Appendix D: Test Results of LTE Band 4 operation

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.76	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.80	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.75	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.81	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.82	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	22.75	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.78	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.86	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.83	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.86	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.78	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.77	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.70	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.72	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	22.87	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	22.81	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	22.85	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	22.93	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	22.89	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	22.92	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.83	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.69	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.77	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.82	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.68	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.72	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.74	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.80	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.63	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.63	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.70	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.72	PASS

Band4	1.4MHz	16QAM	20175	3RB#1	21.72	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.70	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.61	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	21.87	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.96	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	21.94	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.81	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.95	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.84	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.99	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.48	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.46	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.48	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.52	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.51	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.53	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.54	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.52	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.60	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.59	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.48	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.47	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.47	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.51	PASS
Band4	3MHz	QPSK	20385	1RB#14	22.66	PASS
Band4	3MHz	QPSK	20385	1RB#8	22.65	PASS
Band4	3MHz	QPSK	20385	1RB#0	22.67	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.65	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.65	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.59	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.64	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.55	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.50	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.52	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.62	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.62	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.64	PASS

Band4	3MHz	16QAM	19965	15RB#0	20.68	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.37	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.32	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.34	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.51	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.50	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.47	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.45	PASS
Band4	3MHz	16QAM	20385	1RB#14	21.54	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.60	PASS
Band4	3MHz	16QAM	20385	1RB#8	21.62	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.72	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.74	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.72	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.71	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.51	PASS
Band4	5MHz	QPSK	19975	1RB#12	22.61	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.54	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.56	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.56	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.53	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.54	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.63	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.50	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.66	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.53	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.53	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.53	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.46	PASS
Band4	5MHz	QPSK	20375	1RB#0	22.62	PASS
Band4	5MHz	QPSK	20375	1RB#12	22.77	PASS
Band4	5MHz	QPSK	20375	1RB#24	22.61	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.71	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.71	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.63	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.69	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.67	PASS

Band4	5MHz	16QAM	19975	1RB#12	21.74	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.63	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.69	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.73	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.73	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.63	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.54	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.64	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.56	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.60	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.60	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.64	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.38	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.82	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.78	PASS
Band4	5MHz	16QAM	20375	1RB#12	21.96	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.91	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.90	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.83	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.81	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.54	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.46	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.45	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.62	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.63	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.51	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.59	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.70	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.51	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.62	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.54	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.53	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.61	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.57	PASS
Band4	10MHz	QPSK	20350	1RB#24	22.65	PASS
Band4	10MHz	QPSK	20350	1RB#49	22.63	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.62	PASS

Band4	10MHz	QPSK	20350	25RB#0	21.71	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.68	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.77	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.76	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.61	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.61	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.63	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.63	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.62	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.64	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.70	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.43	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.46	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.38	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.65	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.67	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.67	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.63	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.79	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.72	PASS
Band4	10MHz	16QAM	20350	1RB#0	21.74	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.83	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.80	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.80	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.81	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.37	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.47	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.39	PASS
Band4	15MHz	QPSK	20025	36RB#39	21.56	PASS
Band4	15MHz	QPSK	20025	36RB#18	21.54	PASS
Band4	15MHz	QPSK	20025	36RB#0	21.52	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.56	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.60	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.52	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.43	PASS
Band4	15MHz	QPSK	20175	36RB#0	21.54	PASS
Band4	15MHz	QPSK	20175	36RB#39	21.64	PASS

Band4	15MHz	QPSK	20175	36RB#18	21.51	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.61	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.55	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.64	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.61	PASS
Band4	15MHz	QPSK	20325	36RB#18	21.71	PASS
Band4	15MHz	QPSK	20325	36RB#0	21.69	PASS
Band4	15MHz	QPSK	20325	36RB#39	21.72	PASS
Band4	15MHz	QPSK	20325	75RB#0	21.74	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.68	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.69	PASS
Band4	15MHz	16QAM	20025	1RB#38	21.66	PASS
Band4	15MHz	16QAM	20025	36RB#0	20.67	PASS
Band4	15MHz	16QAM	20025	36RB#39	20.73	PASS
Band4	15MHz	16QAM	20025	36RB#18	20.66	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.73	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.60	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.63	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.56	PASS
Band4	15MHz	16QAM	20175	36RB#18	20.60	PASS
Band4	15MHz	16QAM	20175	36RB#0	20.56	PASS
Band4	15MHz	16QAM	20175	36RB#39	20.68	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.63	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.87	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.76	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.90	PASS
Band4	15MHz	16QAM	20325	36RB#0	20.83	PASS
Band4	15MHz	16QAM	20325	36RB#39	20.94	PASS
Band4	15MHz	16QAM	20325	36RB#18	20.83	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.81	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.52	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.43	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.55	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.55	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.54	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.57	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.61	PASS

Band4	20MHz	QPSK	20175	1RB#99	22.69	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.47	PASS
Band4	20MHz	QPSK	20175	1RB#49	22.57	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.54	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.56	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.63	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.59	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.63	PASS
Band4	20MHz	QPSK	20300	1RB#49	22.71	PASS
Band4	20MHz	QPSK	20300	1RB#99	22.66	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.64	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.65	PASS
Band4	20MHz	QPSK	20300	50RB#50	21.75	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.68	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.70	PASS
Band4	20MHz	16QAM	20050	1RB#49	21.75	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.75	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.72	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.60	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.60	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.73	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.52	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.54	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.63	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.66	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.66	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.65	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.64	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.73	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.91	PASS
Band4	20MHz	16QAM	20300	1RB#49	21.90	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.69	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.70	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.88	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.78	PASS

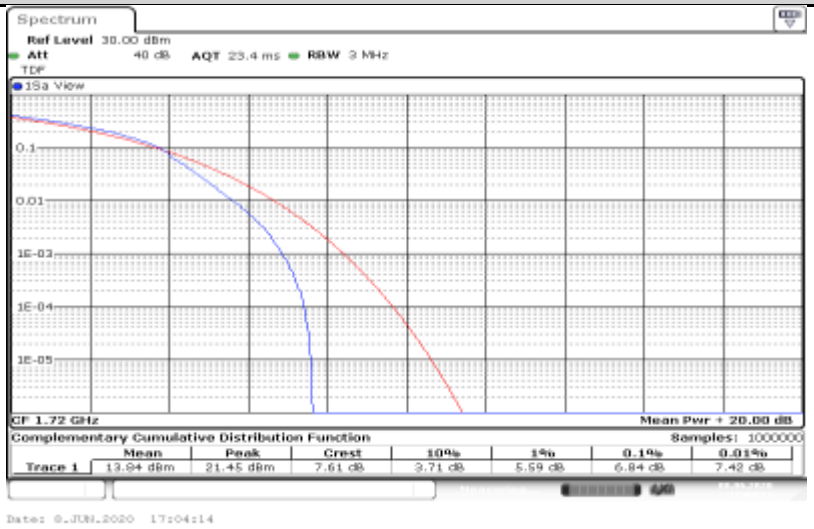
2. Peak-to-Average Ratio (CCDF)

2.1 Test Result

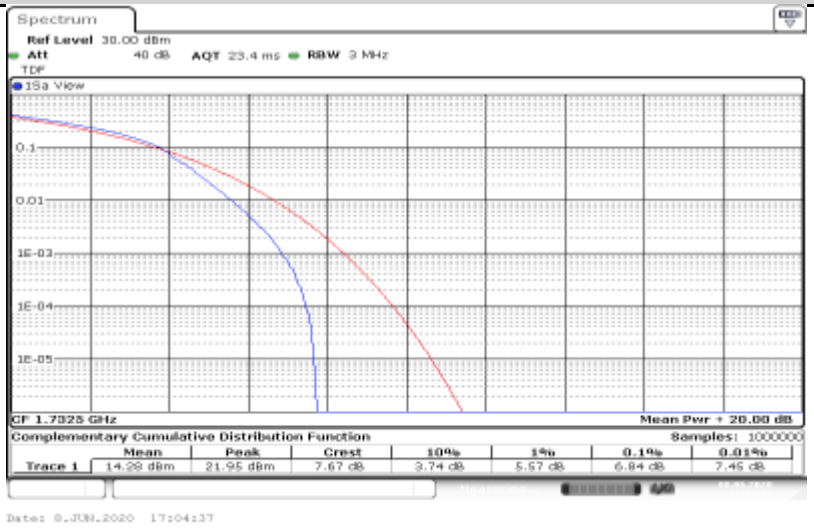
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	6.84	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	6.84	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	6.90	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	7.45	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	7.33	13	PASS
Band4	20MHz	16QAM	20300	100RB#0	7.36	13	PASS

2.2 Test Graphs

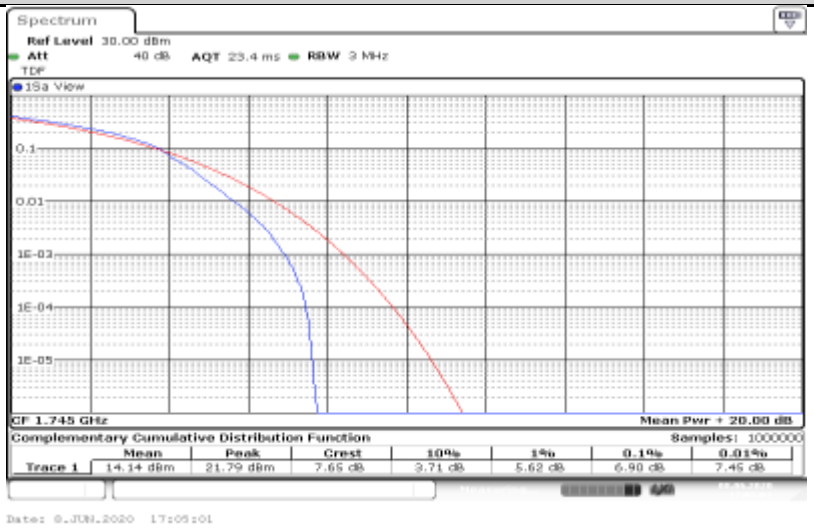
Band4-20MHz-QPSK-20050-100RB#0



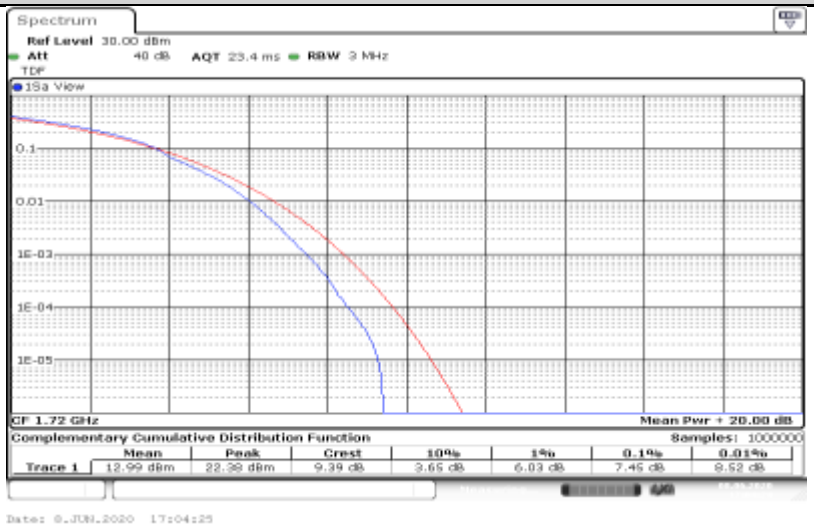
Band4-20MHz-QPSK-20175-100RB#0



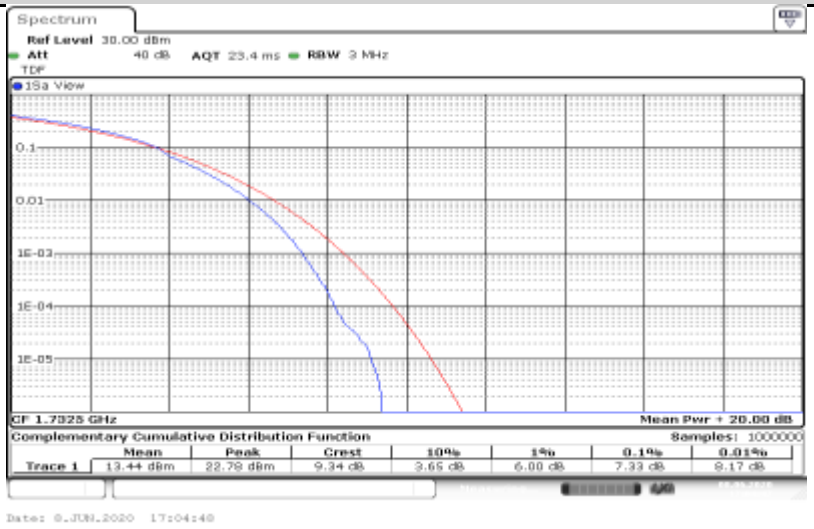
Band4-20MHz-QPSK-20300-100RB#0



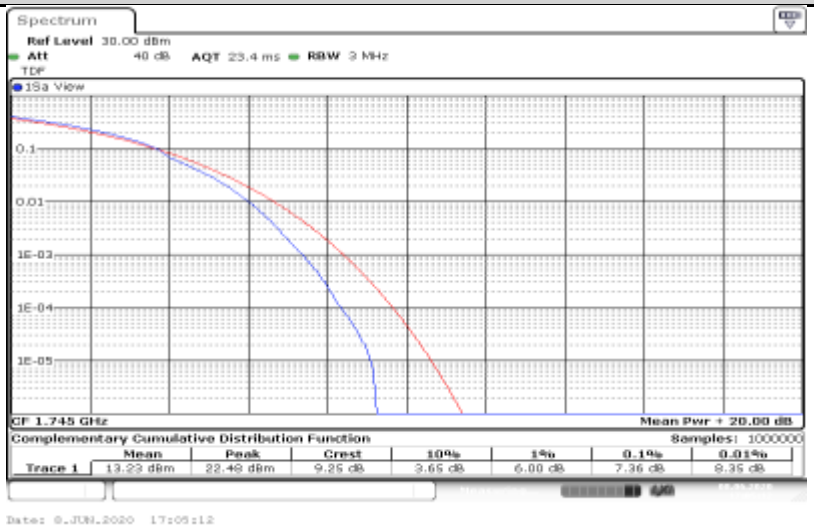
Band4-20MHz-16QAM-20050-100RB#0



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



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



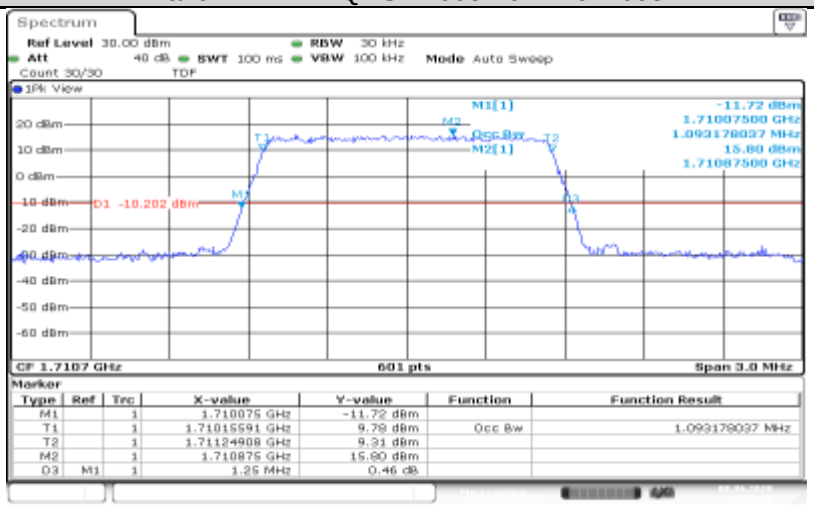
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

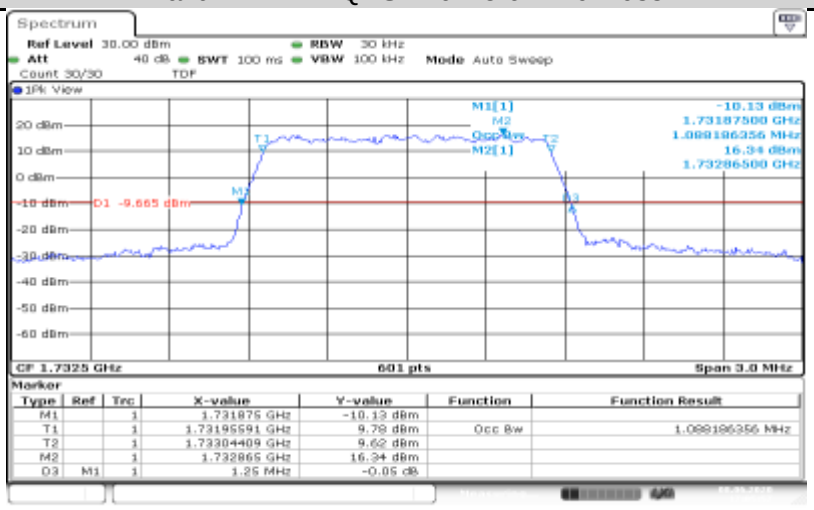
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.093	1.250	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.088	1.250	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.088	1.255	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.240	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.093	1.255	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.093	1.255	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.705	3.010	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	3.000	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.990	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	3.010	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	3.010	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.696	3.010	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.476	4.930	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.466	4.920	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.486	4.940	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.476	4.860	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.486	4.920	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.476	4.860	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.952	9.733	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.918	9.700	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.952	9.800	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.918	9.667	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.918	9.733	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.952	9.633	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.478	14.850	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.428	14.950	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.527	14.850	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.478	14.750	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.478	14.750	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.527	14.700	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.903	19.467	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.903	19.400	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.903	19.467	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.97	19.533	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.903	19.533	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.903	19.467	PASS

