



Appendix B

E-UTRA Band CA_7C



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1 Effective (Isotropic) Radiated Power Output Data

1.1 Test Result for LTE Band CA_7C

BAND	Test Mode PCC/SCC	Channel PCC/SCC	RB Configuration		Modulation PCC&SCC	Result (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
			PCC	SCC					
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	QPSK	22.76	20.51	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	QPSK	22.98	20.73	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	QPSK	22.98	20.73	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	QPSK	22.91	20.66	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	QPSK	22.87	20.62	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	QPSK	22.92	20.67	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	QPSK	22.89	20.64	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	QPSK	22.54	20.29	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	QPSK	22.81	20.56	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	QPSK	22.50	20.25	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	QPSK	22.84	20.59	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	QPSK	22.59	20.34	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	QPSK	22.74	20.49	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	QPSK	22.94	20.69	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	QPSK	22.89	20.64	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	QPSK	22.80	20.55	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	QPSK	22.62	20.37	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	QPSK	22.79	20.54	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	QPSK	22.51	20.26	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	QPSK	22.98	20.73	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	QPSK	22.63	20.38	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	QPSK	22.88	20.63	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	QPSK	22.53	20.28	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	QPSK	22.72	20.47	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	QPSK	22.63	20.38	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	QPSK	22.78	20.53	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	QPSK	22.55	20.30	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	QPSK	23.00	20.75	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	QPSK	22.69	20.44	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	QPSK	22.93	20.68	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	QPSK	22.66	20.41	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	QPSK	22.93	20.68	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	QPSK	22.58	20.33	33.00	PASS



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CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	16QAM	21.92	19.67	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	16QAM	21.74	19.49	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	16QAM	21.87	19.62	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	16QAM	21.84	19.59	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	16QAM	22.00	19.75	33.00	PASS
CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	16QAM	21.89	19.64	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	16QAM	21.95	19.70	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	16QAM	21.53	19.28	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	16QAM	21.96	19.71	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	16QAM	21.42	19.17	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	16QAM	21.78	19.53	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	16QAM	21.56	19.31	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	16QAM	21.78	19.53	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	16QAM	21.82	19.57	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	16QAM	21.78	19.53	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	16QAM	21.76	19.51	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	16QAM	21.69	19.44	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	16QAM	22.00	19.75	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	16QAM	21.41	19.16	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	16QAM	21.73	19.48	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	16QAM	21.58	19.33	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	16QAM	21.84	19.59	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	16QAM	21.59	19.34	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	16QAM	21.86	19.61	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	16QAM	21.64	19.39	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	16QAM	21.68	19.43	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	16QAM	21.47	19.22	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	16QAM	21.98	19.73	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	16QAM	21.52	19.27	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	16QAM	21.74	19.49	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	16QAM	21.61	19.36	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	16QAM	21.74	19.49	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	16QAM	21.40	19.15	33.00	PASS
CA_7C	50RB+100RB	20805+20949	1RB#0	0RB#0	64QAM	20.87	18.62	33.00	PASS
CA_7C	50RB+100RB	21006+21150	1RB#0	0RB#0	64QAM	20.71	18.46	33.00	PASS
CA_7C	50RB+100RB	21206+21350	1RB#0	0RB#0	64QAM	20.82	18.57	33.00	PASS
CA_7C	75RB+50RB	20825+20945	1RB#0	0RB#0	64QAM	20.80	18.55	33.00	PASS
CA_7C	75RB+50RB	21051+21171	1RB#0	0RB#0	64QAM	20.86	18.61	33.00	PASS



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CA_7C	75RB+50RB	21277+21397	1RB#0	0RB#0	64QAM	20.71	18.46	33.00	PASS
CA_7C	75RB+75RB	20825+20975	1RB#0	0RB#0	64QAM	20.76	18.51	33.00	PASS
CA_7C	75RB+75RB	20825+20975	16RB#0	0RB#0	64QAM	20.43	18.18	33.00	PASS
CA_7C	75RB+75RB	21025+21175	1RB#0	0RB#0	64QAM	20.80	18.55	33.00	PASS
CA_7C	75RB+75RB	21025+21175	16RB#0	0RB#0	64QAM	20.45	18.20	33.00	PASS
CA_7C	75RB+75RB	21225+21375	1RB#0	0RB#0	64QAM	20.95	18.70	33.00	PASS
CA_7C	75RB+75RB	21225+21375	16RB#0	0RB#0	64QAM	20.43	18.18	33.00	PASS
CA_7C	75RB+100RB	20828+20999	1RB#0	0RB#0	64QAM	20.70	18.45	33.00	PASS
CA_7C	75RB+100RB	21003+21174	1RB#0	0RB#0	64QAM	20.88	18.63	33.00	PASS
CA_7C	75RB+100RB	21179+21350	1RB#0	0RB#0	64QAM	20.99	18.74	33.00	PASS
CA_7C	100RB+50RB	20850+20994	1RB#0	0RB#0	64QAM	20.84	18.59	33.00	PASS
CA_7C	100RB+50RB	20850+20994	12RB#0	0RB#0	64QAM	20.38	18.13	33.00	PASS
CA_7C	100RB+50RB	21051+21195	1RB#0	0RB#0	64QAM	20.99	18.74	33.00	PASS
CA_7C	100RB+50RB	21051+21195	12RB#0	0RB#0	64QAM	20.55	18.30	33.00	PASS
CA_7C	100RB+50RB	21251+21395	1RB#0	0RB#0	64QAM	20.82	18.57	33.00	PASS
CA_7C	100RB+50RB	21251+21395	12RB#0	0RB#0	64QAM	20.61	18.36	33.00	PASS
CA_7C	100RB+75RB	20850+21021	1RB#0	0RB#0	64QAM	20.67	18.42	33.00	PASS
CA_7C	100RB+75RB	20850+21021	16RB#0	0RB#0	64QAM	20.63	18.38	33.00	PASS
CA_7C	100RB+75RB	21026+21197	1RB#0	0RB#0	64QAM	20.79	18.54	33.00	PASS
CA_7C	100RB+75RB	21026+21197	16RB#0	0RB#0	64QAM	20.57	18.32	33.00	PASS
CA_7C	100RB+75RB	21201+21372	1RB#0	0RB#0	64QAM	20.83	18.58	33.00	PASS
CA_7C	100RB+75RB	21201+21372	16RB#0	0RB#0	64QAM	20.43	18.18	33.00	PASS
CA_7C	100RB+100RB	20850+21048	1RB#0	0RB#0	64QAM	20.90	18.65	33.00	PASS
CA_7C	100RB+100RB	20850+21048	18RB#0	0RB#0	64QAM	20.69	18.44	33.00	PASS
CA_7C	100RB+100RB	21001+21199	1RB#0	0RB#0	64QAM	20.94	18.69	33.00	PASS
CA_7C	100RB+100RB	21001+21199	18RB#0	0RB#0	64QAM	20.48	18.23	33.00	PASS
CA_7C	100RB+100RB	21152+21350	1RB#0	0RB#0	64QAM	20.93	18.68	33.00	PASS
CA_7C	100RB+100RB	21152+21350	18RB#0	0RB#0	64QAM	20.37	18.12	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBi]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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2 Peak-to-Average Ratio

