

Report No.: SEWM2207000122RG01

Rev.: 01

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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	23.84	22.54	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.99	22.69	30	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	23.93	22.63	30	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	23.17	21.87	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	23.95	22.65	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	23.96	22.66	30	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	23.96	22.66	30	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	23.19	21.89	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.88	22.58	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.95	22.65	30	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.92	22.62	30	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	23.12	21.82	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	23.15	21.85	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	23.24	21.94	30	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	23.15	21.85	30	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	22.24	20.94	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	23.14	21.84	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	23.25	21.95	30	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	23.08	21.78	30	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	22.26	20.96	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	23.14	21.84	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	23.14	21.84	30	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	23.13	21.83	30	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	22.2	20.9	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#0	22.23	20.93	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#2	22.22	20.92	30	PASS
Band4	1.4MHz	64QAM	19957	1RB#5	22.19	20.89	30	PASS



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Band4	1.4MHz	64QAM	19957	6RB#0	21.19	19.89	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#0	22.17	20.87	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#2	22.24	20.94	30	PASS
Band4	1.4MHz	64QAM	20175	1RB#5	22.2	20.9	30	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	21.17	19.87	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#0	22.11	20.81	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#2	22.23	20.93	30	PASS
Band4	1.4MHz	64QAM	20393	1RB#5	22.16	20.86	30	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	21.15	19.85	30	PASS
Band4	3MHz	QPSK	19965	1RB#0	23.75	22.45	30	PASS
Band4	3MHz	QPSK	19965	1RB#8	23.93	22.63	30	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.79	22.49	30	PASS
Band4	3MHz	QPSK	19965	15RB#0	23.05	21.75	30	PASS
Band4	3MHz	QPSK	20175	1RB#0	23.79	22.49	30	PASS
Band4	3MHz	QPSK	20175	1RB#8	23.94	22.64	30	PASS
Band4	3MHz	QPSK	20175	1RB#14	23.79	22.49	30	PASS
Band4	3MHz	QPSK	20175	15RB#0	23.04	21.74	30	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.74	22.44	30	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.87	22.57	30	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.75	22.45	30	PASS
Band4	3MHz	QPSK	20385	15RB#0	23.02	21.72	30	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.93	21.63	30	PASS
Band4	3MHz	16QAM	19965	1RB#8	23.1	21.8	30	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.99	21.69	30	PASS
Band4	3MHz	16QAM	19965	15RB#0	22.06	20.76	30	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.97	21.67	30	PASS
Band4	3MHz	16QAM	20175	1RB#8	23.14	21.84	30	PASS
Band4	3MHz	16QAM	20175	1RB#14	23	21.7	30	PASS
Band4	3MHz	16QAM	20175	15RB#0	22.01	20.71	30	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.95	21.65	30	PASS
Band4	3MHz	16QAM	20385	1RB#8	23.12	21.82	30	PASS
Band4	3MHz	16QAM	20385	1RB#14	23.03	21.73	30	PASS
Band4	3MHz	16QAM	20385	15RB#0	22	20.7	30	PASS



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Band4	3MHz	64QAM	19965	1RB#0	22.06	20.76	30	PASS
Band4	3MHz	64QAM	19965	1RB#8	22.18	20.88	30	PASS
Band4	3MHz	64QAM	19965	1RB#14	22.05	20.75	30	PASS
Band4	3MHz	64QAM	19965	15RB#0	21.04	19.74	30	PASS
Band4	3MHz	64QAM	20175	1RB#0	22.09	20.79	30	PASS
Band4	3MHz	64QAM	20175	1RB#8	22.23	20.93	30	PASS
Band4	3MHz	64QAM	20175	1RB#14	22.01	20.71	30	PASS
Band4	3MHz	64QAM	20175	15RB#0	21.03	19.73	30	PASS
Band4	3MHz	64QAM	20385	1RB#0	21.98	20.68	30	PASS
Band4	3MHz	64QAM	20385	1RB#8	22.15	20.85	30	PASS
Band4	3MHz	64QAM	20385	1RB#14	22.05	20.75	30	PASS
Band4	3MHz	64QAM	20385	15RB#0	21.04	19.74	30	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.98	22.68	30	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.87	22.57	30	PASS
Band4	5MHz	QPSK	19975	1RB#24	23.92	22.62	30	PASS
Band4	5MHz	QPSK	19975	25RB#0	23.13	21.83	30	PASS
Band4	5MHz	QPSK	20175	1RB#0	23.99	22.69	30	PASS
Band4	5MHz	QPSK	20175	1RB#12	23.85	22.55	30	PASS
Band4	5MHz	QPSK	20175	1RB#24	23.57	22.27	30	PASS
Band4	5MHz	QPSK	20175	25RB#0	23.13	21.83	30	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.93	22.63	30	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.69	22.39	30	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.99	22.69	30	PASS
Band4	5MHz	QPSK	20375	25RB#0	23.11	21.81	30	PASS
Band4	5MHz	16QAM	19975	1RB#0	23.25	21.95	30	PASS
Band4	5MHz	16QAM	19975	1RB#12	23.42	22.12	30	PASS
Band4	5MHz	16QAM	19975	1RB#24	23.33	22.03	30	PASS
Band4	5MHz	16QAM	19975	25RB#0	22.13	20.83	30	PASS
Band4	5MHz	16QAM	20175	1RB#0	23.16	21.86	30	PASS
Band4	5MHz	16QAM	20175	1RB#12	23.42	22.12	30	PASS
Band4	5MHz	16QAM	20175	1RB#24	23.23	21.93	30	PASS
Band4	5MHz	16QAM	20175	25RB#0	22.14	20.84	30	PASS
Band4	5MHz	16QAM	20375	1RB#0	23.09	21.79	30	PASS



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Band4	5MHz	16QAM	20375	1RB#12	23.32	22.02	30	PASS
Band4	5MHz	16QAM	20375	1RB#24	23.19	21.89	30	PASS
Band4	5MHz	16QAM	20375	25RB#0	22.12	20.82	30	PASS
Band4	5MHz	64QAM	19975	1RB#0	22.2	20.9	30	PASS
Band4	5MHz	64QAM	19975	1RB#12	22.36	21.06	30	PASS
Band4	5MHz	64QAM	19975	1RB#24	22.23	20.93	30	PASS
Band4	5MHz	64QAM	19975	25RB#0	21.18	19.88	30	PASS
Band4	5MHz	64QAM	20175	1RB#0	22.16	20.86	30	PASS
Band4	5MHz	64QAM	20175	1RB#12	22.37	21.07	30	PASS
Band4	5MHz	64QAM	20175	1RB#24	22.15	20.85	30	PASS
Band4	5MHz	64QAM	20175	25RB#0	21.14	19.84	30	PASS
Band4	5MHz	64QAM	20375	1RB#0	22.17	20.87	30	PASS
Band4	5MHz	64QAM	20375	1RB#12	22.28	20.98	30	PASS
Band4	5MHz	64QAM	20375	1RB#24	22.2	20.9	30	PASS
Band4	5MHz	64QAM	20375	25RB#0	21.14	19.84	30	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.87	22.57	30	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.96	22.66	30	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.54	22.24	30	PASS
Band4	10MHz	QPSK	20000	50RB#0	23.19	21.89	30	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.47	22.17	30	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.96	22.66	30	PASS
Band4	10MHz	QPSK	20175	1RB#49	23.77	22.47	30	PASS
Band4	10MHz	QPSK	20175	50RB#0	23.16	21.86	30	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.96	22.66	30	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.58	22.28	30	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.36	22.06	30	PASS
Band4	10MHz	QPSK	20350	50RB#0	23.17	21.87	30	PASS
Band4	10MHz	16QAM	20000	1RB#0	23.33	22.03	30	PASS
Band4	10MHz	16QAM	20000	1RB#24	23.45	22.15	30	PASS
Band4	10MHz	16QAM	20000	1RB#49	23.32	22.02	30	PASS
Band4	10MHz	16QAM	20000	50RB#0	22.16	20.86	30	PASS
Band4	10MHz	16QAM	20175	1RB#0	23.26	21.96	30	PASS
Band4	10MHz	16QAM	20175	1RB#24	23.3	22	30	PASS



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Band4	10MHz	16QAM	20175	1RB#49	23.27	21.97	30	PASS
Band4	10MHz	16QAM	20175	50RB#0	22.11	20.81	30	PASS
Band4	10MHz	16QAM	20350	1RB#0	23.17	21.87	30	PASS
Band4	10MHz	16QAM	20350	1RB#24	23.31	22.01	30	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.34	22.04	30	PASS
Band4	10MHz	16QAM	20350	50RB#0	22.13	20.83	30	PASS
Band4	10MHz	64QAM	20000	1RB#0	22.28	20.98	30	PASS
Band4	10MHz	64QAM	20000	1RB#24	22.34	21.04	30	PASS
Band4	10MHz	64QAM	20000	1RB#49	22.28	20.98	30	PASS
Band4	10MHz	64QAM	20000	50RB#0	21.17	19.87	30	PASS
Band4	10MHz	64QAM	20175	1RB#0	22.2	20.9	30	PASS
Band4	10MHz	64QAM	20175	1RB#24	22.32	21.02	30	PASS
Band4	10MHz	64QAM	20175	1RB#49	22.27	20.97	30	PASS
Band4	10MHz	64QAM	20175	50RB#0	21.13	19.83	30	PASS
Band4	10MHz	64QAM	20350	1RB#0	22.21	20.91	30	PASS
Band4	10MHz	64QAM	20350	1RB#24	22.28	20.98	30	PASS
Band4	10MHz	64QAM	20350	1RB#49	22.28	20.98	30	PASS
Band4	10MHz	64QAM	20350	50RB#0	21.14	19.84	30	PASS
Band4	15MHz	QPSK	20025	1RB#0	23.92	22.62	30	PASS
Band4	15MHz	QPSK	20025	1RB#38	23.32	22.02	30	PASS
Band4	15MHz	QPSK	20025	1RB#74	23.58	22.28	30	PASS
Band4	15MHz	QPSK	20025	75RB#0	23.14	21.84	30	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.96	22.66	30	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.96	22.66	30	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.99	22.69	30	PASS
Band4	15MHz	QPSK	20175	75RB#0	23.16	21.86	30	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.99	22.69	30	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.74	22.44	30	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.54	22.24	30	PASS
Band4	15MHz	QPSK	20325	75RB#0	23.18	21.88	30	PASS
Band4	15MHz	16QAM	20025	1RB#0	23.17	21.87	30	PASS
Band4	15MHz	16QAM	20025	1RB#38	23.35	22.05	30	PASS
Band4	15MHz	16QAM	20025	1RB#74	23.33	22.03	30	PASS



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Band4	15MHz	16QAM	20025	75RB#0	22.14	20.84	30	PASS
Band4	15MHz	16QAM	20175	1RB#0	23.11	21.81	30	PASS
Band4	15MHz	16QAM	20175	1RB#38	23.3	22	30	PASS
Band4	15MHz	16QAM	20175	1RB#74	23.23	21.93	30	PASS
Band4	15MHz	16QAM	20175	75RB#0	22.11	20.81	30	PASS
Band4	15MHz	16QAM	20325	1RB#0	23.14	21.84	30	PASS
Band4	15MHz	16QAM	20325	1RB#38	23.36	22.06	30	PASS
Band4	15MHz	16QAM	20325	1RB#74	23.25	21.95	30	PASS
Band4	15MHz	16QAM	20325	75RB#0	22.15	20.85	30	PASS
Band4	15MHz	64QAM	20025	1RB#0	22.17	20.87	30	PASS
Band4	15MHz	64QAM	20025	1RB#38	22.35	21.05	30	PASS
Band4	15MHz	64QAM	20025	1RB#74	22.2	20.9	30	PASS
Band4	15MHz	64QAM	20025	75RB#0	21.15	19.85	30	PASS
Band4	15MHz	64QAM	20175	1RB#0	22.13	20.83	30	PASS
Band4	15MHz	64QAM	20175	1RB#38	22.39	21.09	30	PASS
Band4	15MHz	64QAM	20175	1RB#74	22.26	20.96	30	PASS
Band4	15MHz	64QAM	20175	75RB#0	21.12	19.82	30	PASS
Band4	15MHz	64QAM	20325	1RB#0	22.16	20.86	30	PASS
Band4	15MHz	64QAM	20325	1RB#38	22.35	21.05	30	PASS
Band4	15MHz	64QAM	20325	1RB#74	22.26	20.96	30	PASS
Band4	15MHz	64QAM	20325	75RB#0	21.15	19.85	30	PASS
Band4	20MHz	QPSK	20050	1RB#0	23.86	22.56	30	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.69	22.39	30	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.85	22.55	30	PASS
Band4	20MHz	QPSK	20050	100RB#0	23.11	21.81	30	PASS
Band4	20MHz	QPSK	20175	1RB#0	23.86	22.56	30	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.44	22.14	30	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.98	22.68	30	PASS
Band4	20MHz	QPSK	20175	100RB#0	23.11	21.81	30	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.87	22.57	30	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.85	22.55	30	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.69	22.39	30	PASS
Band4	20MHz	QPSK	20300	100RB#0	23.13	21.83	30	PASS



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Band4	20MHz	16QAM	20050	1RB#0	23.08	21.78	30	PASS
Band4	20MHz	16QAM	20050	1RB#49	23.4	22.1	30	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.15	21.85	30	PASS
Band4	20MHz	16QAM	20050	100RB#0	22.08	20.78	30	PASS
Band4	20MHz	16QAM	20175	1RB#0	23.01	21.71	30	PASS
Band4	20MHz	16QAM	20175	1RB#49	23.36	22.06	30	PASS
Band4	20MHz	16QAM	20175	1RB#99	23.19	21.89	30	PASS
Band4	20MHz	16QAM	20175	100RB#0	22.08	20.78	30	PASS
Band4	20MHz	16QAM	20300	1RB#0	23.12	21.82	30	PASS
Band4	20MHz	16QAM	20300	1RB#49	23.24	21.94	30	PASS
Band4	20MHz	16QAM	20300	1RB#99	23.22	21.92	30	PASS
Band4	20MHz	16QAM	20300	100RB#0	22.07	20.77	30	PASS
Band4	20MHz	64QAM	20050	1RB#0	22.11	20.81	30	PASS
Band4	20MHz	64QAM	20050	1RB#49	22.35	21.05	30	PASS
Band4	20MHz	64QAM	20050	1RB#99	22.23	20.93	30	PASS
Band4	20MHz	64QAM	20050	100RB#0	21.12	19.82	30	PASS
Band4	20MHz	64QAM	20175	1RB#0	22.06	20.76	30	PASS
Band4	20MHz	64QAM	20175	1RB#49	22.38	21.08	30	PASS
Band4	20MHz	64QAM	20175	1RB#99	22.2	20.9	30	PASS
Band4	20MHz	64QAM	20175	100RB#0	21.12	19.82	30	PASS
Band4	20MHz	64QAM	20300	1RB#0	22.1	20.8	30	PASS
Band4	20MHz	64QAM	20300	1RB#49	22.26	20.96	30	PASS
Band4	20MHz	64QAM	20300	1RB#99	22.2	20.9	30	PASS
Band4	20MHz	64QAM	20300	100RB#0	21.12	19.82	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	5.64	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	5.62	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	5.60	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	6.66	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	6.58	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	6.60	13	PASS
Band4	20MHz	64QAM	20050	100RB#0	6.82	13	PASS
Band4	20MHz	64QAM	20175	100RB#0	6.88	13	PASS
Band4	20MHz	64QAM	20300	100RB#0	6.88	13	PASS