3.2 Test Graphs

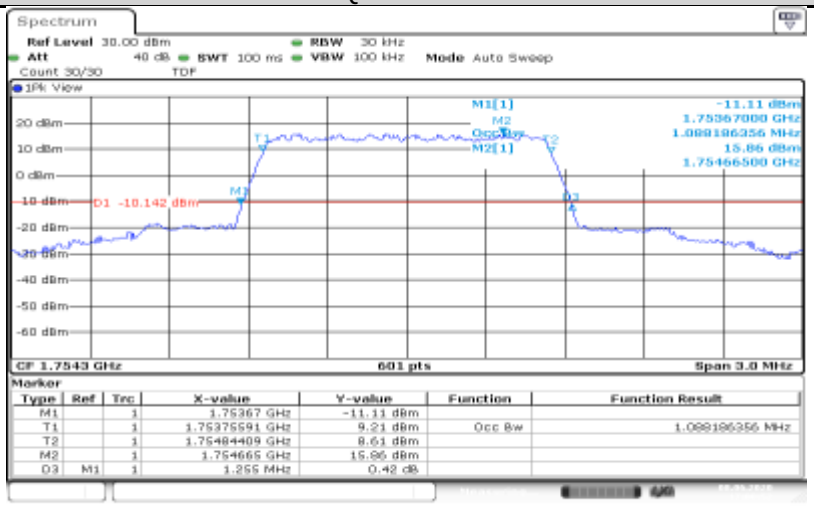
Band4-1.4MHz-QPSK-19957-6RB#0-1.093



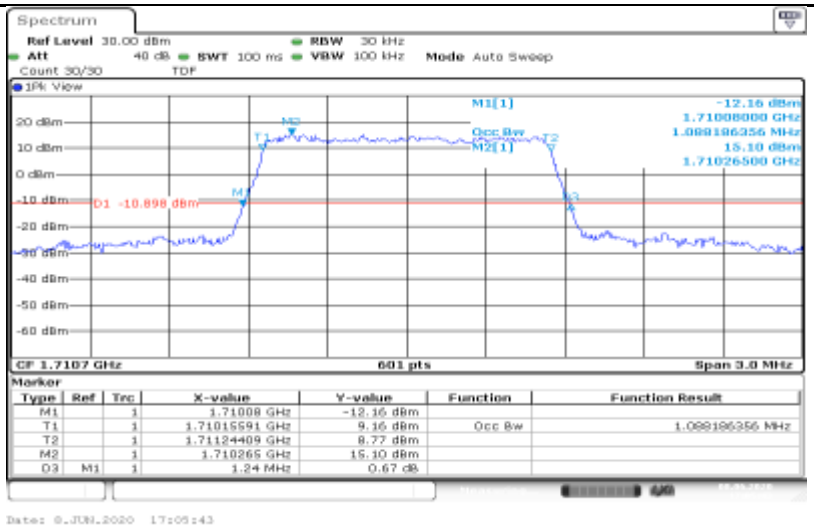
Band4-1.4MHz-QPSK-20175-6RB#0-1.088



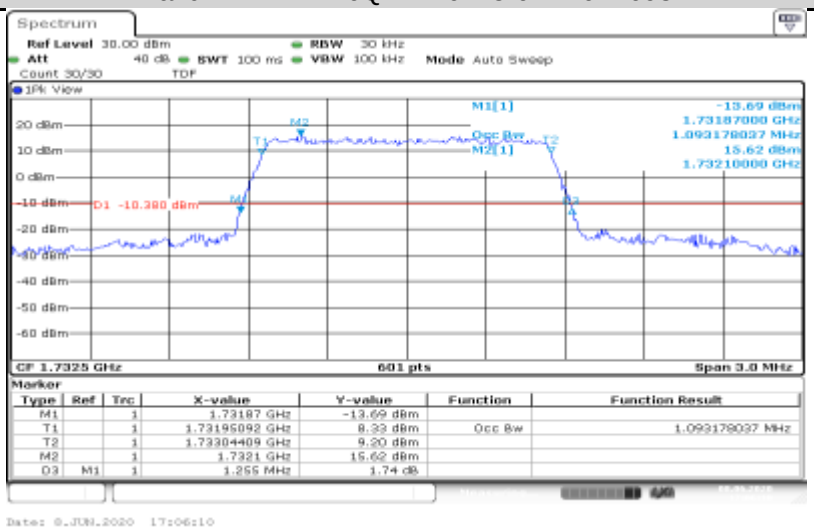
Band4-1.4MHz-QPSK-20393-6RB#0-1.088



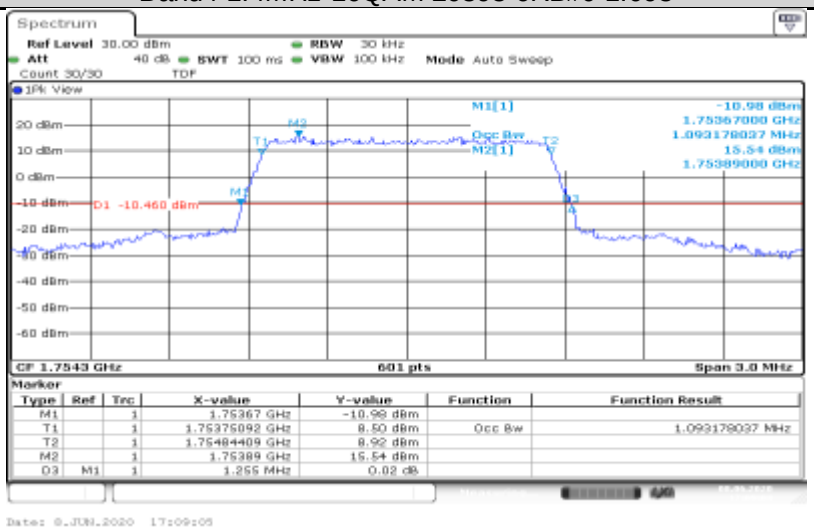
Band4-1.4MHz-16QAM-19957-6RB#0-1.088



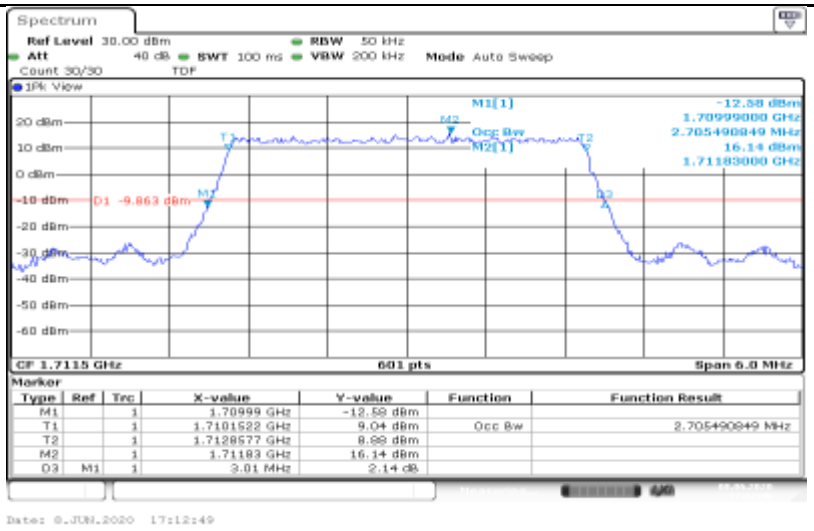
Band4-1.4MHz-16QAM-20175-6RB#0-1.093



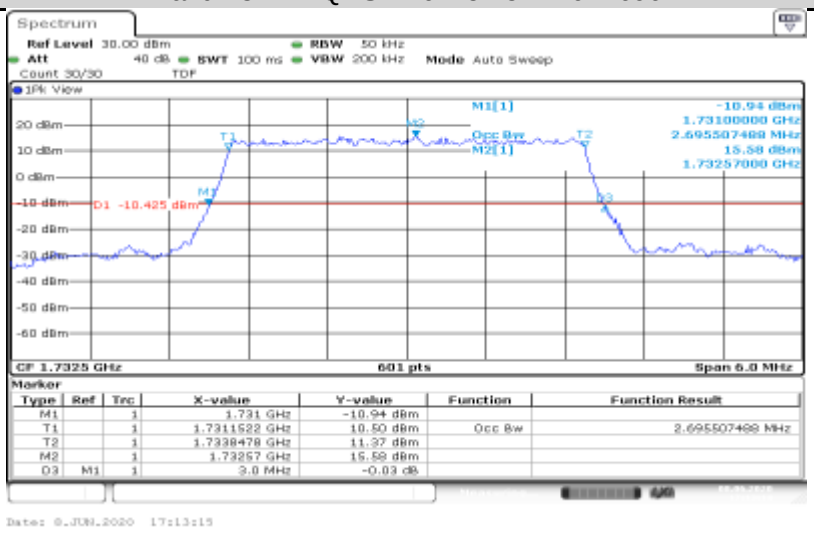
Band4-1.4MHz-16QAM-20393-6RB#0-1.093



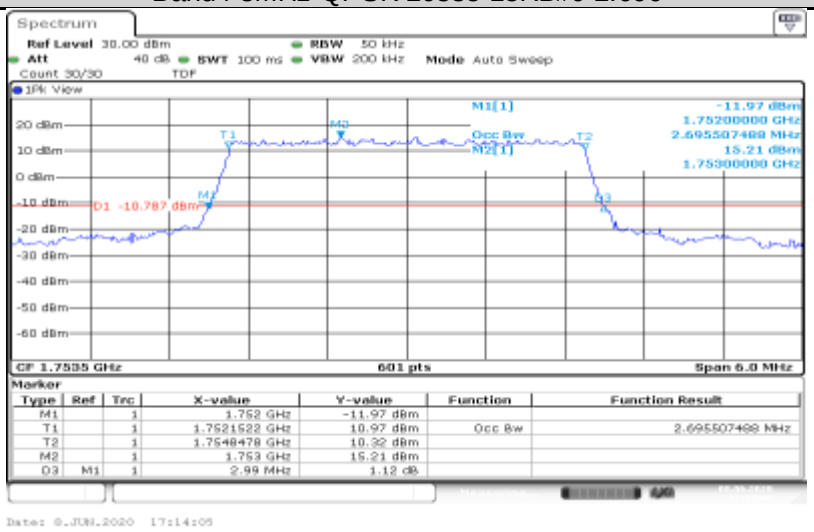
Band4-3MHz-QPSK-19965-15RB#0-2.705



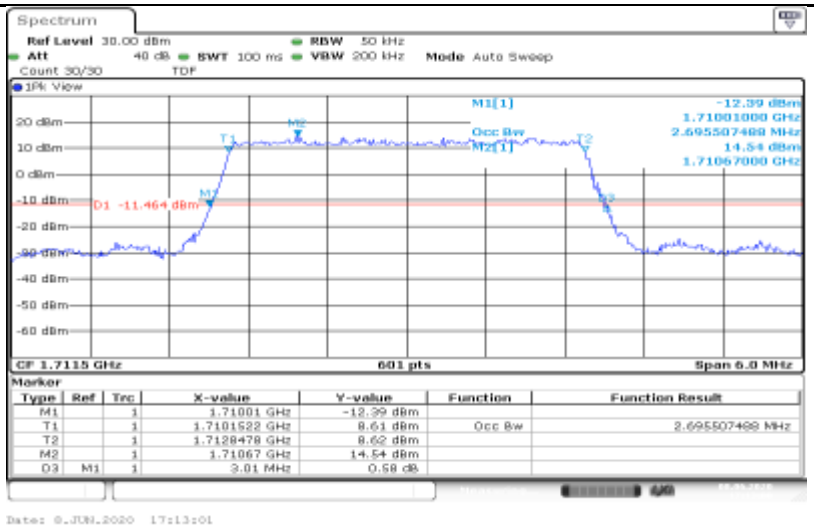
Band4-3MHz-QPSK-20175-15RB#0-2.696



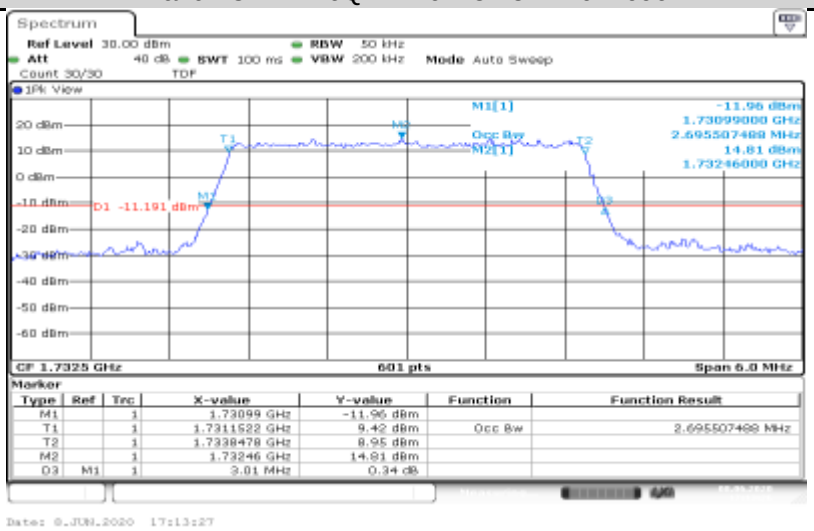
Band4-3MHz-QPSK-20385-15RB#0-2.696



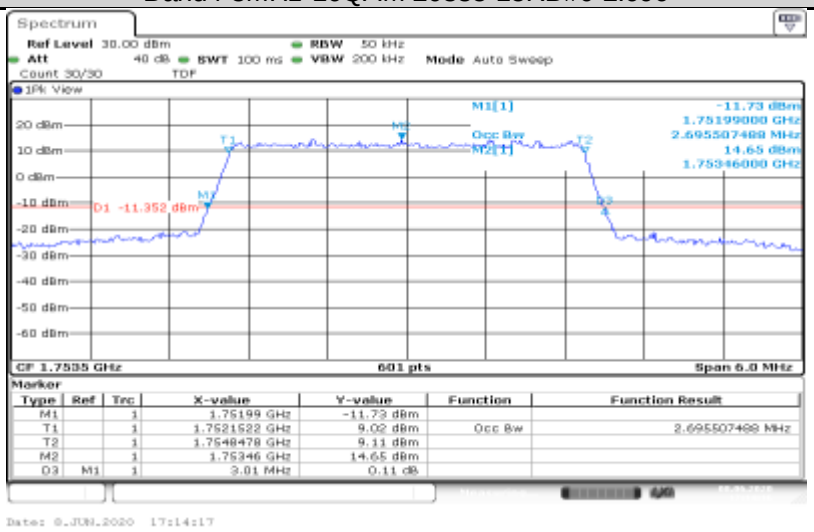
Band4-3MHz-16QAM-19965-15RB#0-2.696



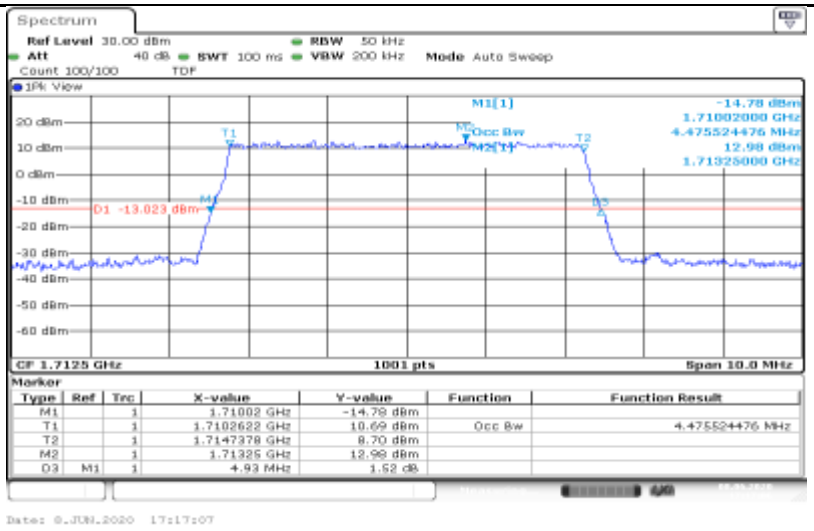
Band4-3MHz-16QAM-20175-15RB#0-2.696



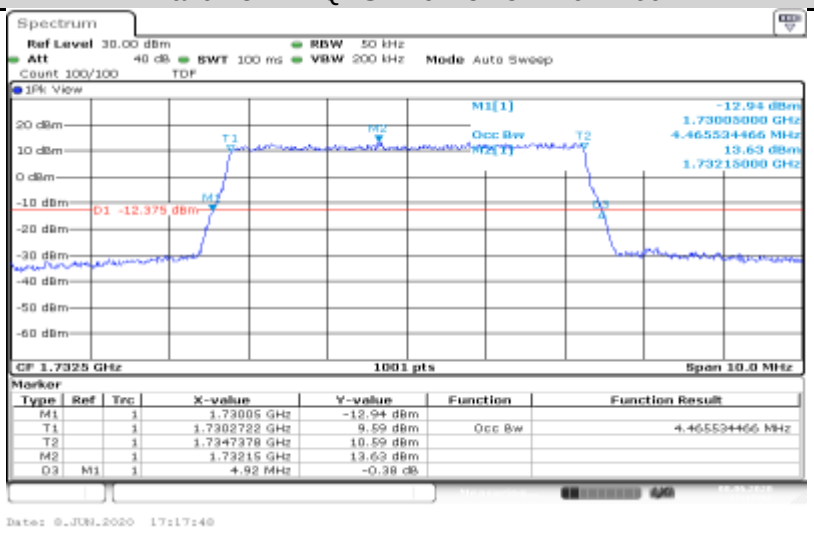
Band4-3MHz-16QAM-20385-15RB#0-2.696



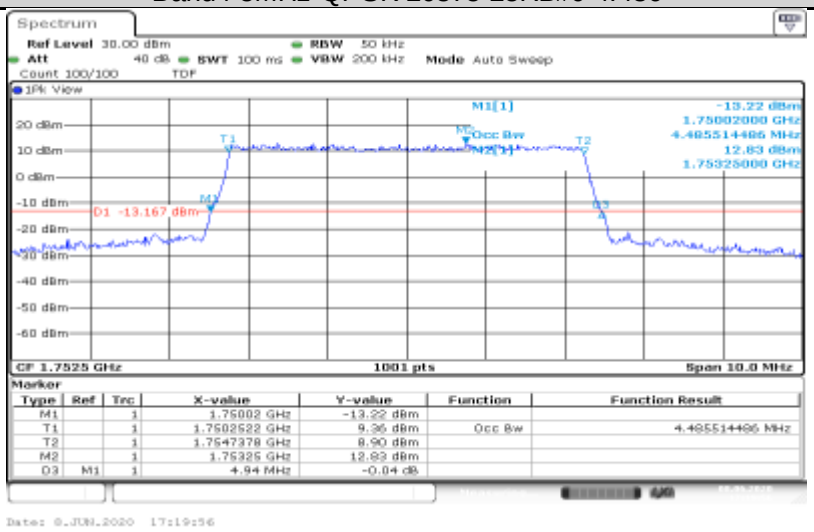
Band4-5MHz-QPSK-19975-25RB#0-4.476



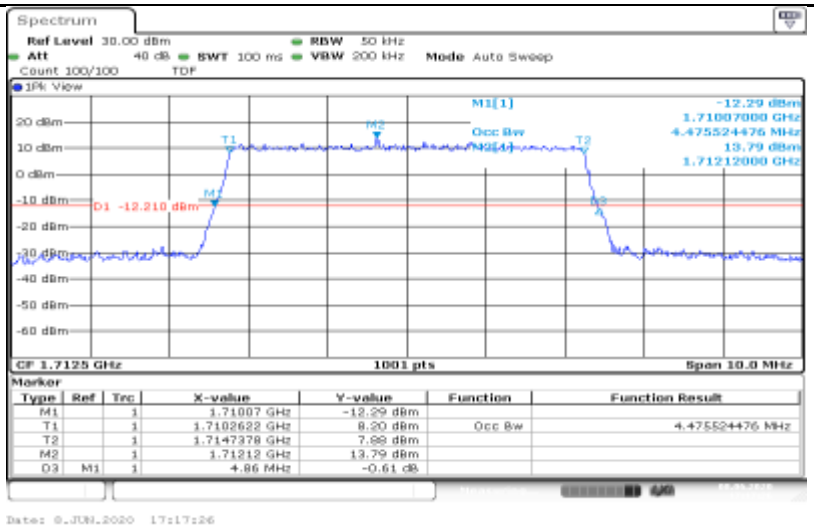
Band4-5MHz-QPSK-20175-25RB#0-4.466



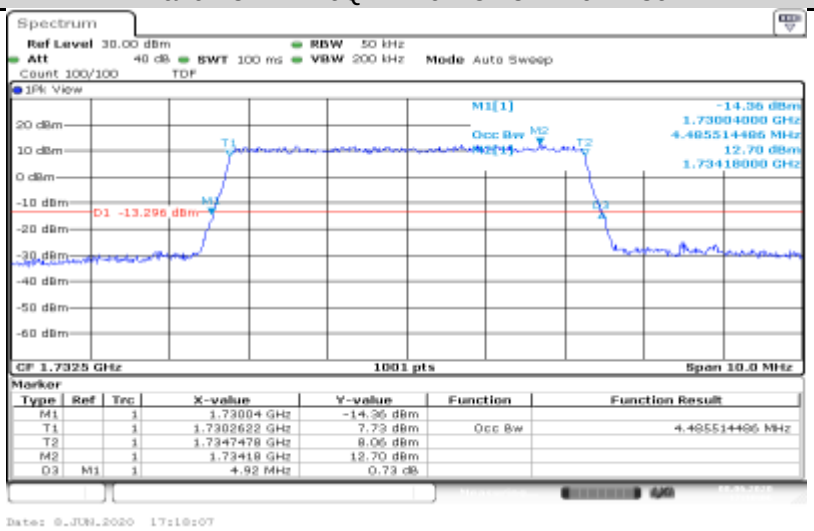
Band4-5MHz-QPSK-20375-25RB#0-4.486



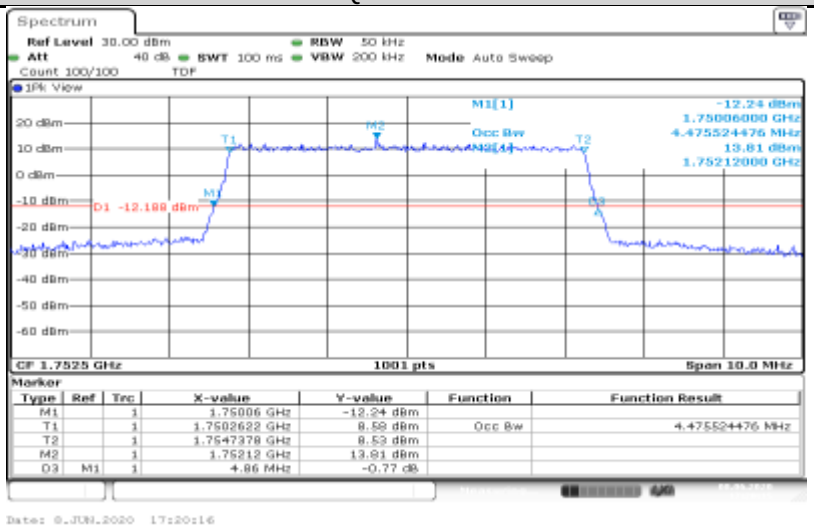
Band4-5MHz-16QAM-19975-25RB#0-4.476



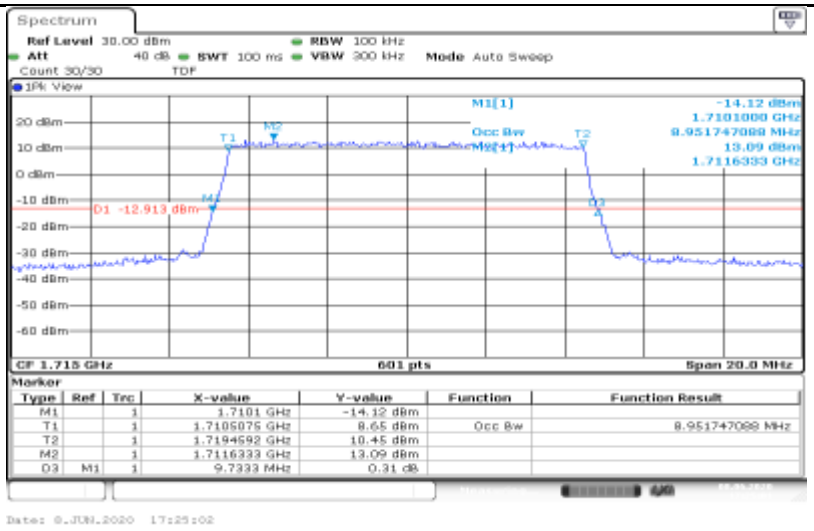
Band4-5MHz-16QAM-20175-25RB#0-4.486



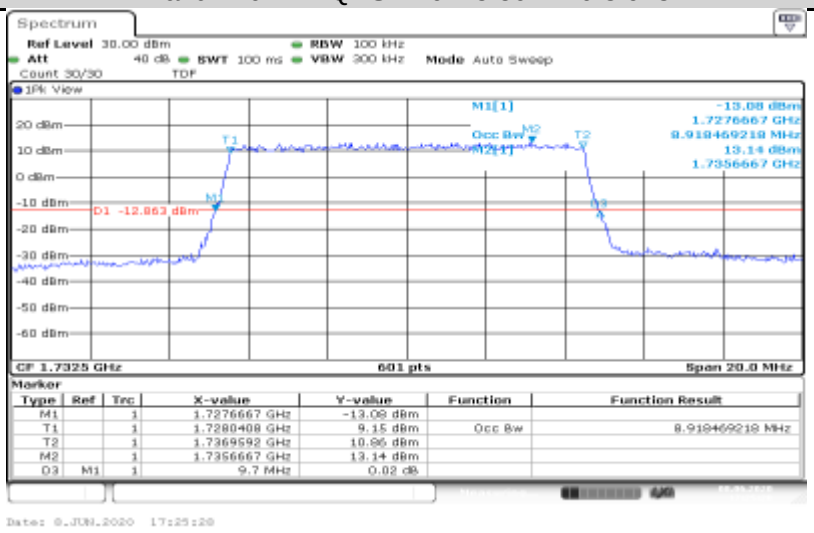
Band4-5MHz-16QAM-20375-25RB#0-4.476



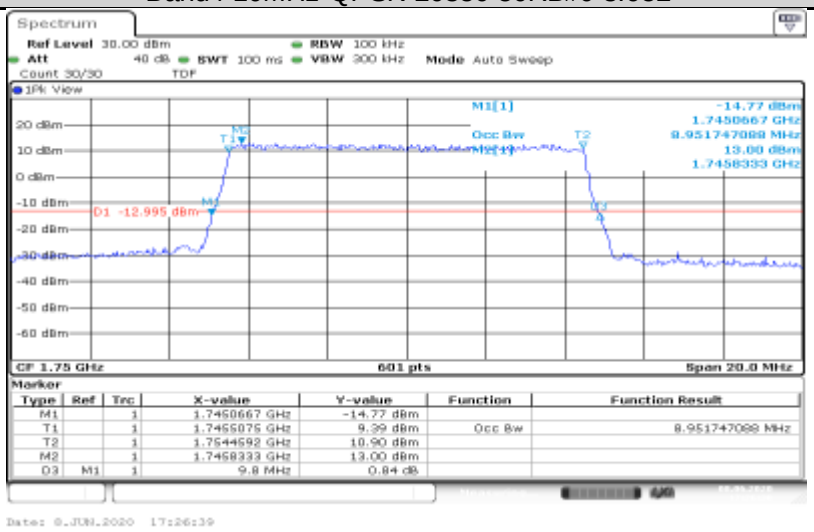
Band4-10MHz-QPSK-20000-50RB#0-8.952



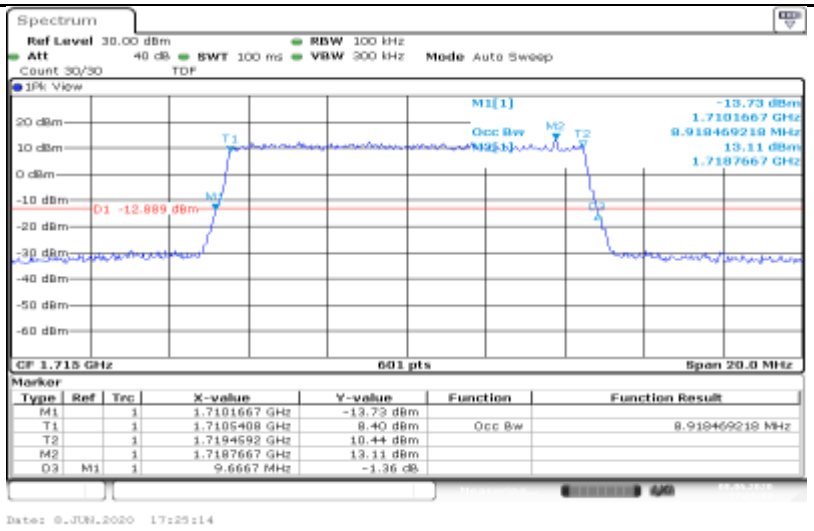
Band4-10MHz-QPSK-20175-50RB#0-8.918



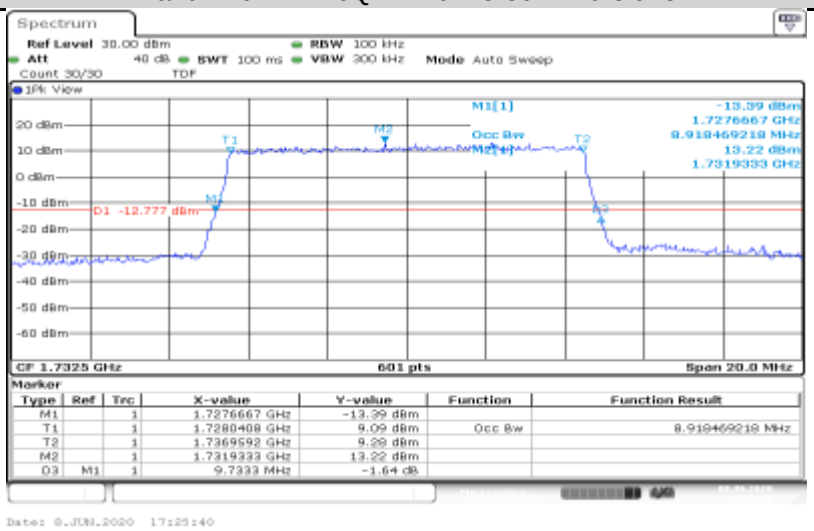
Band4-10MHz-QPSK-20350-50RB#0-8.952



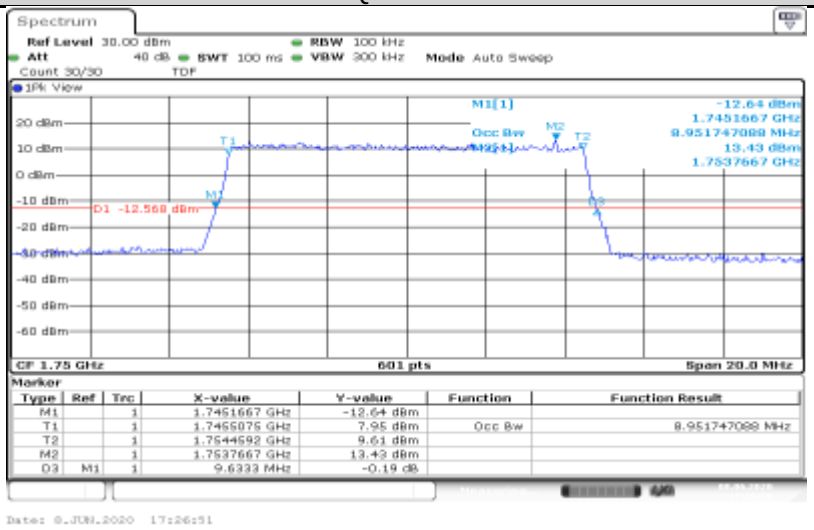
Band4-10MHz-16QAM-20000-50RB#0-8.918



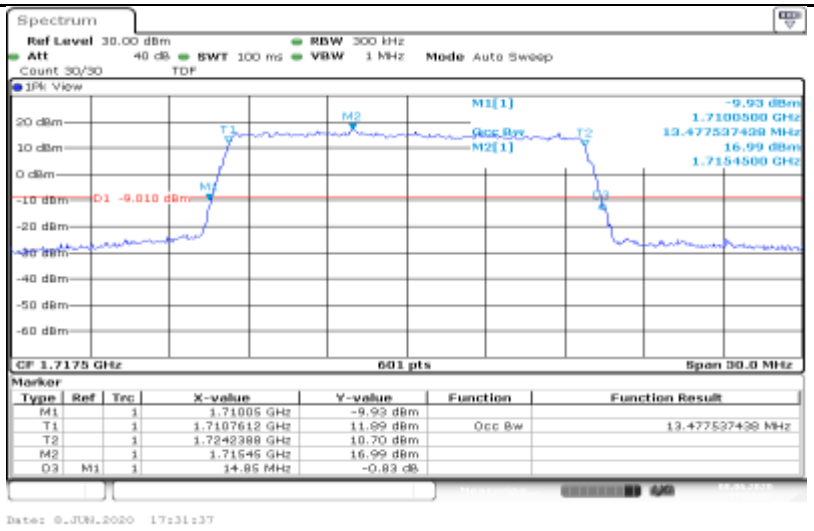
Band4-10MHz-16QAM-20175-50RB#0-8.918



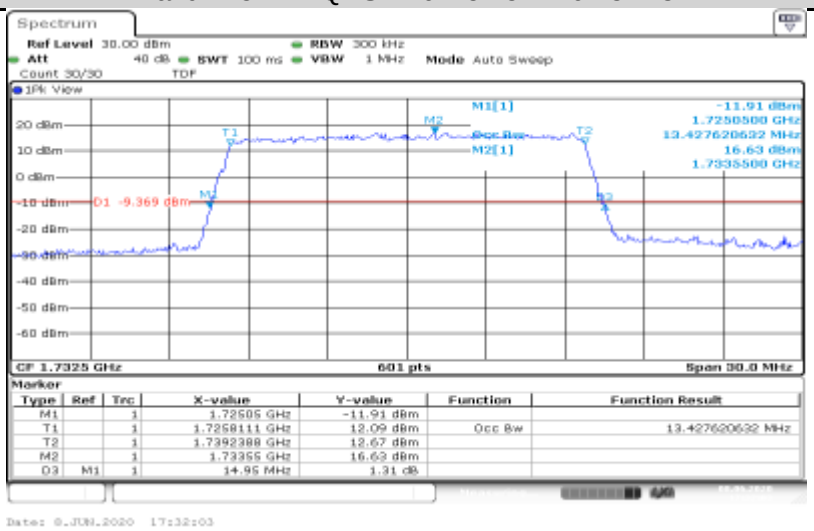
Band4-10MHz-16QAM-20350-50RB#0-8.952



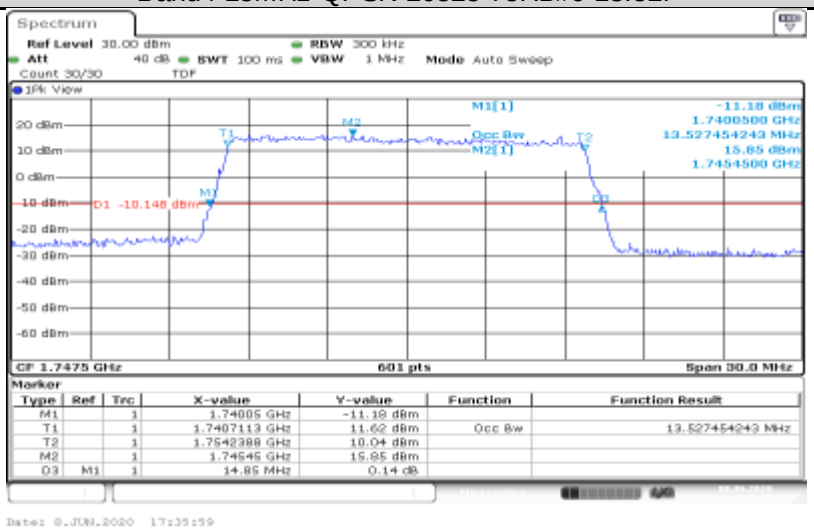
Band4-15MHz-QPSK-20025-75RB#0-13.478



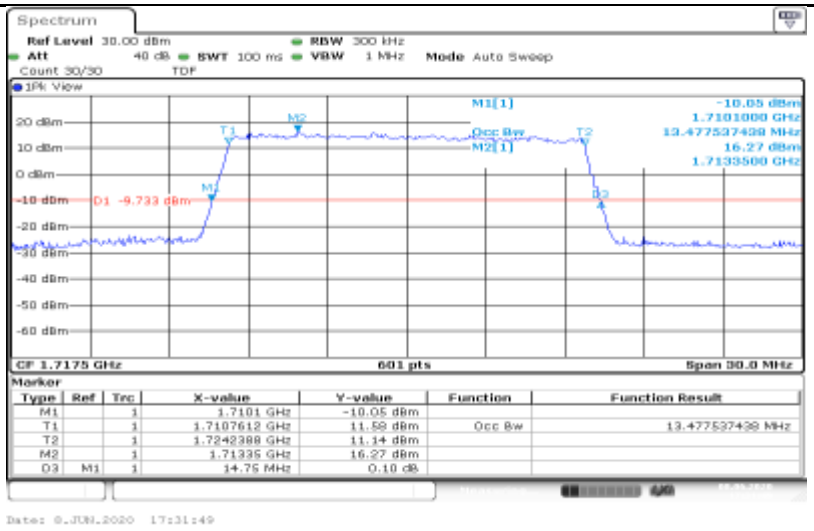
Band4-15MHz-QPSK-20175-75RB#0-13.428



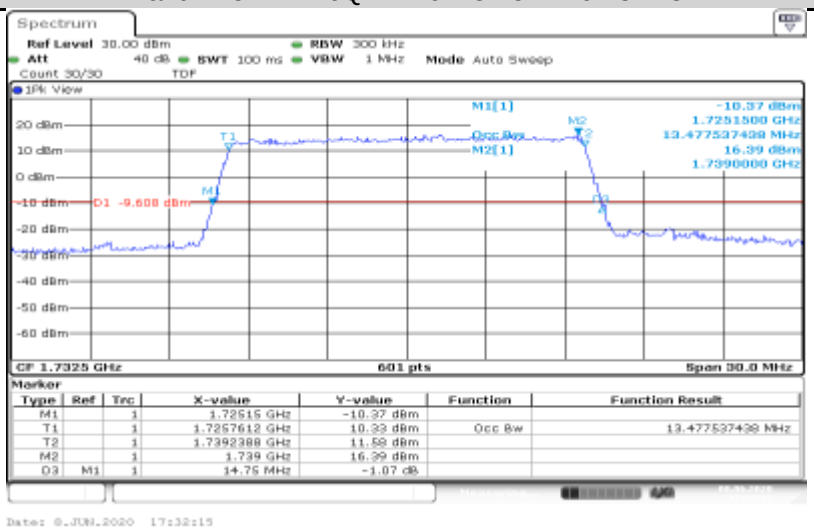
Band4-15MHz-QPSK-20325-75RB#0-13.527



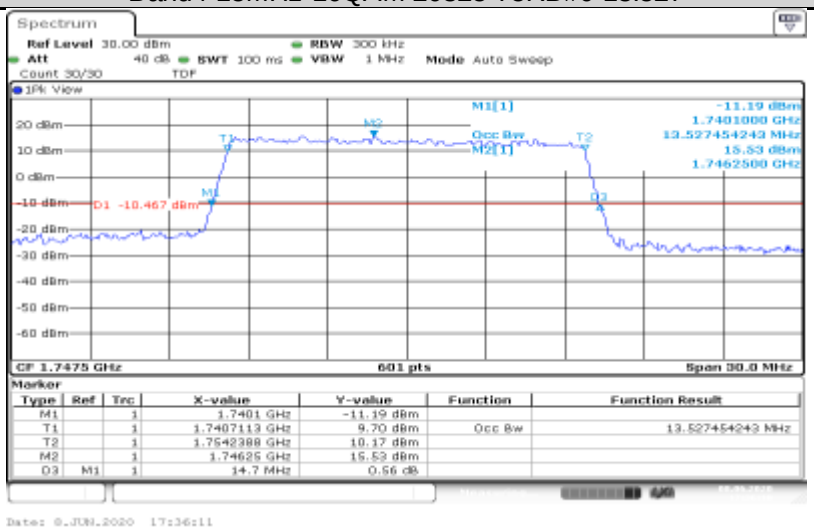
Band4-15MHz-16QAM-20025-75RB#0-13.478



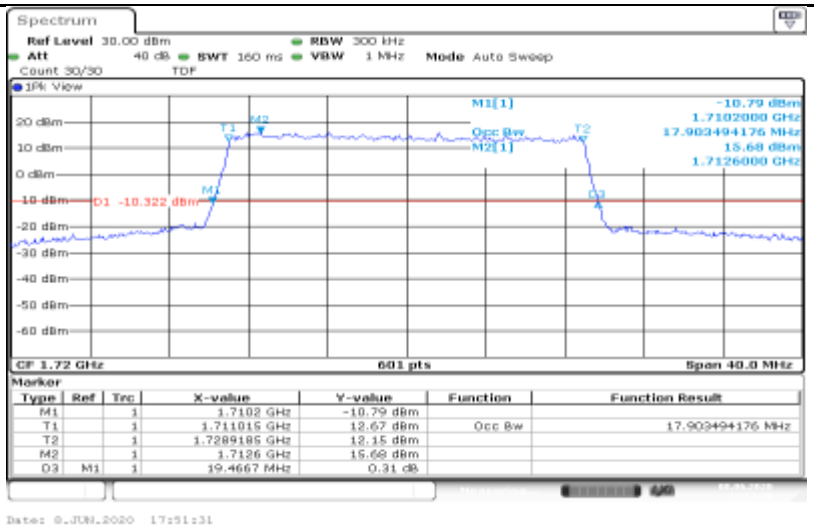
Band4-15MHz-16QAM-20175-75RB#0-13.478



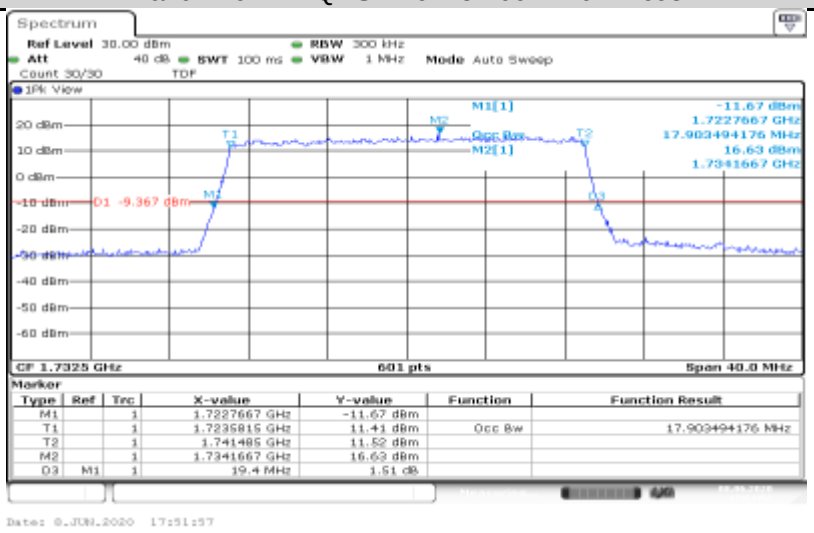
Band4-15MHz-16QAM-20325-75RB#0-13.527



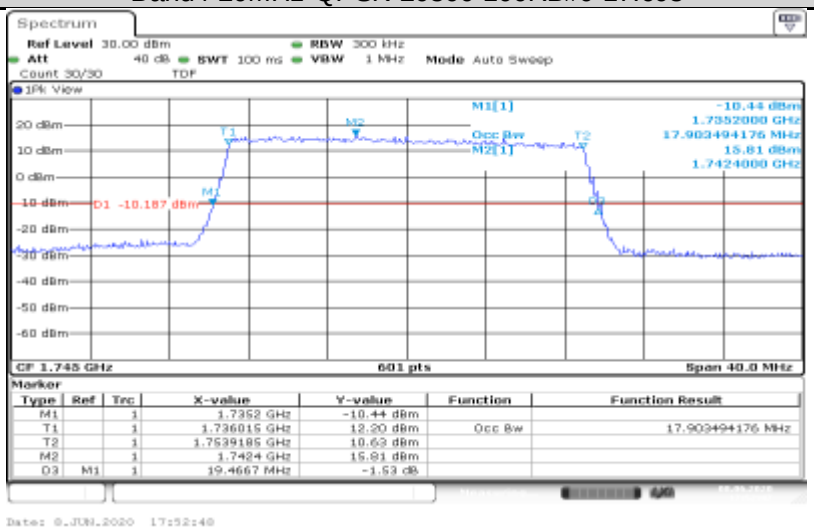
Band4-20MHz-QPSK-20050-100RB#0-17.903



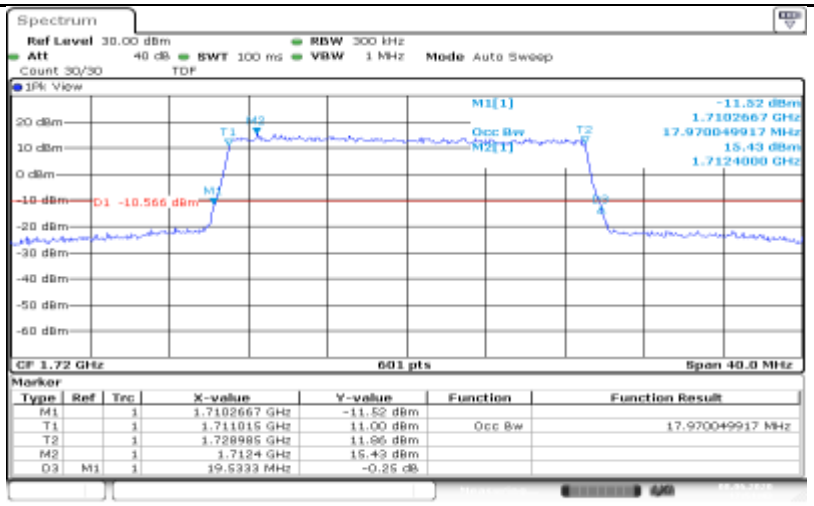
Band4-20MHz-QPSK-20175-100RB#0-17.903



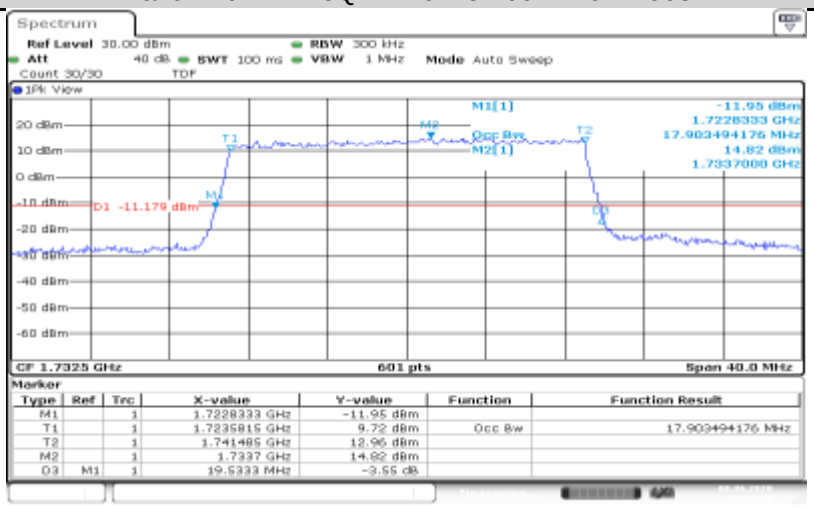
Band4-20MHz-QPSK-20300-100RB#0-17.903



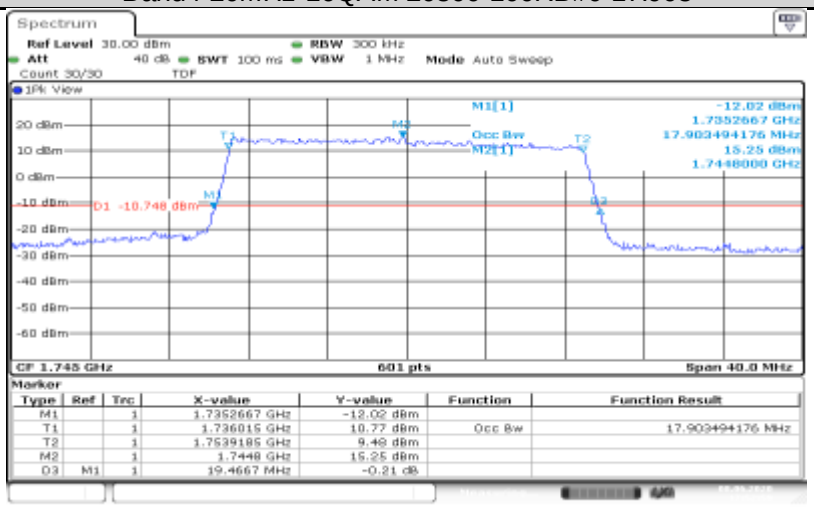
Band4-20MHz-16QAM-20050-100RB#0-17.97



Band4-20MHz-16QAM-20175-100RB#0-17.903



Band4-20MHz-16QAM-20300-100RB#0-17.903



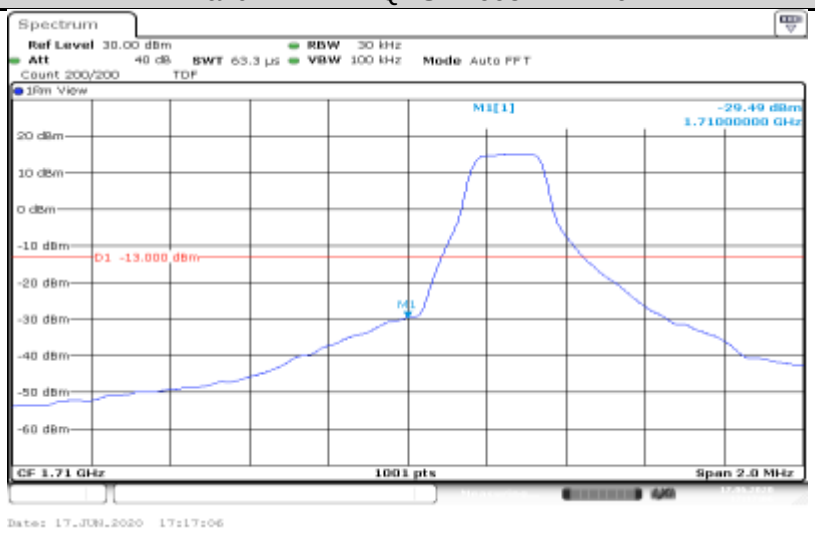
4. Band Edge

4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-29.49	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-32.87	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-31.00	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-30.64	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-28.19	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-34.95	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-30.63	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-33.25	PASS
Band4	3MHz	QPSK	19965	1RB#0	-18.33	PASS
Band4	3MHz	QPSK	19965	15RB#0	-24.89	PASS
Band4	3MHz	QPSK	20385	1RB#14	-18.82	PASS
Band4	3MHz	QPSK	20385	15RB#0	-25.62	PASS
Band4	3MHz	16QAM	19965	1RB#0	-19.97	PASS
Band4	3MHz	16QAM	19965	15RB#0	-27.65	PASS
Band4	3MHz	16QAM	20385	1RB#14	-20.57	PASS
Band4	3MHz	16QAM	20385	15RB#0	-27.96	PASS
Band4	5MHz	QPSK	19975	1RB#0	-24.48	PASS
Band4	5MHz	QPSK	19975	25RB#0	-30.67	PASS
Band4	5MHz	QPSK	20375	1RB#24	-22.80	PASS
Band4	5MHz	QPSK	20375	25RB#0	-31.67	PASS
Band4	5MHz	16QAM	19975	1RB#0	-24.56	PASS
Band4	5MHz	16QAM	19975	25RB#0	-32.36	PASS
Band4	5MHz	16QAM	20375	1RB#24	-26.06	PASS
Band4	5MHz	16QAM	20375	25RB#0	-32.69	PASS
Band4	10MHz	QPSK	20000	1RB#0	-33.80	PASS
Band4	10MHz	QPSK	20000	50RB#0	-32.21	PASS
Band4	10MHz	QPSK	20350	1RB#49	-34.60	PASS
Band4	10MHz	QPSK	20350	50RB#0	-33.53	PASS
Band4	10MHz	16QAM	20000	1RB#0	-35.17	PASS
Band4	10MHz	16QAM	20000	50RB#0	-36.70	PASS
Band4	10MHz	16QAM	20350	1RB#49	-34.79	PASS
Band4	10MHz	16QAM	20350	50RB#0	-37.21	PASS
Band4	15MHz	QPSK	20025	1RB#0	-25.89	PASS
Band4	15MHz	QPSK	20025	75RB#0	-28.89	PASS
Band4	15MHz	QPSK	20325	1RB#74	-29.47	PASS
Band4	15MHz	QPSK	20325	75RB#0	-29.13	PASS
Band4	15MHz	16QAM	20025	1RB#0	-30.54	PASS
Band4	15MHz	16QAM	20025	75RB#0	-32.01	PASS
Band4	15MHz	16QAM	20325	1RB#74	-31.63	PASS
Band4	15MHz	16QAM	20325	75RB#0	-34.22	PASS
Band4	20MHz	QPSK	20050	1RB#0	-32.47	PASS
Band4	20MHz	QPSK	20050	100RB#0	-31.09	PASS
Band4	20MHz	QPSK	20300	1RB#99	-31.36	PASS
Band4	20MHz	QPSK	20300	100RB#0	-33.07	PASS
Band4	20MHz	16QAM	20050	1RB#0	-32.38	PASS
Band4	20MHz	16QAM	20050	100RB#0	-33.38	PASS
Band4	20MHz	16QAM	20300	1RB#99	-32.00	PASS
Band4	20MHz	16QAM	20300	100RB#0	-36.18	PASS

