



CTC Laboratories, Inc.

Appendix for LTE Band 4

FCC ID: 2AZPZ-T25

IC: 27212-T25

Applicant: YAHAM OPTOELECTRONICS CO., LTD

**Address: Bldg. A&D, Yongwei Industrial Park, #118
Yongfu Road, Fuhai Str., Bao'an Dist. Shenzhen China**

Product Name: Taxi Roof LED Display

EUT Model: YHT-TAXI-T2.5



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Appendix A: Conducted Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.00	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.04	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.12	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.11	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.01	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.89	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	20.67	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.93	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.98	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.51	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.77	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.77	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.66	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	20.74	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	21.76	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	21.65	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	21.54	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	21.66	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	21.55	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	21.65	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	20.68	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	21.00	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	21.23	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	21.14	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.98	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.97	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.79	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	19.62	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	20.78	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	20.74	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	20.79	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.68	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.78	PASS



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Band4	1.4MHz	16QAM	20175	3RB#3	21.75	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	19.72	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	20.57	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	20.61	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.36	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	21.55	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	21.65	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	21.65	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	19.56	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.05	PASS
Band4	3MHz	QPSK	19965	1RB#8	21.65	PASS
Band4	3MHz	QPSK	19965	1RB#14	22.14	PASS
Band4	3MHz	QPSK	19965	8RB#0	20.79	PASS
Band4	3MHz	QPSK	19965	8RB#4	20.45	PASS
Band4	3MHz	QPSK	19965	8RB#7	20.60	PASS
Band4	3MHz	QPSK	19965	15RB#0	20.67	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.01	PASS
Band4	3MHz	QPSK	20175	1RB#8	21.64	PASS
Band4	3MHz	QPSK	20175	1RB#14	21.68	PASS
Band4	3MHz	QPSK	20175	8RB#0	20.83	PASS
Band4	3MHz	QPSK	20175	8RB#4	20.64	PASS
Band4	3MHz	QPSK	20175	8RB#7	20.64	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.71	PASS
Band4	3MHz	QPSK	20385	1RB#0	21.73	PASS
Band4	3MHz	QPSK	20385	1RB#8	21.67	PASS
Band4	3MHz	QPSK	20385	1RB#14	21.80	PASS
Band4	3MHz	QPSK	20385	8RB#0	20.88	PASS
Band4	3MHz	QPSK	20385	8RB#4	20.77	PASS
Band4	3MHz	QPSK	20385	8RB#7	20.84	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.63	PASS
Band4	3MHz	16QAM	19965	1RB#0	20.93	PASS
Band4	3MHz	16QAM	19965	1RB#8	20.81	PASS
Band4	3MHz	16QAM	19965	1RB#14	20.47	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.70	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.44	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.68	PASS
Band4	3MHz	16QAM	19965	15RB#0	19.73	PASS



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Band4	3MHz	16QAM	20175	1RB#0	20.79	PASS
Band4	3MHz	16QAM	20175	1RB#8	20.60	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.82	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.84	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.65	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.69	PASS
Band4	3MHz	16QAM	20175	15RB#0	19.69	PASS
Band4	3MHz	16QAM	20385	1RB#0	20.71	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.79	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.96	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.79	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.38	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.75	PASS
Band4	3MHz	16QAM	20385	15RB#0	19.71	PASS
Band4	5MHz	QPSK	19975	1RB#0	21.67	PASS
Band4	5MHz	QPSK	19975	1RB#12	21.67	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.68	PASS
Band4	5MHz	QPSK	19975	12RB#0	20.50	PASS
Band4	5MHz	QPSK	19975	12RB#6	20.49	PASS
Band4	5MHz	QPSK	19975	12RB#13	20.59	PASS
Band4	5MHz	QPSK	19975	25RB#0	20.53	PASS
Band4	5MHz	QPSK	20175	1RB#0	21.67	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.59	PASS
Band4	5MHz	QPSK	20175	1RB#24	21.67	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.72	PASS
Band4	5MHz	QPSK	20175	12RB#6	20.74	PASS
Band4	5MHz	QPSK	20175	12RB#13	20.53	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.74	PASS
Band4	5MHz	QPSK	20375	1RB#0	21.67	PASS
Band4	5MHz	QPSK	20375	1RB#12	21.58	PASS
Band4	5MHz	QPSK	20375	1RB#24	21.78	PASS
Band4	5MHz	QPSK	20375	12RB#0	20.55	PASS
Band4	5MHz	QPSK	20375	12RB#6	20.54	PASS
Band4	5MHz	QPSK	20375	12RB#13	20.67	PASS
Band4	5MHz	QPSK	20375	25RB#0	20.59	PASS
Band4	5MHz	16QAM	19975	1RB#0	20.62	PASS
Band4	5MHz	16QAM	19975	1RB#12	20.41	PASS



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Band4	5MHz	16QAM	19975	1RB#24	20.91	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.50	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.49	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.58	PASS
Band4	5MHz	16QAM	19975	25RB#0	19.58	PASS
Band4	5MHz	16QAM	20175	1RB#0	20.58	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.57	PASS
Band4	5MHz	16QAM	20175	1RB#24	20.52	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.73	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.75	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.63	PASS
Band4	5MHz	16QAM	20175	25RB#0	19.81	PASS
Band4	5MHz	16QAM	20375	1RB#0	20.24	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.48	PASS
Band4	5MHz	16QAM	20375	1RB#24	20.77	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.54	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.54	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.68	PASS
Band4	5MHz	16QAM	20375	25RB#0	19.58	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.56	PASS
Band4	10MHz	QPSK	20000	1RB#24	22.93	PASS
Band4	10MHz	QPSK	20000	1RB#49	22.85	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.92	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.91	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.00	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.00	PASS
Band4	10MHz	QPSK	20175	1RB#0	23.13	PASS
Band4	10MHz	QPSK	20175	1RB#24	23.54	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.96	PASS
Band4	10MHz	QPSK	20175	25RB#0	22.29	PASS
Band4	10MHz	QPSK	20175	25RB#12	22.28	PASS
Band4	10MHz	QPSK	20175	25RB#25	22.29	PASS
Band4	10MHz	QPSK	20175	50RB#0	22.27	PASS
Band4	10MHz	QPSK	20350	1RB#0	23.31	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.59	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.38	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.22	PASS



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Band4	10MHz	QPSK	20350	25RB#12	22.24	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.11	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.16	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.69	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.16	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.00	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.91	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.89	PASS
Band4	10MHz	16QAM	20000	25RB#25	22.01	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.96	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.93	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.27	PASS
Band4	10MHz	16QAM	20175	1RB#49	22.02	PASS
Band4	10MHz	16QAM	20175	25RB#0	22.29	PASS
Band4	10MHz	16QAM	20175	25RB#12	22.28	PASS
Band4	10MHz	16QAM	20175	25RB#25	22.29	PASS
Band4	10MHz	16QAM	20175	50RB#0	21.17	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.60	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.87	PASS
Band4	10MHz	16QAM	20350	1RB#49	23.04	PASS
Band4	10MHz	16QAM	20350	25RB#0	22.24	PASS
Band4	10MHz	16QAM	20350	25RB#12	22.24	PASS
Band4	10MHz	16QAM	20350	25RB#25	22.11	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.25	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.54	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.89	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.82	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.79	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.00	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.97	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.06	PASS
Band4	15MHz	QPSK	20175	1RB#0	23.27	PASS
Band4	15MHz	QPSK	20175	1RB#38	23.33	PASS
Band4	15MHz	QPSK	20175	1RB#74	23.11	PASS
Band4	15MHz	QPSK	20175	38RB#0	22.94	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.90	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.96	PASS



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Band4	15MHz	QPSK	20175	75RB#0	22.38	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.23	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.08	PASS
Band4	15MHz	QPSK	20325	1RB#74	22.97	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.38	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.21	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.15	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.25	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.49	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.04	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.10	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.78	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.01	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.96	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.04	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.14	PASS
Band4	15MHz	16QAM	20175	1RB#38	22.06	PASS
Band4	15MHz	16QAM	20175	1RB#74	22.96	PASS
Band4	15MHz	16QAM	20175	38RB#0	22.93	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.82	PASS
Band4	15MHz	16QAM	20175	38RB#37	22.96	PASS
Band4	15MHz	16QAM	20175	75RB#0	21.24	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.39	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.10	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.11	PASS
Band4	15MHz	16QAM	20325	38RB#0	22.44	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.19	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.17	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.20	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.56	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.54	PASS
Band4	20MHz	QPSK	20050	1RB#99	23.05	PASS
Band4	20MHz	QPSK	20050	50RB#0	22.06	PASS
Band4	20MHz	QPSK	20050	50RB#25	22.07	PASS
Band4	20MHz	QPSK	20050	50RB#50	22.23	PASS
Band4	20MHz	QPSK	20050	100RB#0	22.18	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.97	PASS



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Band4	20MHz	QPSK	20175	1RB#49	23.28	PASS
Band4	20MHz	QPSK	20175	1RB#99	23.19	PASS
Band4	20MHz	QPSK	20175	50RB#0	22.33	PASS
Band4	20MHz	QPSK	20175	50RB#25	22.32	PASS
Band4	20MHz	QPSK	20175	50RB#50	22.36	PASS
Band4	20MHz	QPSK	20175	100RB#0	22.35	PASS
Band4	20MHz	QPSK	20300	1RB#0	23.35	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.64	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.04	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.49	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.50	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.30	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.36	PASS
Band4	20MHz	16QAM	20050	1RB#0	22.56	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.75	PASS
Band4	20MHz	16QAM	20050	1RB#99	23.13	PASS
Band4	20MHz	16QAM	20050	50RB#0	22.07	PASS
Band4	20MHz	16QAM	20050	50RB#25	22.07	PASS
Band4	20MHz	16QAM	20050	50RB#50	22.23	PASS
Band4	20MHz	16QAM	20050	100RB#0	21.15	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.93	PASS
Band4	20MHz	16QAM	20175	1RB#49	22.03	PASS
Band4	20MHz	16QAM	20175	1RB#99	22.38	PASS
Band4	20MHz	16QAM	20175	50RB#0	22.33	PASS
Band4	20MHz	16QAM	20175	50RB#25	22.32	PASS
Band4	20MHz	16QAM	20175	50RB#50	22.36	PASS
Band4	20MHz	16QAM	20175	100RB#0	21.18	PASS
Band4	20MHz	16QAM	20300	1RB#0	22.53	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.55	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.24	PASS
Band4	20MHz	16QAM	20300	50RB#0	22.50	PASS
Band4	20MHz	16QAM	20300	50RB#25	22.50	PASS
Band4	20MHz	16QAM	20300	50RB#50	22.30	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.42	PASS



Appendix B: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	4.03	13	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	4.78	13	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	4.29	13	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	4.87	13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	4.29	13	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	4.87	13	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	5.07	13	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	5.62	13	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	5.39	13	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	5.77	13	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	5.30	13	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	5.83	13	PASS
Band4	3MHz	QPSK	19965	1RB#0	4.03	13	PASS
Band4	3MHz	QPSK	19965	15RB#0	4.96	13	PASS
Band4	3MHz	QPSK	20175	1RB#0	4.35	13	PASS
Band4	3MHz	QPSK	20175	15RB#0	5.01	13	PASS
Band4	3MHz	QPSK	20385	1RB#0	4.55	13	PASS
Band4	3MHz	QPSK	20385	15RB#0	5.07	13	PASS
Band4	3MHz	16QAM	19965	1RB#0	5.13	13	PASS
Band4	3MHz	16QAM	19965	15RB#0	5.74	13	PASS
Band4	3MHz	16QAM	20175	1RB#0	5.33	13	PASS
Band4	3MHz	16QAM	20175	15RB#0	5.83	13	PASS
Band4	3MHz	16QAM	20385	1RB#0	5.54	13	PASS
Band4	3MHz	16QAM	20385	15RB#0	5.97	13	PASS
Band4	5MHz	QPSK	19975	1RB#0	4.12	13	PASS
Band4	5MHz	QPSK	19975	25RB#0	5.01	13	PASS
Band4	5MHz	QPSK	20175	1RB#0	4.46	13	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.96	13	PASS
Band4	5MHz	QPSK	20375	1RB#0	4.61	13	PASS
Band4	5MHz	QPSK	20375	25RB#0	5.13	13	PASS
Band4	5MHz	16QAM	19975	1RB#0	5.01	13	PASS
Band4	5MHz	16QAM	19975	25RB#0	5.83	13	PASS
Band4	5MHz	16QAM	20175	1RB#0	5.30	13	PASS
Band4	5MHz	16QAM	20175	25RB#0	5.80	13	PASS
Band4	5MHz	16QAM	20375	1RB#0	5.45	13	PASS
Band4	5MHz	16QAM	20375	25RB#0	6.00	13	PASS
Band4	10MHz	QPSK	20000	1RB#0	4.35	13	PASS
Band4	10MHz	QPSK	20000	50RB#0	4.90	13	PASS



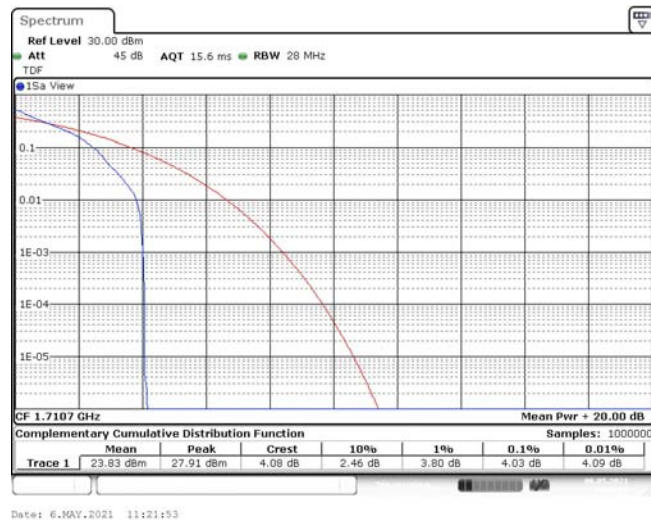
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Band4	10MHz	QPSK	20175	1RB#0	4.67	13	PASS
Band4	10MHz	QPSK	20175	50RB#0	5.07	13	PASS
Band4	10MHz	QPSK	20350	1RB#0	4.38	13	PASS
Band4	10MHz	QPSK	20350	50RB#0	5.01	13	PASS
Band4	10MHz	16QAM	20000	1RB#0	5.04	13	PASS
Band4	10MHz	16QAM	20000	50RB#0	5.83	13	PASS
Band4	10MHz	16QAM	20175	1RB#0	5.48	13	PASS
Band4	10MHz	16QAM	20175	50RB#0	5.97	13	PASS
Band4	10MHz	16QAM	20350	1RB#0	5.30	13	PASS
Band4	10MHz	16QAM	20350	50RB#0	5.97	13	PASS
Band4	15MHz	QPSK	20025	1RB#0	4.38	13	PASS
Band4	15MHz	QPSK	20025	75RB#0	5.01	13	PASS
Band4	15MHz	QPSK	20175	1RB#0	4.58	13	PASS
Band4	15MHz	QPSK	20175	75RB#0	5.07	13	PASS
Band4	15MHz	QPSK	20325	1RB#0	4.29	13	PASS
Band4	15MHz	QPSK	20325	75RB#0	5.10	13	PASS
Band4	15MHz	16QAM	20025	1RB#0	5.28	13	PASS
Band4	15MHz	16QAM	20025	75RB#0	5.86	13	PASS
Band4	15MHz	16QAM	20175	1RB#0	5.54	13	PASS
Band4	15MHz	16QAM	20175	75RB#0	5.91	13	PASS
Band4	15MHz	16QAM	20325	1RB#0	4.99	13	PASS
Band4	15MHz	16QAM	20325	75RB#0	5.91	13	PASS
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Band4	20MHz	QPSK	20050	100RB#0	4.81	13	PASS
Band4	20MHz	QPSK	20175	1RB#0	4.49	13	PASS
Band4	20MHz	QPSK	20175	100RB#0	4.90	13	PASS
Band4	20MHz	QPSK	20300	1RB#0	4.41	13	PASS
Band4	20MHz	QPSK	20300	100RB#0	4.87	13	PASS
Band4	20MHz	16QAM	20050	1RB#0	5.19	13	PASS
Band4	20MHz	16QAM	20050	100RB#0	5.83	13	PASS
Band4	20MHz	16QAM	20175	1RB#0	5.28	13	PASS
Band4	20MHz	16QAM	20175	100RB#0	5.86	13	PASS
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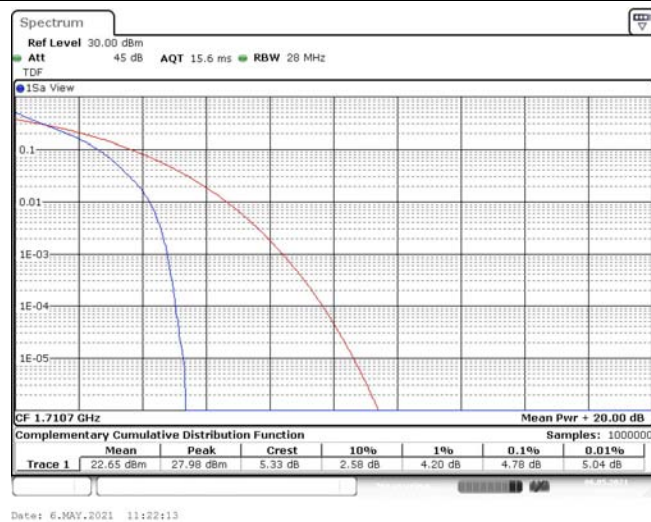


Test Graphs

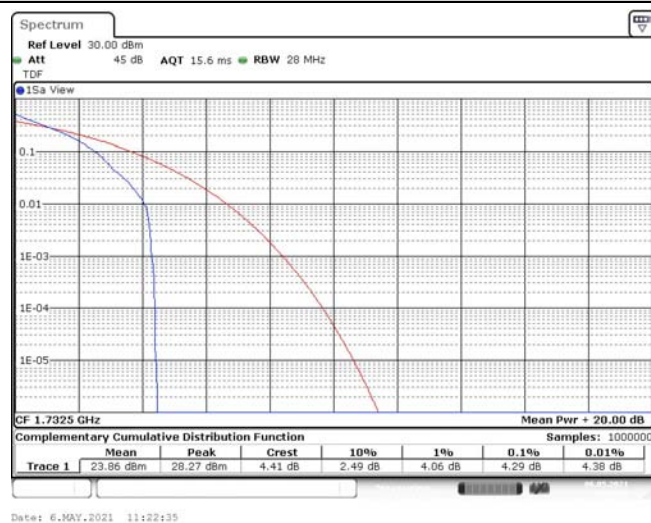
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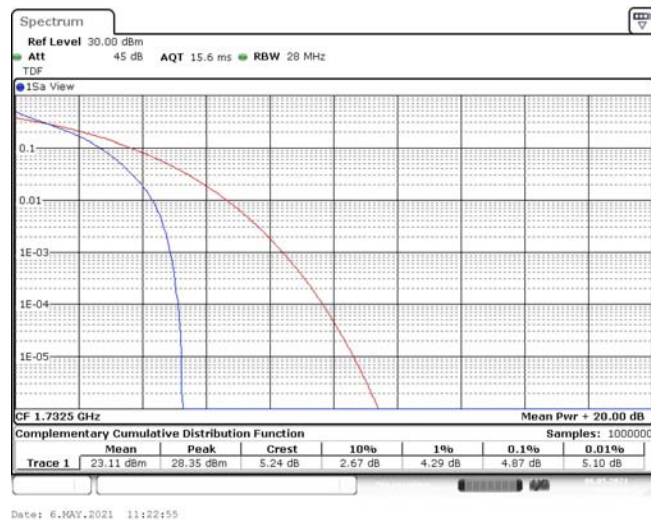


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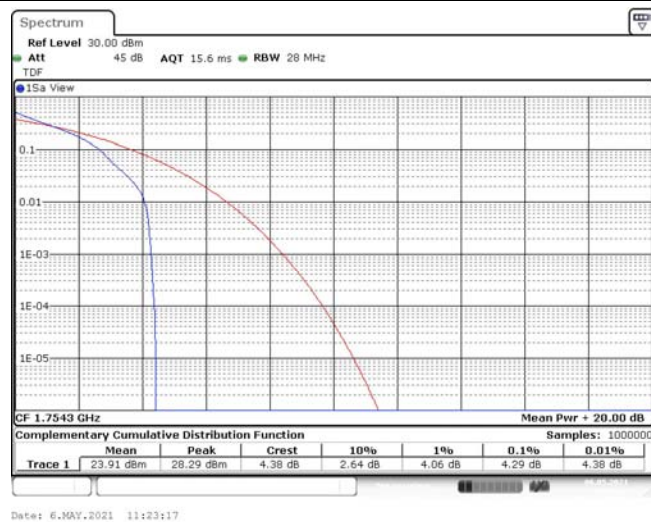