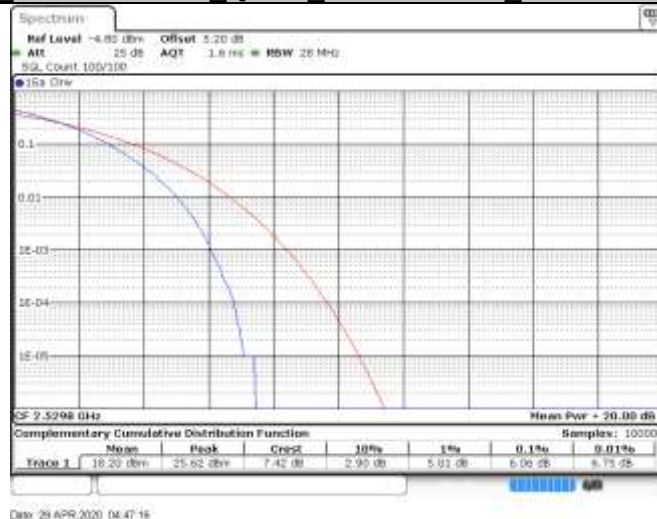
Part I - Test Results

Test Band	Modulation	Test Mode	Test Channel	PCC RB Config	SCC RB Config	Measured [dB]	Limit [dB]	Verdict
CA_7C	QPSK	100RB+100RB	21048+20850	100RB#0	100RB#0	6.06	13.00	PASS
CA_7C	QPSK	100RB+100RB	21199+21001	100RB#0	100RB#0	5.97	13.00	PASS
CA_7C	QPSK	100RB+100RB	21350+21152	100RB#0	100RB#0	6.12	13.00	PASS
CA_7C	16QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.52	13.00	PASS
CA_7C	16QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.67	13.00	PASS
CA_7C	16QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.58	13.00	PASS
CA_7C	64QAM	100RB+100RB	21048+20850	100RB#0	100RB#0	6.64	13.00	PASS
CA_7C	64QAM	100RB+100RB	21199+21001	100RB#0	100RB#0	6.72	13.00	PASS
CA_7C	64QAM	100RB+100RB	21350+21152	100RB#0	100RB#0	6.70	13.00	PASS

2.1 For LTE

2.1.1 Test Band = LTE Band CA_7C

CA_7C_100RB+100RB_QPSK_21048+20850_100RB#0+100RB#0



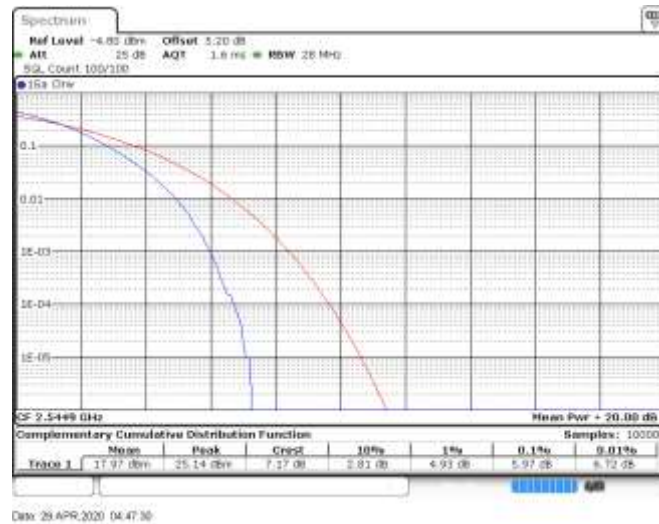
CA_7C_100RB+100RB_QPSK_21199+21001_100RB#0+100RB#0



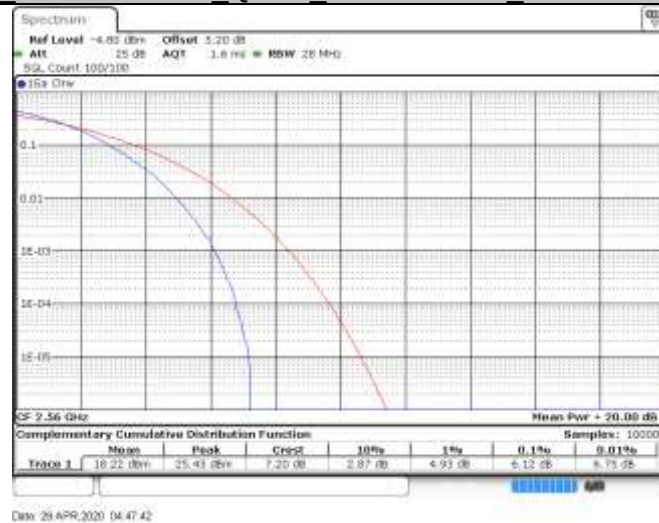
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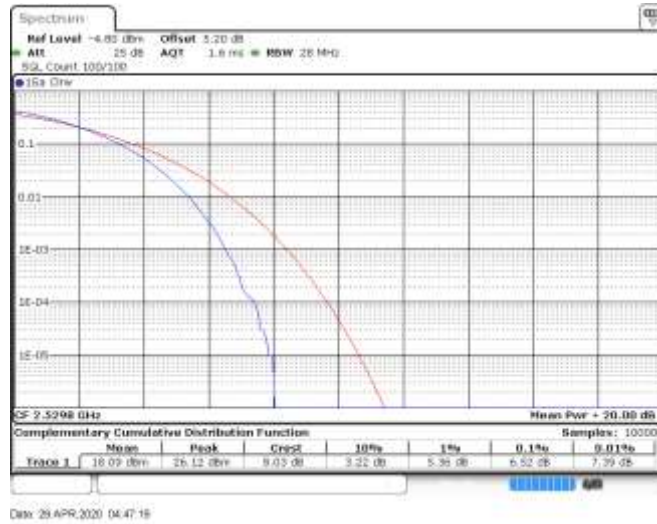


