6844.36	39.32	-42.50	35.89	-62.55	-13.00	49.55	163	162	Horizontal
4	8555.45	37.03	-39.68	38.11	-59.80	-13.00	46.80	277	279	Horizontal
5	10266.54	34.65	-36.74	38.79	-58.55	-13.00	45.55	198	360	Horizontal
6	11977.63	32.78	-35.32	38.62	-59.17	-13.00	46.17	302	360	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	3422.18	47.04	-45.88	29.43	-64.67	-13.00	51.67	235	164	Vertical
2	5133.27	40.79	-44.24	32.60	-66.11	-13.00	53.11	219	181	Vertical
3	6844.36	40.51	-42.50	35.89	-61.36	-13.00	48.36	316	215	Vertical
4	8555.45	36.95	-39.68	38.11	-59.88	-13.00	46.88	258	198	Vertical
5	10266.54	34.06	-36.74	38.79	-59.14	-13.00	46.14	173	3	Vertical
6	11977.63	32.82	-35.32	38.62	-59.13	-13.00	46.13	144	82	Vertical



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Test Band = LTE Band 4_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5170.5	44.92	-44.19	32.60	-61.93	-13.00	48.93	287	181	Horizontal
2	3447.18	43.61	-45.82	29.42	-68.04	-13.00	55.04	163	215	Horizontal
3	6894.36	40.68	-42.44	35.99	-61.03	-13.00	48.03	241	231	Horizontal
4	8617.95	36.72	-39.74	38.18	-60.10	-13.00	47.10	199	198	Horizontal
5	10341.54	34.85	-36.68	38.88	-58.21	-13.00	45.21	322	99	Horizontal
6	12065.13	33.49	-35.25	38.67	-58.36	-13.00	45.36	168	115	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	3447.18	45.18	-45.82	29.42	-66.47	-13.00	53.47	158	149	Vertical
2	5170.77	43.89	-44.19	32.60	-62.96	-13.00	49.96	259	149	Vertical
3	6894.36	39.82	-42.44	35.99	-61.89	-13.00	48.89	167	33	Vertical
4	8617.95	37.05	-39.74	38.18	-59.77	-13.00	46.77	224	314	Vertical
5	10341.54	34.73	-36.68	38.88	-58.33	-13.00	45.33	199	33	Vertical
6	12065.13	32.63	-35.25	38.67	-59.22	-13.00	46.22	238	249	Vertical



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Test Band = LTE Band 4_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.18	43.75	-45.76	29.41	-67.86	-13.00	54.86	251	114	Horizontal
2	5208.27	41.38	-44.14	32.60	-65.42	-13.00	52.42	177	131	Horizontal
3	6944.36	39.71	-42.50	36.09	-61.96	-13.00	48.96	197	49	Horizontal
4	8680.45	36.84	-39.46	38.25	-59.63	-13.00	46.63	226	15	Horizontal
5	10416.54	32.01	-36.46	38.96	-60.75	-13.00	47.75	185	359	Horizontal
6	12152.63	32.39	-35.22	38.75	-59.34	-13.00	46.34	301	164	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	3472.18	44.16	-45.76	29.41	-67.45	-13.00	54.45	234	215	Vertical
2	5208.27	42.79	-44.14	32.60	-64.01	-13.00	51.01	171	149	Vertical
3	6944.36	39.65	-42.50	36.09	-62.02	-13.00	49.02	228	282	Vertical
4	8680.45	36.31	-39.46	38.25	-60.16	-13.00	47.16	169	215	Vertical
5	10416.54	32.09	-36.46	38.96	-60.67	-13.00	47.67	304	346	Vertical
6	12152.63	31.73	-35.22	38.75	-60.00	-13.00	47.00	186	358	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) - Pre-amplifier (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
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	6.10	0.003521	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-9.50	-0.005483	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-0.40	-0.000231	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-2.90	-0.001674	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-8.10	-0.004675	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	6.70	0.003867	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-7.80	-0.004502	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-7.00	-0.004040	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	0.30	0.000173	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	1.10	0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	4.50	0.002597	PASS

---End of Attachment---



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