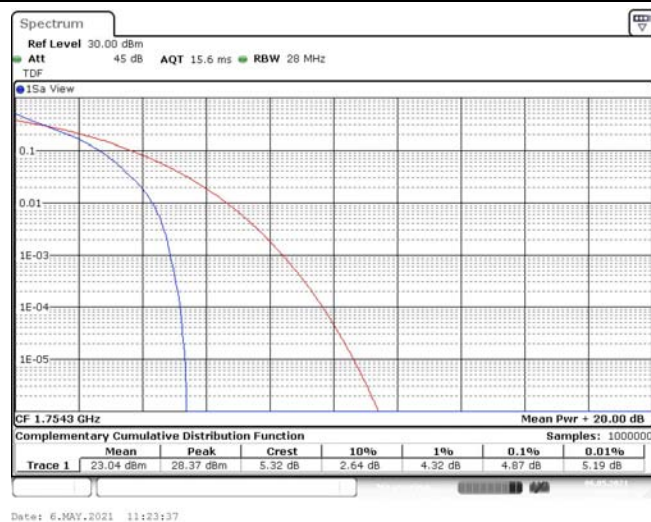
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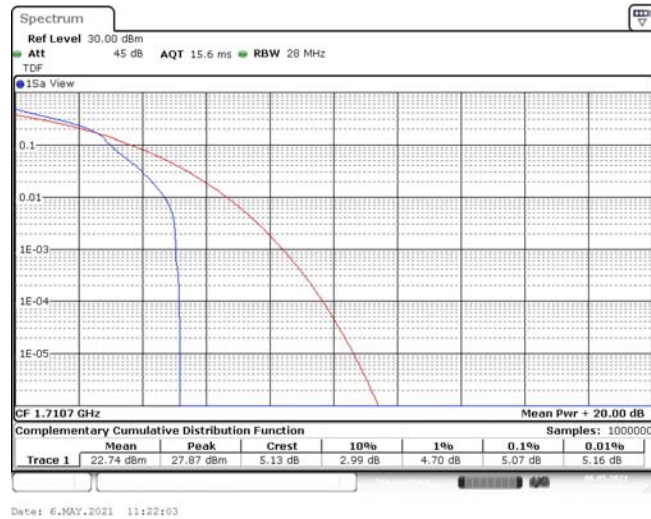
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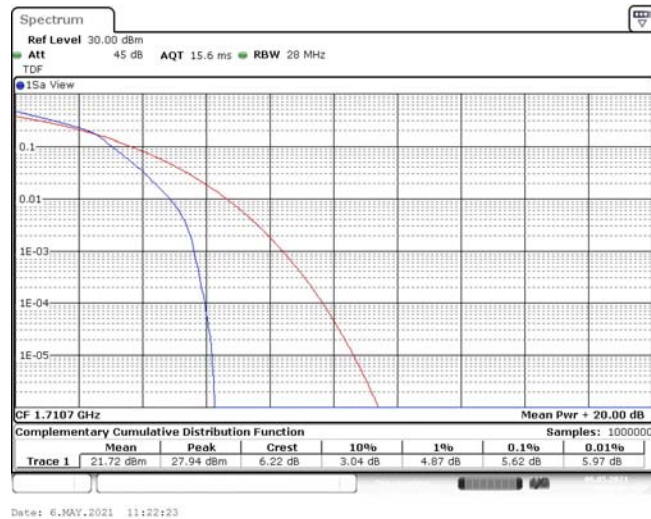
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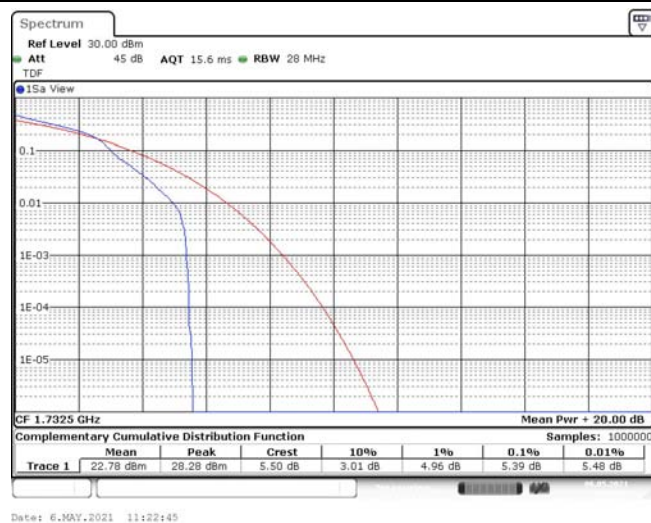
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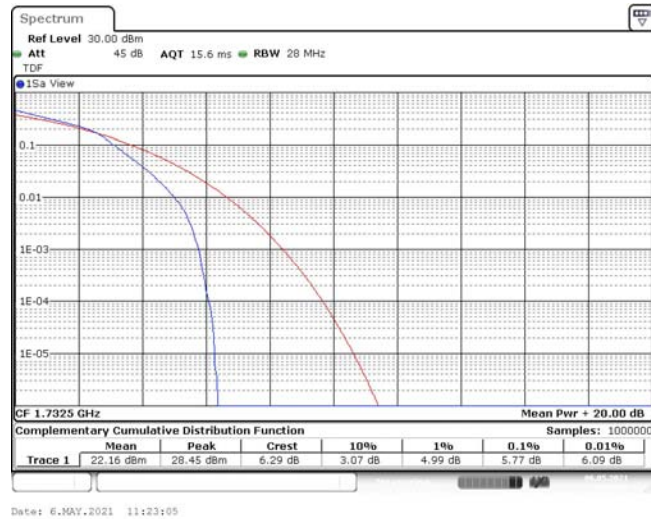
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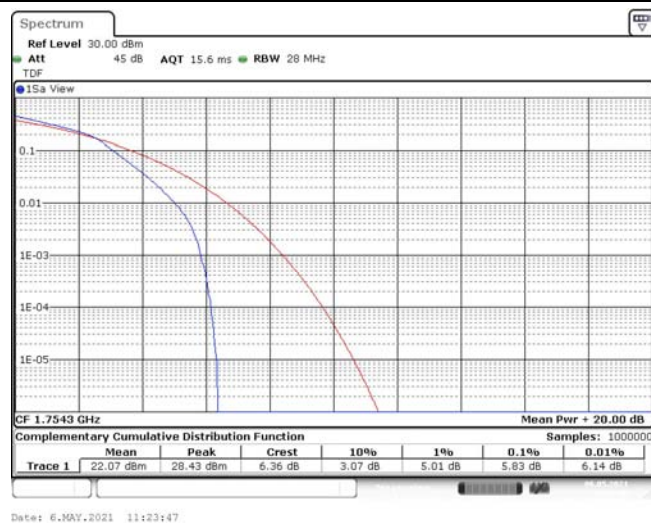
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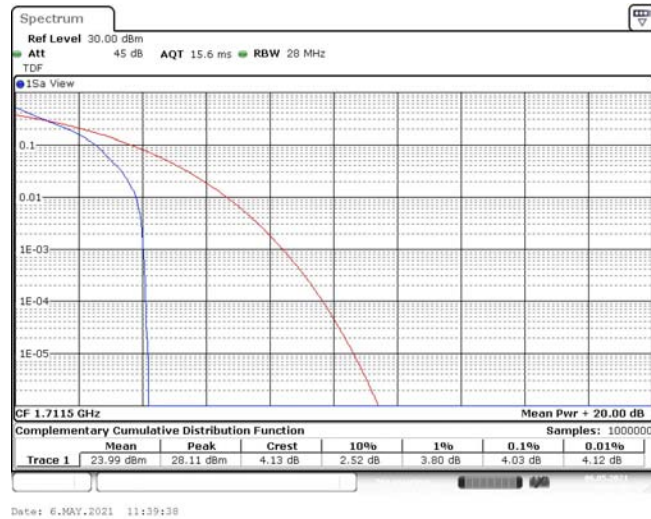
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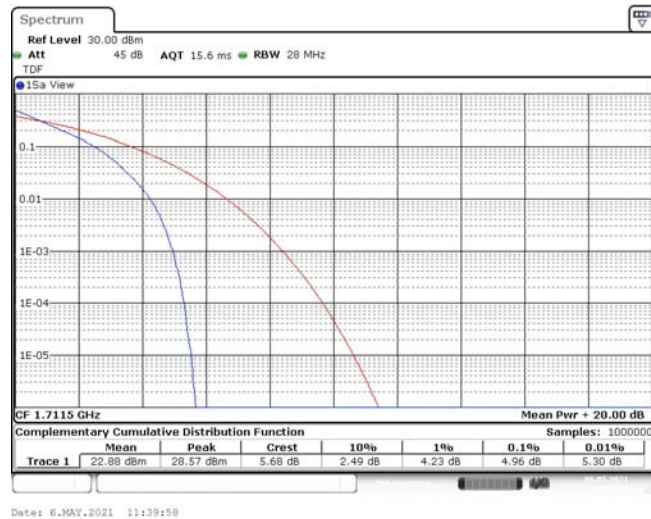
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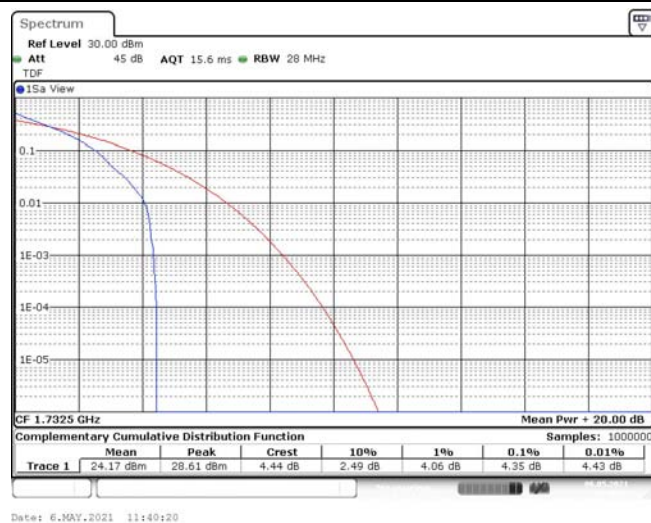
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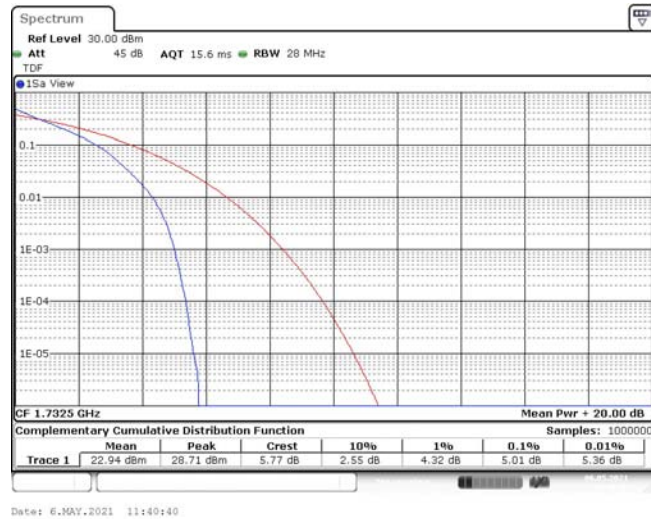
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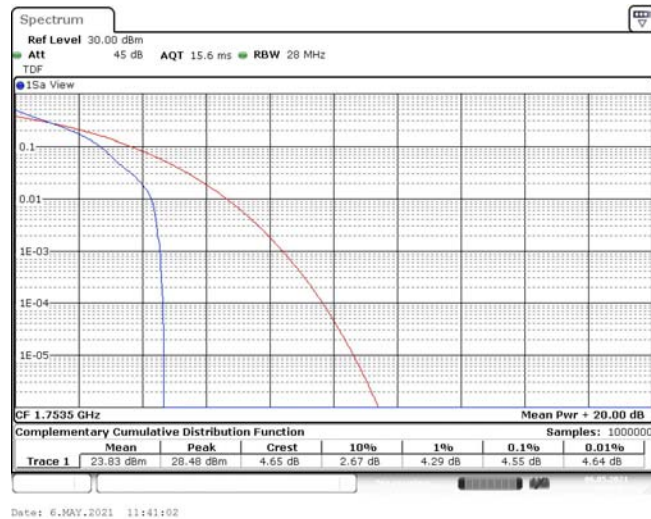
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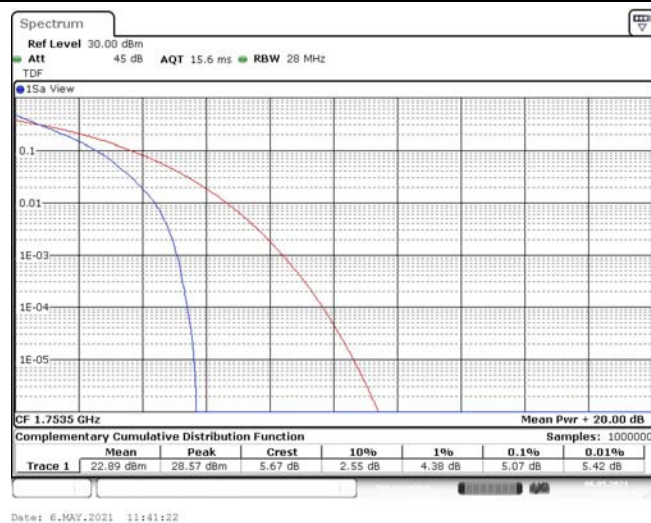
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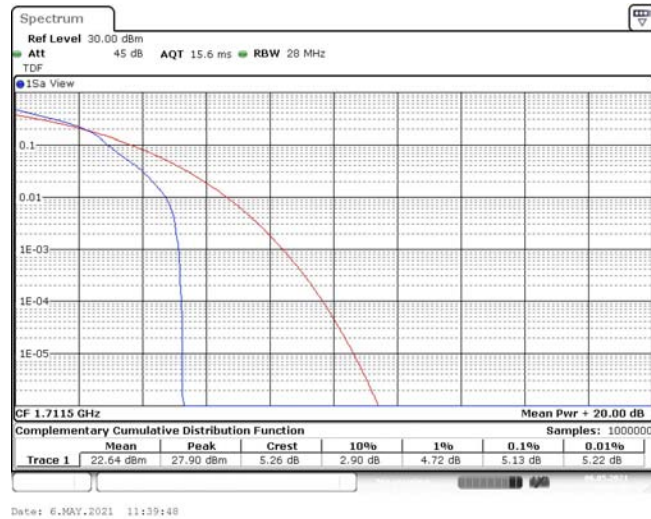
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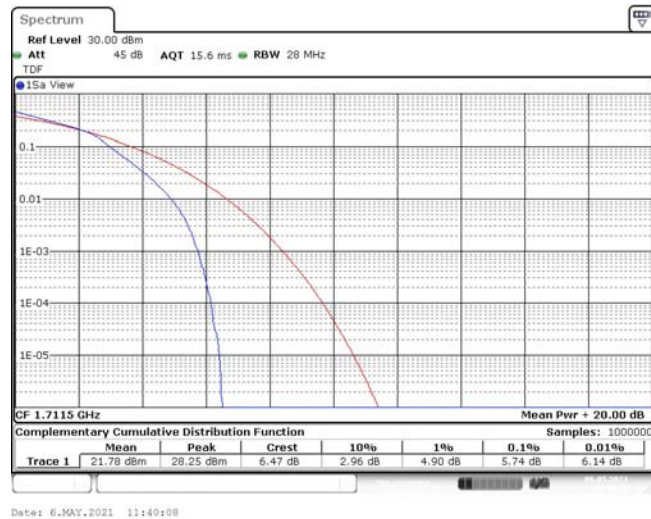
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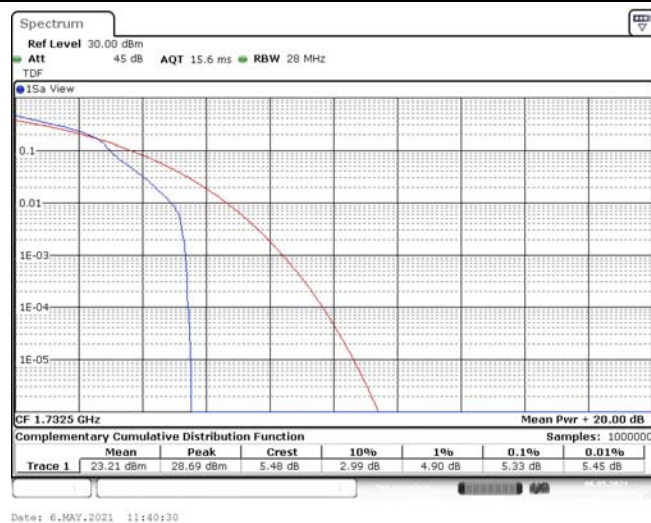
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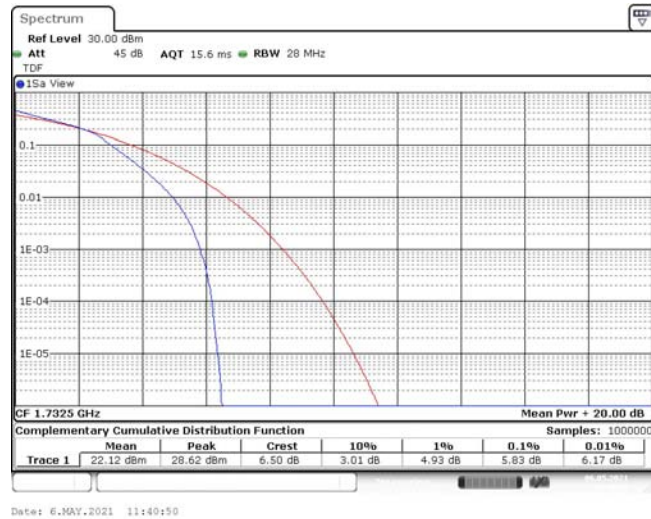
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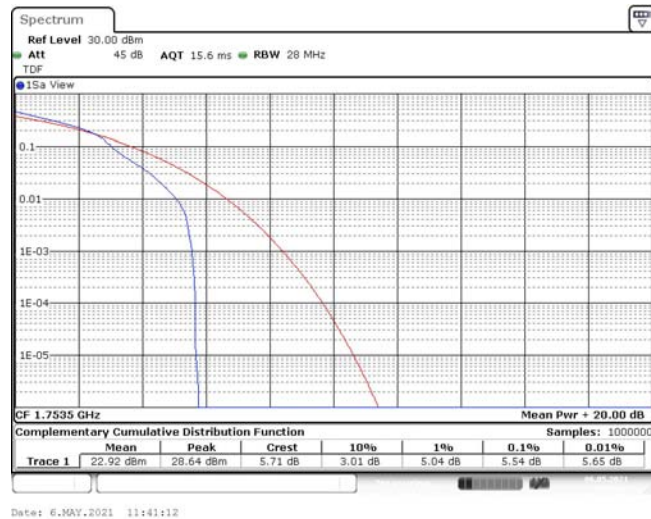
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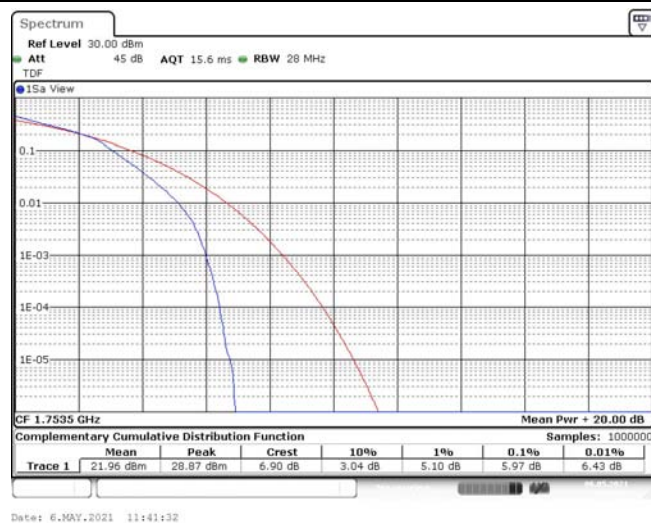
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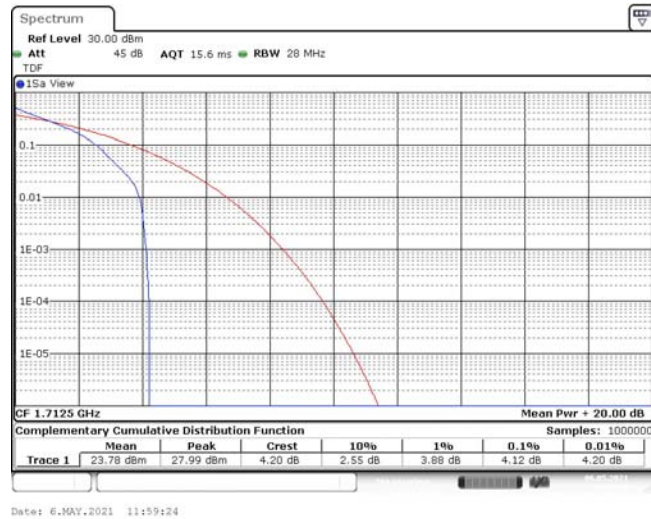
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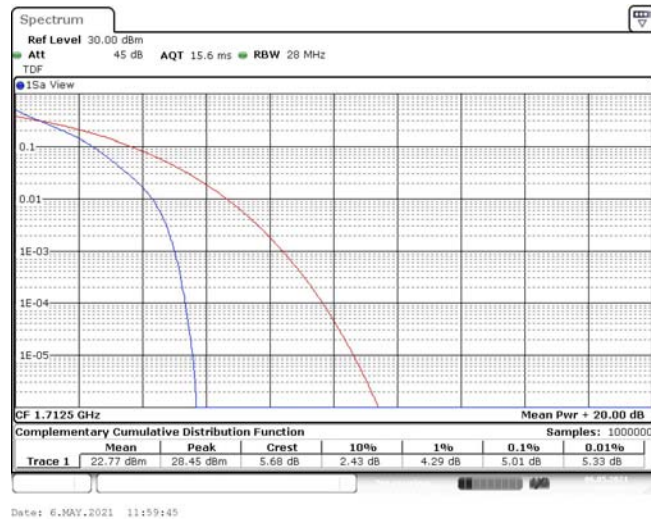
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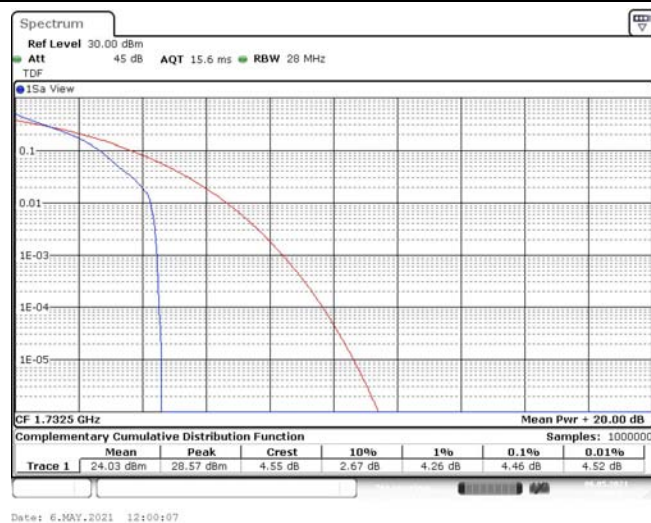
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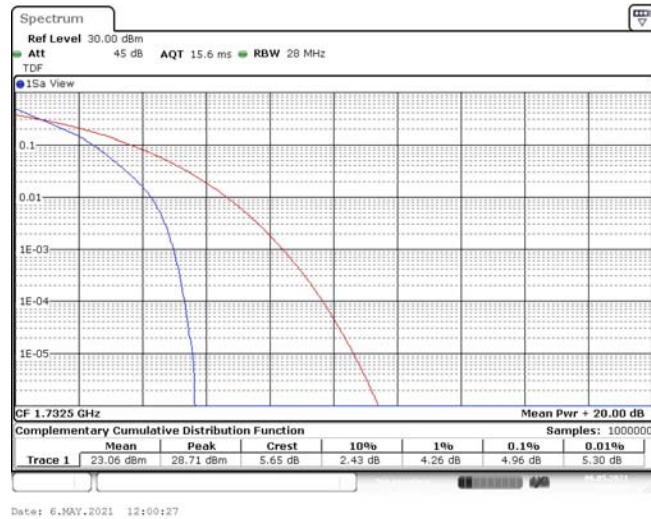