CA 7C 100RB+100RB QPSK 21350+21152 100RB#0+100RB#0

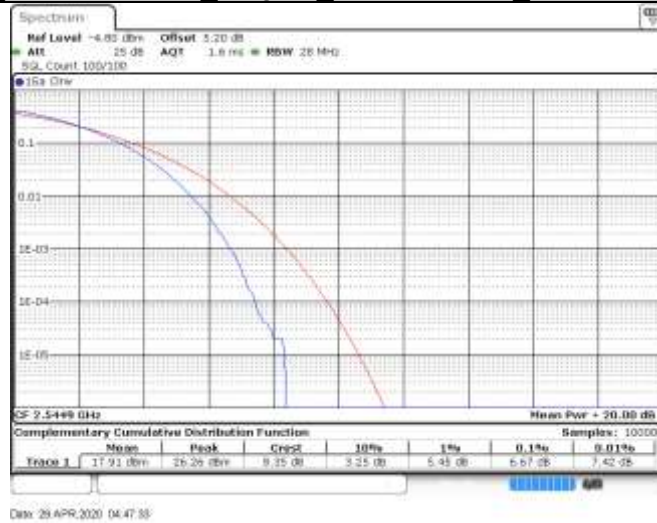


CA 7C 100RB+100RB 16QAM 21048+20850 100RB#0+100RB#0





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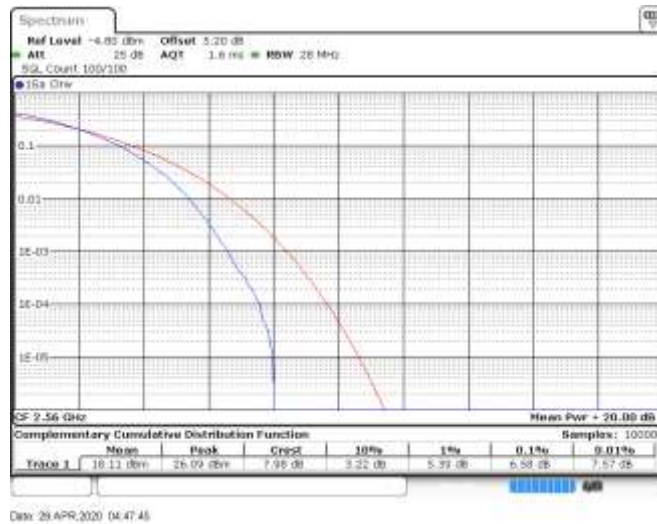
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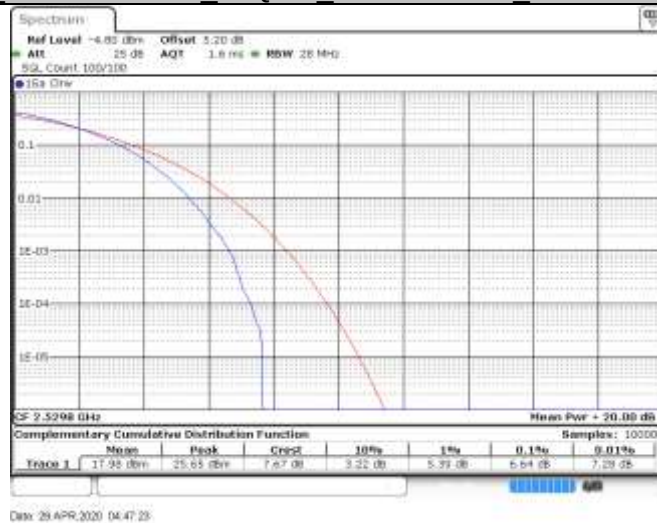
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Shenzhen Branch (SGS-CSTC Shenzhen Laboratory)

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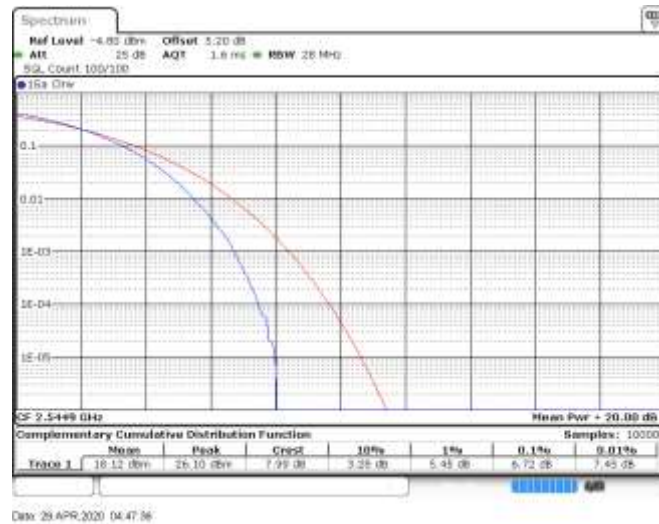


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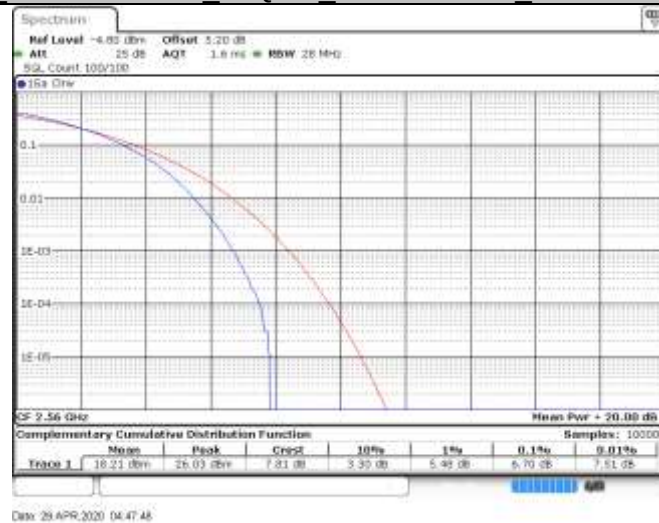