4.2 Test Graphs

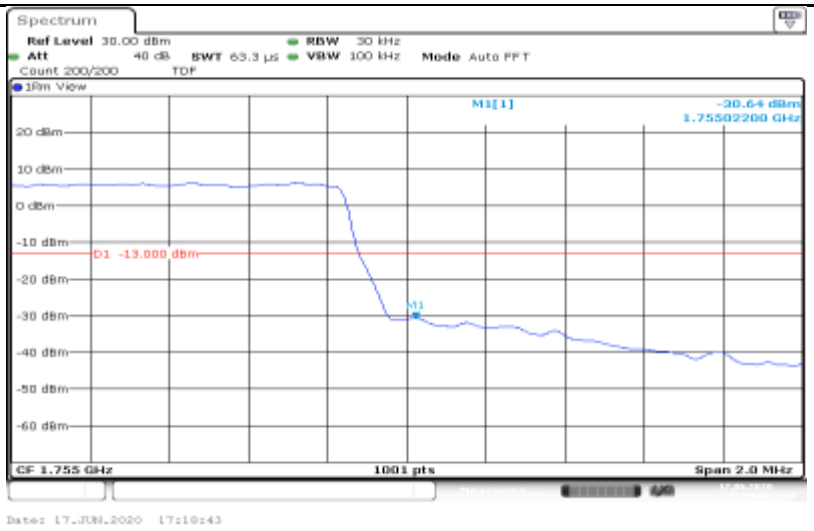
Band4-1.4MHz-QPSK-19957-1RB#0



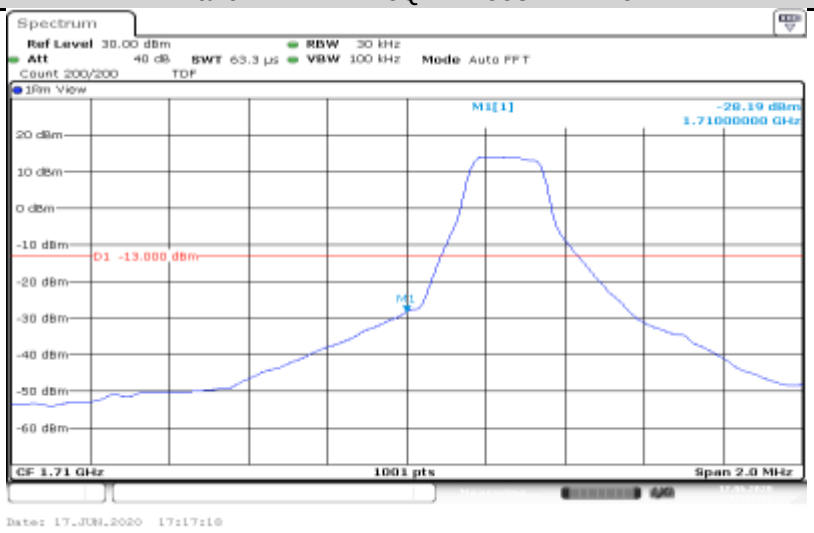
Band4-1.4MHz-QPSK-19957-6RB#0

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

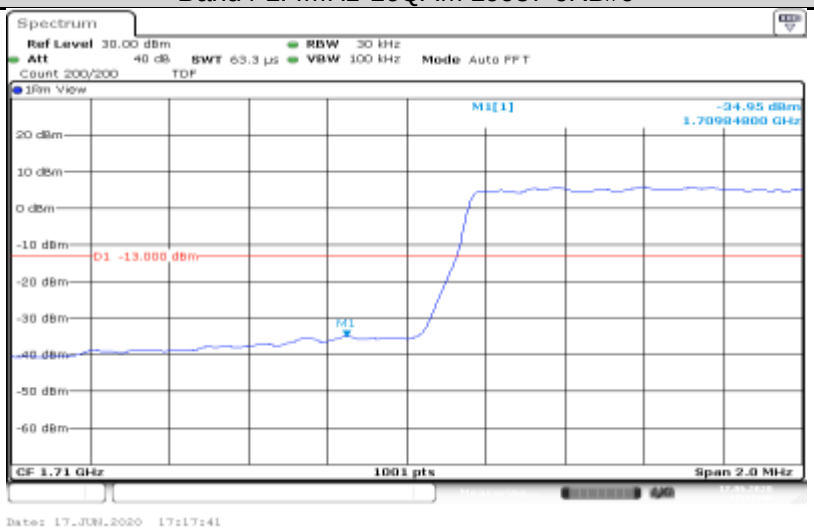
Band4-1.4MHz-QPSK-20393-6RB#0



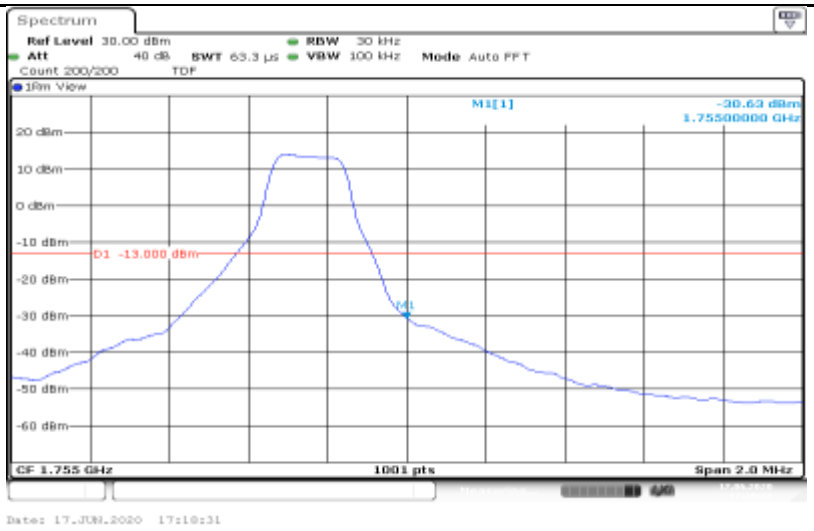
Band4-1.4MHz-16QAM-19957-1RB#0



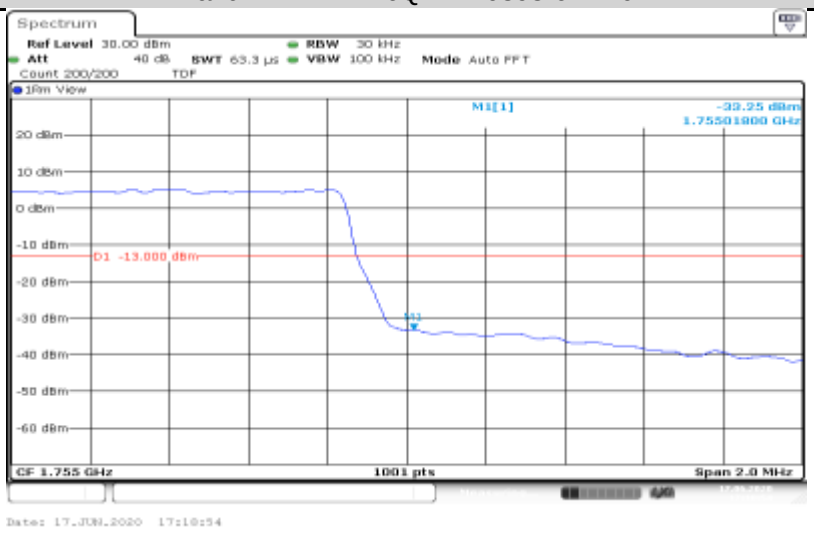
Band4-1.4MHz-16QAM-19957-6RB#0



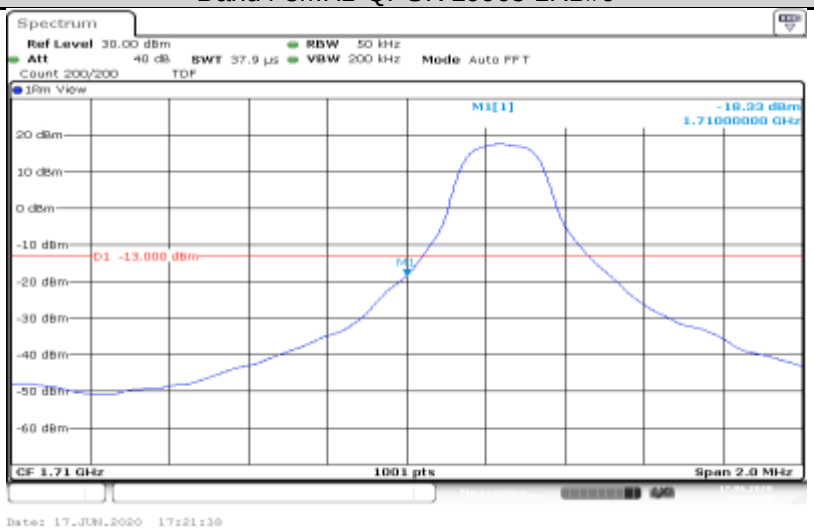
Band4-1.4MHz-16QAM-20393-1RB#5



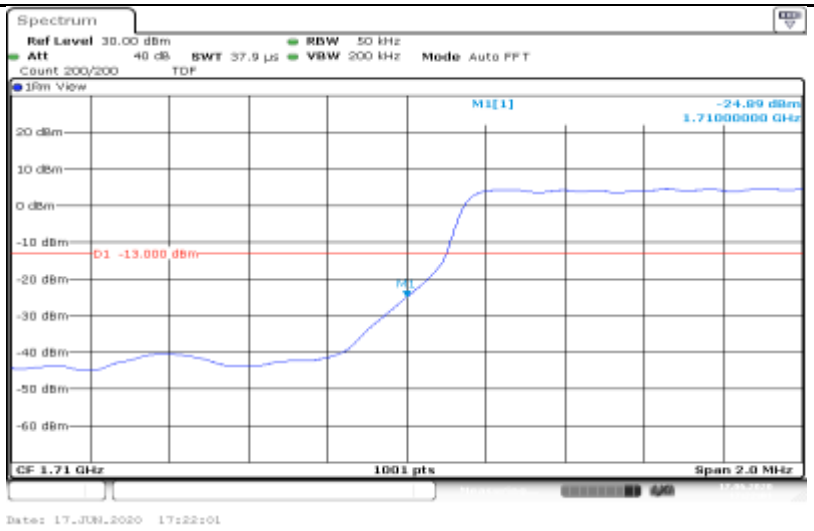
Band4-1.4MHz-16QAM-20393-6RB#0



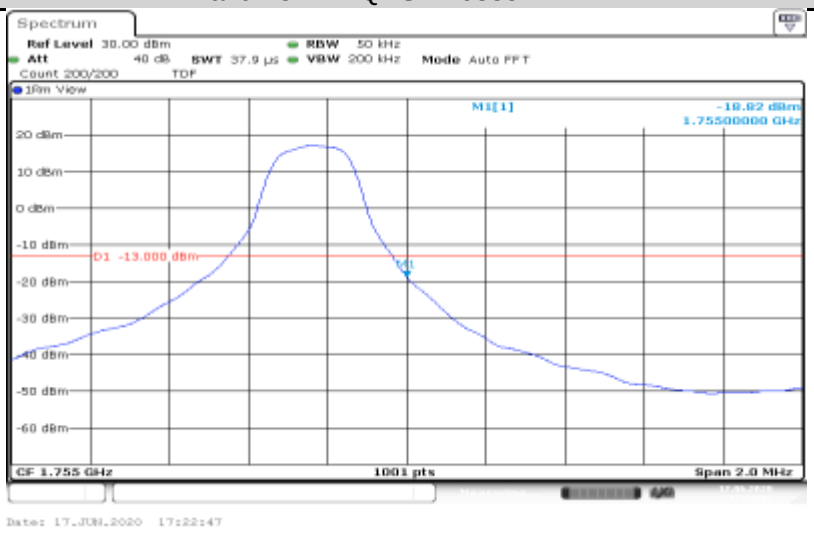
Band4-3MHz-QPSK-19965-1RB#0



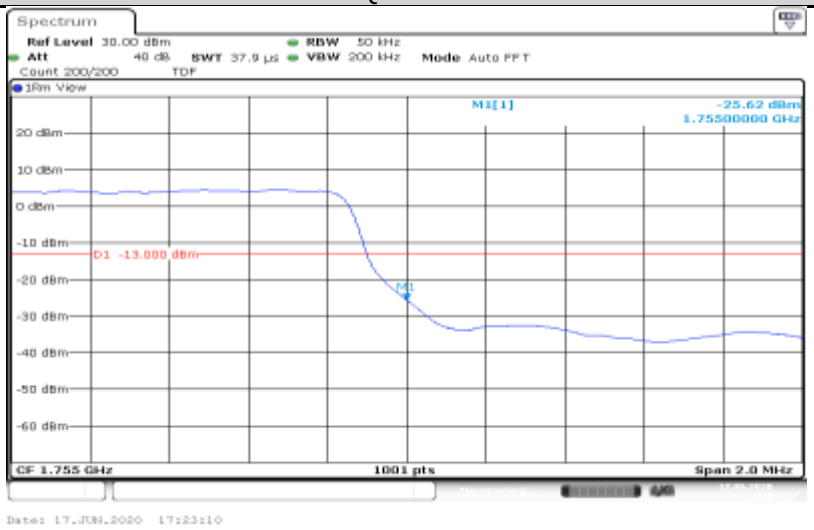
Band4-3MHz-QPSK-19965-15RB#0



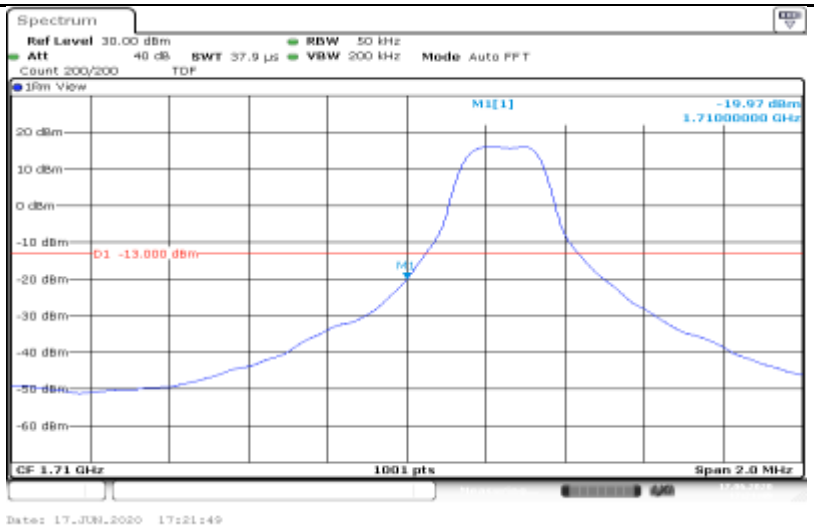
Band4-3MHz-QPSK-20385-1RB#14



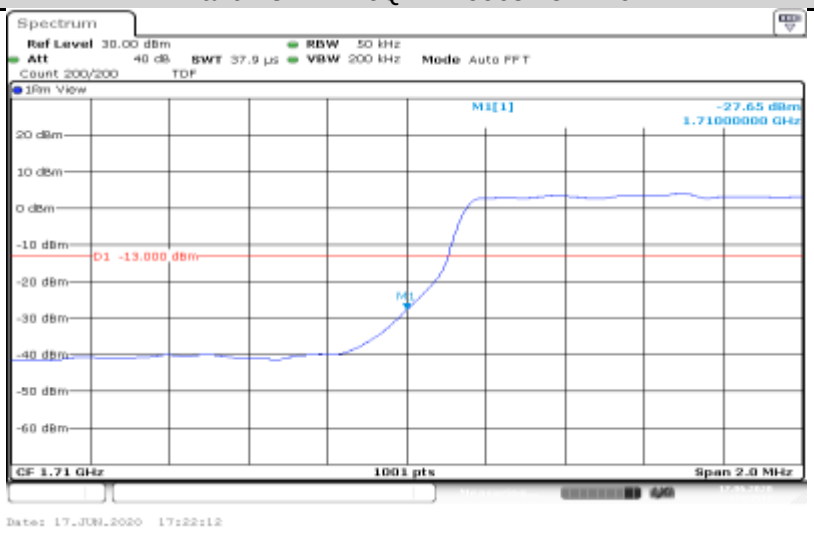
Band4-3MHz-QPSK-20385-15RB#0



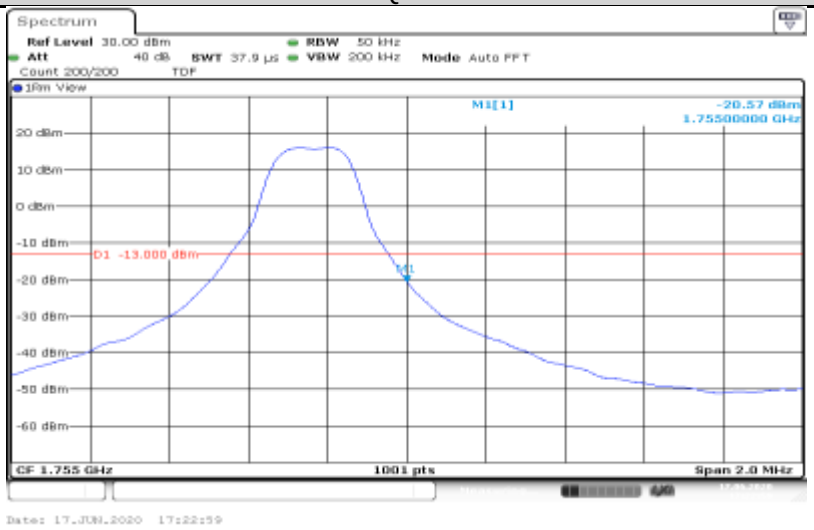
Band4-3MHz-16QAM-19965-1RB#0



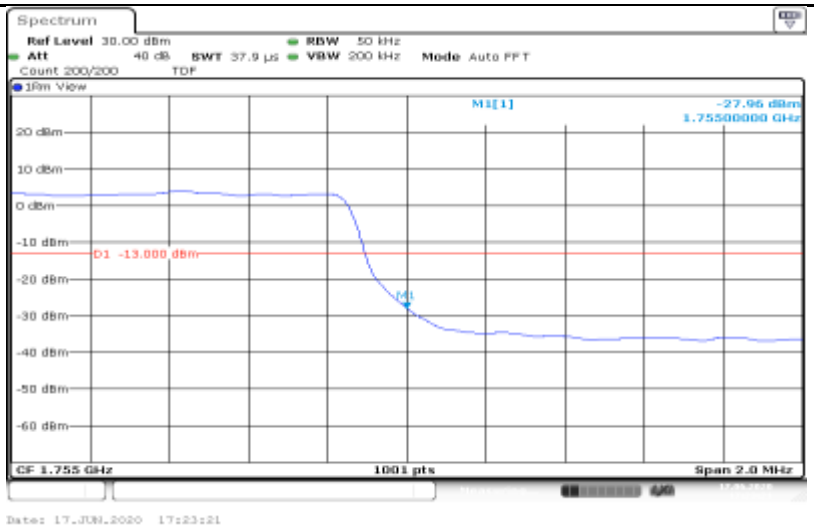
Band4-3MHz-16QAM-19965-15RB#0



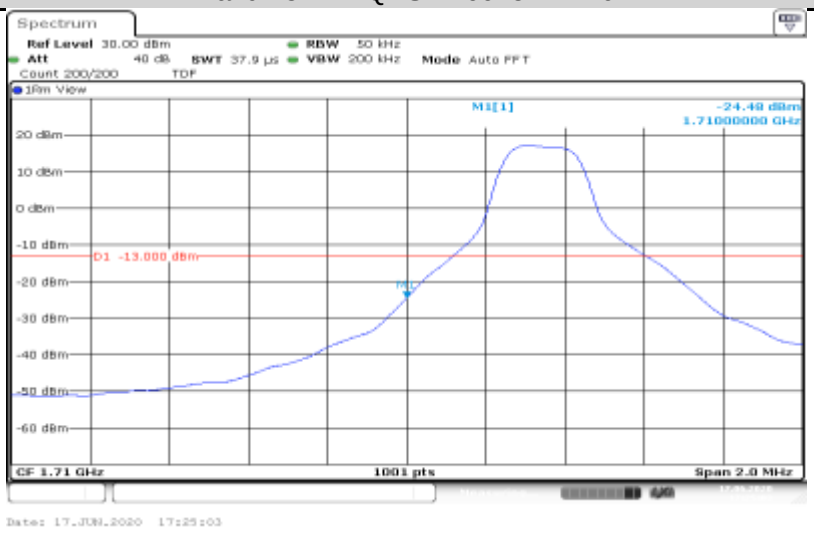
Band4-3MHz-16QAM-20385-1RB#14



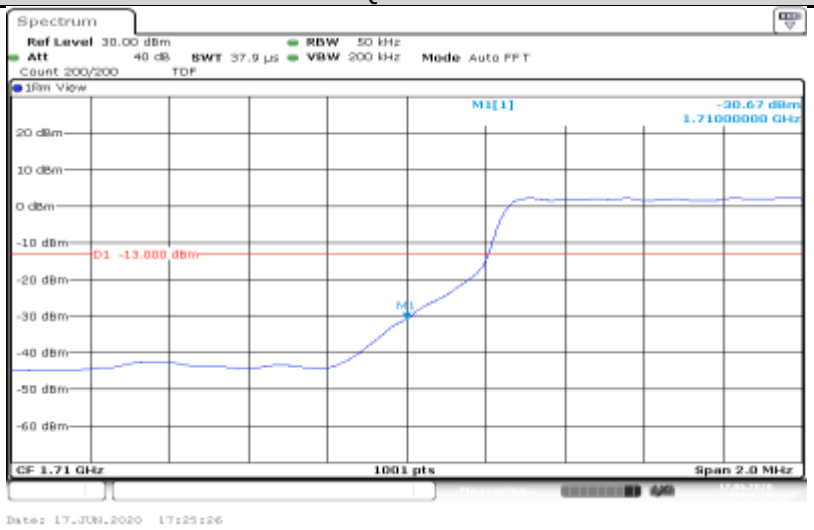
Band4-3MHz-16QAM-20385-15RB#0



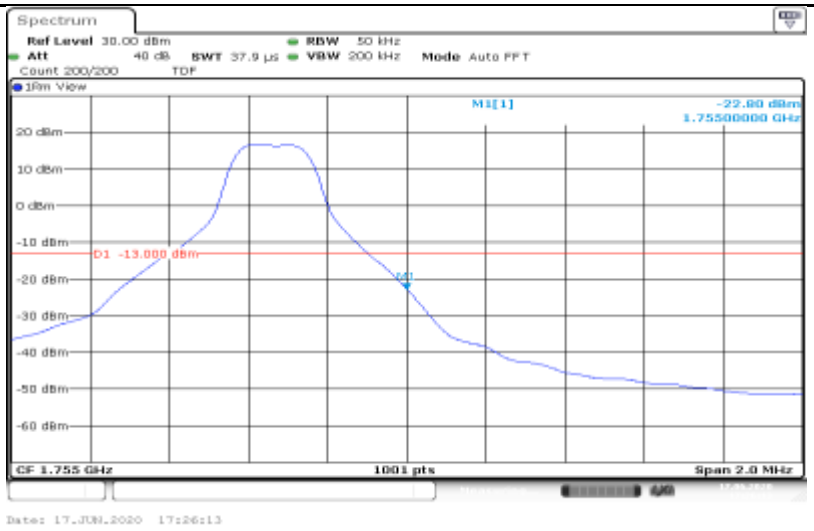
Band4-5MHz-QPSK-19975-1RB#0



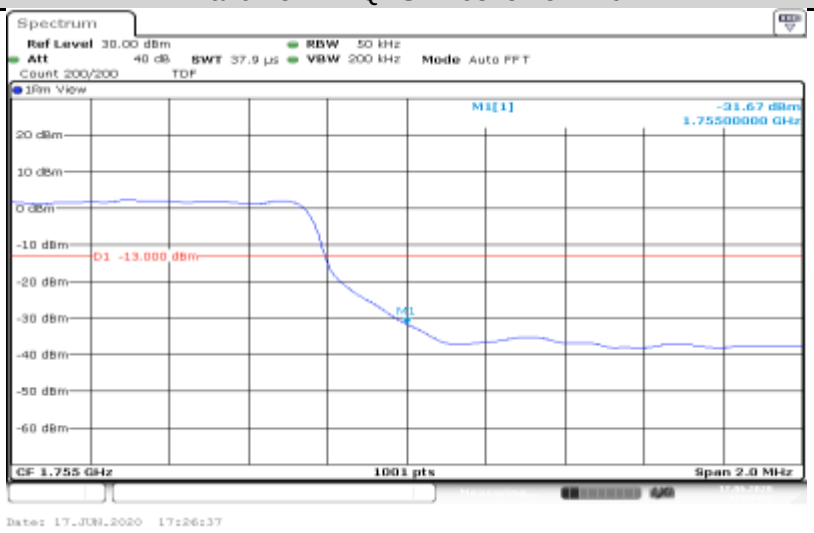
Band4-5MHz-QPSK-19975-25RB#0



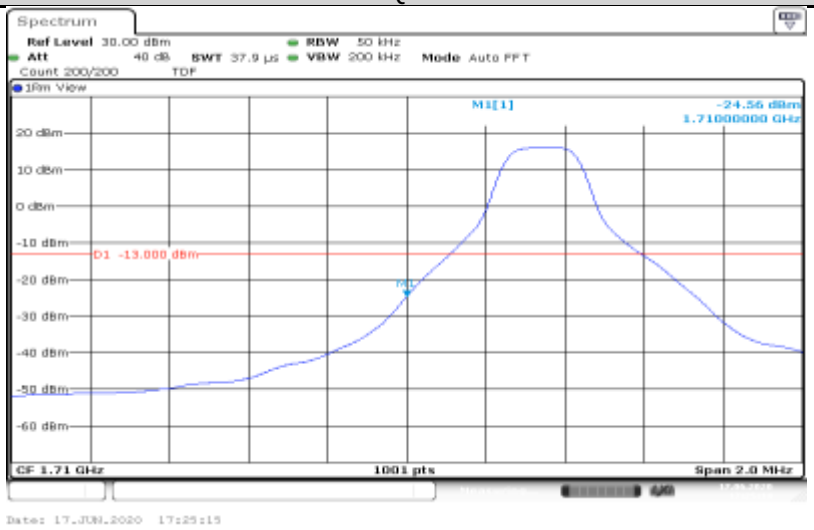
Band4-5MHz-QPSK-20375-1RB#24



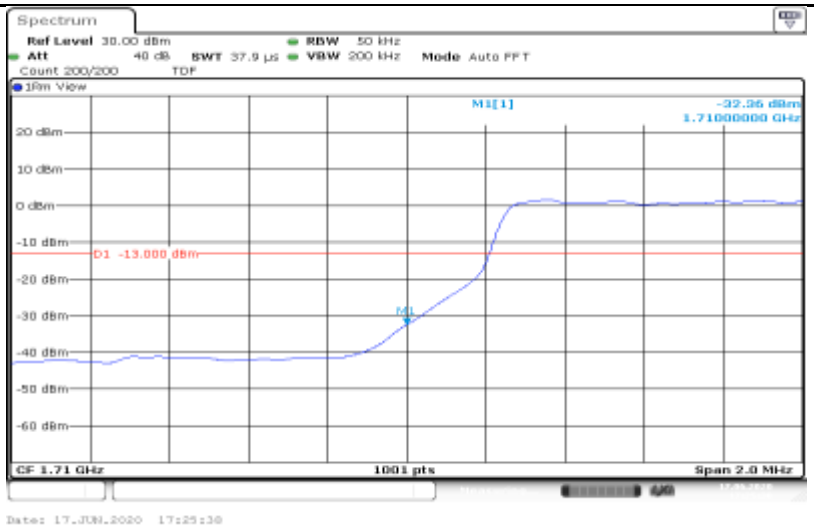
Band4-5MHz-QPSK-20375-25RB#0



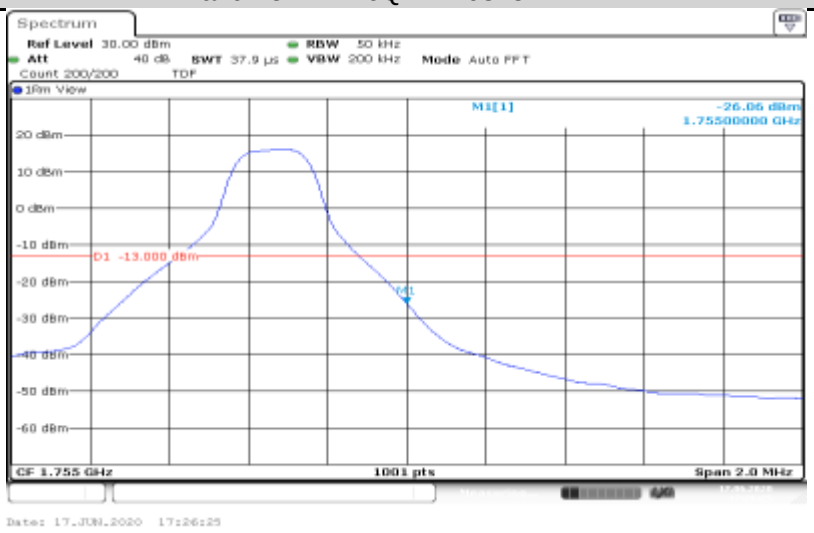
Band4-5MHz-16QAM-19975-1RB#0



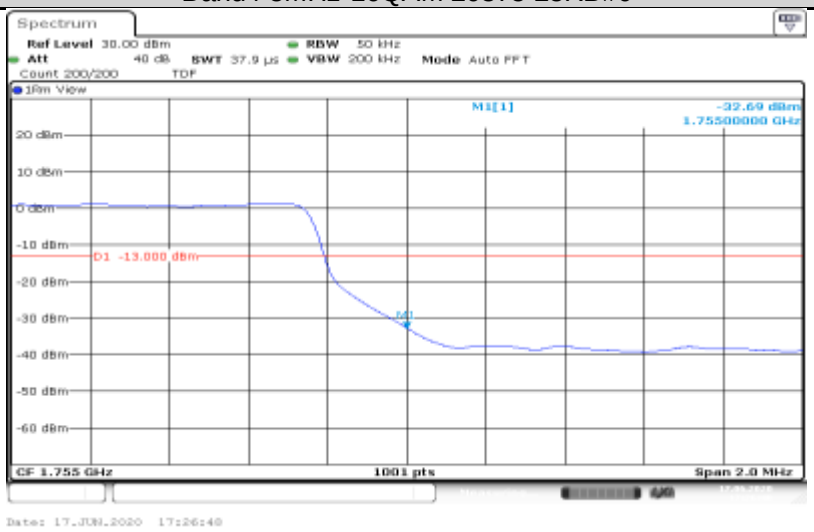
Band4-5MHz-16QAM-19975-25RB#0



Band4-5MHz-16QAM-20375-1RB#24



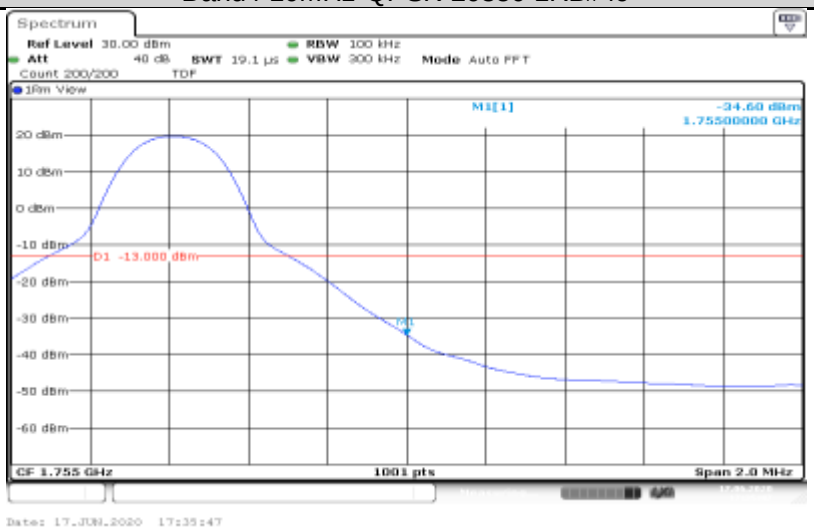
Band4-5MHz-16QAM-20375-25RB#0



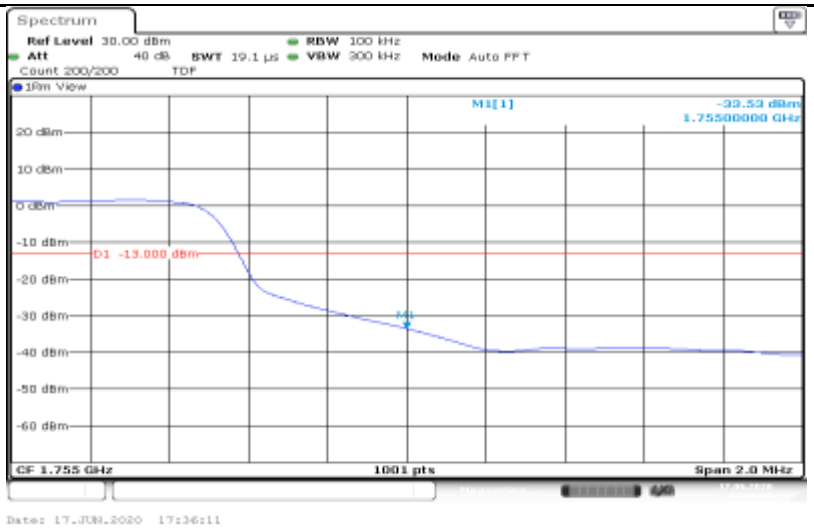
Band4-10MHz-QPSK-20000-1RB#0

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

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



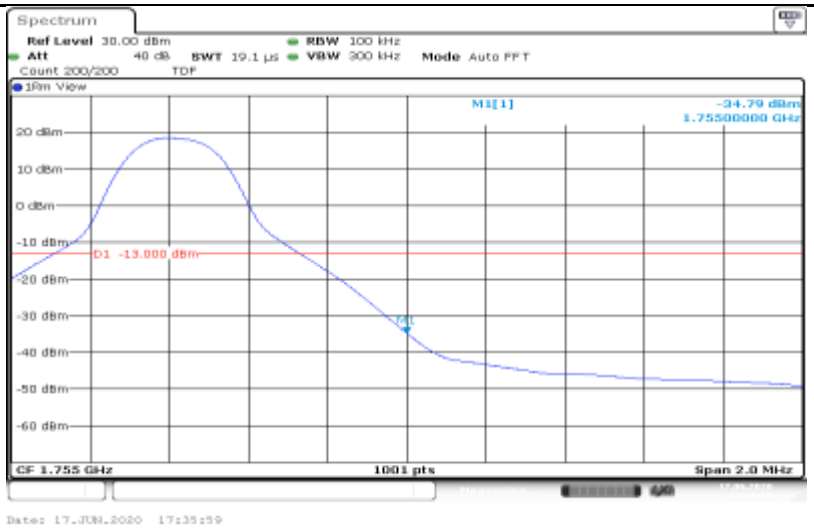
Band4-10MHz-QPSK-20350-50RB#0



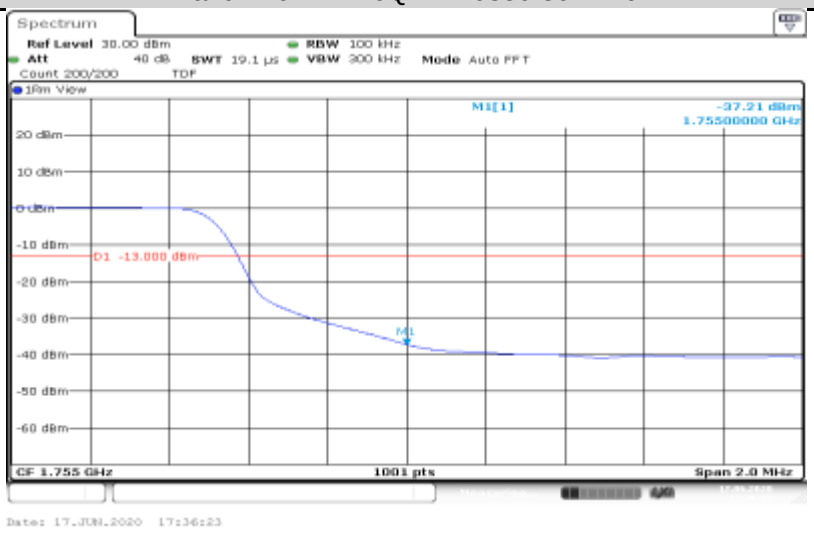
Band4-10MHz-16QAM-20000-1RB#0

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

Band4-10MHz-16QAM-20350-1RB#49



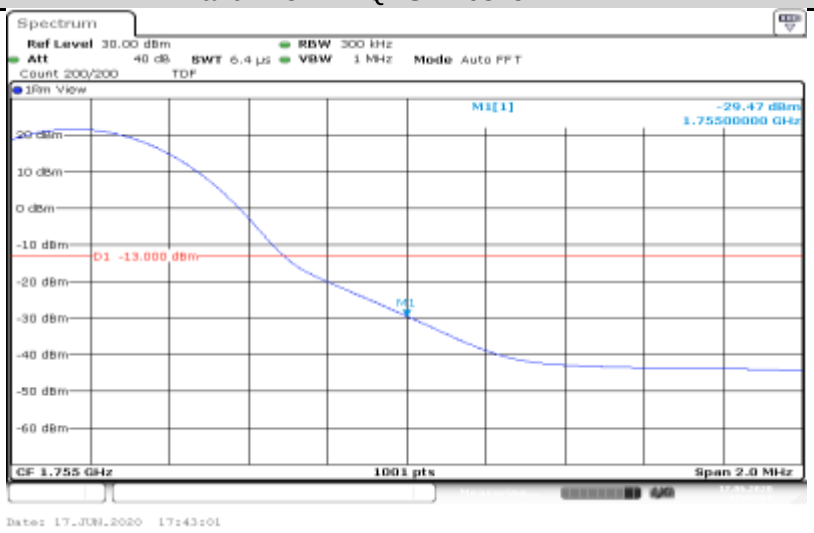
Band4-10MHz-16QAM-20350-50RB#0



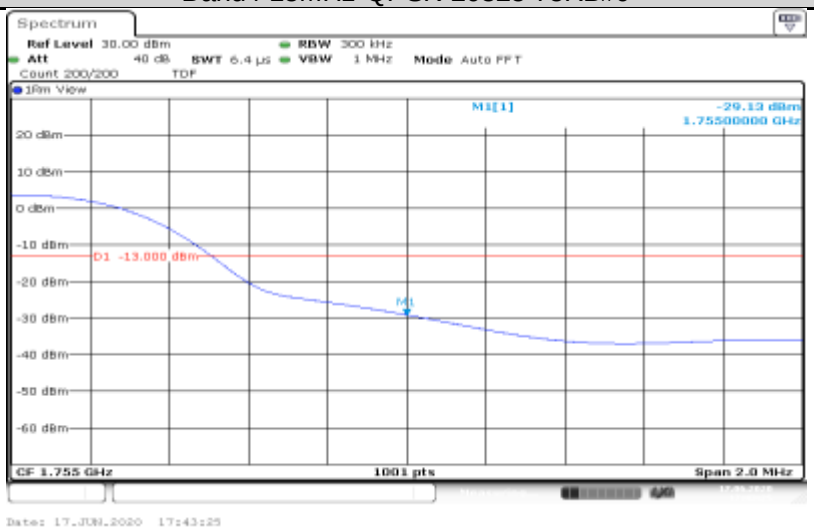
Band4-15MHz-QPSK-20025-1RB#0

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

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



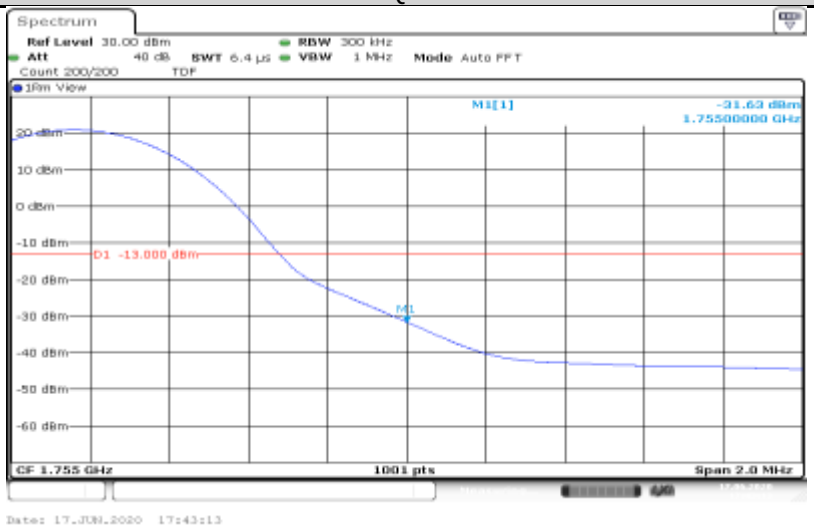
Band4-15MHz-QPSK-20325-75RB#0



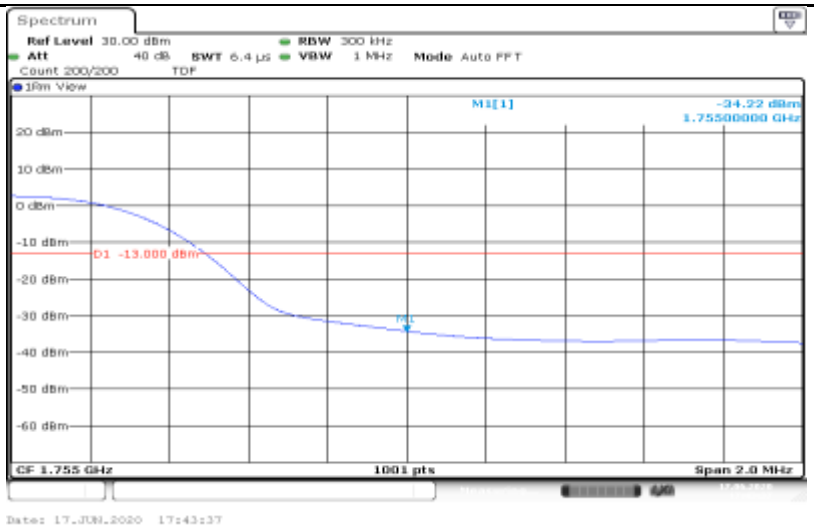
Band4-15MHz-16QAM-20025-1RB#0

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

Band4-15MHz-16QAM-20325-1RB#74

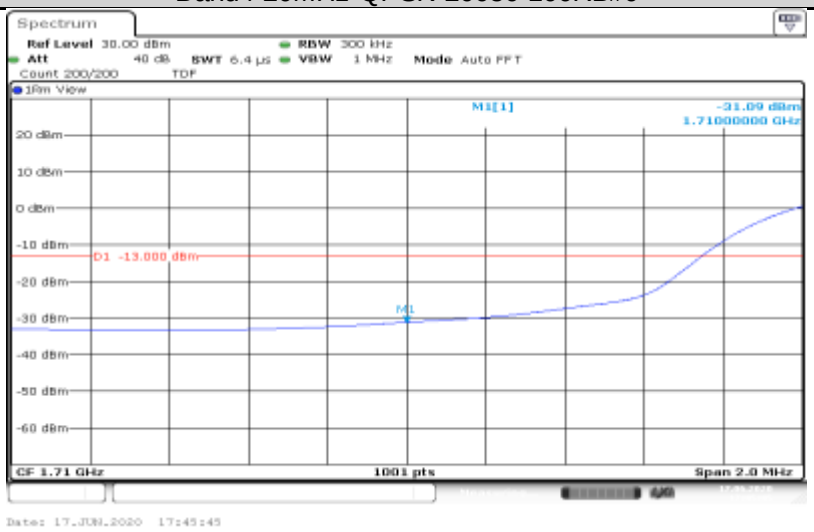


Band4-15MHz-16QAM-20325-75RB#0



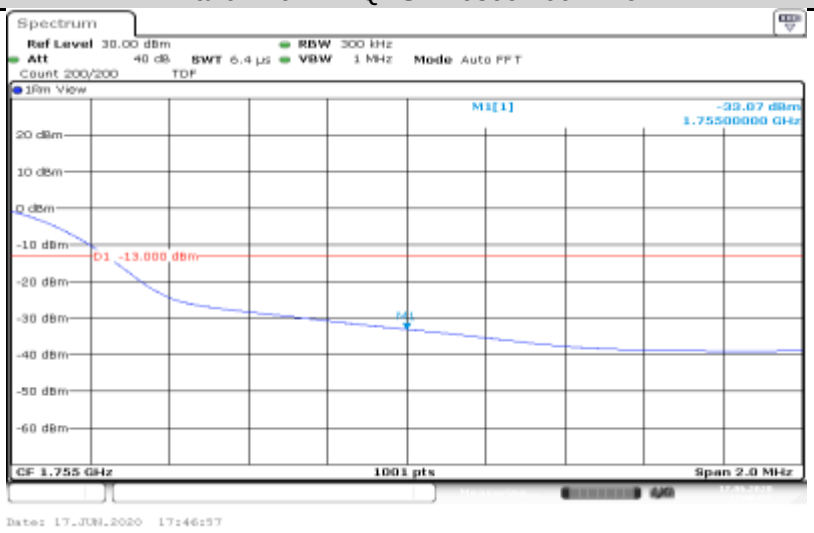
Band4-20MHz-QPSK-20050-1RB#0

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



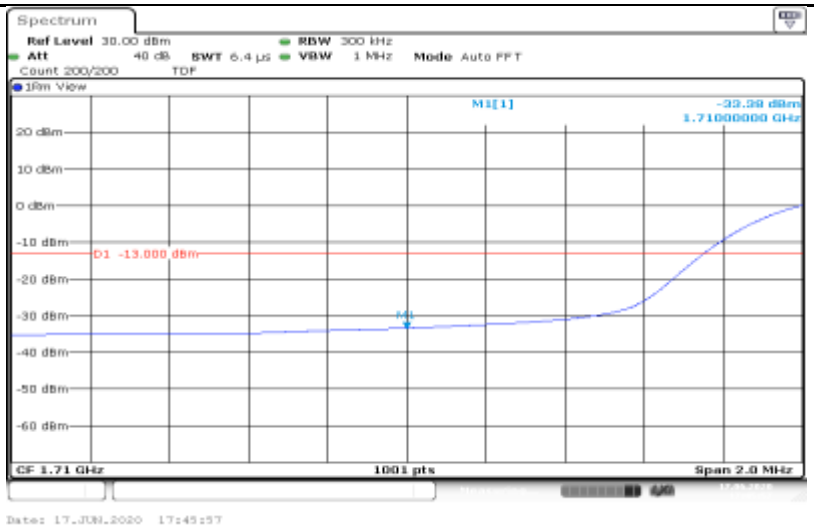
Band4-20MHz-QPSK-20300-1RB#99

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



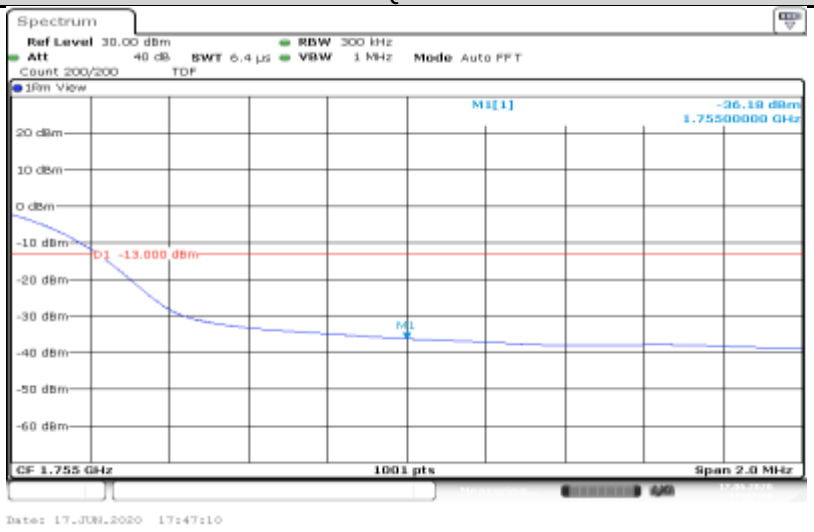
Band4-20MHz-16QAM-20050-1RB#0

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



Band4-20MHz-16QAM-20300-1RB#99

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



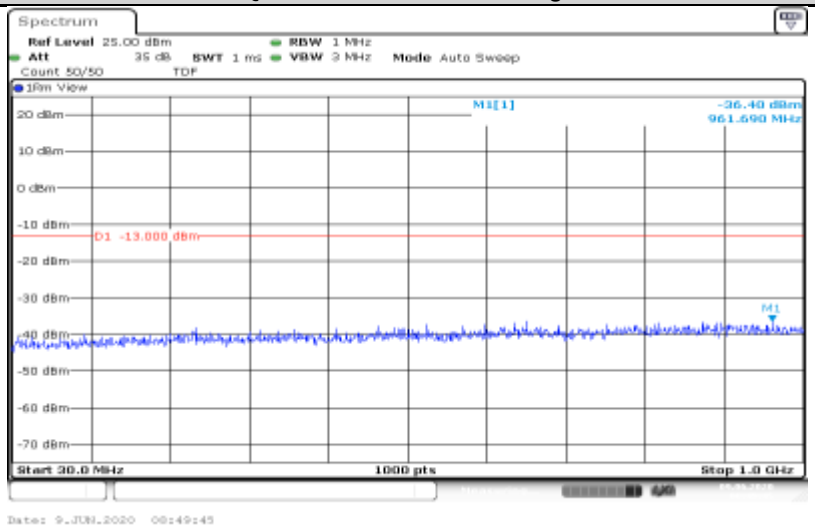
5. Conducted Spurious Emission

5.1 Test Result

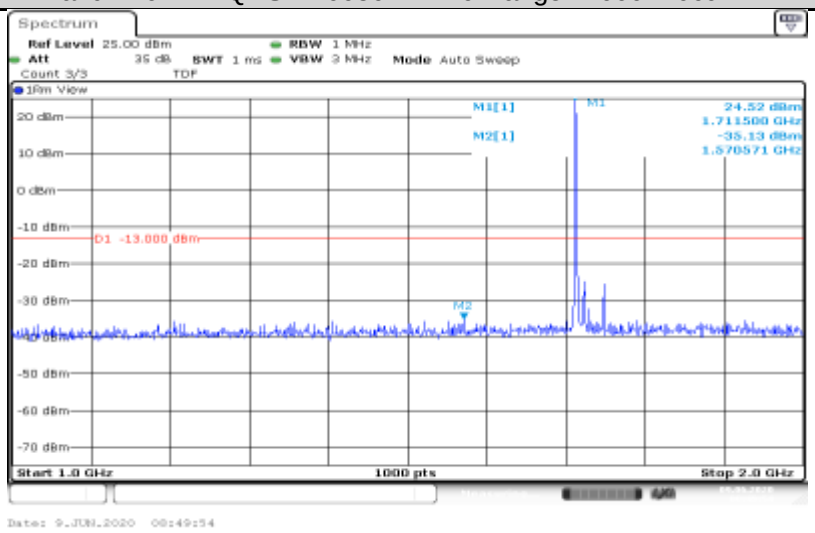
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band4	20MHz	QPSK	20050	1RB#0	Range1:30~1000MHz	-36.4	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range2:1000~2000MHz	-35.13	PASS
Band4	20MHz	QPSK	20050	1RB#0	Range3:2000~20000MHz	-36.9	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range1:30~1000MHz	-36.35	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range2:1000~2000MHz	-34.93	PASS
Band4	20MHz	QPSK	20175	1RB#0	Range3:2000~20000MHz	-37.26	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range1:30~1000MHz	-35.71	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range2:1000~2000MHz	-35.21	PASS
Band4	20MHz	QPSK	20300	1RB#0	Range3:2000~20000MHz	-35.75	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range1:30~1000MHz	-36.5	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range2:1000~2000MHz	-35.64	PASS
Band4	20MHz	16QAM	20050	1RB#0	Range3:2000~20000MHz	-36.42	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range1:30~1000MHz	-35.89	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range2:1000~2000MHz	-35.01	PASS
Band4	20MHz	16QAM	20175	1RB#0	Range3:2000~20000MHz	-37.3	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range1:30~1000MHz	-36.28	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range2:1000~2000MHz	-34.39	PASS
Band4	20MHz	16QAM	20300	1RB#0	Range3:2000~20000MHz	-36.44	PASS

5.2 Test Graphs

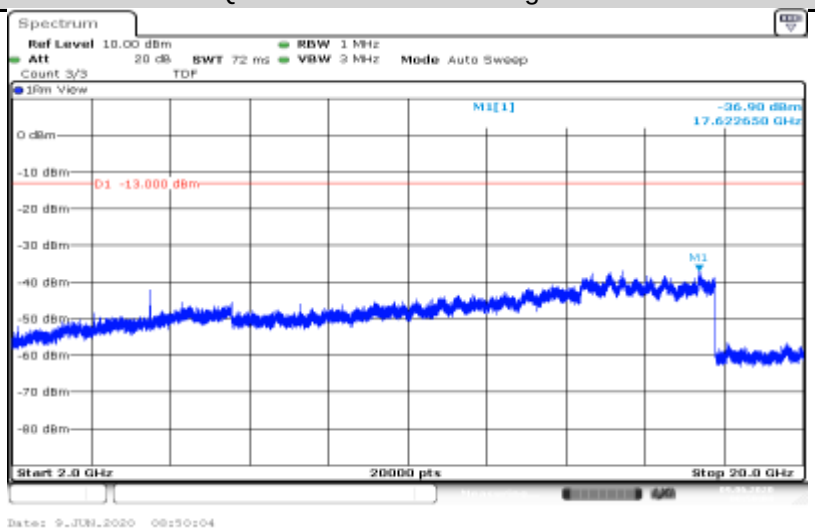
Band4-20MHz-QPSK-20050-1RB#0-Range1:30~1000MHz



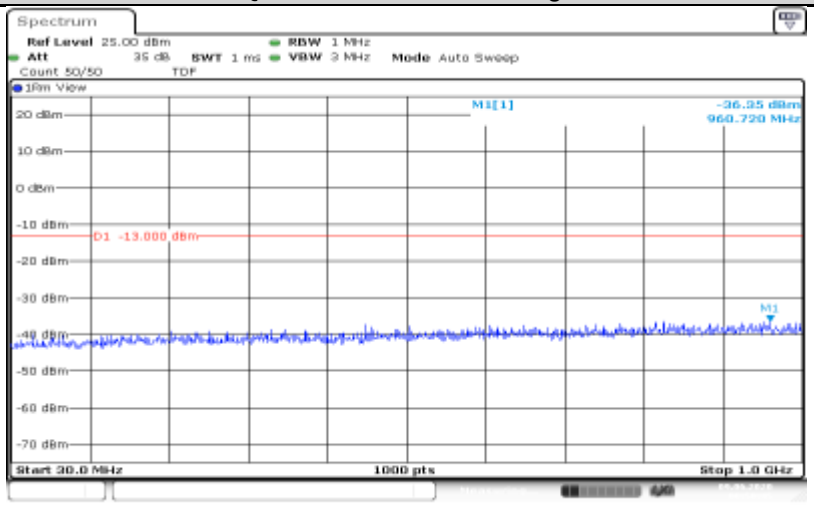
Band4-20MHz-QPSK-20050-1RB#0-Range2:1000~2000MHz



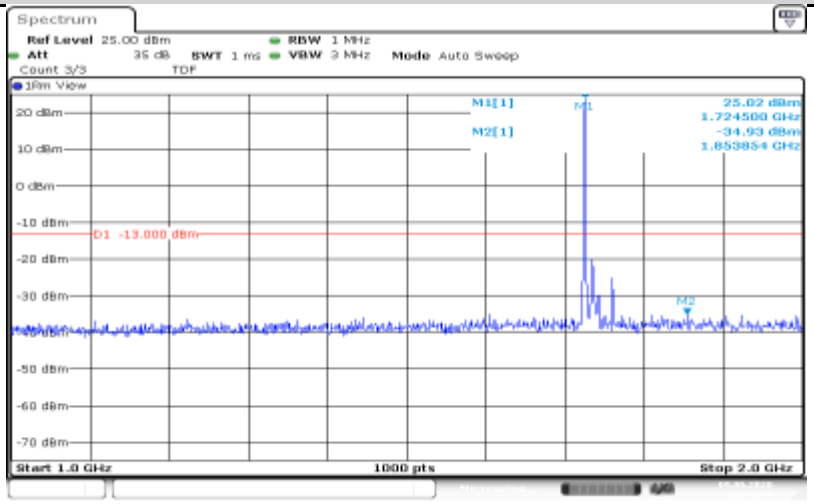
Band4-20MHz-QPSK-20050-1RB#0-Range3:2000~20000MHz



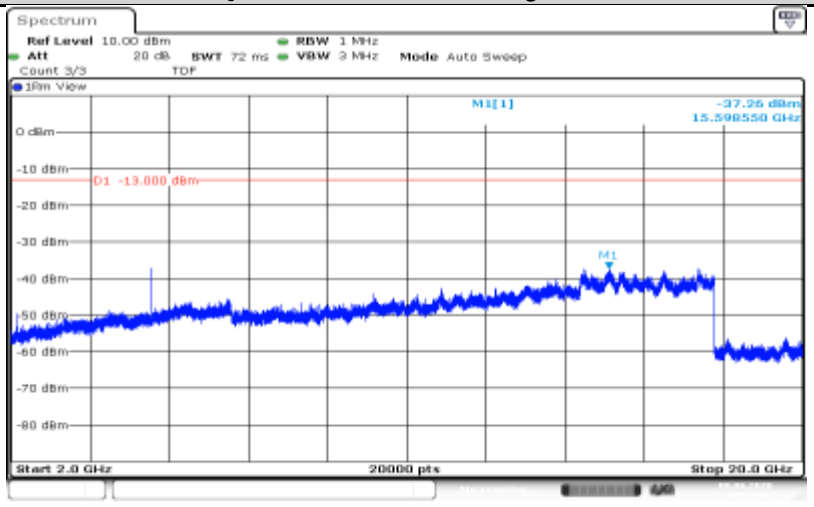
Band4-20MHz-QPSK-20175-1RB#0-Range1:30~1000MHz



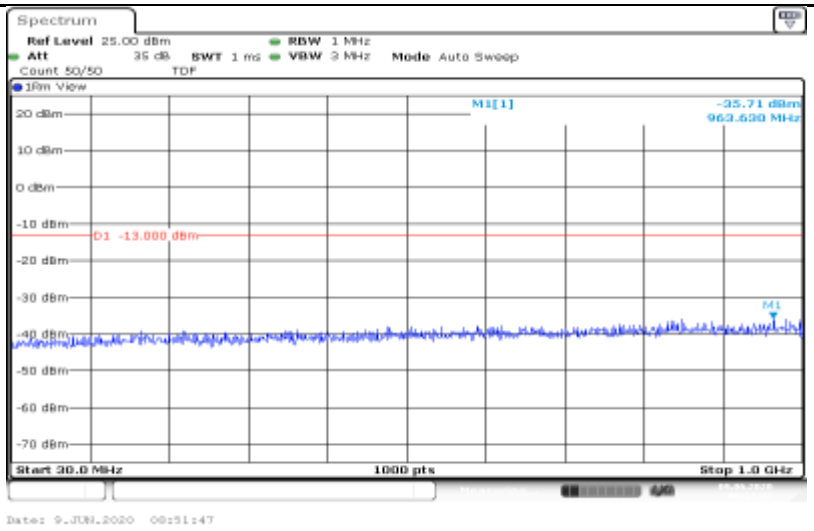
Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~2000MHz



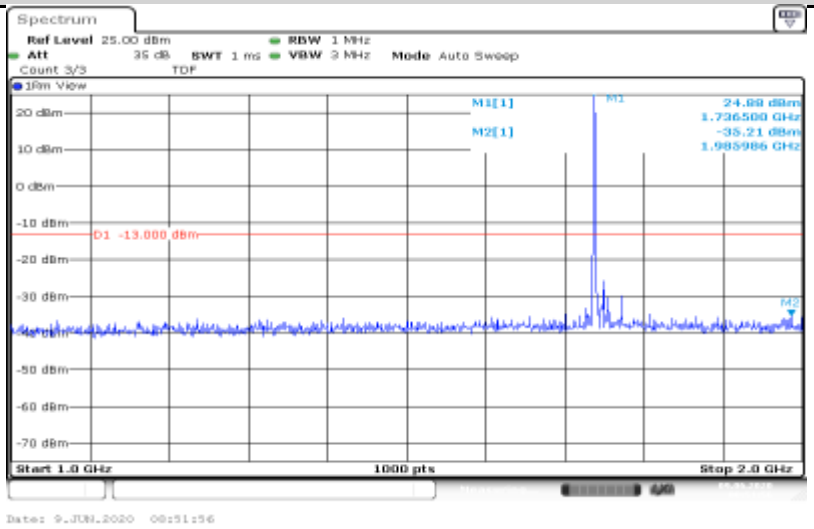
Band4-20MHz-QPSK-20175-1RB#0-Range3:2000~20000MHz



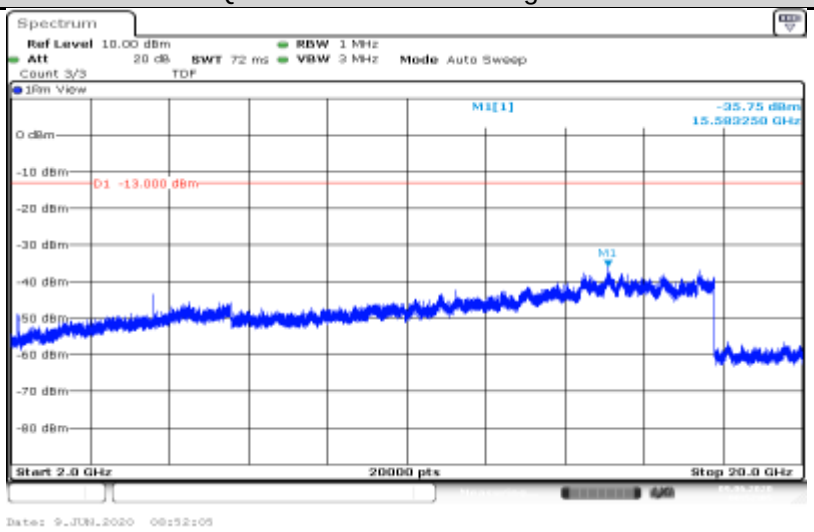
Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz



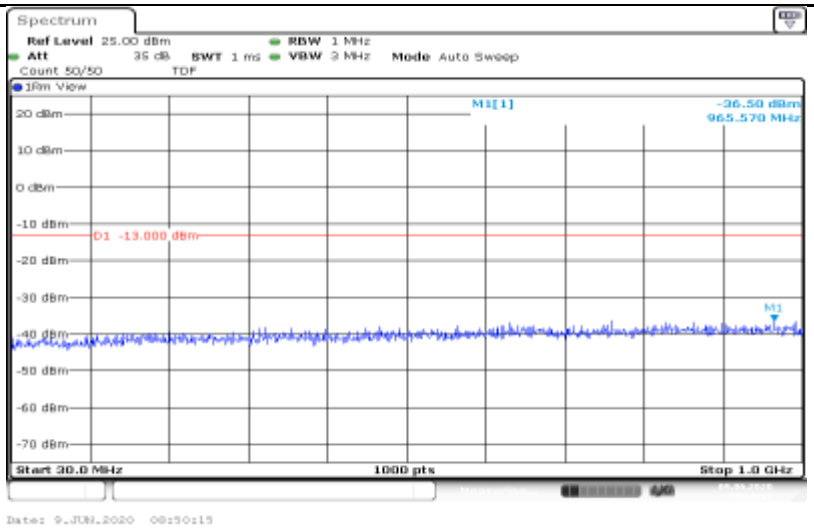
Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~2000MHz



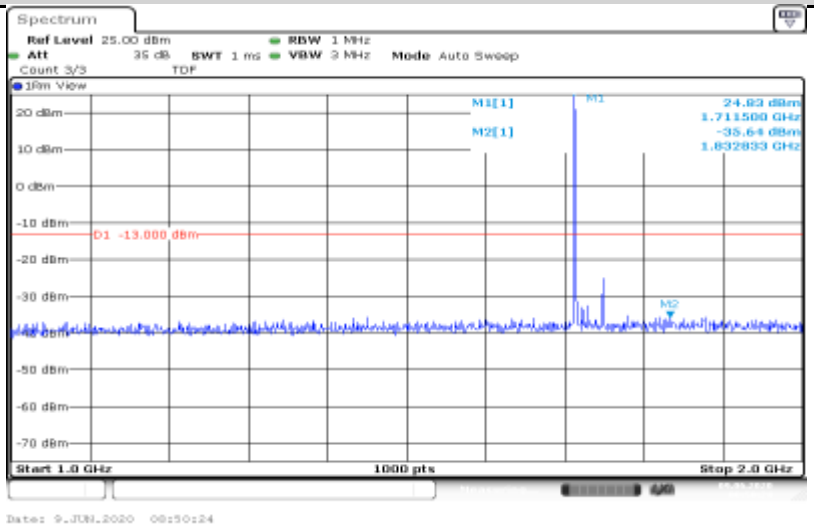
Band4-20MHz-QPSK-20300-1RB#0-Range3:2000~20000MHz



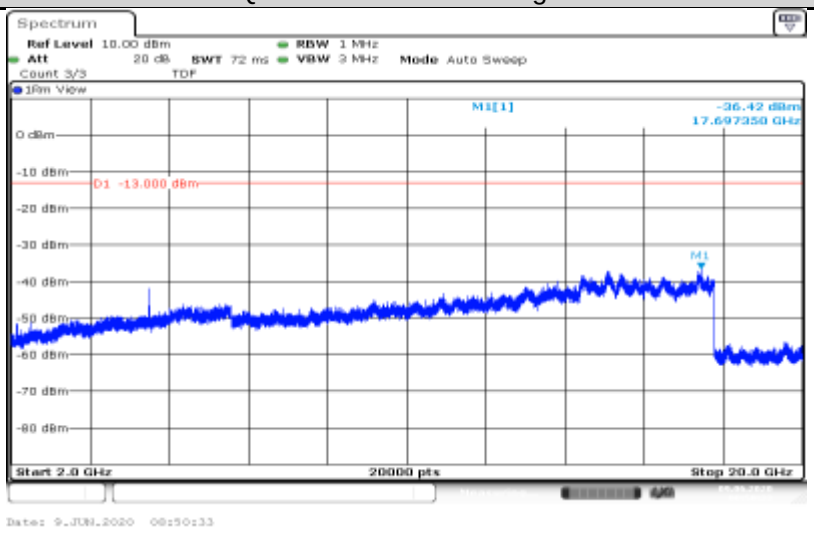
Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



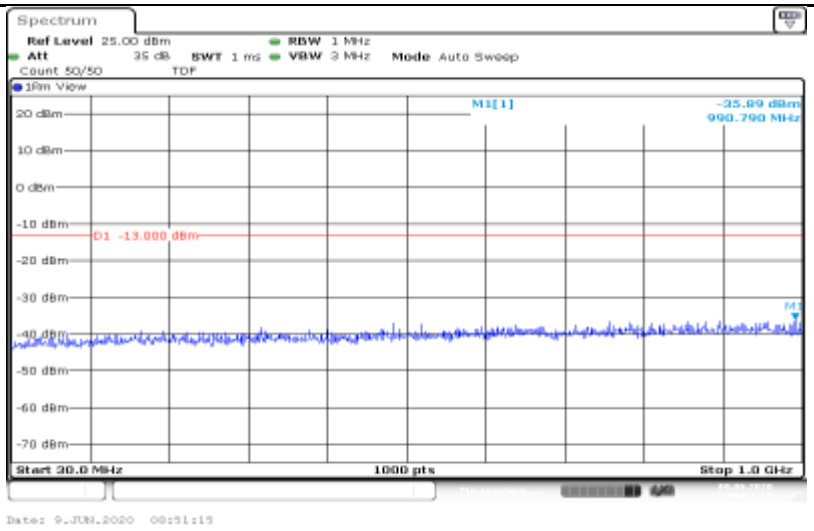
Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~2000MHz



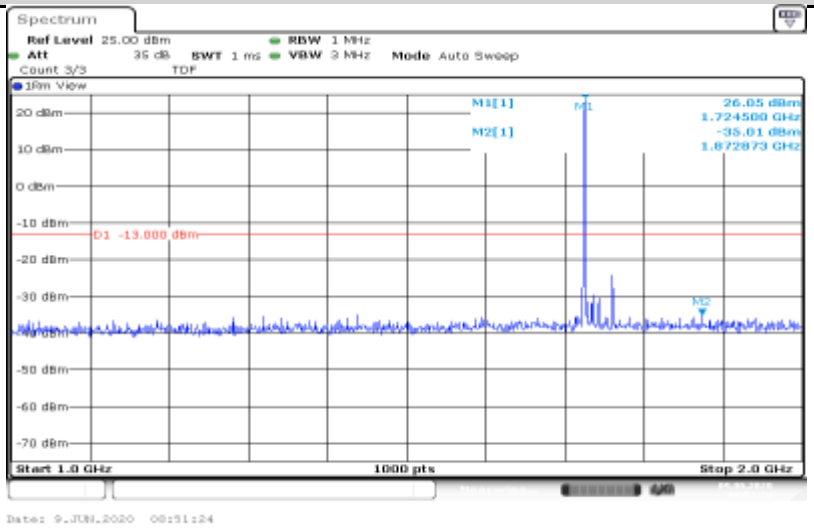
Band4-20MHz-16QAM-20050-1RB#0-Range3:2000~20000MHz



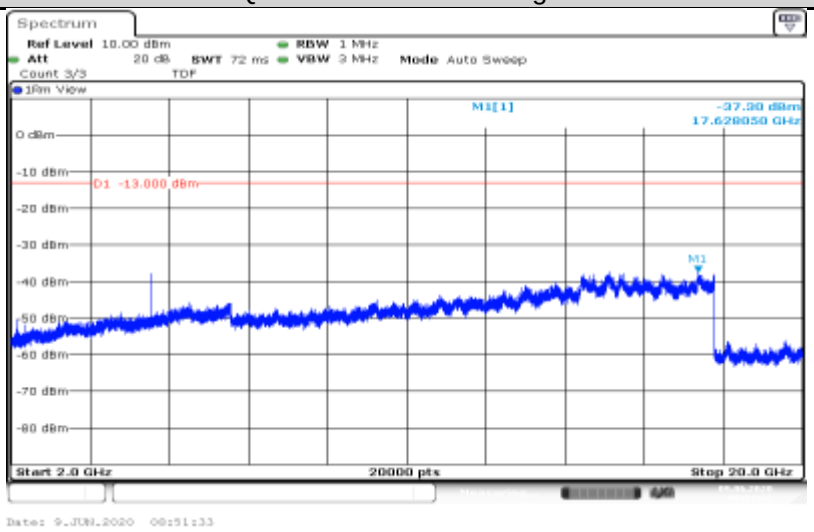
Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz