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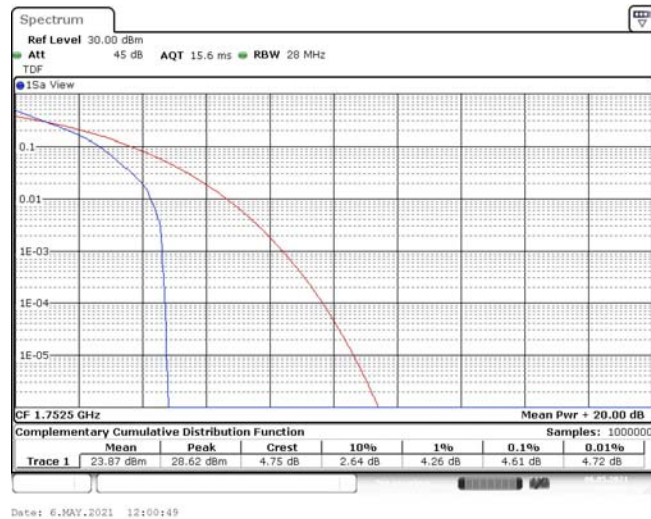
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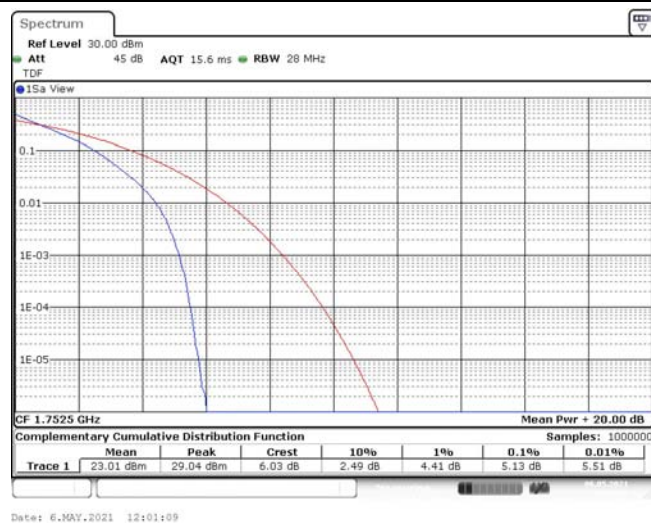
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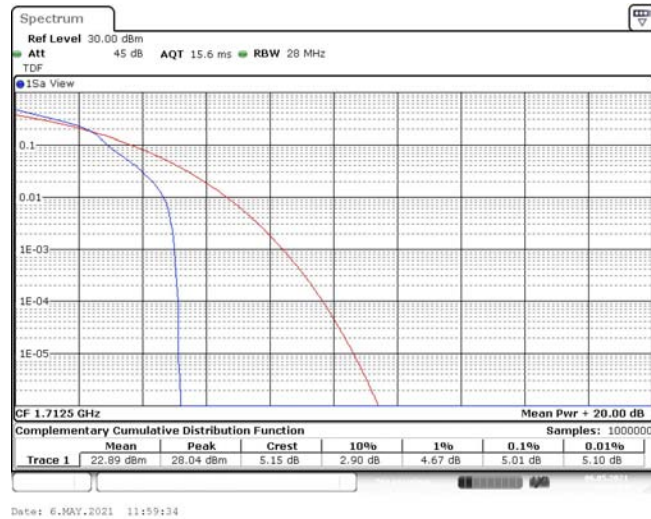
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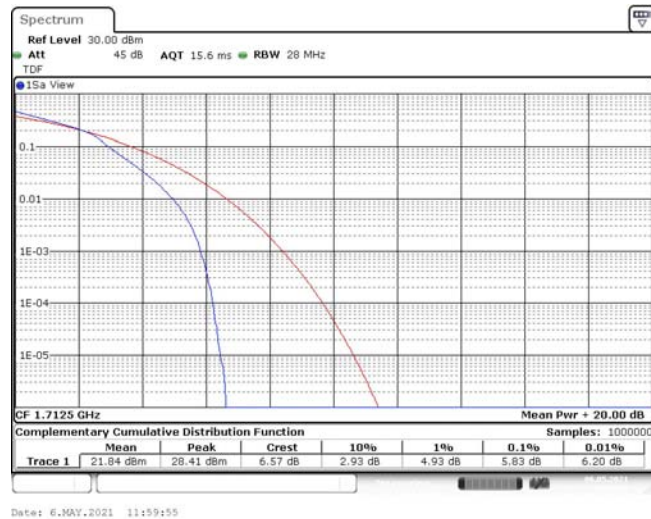
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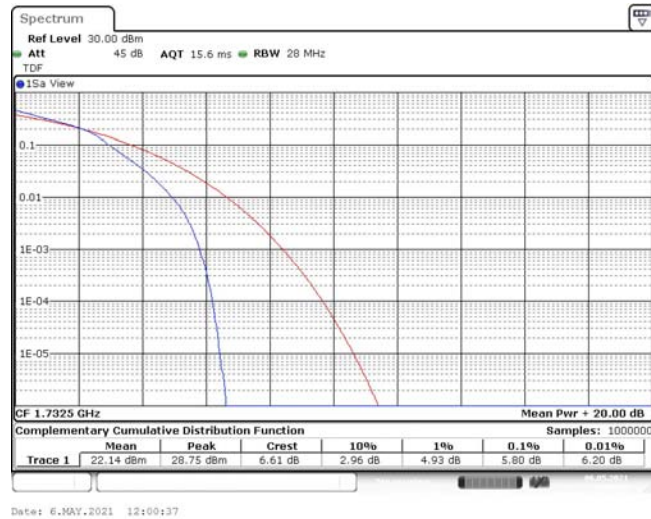
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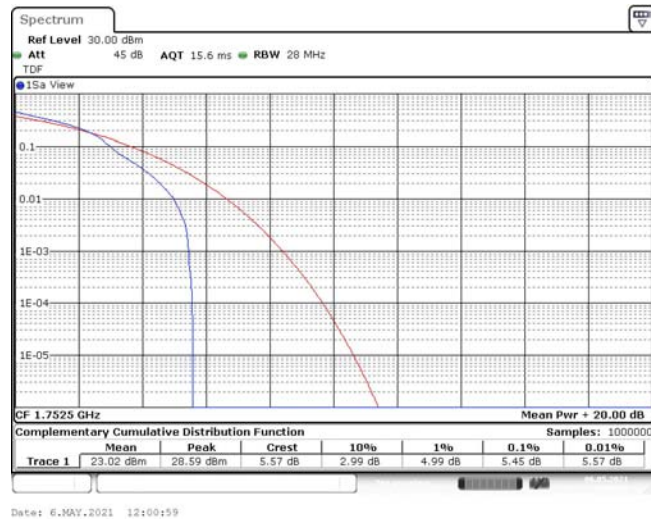
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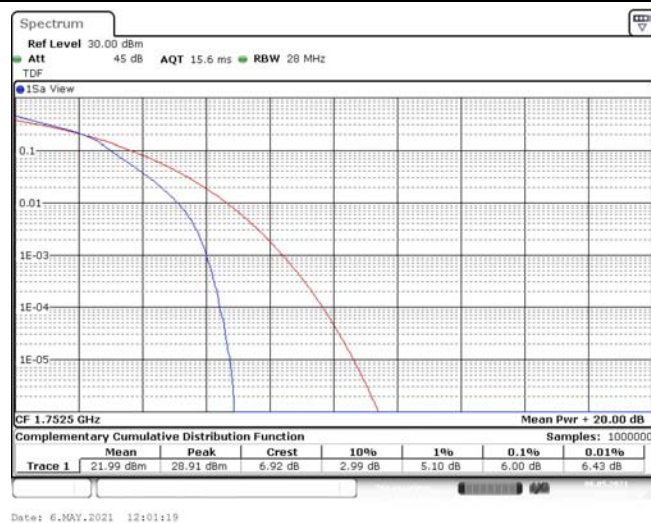
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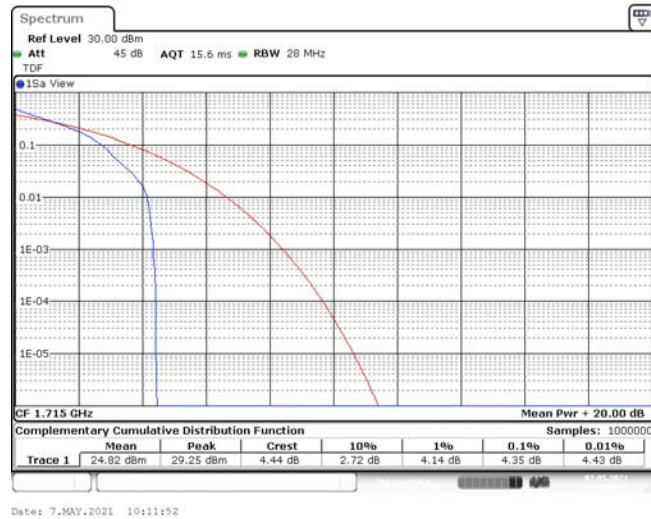
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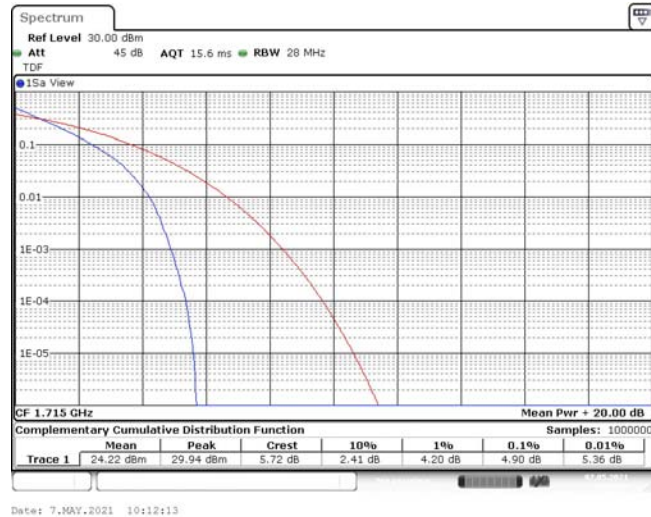
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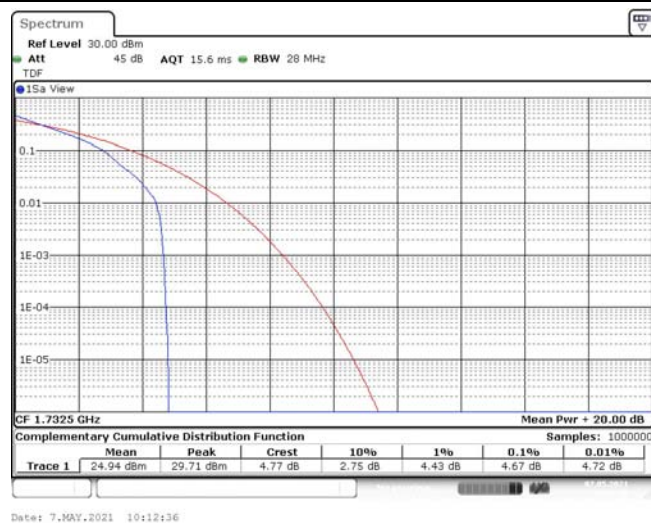
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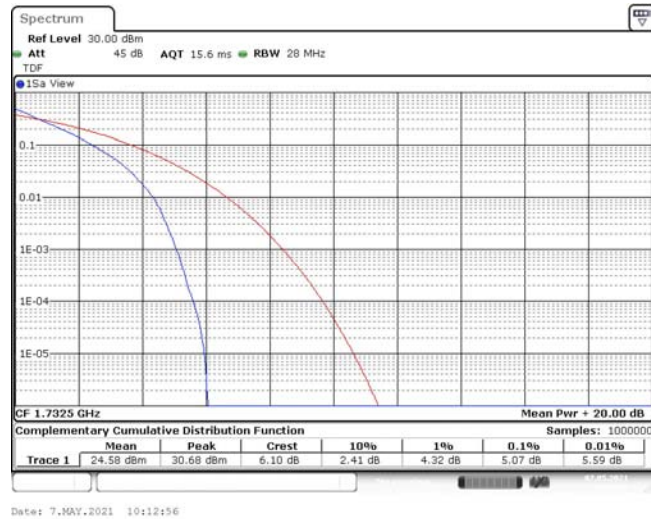
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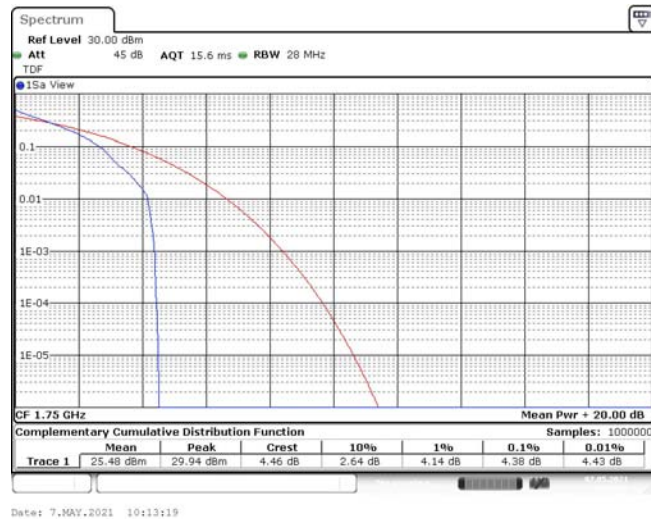
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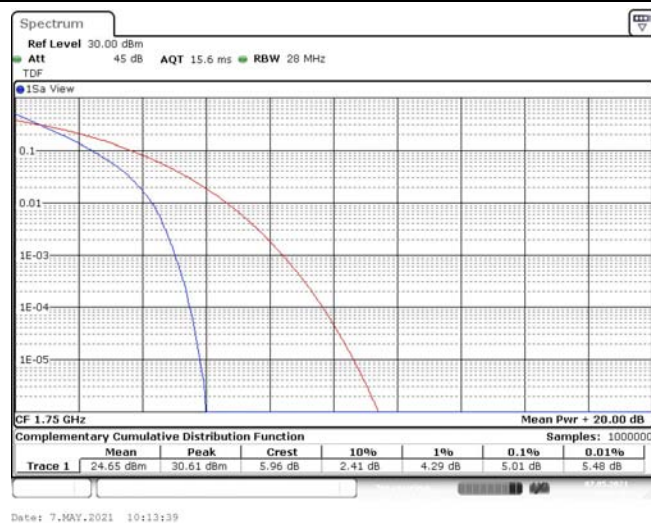
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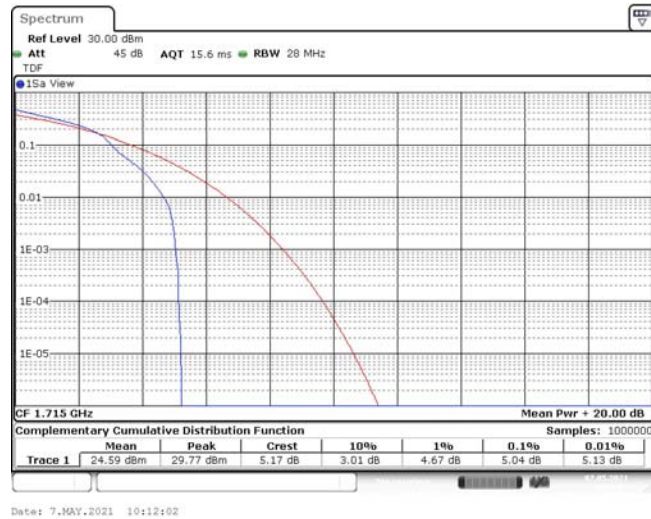
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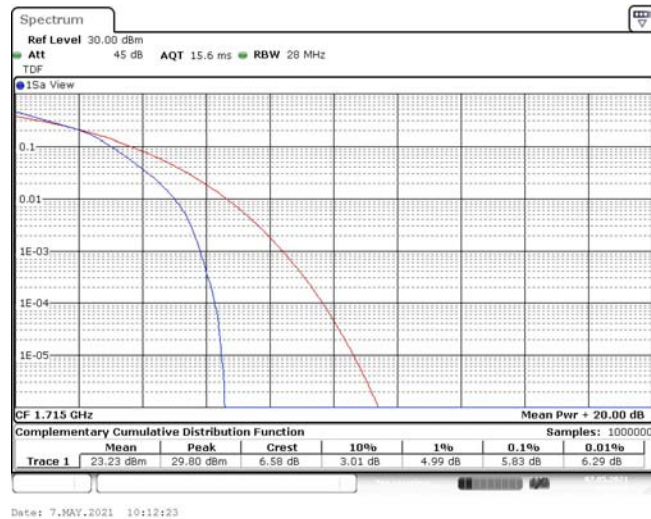
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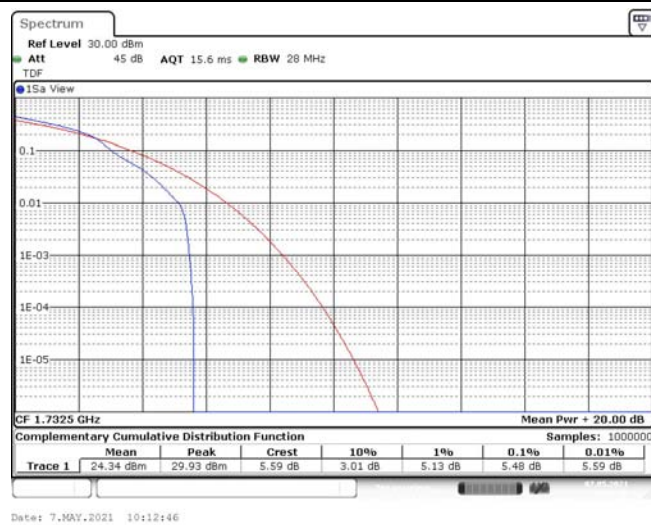
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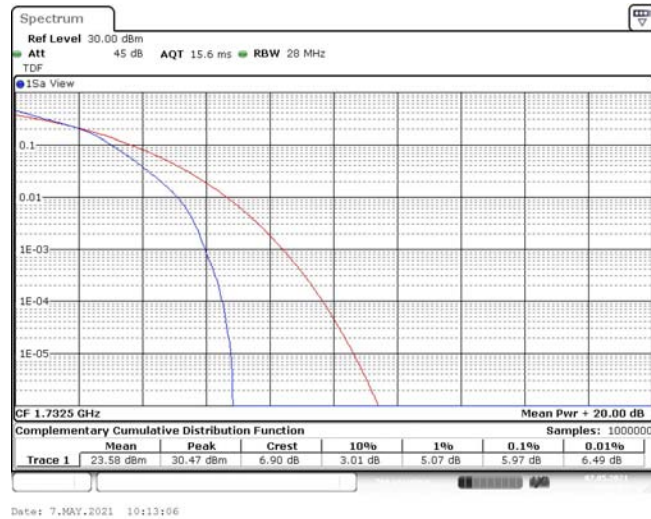
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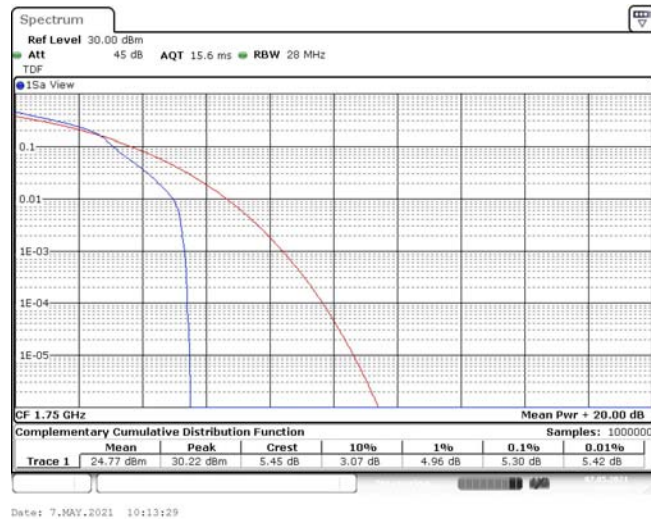
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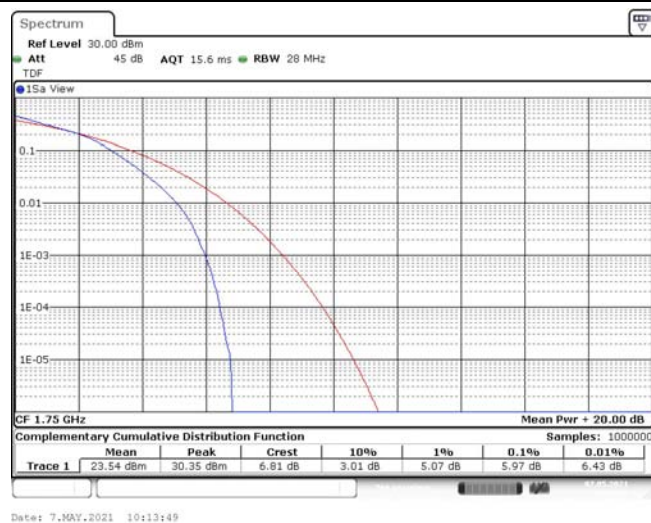
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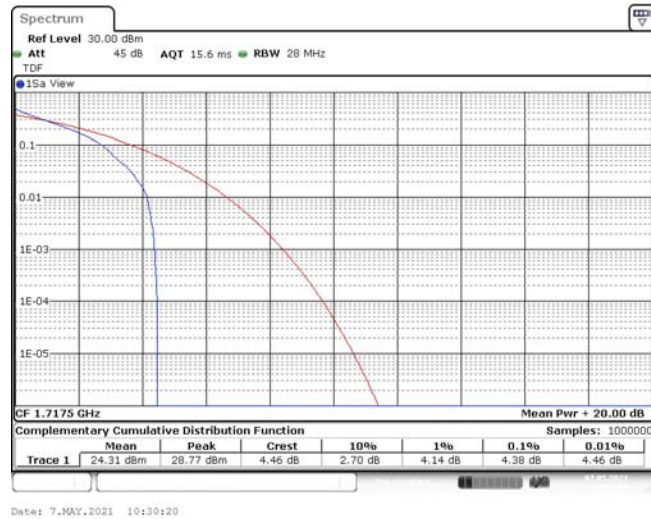
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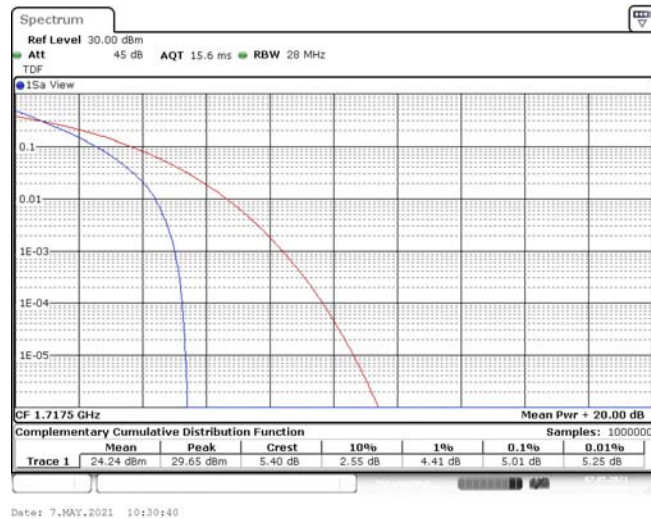
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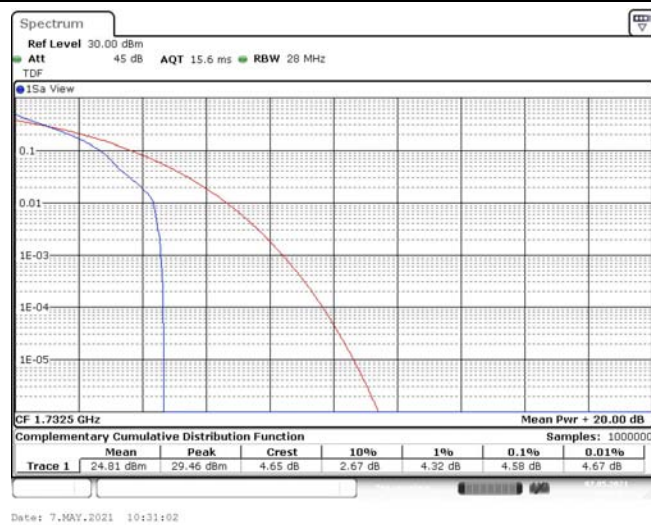