CA 7C 100RB+100RB 64QAM 21199+21001 100RB#0+100RB#0





CA 7C 100RB+100RB 64QAM 21350+21152 100RB#0+100RB#0



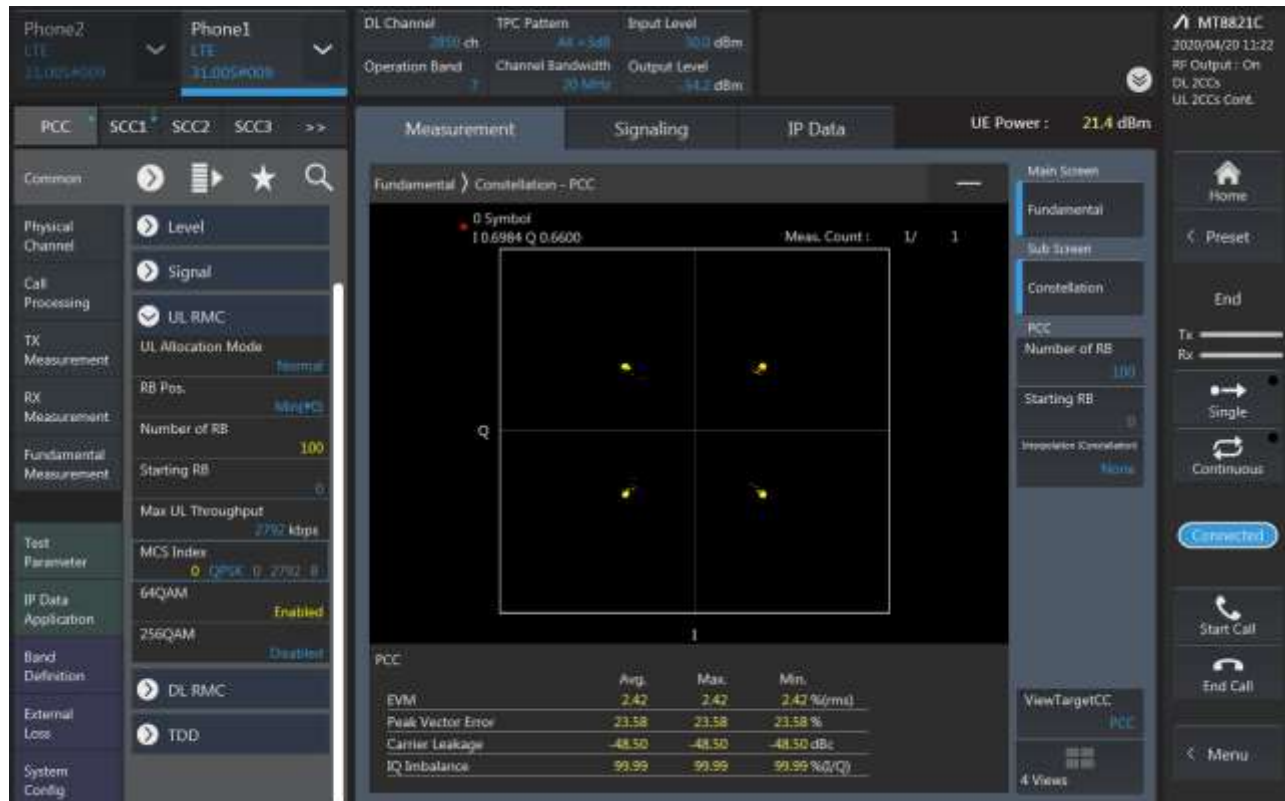
3 Modulation Characteristics

3.1 For LTE

3.1.1 Test Band = LTE Band CA_7C

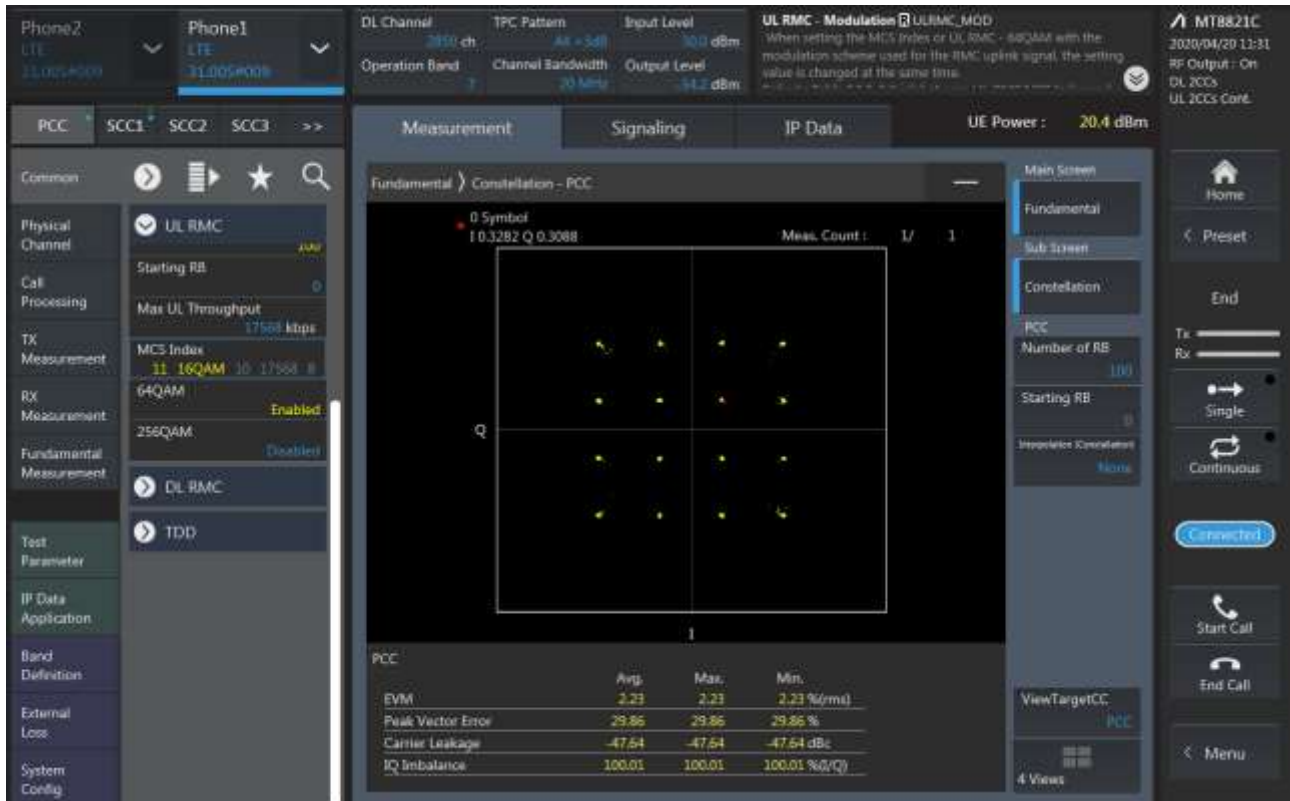
3.1.1.1 Test Mode = LTE /QPSK 100RB+100RB