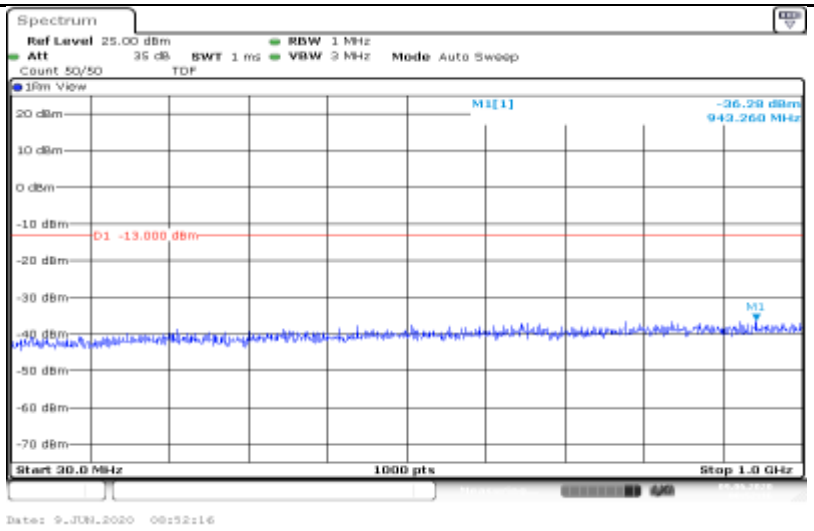
Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~2000MHz



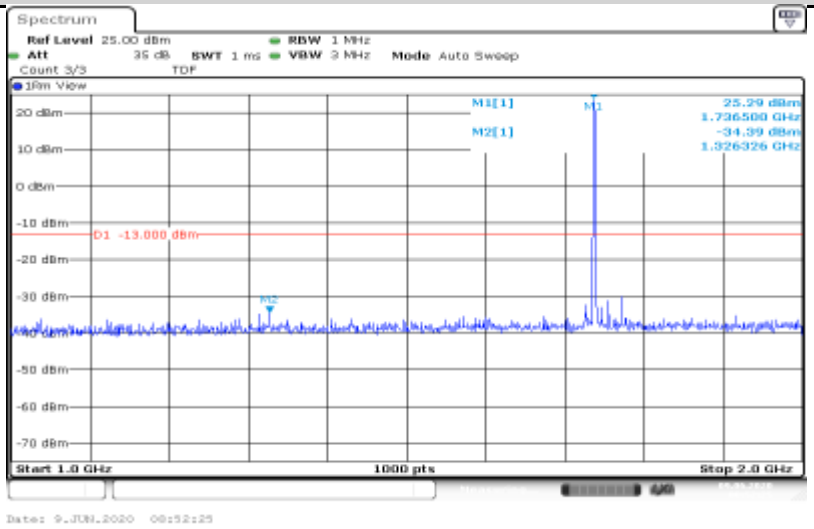
Band4-20MHz-16QAM-20175-1RB#0-Range3:2000~20000MHz



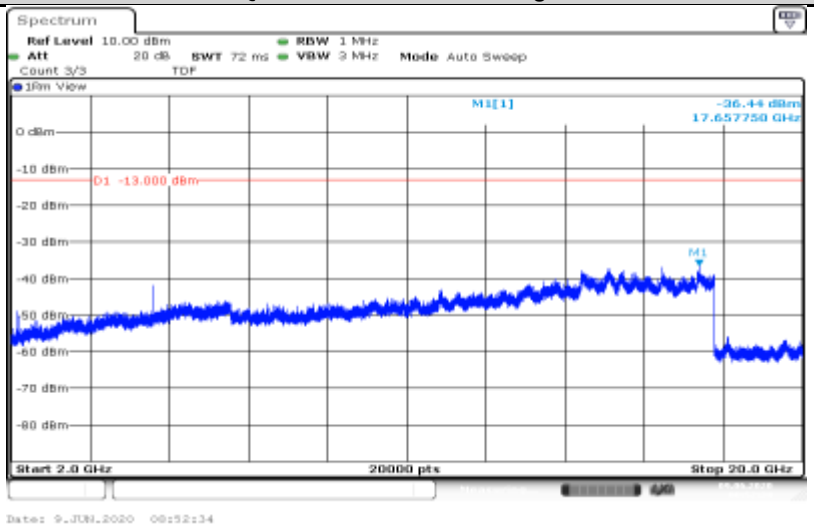
Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz



Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~2000MHz



Band4-20MHz-16QAM-20300-1RB#0-Range3:2000~20000MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	VL	NT	-11.06	-0.006430	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VN	NT	-2.36	-0.001372	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	VH	NT	-5.79	-0.003366	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-7.55	-0.004358	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	8.24	0.004756	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	7.65	0.004416	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VL	NT	-11.92	-0.006831	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VN	NT	-5.26	-0.003014	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	VH	NT	5.61	0.003215	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VL	NT	-16.24	-0.009442	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VN	NT	-2.57	-0.001494	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	VH	NT	-13.78	-0.008012	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VL	NT	-7.58	-0.004375	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VN	NT	7.24	0.004179	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	VH	NT	5.58	0.003221	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VL	NT	-3.73	-0.002138	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VN	NT	-14.26	-0.008172	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	VH	NT	-9.36	-0.005364	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band4	20MHz	QPSK	20050	100RB#0	NV	-30	-16.51	-0.009599	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	-20	-8.35	-0.004855	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	0	-4.29	-0.002494	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	10	-18.85	-0.010959	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	20	-14.15	-0.008227	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	30	-11.56	-0.006721	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	40	-8.27	-0.004808	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	50	-4.84	-0.002814	±2.5	PASS
Band4	20MHz	QPSK	20050	100RB#0	NV	55	-19.17	-0.011145	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-5.48	-0.003163	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	11.84	0.006834	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	4.59	0.002649	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	-7.94	-0.004583	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	6.07	0.003504	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-7.17	-0.004139	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	3.79	0.002188	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	12.07	0.006967	±2.5	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	55	2.17	0.001253	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-30	-5.66	-0.003244	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	-20	-10.81	-0.006195	±2.5	PASS

Band4	20MHz	QPSK	20300	100RB#0	NV	0	6.72	0.003851	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	10	-5.15	-0.002951	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	20	-12.53	-0.007181	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	30	3.98	0.002281	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	40	-10.30	-0.005903	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	50	-13.98	-0.008011	±2.5	PASS
Band4	20MHz	QPSK	20300	100RB#0	NV	55	3.08	0.001765	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-30	-6.77	-0.003936	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	-20	-18.25	-0.010610	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	0	-10.81	-0.006285	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	10	2.16	0.001256	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	20	-13.00	-0.007558	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	30	-6.44	-0.003744	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	40	-13.12	-0.007628	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	50	-18.70	-0.010872	±2.5	PASS
Band4	20MHz	16QAM	20050	100RB#0	NV	55	-8.27	-0.004808	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-30	13.53	0.007810	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	-20	7.88	0.004548	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	0	3.79	0.002188	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	10	-8.67	-0.005004	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	20	9.60	0.005541	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	30	-4.13	-0.002384	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	40	12.57	0.007255	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	50	9.01	0.005201	±2.5	PASS
Band4	20MHz	16QAM	20175	100RB#0	NV	55	-2.52	-0.001455	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-30	7.40	0.004241	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	-20	2.66	0.001524	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	0	-9.88	-0.005662	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	10	-13.53	-0.007754	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	20	6.25	0.003582	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	30	-3.72	-0.002132	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	40	-6.29	-0.003605	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	50	-11.79	-0.006756	±2.5	PASS
Band4	20MHz	16QAM	20300	100RB#0	NV	55	-13.70	-0.007851	±2.5	PASS

Appendix E: Test Results of LTE Band 5 operation

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.70	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.77	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.68	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.74	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.79	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.70	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.73	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	22.66	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	22.57	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	22.66	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	22.71	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	22.70	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	22.58	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.57	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	22.66	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	22.69	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	22.71	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	22.61	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	22.65	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	22.62	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.71	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.71	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.82	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.69	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.67	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.68	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.64	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.86	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	21.69	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	21.71	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	21.58	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	21.54	PASS

Band5	1.4MHz	16QAM	20525	3RB#0	21.59	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.60	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.75	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	21.65	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.66	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.50	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.56	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	21.57	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	21.51	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.69	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.70	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.82	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.76	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.81	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.82	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.92	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.90	PASS
Band5	3MHz	QPSK	20525	1RB#0	22.76	PASS
Band5	3MHz	QPSK	20525	1RB#14	22.73	PASS
Band5	3MHz	QPSK	20525	1RB#8	22.68	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.65	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.70	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.72	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.72	PASS
Band5	3MHz	QPSK	20635	1RB#8	22.65	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.69	PASS
Band5	3MHz	QPSK	20635	1RB#14	22.68	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.68	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.72	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.67	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.69	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.90	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.85	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.88	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.01	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.90	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.89	PASS

Band5	3MHz	16QAM	20415	15RB#0	21.01	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.58	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.67	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.64	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.75	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.78	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.78	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.69	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.76	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.78	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.71	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.81	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.83	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.81	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.77	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.84	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.94	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.79	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.97	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.97	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.88	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.89	PASS
Band5	5MHz	QPSK	20525	1RB#0	22.78	PASS
Band5	5MHz	QPSK	20525	1RB#24	22.78	PASS
Band5	5MHz	QPSK	20525	1RB#12	22.77	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.77	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.77	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.67	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.70	PASS
Band5	5MHz	QPSK	20625	1RB#24	22.77	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.70	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.81	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.72	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.69	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.71	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.66	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.83	PASS

Band5	5MHz	16QAM	20425	1RB#12	21.95	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.84	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.02	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.02	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.95	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.99	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.91	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.90	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.90	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.85	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.94	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.89	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.78	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.82	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.74	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.74	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.76	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.74	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.77	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.73	PASS
Band5	10MHz	QPSK	20450	1RB#49	22.80	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.74	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.73	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.90	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.89	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.86	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.90	PASS
Band5	10MHz	QPSK	20525	1RB#0	22.76	PASS
Band5	10MHz	QPSK	20525	1RB#49	22.71	PASS
Band5	10MHz	QPSK	20525	1RB#24	22.72	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.65	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.80	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.83	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.74	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.68	PASS
Band5	10MHz	QPSK	20600	1RB#0	22.77	PASS
Band5	10MHz	QPSK	20600	1RB#49	22.67	PASS

Band5	10MHz	QPSK	20600	25RB#0	21.81	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.69	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.81	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.74	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.91	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.86	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.85	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.89	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.98	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.96	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.00	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.59	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.71	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.66	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.75	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.91	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.90	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.83	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.77	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.87	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.80	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.86	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.84	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.77	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.81	PASS

2. Peak-to-Average Ratio (CCDF)

2.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	4.64	13	PASS
Band5	10MHz	QPSK	20525	50RB#0	4.70	13	PASS
Band5	10MHz	QPSK	20600	50RB#0	4.64	13	PASS
Band5	10MHz	16QAM	20450	50RB#0	4.64	13	PASS
Band5	10MHz	16QAM	20525	50RB#0	4.70	13	PASS
Band5	10MHz	16QAM	20600	50RB#0	4.64	13	PASS

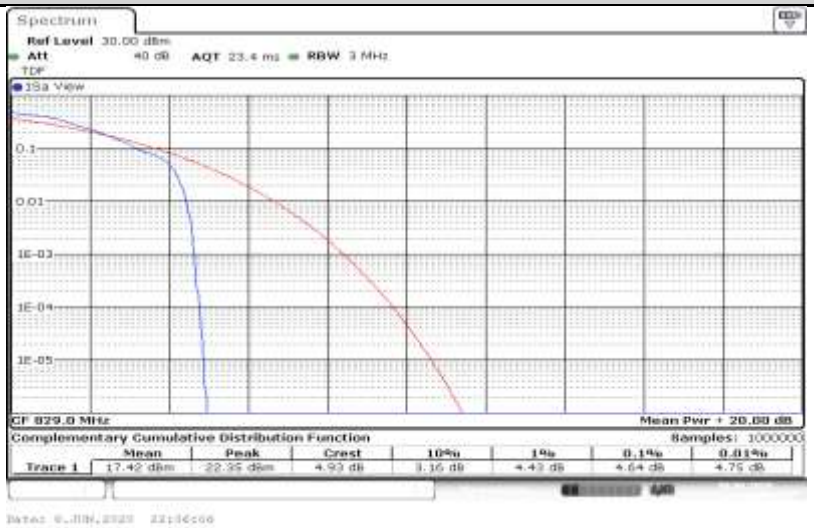
2.2 Test Graphs

Band5-10MHz-QPSK-20450-50RB#0

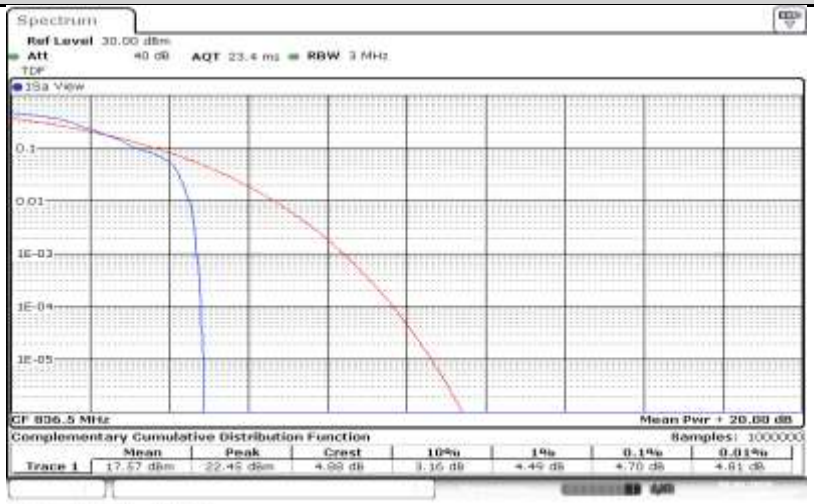
Band5-10MHz-QPSK-20525-50RB#0

Band5-10MHz-QPSK-20600-50RB#0

Band5-10MHz-16QAM-20450-50RB#0



Band5-10MHz-16QAM-20525-50RB#0



Band5-10MHz-16QAM-20600-50RB#0

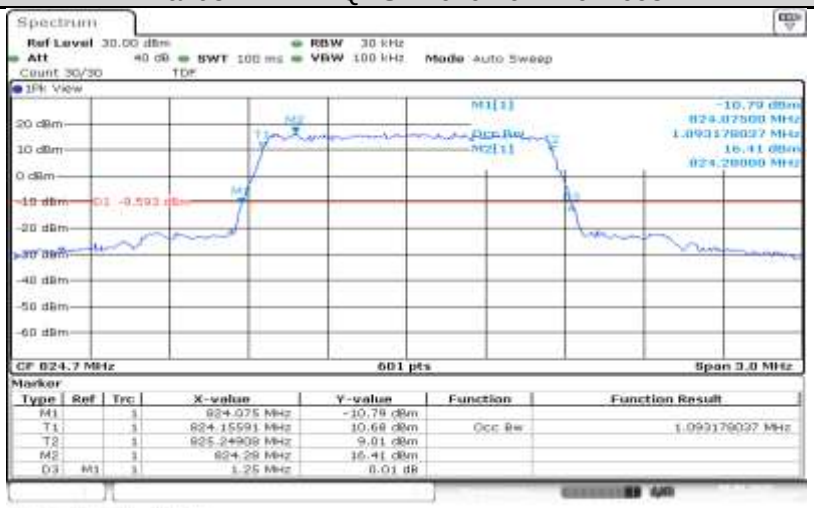
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

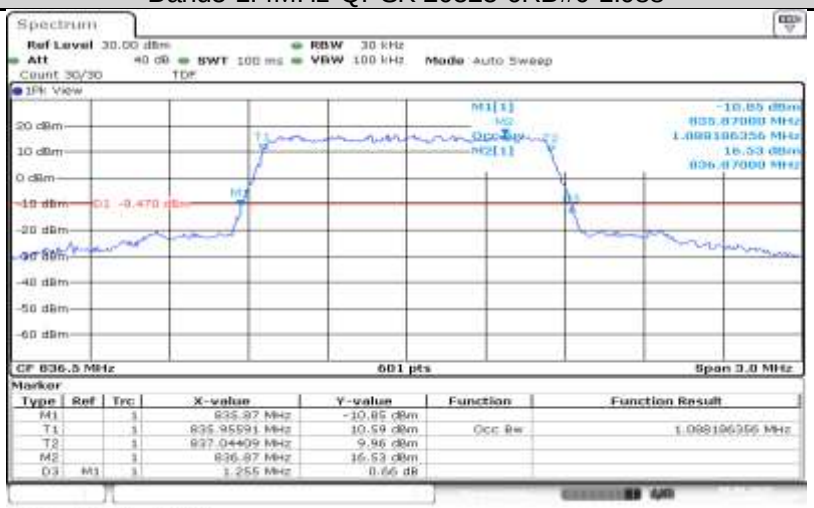
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	1.093	1.250	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	1.088	1.255	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	1.093	1.245	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	1.088	1.240	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	1.098	1.255	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	1.098	1.250	PASS
Band5	3MHz	QPSK	20415	15RB#0	2.696	3.000	PASS
Band5	3MHz	QPSK	20525	15RB#0	2.696	2.990	PASS
Band5	3MHz	QPSK	20635	15RB#0	2.705	3.000	PASS
Band5	3MHz	16QAM	20415	15RB#0	2.696	3.000	PASS
Band5	3MHz	16QAM	20525	15RB#0	2.696	3.010	PASS
Band5	3MHz	16QAM	20635	15RB#0	2.696	3.020	PASS
Band5	5MHz	QPSK	20425	25RB#0	4.486	4.920	PASS
Band5	5MHz	QPSK	20525	25RB#0	4.466	4.910	PASS
Band5	5MHz	QPSK	20625	25RB#0	4.486	4.940	PASS
Band5	5MHz	16QAM	20425	25RB#0	4.486	4.840	PASS
Band5	5MHz	16QAM	20525	25RB#0	4.476	4.920	PASS
Band5	5MHz	16QAM	20625	25RB#0	4.476	4.880	PASS
Band5	10MHz	QPSK	20450	50RB#0	8.952	9.767	PASS
Band5	10MHz	QPSK	20525	50RB#0	8.918	9.733	PASS
Band5	10MHz	QPSK	20600	50RB#0	8.952	9.733	PASS
Band5	10MHz	16QAM	20450	50RB#0	8.985	9.667	PASS
Band5	10MHz	16QAM	20525	50RB#0	8.952	9.667	PASS
Band5	10MHz	16QAM	20600	50RB#0	8.952	9.667	PASS

3.2 Test Graphs

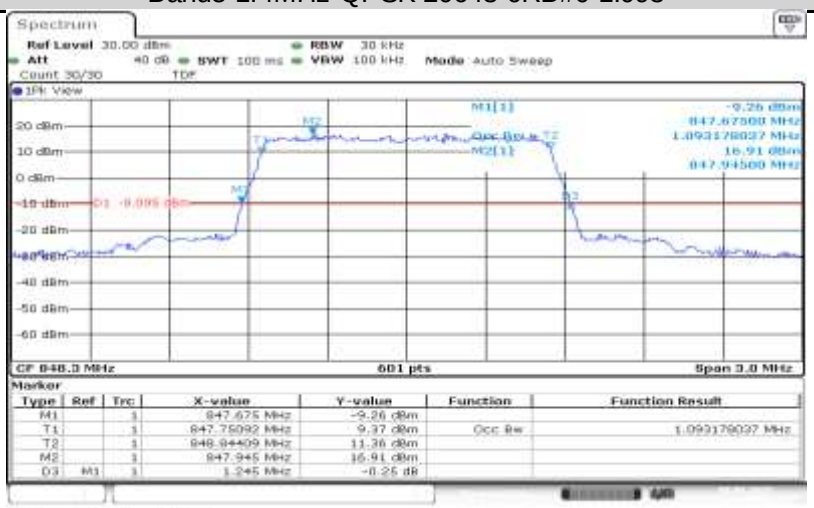
Band5-1.4MHz-QPSK-20407-6RB#0-1.093



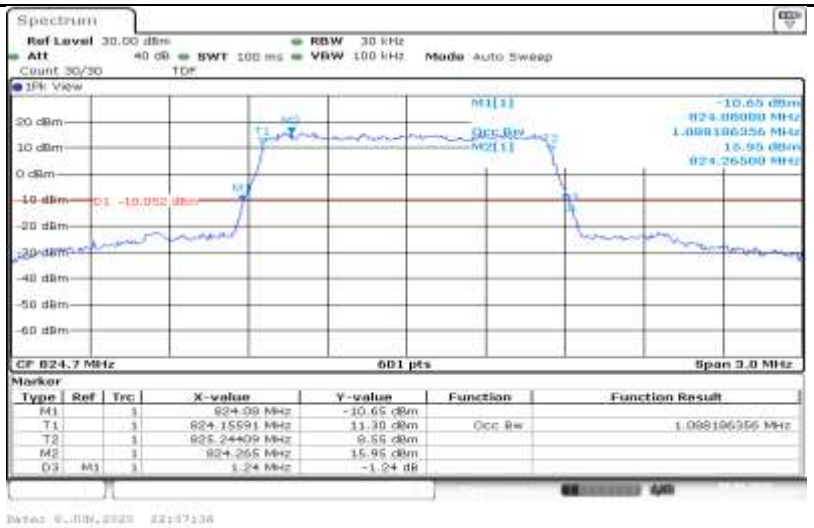
Band5-1.4MHz-QPSK-20525-6RB#0-1.088



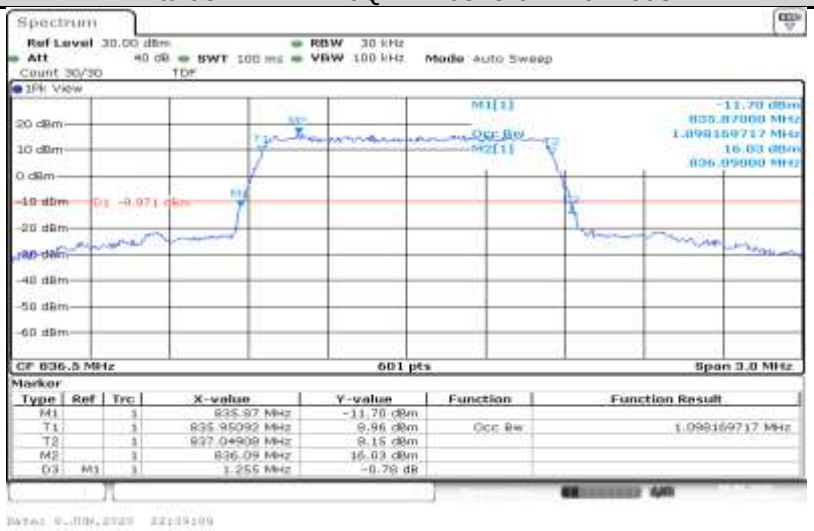
Band5-1.4MHz-QPSK-20643-6RB#0-1.093



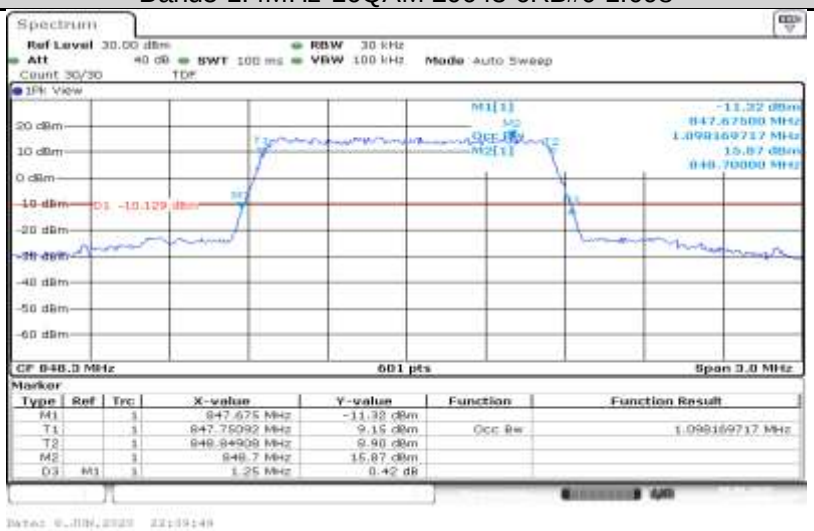
Band5-1.4MHz-16QAM-20407-6RB#0-1.088



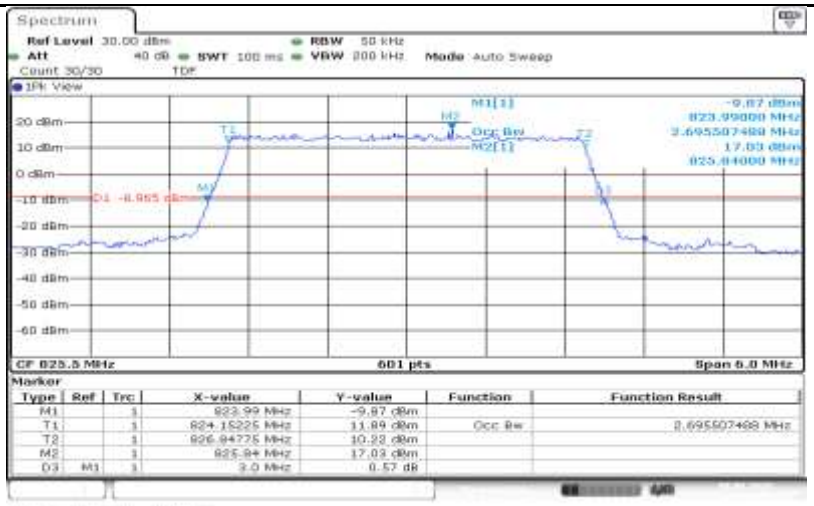
Band5-1.4MHz-16QAM-20525-6RB#0-1.098



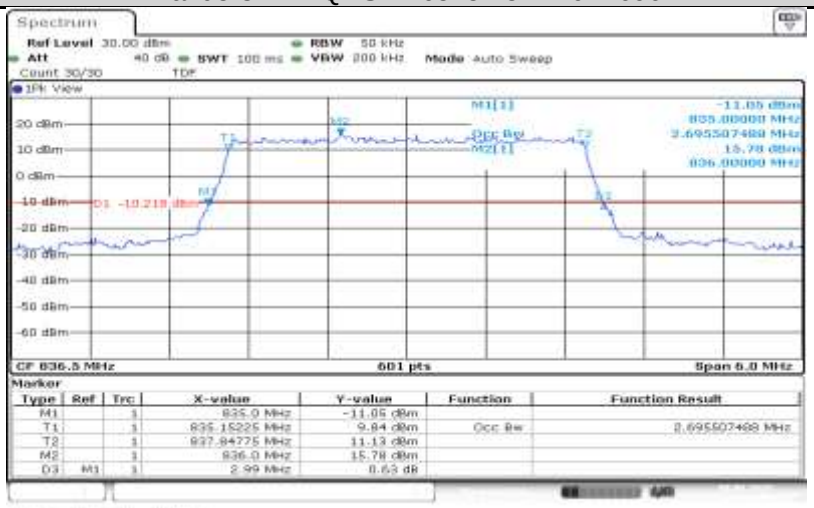
Band5-1.4MHz-16QAM-20643-6RB#0-1.098



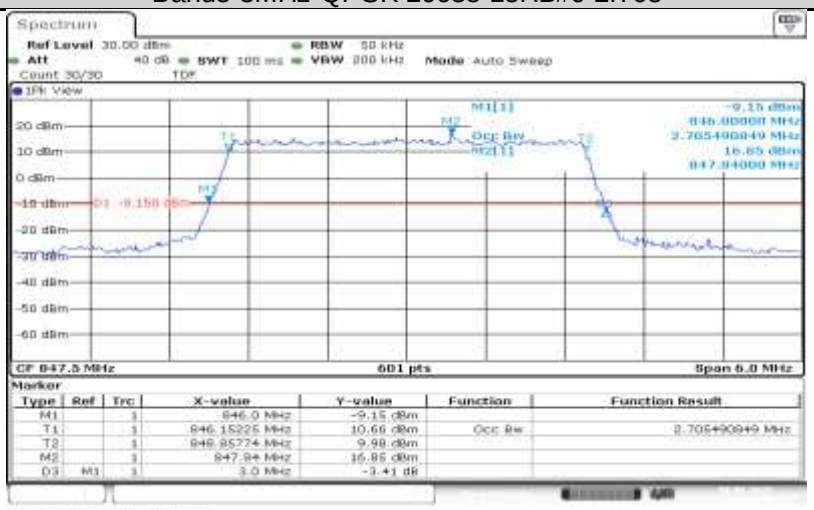
Band5-3MHz-QPSK-20415-15RB#0-2.696



Band5-3MHz-QPSK-20525-15RB#0-2.696

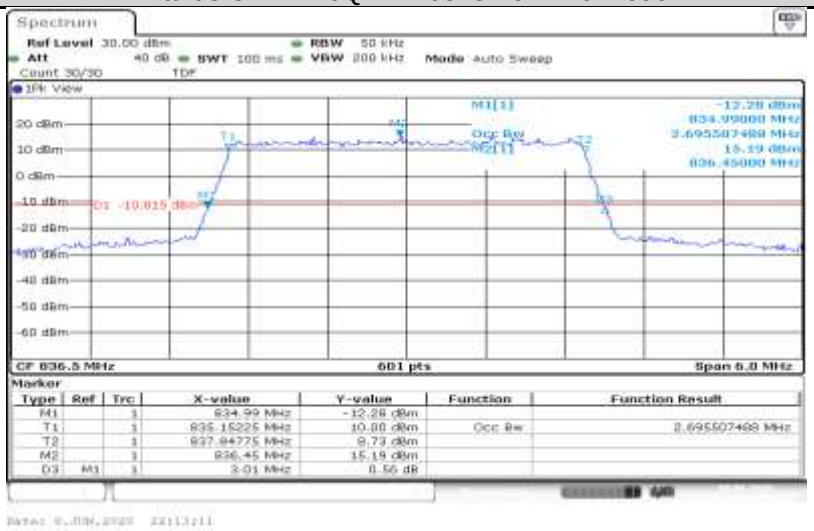


Band5-3MHz-QPSK-20635-15RB#0-2.705

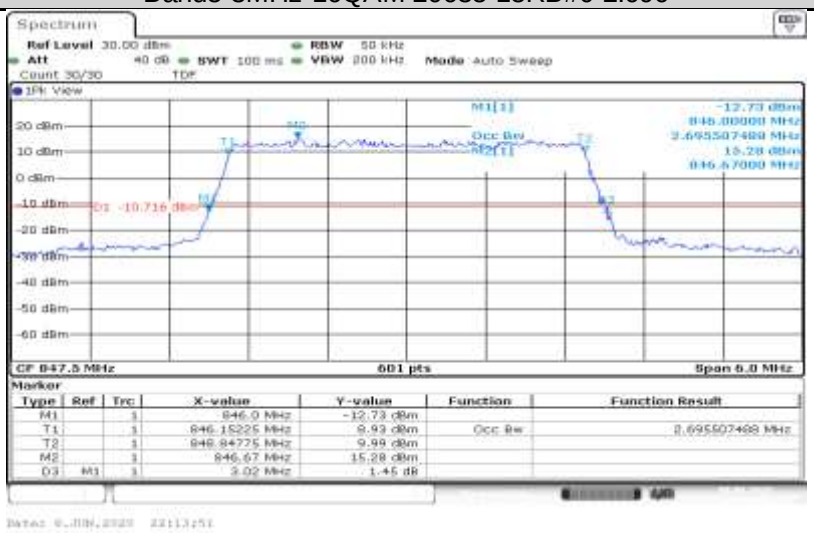


Band5-3MHz-16QAM-20415-15RB#0-2.696

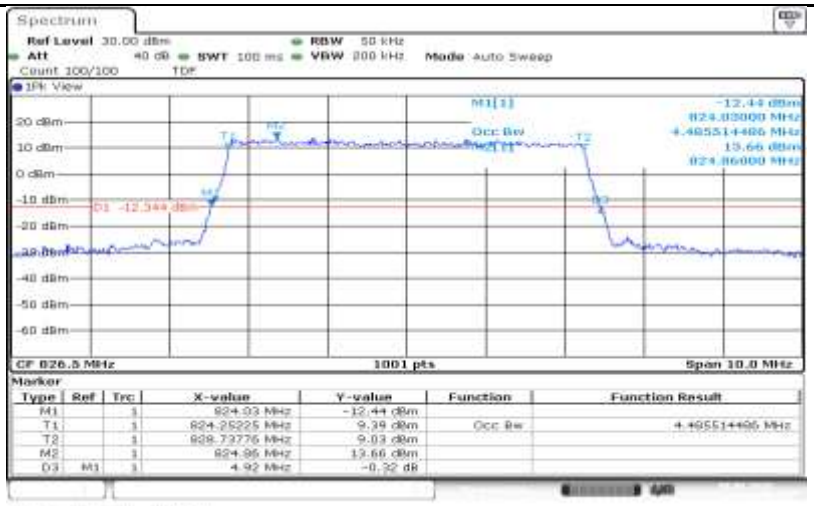
Band5-3MHz-16QAM-20525-15RB#0-2.696



Band5-3MHz-16QAM-20635-15RB#0-2.696

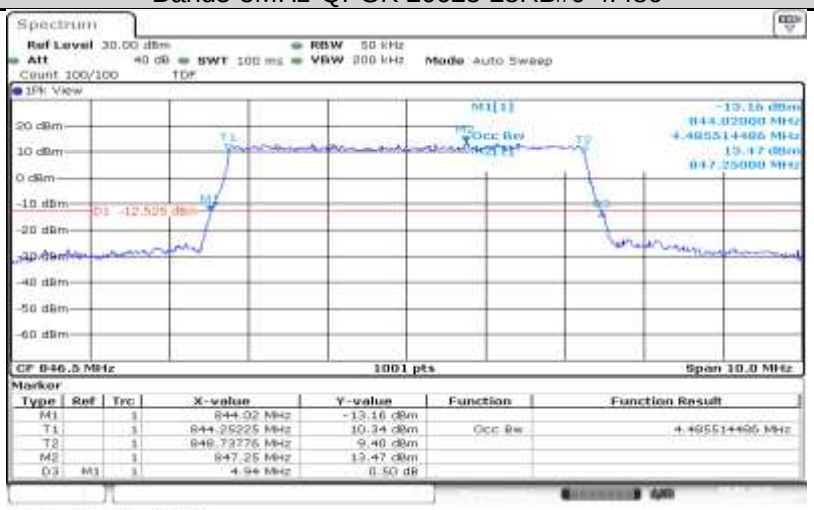


Band5-5MHz-QPSK-20425-25RB#0-4.486



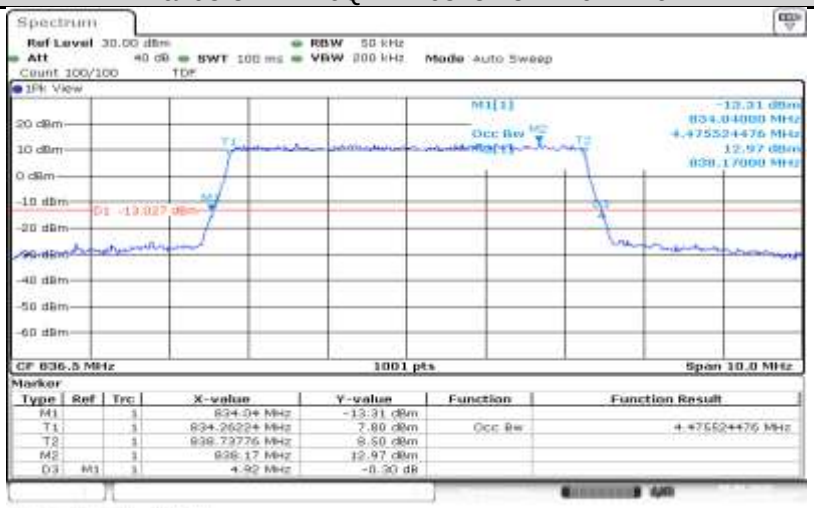
Band5-5MHz-QPSK-20525-25RB#0-4.466

Band5-5MHz-QPSK-20625-25RB#0-4.486

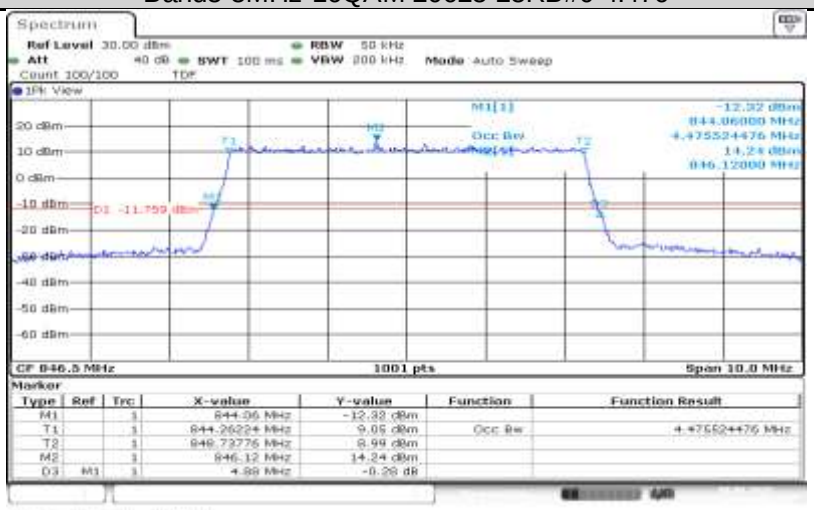


Band5-5MHz-16QAM-20425-25RB#0-4.486

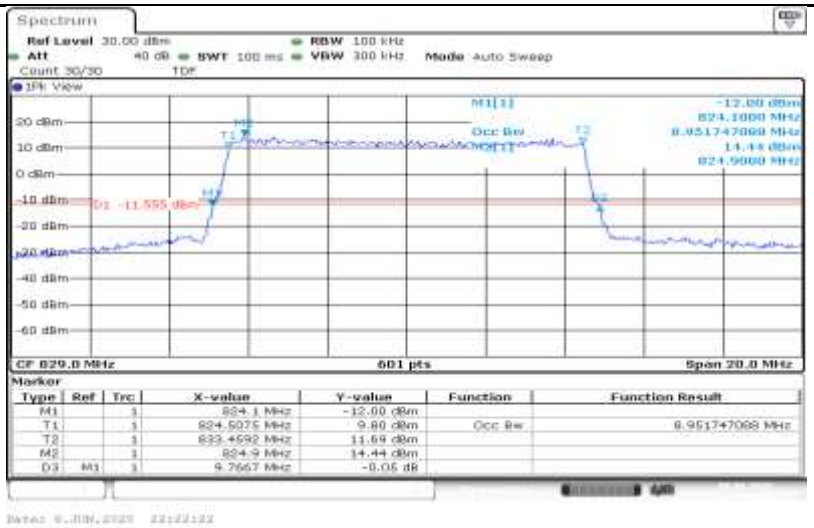
Band5-5MHz-16QAM-20525-25RB#0-4.476



Band5-5MHz-16QAM-20625-25RB#0-4.476

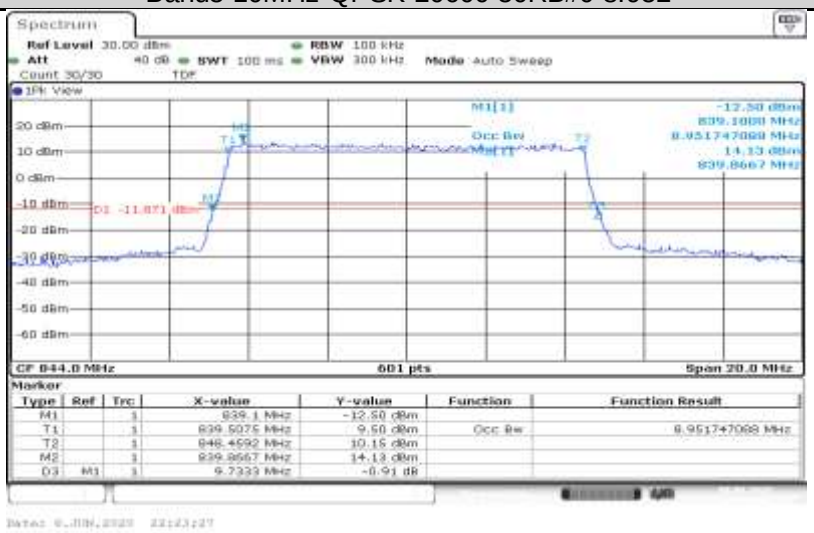


Band5-10MHz-QPSK-20450-50RB#0-8.952

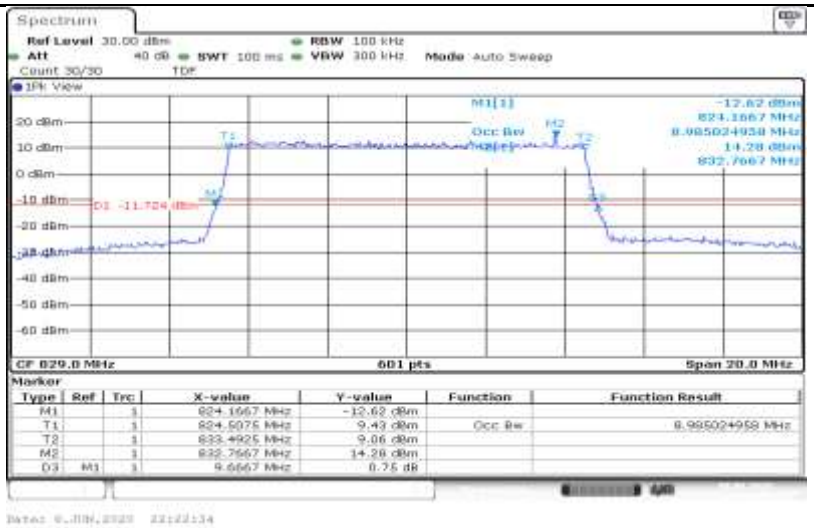


Band5-10MHz-QPSK-20525-50RB#0-8.918

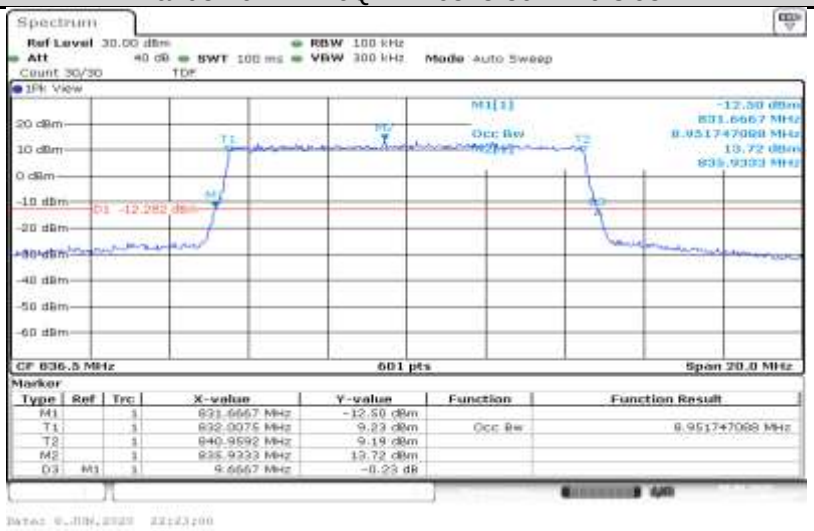
Band5-10MHz-QPSK-20600-50RB#0-8.952



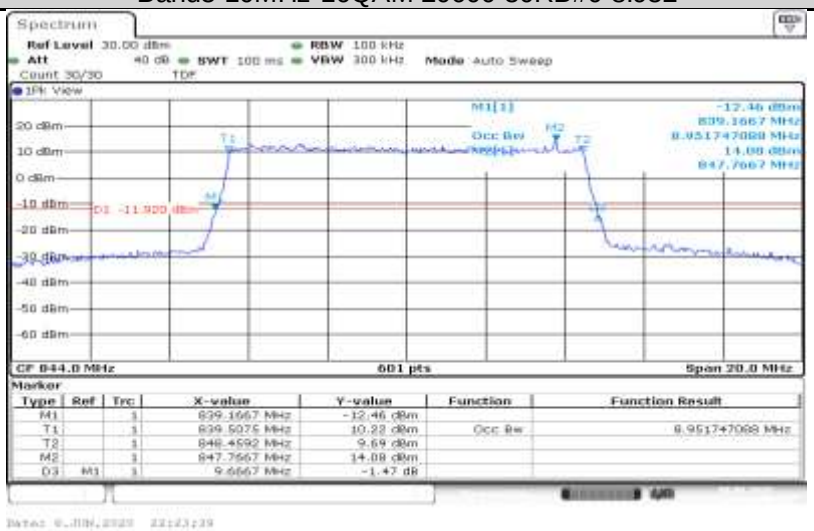
Band5-10MHz-16QAM-20450-50RB#0-8.985



Band5-10MHz-16QAM-20525-50RB#0-8.952



Band5-10MHz-16QAM-20600-50RB#0-8.952



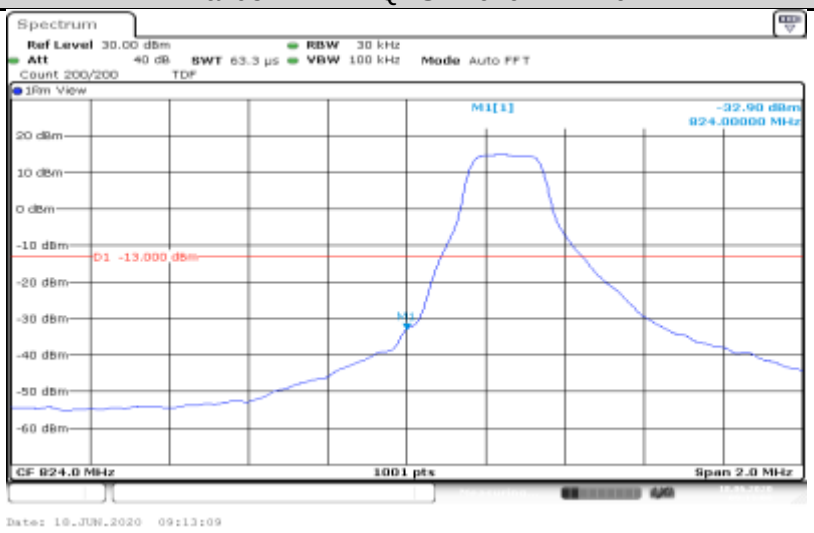
3.3 Band Edge

4.1 Test Result

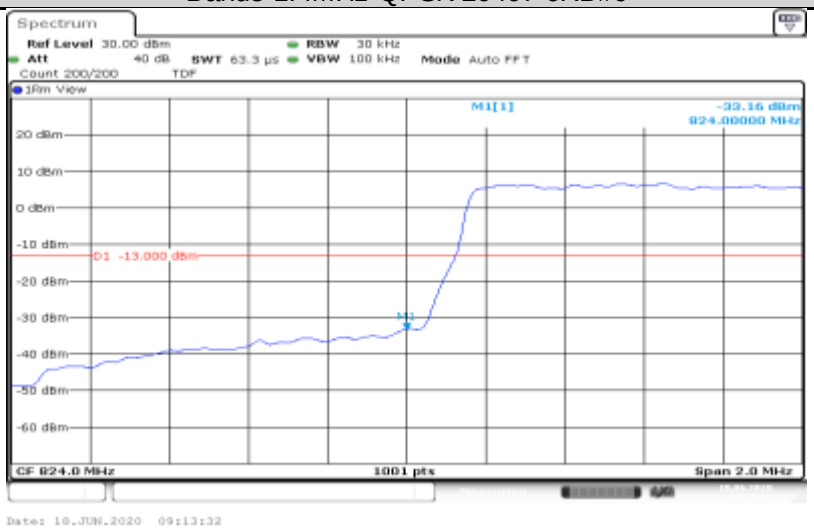
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	-32.90	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	-33.16	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	-30.32	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	-34.57	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	-34.65	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	-34.60	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	-30.51	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	-34.26	PASS
Band5	3MHz	QPSK	20415	1RB#0	-19.16	PASS
Band5	3MHz	QPSK	20415	15RB#0	-24.23	PASS
Band5	3MHz	QPSK	20635	1RB#14	-17.51	PASS
Band5	3MHz	QPSK	20635	15RB#0	-26.51	PASS
Band5	3MHz	16QAM	20415	1RB#0	-20.05	PASS
Band5	3MHz	16QAM	20415	15RB#0	-27.79	PASS
Band5	3MHz	16QAM	20635	1RB#14	-20.78	PASS
Band5	3MHz	16QAM	20635	15RB#0	-27.95	PASS
Band5	5MHz	QPSK	20425	1RB#0	-24.79	PASS
Band5	5MHz	QPSK	20425	25RB#0	-30.46	PASS
Band5	5MHz	QPSK	20625	1RB#24	-23.67	PASS
Band5	5MHz	QPSK	20625	25RB#0	-30.38	PASS
Band5	5MHz	16QAM	20425	1RB#0	-26.57	PASS
Band5	5MHz	16QAM	20425	25RB#0	-32.10	PASS
Band5	5MHz	16QAM	20625	1RB#24	-26.52	PASS
Band5	5MHz	16QAM	20625	25RB#0	-32.36	PASS
Band5	10MHz	QPSK	20450	1RB#0	-34.93	PASS
Band5	10MHz	QPSK	20450	50RB#0	-32.00	PASS
Band5	10MHz	QPSK	20600	1RB#49	-34.63	PASS
Band5	10MHz	QPSK	20600	50RB#0	-32.40	PASS
Band5	10MHz	16QAM	20450	1RB#0	-37.67	PASS
Band5	10MHz	16QAM	20450	50RB#0	-35.53	PASS
Band5	10MHz	16QAM	20600	1RB#49	-36.42	PASS
Band5	10MHz	16QAM	20600	50RB#0	-35.34	PASS