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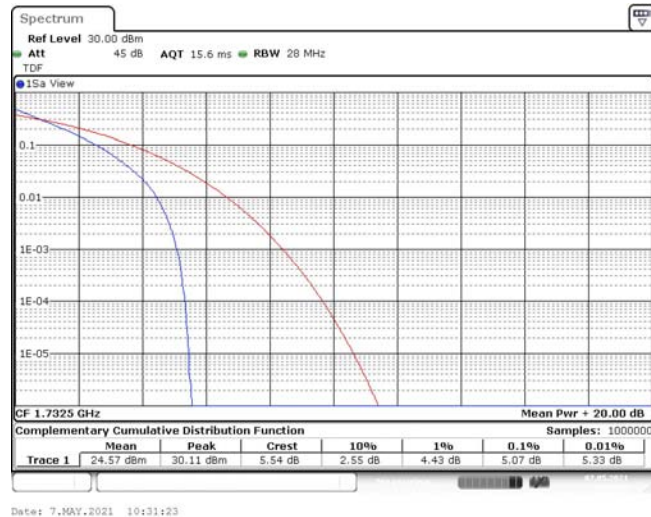
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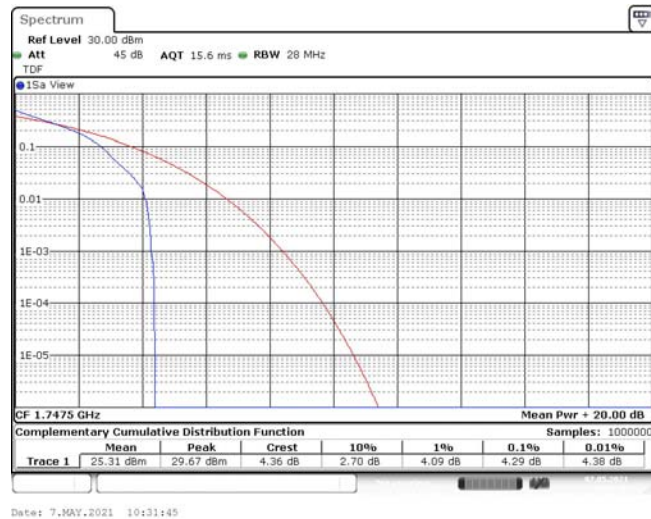
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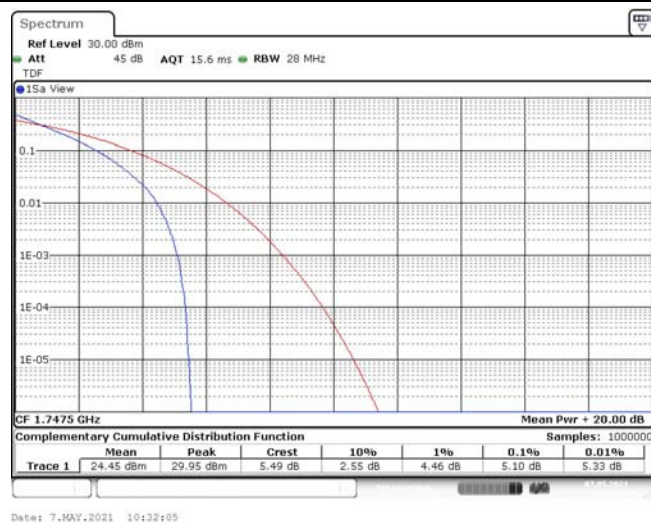
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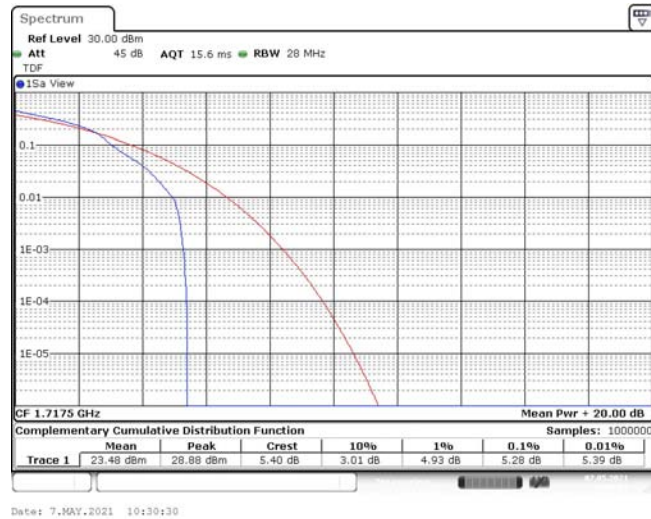
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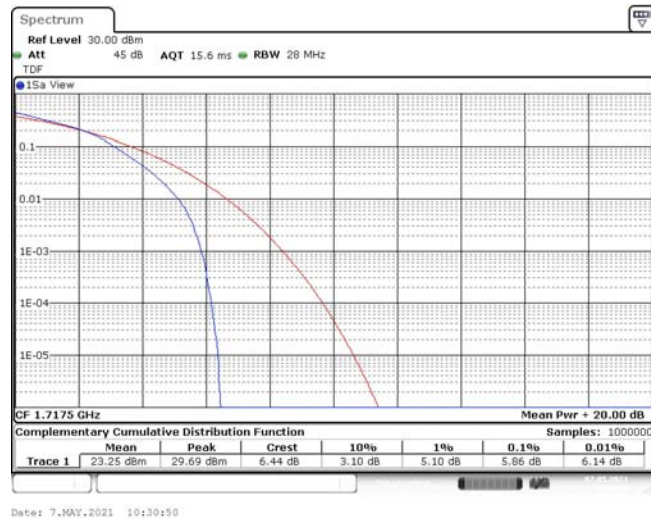
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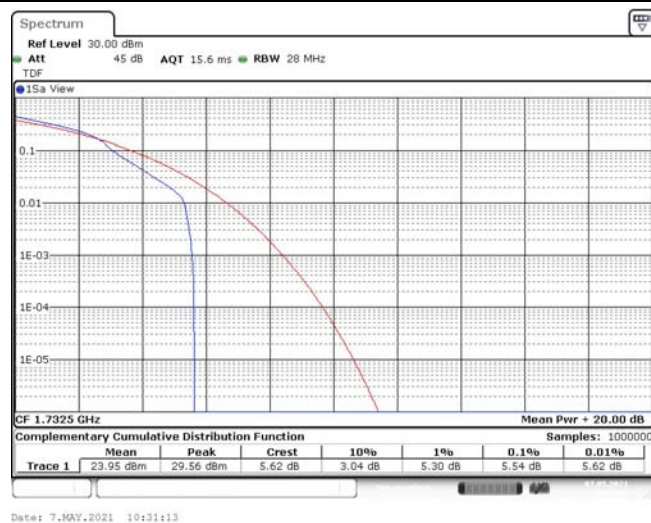
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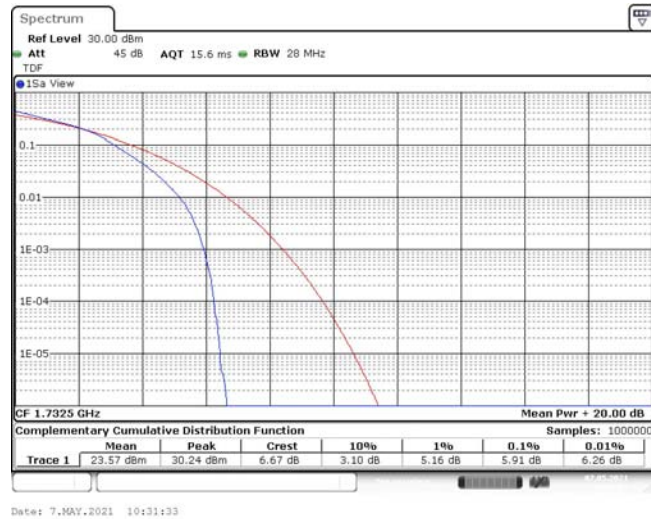
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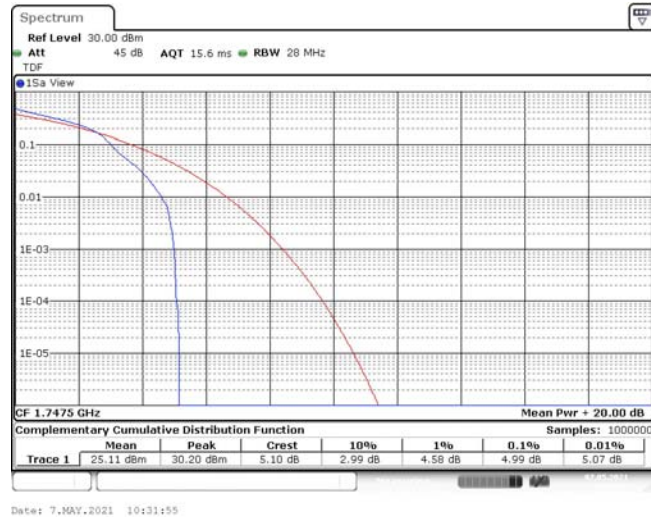
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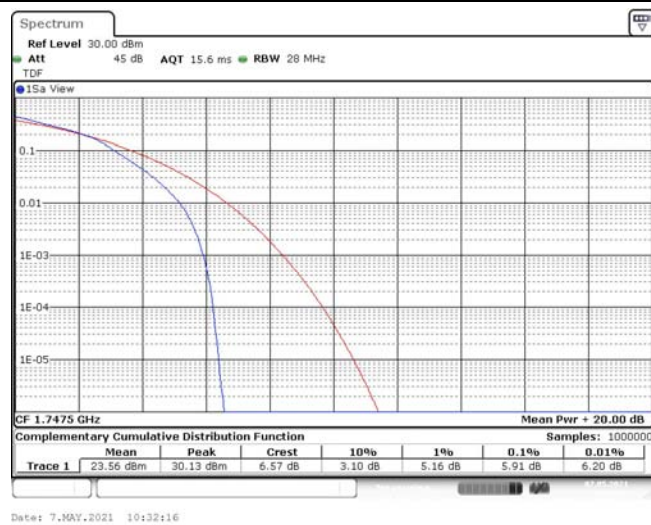
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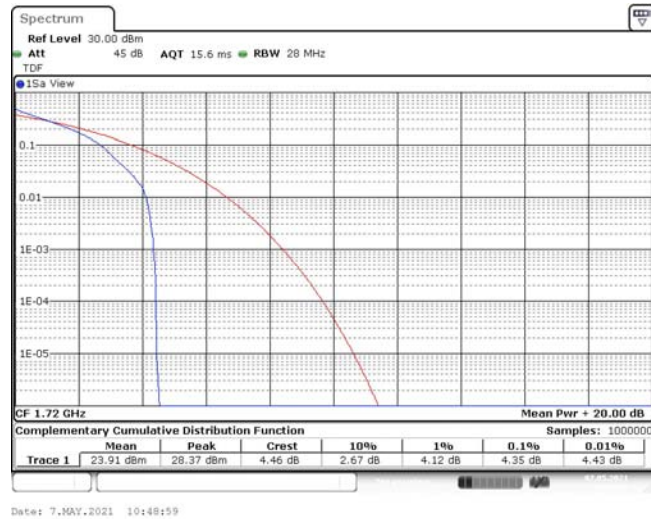
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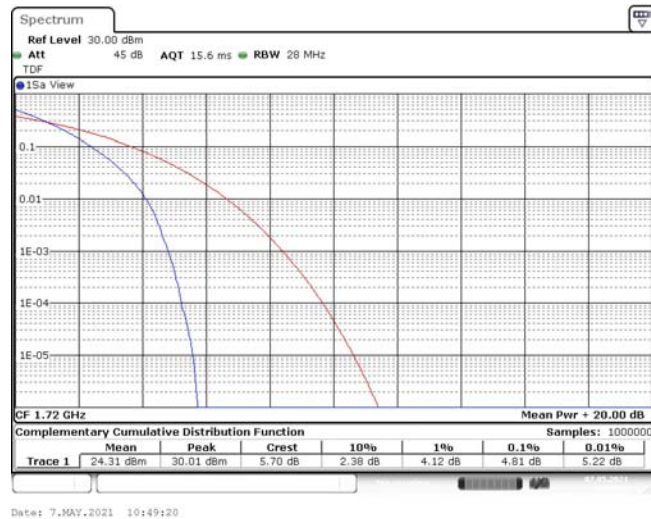
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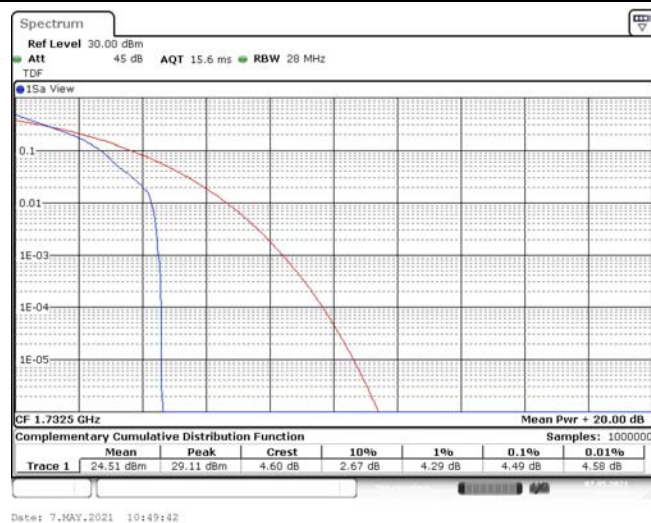
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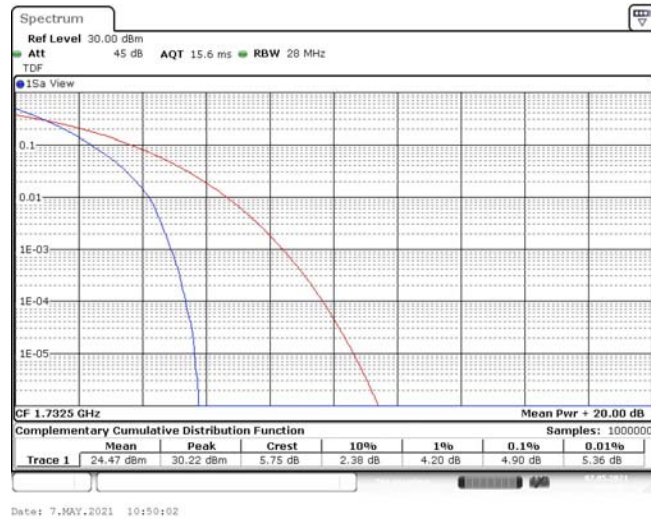
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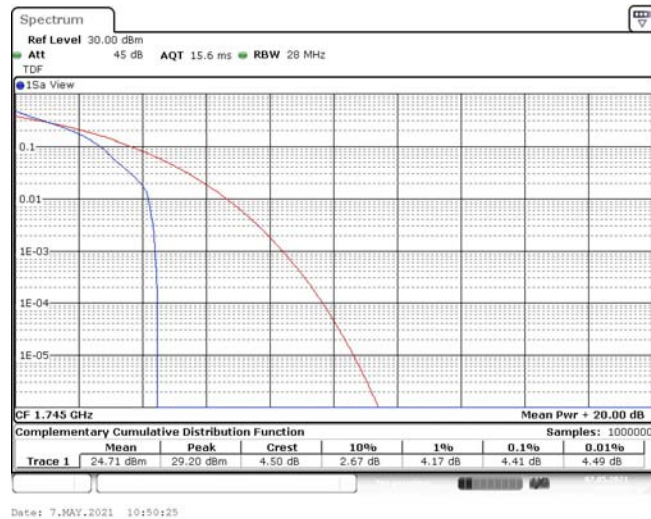
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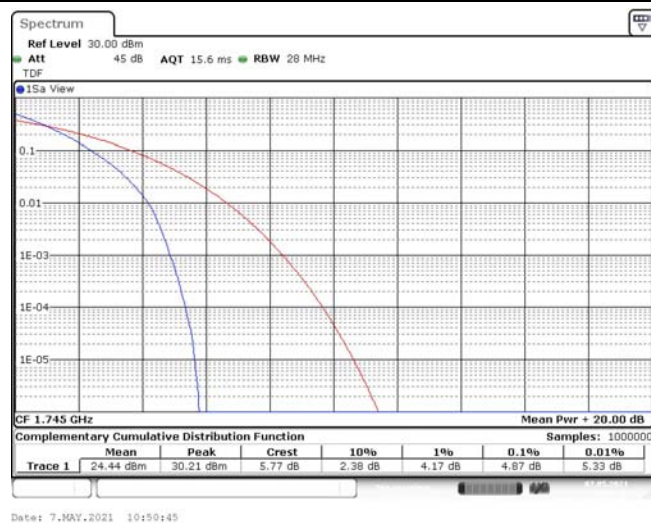
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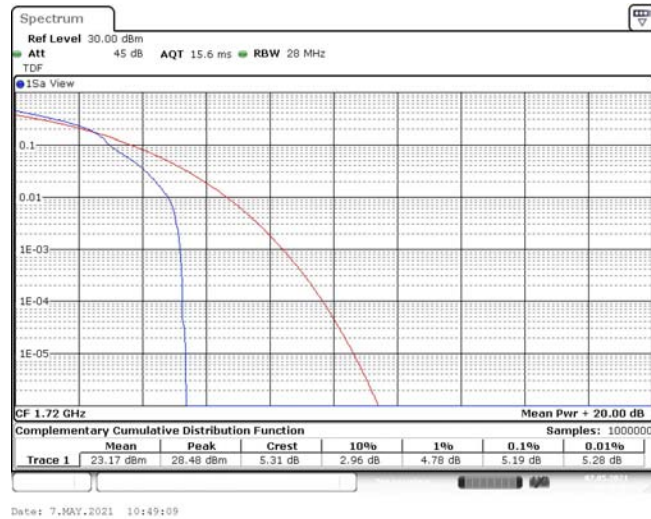
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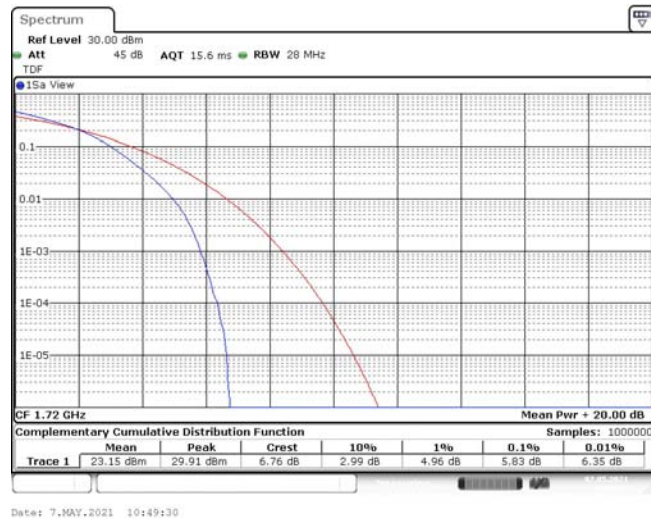
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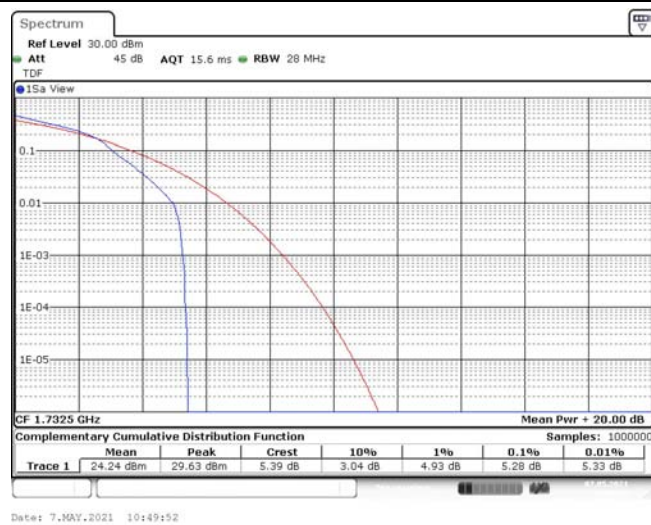
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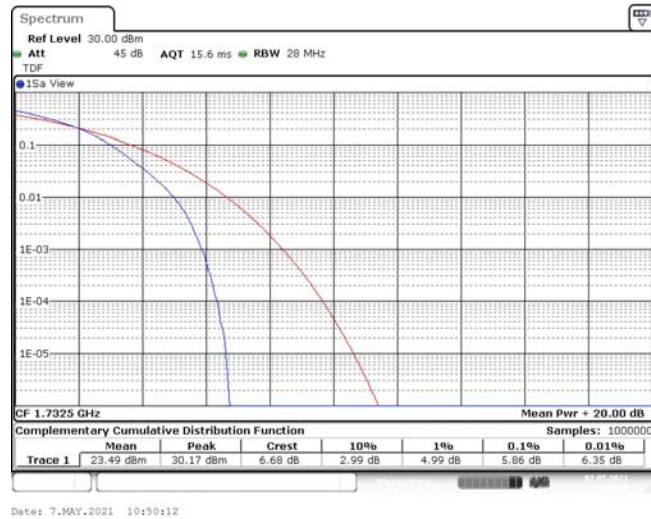
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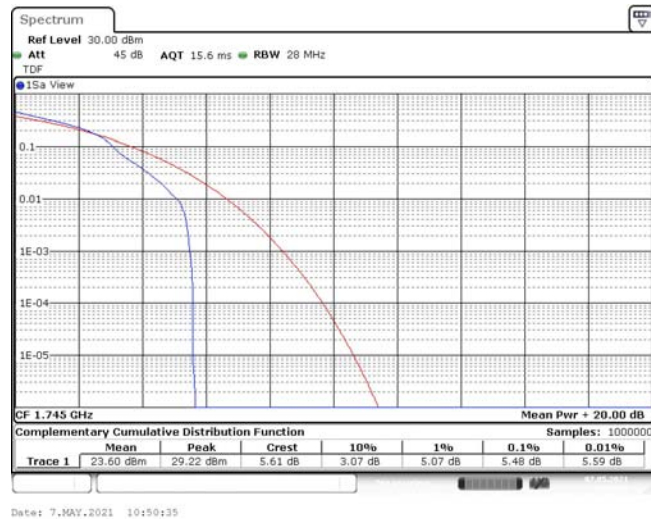
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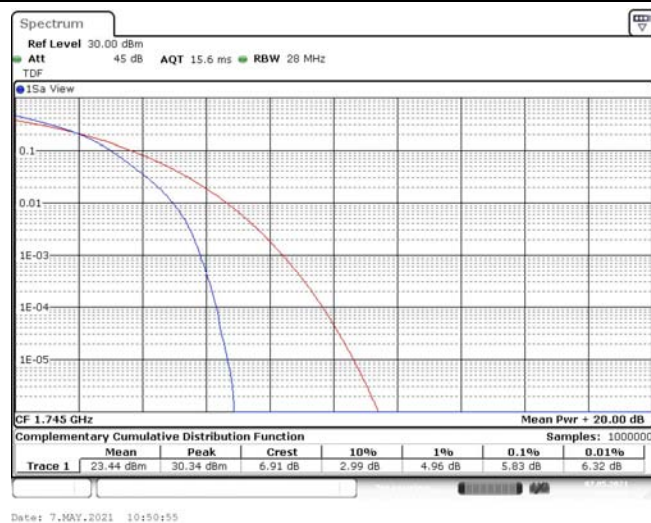
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Band4-20MHz-16QAM-20300-1RB#0