3.1.1.1.1 Test Channel = 20850+20994



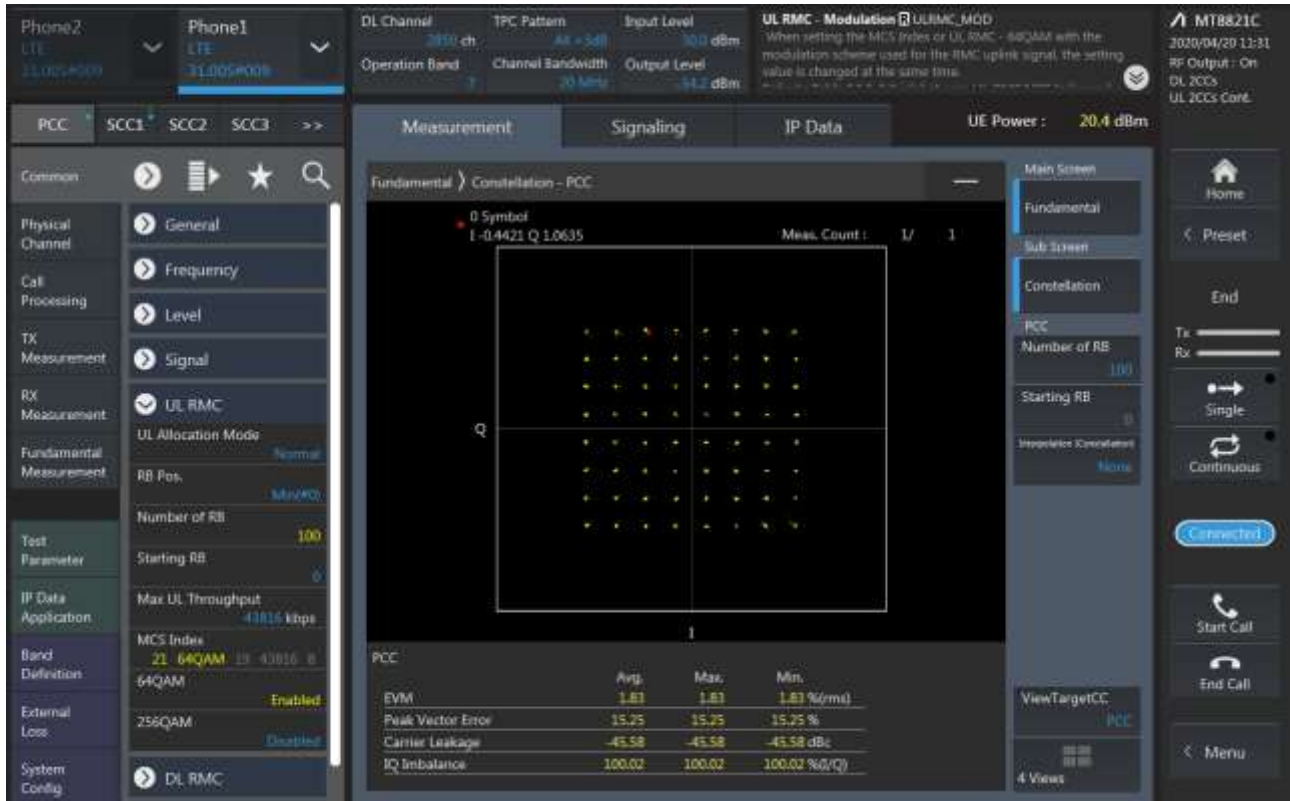
3.1.1.2 Test Mode = LTE /16QAM 100RB+100RB

3.1.1.2.1 Test Channel =20850+20994



3.1.1.3 Test Mode = LTE /64QAM 100RB+100RB

3.1.1.3.1 Test Channel = 20850+20994





4 26dB Bandwidth and Occupied Bandwidth

Test Band	Test Mode PCC/SCC	Modulation PCC&SCC	Test Channel PCC/SCC	RB Config	OBW [MHz]	EBW [MHz]	Verdict
CA_7C	50RB+100RB	QPSK	20805+20949	50RB#0+100RB#0	27.61	28.61	PASS
CA_7C	50RB+100RB	16QAM	20805+20949	50RB#0+100RB#0	27.61	28.63	PASS
CA_7C	50RB+100RB	64QAM	20805+20949	50RB#0+100RB#0	27.61	28.67	PASS
CA_7C	50RB+100RB	QPSK	21006+21150	50RB#0+100RB#0	27.68	28.67	PASS
CA_7C	50RB+100RB	16QAM	21006+21150	50RB#0+100RB#0	27.67	28.61	PASS
CA_7C	50RB+100RB	64QAM	21006+21150	50RB#0+100RB#0	27.70	28.67	PASS
CA_7C	50RB+100RB	QPSK	21206+21350	50RB#0+100RB#0	27.61	28.58	PASS
CA_7C	50RB+100RB	16QAM	21206+21350	50RB#0+100RB#0	27.59	28.64	PASS
CA_7C	50RB+100RB	64QAM	21206+21350	50RB#0+100RB#0	27.61	28.63	PASS
CA_7C	75RB+50RB	QPSK	20825+20945	75RB#0+50RB#0	23.19	24.45	PASS
CA_7C	75RB+50RB	16QAM	20825+20945	75RB#0+50RB#0	23.19	24.46	PASS
CA_7C	75RB+50RB	64QAM	20825+20945	75RB#0+50RB#0	23.21	24.51	PASS
CA_7C	75RB+50RB	QPSK	21051+21171	75RB#0+50RB#0	23.23	24.53	PASS
CA_7C	75RB+50RB	16QAM	21051+21171	75RB#0+50RB#0	23.25	24.53	PASS
CA_7C	75RB+50RB	64QAM	21051+21171	75RB#0+50RB#0	23.26	24.49	PASS
CA_7C	75RB+50RB	QPSK	21277+21397	75RB#0+50RB#0	23.19	24.47	PASS
CA_7C	75RB+50RB	16QAM	21277+21397	75RB#0+50RB#0	23.21	24.50	PASS
CA_7C	75RB+50RB	64QAM	21277+21397	75RB#0+50RB#0	23.21	24.43	PASS
CA_7C	75RB+75RB	QPSK	20825+20975	75RB#0+75RB#0	28.22	29.30	PASS
CA_7C	75RB+75RB	16QAM	20825+20975	75RB#0+75RB#0	28.24	29.32	PASS
CA_7C	75RB+75RB	64QAM	20825+20975	75RB#0+75RB#0	28.22	29.33	PASS
CA_7C	75RB+75RB	QPSK	21025+21175	75RB#0+75RB#0	28.3	29.36	PASS
CA_7C	75RB+75RB	16QAM	21025+21175	75RB#0+75RB#0	28.3	29.36	PASS
CA_7C	75RB+75RB	64QAM	21025+21175	75RB#0+75RB#0	28.3	29.41	PASS
CA_7C	75RB+75RB	QPSK	21225+21375	75RB#0+75RB#0	28.21	29.36	PASS
CA_7C	75RB+75RB	16QAM	21225+21375	75RB#0+75RB#0	28.22	29.38	PASS
CA_7C	75RB+75RB	64QAM	21225+21375	75RB#0+75RB#0	28.22	29.30	PASS
CA_7C	75RB+100RB	QPSK	20828+20999	75RB#0+100RB#0	32.59	33.95	PASS
CA_7C	75RB+100RB	16QAM	20828+20999	75RB#0+100RB#0	32.59	34.01	PASS
CA_7C	75RB+100RB	64QAM	20828+20999	75RB#0+100RB#0	32.59	34.05	PASS
CA_7C	75RB+100RB	QPSK	21003+21174	75RB#0+100RB#0	32.65	34.07	PASS
CA_7C	75RB+100RB	16QAM	21003+21174	75RB#0+100RB#0	32.75	34.09	PASS
CA_7C	75RB+100RB	64QAM	21003+21174	75RB#0+100RB#0	32.69	34.09	PASS
CA_7C	75RB+100RB	QPSK	21179+21350	75RB#0+100RB#0	32.61	33.99	PASS
CA_7C	75RB+100RB	16QAM	21179+21350	75RB#0+100RB#0	32.61	33.99	PASS
CA_7C	75RB+100RB	64QAM	21179+21350	75RB#0+100RB#0	32.61	34.01	PASS
CA_7C	100RB+50RB	QPSK	20850+20994	100RB#0+50RB#0	27.77	29.18	PASS
CA_7C	100RB+50RB	16QAM	20850+20994	100RB#0+50RB#0	27.77	29.20	PASS
CA_7C	100RB+50RB	64QAM	20850+20994	100RB#0+50RB#0	27.79	29.21	PASS
CA_7C	100RB+50RB	QPSK	21051+21195	100RB#0+50RB#0	27.86	29.24	PASS