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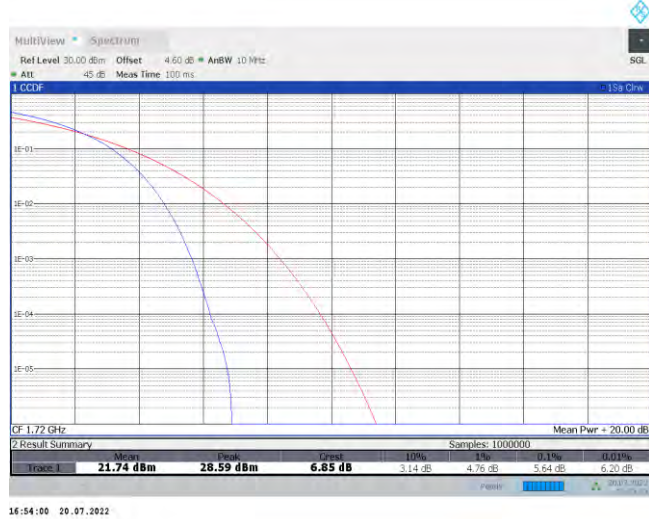
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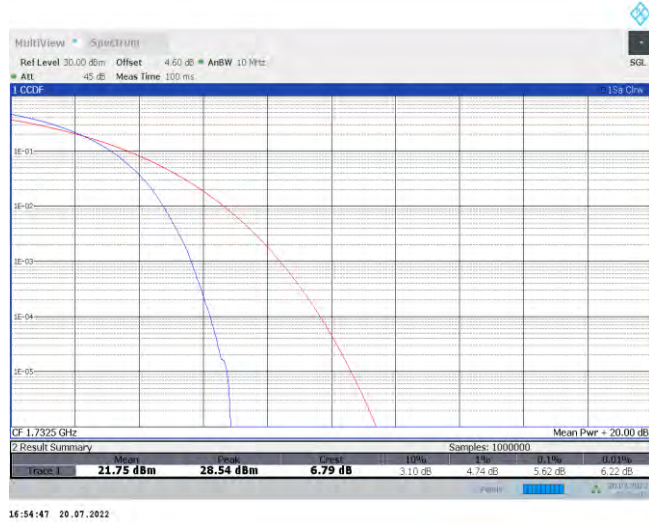
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Test Graphs

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



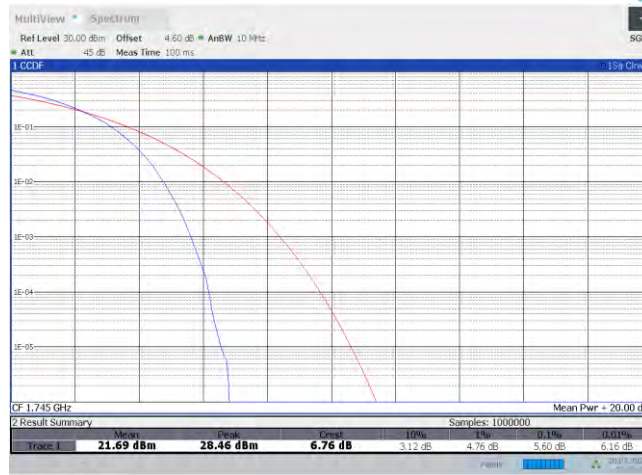
Band4-20MHz-QPSK-20175-100RB#0



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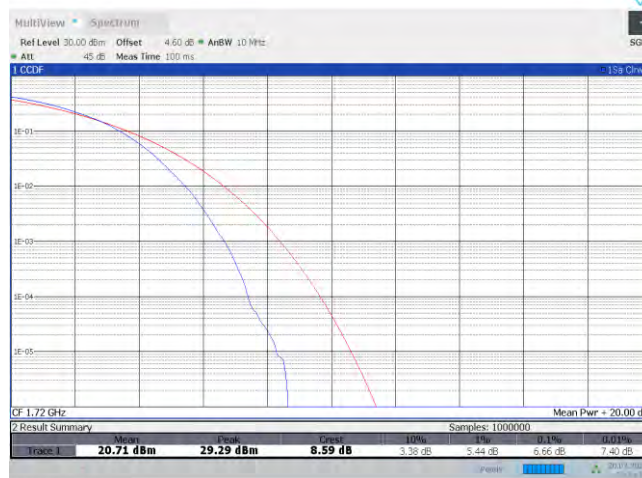
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Band4-20MHz-QPSK-20300-100RB#0



16:55:35 20.07.2022

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



16:54:16 20.07.2022



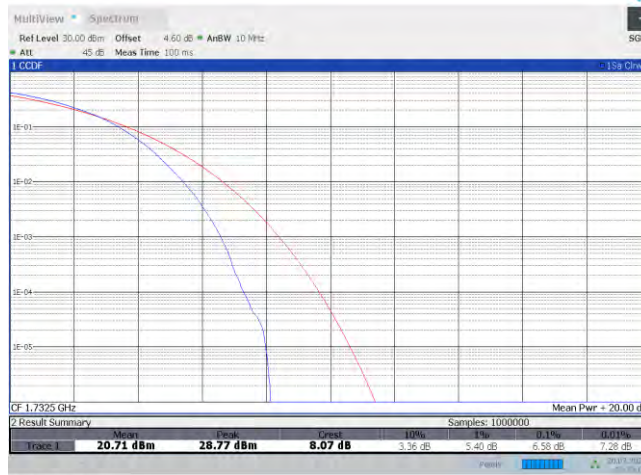
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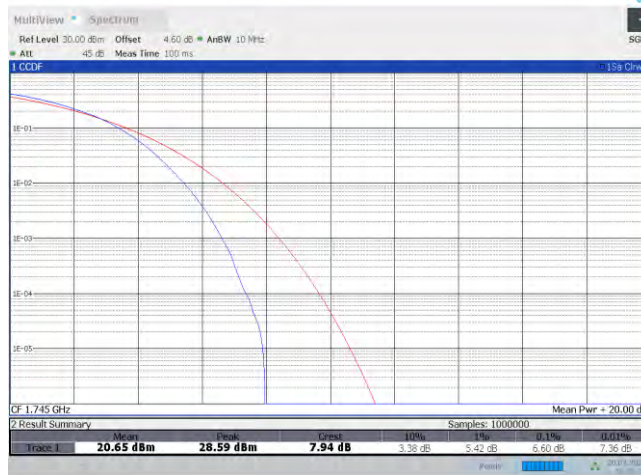
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Band4-20MHz-16QAM-20175-100RB#0



16:55:03 20.07.2022

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



16:55:51 20.07.2022

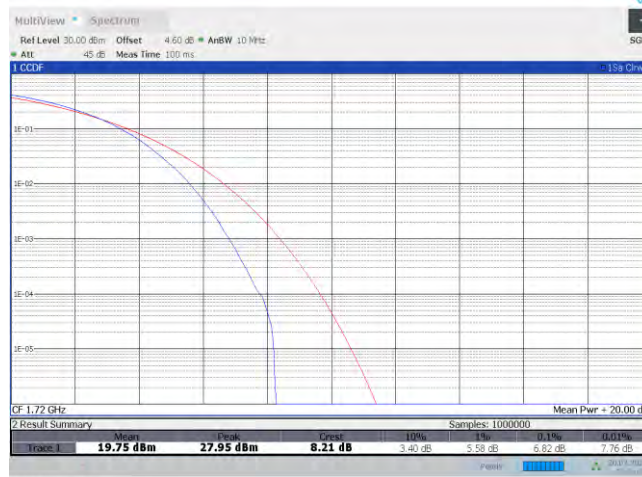


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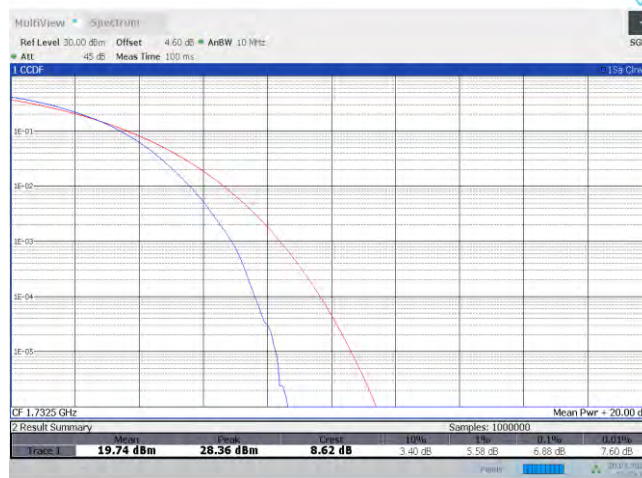
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Band4-20MHz-64QAM-20050-100RB#0



16:54:31 20.07.2022

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



16:55:19 20.07.2022



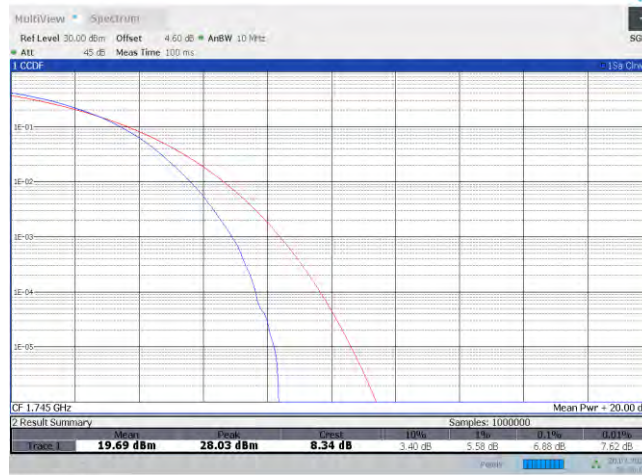
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Band4-20MHz-64QAM-20300-100RB#0



16:56:06 20.07.2022



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band4	20MHz	QPSK	20175	100RB#0	PASS	PASS
Band4	20MHz	16QAM	20175	100RB#0	PASS	PASS
Band4	20MHz	64QAM	20175	100RB#0	PASS	PASS



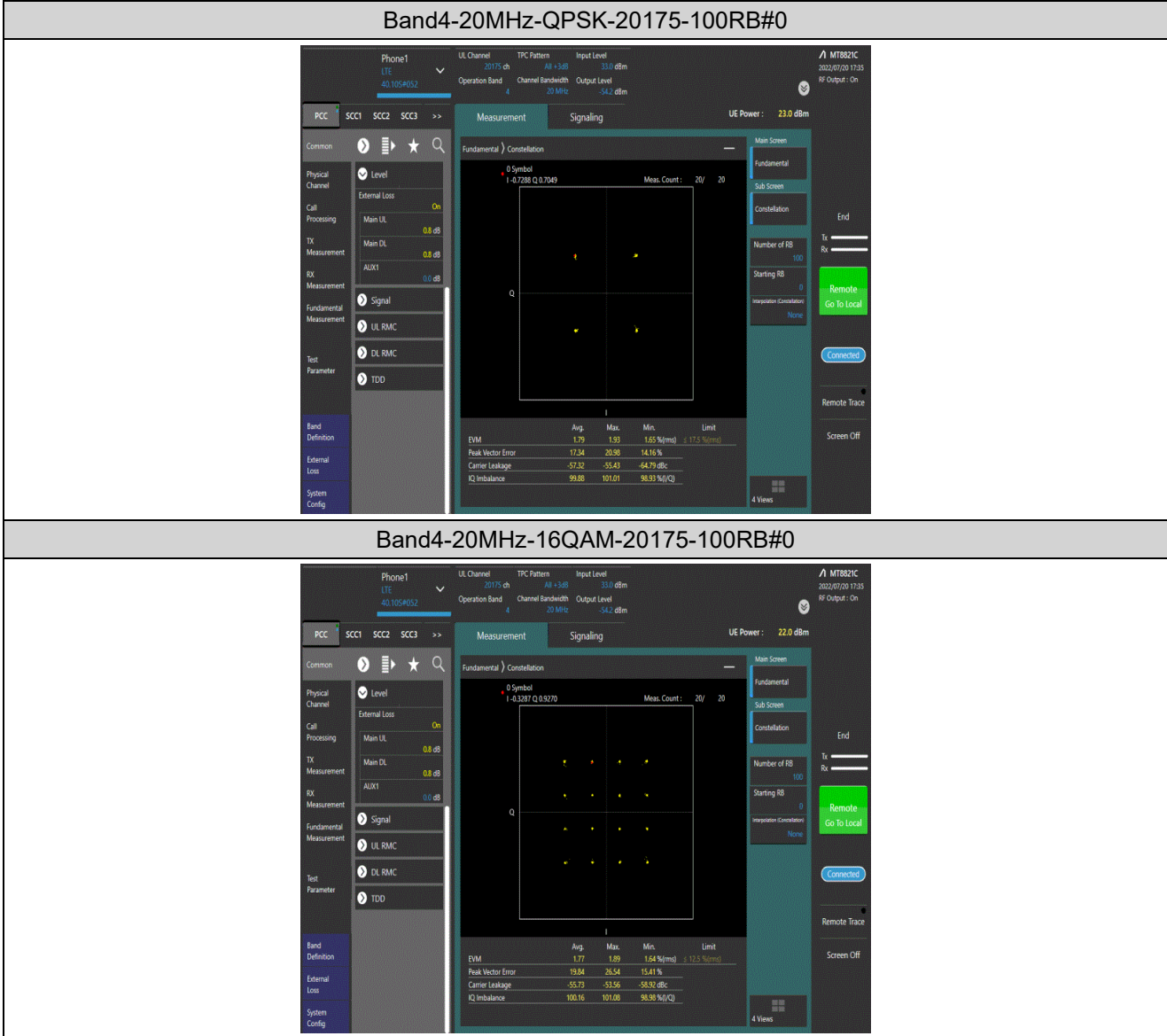
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Test Graphs