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





Appendix C: 26dB Bandwidth and Occupied Bandwidth

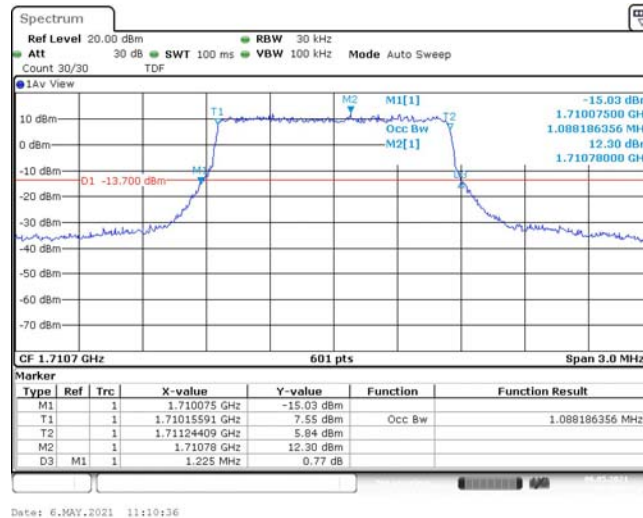
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth(MHz)	26dB Bandwidth(MHz)	Verdict
Band4	1.4MHz	QPSK	19957	6RB#0	1.088	1.225	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	1.088	1.250	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	1.093	1.250	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	1.088	1.235	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	1.093	1.220	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	1.088	1.240	PASS
Band4	3MHz	QPSK	19965	15RB#0	2.696	2.870	PASS
Band4	3MHz	QPSK	20175	15RB#0	2.696	2.900	PASS
Band4	3MHz	QPSK	20385	15RB#0	2.696	2.870	PASS
Band4	3MHz	16QAM	19965	15RB#0	2.696	2.870	PASS
Band4	3MHz	16QAM	20175	15RB#0	2.696	2.870	PASS
Band4	3MHz	16QAM	20385	15RB#0	2.686	2.870	PASS
Band4	5MHz	QPSK	19975	25RB#0	4.505	4.780	PASS
Band4	5MHz	QPSK	20175	25RB#0	4.496	4.800	PASS
Band4	5MHz	QPSK	20375	25RB#0	4.505	4.800	PASS
Band4	5MHz	16QAM	19975	25RB#0	4.496	4.790	PASS
Band4	5MHz	16QAM	20175	25RB#0	4.515	4.780	PASS
Band4	5MHz	16QAM	20375	25RB#0	4.505	4.780	PASS
Band4	10MHz	QPSK	20000	50RB#0	8.985	9.533	PASS
Band4	10MHz	QPSK	20175	50RB#0	8.952	9.533	PASS
Band4	10MHz	QPSK	20350	50RB#0	8.952	9.533	PASS
Band4	10MHz	16QAM	20000	50RB#0	8.918	9.533	PASS
Band4	10MHz	16QAM	20175	50RB#0	8.985	9.533	PASS
Band4	10MHz	16QAM	20350	50RB#0	8.952	9.533	PASS
Band4	15MHz	QPSK	20025	75RB#0	13.428	14.300	PASS
Band4	15MHz	QPSK	20175	75RB#0	13.428	14.300	PASS
Band4	15MHz	QPSK	20325	75RB#0	13.428	14.300	PASS
Band4	15MHz	16QAM	20025	75RB#0	13.378	14.300	PASS
Band4	15MHz	16QAM	20175	75RB#0	13.428	14.300	PASS
Band4	15MHz	16QAM	20325	75RB#0	13.428	14.300	PASS
Band4	20MHz	QPSK	20050	100RB#0	17.970	19.333	PASS
Band4	20MHz	QPSK	20175	100RB#0	17.970	19.333	PASS
Band4	20MHz	QPSK	20300	100RB#0	17.970	19.333	PASS
Band4	20MHz	16QAM	20050	100RB#0	17.970	19.333	PASS
Band4	20MHz	16QAM	20175	100RB#0	17.970	19.333	PASS
Band4	20MHz	16QAM	20300	100RB#0	17.970	19.267	PASS

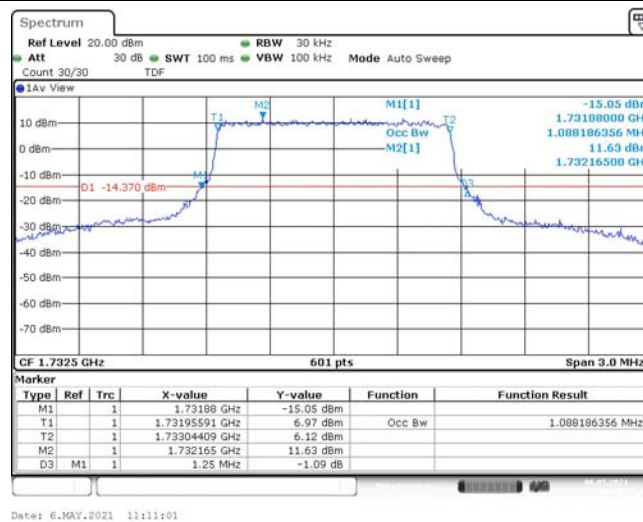


Test Graphs

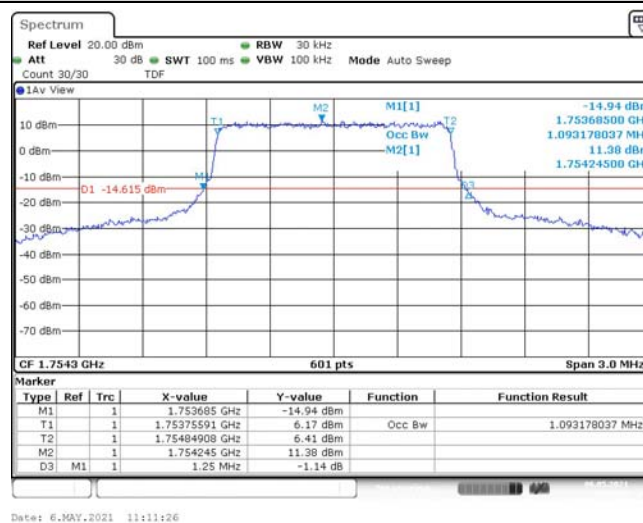
Band4-1.4MHz-QPSK-19957-6RB#0-1.088



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

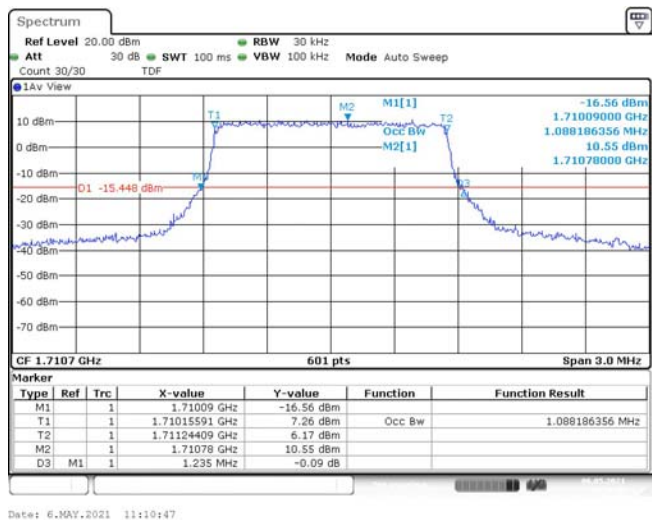


Band4-1.4MHz-QPSK-20393-6RB#0-1.093

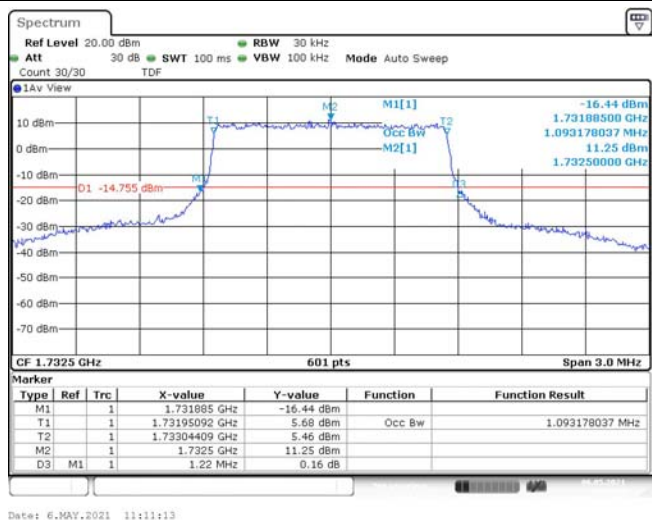




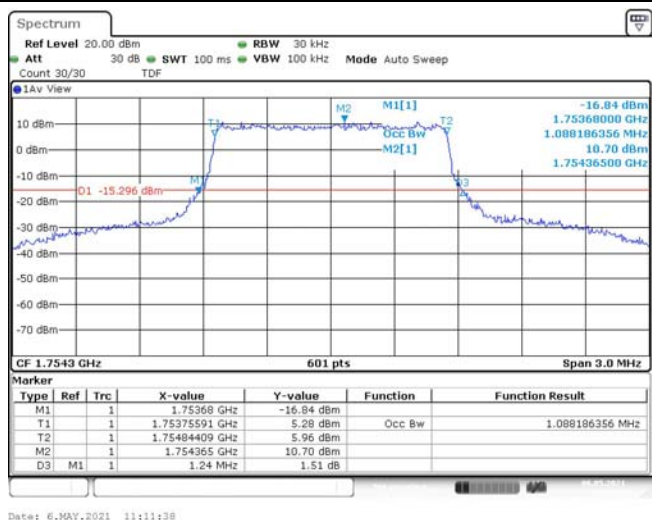
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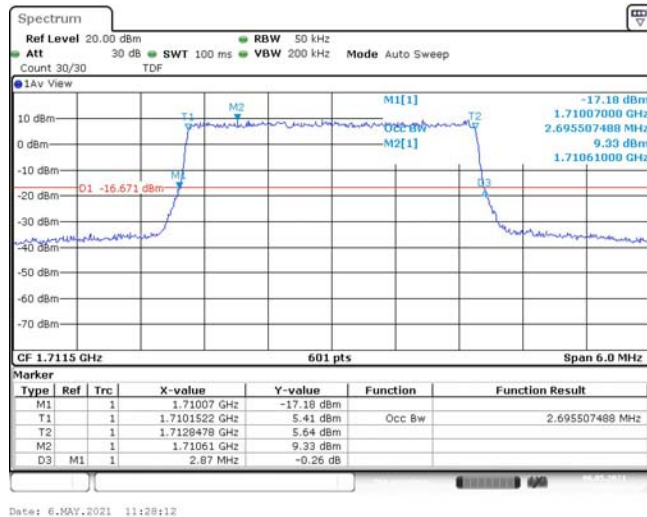
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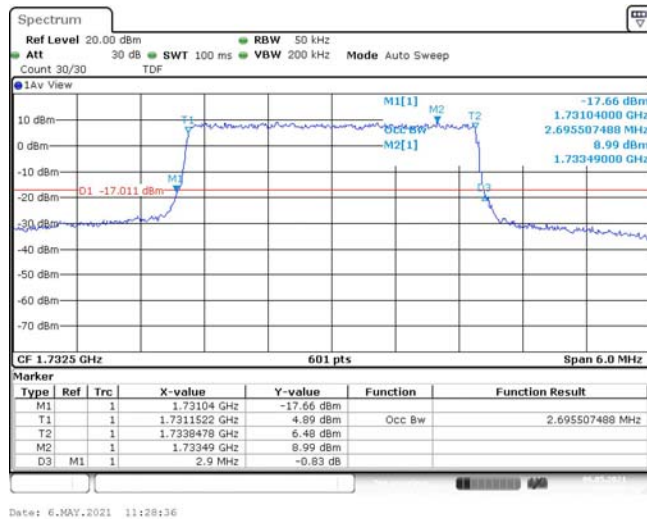
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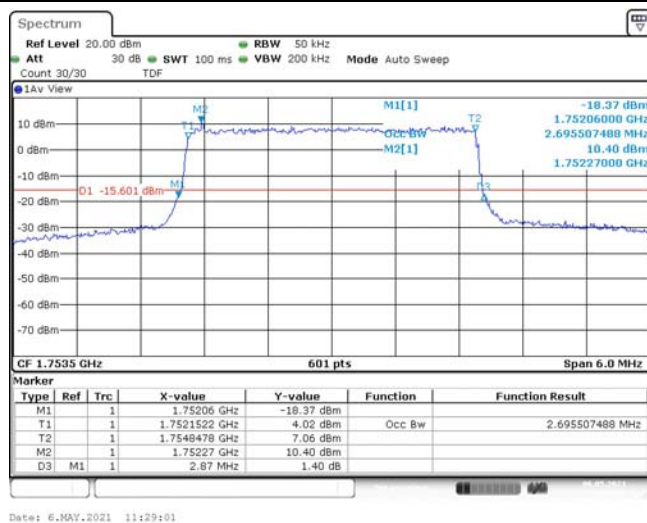
Band4-3MHz-QPSK-19965-15RB#0-2.696