4.2 Test Graphs

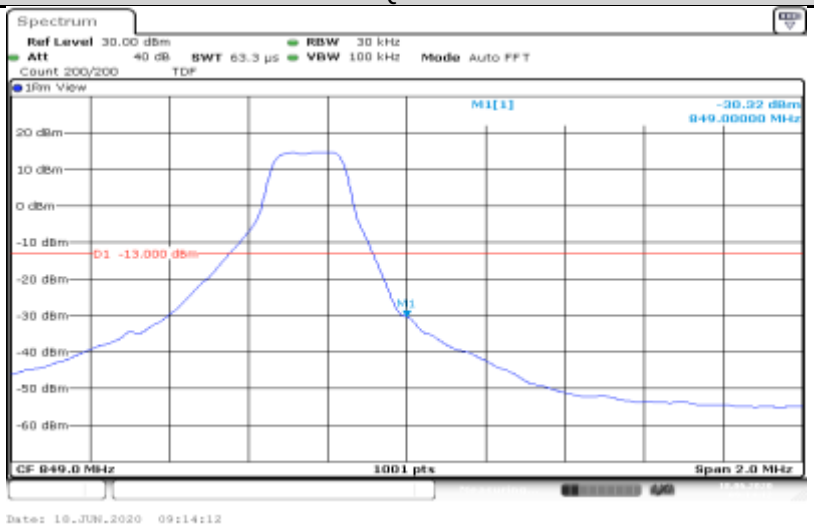
Band5-1.4MHz-QPSK-20407-1RB#0



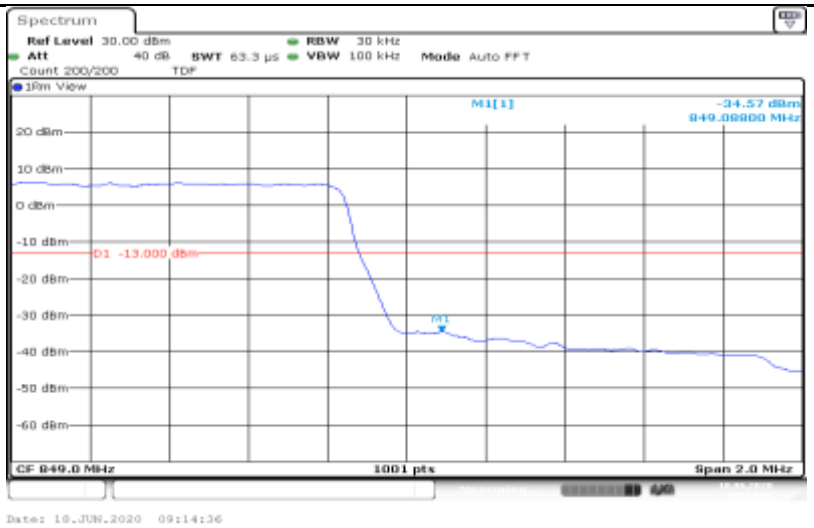
Band5-1.4MHz-QPSK-20407-6RB#0



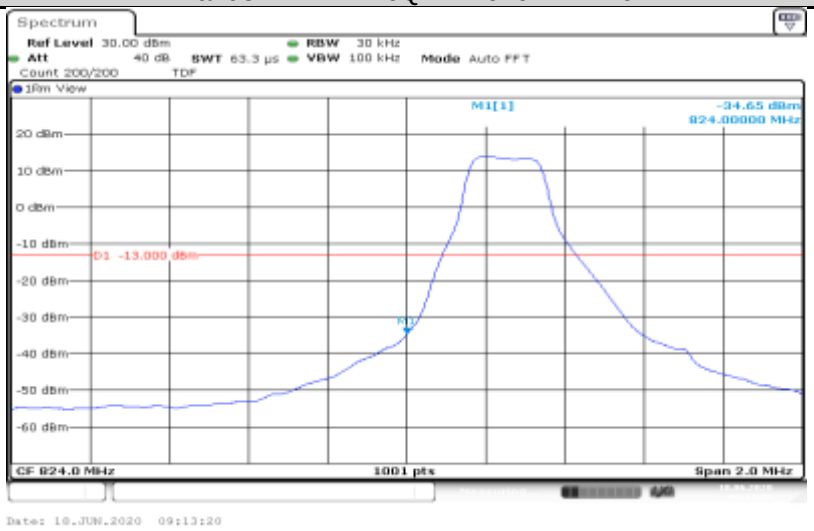
Band5-1.4MHz-QPSK-20643-1RB#5



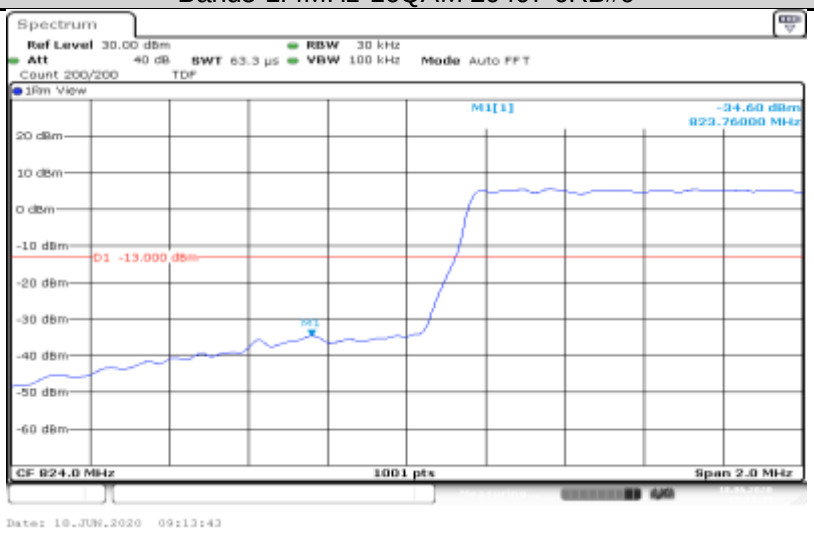
Band5-1.4MHz-QPSK-20643-6RB#0



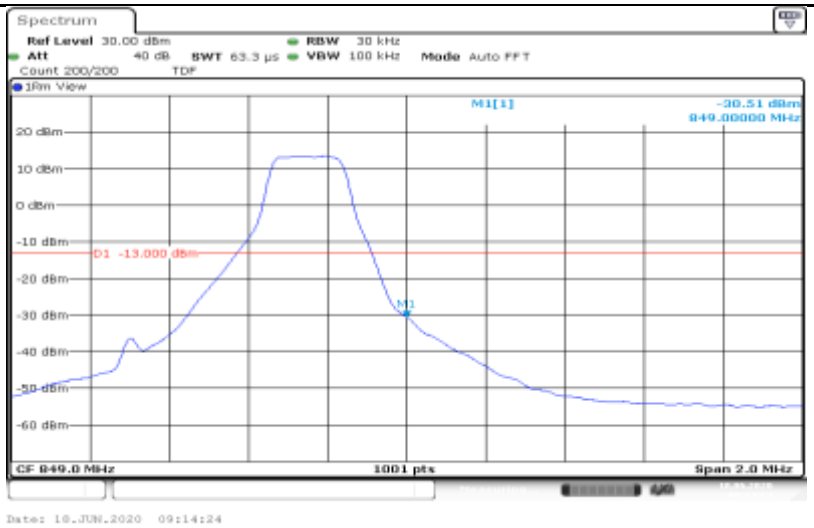
Band5-1.4MHz-16QAM-20407-1RB#0



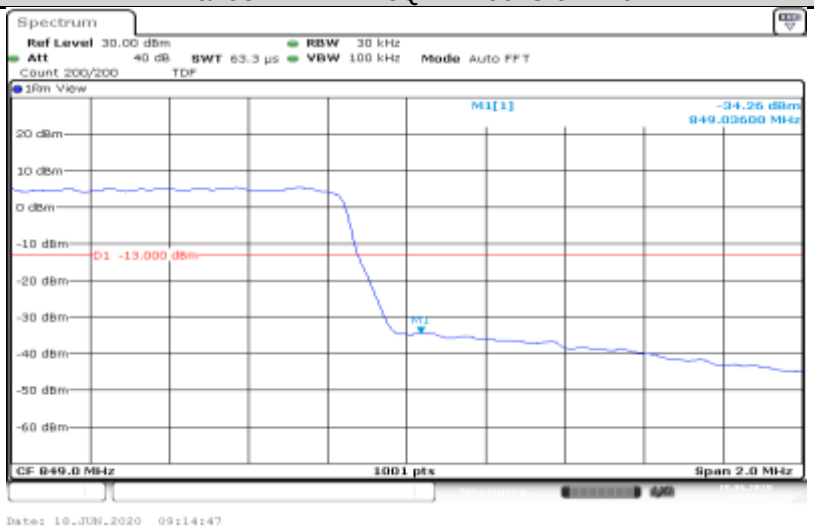
Band5-1.4MHz-16QAM-20407-6RB#0



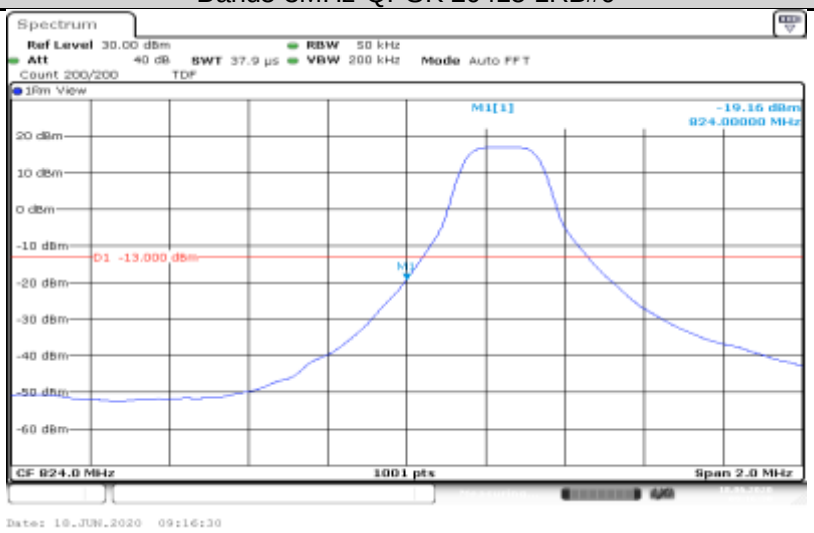
Band5-1.4MHz-16QAM-20643-1RB#5



Band5-1.4MHz-16QAM-20643-6RB#0

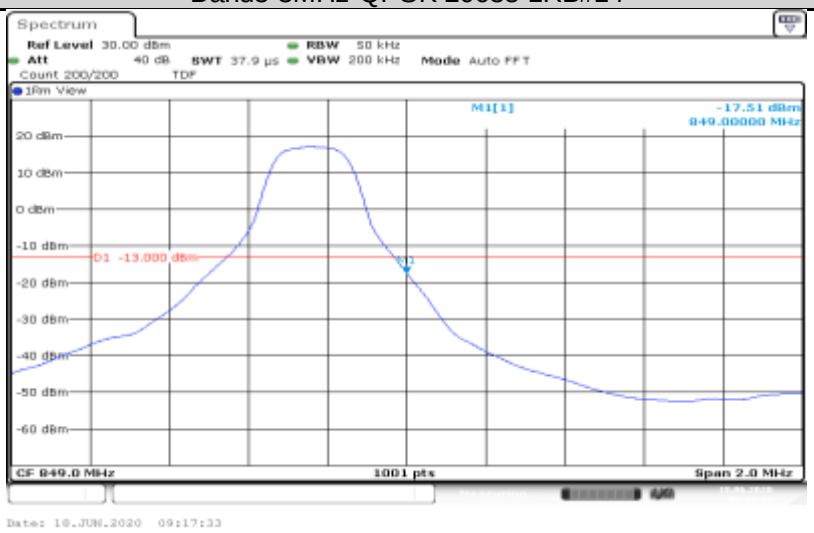


Band5-3MHz-QPSK-20415-1RB#0

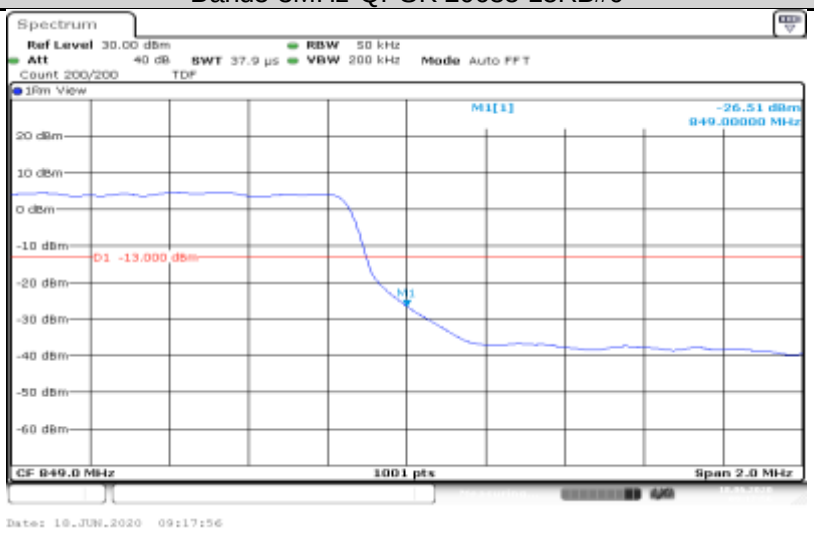


Band5-3MHz-QPSK-20415-15RB#0

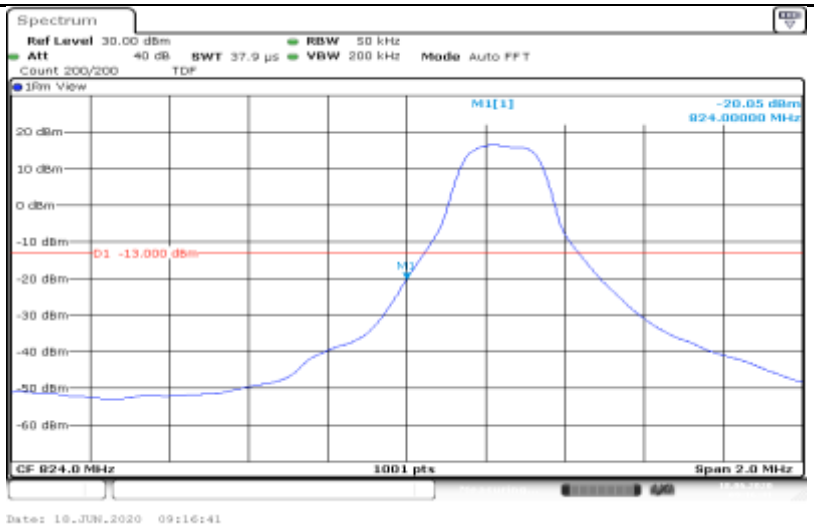
Band5-3MHz-QPSK-20635-1RB#14



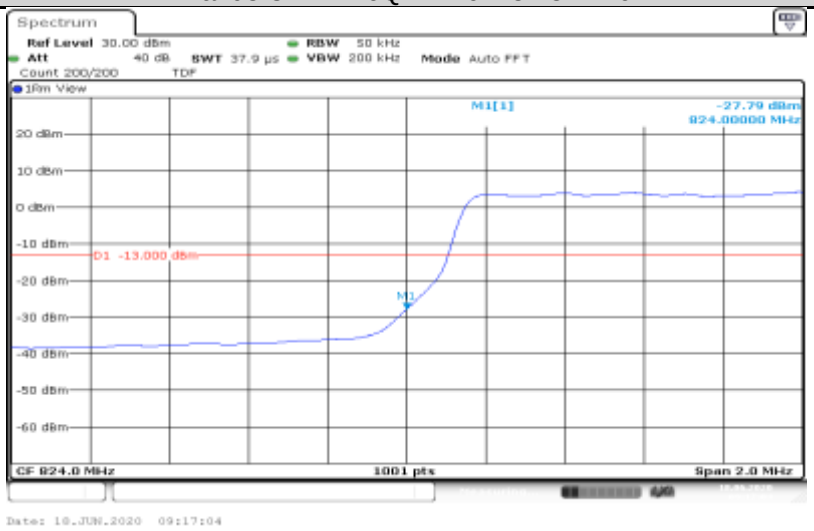
Band5-3MHz-QPSK-20635-15RB#0



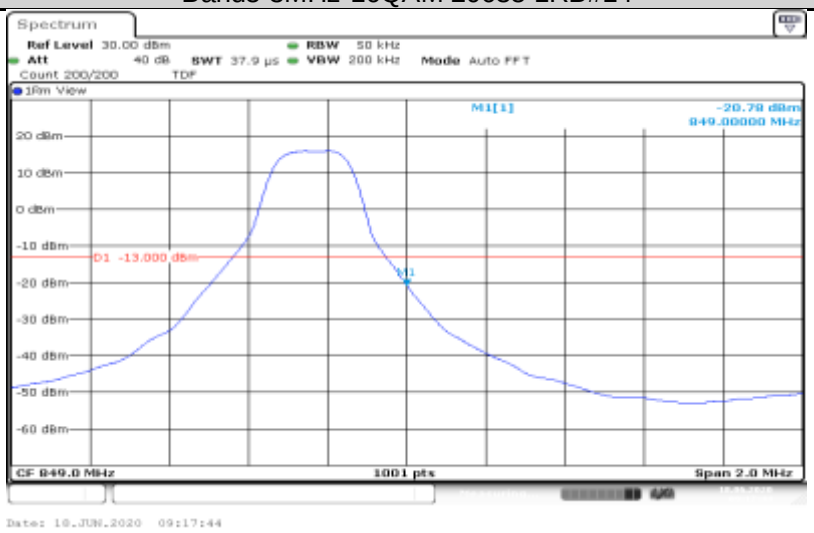
Band5-3MHz-16QAM-20415-1RB#0



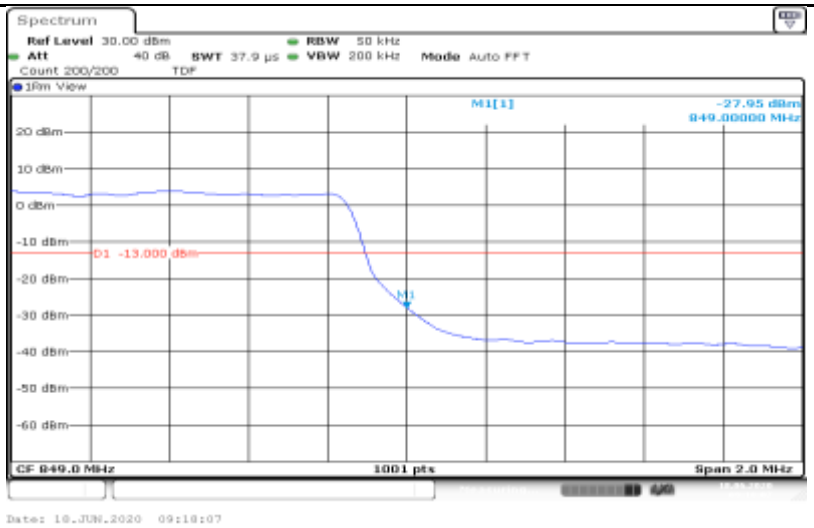
Band5-3MHz-16QAM-20415-15RB#0



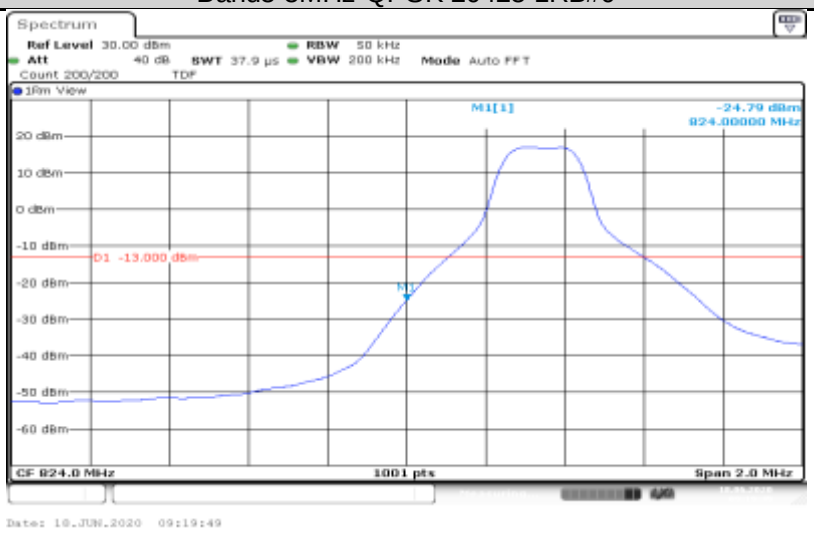
Band5-3MHz-16QAM-20635-1RB#14



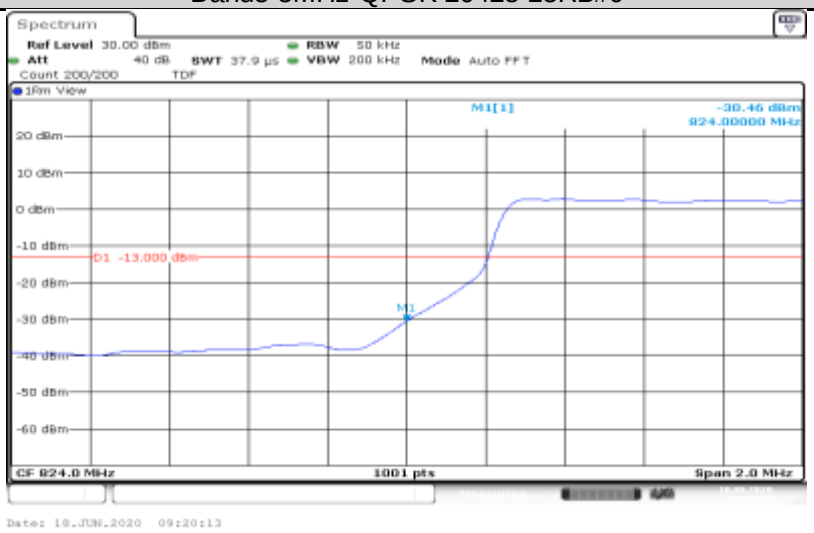
Band5-3MHz-16QAM-20635-15RB#0



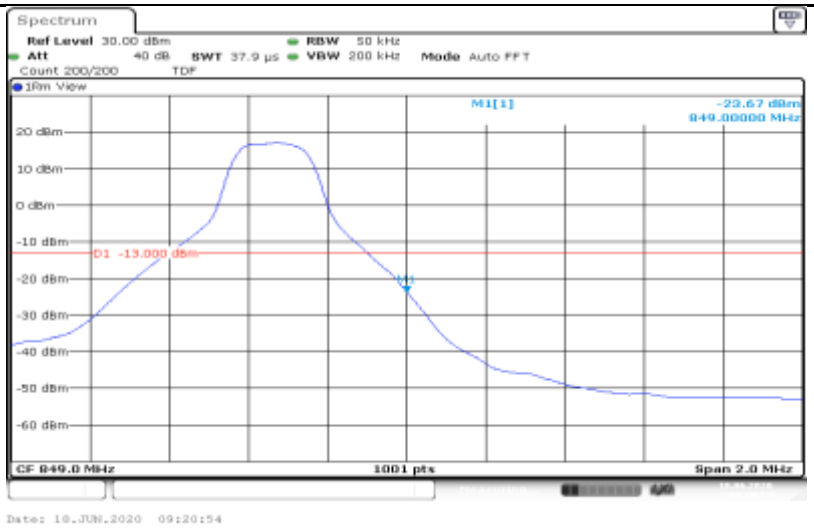
Band5-5MHz-QPSK-20425-1RB#0



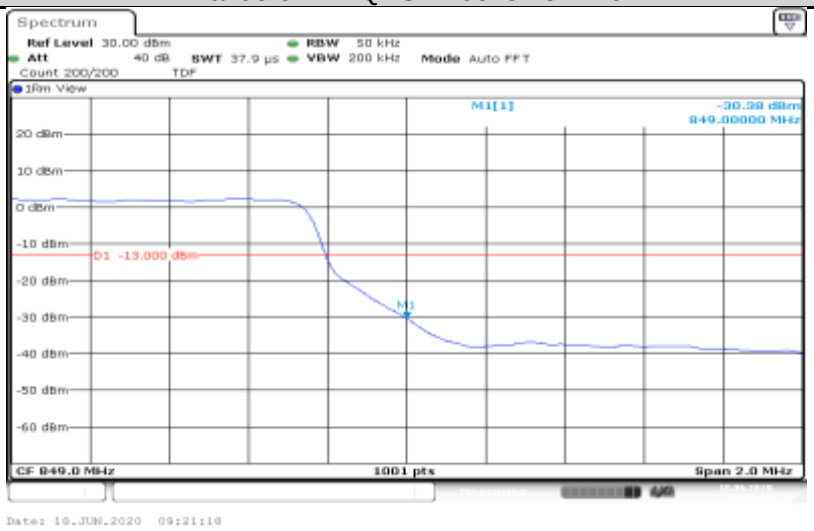
Band5-5MHz-QPSK-20425-25RB#0



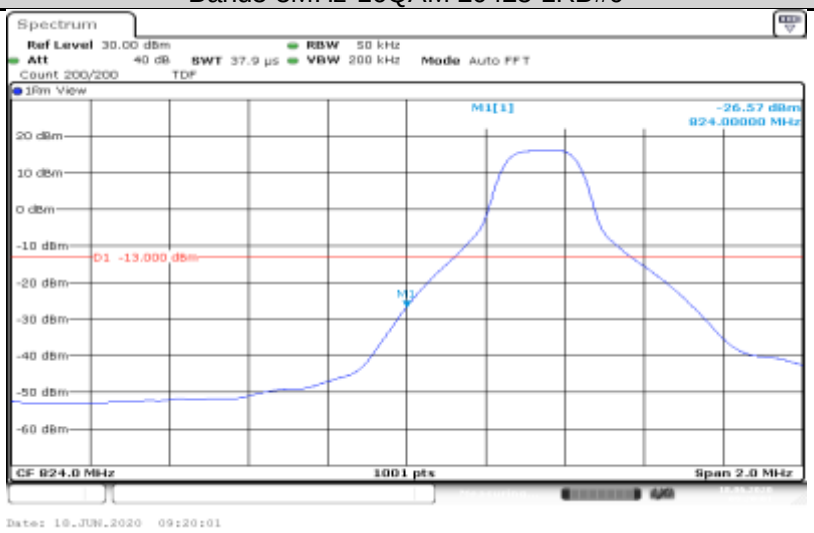
Band5-5MHz-QPSK-20625-1RB#24



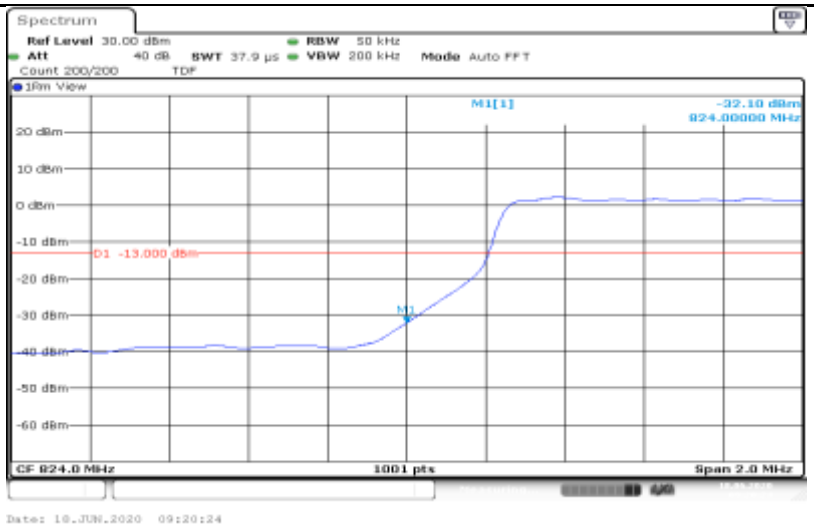
Band5-5MHz-QPSK-20625-25RB#0



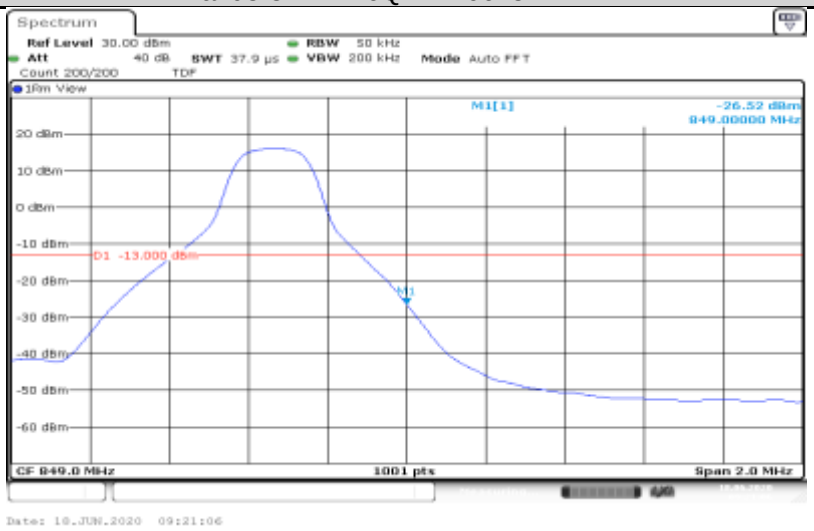
Band5-5MHz-16QAM-20425-1RB#0



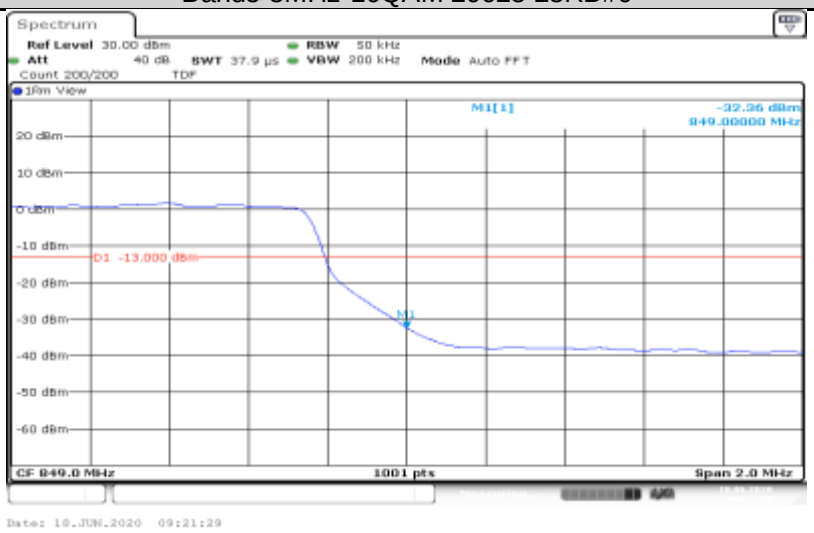
Band5-5MHz-16QAM-20425-25RB#0



Band5-5MHz-16QAM-20625-1RB#24

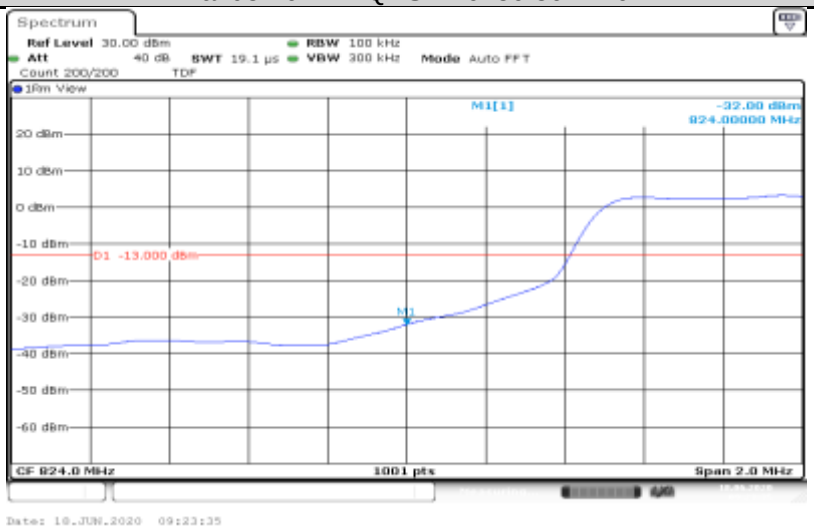


Band5-5MHz-16QAM-20625-25RB#0

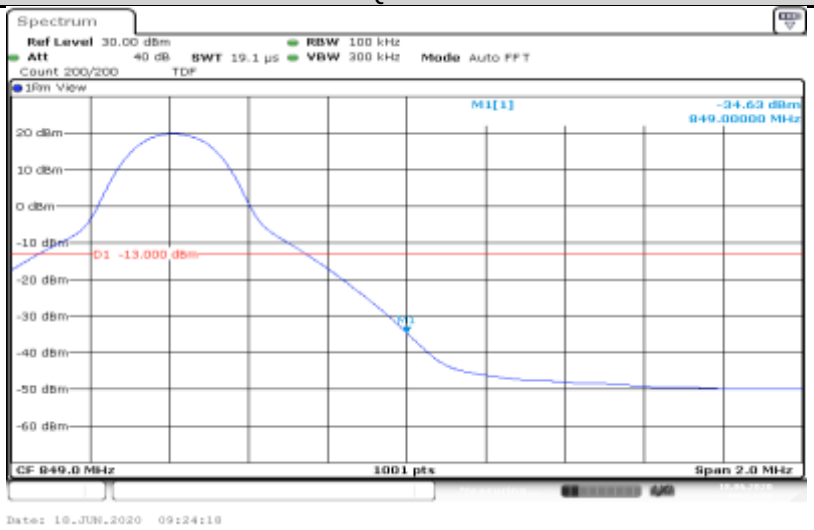


Band5-10MHz-QPSK-20450-1RB#0

Band5-10MHz-QPSK-20450-50RB#0

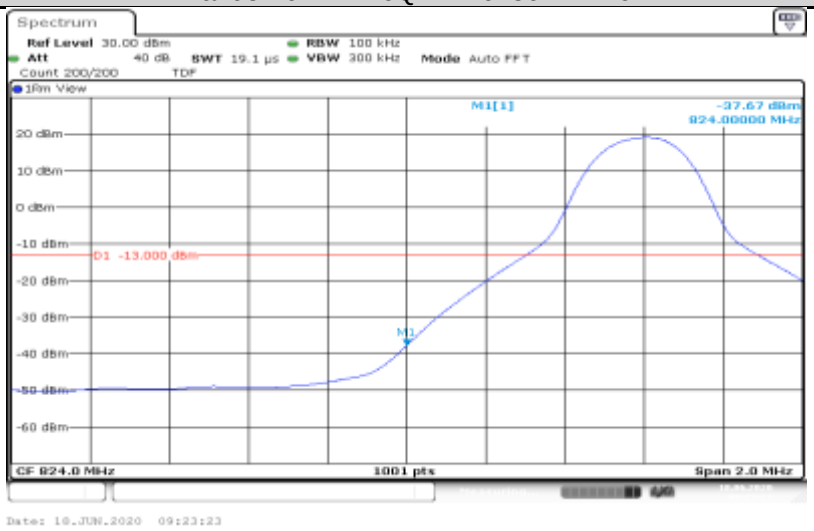


Band5-10MHz-QPSK-20600-1RB#49



Band5-10MHz-QPSK-20600-50RB#0

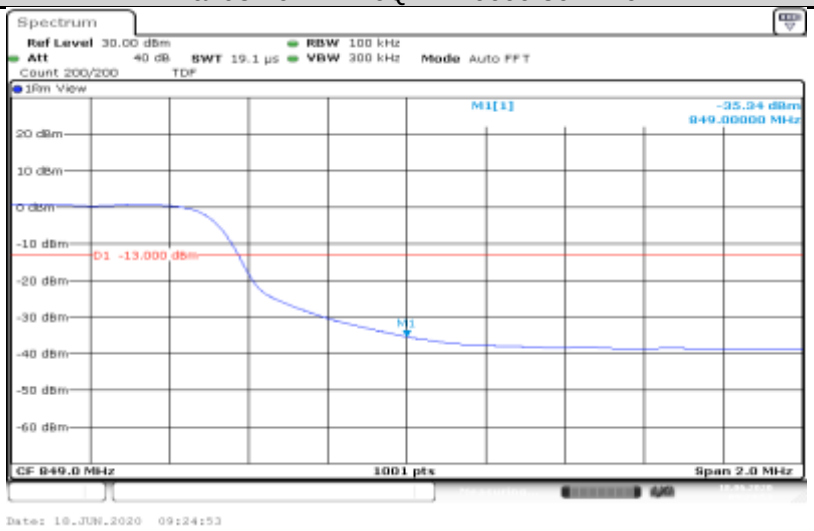
Band5-10MHz-16QAM-20450-1RB#0



Band5-10MHz-16QAM-20450-50RB#0

Band5-10MHz-16QAM-20600-1RB#49

Band5-10MHz-16QAM-20600-50RB#0



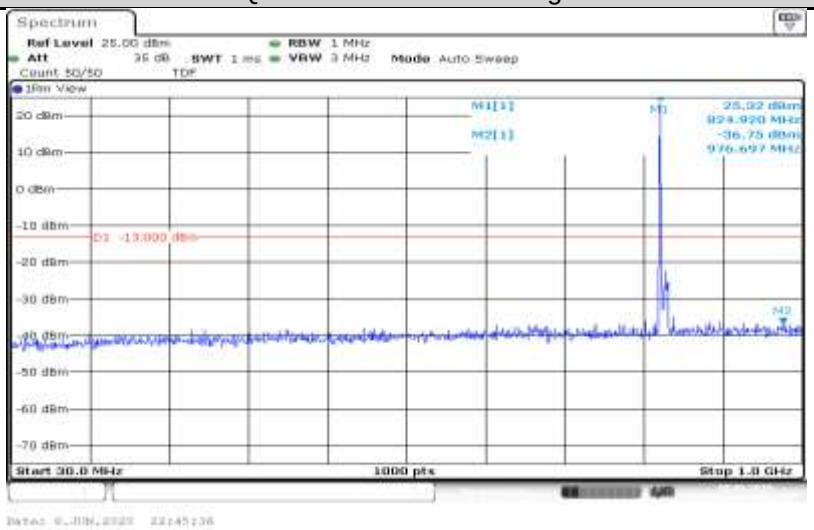
3.4 Conducted Spurious Emission

5.1 Test Result

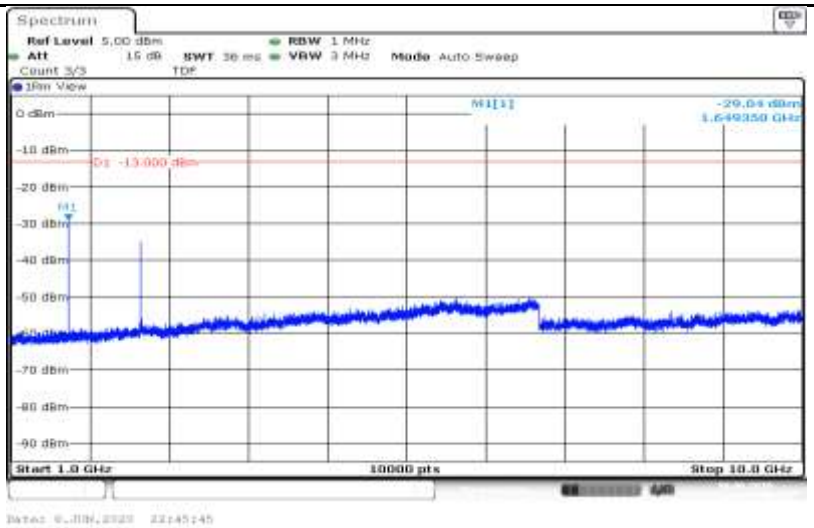
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band5	10MHz	QPSK	20450	1RB#0	Range1:30~1000MHz	-36.75	PASS
Band5	10MHz	QPSK	20450	1RB#0	Range2:1000~10000MHz	-29.04	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range1:30~1000MHz	-36.26	PASS
Band5	10MHz	QPSK	20525	1RB#0	Range2:1000~10000MHz	-30.22	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range1:30~1000MHz	-36.22	PASS
Band5	10MHz	QPSK	20600	1RB#0	Range2:1000~10000MHz	-29.2	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range1:30~1000MHz	-36.66	PASS
Band5	10MHz	16QAM	20450	1RB#0	Range2:1000~10000MHz	-27.95	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range1:30~1000MHz	-35.99	PASS
Band5	10MHz	16QAM	20525	1RB#0	Range2:1000~10000MHz	-31.27	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range1:30~1000MHz	-37.01	PASS
Band5	10MHz	16QAM	20600	1RB#0	Range2:1000~10000MHz	-28.41	PASS

5.2 Test Graphs

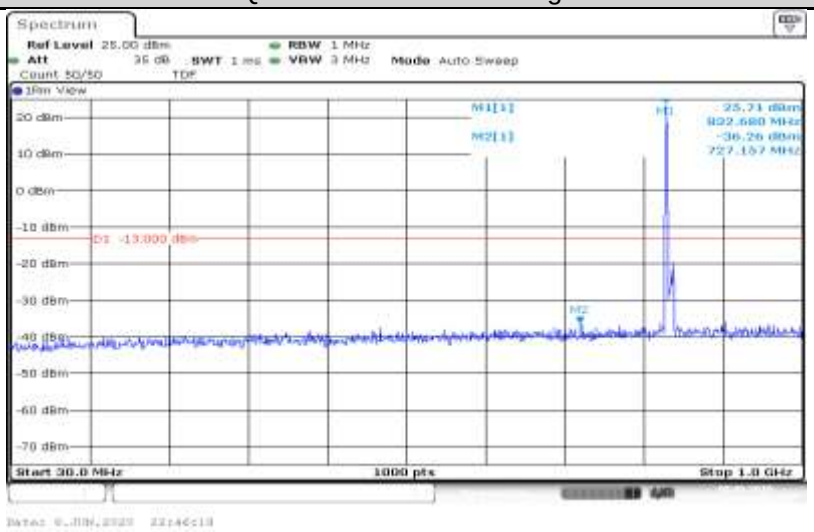
Band5-10MHz-QPSK-20450-1RB#0-Range1:30~1000MHz



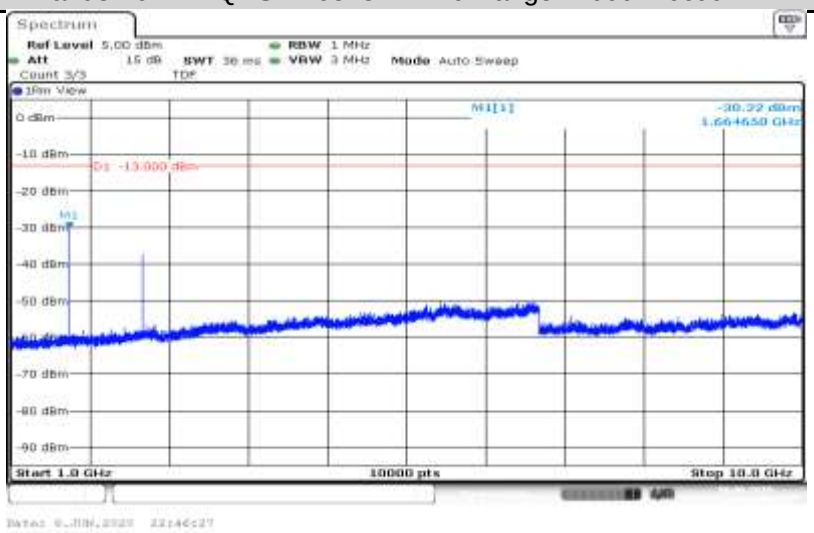
Band5-10MHz-QPSK-20450-1RB#0-Range2:1000~10000MHz



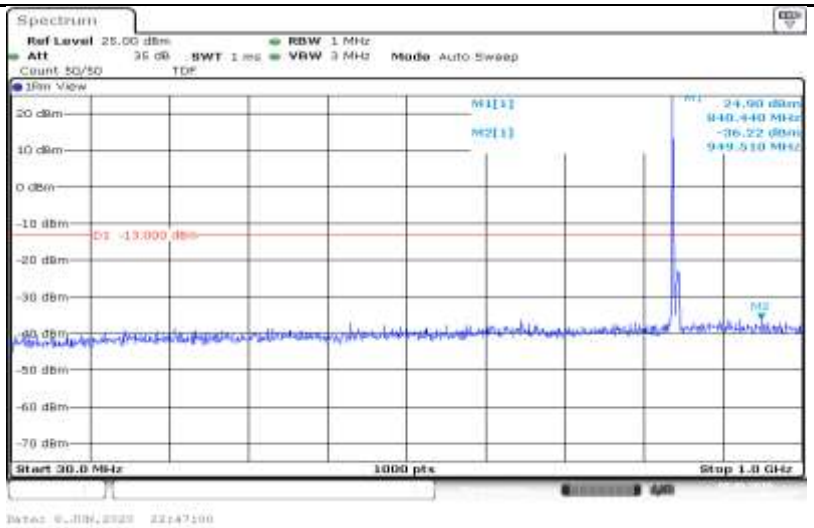
Band5-10MHz-QPSK-20525-1RB#0-Range1:30~1000MHz