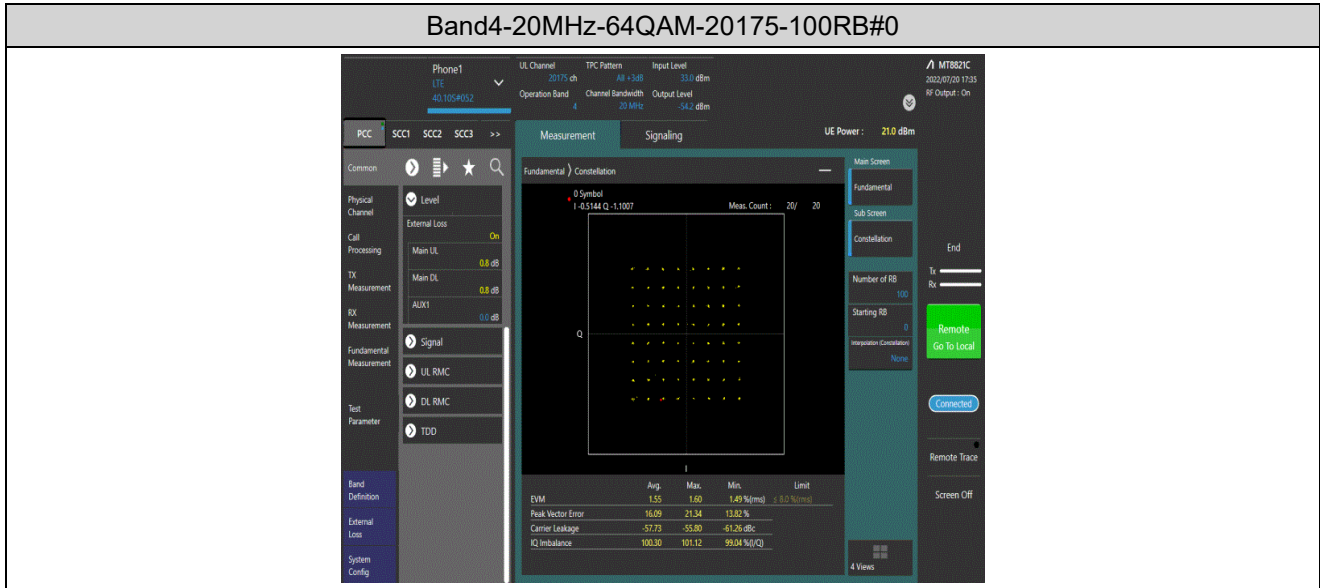


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.080	1.25	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.088	1.27	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.087	1.26	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.099	1.29	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.100	1.29	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.098	1.29	PASS
Band4	1.4MHz	64QAM	19957	6RB#0	1.098	1.28	PASS
Band4	1.4MHz	64QAM	20175	6RB#0	1.097	1.29	PASS
Band4	1.4MHz	64QAM	20393	6RB#0	1.097	1.29	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.686	2.94	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.687	2.96	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.683	2.95	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.676	2.96	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.679	2.96	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.675	2.96	PASS
Band4	3MHz	64QAM	19965	15RB#0	2.681	2.93	PASS
Band4	3MHz	64QAM	20175	15RB#0	2.679	2.93	PASS
Band4	3MHz	64QAM	20385	15RB#0	2.680	2.95	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.472	4.83	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.472	4.82	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.469	4.82	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.472	4.83	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.467	4.86	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.467	4.85	PASS
Band4	5MHz	64QAM	19975	25RB#0	4.475	4.84	PASS
Band4	5MHz	64QAM	20175	25RB#0	4.476	4.85	PASS
Band4	5MHz	64QAM	20375	25RB#0	4.476	4.83	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.928	9.56	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.938	9.56	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.933	9.62	PASS



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Band4	10MHz	16QAM	20000	50RB#0	8.925	9.52	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.908	9.56	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.911	9.56	PASS
Band4	10MHz	64QAM	20000	50RB#0	8.924	9.62	PASS
Band4	10MHz	64QAM	20175	50RB#0	8.922	9.60	PASS
Band4	10MHz	64QAM	20350	50RB#0	8.932	9.60	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.471	14.55	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.467	14.64	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.484	14.67	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.449	14.64	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.449	14.70	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.451	14.64	PASS
Band4	15MHz	64QAM	20025	75RB#0	13.411	14.70	PASS
Band4	15MHz	64QAM	20175	75RB#0	13.431	14.67	PASS
Band4	15MHz	64QAM	20325	75RB#0	13.427	14.61	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.916	19.20	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.905	19.32	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.937	19.24	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.864	19.24	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.893	19.32	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.894	19.28	PASS
Band4	20MHz	64QAM	20050	100RB#0	17.839	19.32	PASS
Band4	20MHz	64QAM	20175	100RB#0	17.872	19.32	PASS
Band4	20MHz	64QAM	20300	100RB#0	17.889	19.24	PASS



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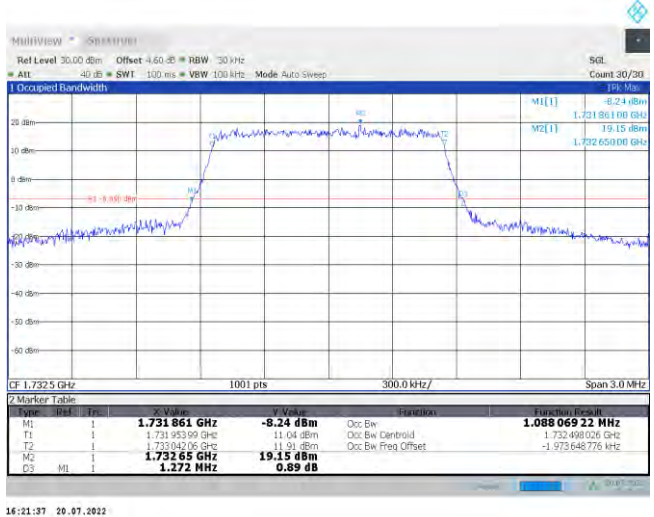
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Test Graphs

Band4-1.4MHz-QPSK-19957-6RB#0



Band4-1.4MHz-QPSK-20175-6RB#0

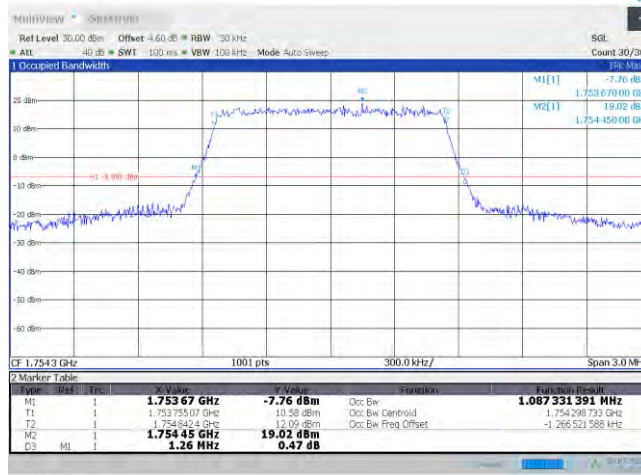


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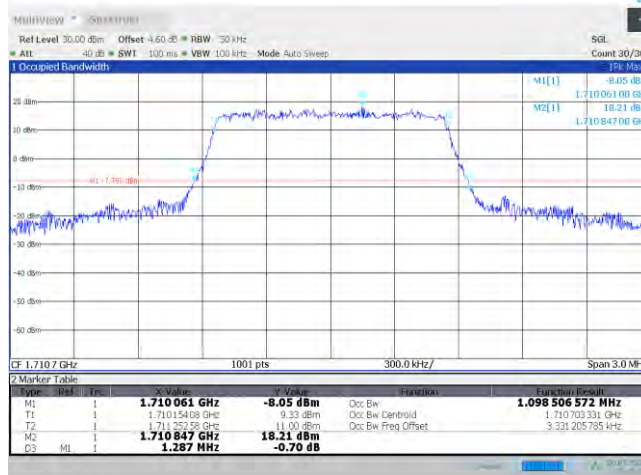
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Band4-1.4MHz-QPSK-20393-6RB#0



16:22:24 20.07.2022

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



16:21:06 20.07.2022

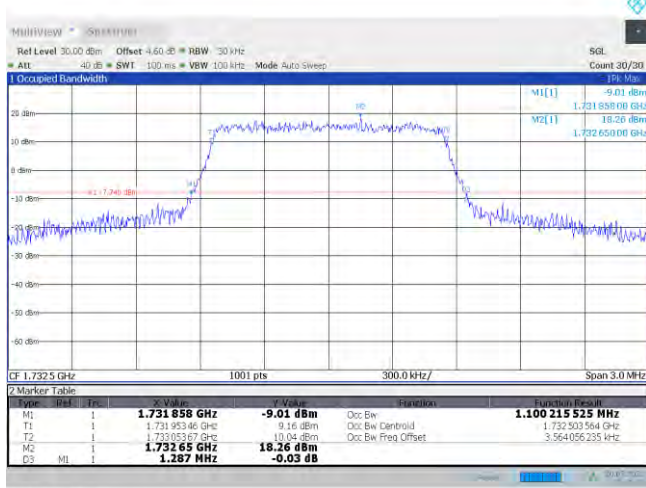


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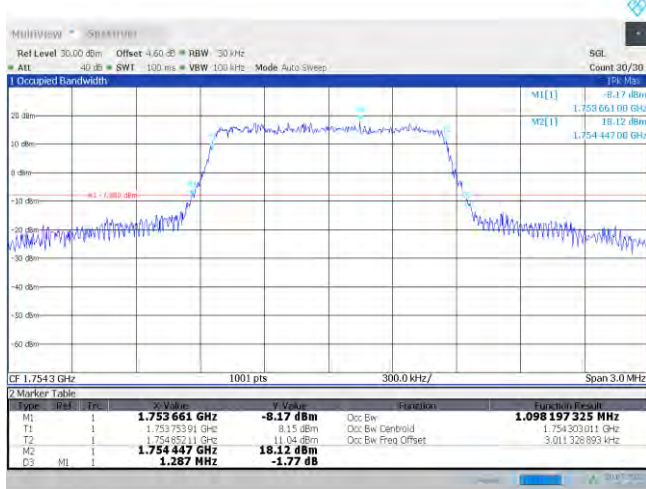
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Band4-1.4MHz-16QAM-20175-6RB#0



16:21:53 20.07.2022

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

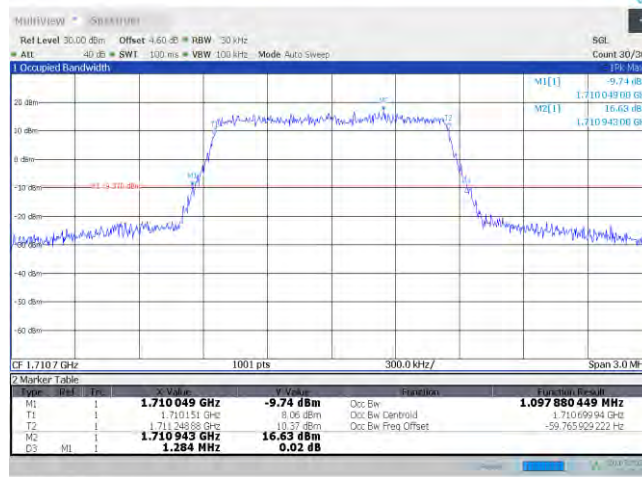


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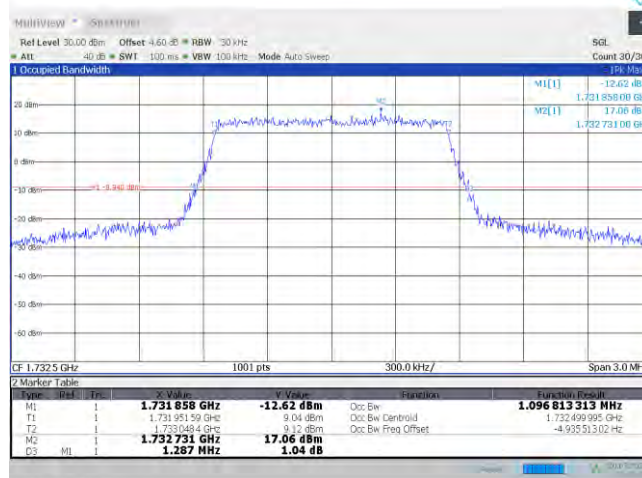
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Band4-1.4MHz-64QAM-19957-6RB#0



16:21:21 20.07.2022

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



16:22:08 20.07.2022



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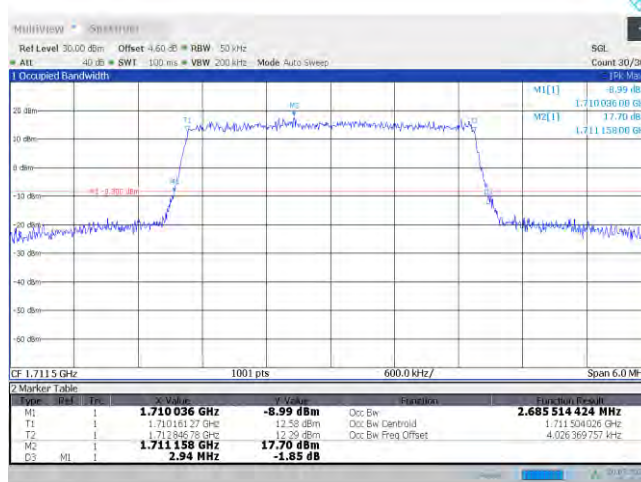
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Band4-1.4MHz-64QAM-20393-6RB#0