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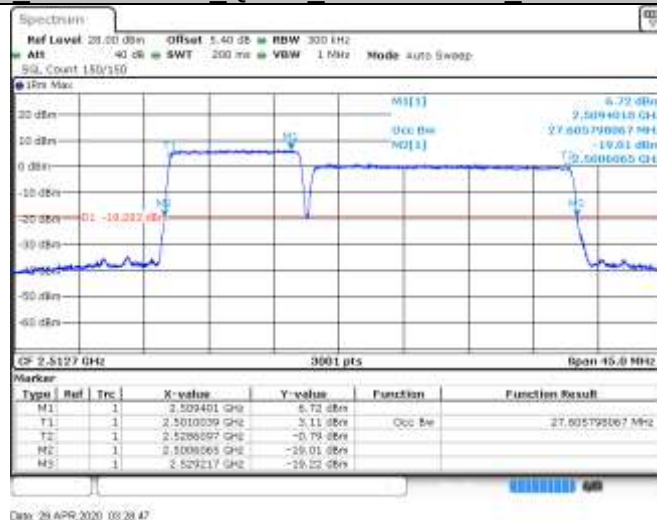


CA_7C	100RB+50RB	16QAM	21051+21195	100RB#0+50RB#0	27.86	29.26	PASS
CA_7C	100RB+50RB	64QAM	21051+21195	100RB#0+50RB#0	27.88	29.20	PASS
CA_7C	100RB+50RB	QPSK	21251+21395	100RB#0+50RB#0	27.8	29.20	PASS
CA_7C	100RB+50RB	16QAM	21251+21395	100RB#0+50RB#0	27.83	29.24	PASS
CA_7C	100RB+50RB	64QAM	21251+21395	100RB#0+50RB#0	27.82	29.18	PASS
CA_7C	100RB+75RB	QPSK	20850+21021	100RB#0+75RB#0	32.59	34.07	PASS
CA_7C	100RB+75RB	16QAM	20850+21021	100RB#0+75RB#0	32.59	34.09	PASS
CA_7C	100RB+75RB	64QAM	20850+21021	100RB#0+75RB#0	32.61	34.09	PASS
CA_7C	100RB+75RB	QPSK	21026+21197	100RB#0+75RB#0	32.69	34.07	PASS
CA_7C	100RB+75RB	16QAM	21026+21197	100RB#0+75RB#0	32.69	34.09	PASS
CA_7C	100RB+75RB	64QAM	21026+21197	100RB#0+75RB#0	32.71	34.05	PASS
CA_7C	100RB+75RB	QPSK	21201+21372	100RB#0+75RB#0	32.59	34.03	PASS
CA_7C	100RB+75RB	16QAM	21201+21372	100RB#0+75RB#0	32.61	34.07	PASS
CA_7C	100RB+75RB	64QAM	21201+21372	100RB#0+75RB#0	32.61	34.07	PASS
CA_7C	100RB+100RB	QPSK	20850+21048	100RB#0+100RB#0	37.51	39.03	PASS
CA_7C	100RB+100RB	16QAM	20850+21048	100RB#0+100RB#0	37.51	39.03	PASS
CA_7C	100RB+100RB	64QAM	20850+21048	100RB#0+100RB#0	37.51	39.01	PASS
CA_7C	100RB+100RB	QPSK	21001+21199	100RB#0+100RB#0	37.57	39.07	PASS
CA_7C	100RB+100RB	16QAM	21001+21199	100RB#0+100RB#0	37.59	39.13	PASS
CA_7C	100RB+100RB	64QAM	21001+21199	100RB#0+100RB#0	37.63	39.07	PASS
CA_7C	100RB+100RB	QPSK	21152+21350	100RB#0+100RB#0	37.51	39.11	PASS
CA_7C	100RB+100RB	16QAM	21152+21350	100RB#0+100RB#0	37.49	39.05	PASS
CA_7C	100RB+100RB	64QAM	21152+21350	100RB#0+100RB#0	37.47	39.01	PASS