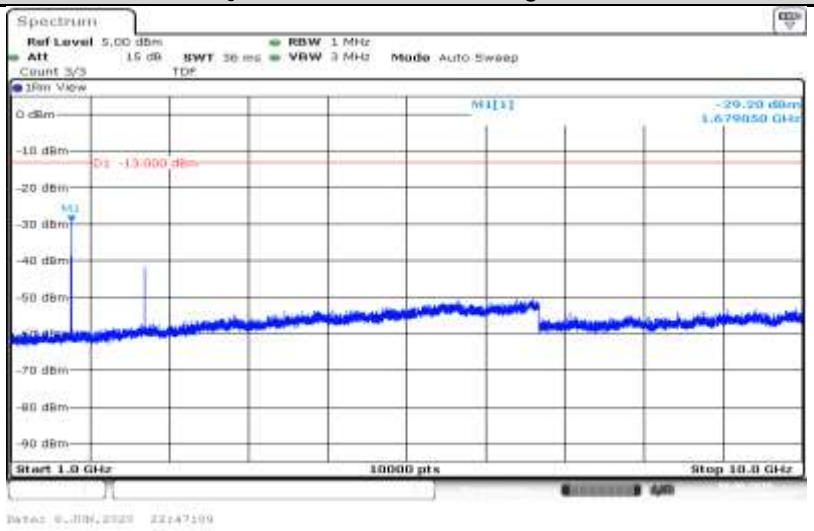
Band5-10MHz-QPSK-20525-1RB#0-Range2:1000~10000MHz



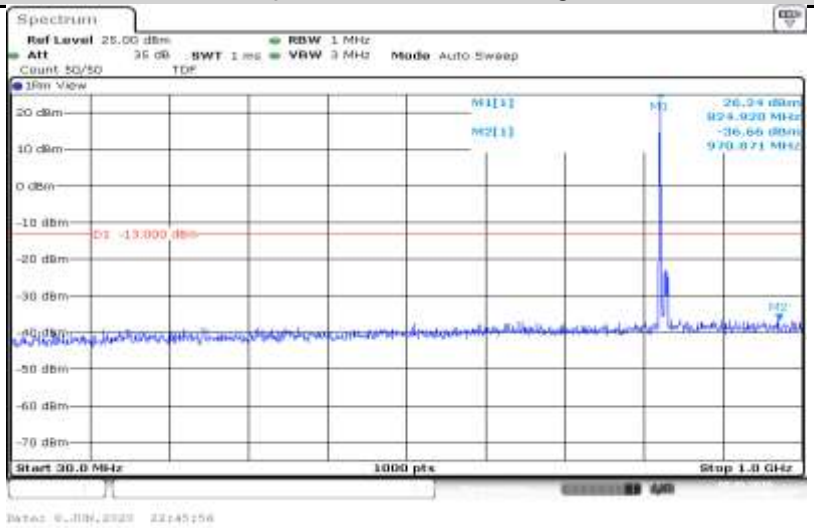
Band5-10MHz-QPSK-20600-1RB#0-Range1:30~1000MHz



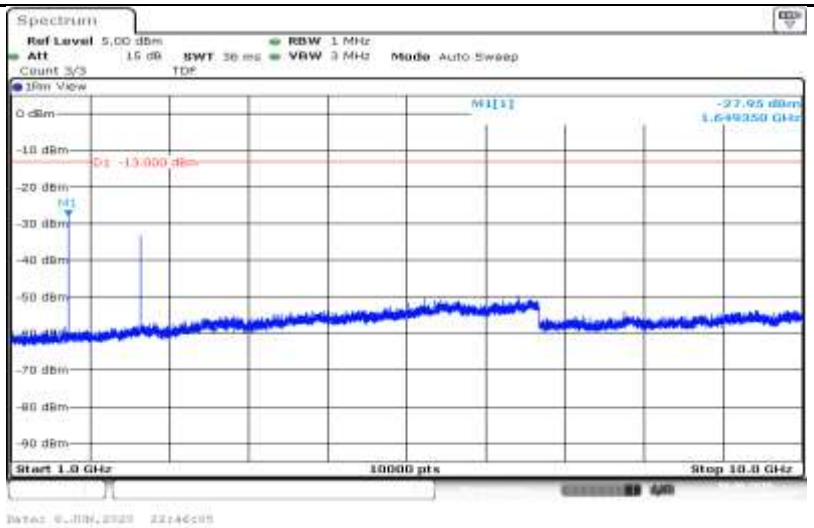
Band5-10MHz-QPSK-20600-1RB#0-Range2:1000~10000MHz



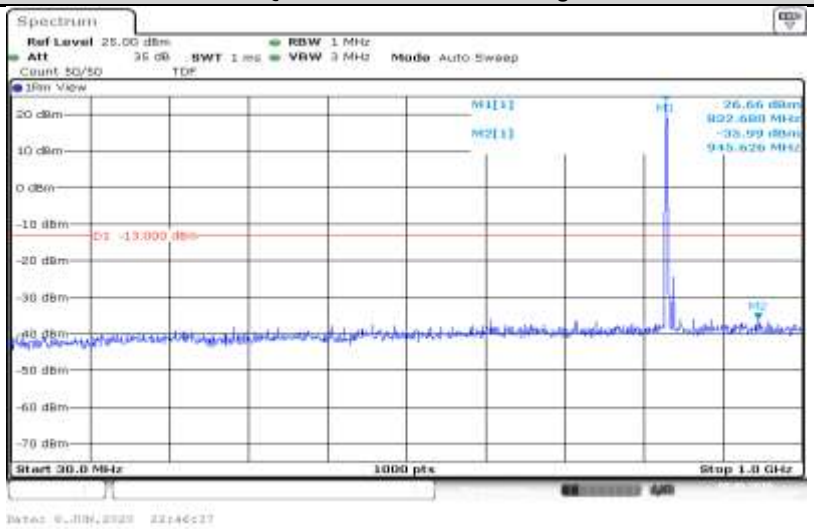
Band5-10MHz-16QAM-20450-1RB#0-Range1:30~1000MHz



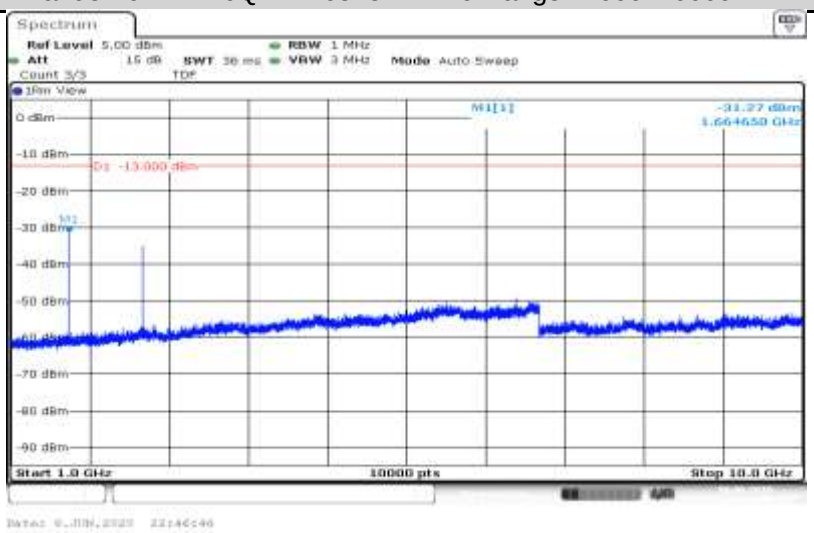
Band5-10MHz-16QAM-20450-1RB#0-Range2:1000~10000MHz



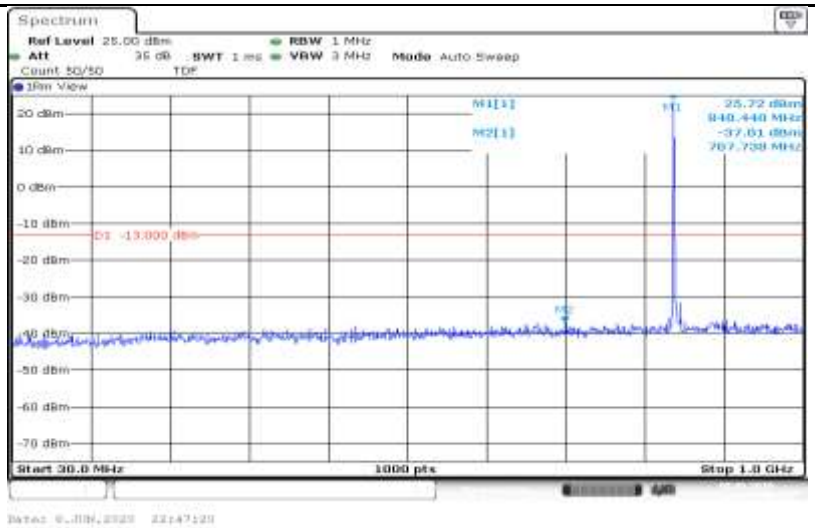
Band5-10MHz-16QAM-20525-1RB#0-Range1:30~1000MHz



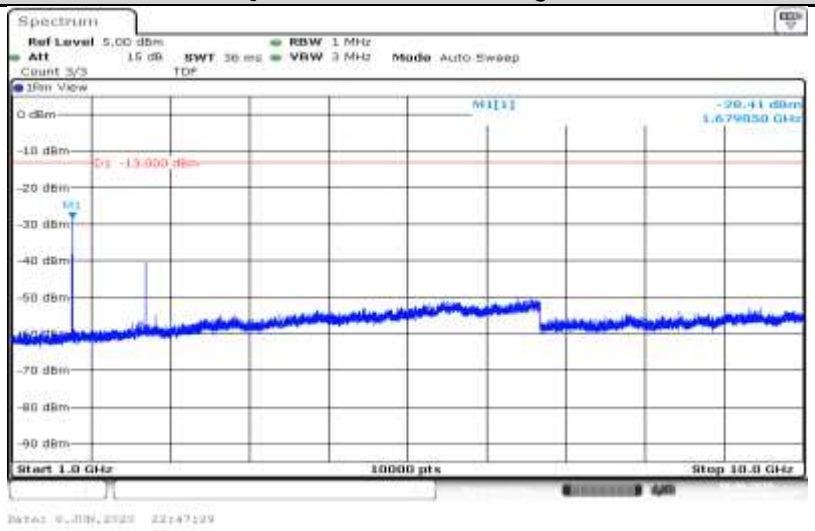
Band5-10MHz-16QAM-20525-1RB#0-Range2:1000~10000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range1:30~1000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range2:1000~10000MHz



3.5 Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-4.65	-0.005609	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-6.48	-0.007817	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-2.80	-0.003378	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-4.26	-0.005093	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-9.74	-0.011644	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-8.40	-0.010042	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-4.48	-0.005308	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	0.70	0.000829	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-5.69	-0.006742	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-8.33	-0.010048	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-4.75	-0.005730	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-1.53	-0.001846	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-2.53	-0.003025	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-8.64	-0.010329	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-6.05	-0.007233	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	2.32	0.002749	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-7.81	-0.009254	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-2.95	-0.003495	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-7.18	-0.008661	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-1.66	-0.002002	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-4.55	-0.005489	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	3.25	0.003920	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-3.43	-0.004138	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	30	-4.81	-0.005802	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	40	-4.88	-0.005887	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	50	-7.98	-0.009626	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	55	2.42	0.002919	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-6.97	-0.008332	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-1.57	-0.001877	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-3.91	-0.004674	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-6.32	-0.007555	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-9.07	-0.010843	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	30	1.76	0.002104	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	40	-3.65	-0.004363	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	50	-4.36	-0.005212	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	55	-7.25	-0.008667	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-7.20	-0.008531	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-8.05	-0.009538	±2.5	PASS

Band5	10MHz	QPSK	20600	50RB#0	NV	0	-8.74	-0.010355	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	1.83	0.002168	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-3.18	-0.003768	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	30	-4.13	-0.004893	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	40	-4.98	-0.005900	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	50	-5.26	-0.006232	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	55	-6.75	-0.007998	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-5.29	-0.006381	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-7.74	-0.009337	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-2.52	-0.003040	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-5.24	-0.006321	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-7.35	-0.008866	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	30	-8.64	-0.010422	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	40	-2.93	-0.003534	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	50	-4.86	-0.005862	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	55	-7.00	-0.008444	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-7.21	-0.008619	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-8.13	-0.009719	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	1.23	0.001470	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-1.89	-0.002259	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-4.52	-0.005403	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	30	-8.20	-0.009803	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	40	-7.88	-0.009420	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	50	-10.03	-0.011990	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	55	-9.88	-0.011811	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-4.51	-0.005344	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-6.32	-0.007488	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-6.51	-0.007713	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-7.11	-0.008424	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-7.50	-0.008886	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	30	2.90	0.003436	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	40	1.72	0.002038	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	50	-2.83	-0.003353	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	55	-3.50	-0.004147	±2.5	PASS

Appendix F: Test Results of LTE Band 7 operation

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	21.72	PASS
Band7	5MHz	QPSK	20775	1RB#12	21.79	PASS
Band7	5MHz	QPSK	20775	1RB#24	21.67	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.61	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.63	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.59	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.55	PASS
Band7	5MHz	QPSK	21100	1RB#24	21.72	PASS
Band7	5MHz	QPSK	21100	1RB#12	21.78	PASS
Band7	5MHz	QPSK	21100	1RB#0	21.70	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.64	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.64	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.64	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.62	PASS
Band7	5MHz	QPSK	21425	1RB#24	22.12	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.09	PASS
Band7	5MHz	QPSK	21425	1RB#0	21.91	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.93	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.94	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.84	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.96	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.62	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.64	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.69	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.65	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.65	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.64	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.57	PASS
Band7	5MHz	16QAM	21100	1RB#24	20.66	PASS
Band7	5MHz	16QAM	21100	1RB#12	20.68	PASS
Band7	5MHz	16QAM	21100	1RB#0	20.59	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.69	PASS

Band7	5MHz	16QAM	21100	12RB#13	19.71	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.69	PASS
Band7	5MHz	16QAM	21100	25RB#0	19.74	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.98	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.93	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.89	PASS
Band7	5MHz	16QAM	21425	12RB#0	20.01	PASS
Band7	5MHz	16QAM	21425	12RB#6	20.00	PASS
Band7	5MHz	16QAM	21425	12RB#13	20.02	PASS
Band7	5MHz	16QAM	21425	25RB#0	20.02	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.74	PASS
Band7	10MHz	QPSK	20800	1RB#24	21.78	PASS
Band7	10MHz	QPSK	20800	1RB#49	21.80	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.66	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.60	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.76	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.66	PASS
Band7	10MHz	QPSK	21100	1RB#49	21.73	PASS
Band7	10MHz	QPSK	21100	1RB#24	21.66	PASS
Band7	10MHz	QPSK	21100	1RB#0	21.62	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.63	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.71	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.63	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.64	PASS
Band7	10MHz	QPSK	21400	1RB#24	21.87	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.14	PASS
Band7	10MHz	QPSK	21400	1RB#0	21.73	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.86	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.86	PASS
Band7	10MHz	QPSK	21400	25RB#25	21.01	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.85	PASS
Band7	10MHz	16QAM	20800	1RB#0	20.47	PASS
Band7	10MHz	16QAM	20800	1RB#24	20.43	PASS
Band7	10MHz	16QAM	20800	1RB#49	20.60	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.68	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.69	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.77	PASS

Band7	10MHz	16QAM	20800	50RB#0	19.76	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.55	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.49	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.45	PASS
Band7	10MHz	16QAM	21100	25RB#25	19.77	PASS
Band7	10MHz	16QAM	21100	25RB#0	19.73	PASS
Band7	10MHz	16QAM	21100	25RB#12	19.73	PASS
Band7	10MHz	16QAM	21100	50RB#0	19.74	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.01	PASS
Band7	10MHz	16QAM	21400	1RB#49	20.99	PASS
Band7	10MHz	16QAM	21400	1RB#0	20.85	PASS
Band7	10MHz	16QAM	21400	25RB#0	19.92	PASS
Band7	10MHz	16QAM	21400	25RB#12	19.91	PASS
Band7	10MHz	16QAM	21400	25RB#25	20.01	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.93	PASS
Band7	15MHz	QPSK	20825	1RB#38	21.54	PASS
Band7	15MHz	QPSK	20825	1RB#0	21.67	PASS
Band7	15MHz	QPSK	20825	1RB#74	21.62	PASS
Band7	15MHz	QPSK	20825	36RB#0	20.69	PASS
Band7	15MHz	QPSK	20825	36RB#18	20.71	PASS
Band7	15MHz	QPSK	20825	36RB#39	20.68	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.73	PASS
Band7	15MHz	QPSK	21100	1RB#0	21.64	PASS
Band7	15MHz	QPSK	21100	1RB#74	21.80	PASS
Band7	15MHz	QPSK	21100	1RB#38	21.67	PASS
Band7	15MHz	QPSK	21100	36RB#18	20.63	PASS
Band7	15MHz	QPSK	21100	36RB#0	20.62	PASS
Band7	15MHz	QPSK	21100	36RB#39	20.68	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.65	PASS
Band7	15MHz	QPSK	21375	1RB#74	22.08	PASS
Band7	15MHz	QPSK	21375	1RB#38	21.91	PASS
Band7	15MHz	QPSK	21375	1RB#0	21.76	PASS
Band7	15MHz	QPSK	21375	36RB#0	20.83	PASS
Band7	15MHz	QPSK	21375	36RB#18	20.86	PASS
Band7	15MHz	QPSK	21375	36RB#39	20.97	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.86	PASS
Band7	15MHz	16QAM	20825	1RB#74	20.84	PASS

Band7	15MHz	16QAM	20825	1RB#38	20.66	PASS
Band7	15MHz	16QAM	20825	1RB#0	20.71	PASS
Band7	15MHz	16QAM	20825	36RB#39	19.81	PASS
Band7	15MHz	16QAM	20825	36RB#18	19.79	PASS
Band7	15MHz	16QAM	20825	36RB#0	19.78	PASS
Band7	15MHz	16QAM	20825	75RB#0	19.77	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.56	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.50	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.49	PASS
Band7	15MHz	16QAM	21100	36RB#18	19.63	PASS
Band7	15MHz	16QAM	21100	36RB#39	19.70	PASS
Band7	15MHz	16QAM	21100	36RB#0	19.70	PASS
Band7	15MHz	16QAM	21100	75RB#0	19.72	PASS
Band7	15MHz	16QAM	21375	1RB#0	20.86	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.02	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.03	PASS
Band7	15MHz	16QAM	21375	36RB#0	19.94	PASS
Band7	15MHz	16QAM	21375	36RB#18	19.93	PASS
Band7	15MHz	16QAM	21375	36RB#39	20.07	PASS
Band7	15MHz	16QAM	21375	75RB#0	19.93	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.63	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.71	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.75	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.70	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.68	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.69	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.68	PASS
Band7	20MHz	QPSK	21100	1RB#99	21.83	PASS
Band7	20MHz	QPSK	21100	1RB#49	21.72	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.55	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.64	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.70	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.66	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.70	PASS
Band7	20MHz	QPSK	21350	1RB#99	22.03	PASS
Band7	20MHz	QPSK	21350	1RB#49	21.76	PASS
Band7	20MHz	QPSK	21350	1RB#0	21.71	PASS

Band7	20MHz	QPSK	21350	50RB#50	20.91	PASS
Band7	20MHz	QPSK	21350	50RB#25	20.86	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.87	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.89	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.48	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.62	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.68	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.75	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.75	PASS
Band7	20MHz	16QAM	20850	50RB#50	19.82	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.76	PASS
Band7	20MHz	16QAM	21100	1RB#0	20.76	PASS
Band7	20MHz	16QAM	21100	1RB#99	20.99	PASS
Band7	20MHz	16QAM	21100	1RB#49	20.82	PASS
Band7	20MHz	16QAM	21100	50RB#25	19.75	PASS
Band7	20MHz	16QAM	21100	50RB#50	19.79	PASS
Band7	20MHz	16QAM	21100	50RB#0	19.74	PASS
Band7	20MHz	16QAM	21100	100RB#0	19.68	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.71	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.85	PASS
Band7	20MHz	16QAM	21350	1RB#0	20.68	PASS
Band7	20MHz	16QAM	21350	50RB#0	19.96	PASS
Band7	20MHz	16QAM	21350	50RB#25	19.96	PASS
Band7	20MHz	16QAM	21350	50RB#50	20.07	PASS
Band7	20MHz	16QAM	21350	100RB#0	20.00	PASS

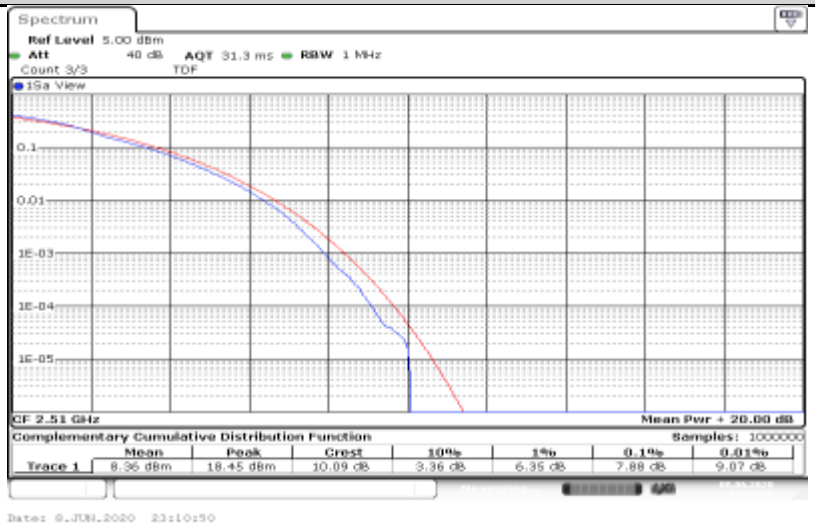
2. Peak-to-Average Ratio (CCDF)

2.1 Test Result

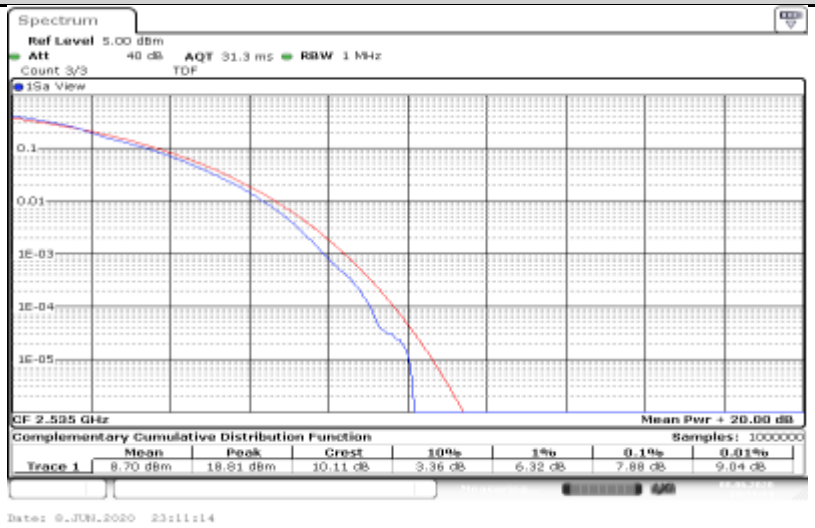
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	20MHz	QPSK	20850	50RB#0	7.88	13	PASS
Band7	20MHz	QPSK	21100	50RB#0	7.88	13	PASS
Band7	20MHz	QPSK	21350	50RB#0	7.86	13	PASS
Band7	20MHz	16QAM	20850	50RB#0	8.03	13	PASS
Band7	20MHz	16QAM	21100	50RB#0	8.00	13	PASS
Band7	20MHz	16QAM	21350	50RB#0	8.00	13	PASS

2.2 Test Graphs

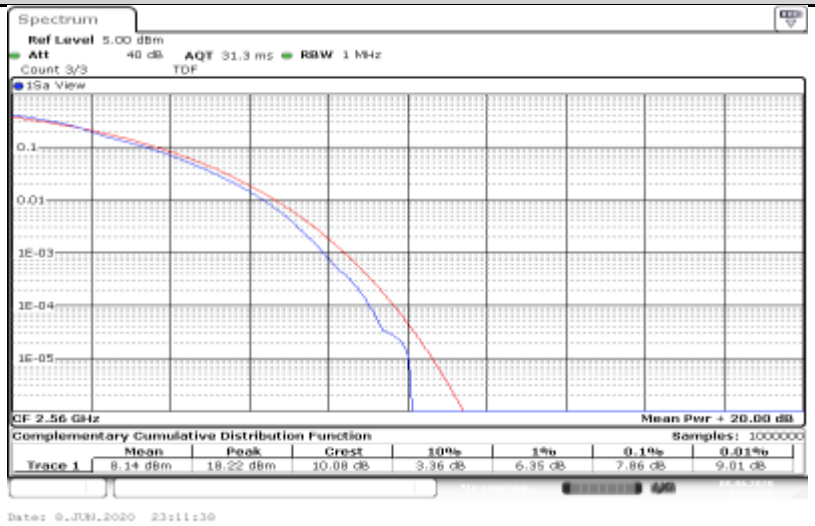
Band7-20MHz-QPSK-20850-50RB#0



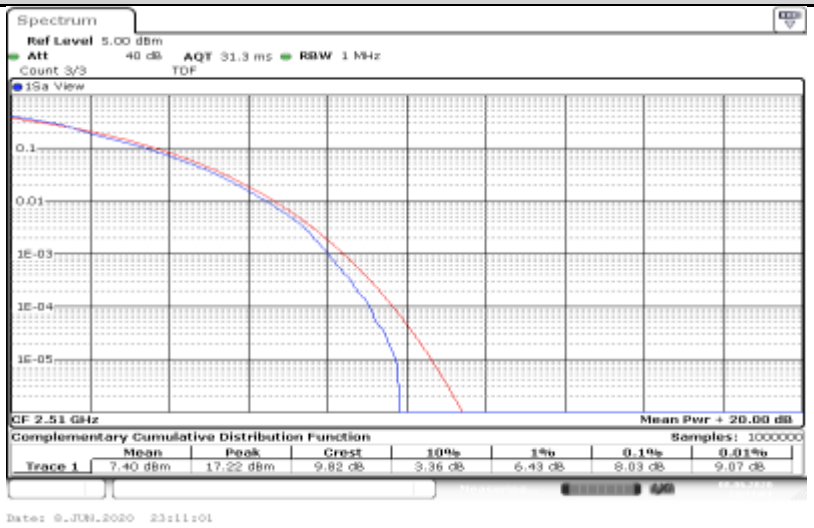
Band7-20MHz-QPSK-21100-50RB#0



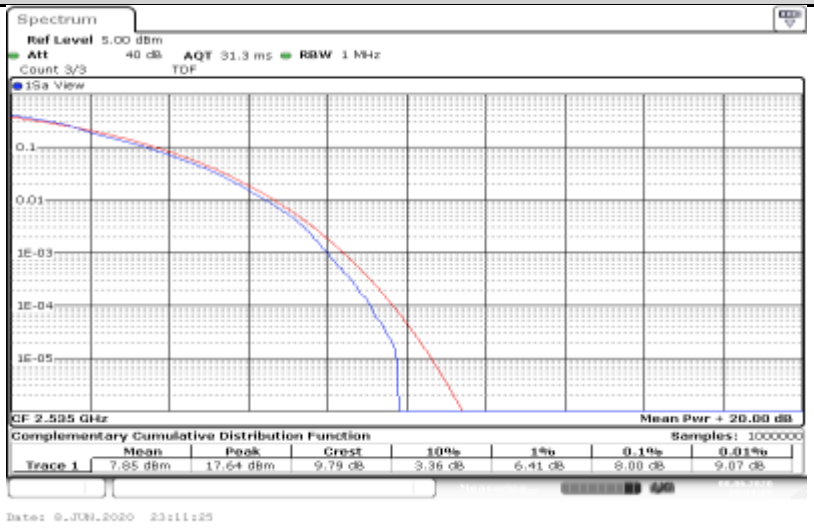
Band7-20MHz-QPSK-21350-50RB#0



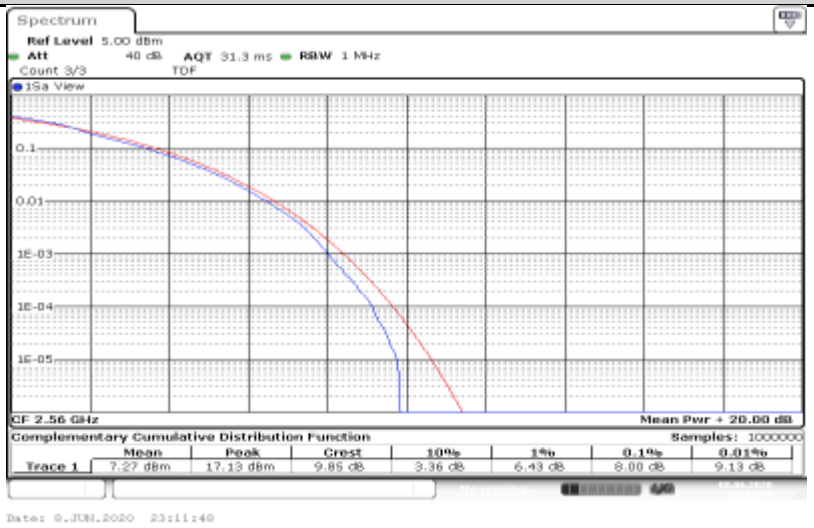
Band7-20MHz-16QAM-20850-50RB#0



Band7-20MHz-16QAM-21100-50RB#0



Band7-20MHz-16QAM-21350-50RB#0



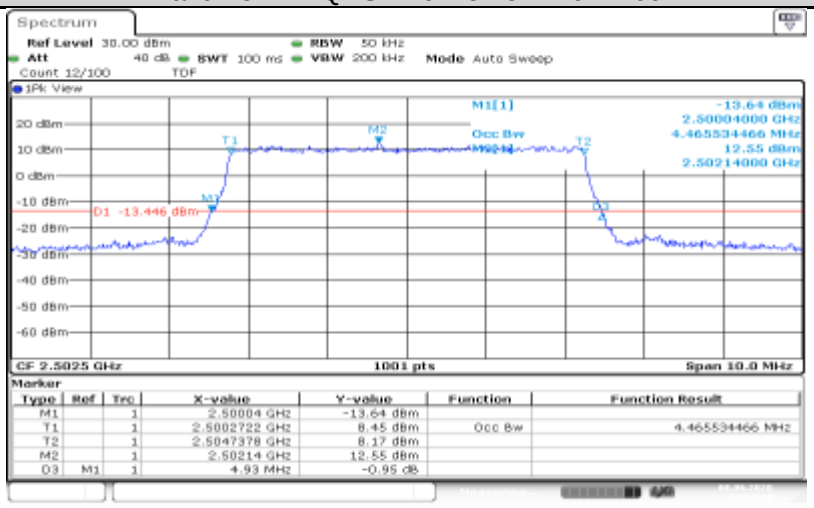
3. 26dB Bandwidth and Occupied Bandwidth

3.1 Test Result

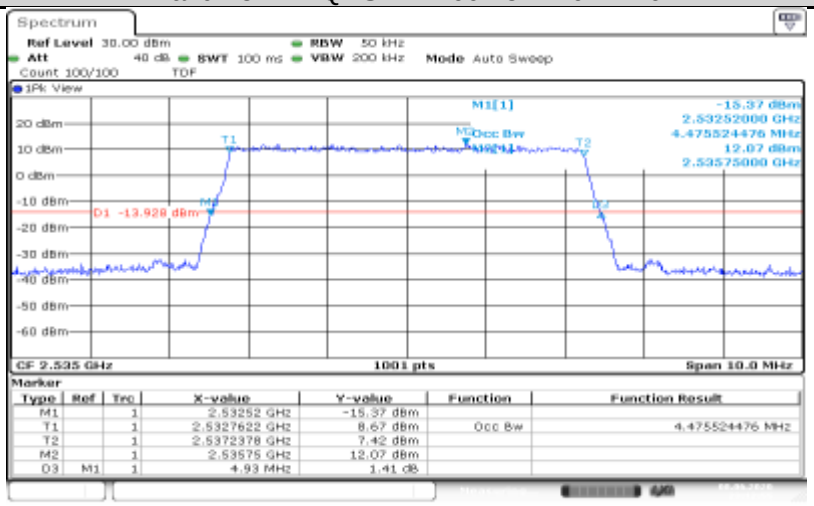
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.466	4.930	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.476	4.930	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.476	4.920	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.486	4.930	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.476	4.870	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.476	4.870	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.918	9.800	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.952	9.733	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.952	9.767	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.918	9.667	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.952	9.700	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.952	9.667	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.478	14.800	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.428	14.850	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.527	14.900	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.478	14.850	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.428	14.750	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.478	14.800	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.903	19.533	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.903	19.467	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.97	19.467	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.903	19.467	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.903	19.467	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.903	19.467	PASS

3.2 Test Graphs

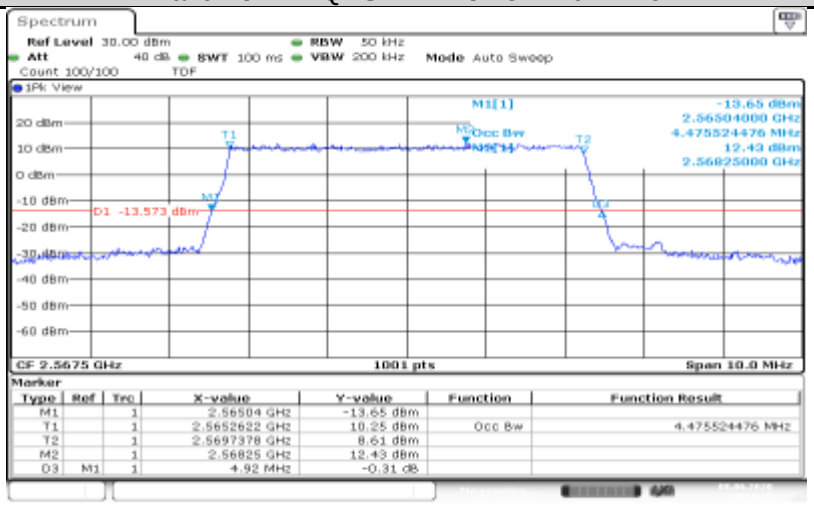
Band7-5MHz-QPSK-20775-25RB#0-4.466



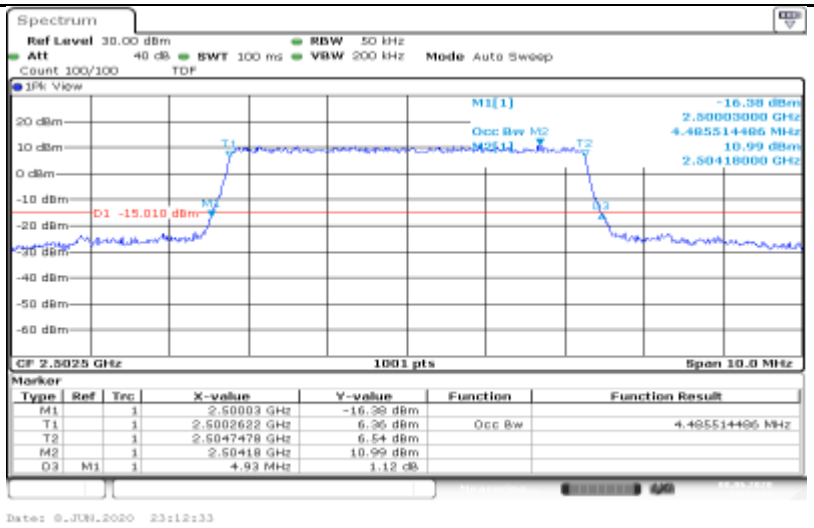
Band7-5MHz-QPSK-21100-25RB#0-4.476



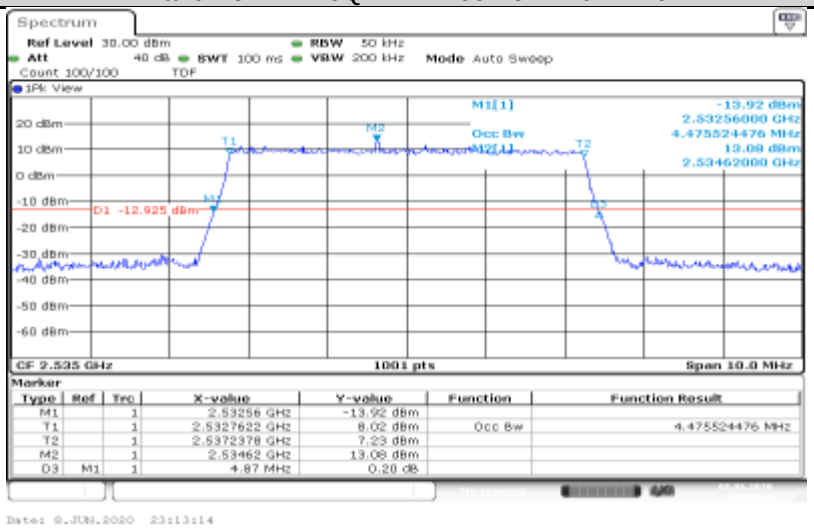
Band7-5MHz-QPSK-21425-25RB#0-4.476



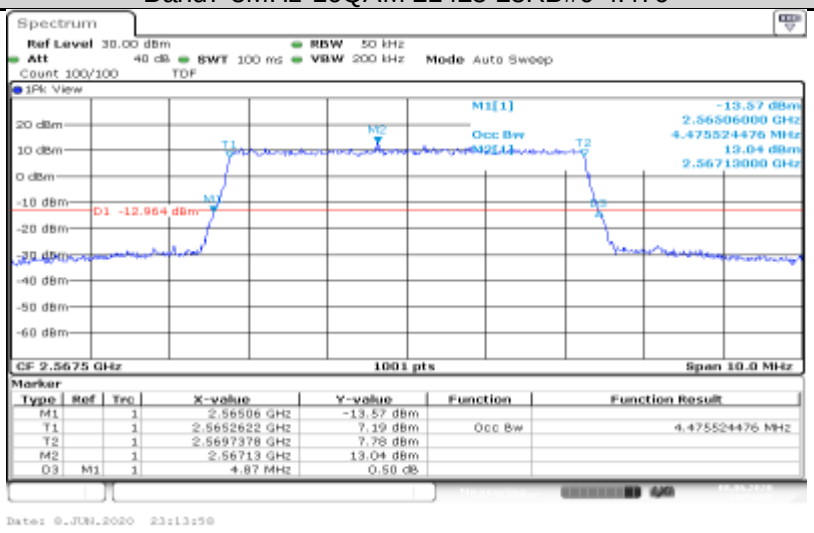
Band7-5MHz-16QAM-20775-25RB#0-4.486



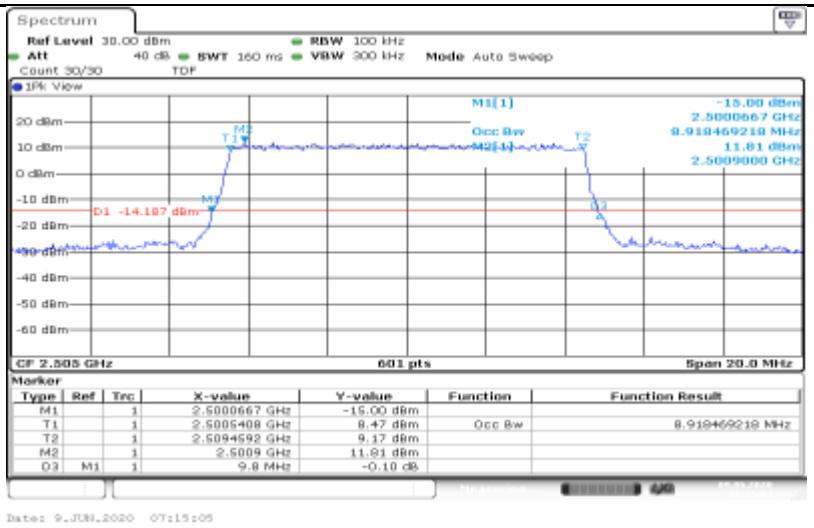
Band7-5MHz-16QAM-21100-25RB#0-4.476



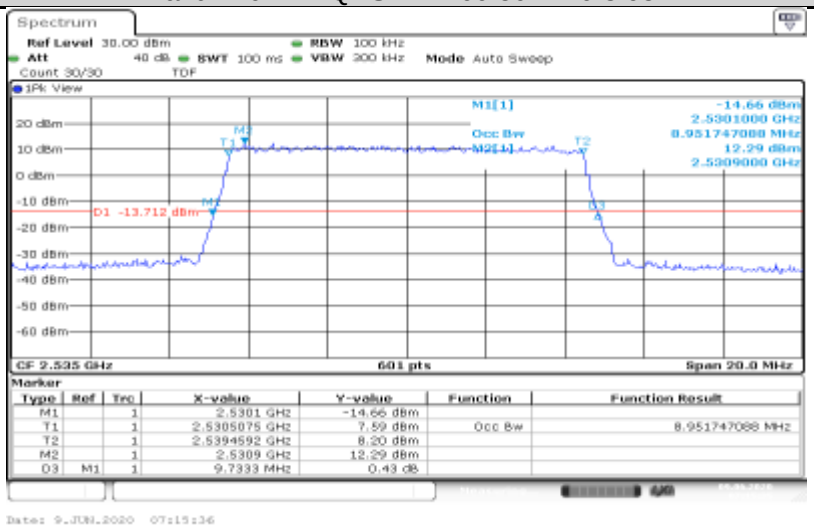
Band7-5MHz-16QAM-21425-25RB#0-4.476



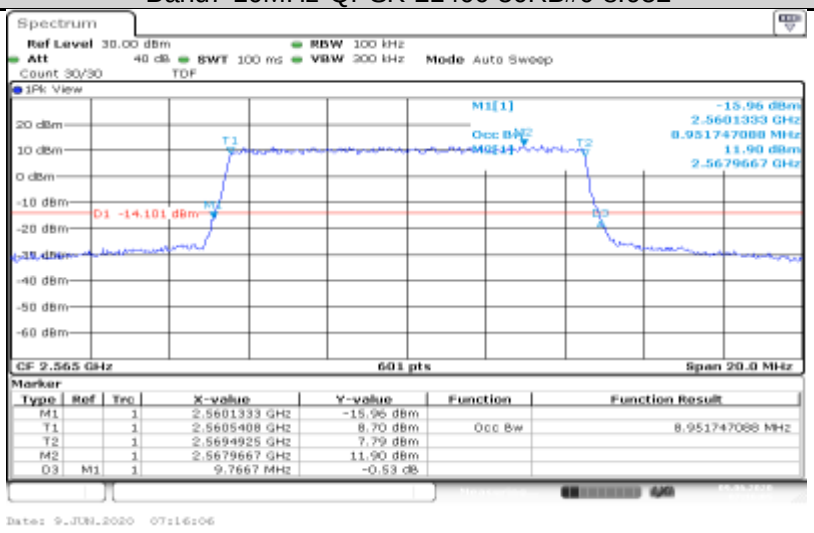
Band7-10MHz-QPSK-20800-50RB#0-8.918



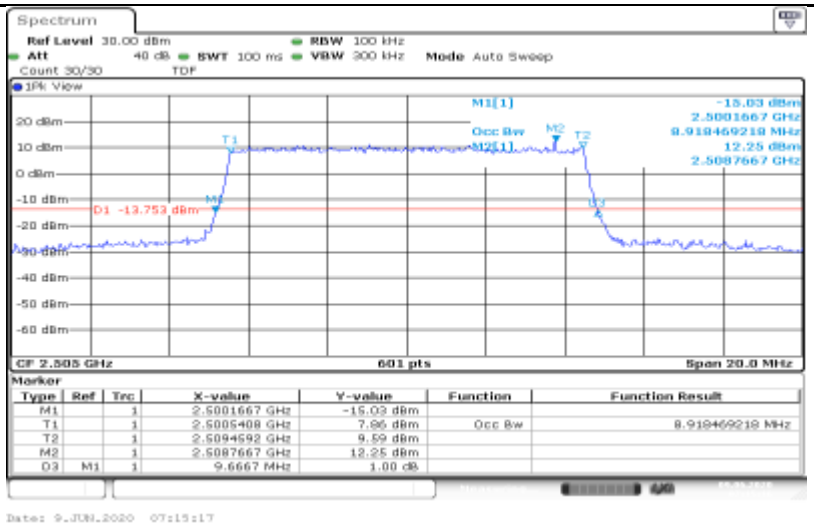
Band7-10MHz-QPSK-21100-50RB#0-8.952



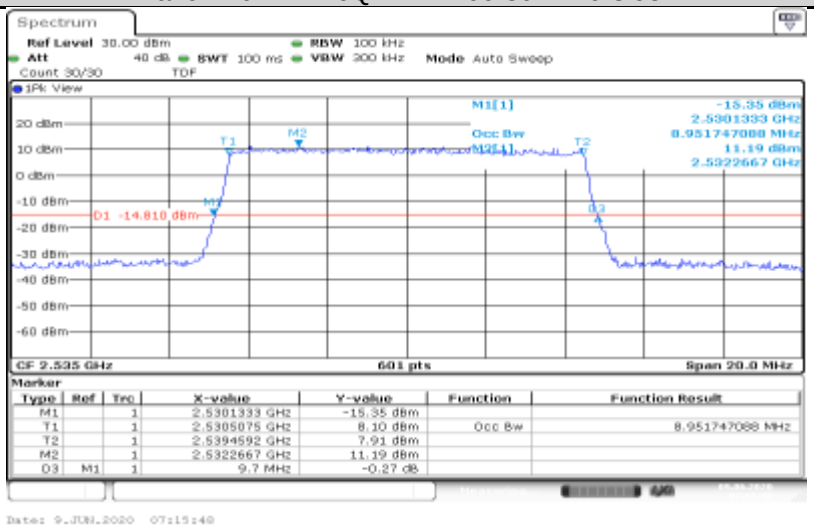
Band7-10MHz-QPSK-21400-50RB#0-8.952



Band7-10MHz-16QAM-20800-50RB#0-8.918



Band7-10MHz-16QAM-21100-50RB#0-8.952



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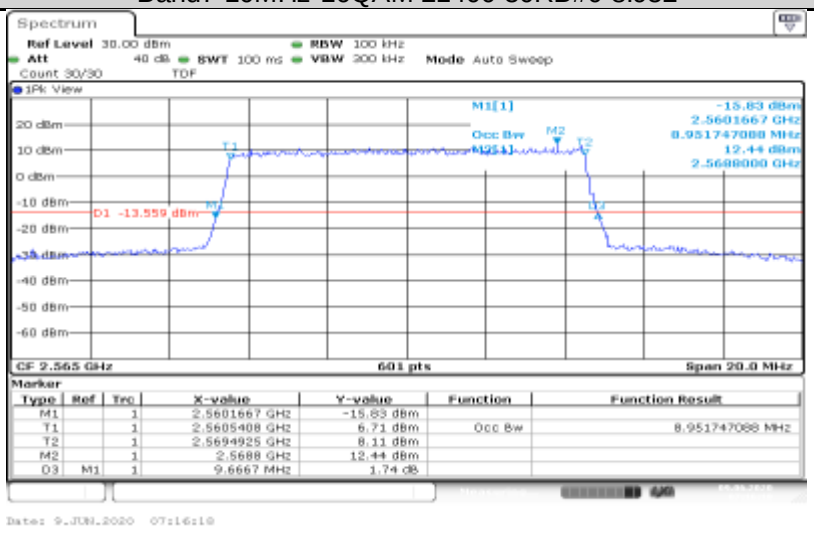
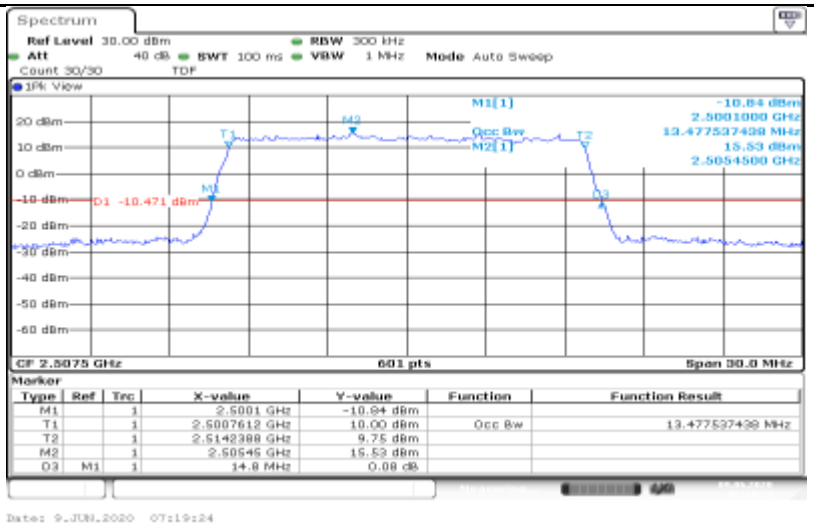
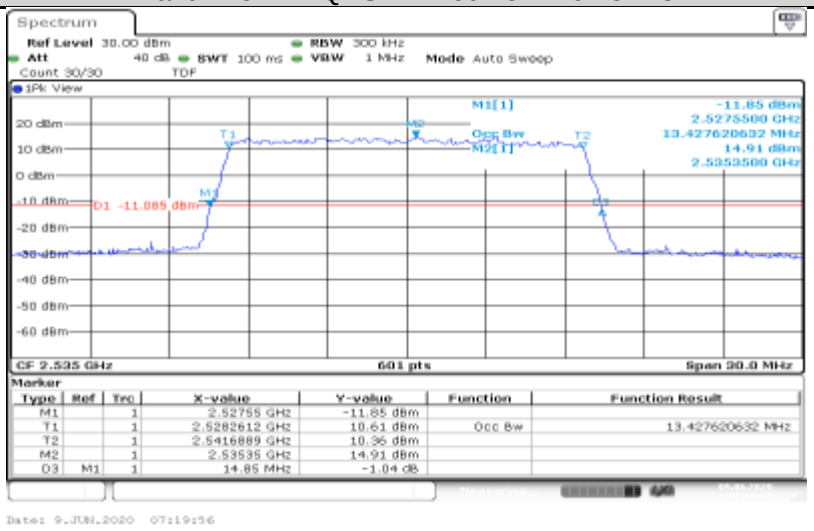