16:22:55 20.07.2022

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



16:23:31 20.07.2022



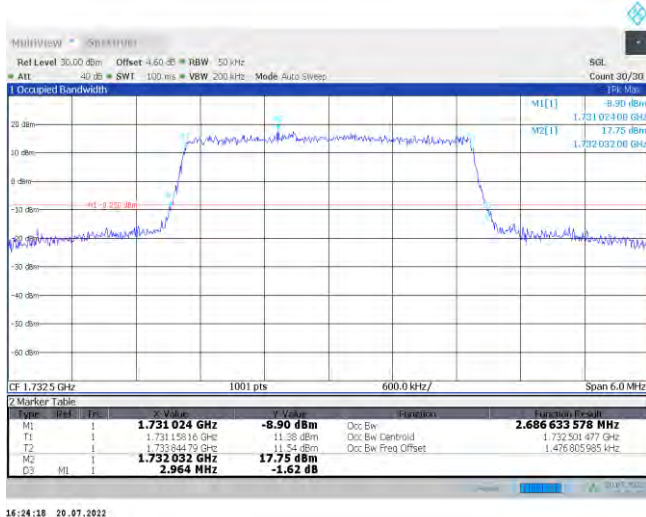
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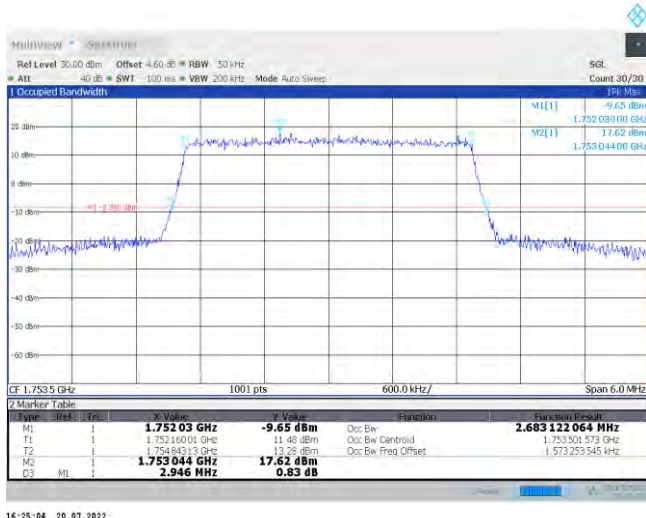
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Band4-3MHz-QPSK-20175-15RB#0



16:24:18 20.07.2022

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

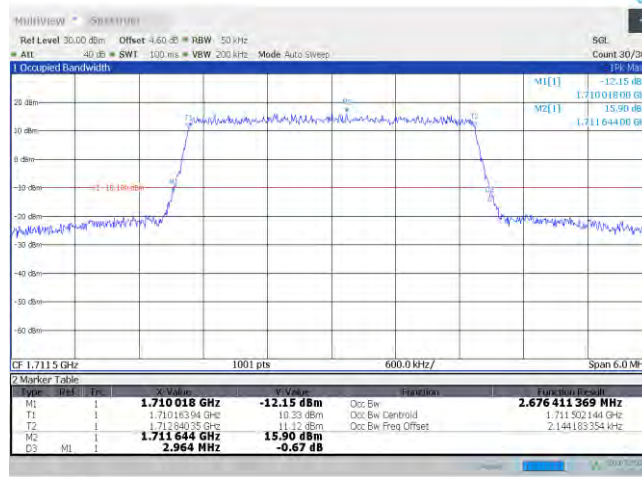


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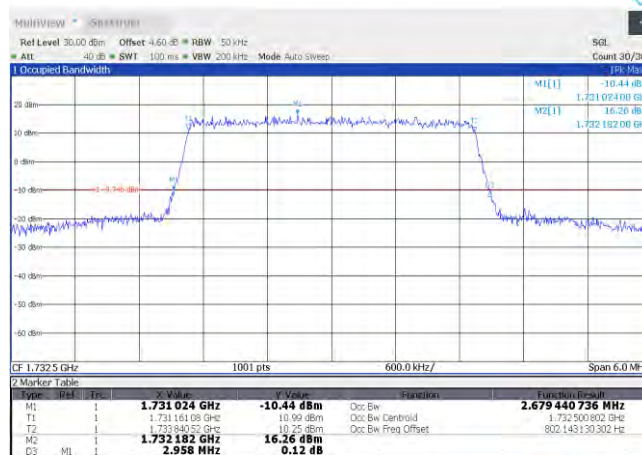
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Band4-3MHz-16QAM-19965-15RB#0



16:23:47 20.07.2022

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



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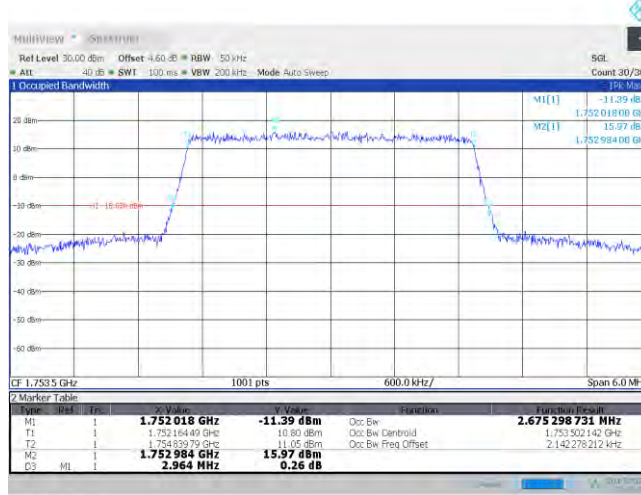
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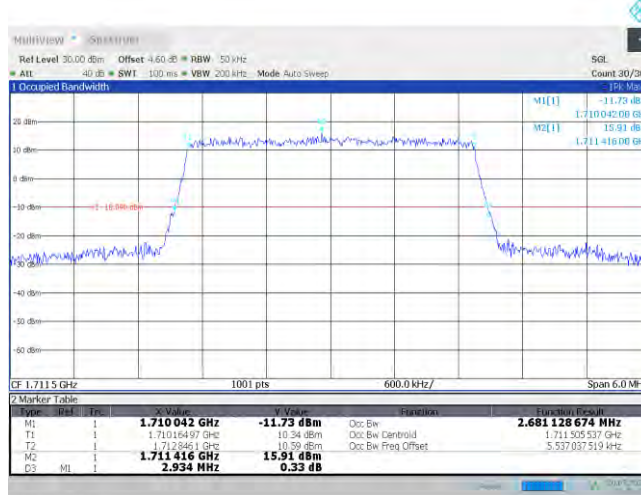
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Band4-3MHz-16QAM-20385-15RB#0



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



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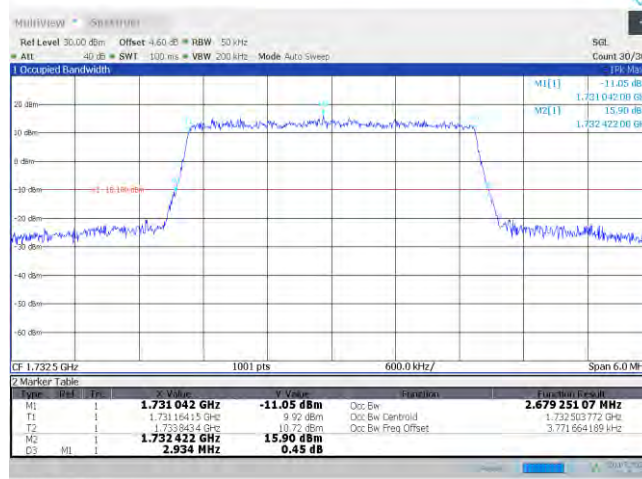


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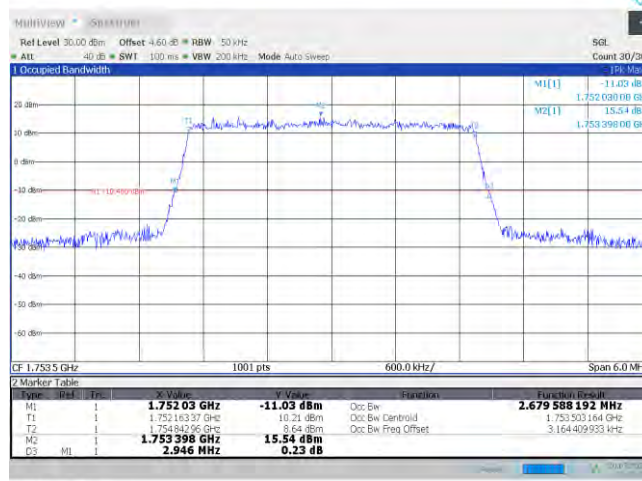
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Band4-3MHz-64QAM-20175-15RB#0



16:24:49 20.07.2022

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



16:25:36 20.07.2022



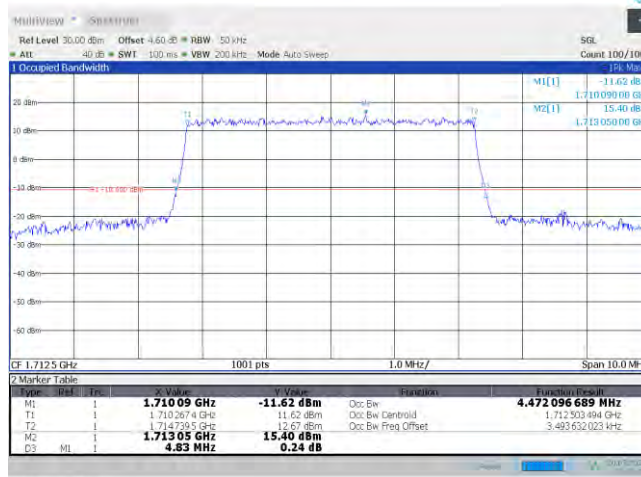
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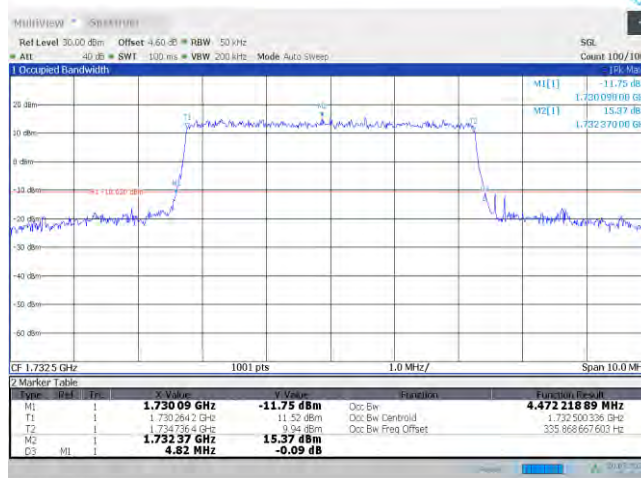
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Band4-5MHz-QPSK-19975-25RB#0



16:26:19 20.07.2022

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



16:27:26 20.07.2022

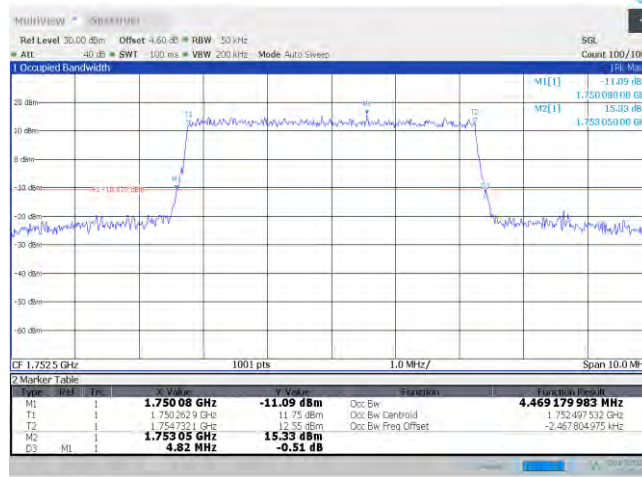


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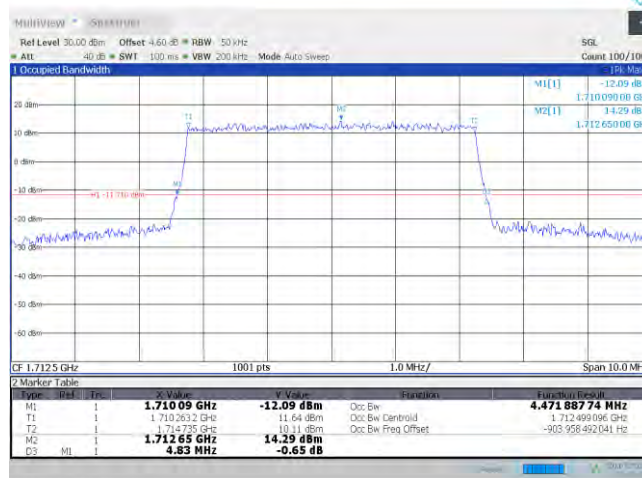
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Band4-5MHz-QPSK-20375-25RB#0



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



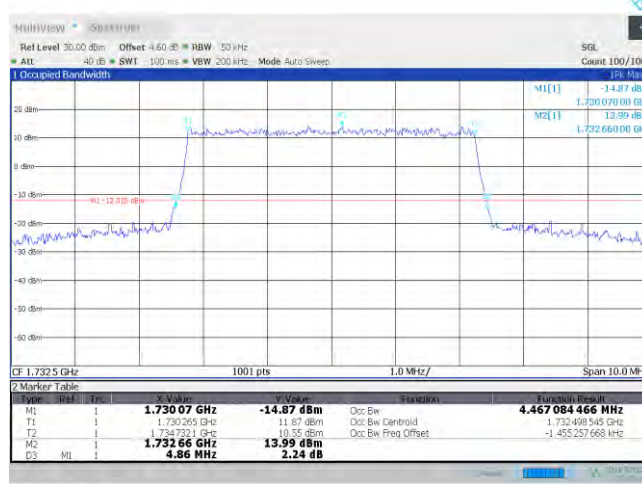
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Band4-5MHz-16QAM-20175-25RB#0



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



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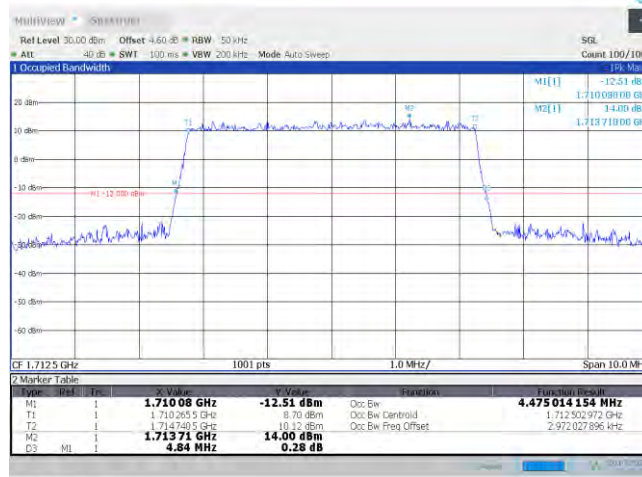