4.1 For LTE

4.1.1 Test Band = LTE Band CA_7C

CA_7C 50RB+100RB QPSK 20805+20949 50RB#0+100RB#0



CA_7C 50RB+100RB QPSK 21006+21150 50RB#0+100RB#0

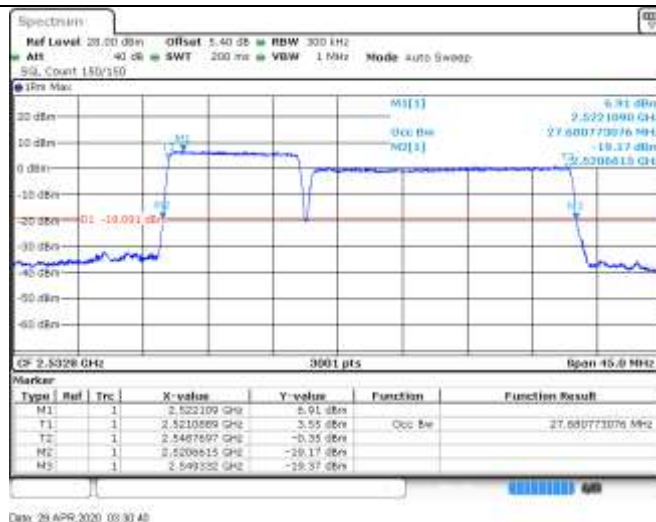


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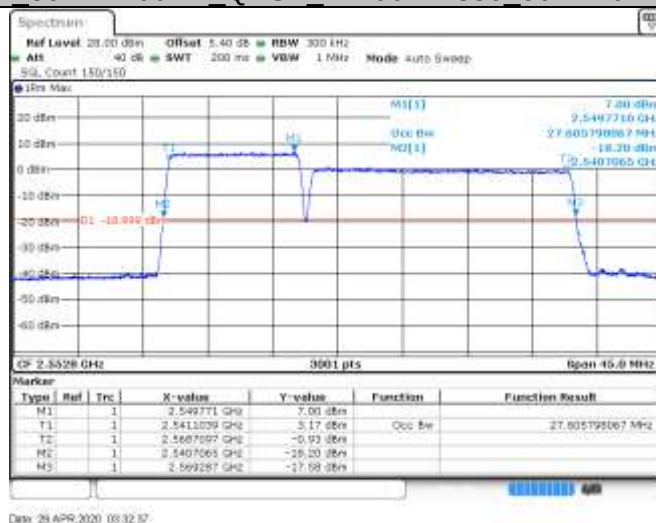
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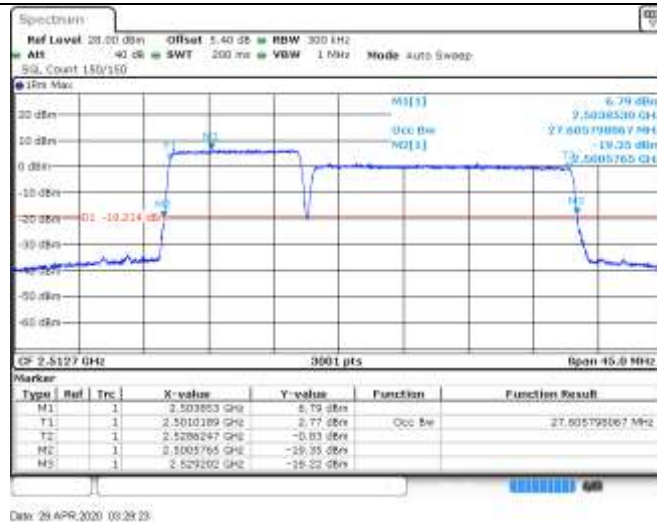


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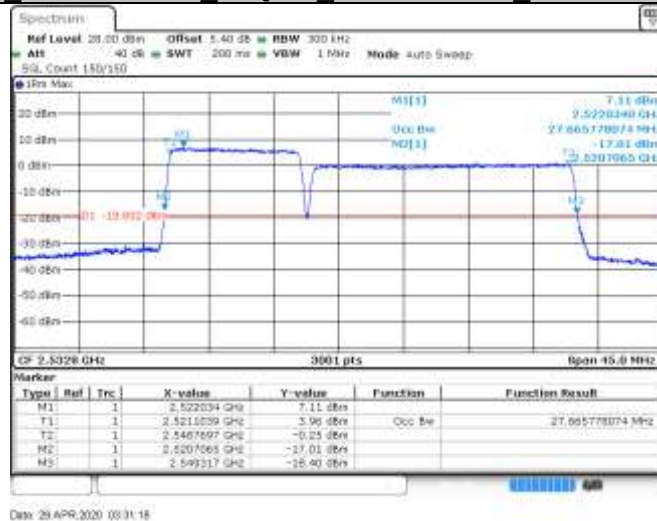
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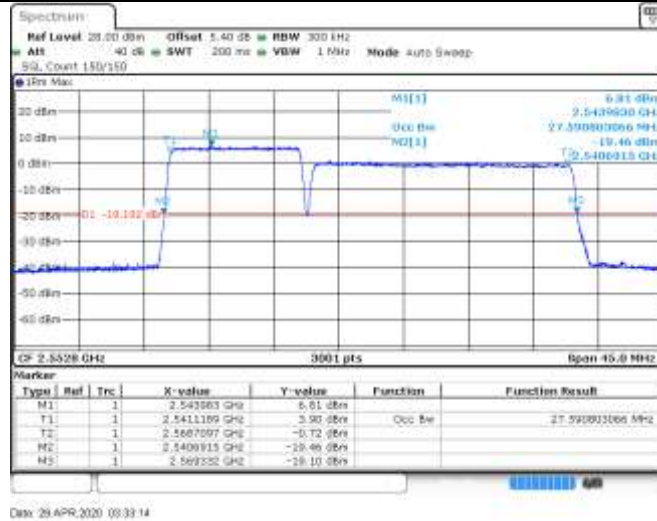
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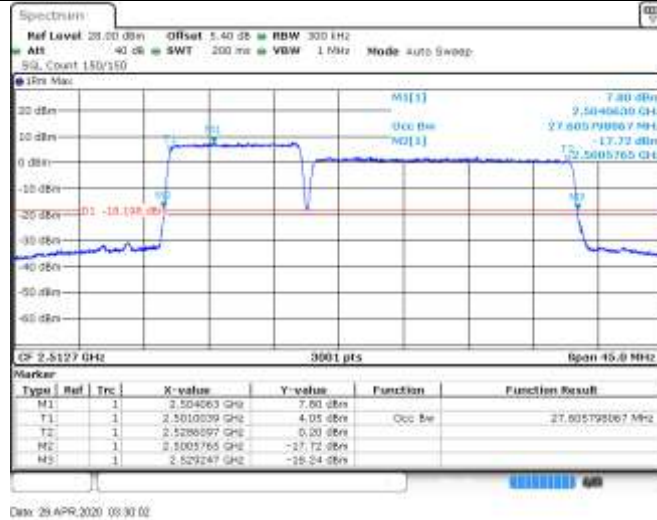
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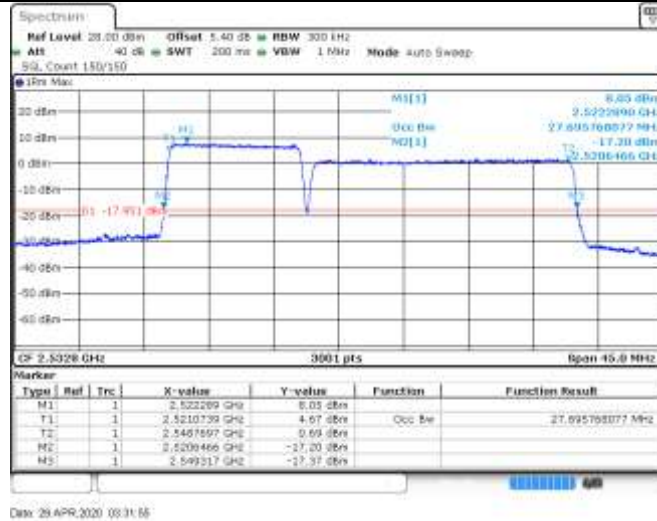