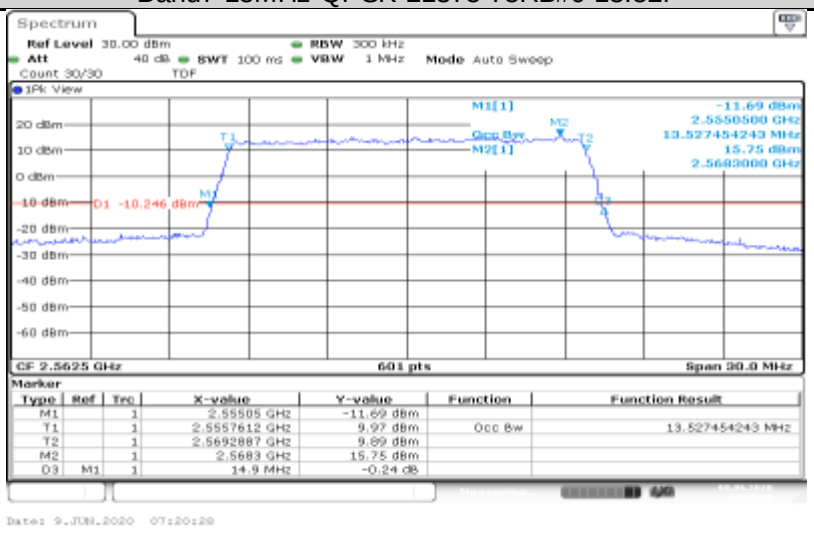
Band7-15MHz-QPSK-20825-75RB#0-13.478



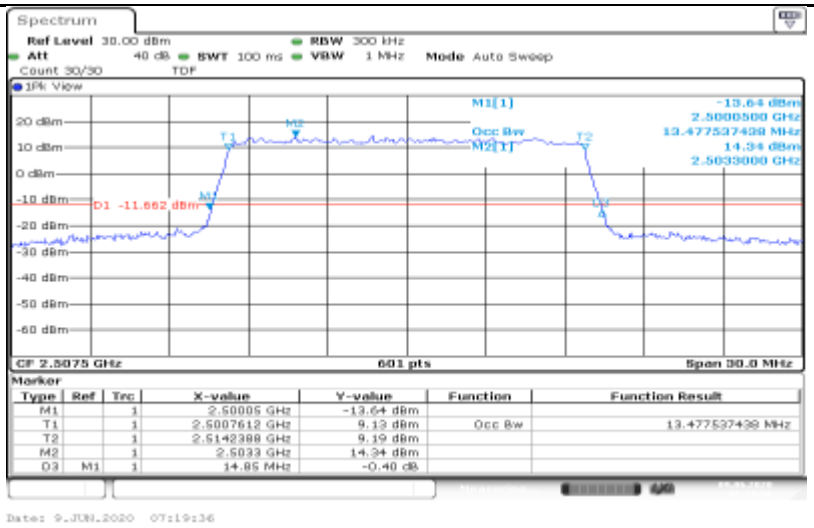
Band7-15MHz-QPSK-21100-75RB#0-13.428



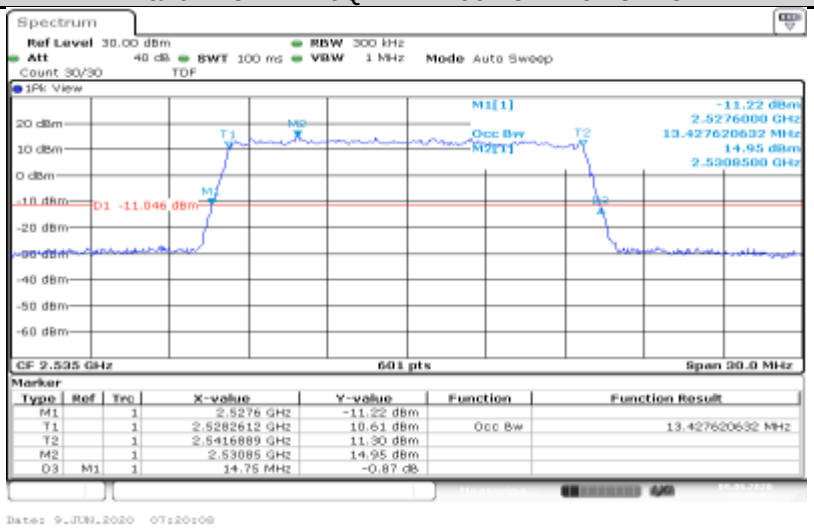
Band7-15MHz-QPSK-21375-75RB#0-13.527



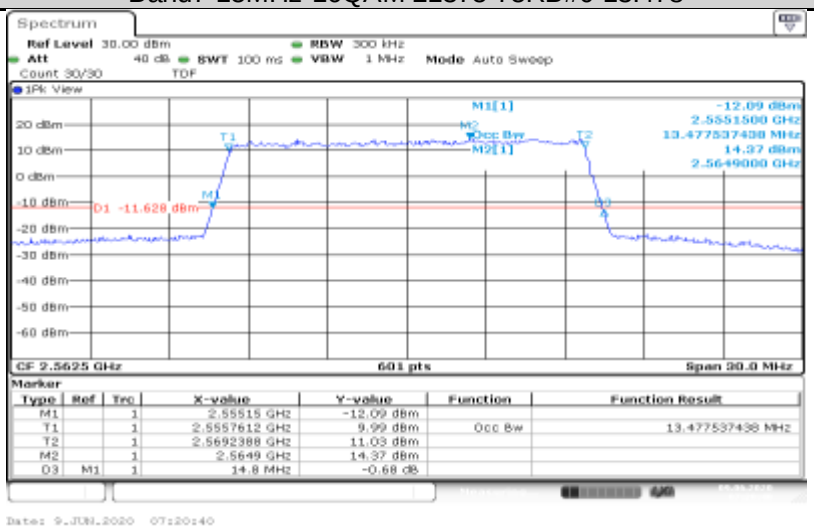
Band7-15MHz-16QAM-20825-75RB#0-13.478



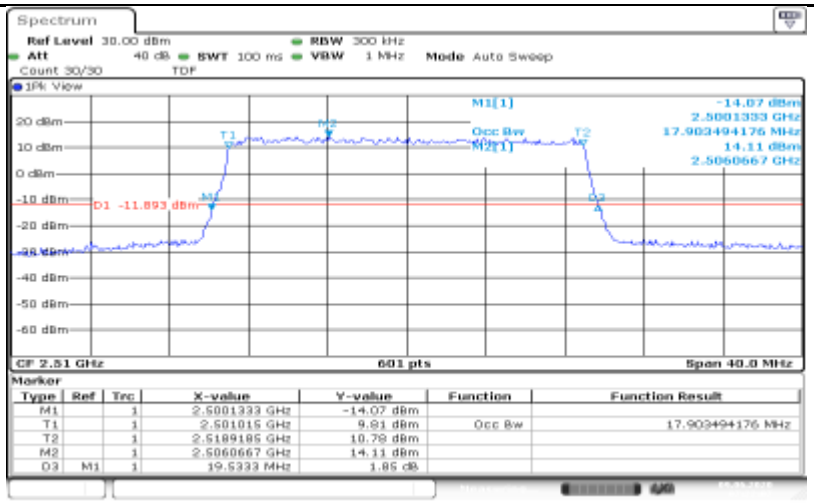
Band7-15MHz-16QAM-21100-75RB#0-13.428



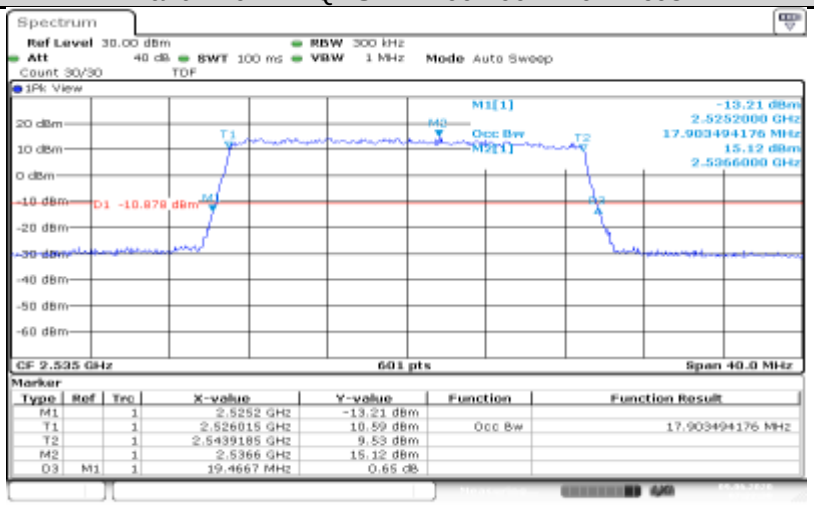
Band7-15MHz-16QAM-21375-75RB#0-13.478



Band7-20MHz-QPSK-20850-100RB#0-17.903



Band7-20MHz-QPSK-21100-100RB#0-17.903



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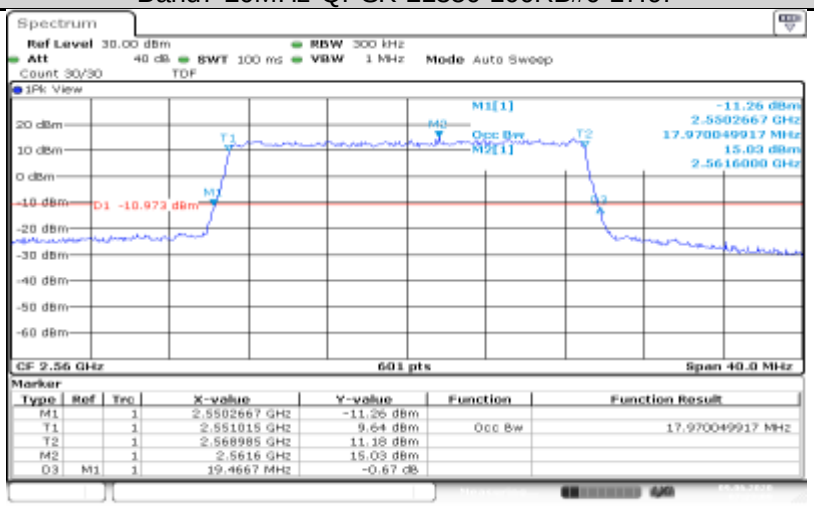

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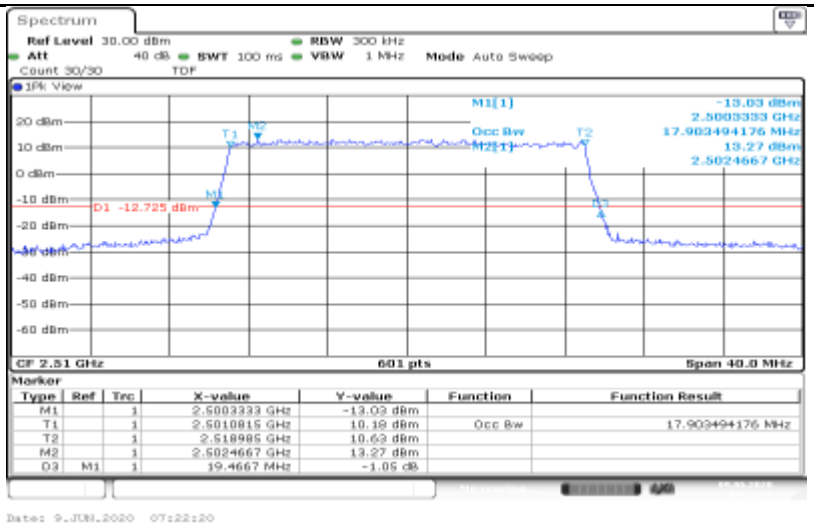

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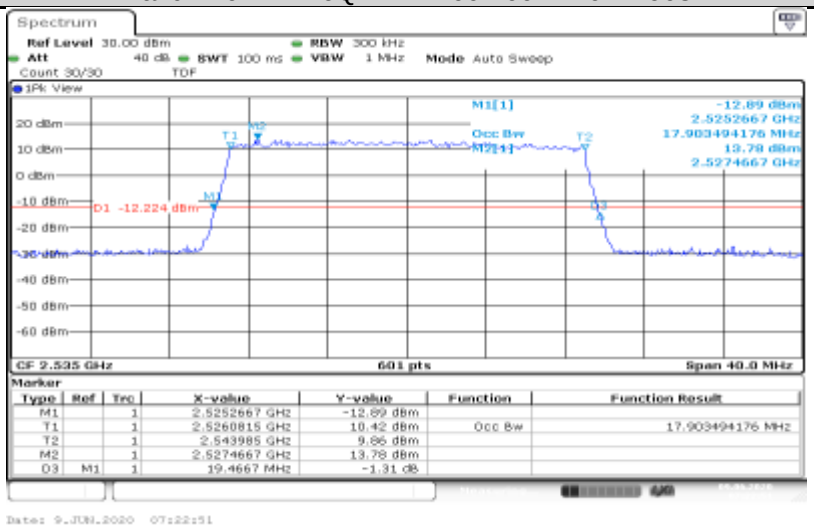

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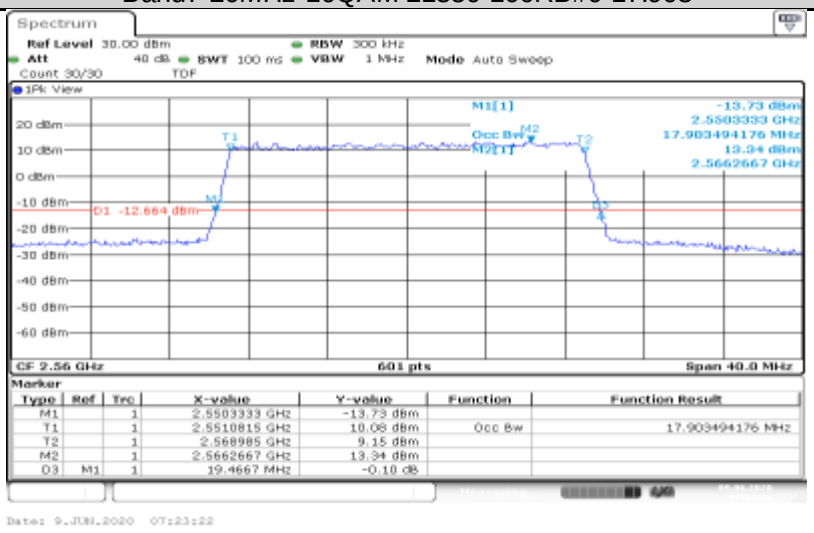


4. Band Edge

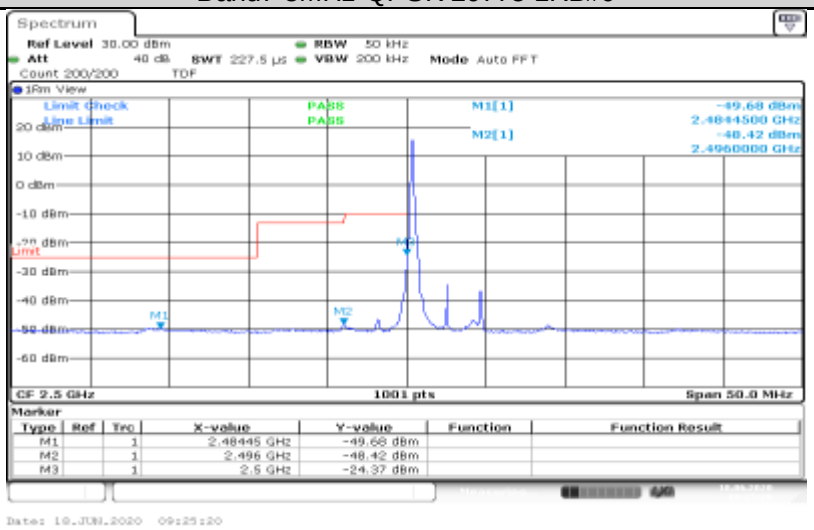
4.1 Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-49.68,-48.42,-24.37	PASS
Band7	5MHz	QPSK	20775	25RB#0	-49.85,-42.44,-28.75	PASS
Band7	5MHz	QPSK	21425	1RB#24	-50.44,-50.35,-23.65	PASS
Band7	5MHz	QPSK	21425	25RB#0	-49.04,-47.95,-30.82	PASS
Band7	5MHz	16QAM	20775	1RB#0	-49.77,-49.10,-26.06	PASS
Band7	5MHz	16QAM	20775	25RB#0	-49.65,-44.40,-31.80	PASS
Band7	5MHz	16QAM	21425	1RB#24	-50.61,-50.32,-25.61	PASS
Band7	5MHz	16QAM	21425	25RB#0	-48.79,-47.87,-32.88	PASS
Band7	10MHz	QPSK	20800	1RB#0	-46.58,-45.70,-33.15	PASS
Band7	10MHz	QPSK	20800	50RB#0	-45.14,-37.15,-29.33	PASS
Band7	10MHz	QPSK	21400	1RB#49	-47.49,-46.97,-33.44	PASS
Band7	10MHz	QPSK	21400	50RB#0	-46.39,-42.06,-33.43	PASS
Band7	10MHz	16QAM	20800	1RB#0	-46.70,-46.45,-35.72	PASS
Band7	10MHz	16QAM	20800	50RB#0	-45.84,-38.38,-32.88	PASS
Band7	10MHz	16QAM	21400	1RB#49	-47.47,-47.04,-34.00	PASS
Band7	10MHz	16QAM	21400	50RB#0	-46.43,-42.38,-35.79	PASS
Band7	15MHz	QPSK	20825	1RB#0	-41.86,-40.58,-26.51	PASS
Band7	15MHz	QPSK	20825	75RB#0	-37.89,-33.77,-26.27	PASS
Band7	15MHz	QPSK	21375	1RB#74	-42.79,-40.26,-26.61	PASS
Band7	15MHz	QPSK	21375	75RB#0	-42.63,-36.97,-28.27	PASS
Band7	15MHz	16QAM	20825	1RB#0	-42.21,-41.20,-25.96	PASS
Band7	15MHz	16QAM	20825	75RB#0	-38.67,-34.97,-30.28	PASS
Band7	15MHz	16QAM	21375	1RB#74	-42.93,-40.88,-27.70	PASS
Band7	15MHz	16QAM	21375	75RB#0	-42.82,-36.80,-31.82	PASS
Band7	20MHz	QPSK	20850	1RB#0	-41.94,-40.67,-30.40	PASS
Band7	20MHz	QPSK	20850	100RB#0	-38.99,-37.21,-	PASS

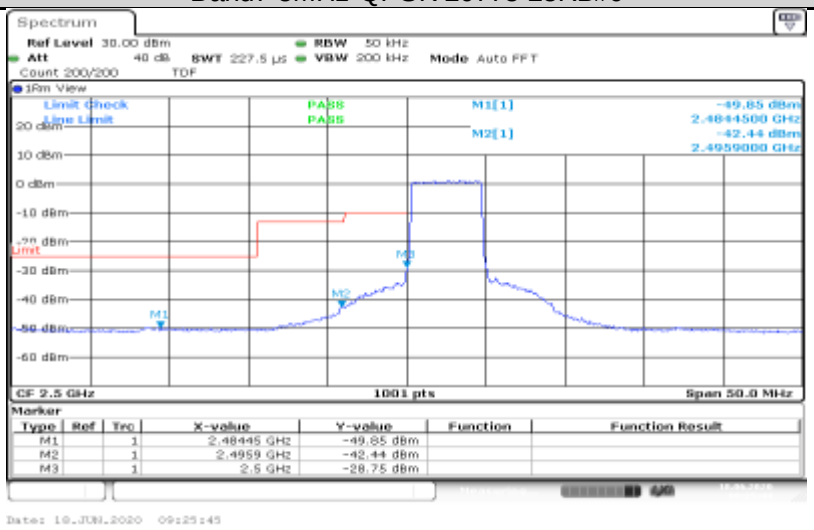
					30.67	
Band7	20MHz	QPSK	21350	1RB#99	-42.93,-39.84,-30.24	PASS
Band7	20MHz	QPSK	21350	100RB#0	-42.68,-38.34,-31.69	PASS
Band7	20MHz	16QAM	20850	1RB#0	-42.28,-41.50,-30.81	PASS
Band7	20MHz	16QAM	20850	100RB#0	-39.75,-37.70,-34.40	PASS
Band7	20MHz	16QAM	21350	1RB#99	-42.74,-41.06,-33.03	PASS
Band7	20MHz	16QAM	21350	100RB#0	-42.89,-37.90,-33.87	PASS

4.2 Test Graphs

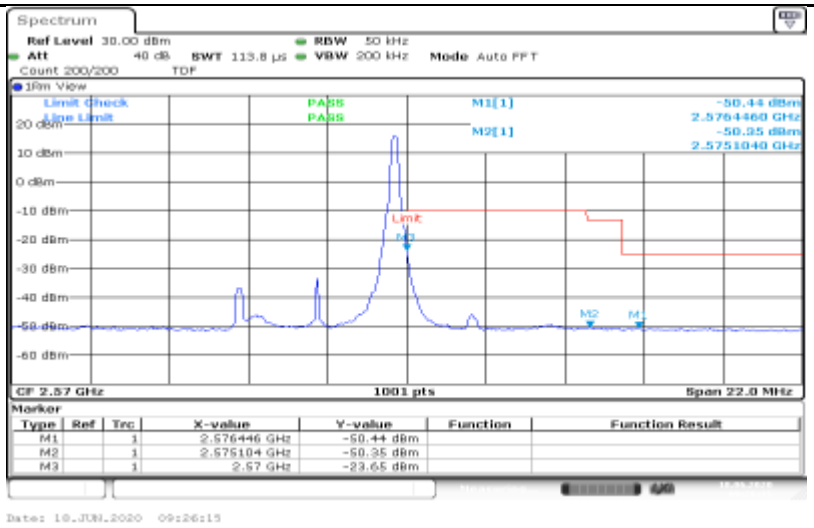
Band7-5MHz-QPSK-20775-1RB#0



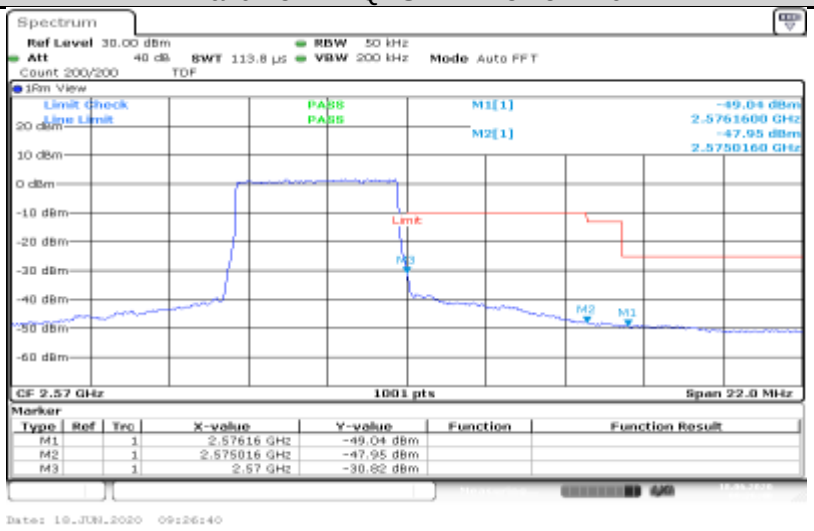
Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21425-1RB#24



Band7-5MHz-QPSK-21425-25RB#0



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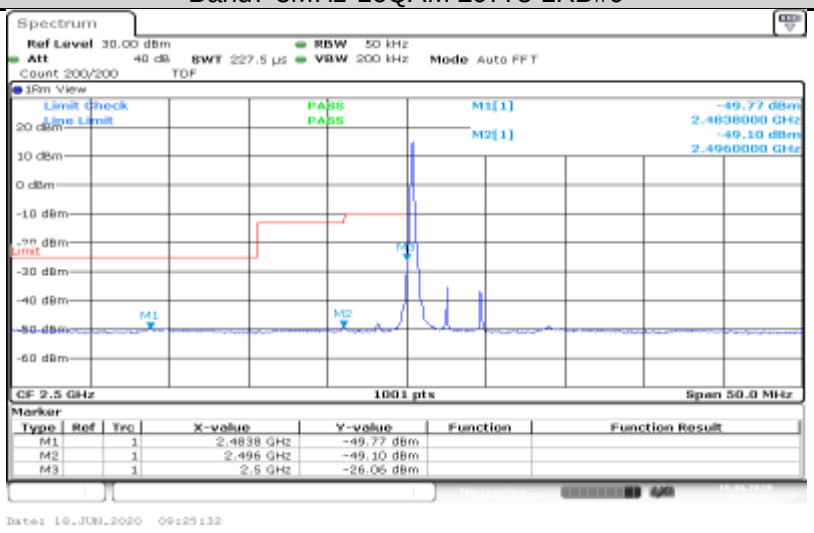

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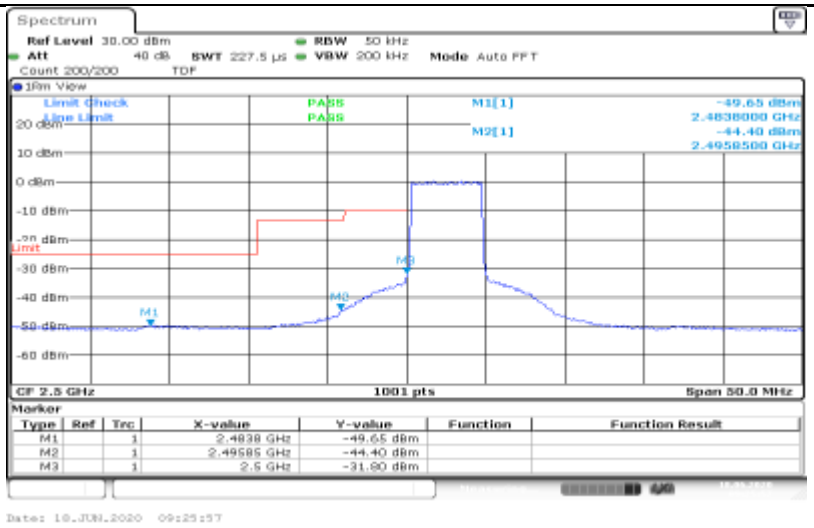

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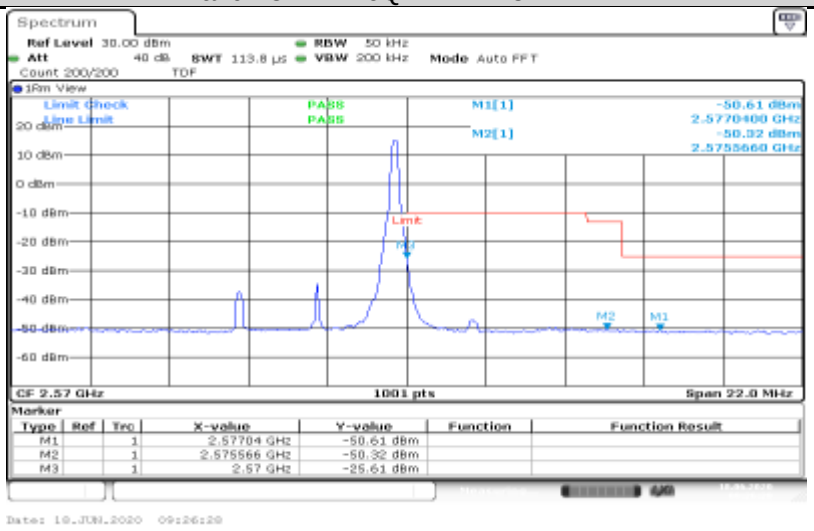
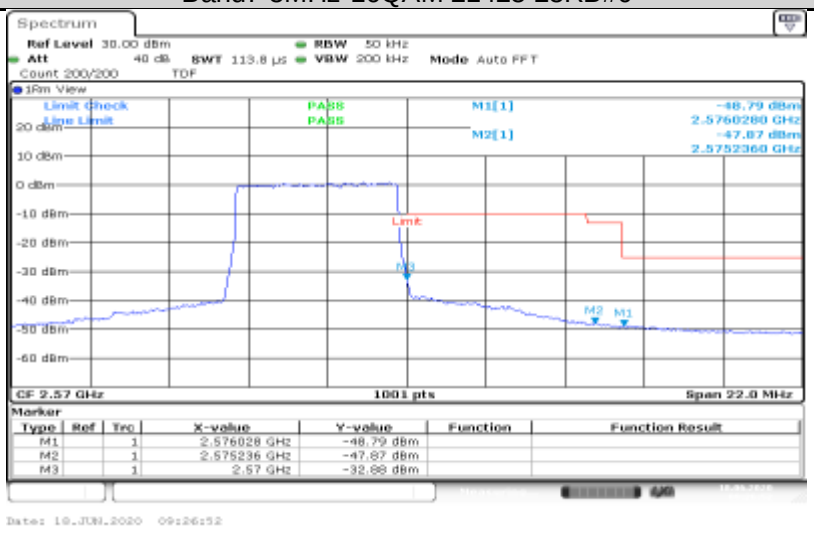
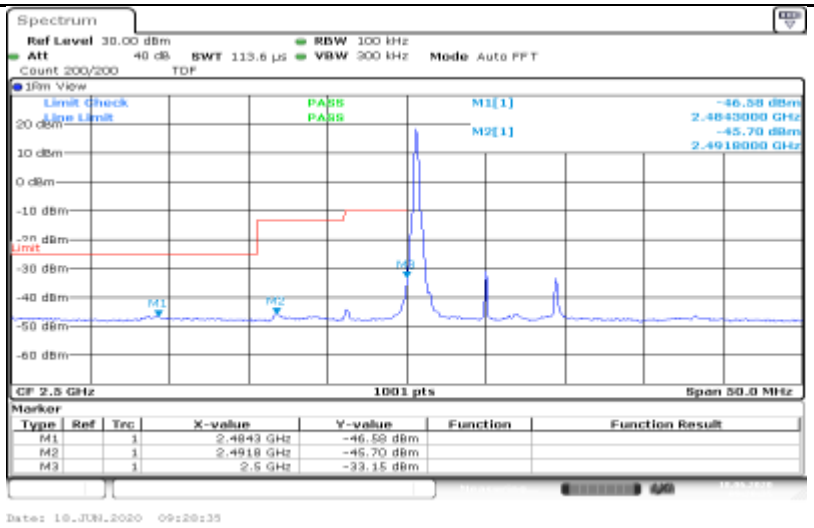


Band7-5MHz-16QAM-21425-25RB#0



Band7-10MHz-QPSK-20800-1RB#0



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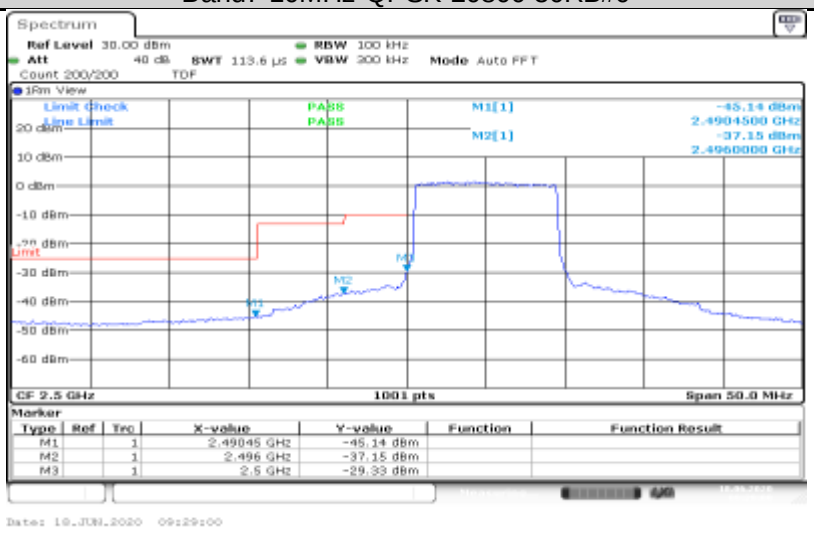
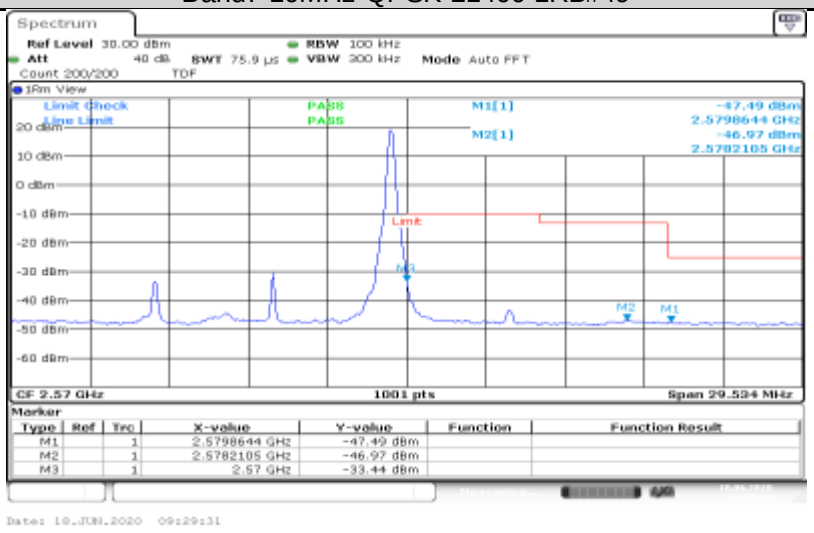
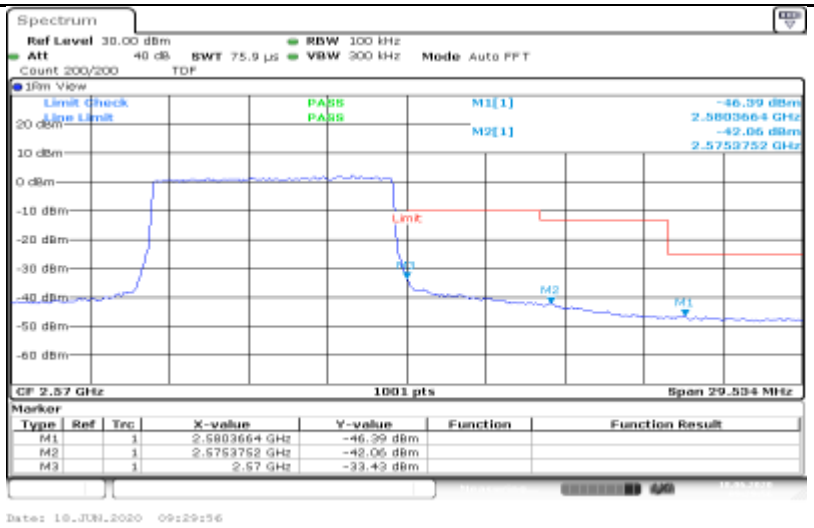


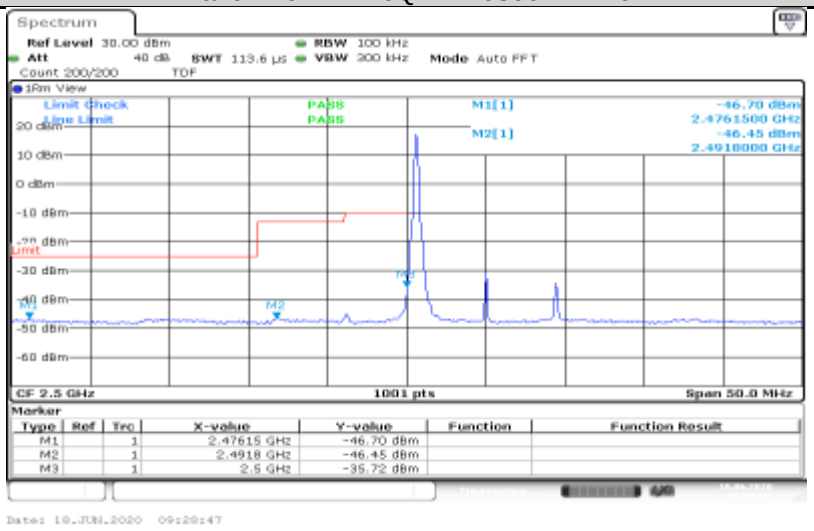
Band7-10MHz-QPSK-21400-1RB#49



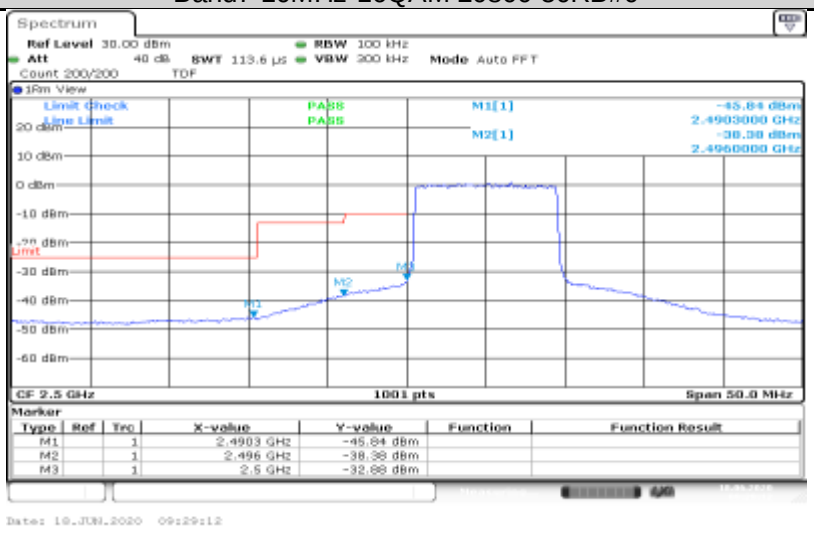
Band7-10MHz-QPSK-21400-50RB#0



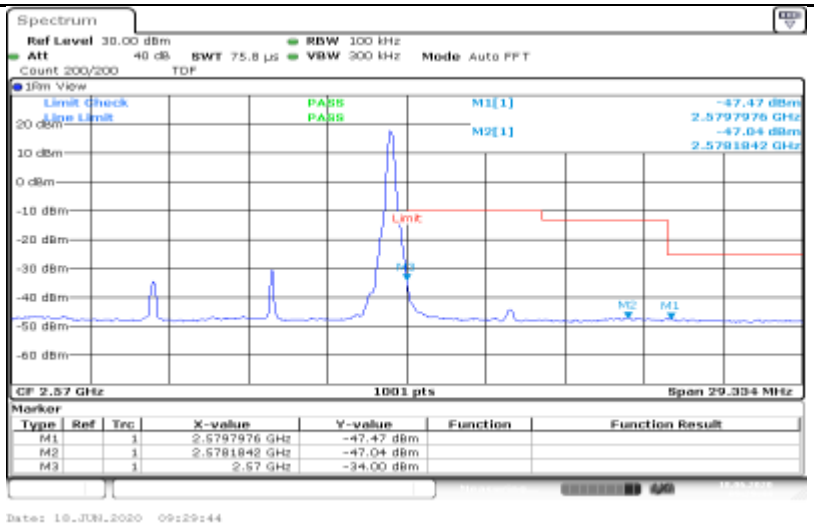
Band7-10MHz-16QAM-20800-1RB#0



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21400-1RB#49



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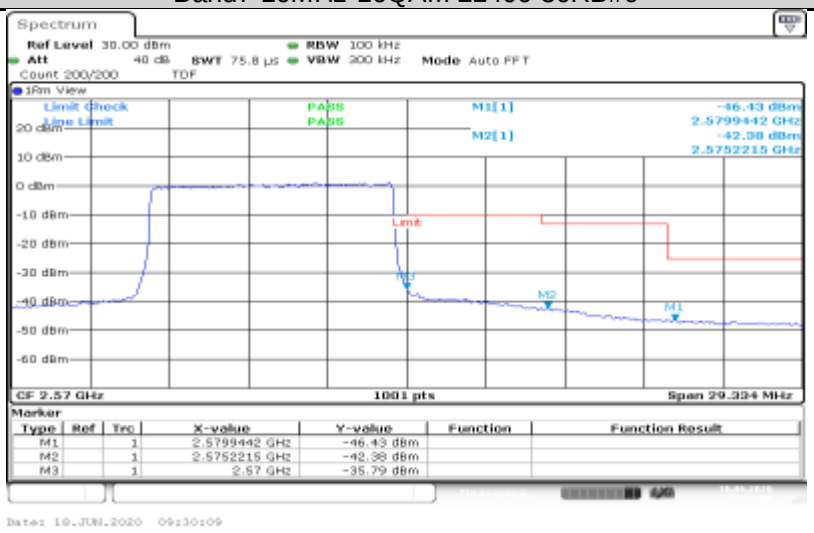

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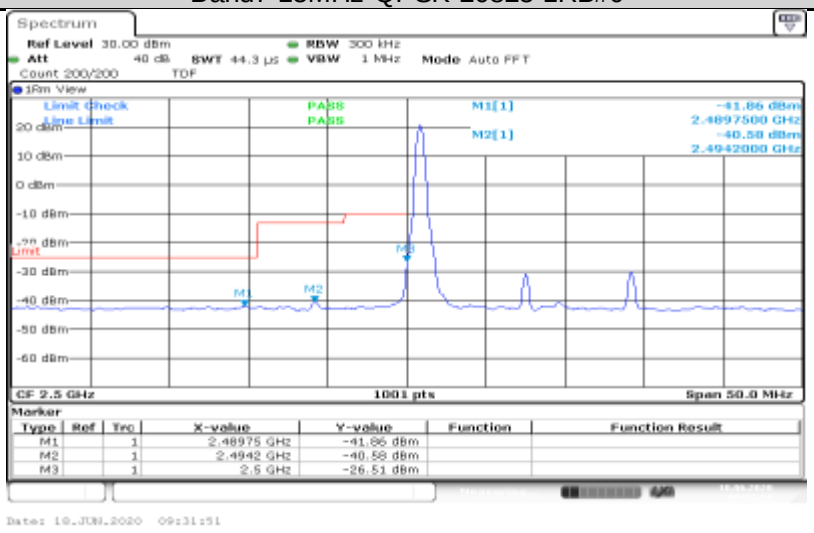
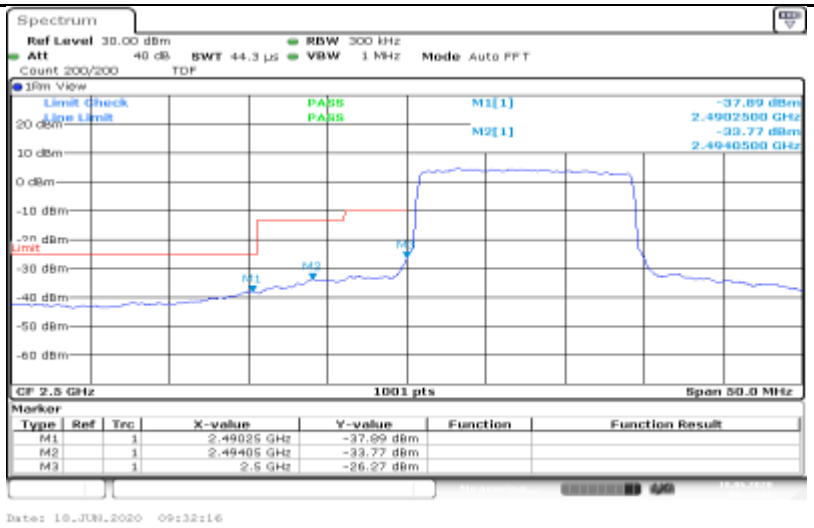
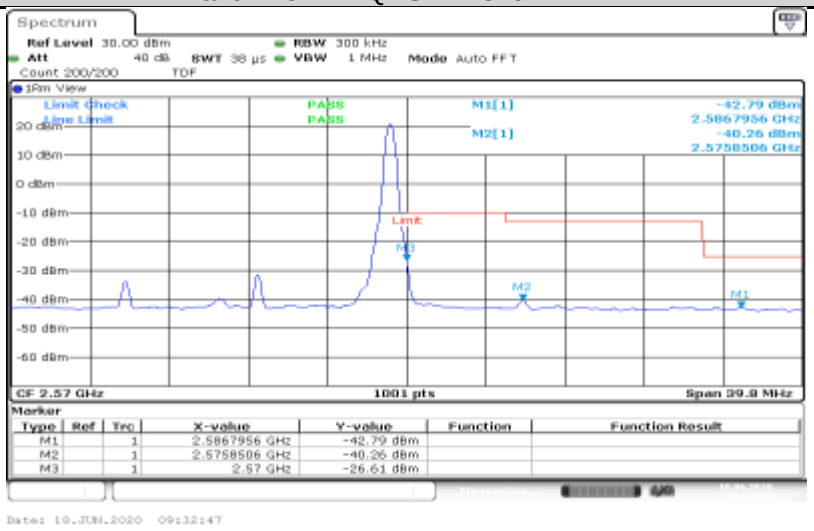