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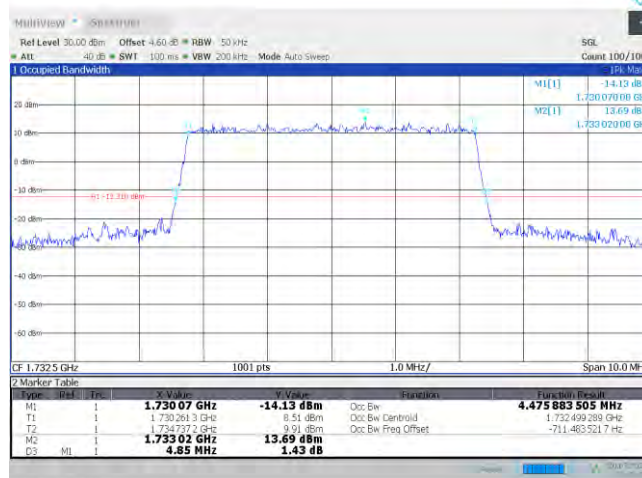
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Band4-5MHz-64QAM-19975-25RB#0



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



16:28:11 20.07.2022



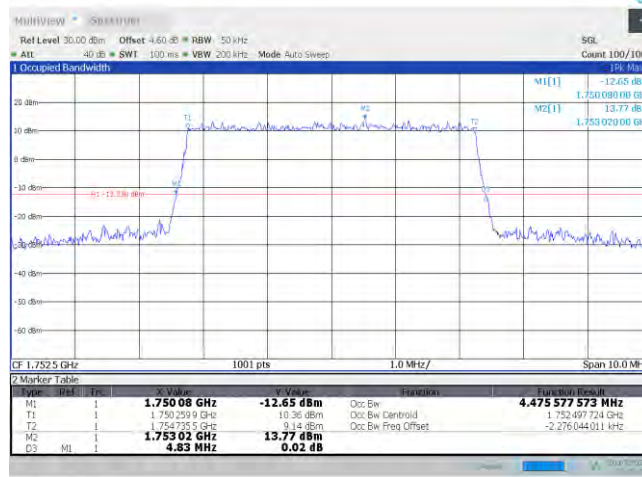
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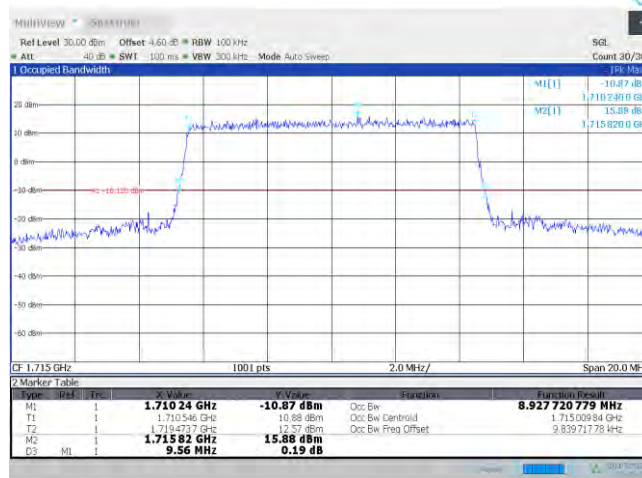
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Band4-5MHz-64QAM-20375-25RB#0



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



16:29:56 20.07.2022



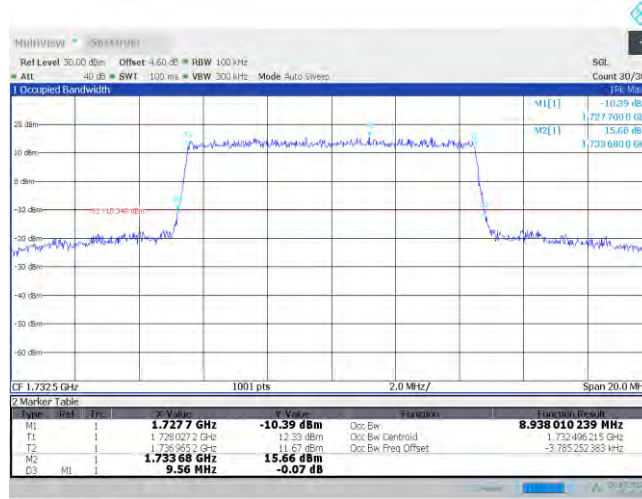
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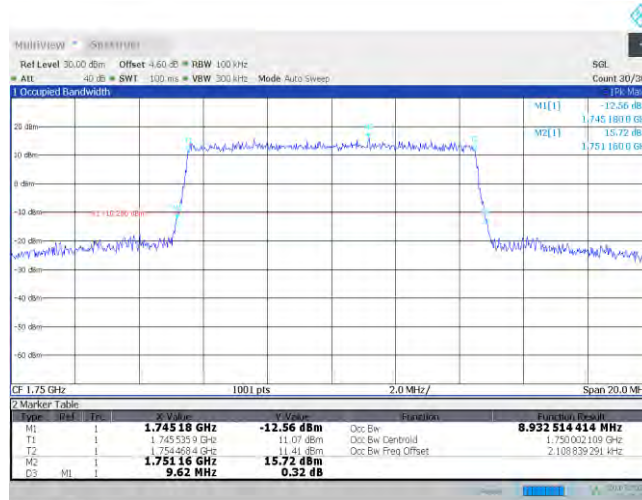
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Band4-10MHz-QPSK-20175-50RB#0



16:30:42 20.07.2022

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



16:31:29 20.07.2022

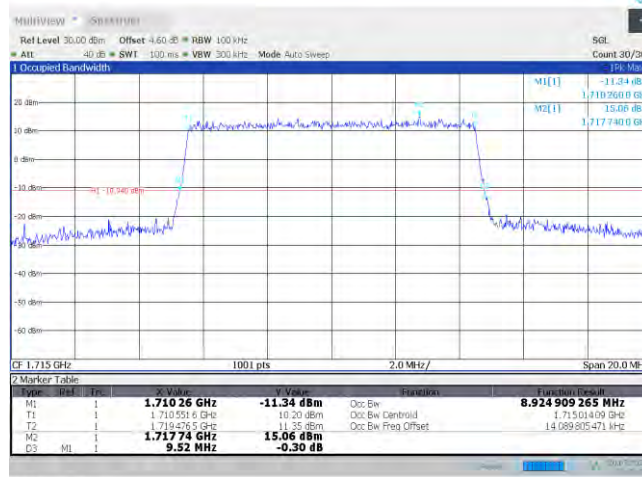


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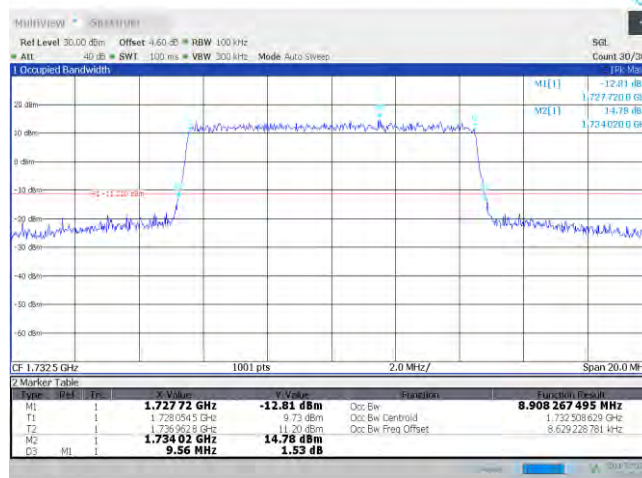
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Band4-10MHz-16QAM-20000-50RB#0



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



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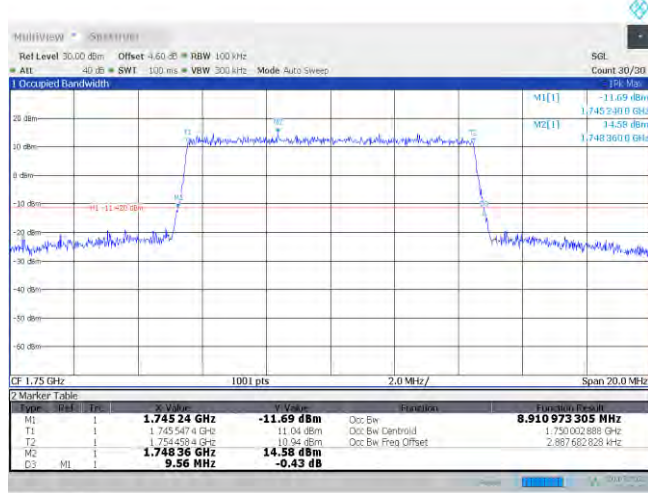
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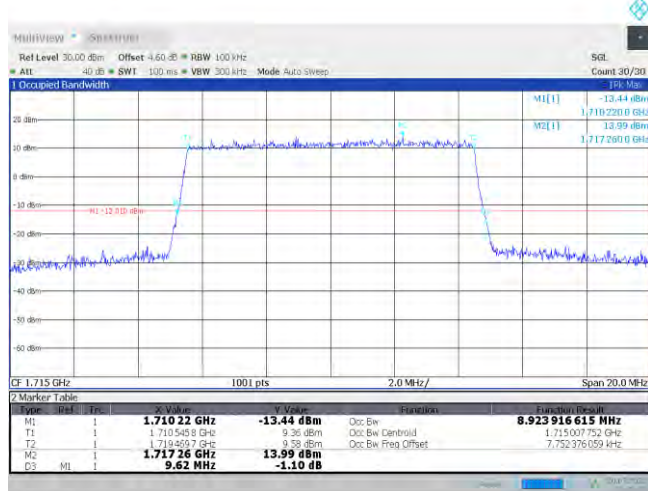
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Band4-10MHz-16QAM-20350-50RB#0



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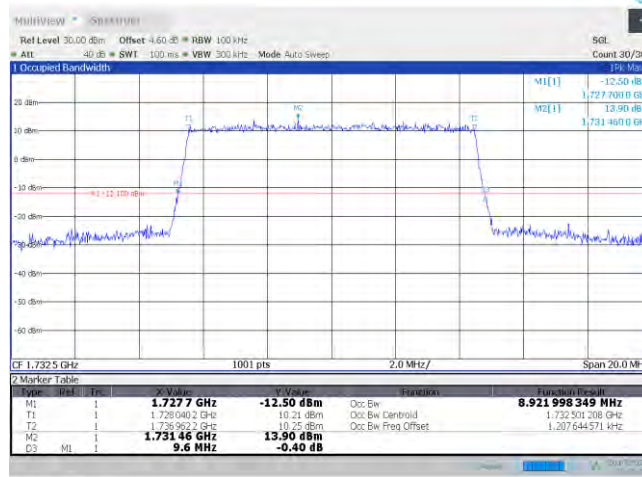


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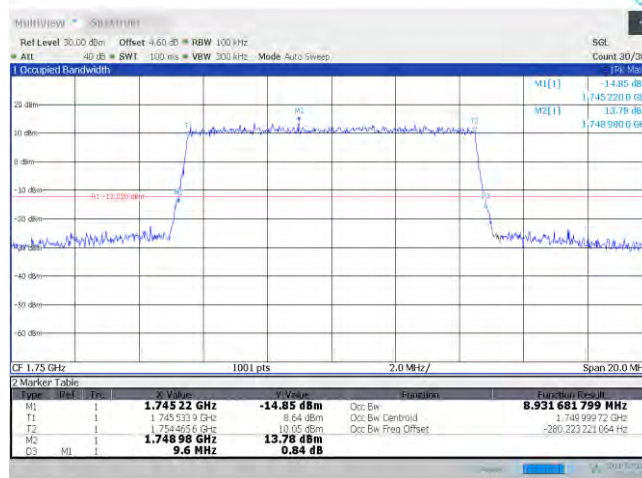
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16:31:13 20.07.2022

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



16:32:00 20.07.2022



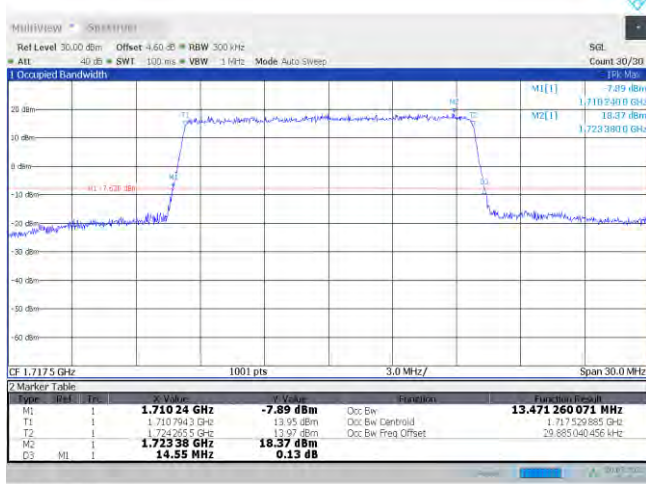
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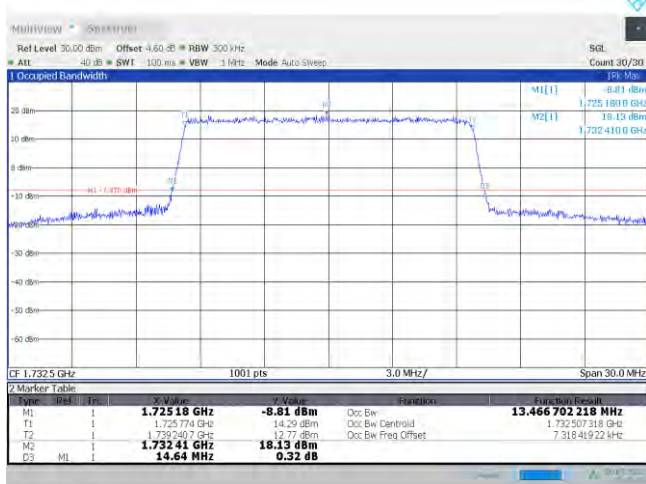
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Band4-15MHz-QPSK-20025-75RB#0