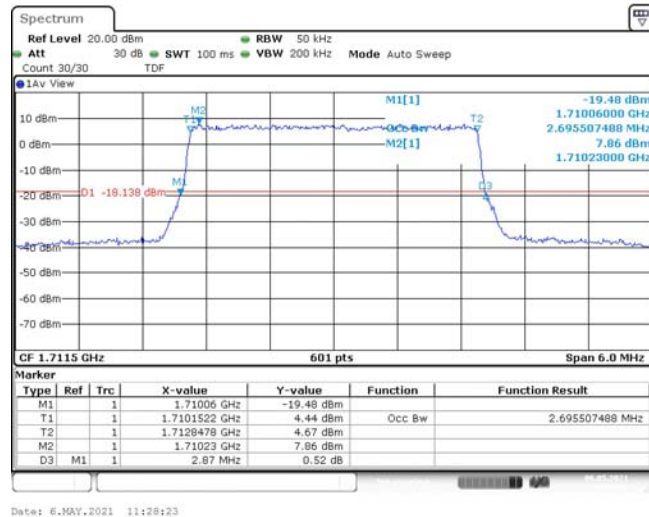
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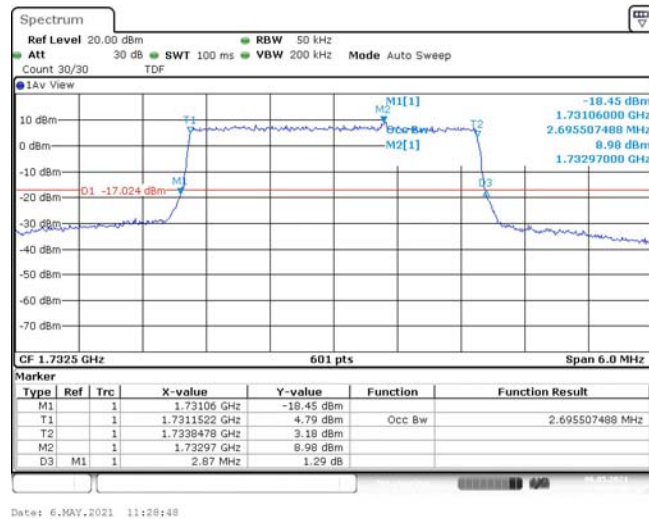
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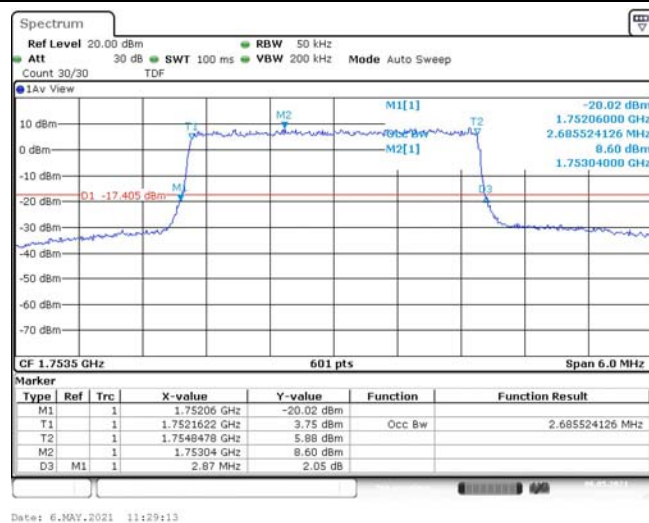
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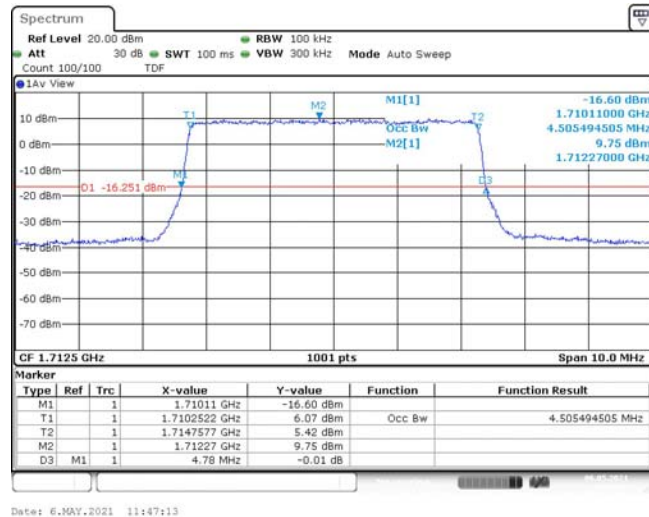
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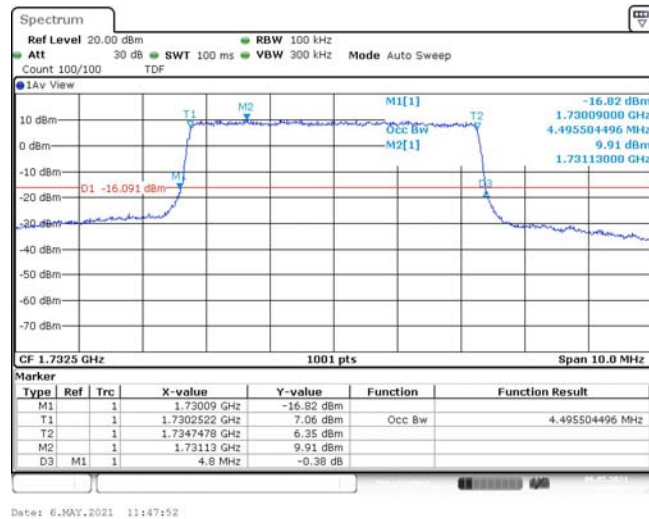
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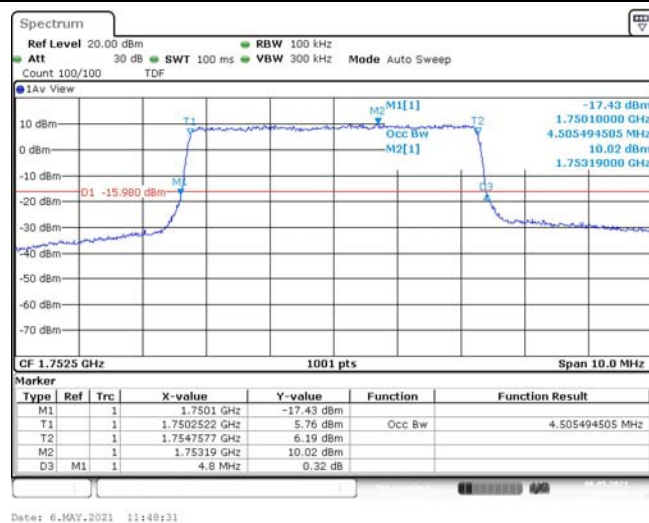
Band4-5MHz-QPSK-19975-25RB#0-4.505



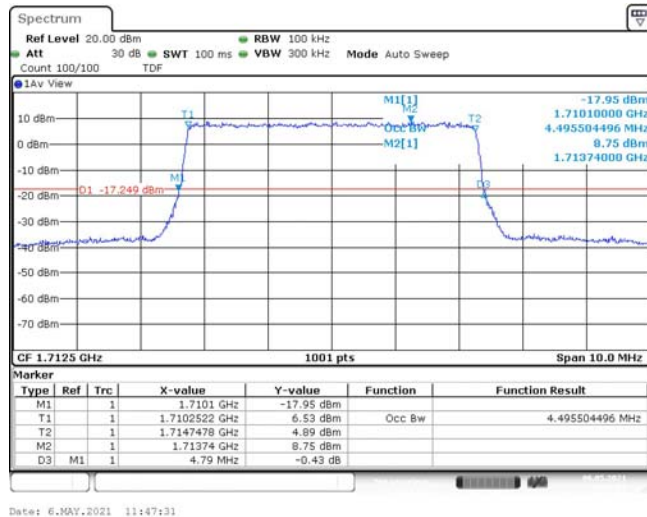
Band4-5MHz-QPSK-20175-25RB#0-4.496



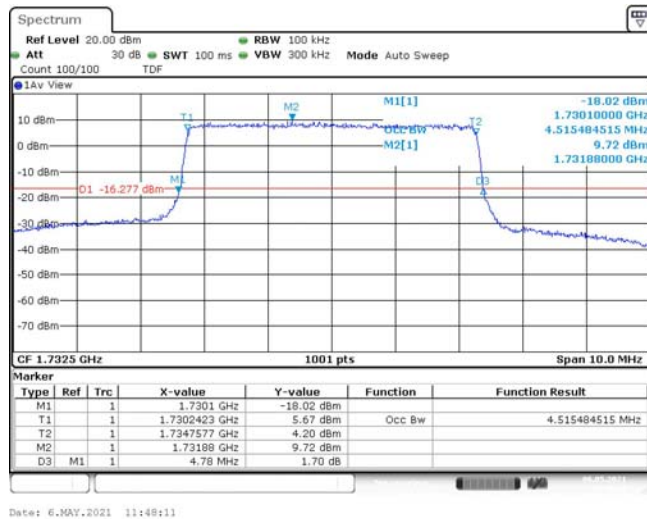
Band4-5MHz-QPSK-20375-25RB#0-4.505



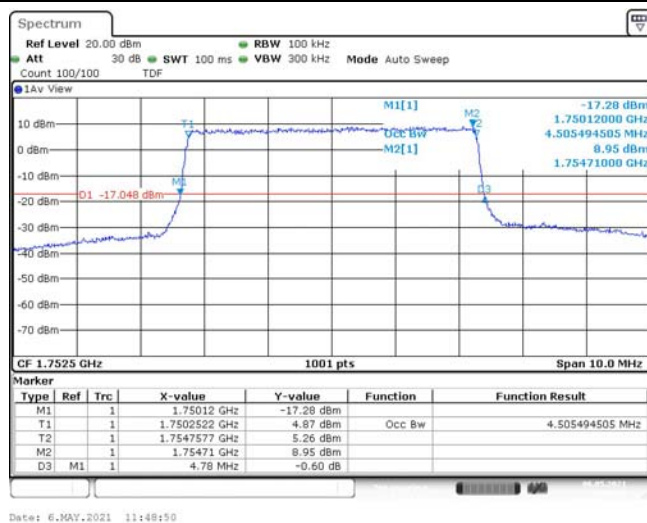
Band4-5MHz-16QAM-19975-25RB#0-4.496



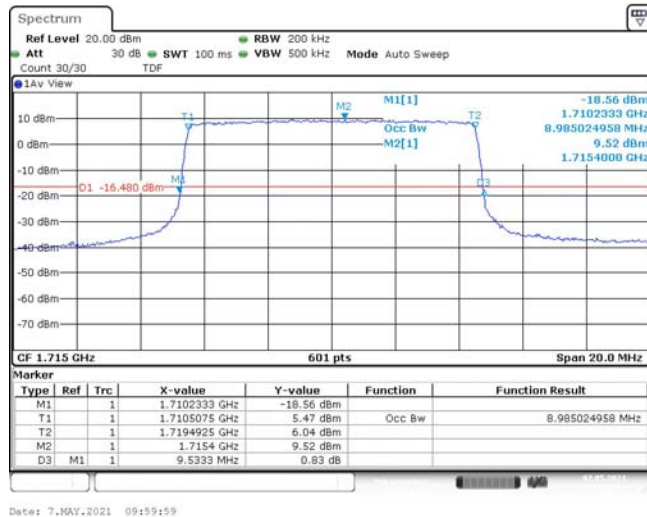
Band4-5MHz-16QAM-20175-25RB#0-4.515



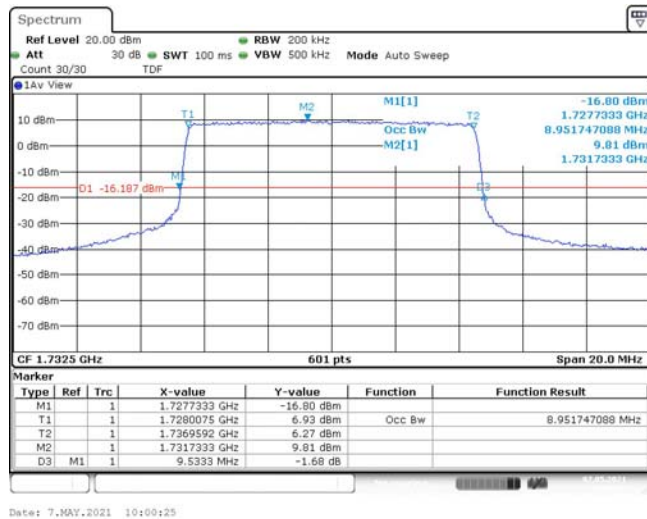
Band4-5MHz-16QAM-20375-25RB#0-4.505



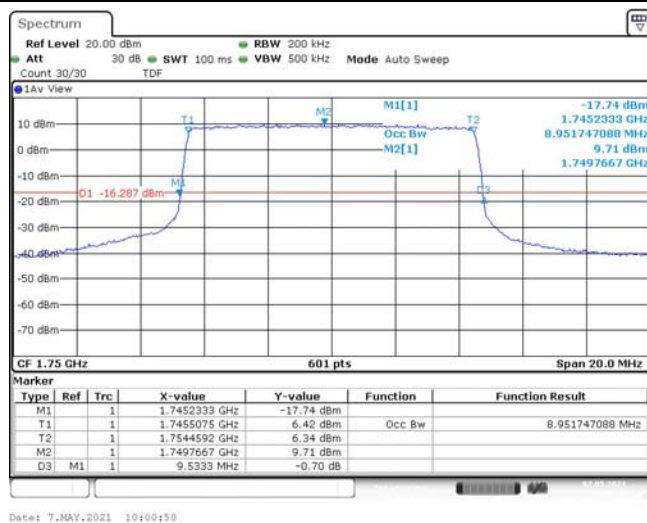
Band4-10MHz-QPSK-20000-50RB#0-8.985



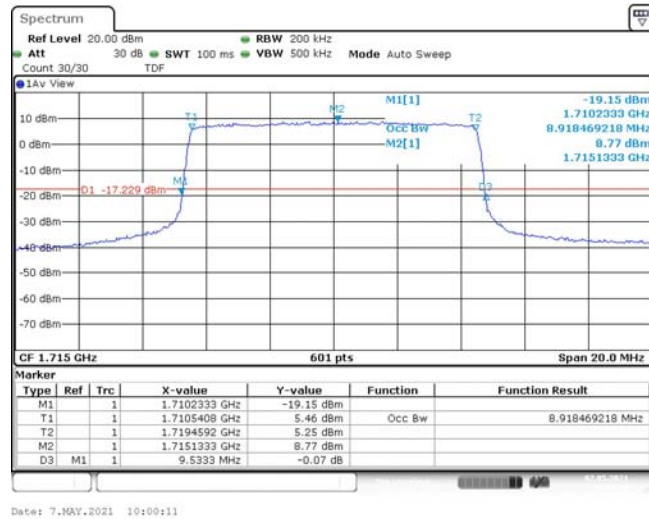
Band4-10MHz-QPSK-20175-50RB#0-8.952



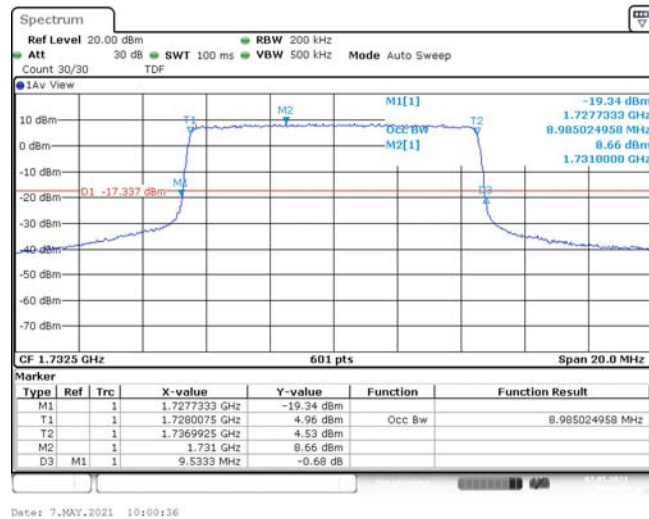
Band4-10MHz-QPSK-20350-50RB#0-8.952



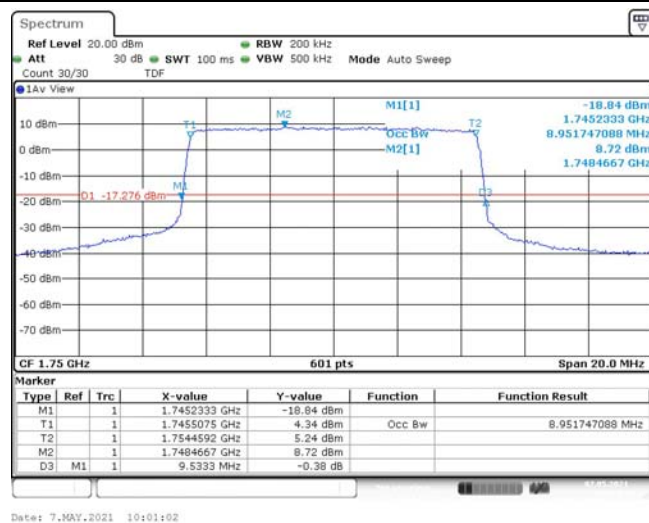
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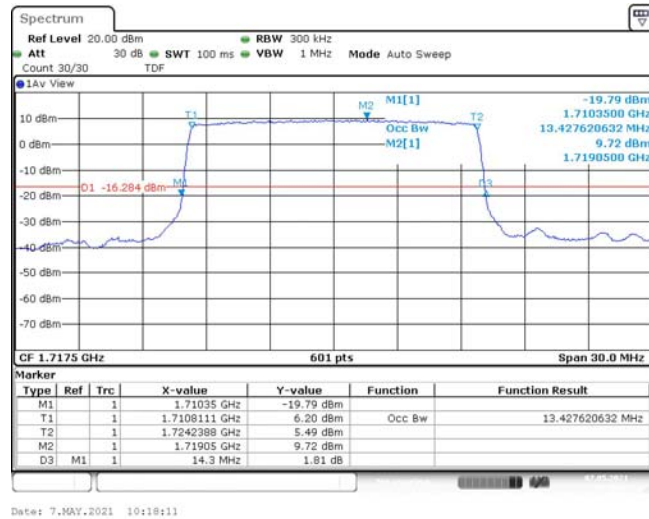
Band4-10MHz-16QAM-20175-50RB#0-8.985