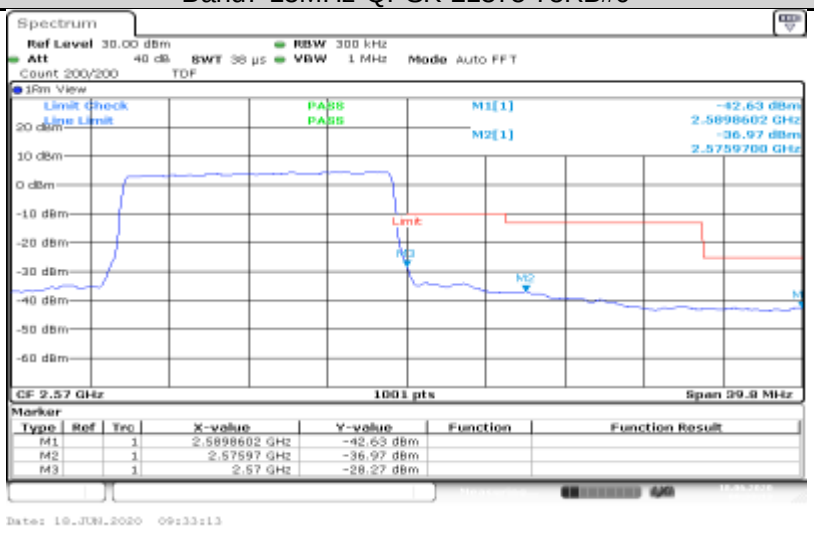
Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21375-1RB#74



Band7-15MHz-QPSK-21375-75RB#0



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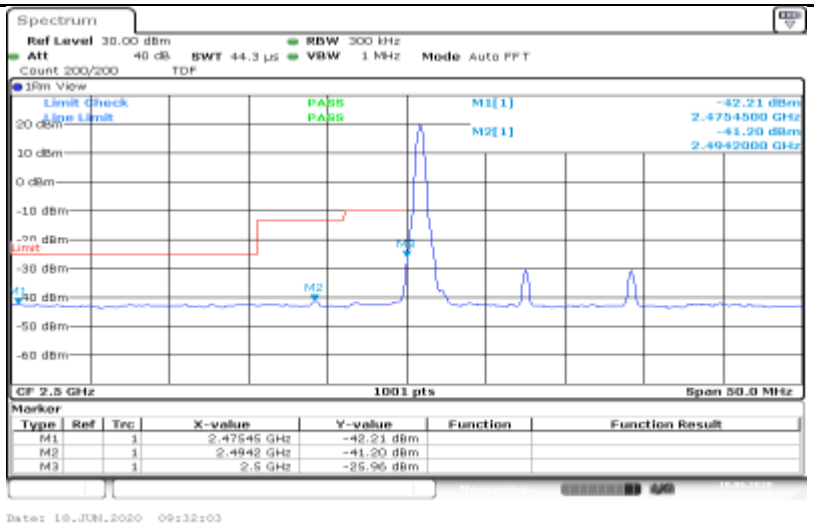
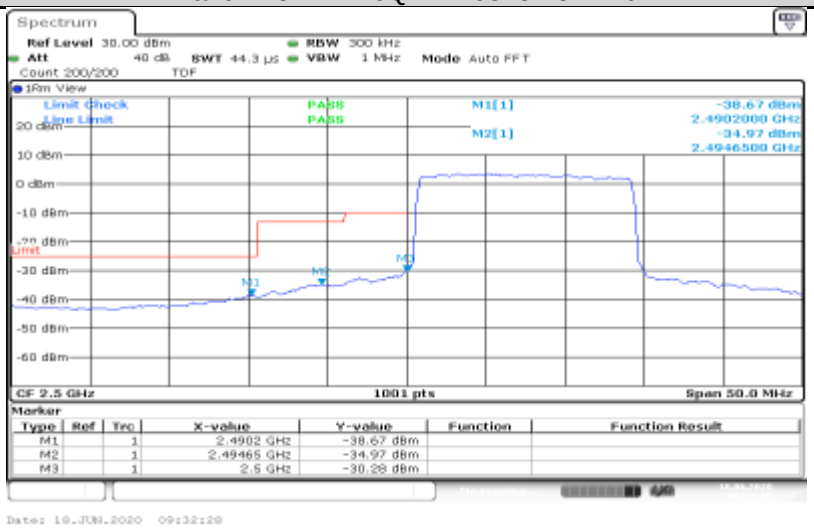
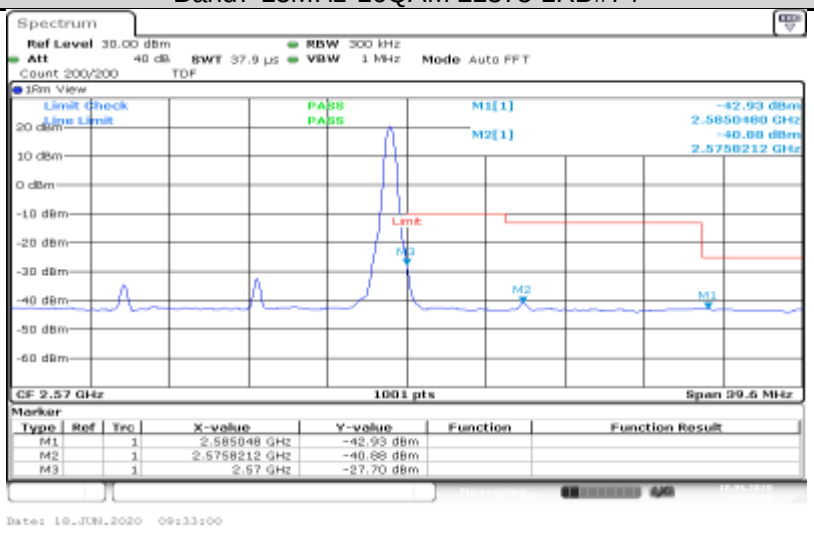


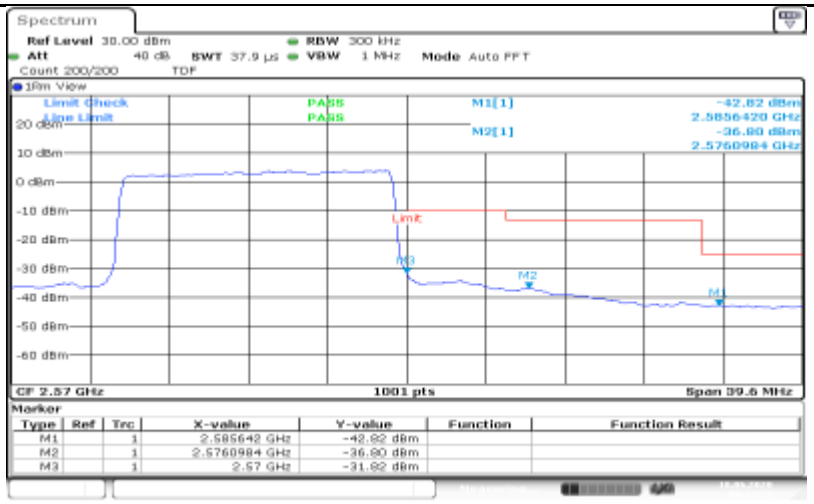
Band7-15MHz-16QAM-20825-75RB#0



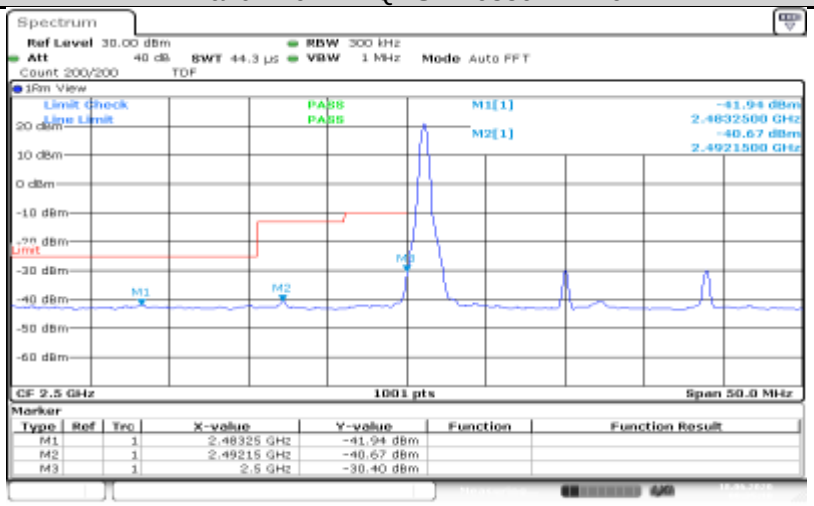
Band7-15MHz-16QAM-21375-1RB#74



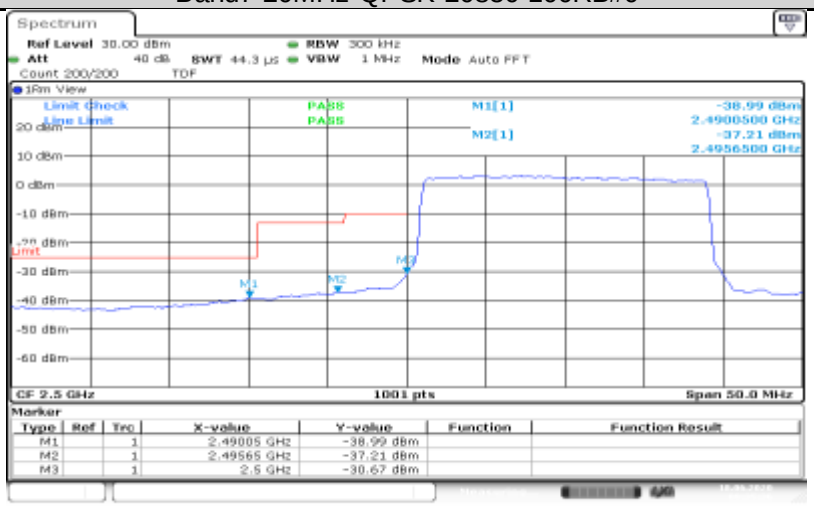
Band7-15MHz-16QAM-21375-75RB#0



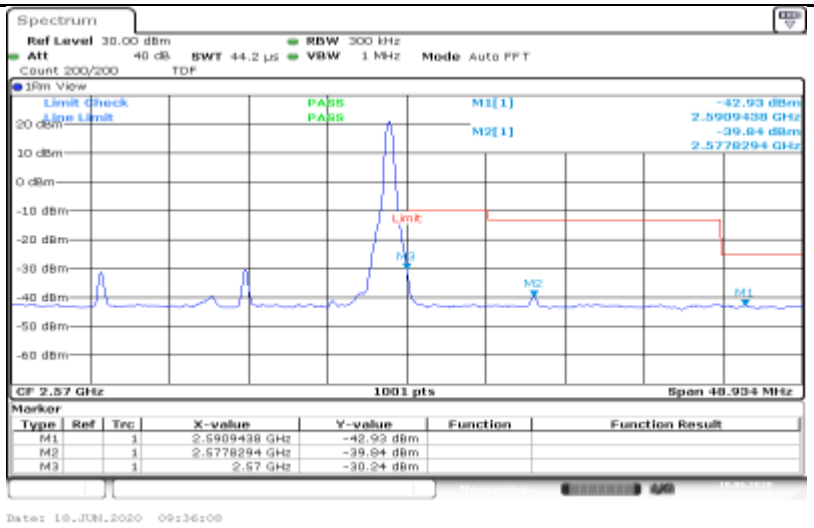
Band7-20MHz-QPSK-20850-1RB#0



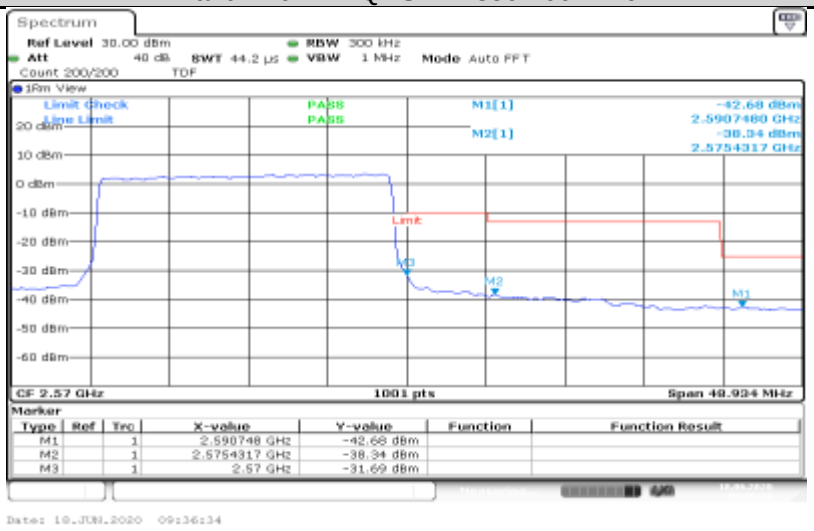
Band7-20MHz-QPSK-20850-100RB#0



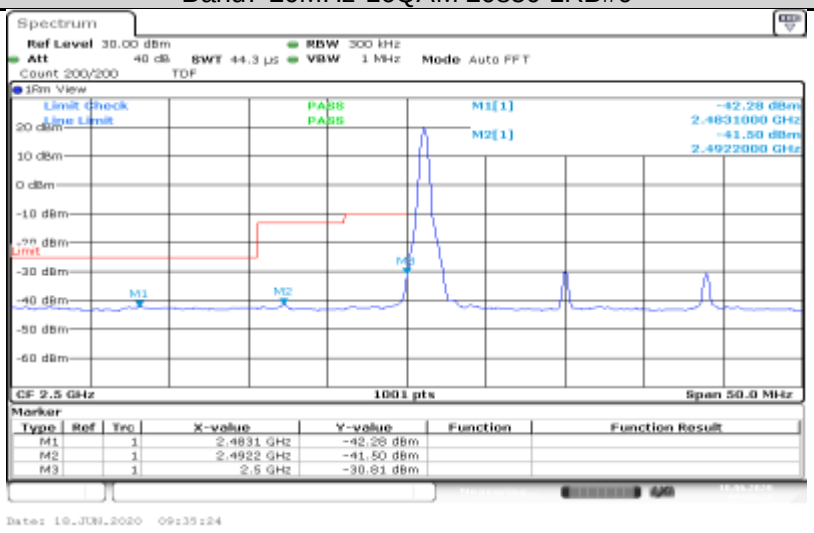
Band7-20MHz-QPSK-21350-1RB#99



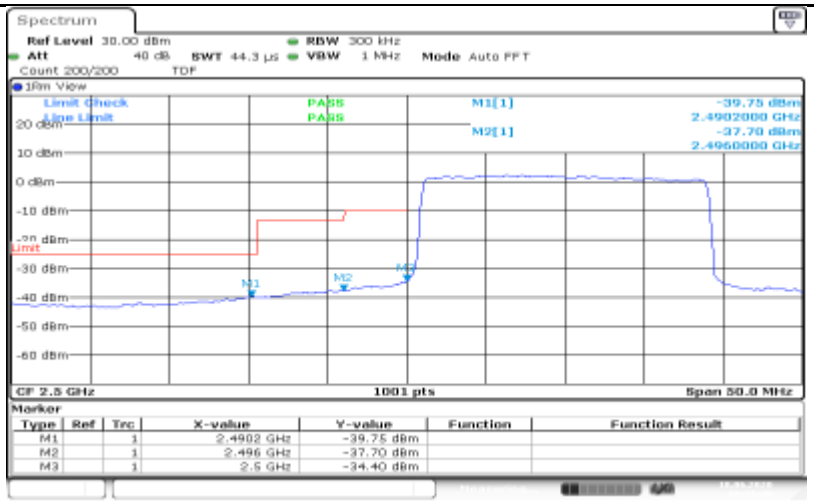
Band7-20MHz-QPSK-21350-100RB#0



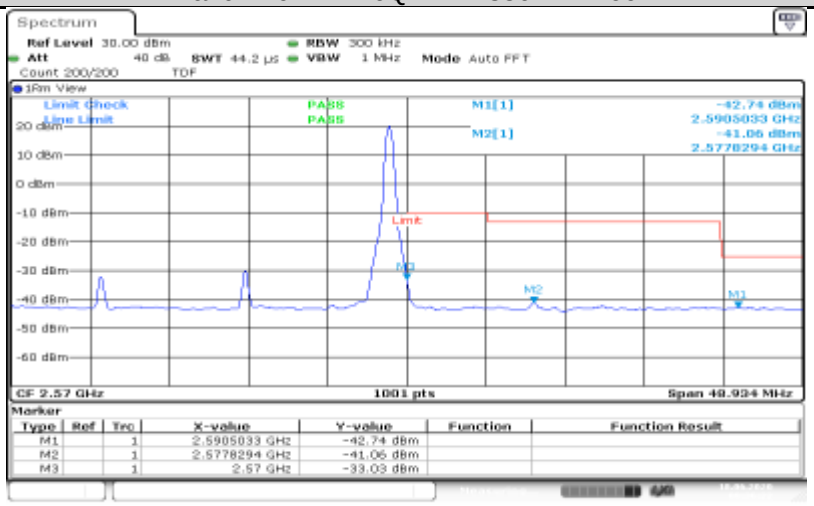
Band7-20MHz-16QAM-20850-1RB#0



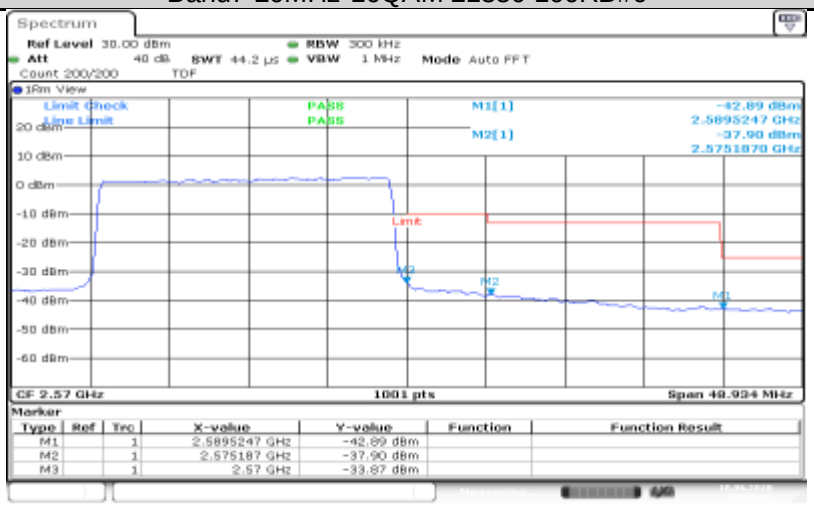
Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21350-1RB#99



Band7-20MHz-16QAM-21350-100RB#0



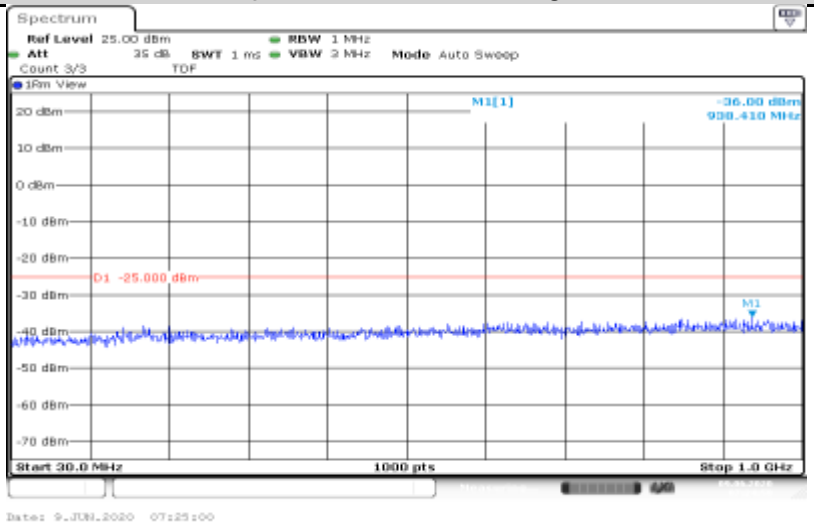
5. Conducted Spurious Emission

5.1 Test Result

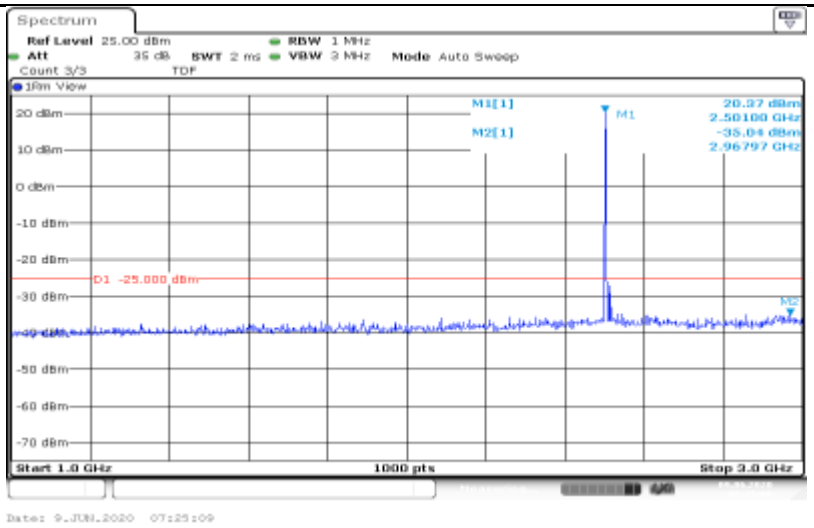
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-36	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~3000MHz	-35.04	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range3:3000~26500MHz	-37.79	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-36.02	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-35.05	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-37.58	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-35.54	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~3000MHz	-35.21	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range3:3000~26500MHz	-37.73	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range1:30~1000MHz	-35.38	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range2:1000~3000MHz	-34.74	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range3:3000~26500MHz	-37.24	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range1:30~1000MHz	-36.3	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range2:1000~3000MHz	-33.95	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range3:3000~26500MHz	-36.57	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range1:30~1000MHz	-36.65	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range2:1000~3000MHz	-33.96	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range3:3000~26500MHz	-37.76	PASS

5.2 Test Graphs

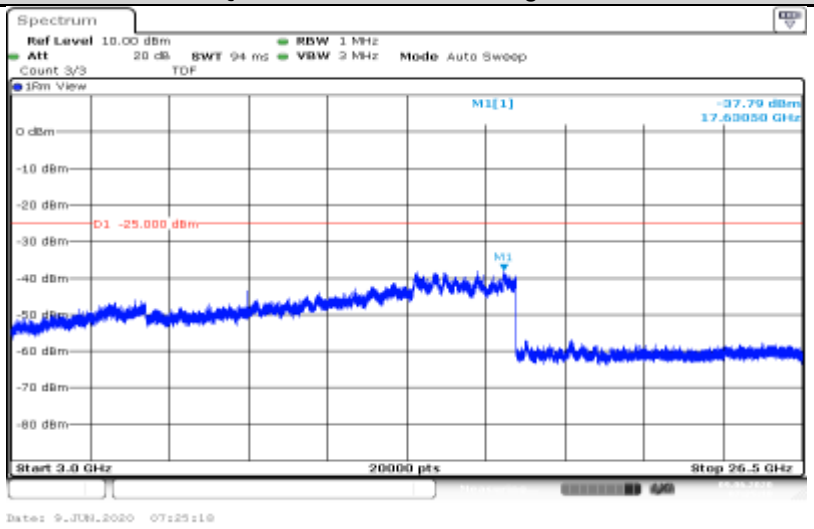
Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



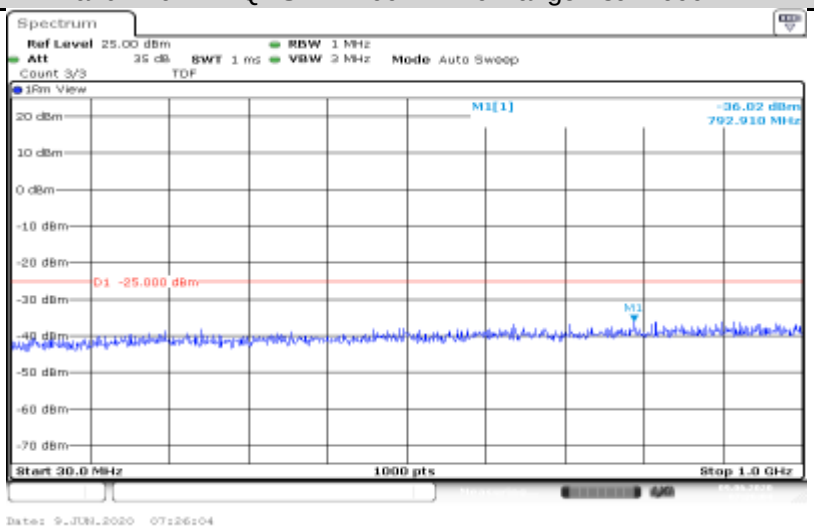
Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~3000MHz



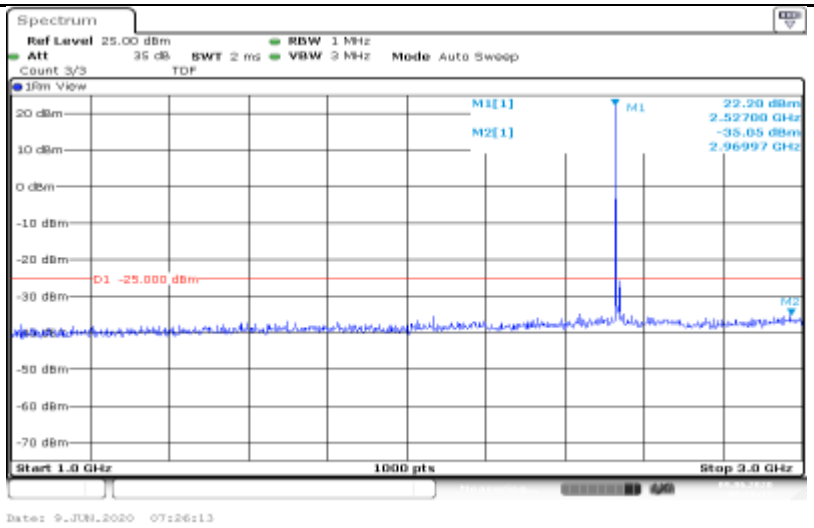
Band7-20MHz-QPSK-20850-1RB#0-Range3:3000~26500MHz



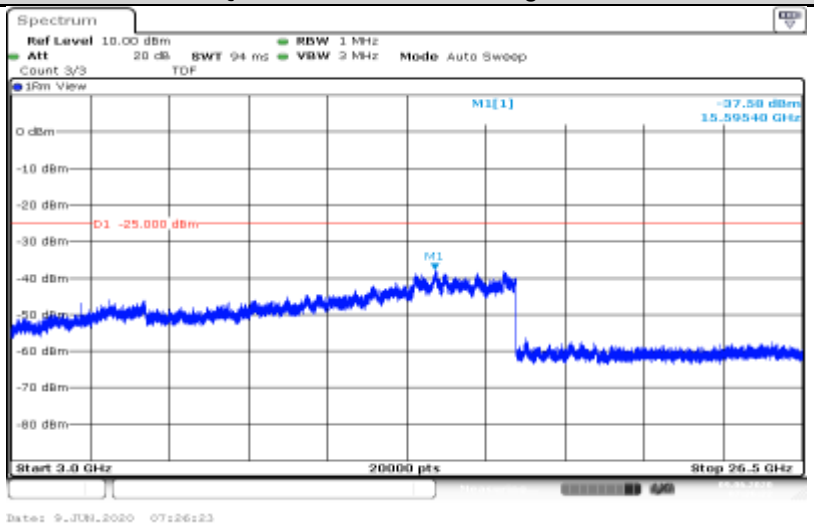
Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



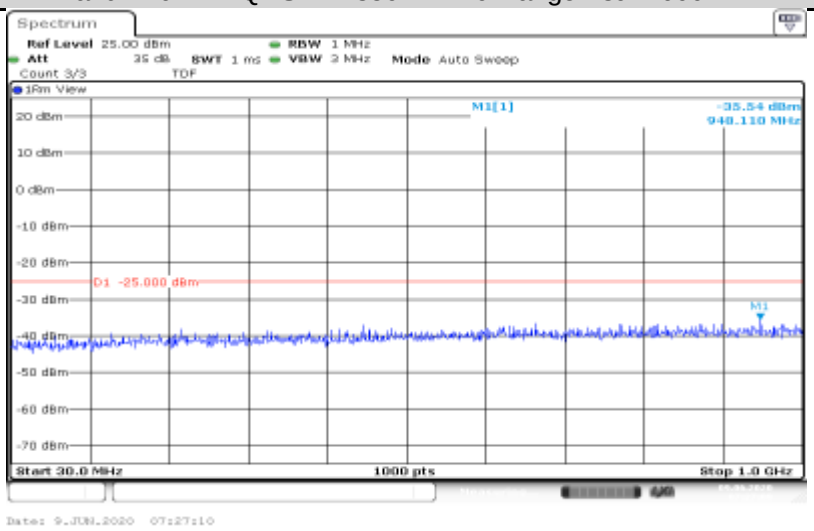
Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



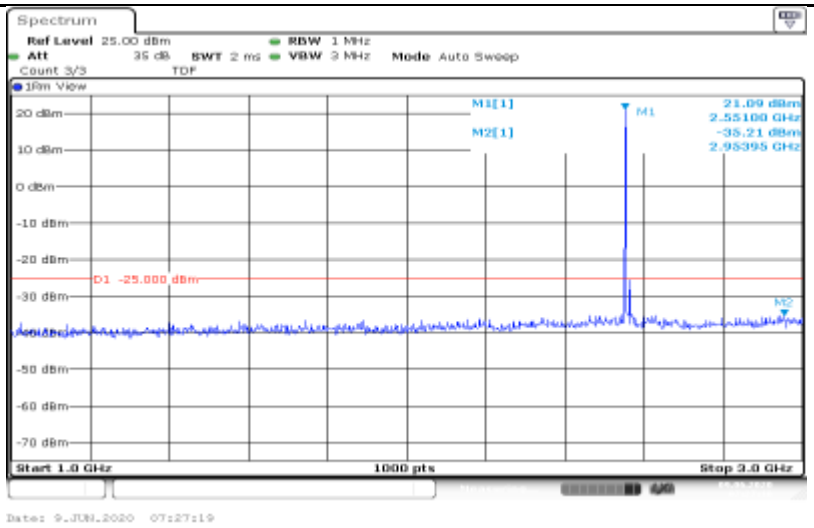
Band7-20MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



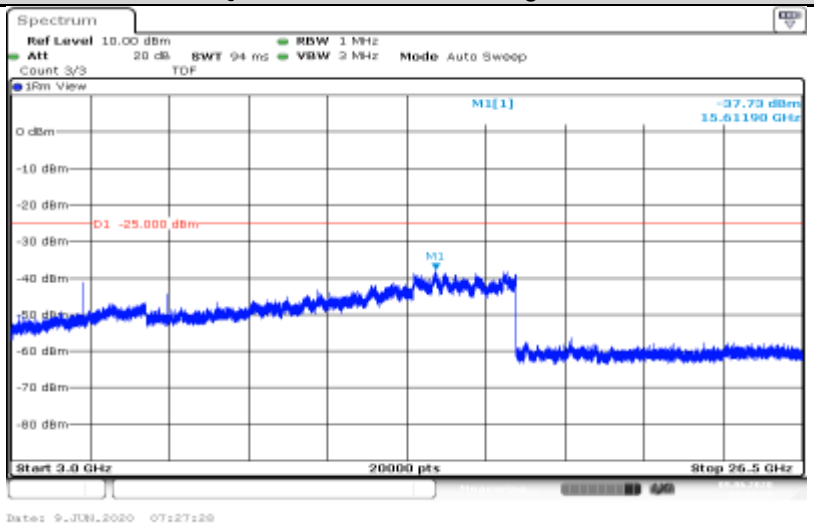
Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



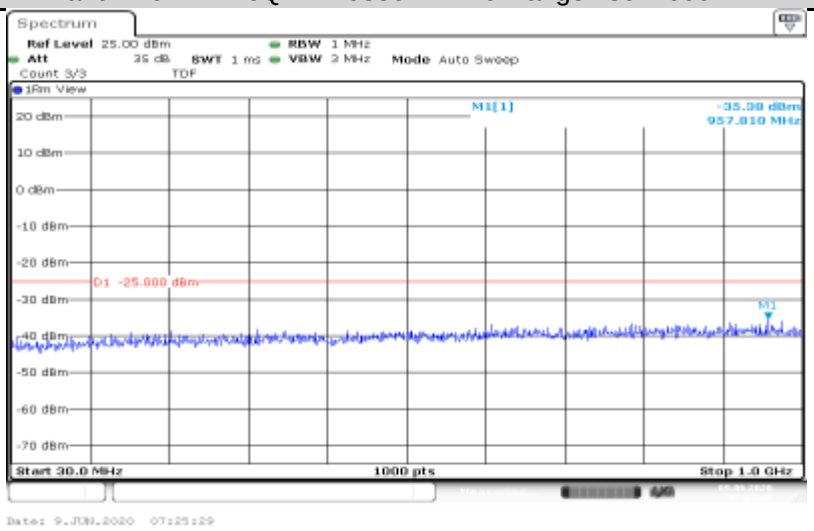
Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~3000MHz



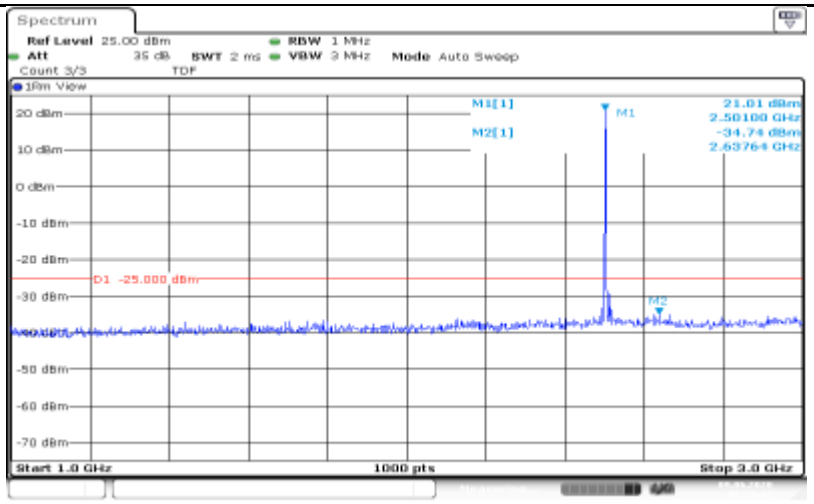
Band7-20MHz-QPSK-21350-1RB#0-Range3:3000~26500MHz



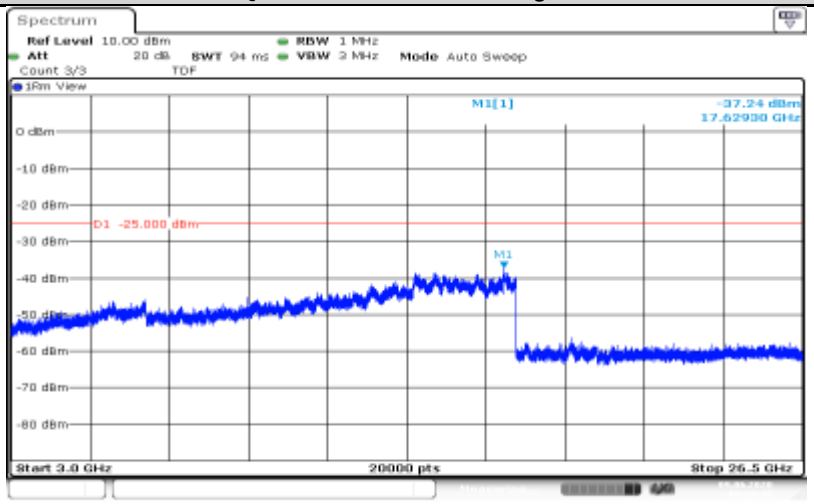
Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz



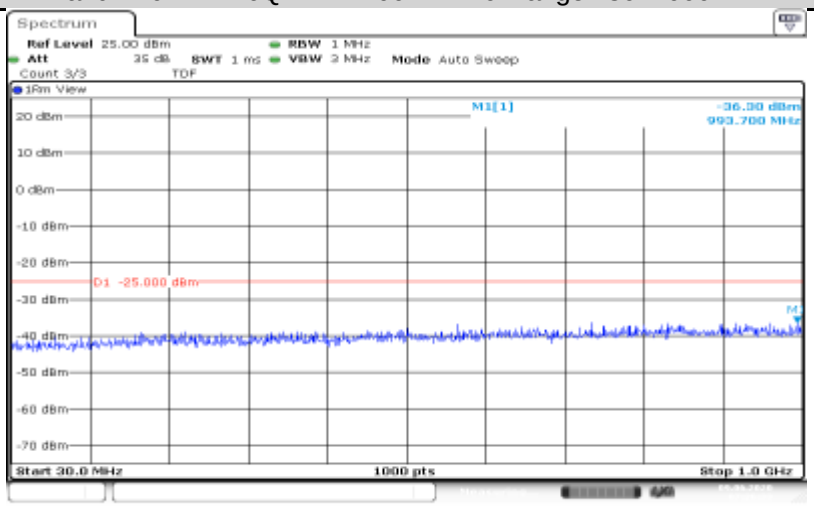
Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~3000MHz



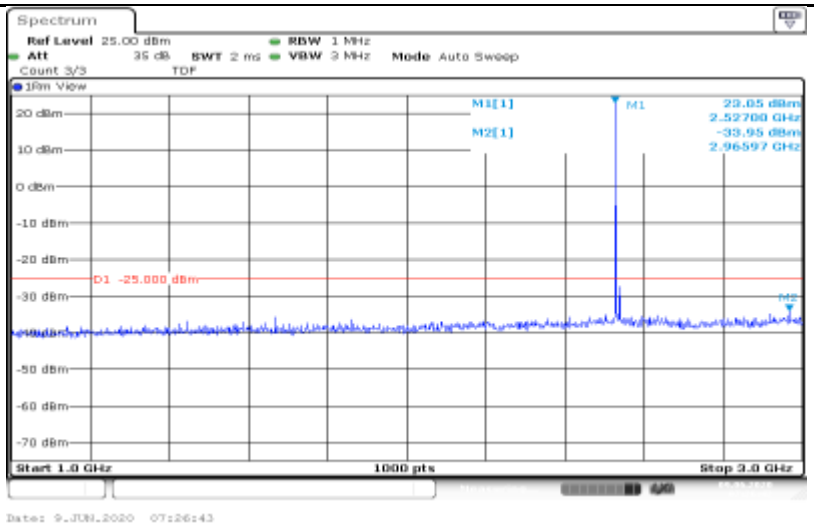
Band7-20MHz-16QAM-20850-1RB#0-Range3:3000~26500MHz



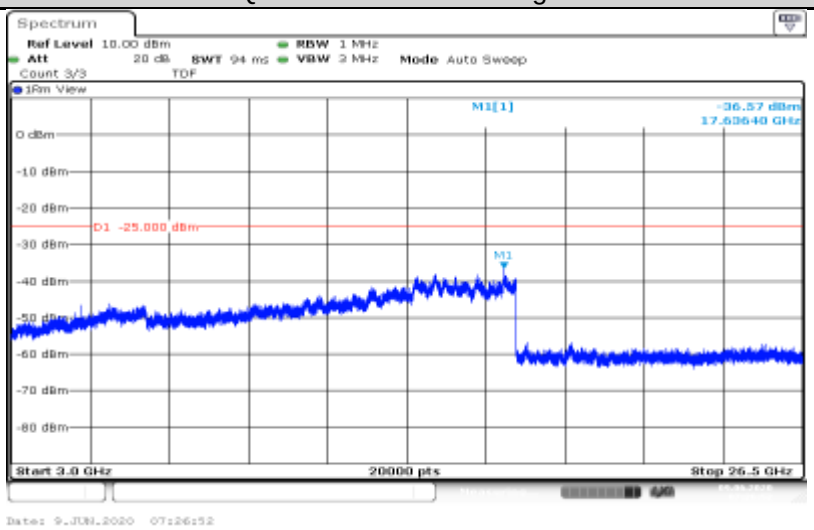
Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz



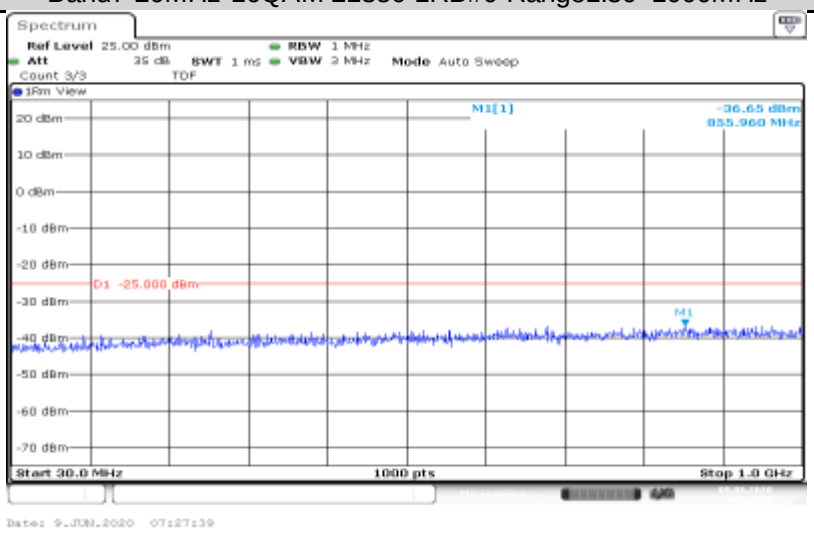
Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~3000MHz



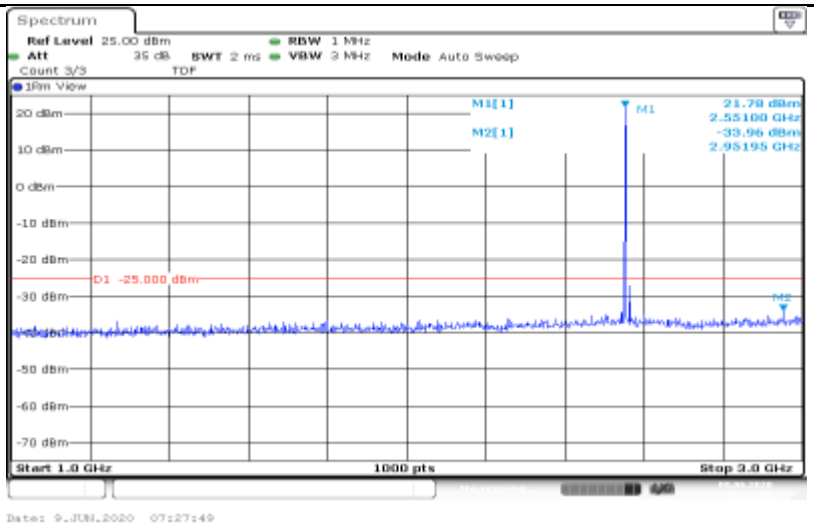
Band7-20MHz-16QAM-21100-1RB#0-Range3:3000~26500MHz



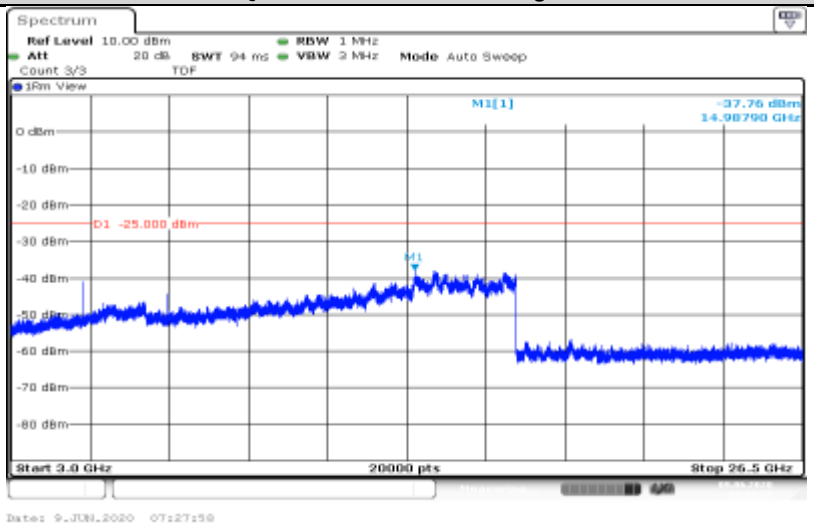
Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz



Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~3000MHz



Band7-20MHz-16QAM-21350-1RB#0-Range3:3000~26500MHz



6. Frequency Stability

6.1 Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	50RB#0	VL	NT	-7.71	-0.003072	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	VN	NT	7.21	0.002873	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	VH	NT	-10.57	-0.004211	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	VL	NT	-12.73	-0.005022	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	VN	NT	-11.04	-0.004355	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	VH	NT	-8.96	-0.003535	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	VL	NT	6.79	0.002652	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	VN	NT	6.69	0.002613	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	VH	NT	10.73	0.004191	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	VL	NT	-9.54	-0.003801	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	VN	NT	-14.09	-0.005614	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	VH	NT	5.18	0.002064	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	VL	NT	-10.14	-0.004000	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	VN	NT	-16.25	-0.006410	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	VH	NT	-4.78	-0.001886	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	VL	NT	15.92	0.006219	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	VN	NT	5.87	0.002293	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	VH	NT	7.14	0.002789	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	50RB#0	NV	-30	-13.62	-0.005426	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	-20	6.87	0.002737	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	0	-13.88	-0.005530	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	10	-6.57	-0.002618	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	20	-12.50	-0.004980	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	30	-4.82	-0.001920	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	40	-11.17	-0.004450	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	50	5.75	0.002291	±2.5	PASS
Band7	20MHz	QPSK	20850	50RB#0	NV	55	7.08	0.002821	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	-30	7.52	0.002966	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	-20	-10.31	-0.004067	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	0	-5.81	-0.002292	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	10	10.21	0.004028	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	20	-8.31	-0.003278	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	30	7.61	0.003002	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	40	10.47	0.004130	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	50	-5.56	-0.002193	±2.5	PASS
Band7	20MHz	QPSK	21100	50RB#0	NV	55	12.02	0.004742	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	-30	12.90	0.005039	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	-20	13.18	0.005148	±2.5	PASS

Band7	20MHz	QPSK	21350	50RB#0	NV	0	11.92	0.004656	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	10	8.07	0.003152	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	20	6.61	0.002582	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	30	15.35	0.005996	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	40	11.93	0.004660	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	50	9.77	0.003816	±2.5	PASS
Band7	20MHz	QPSK	21350	50RB#0	NV	55	6.98	0.002727	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	-30	-9.17	-0.003653	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	-20	-9.66	-0.003849	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	0	-13.07	-0.005207	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	10	-14.81	-0.005900	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	20	-14.43	-0.005749	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	30	-16.48	-0.006566	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	40	-13.02	-0.005187	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	50	-14.35	-0.005717	±2.5	PASS
Band7	20MHz	16QAM	20850	50RB#0	NV	55	-13.39	-0.005335	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	-30	7.70	0.003037	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	-20	-8.73	-0.003444	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	0	3.60	0.001420	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	10	-14.32	-0.005649	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	20	-6.52	-0.002572	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	30	9.17	0.003617	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	40	-8.90	-0.003511	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	50	4.02	0.001586	±2.5	PASS
Band7	20MHz	16QAM	21100	50RB#0	NV	55	-13.86	-0.005467	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	-30	6.11	0.002387	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	-20	4.32	0.001688	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	0	4.29	0.001676	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	10	-2.88	-0.001125	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	20	18.55	0.007246	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	30	-5.54	-0.002164	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	40	-7.93	-0.003098	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	50	18.34	0.007164	±2.5	PASS
Band7	20MHz	16QAM	21350	50RB#0	NV	55	-7.02	-0.002742	±2.5	PASS