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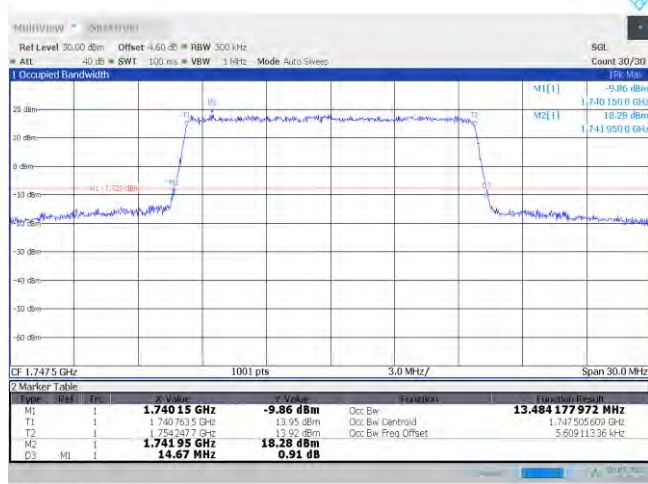


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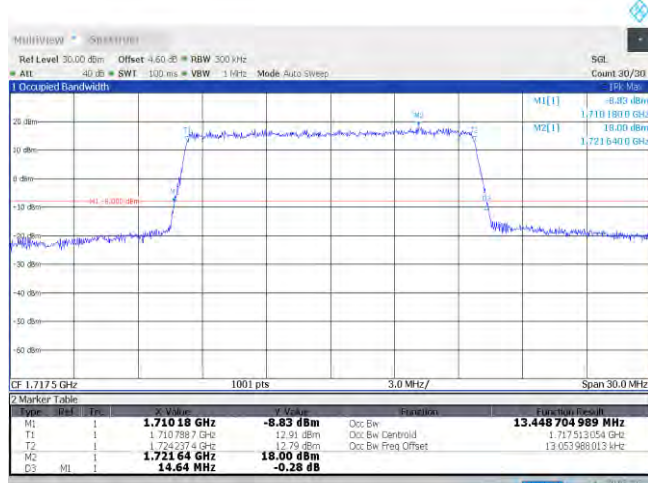
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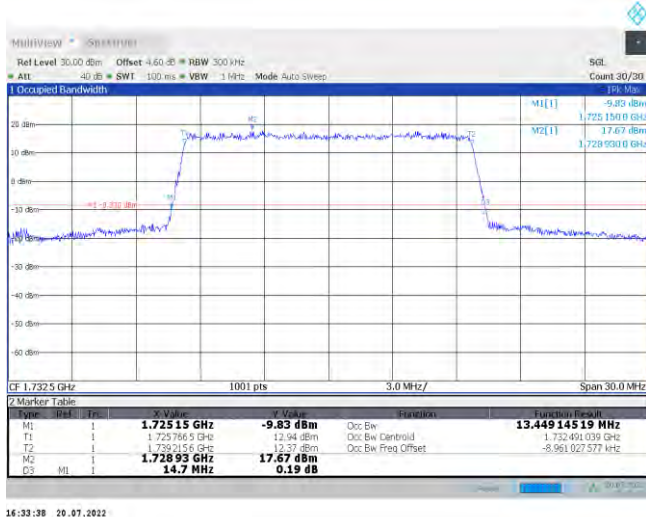


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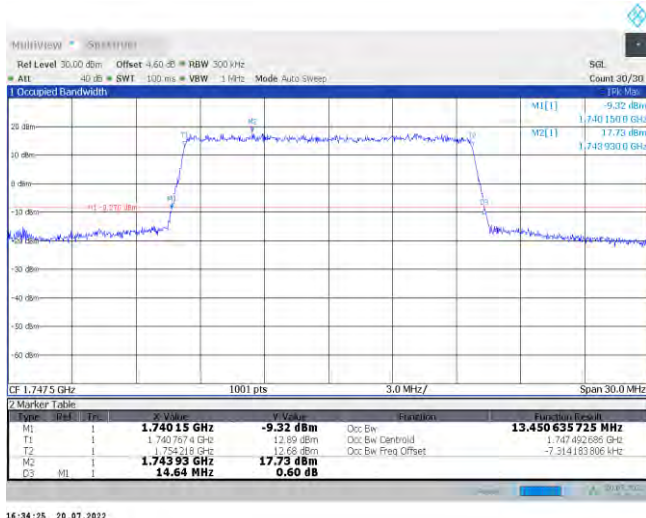
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Band4-15MHz-16QAM-20175-75RB#0



16:33:38 20.07.2022

Band4-15MHz-16QAM-20325-75RB#0

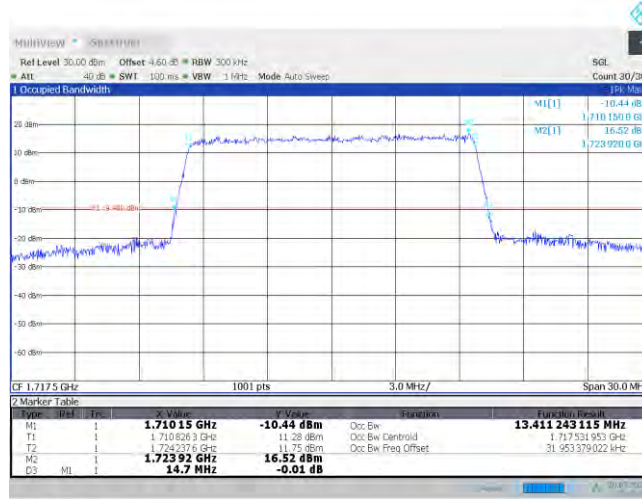


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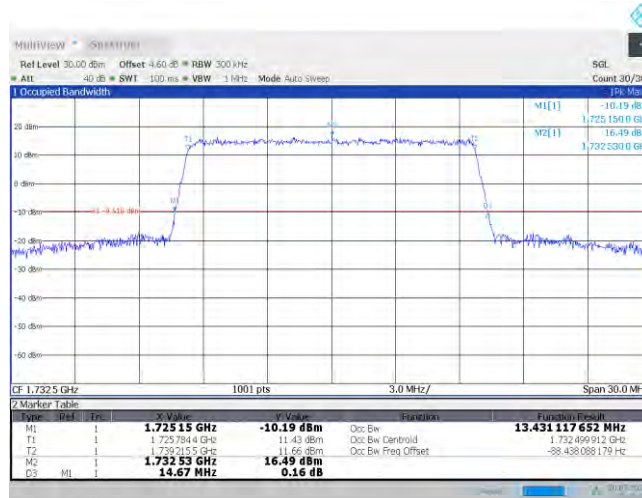
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Band4-15MHz-64QAM-20025-75RB#0



16:33:07 20.07.2022

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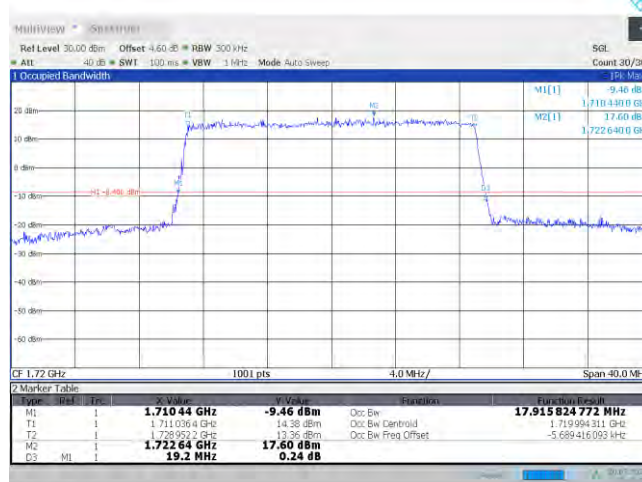
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Band4-15MHz-64QAM-20325-75RB#0



16:34:41 20.07.2022

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



16:35:17 20.07.2022

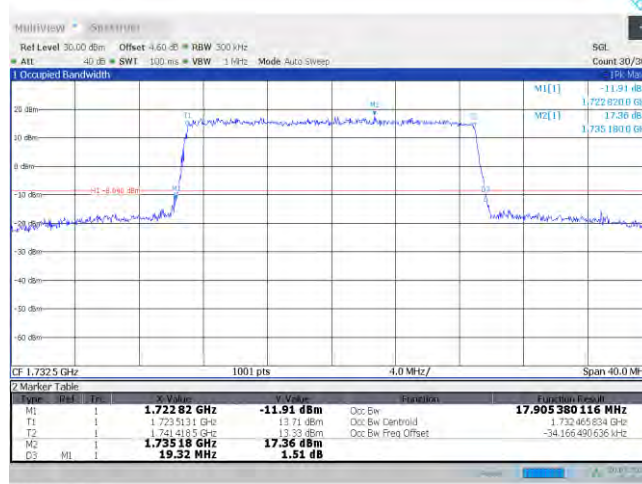


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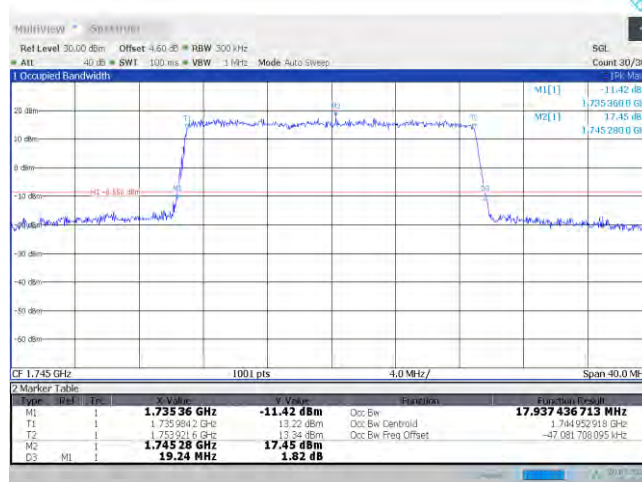
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Band4-20MHz-QPSK-20175-100RB#0



16:36:04 20.07.2022

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



16:36:50 20.07.2022



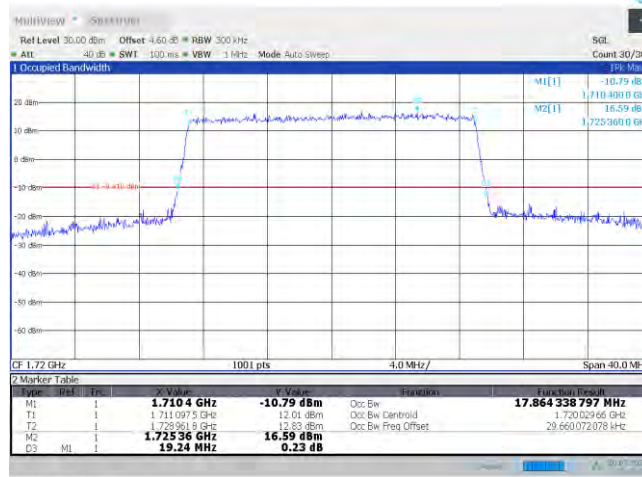
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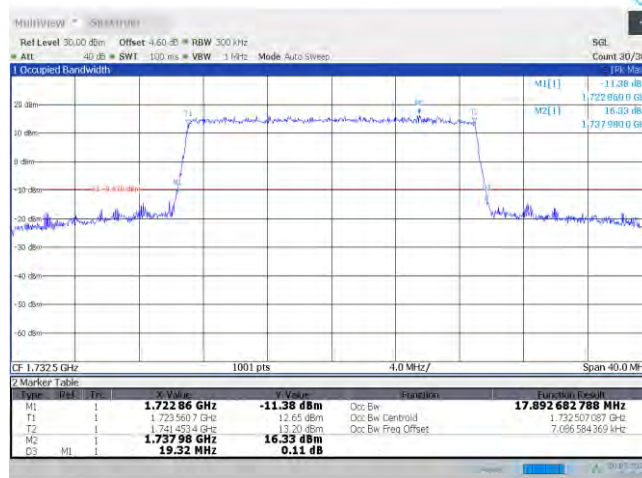
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Band4-20MHz-16QAM-20050-100RB#0



16:35:32 20.07.2022

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



16:36:19 20.07.2022

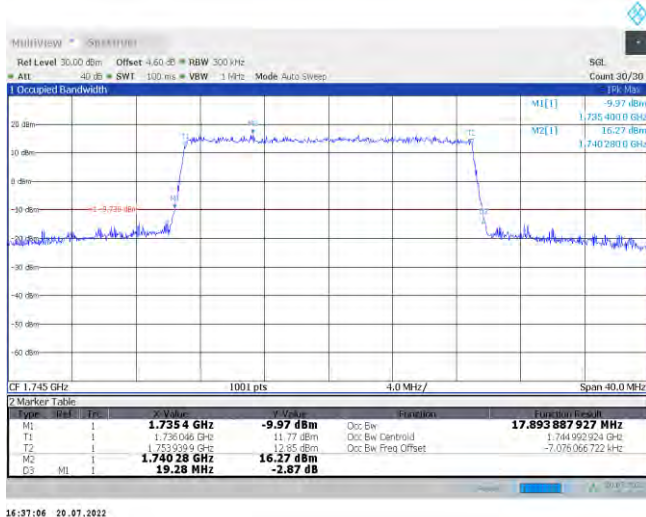


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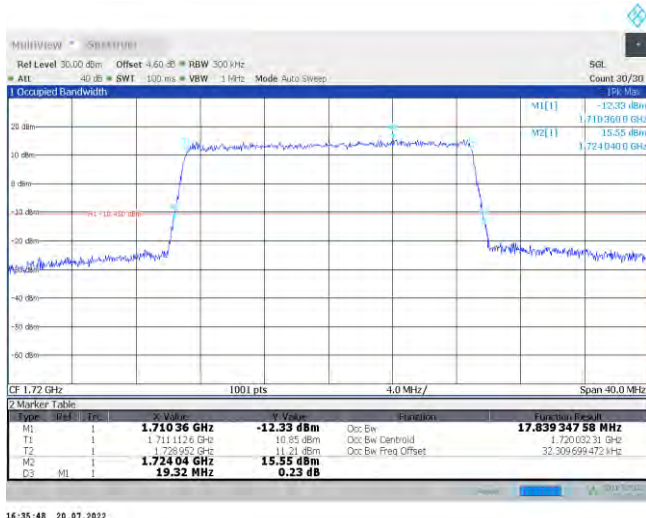
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Band4-20MHz-16QAM-20300-100RB#0