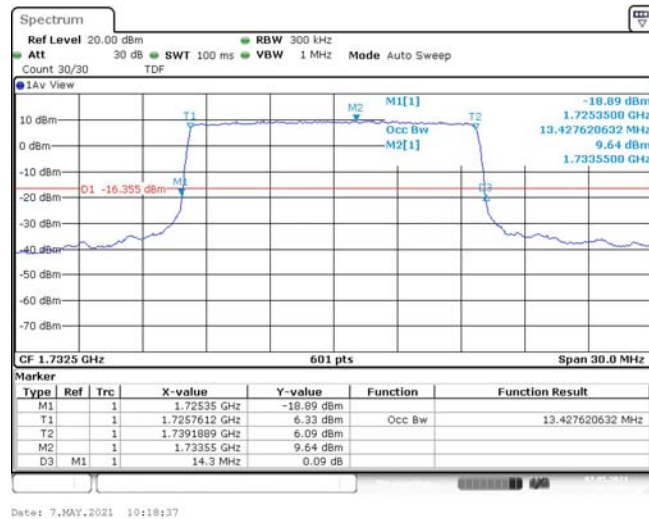
Band4-10MHz-16QAM-20350-50RB#0-8.952



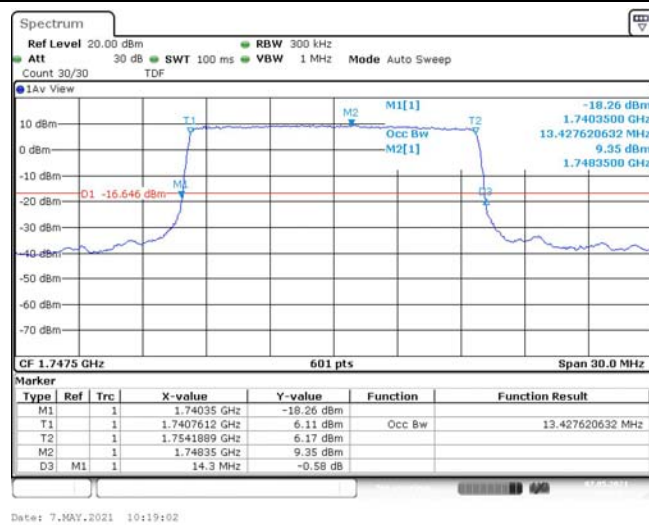
Band4-15MHz-QPSK-20025-75RB#0-13.428



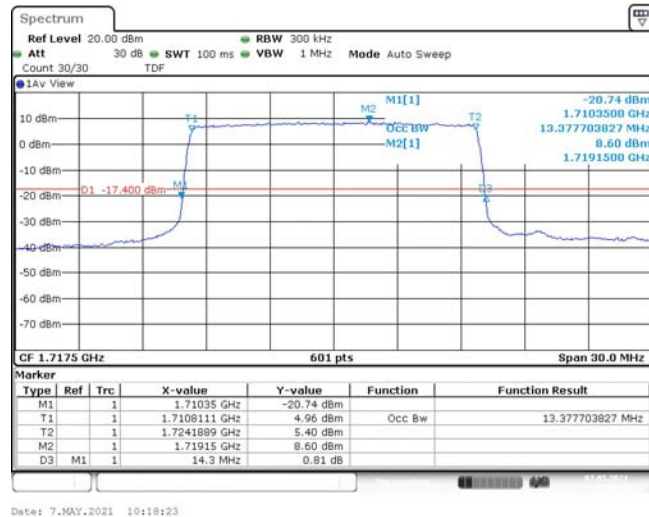
Band4-15MHz-QPSK-20175-75RB#0-13.428



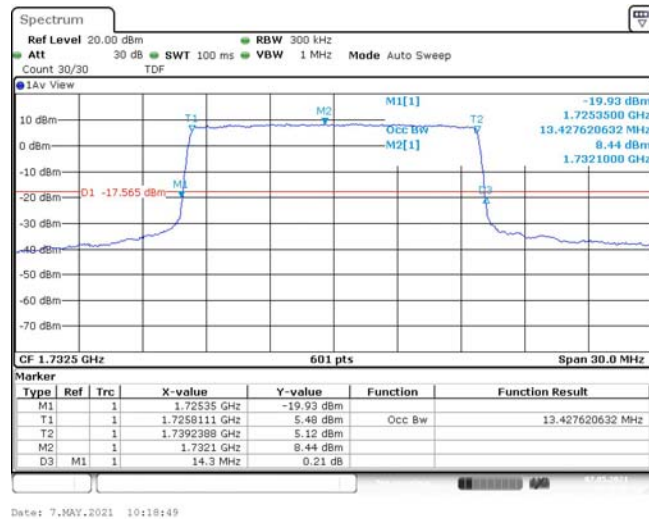
Band4-15MHz-QPSK-20325-75RB#0-13.428



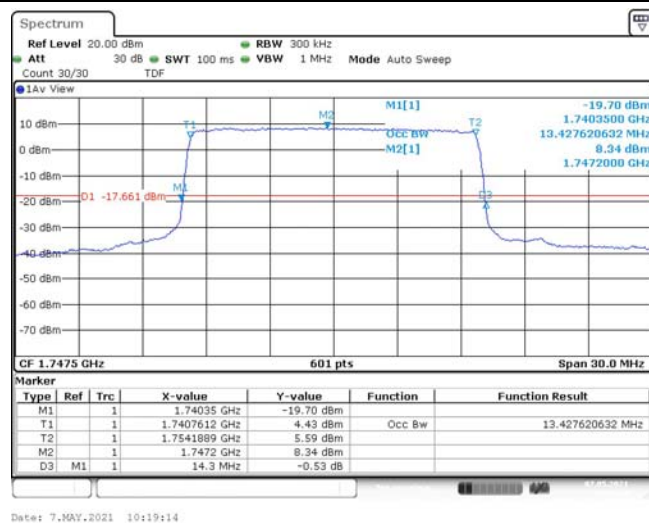
Band4-15MHz-16QAM-20025-75RB#0-13.378



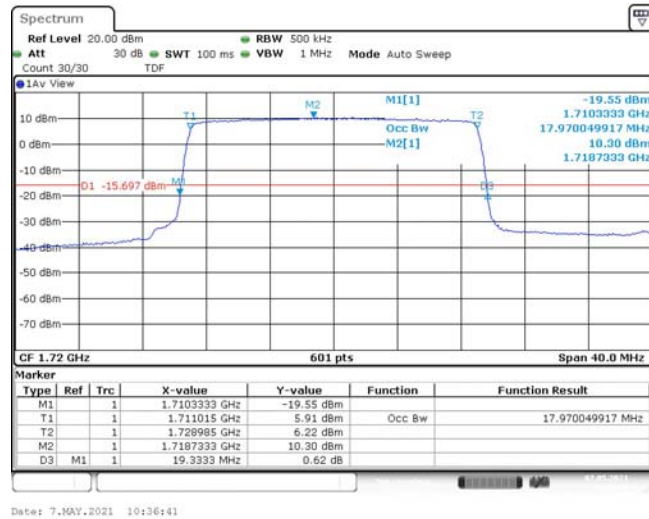
Band4-15MHz-16QAM-20175-75RB#0-13.428



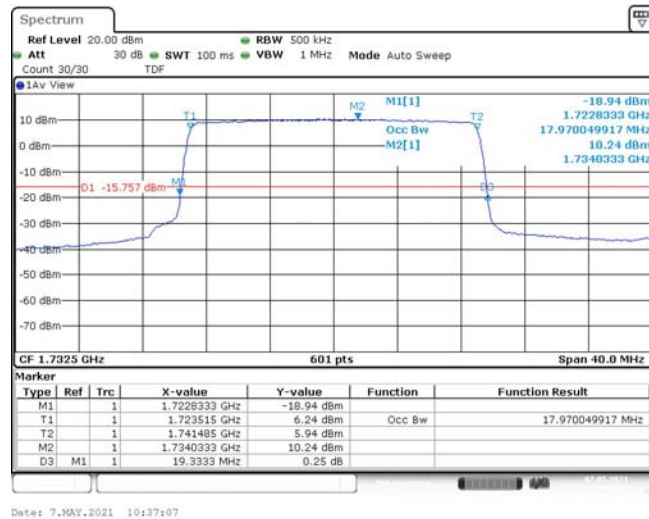
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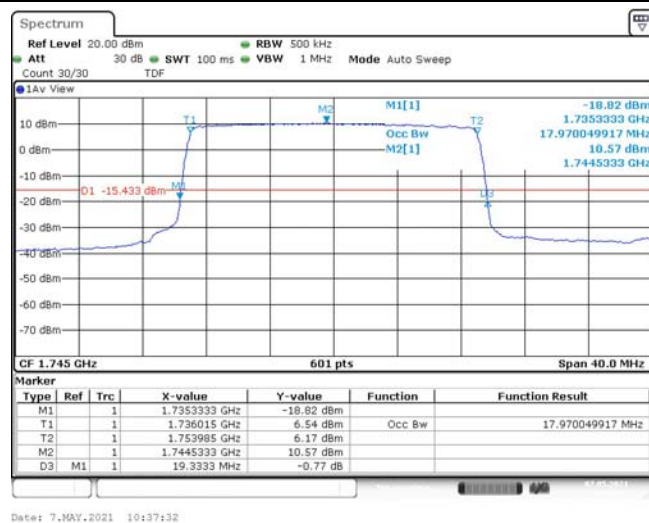
Band4-20MHz-QPSK-20050-100RB#0-17.97



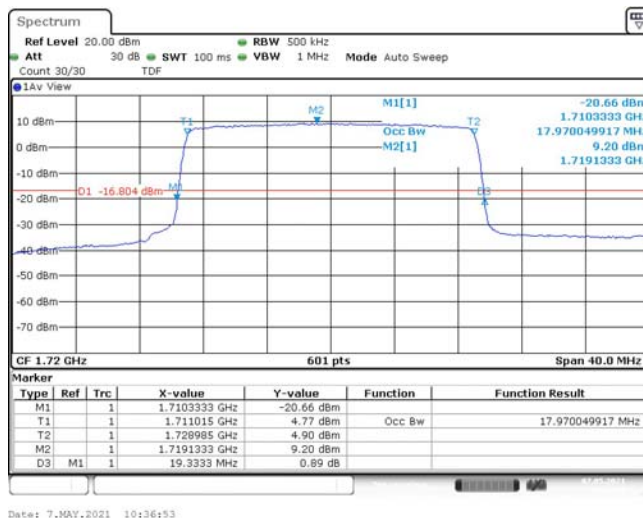
Band4-20MHz-QPSK-20175-100RB#0-17.97



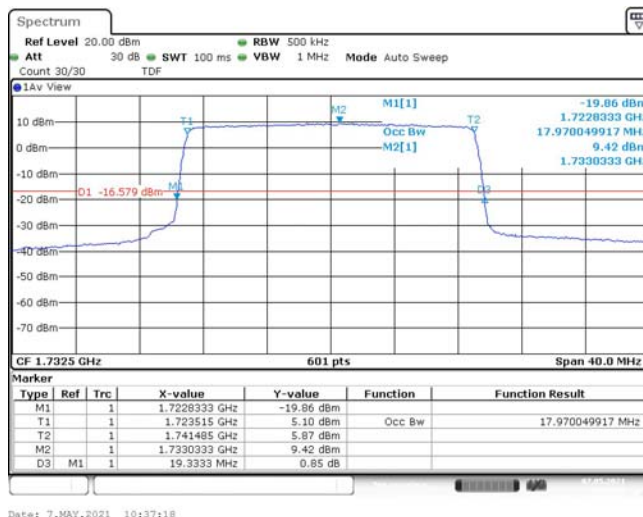
Band4-20MHz-QPSK-20300-100RB#0-17.97



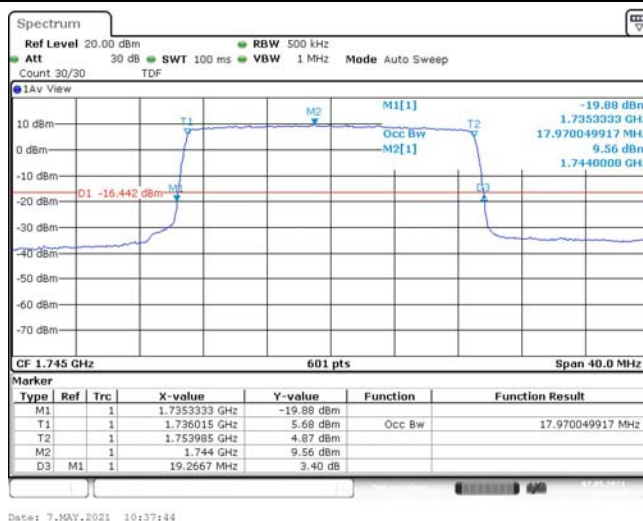
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Band4-20MHz-16QAM-20175-100RB#0-17.97



Band4-20MHz-16QAM-20300-100RB#0-17.97





Appendix D: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	-23.23	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	-43.44	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	-28.83	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	-38.14	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	-21.51	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	-24.91	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	-25.12	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	-45.71	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	-30.75	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	-39.62	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	-23.63	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	-26.73	PASS
Band4	3MHz	QPSK	19965	1RB#0	-20.96	PASS
Band4	3MHz	QPSK	19965	1RB#14	-44.36	PASS
Band4	3MHz	QPSK	19965	15RB#0	-28.26	PASS
Band4	3MHz	QPSK	20385	1RB#0	-44.08	PASS
Band4	3MHz	QPSK	20385	1RB#14	-17.76	PASS
Band4	3MHz	QPSK	20385	15RB#0	-25.71	PASS
Band4	3MHz	16QAM	19965	1RB#0	-21.53	PASS
Band4	3MHz	16QAM	19965	1RB#14	-45.65	PASS
Band4	3MHz	16QAM	19965	15RB#0	-29.41	PASS
Band4	3MHz	16QAM	20385	1RB#0	-44.54	PASS
Band4	3MHz	16QAM	20385	1RB#14	-19.88	PASS
Band4	3MHz	16QAM	20385	15RB#0	-27.05	PASS
Band4	5MHz	QPSK	19975	1RB#0	-21.87	PASS
Band4	5MHz	QPSK	19975	1RB#24	-50.68	PASS
Band4	5MHz	QPSK	19975	25RB#0	-30.33	PASS
Band4	5MHz	QPSK	20375	1RB#0	-50.99	PASS
Band4	5MHz	QPSK	20375	1RB#24	-21.25	PASS
Band4	5MHz	QPSK	20375	25RB#0	-26.54	PASS
Band4	5MHz	16QAM	19975	1RB#0	-23.94	PASS
Band4	5MHz	16QAM	19975	1RB#24	-51.55	PASS
Band4	5MHz	16QAM	19975	25RB#0	-31.30	PASS
Band4	5MHz	16QAM	20375	1RB#0	-51.43	PASS
Band4	5MHz	16QAM	20375	1RB#24	-22.39	PASS
Band4	5MHz	16QAM	20375	25RB#0	-27.85	PASS
Band4	10MHz	QPSK	20000	1RB#0	-30.63	PASS
Band4	10MHz	QPSK	20000	1RB#49	-49.42	PASS



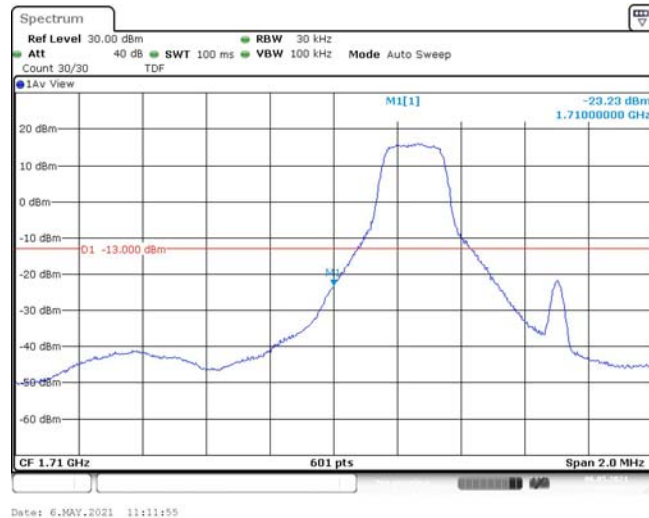
CTC Laboratories, Inc.

Band4	10MHz	QPSK	20000	50RB#0	-30.12	PASS
Band4	10MHz	QPSK	20350	1RB#0	-49.21	PASS
Band4	10MHz	QPSK	20350	1RB#49	-29.45	PASS
Band4	10MHz	QPSK	20350	50RB#0	-30.07	PASS
Band4	10MHz	16QAM	20000	1RB#0	-31.52	PASS
Band4	10MHz	16QAM	20000	1RB#49	-50.00	PASS
Band4	10MHz	16QAM	20000	50RB#0	-31.19	PASS
Band4	10MHz	16QAM	20350	1RB#0	-49.65	PASS
Band4	10MHz	16QAM	20350	1RB#49	-30.47	PASS
Band4	10MHz	16QAM	20350	50RB#0	-30.90	PASS
Band4	15MHz	QPSK	20025	1RB#0	-30.46	PASS
Band4	15MHz	QPSK	20025	1RB#74	-49.09	PASS
Band4	15MHz	QPSK	20025	75RB#0	-31.06	PASS
Band4	15MHz	QPSK	20325	1RB#0	-48.08	PASS
Band4	15MHz	QPSK	20325	1RB#74	-27.79	PASS
Band4	15MHz	QPSK	20325	75RB#0	-30.25	PASS
Band4	15MHz	16QAM	20025	1RB#0	-31.73	PASS
Band4	15MHz	16QAM	20025	1RB#74	-48.89	PASS
Band4	15MHz	16QAM	20025	75RB#0	-33.22	PASS
Band4	15MHz	16QAM	20325	1RB#0	-48.80	PASS
Band4	15MHz	16QAM	20325	1RB#74	-27.71	PASS
Band4	15MHz	16QAM	20325	75RB#0	-32.56	PASS
Band4	20MHz	QPSK	20050	1RB#0	-26.35	PASS
Band4	20MHz	QPSK	20050	1RB#99	-47.86	PASS
Band4	20MHz	QPSK	20050	100RB#0	-30.85	PASS
Band4	20MHz	QPSK	20300	1RB#0	-47.36	PASS
Band4	20MHz	QPSK	20300	1RB#99	-25.80	PASS
Band4	20MHz	QPSK	20300	100RB#0	-31.22	PASS
Band4	20MHz	16QAM	20050	1RB#0	-26.37	PASS
Band4	20MHz	16QAM	20050	1RB#99	-48.02	PASS
Band4	20MHz	16QAM	20050	100RB#0	-31.85	PASS
Band4	20MHz	16QAM	20300	1RB#0	-47.64	PASS
Band4	20MHz	16QAM	20300	1RB#99	-26.57	PASS
Band4	20MHz	16QAM	20300	100RB#0	-32.23	PASS

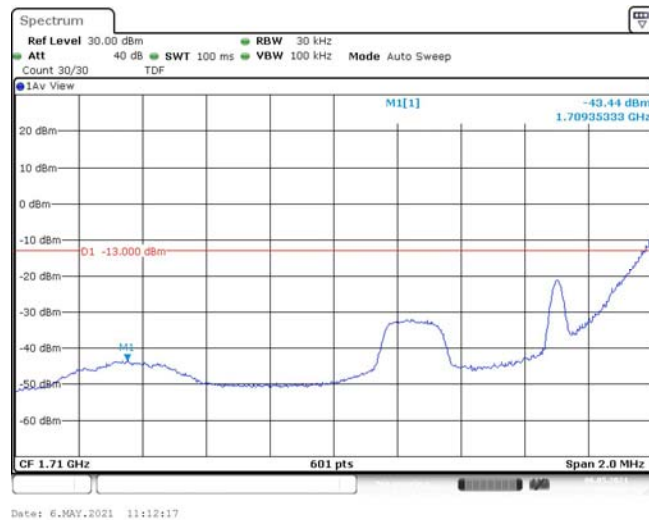


Test Graphs

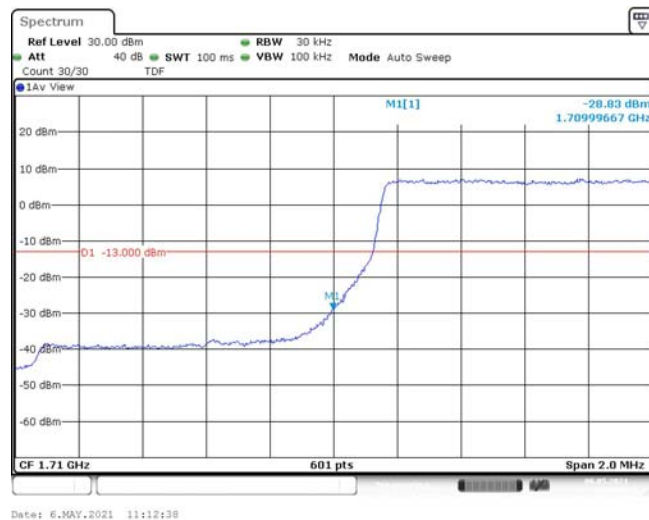
Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-1RB#5

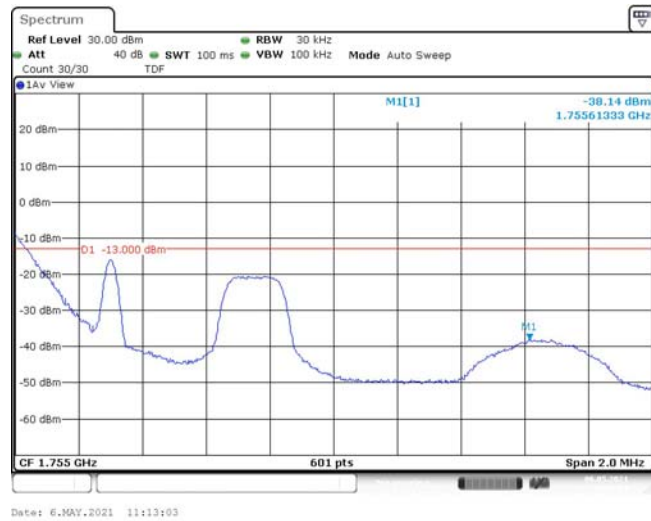


Band4-1.4MHz-QPSK-19957-6RB#0

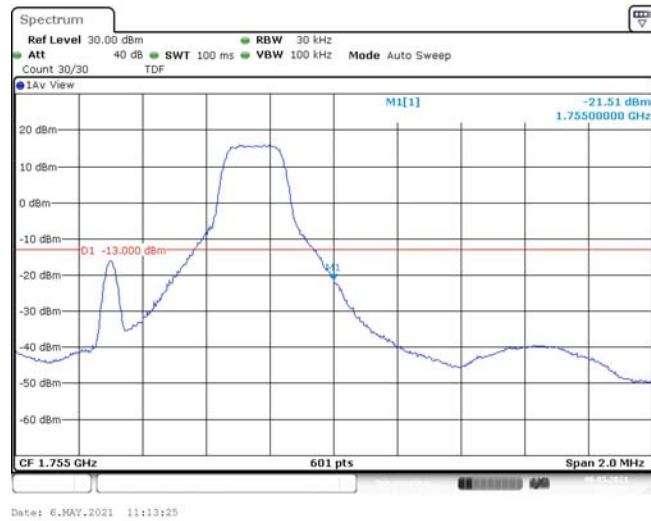




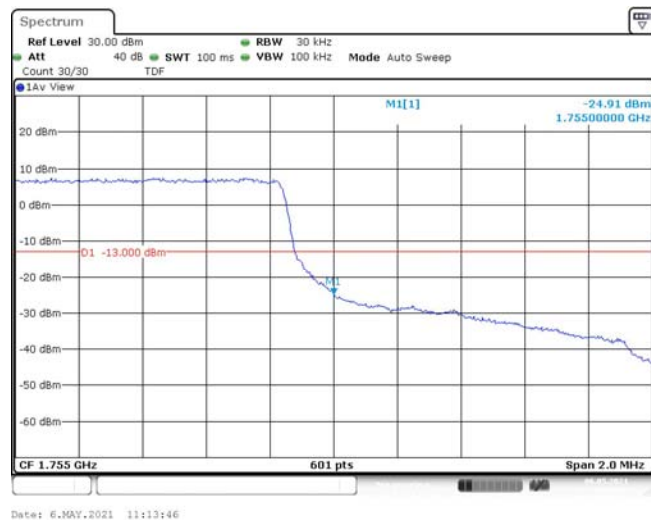
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Band4-1.4MHz-QPSK-20393-1RB#5