16:37:06 20.07.2022

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

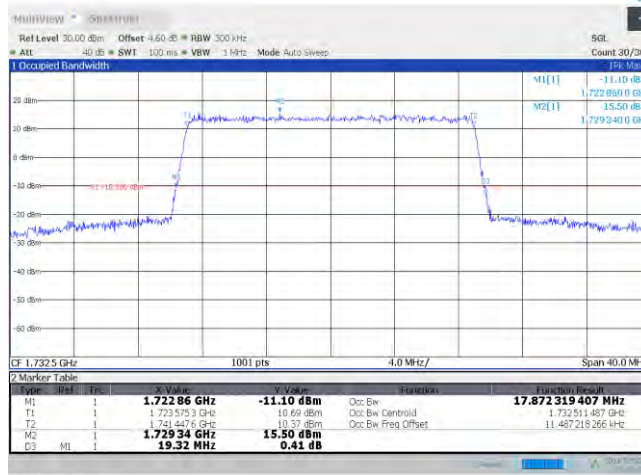


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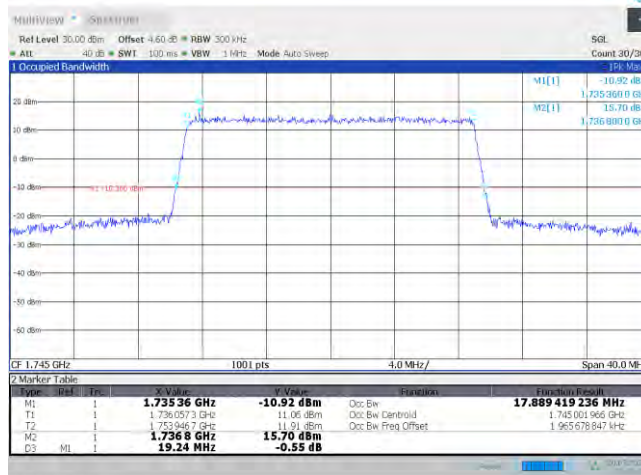
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Band4-20MHz-64QAM-20175-100RB#0



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



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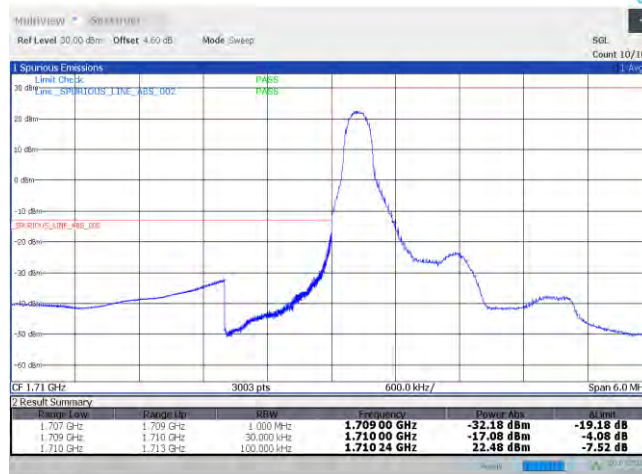
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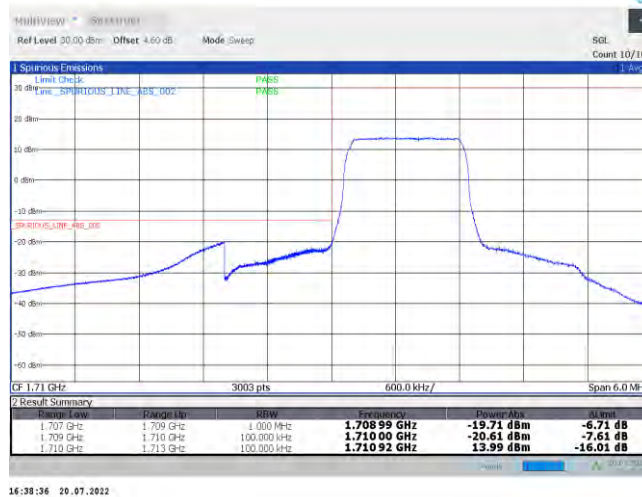
Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



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



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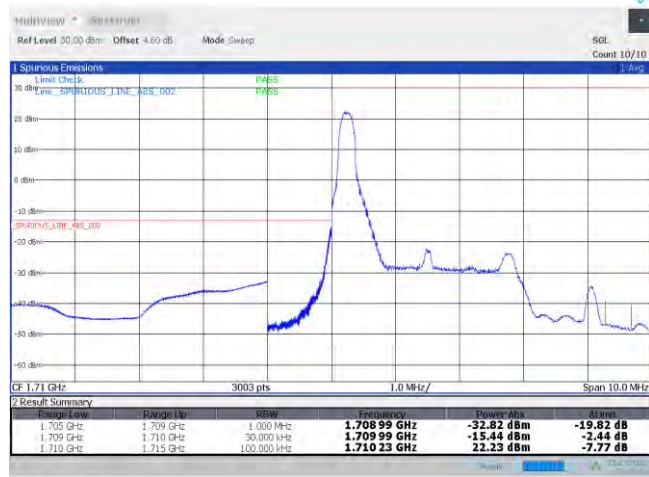


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Band4-3MHz-QPSK-19965-1RB#0



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



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



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



16:42:56 20.07.2022

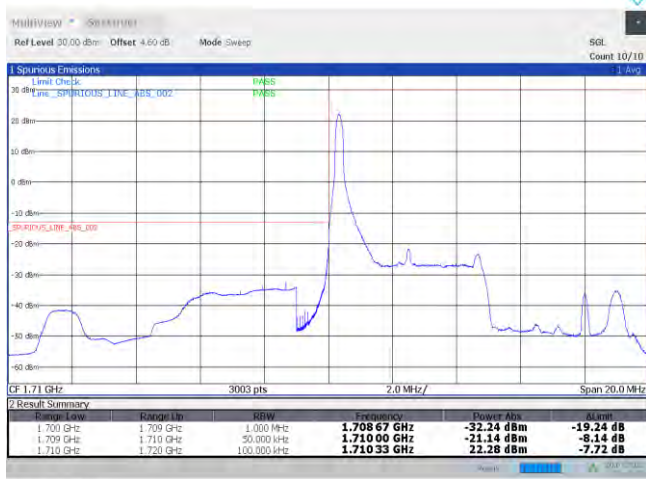


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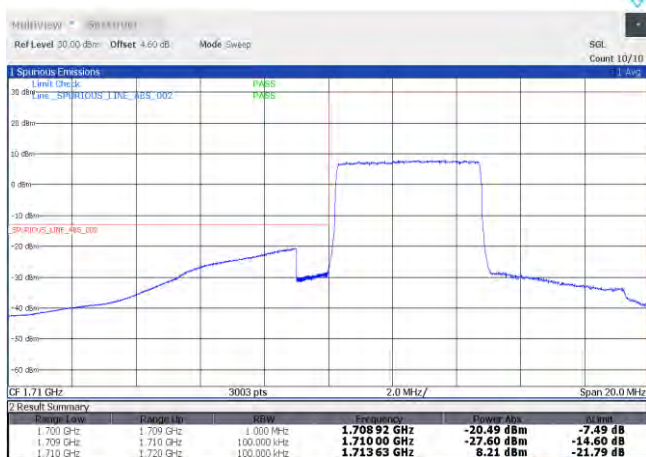
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Band4-5MHz-QPSK-19975-1RB#0



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



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



16:45:13 20.07.2022

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



16:45:37 20.07.2022



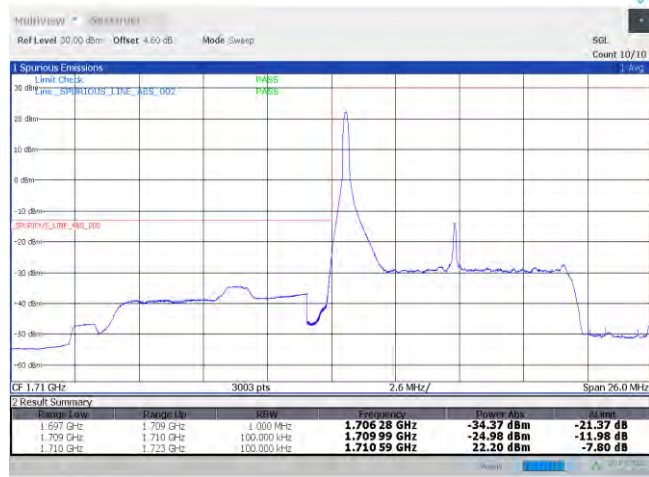
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Band4-10MHz-QPSK-20000-1RB#0



16:46:31 20.07.2022

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



16:46:53 20.07.2022

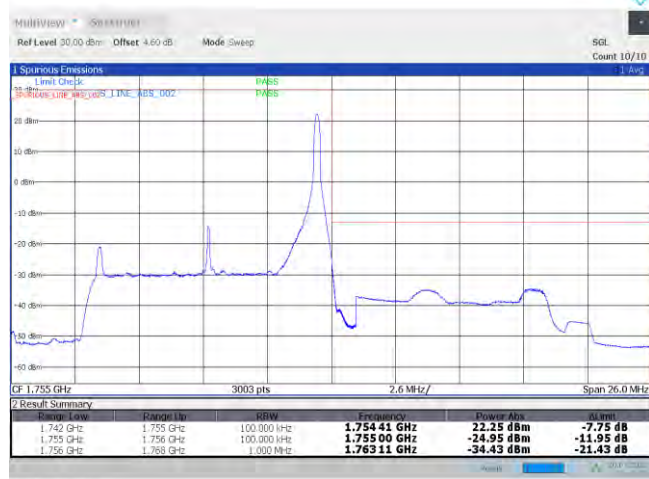


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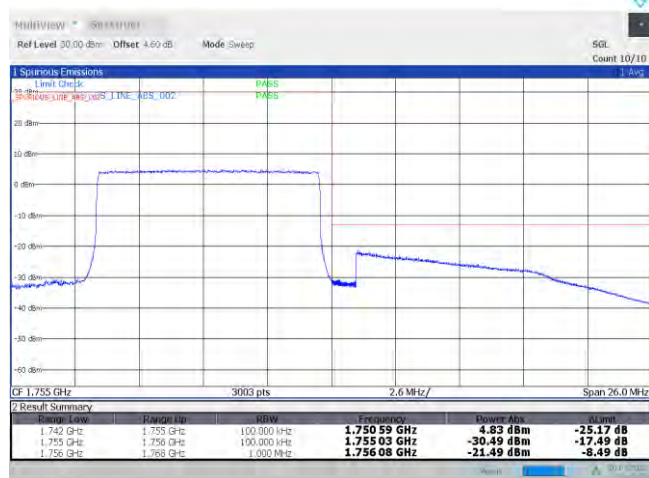
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Band4-10MHz-QPSK-20350-1RB#49



16:47:54 20.07.2022

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



16:48:16 20.07.2022



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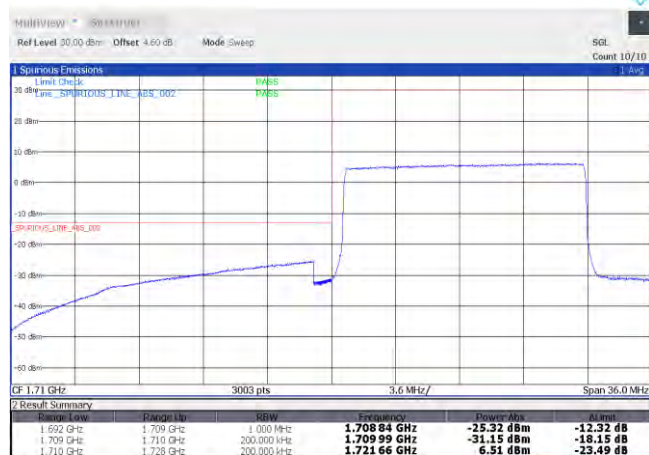
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Band4-15MHz-QPSK-20025-1RB#0



16:49:09 20.07.2022

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

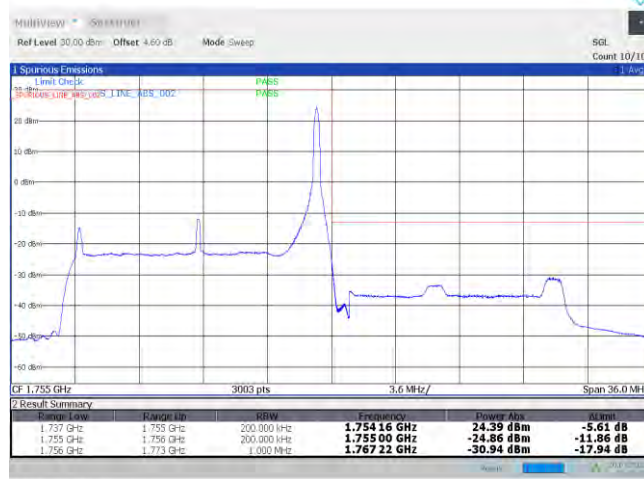


16:49:31 20.07.2022



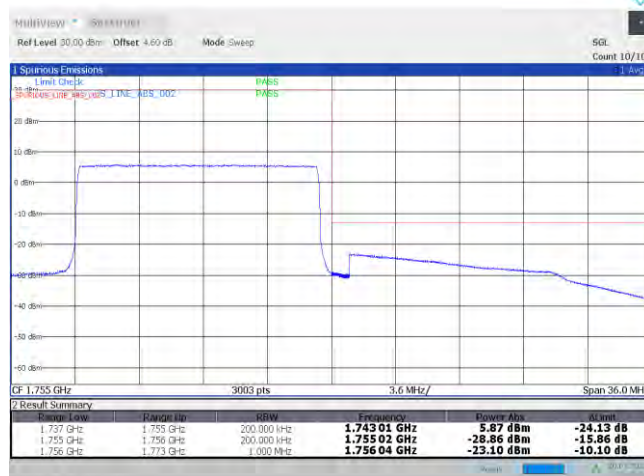
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Band4-15MHz-QPSK-20325-1RB#74