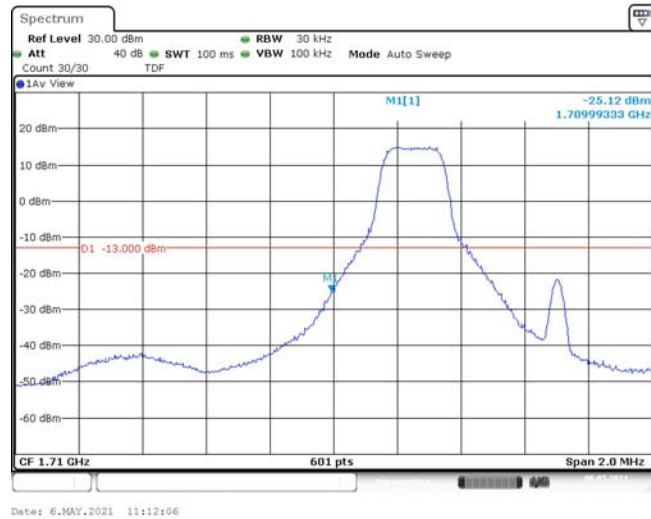
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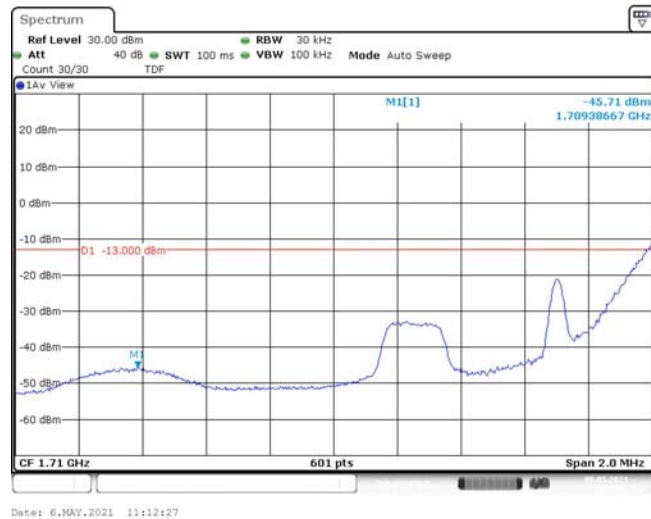
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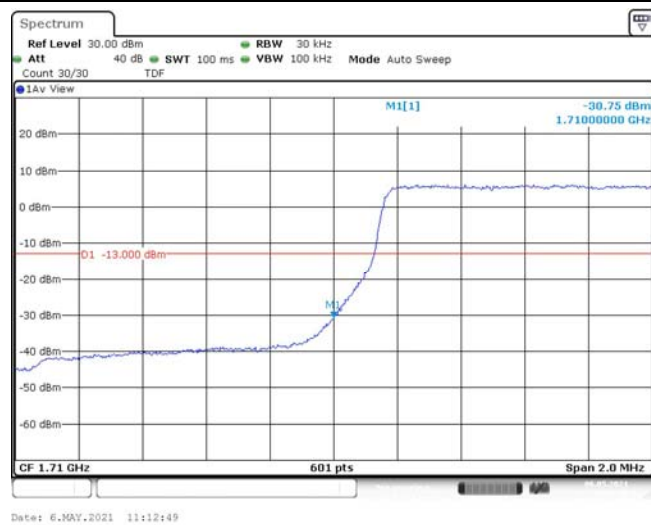
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Band4-1.4MHz-16QAM-19957-1RB#5



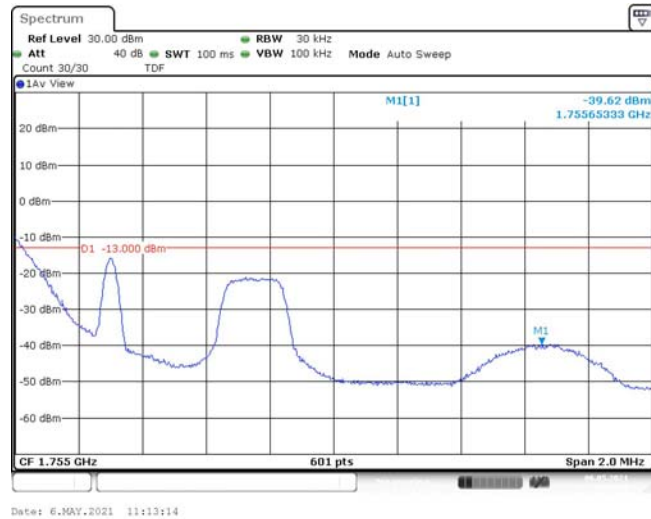
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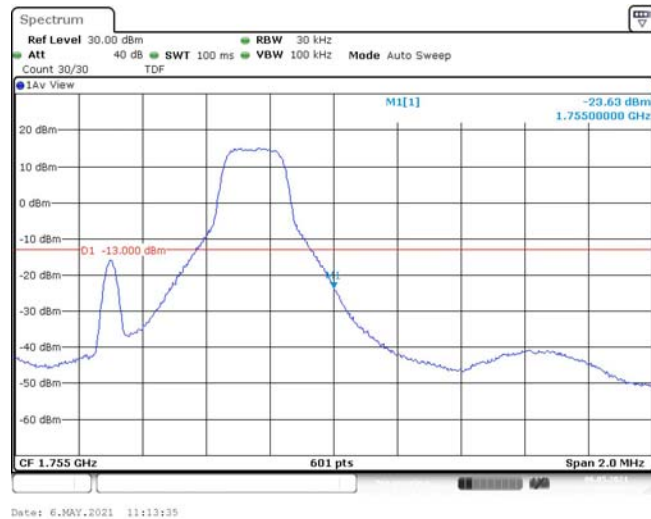
Band4-1.4MHz-16QAM-20393-1RB#0



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



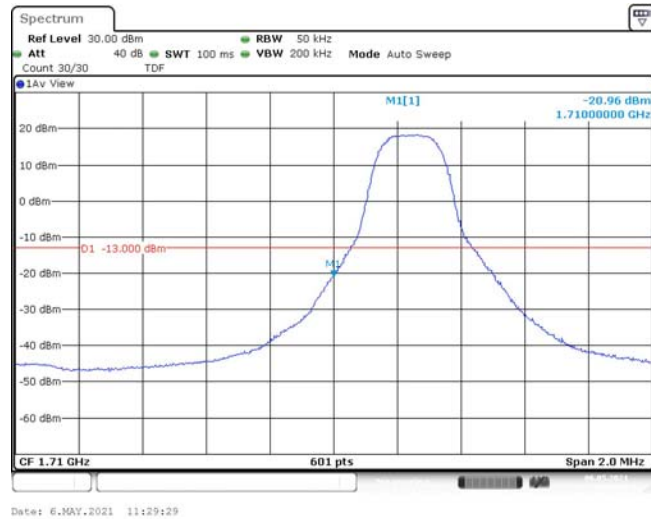
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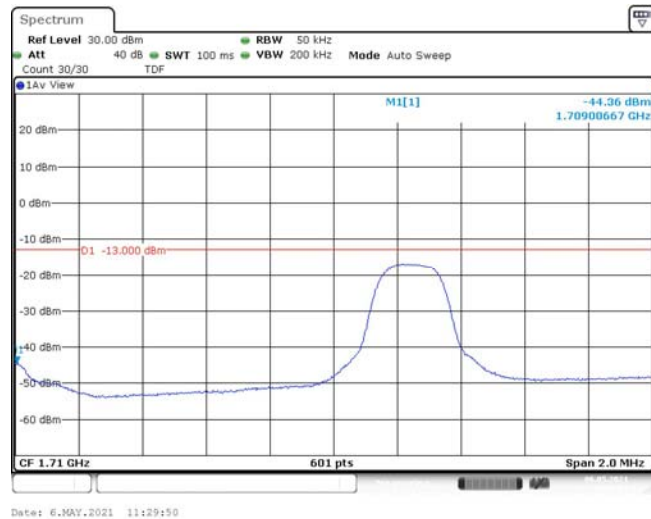
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Band4-3MHz-QPSK-19965-1RB#14



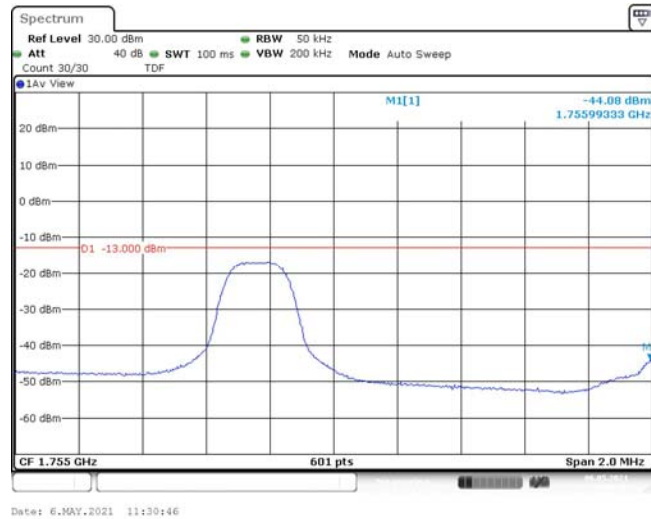
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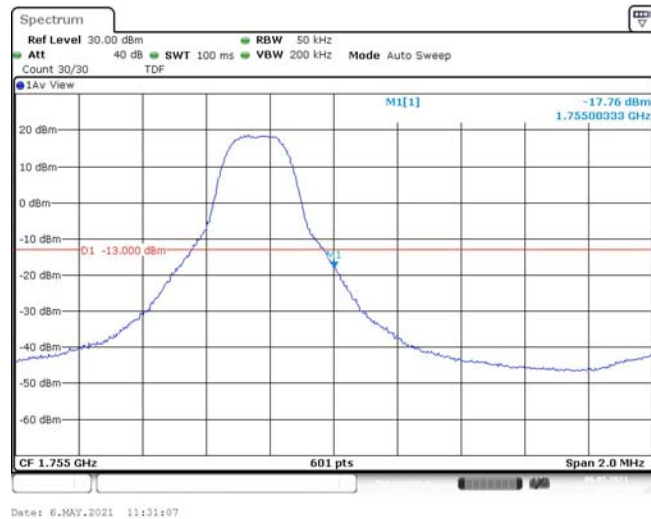
Band4-3MHz-QPSK-20385-1RB#0



CTC Laboratories, Inc.



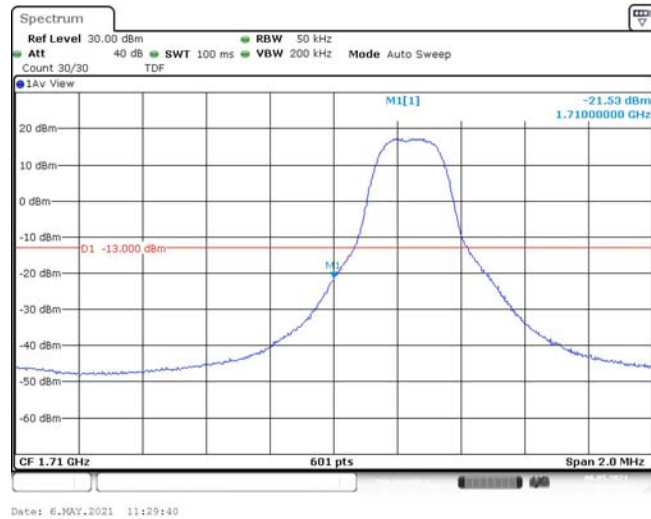
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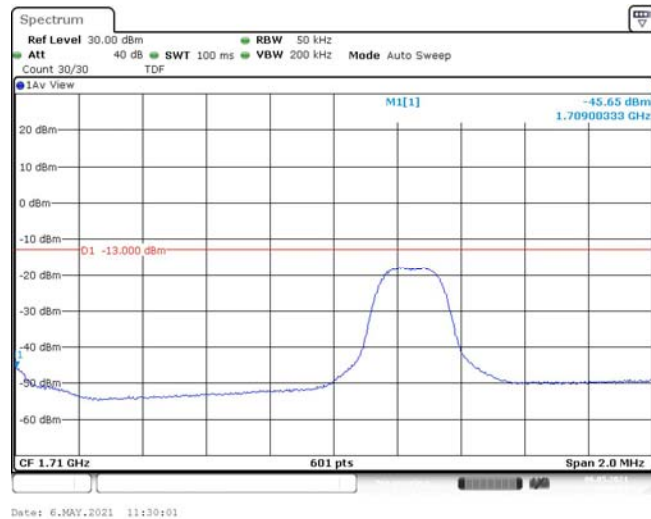
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Band4-3MHz-16QAM-19965-1RB#0



Band4-3MHz-16QAM-19965-1RB#14



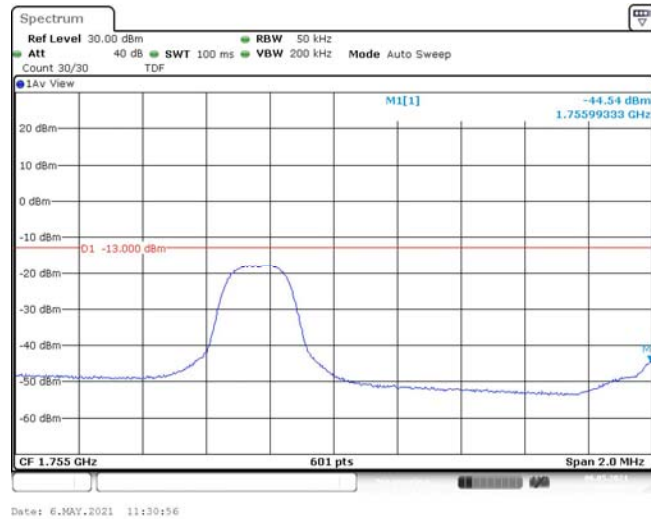
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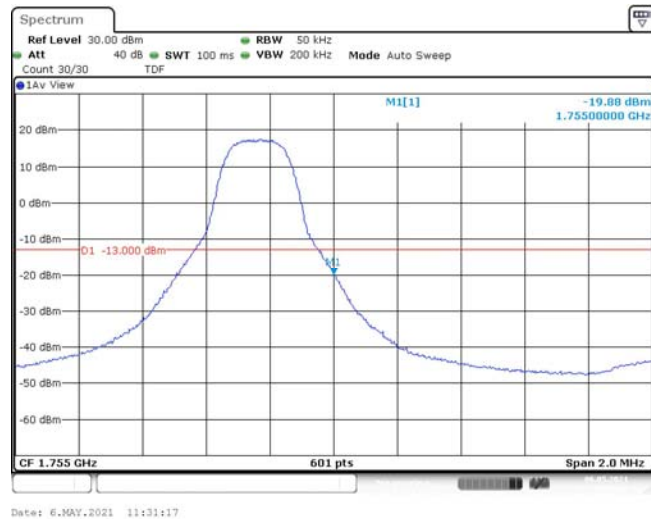
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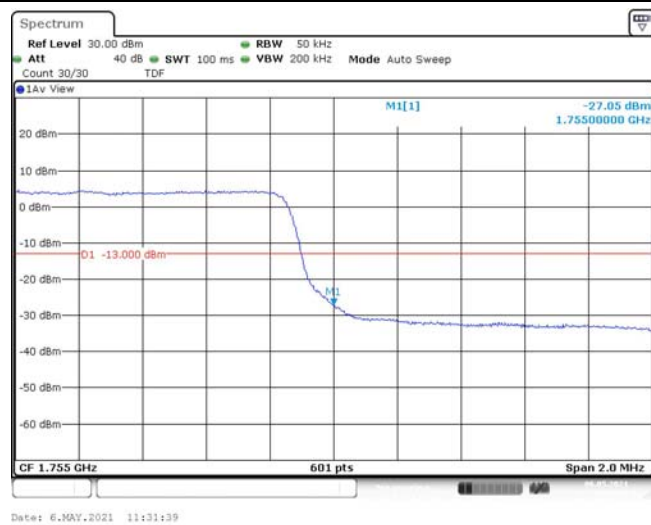
CTC Laboratories, Inc.



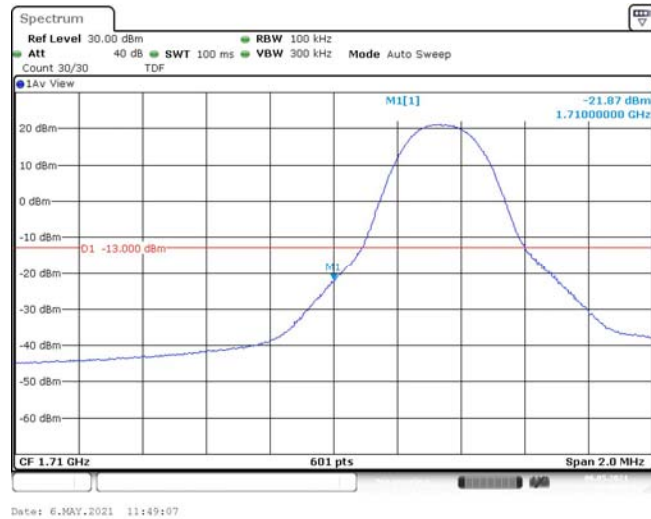
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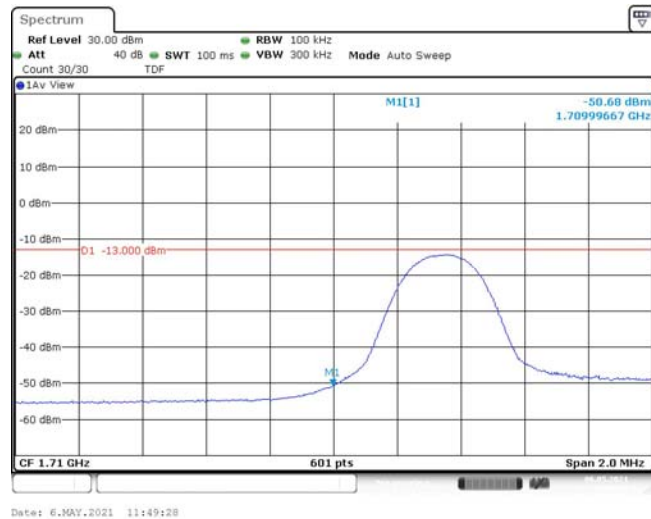
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Band4-5MHz-QPSK-19975-1RB#0



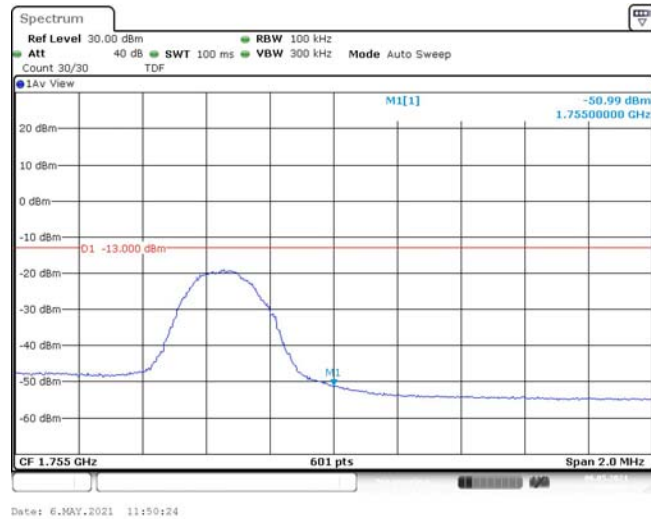
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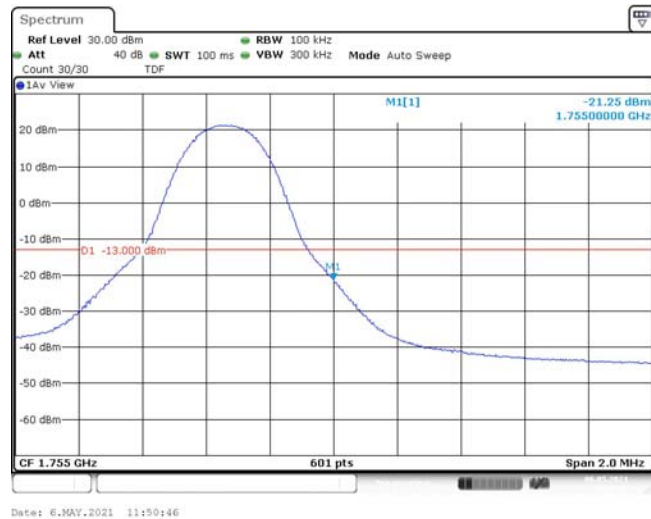
Band4-5MHz-QPSK-19975-25RB#0



Band4-5MHz-QPSK-20375-1RB#0



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



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



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