16:50:22 20.07.2022

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



16:50:44 20.07.2022



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



16:51:38 20.07.2022

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



16:52:02 20.07.2022



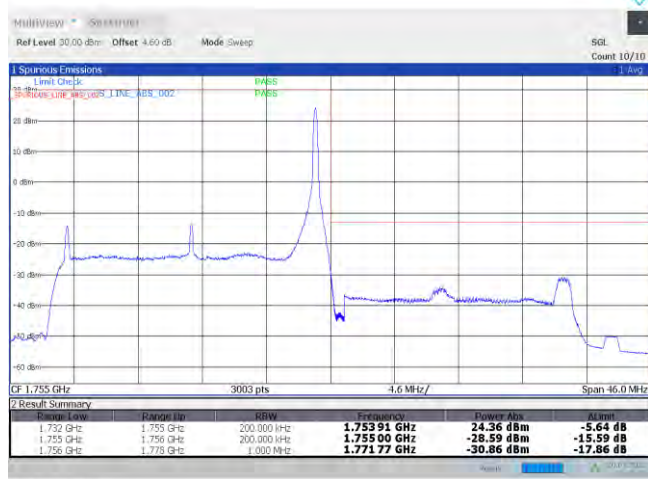
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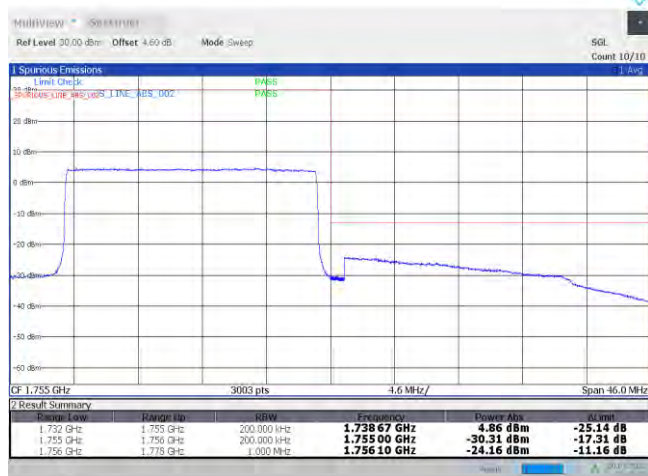
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Band4-20MHz-QPSK-20300-1RB#99



16:52:59 20.07.2022

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



16:53:23 20.07.2022



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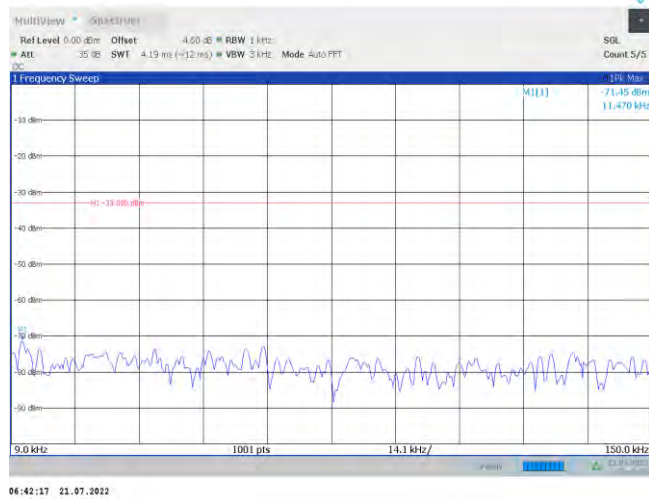
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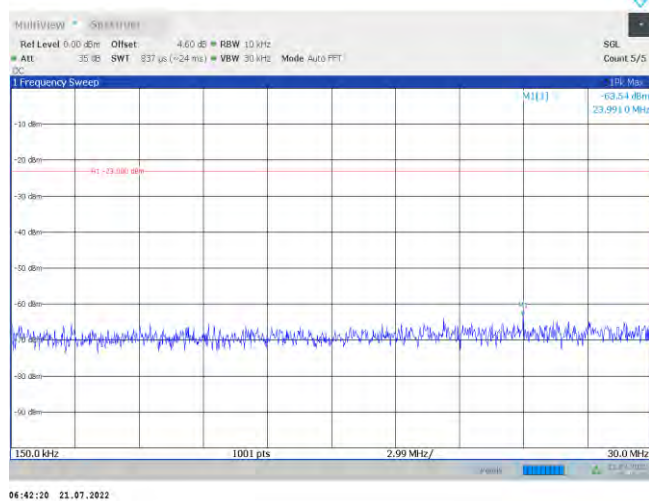
Conducted Spurious Emission

Test Graphs

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



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

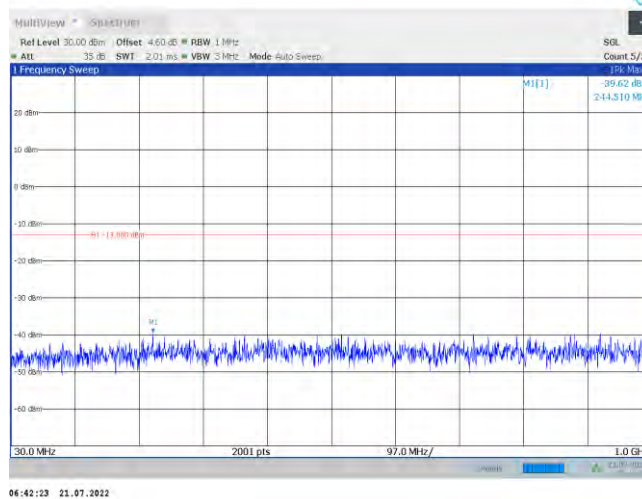


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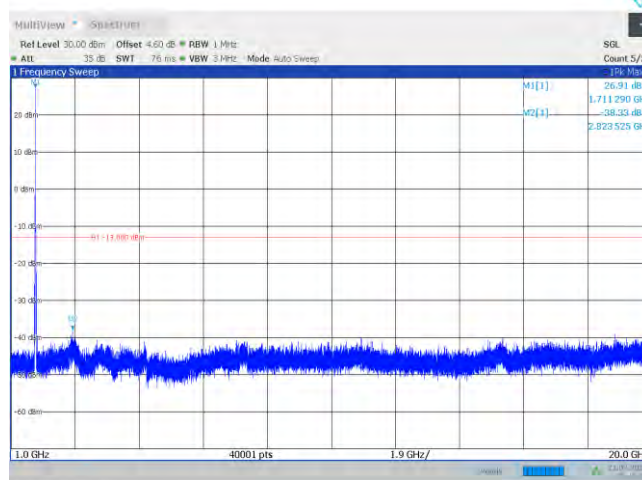
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



06:42:23 21.07.2022

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



06:42:27 21.07.2022



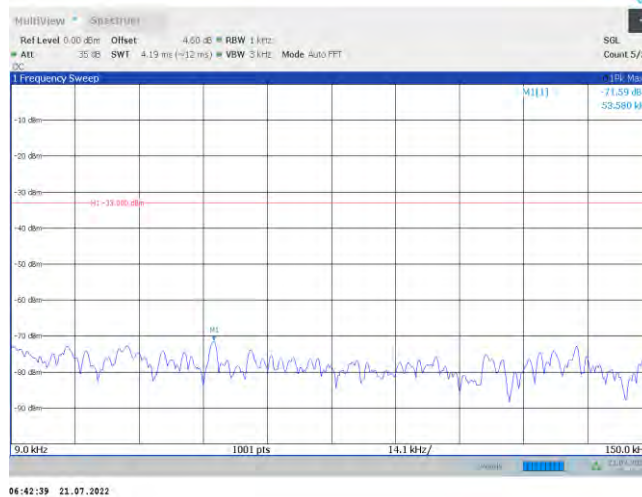
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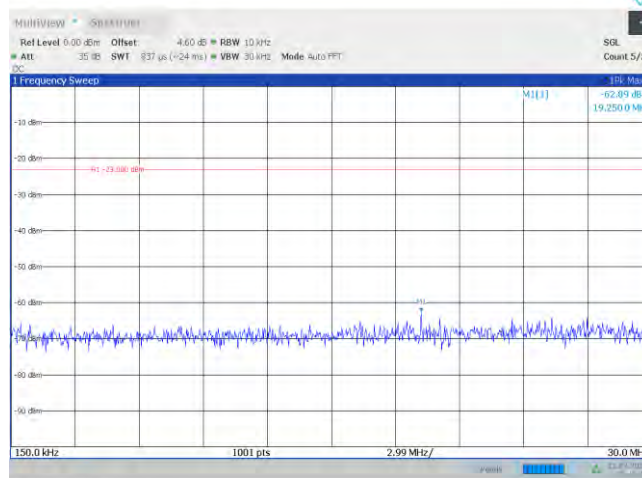
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



06:42:39 21.07.2022

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

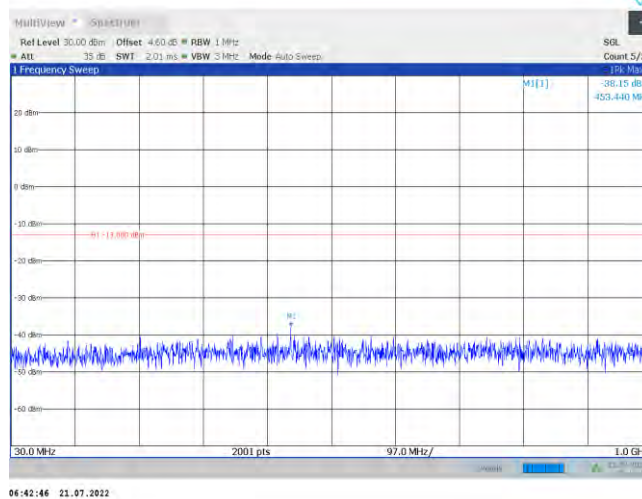


06:42:42 21.07.2022



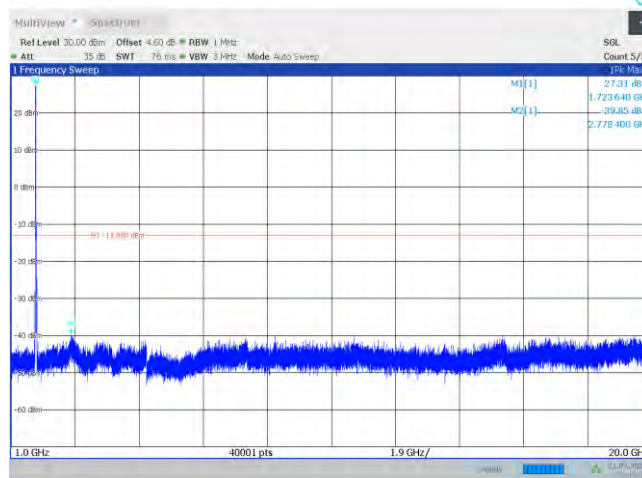
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



06:42:46 21.07.2022

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



06:42:49 21.07.2022



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Field Strength of Spurious Radiation

For Sample #1:

Test Band = LTE Band4_ 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	3422.1800	51.90	-46.28	29.45	-60.19	-13.00	47.19	266	60	Horizontal
2	5133.2700	50.04	-45.34	32.95	-57.61	-13.00	44.61	251	60	Horizontal
3	6844.3600	48.67	-44.14	35.89	-54.84	-13.00	41.84	100	120	Horizontal
4	8555.4500	45.68	-41.46	37.66	-53.38	-13.00	40.38	195	165	Horizontal
5	10266.5400	41.54	-39.23	38.83	-54.12	-13.00	41.12	235	224	Horizontal
6	11977.6300	37.45	-37.51	38.95	-56.38	-13.00	43.38	170	300	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	3422.1800	50.99	-46.28	29.45	-61.10	-13.00	48.10	258	194	Vertical
2	5133.2700	52.86	-45.34	32.95	-54.79	-13.00	41.79	145	179	Vertical
3	6844.3600	49.18	-44.14	35.89	-54.33	-13.00	41.33	263	148	Vertical
4	8555.4500	45.86	-41.46	37.66	-53.20	-13.00	40.20	291	286	Vertical
5	10266.5400	42.79	-39.23	38.83	-52.87	-13.00	39.87	145	359	Vertical
6	11977.6300	37.34	-37.51	38.95	-56.49	-13.00	43.49	172	317	Vertical



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Test Band = LTE Band4_ 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	3447.1800	51.70	-46.27	29.47	-60.36	-13.00	47.36	111	3	Horizontal
2	5170.7700	49.53	-45.31	32.97	-58.06	-13.00	45.06	191	210	Horizontal
3	6894.3600	48.12	-44.10	35.95	-55.29	-13.00	42.29	178	44	Horizontal
4	8617.9500	46.95	-41.40	37.78	-51.93	-13.00	38.93	145	104	Horizontal
5	10341.5400	42.35	-39.06	38.85	-53.12	-13.00	40.12	291	30	Horizontal
6	12065.1300	39.20	-37.44	39.02	-54.48	-13.00	41.48	236	344	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	3447.1800	52.01	-46.27	29.47	-60.05	-13.00	47.05	144	194	Vertical
2	5170.7700	51.34	-45.31	32.97	-56.25	-13.00	43.25	172	329	Vertical
3	6894.3600	48.82	-44.10	35.95	-54.59	-13.00	41.59	126	300	Vertical
4	8617.9500	47.38	-41.40	37.78	-51.50	-13.00	38.50	291	43	Vertical
5	10341.5400	44.79	-39.06	38.85	-50.68	-13.00	37.68	145	359	Vertical
6	12065.1300	38.65	-37.44	39.02	-55.03	-13.00	42.03	233	134	Vertical



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Test Band = LTE Band4_ 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	3472.1800	51.15	-46.27	29.50	-60.88	-13.00	47.88	155	287	Horizontal
2	5208.2700	50.32	-45.26	32.98	-57.22	-13.00	44.22	236	46	Horizontal
3	6944.3600	48.38	-43.85	36.01	-54.72	-13.00	41.72	261	60	Horizontal
4	8680.4500	47.08	-41.62	37.88	-51.92	-13.00	38.92	145	105	Horizontal
5	10416.5400	41.62	-38.97	38.88	-53.74	-13.00	40.74	199	105	Horizontal
6	12152.6300	39.68	-37.42	39.09	-53.91	-13.00	40.91	170	4	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	3472.1800	53.51	-46.27	29.50	-58.52	-13.00	45.52	211	196	Vertical
2	5208.2700	56.46	-45.26	32.98	-51.08	-13.00	38.08	145	332	Vertical
3	6944.3600	47.99	-43.85	36.01	-55.11	-13.00	42.11	175	44	Vertical
4	8680.4500	45.73	-41.62	37.88	-53.27	-13.00	40.27	136	196	Vertical
5	10416.5400	45.37	-38.97	38.88	-49.99	-13.00	36.99	261	359	Vertical
6	12152.6300	38.92	-37.42	39.09	-54.67	-13.00	41.67	199	61	Vertical

Remark:

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

Level = Reading Level(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV - 95.26



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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	2.80	0.001616	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-3.70	-0.002136	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-3.70	-0.002136	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	1.70	0.000981	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	2.60	0.001501	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-4.20	-0.002424	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	-0.20	-0.000115	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-1.80	-0.001039	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-5.10	-0.002944	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-7.30	-0.004214	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-1.20	-0.000693	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	3.50	0.002020	PASS

---End of Attachment---



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