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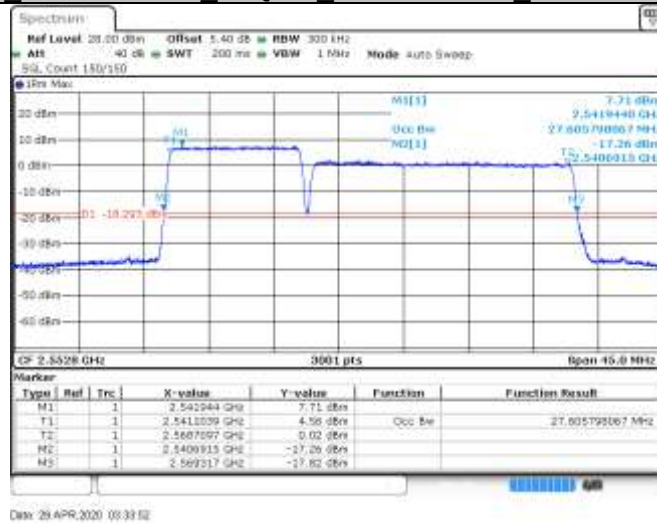


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CA 7C_75RB+50RB_QPSK_20825+20945_75RB#0+50RB#0





CA 7C_75RB+50RB QPSK 21051+21171_75RB#0+50RB#0



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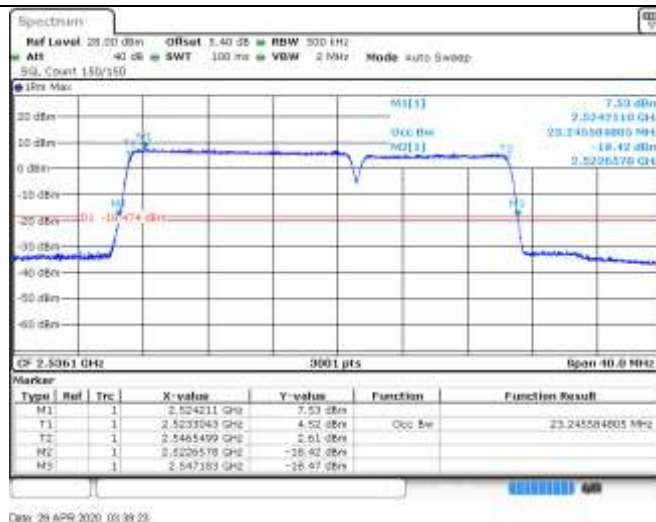
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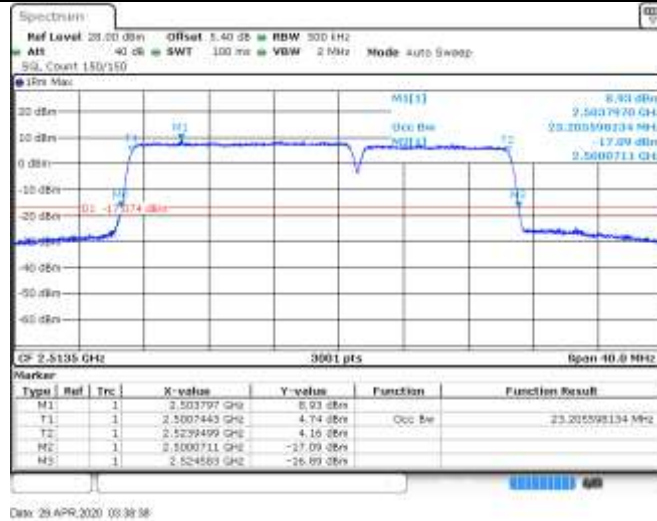
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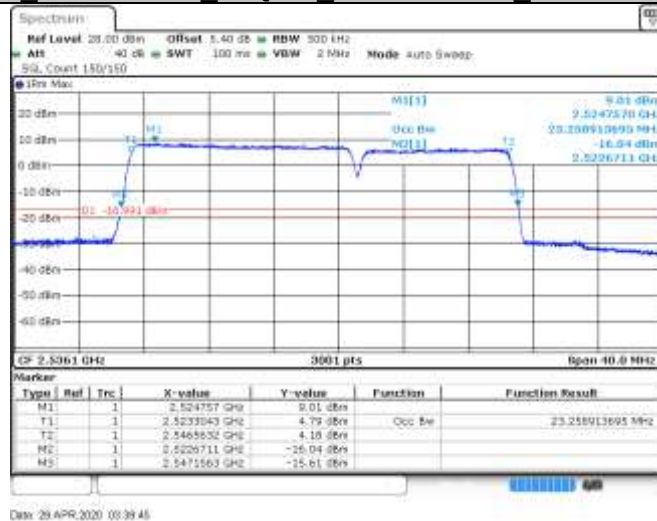
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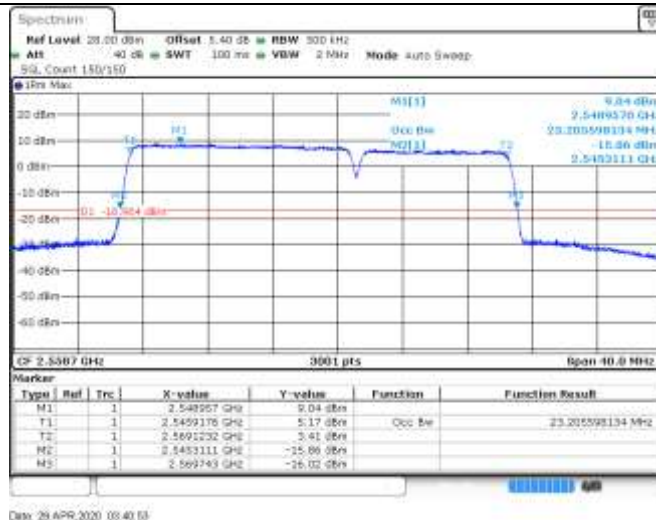


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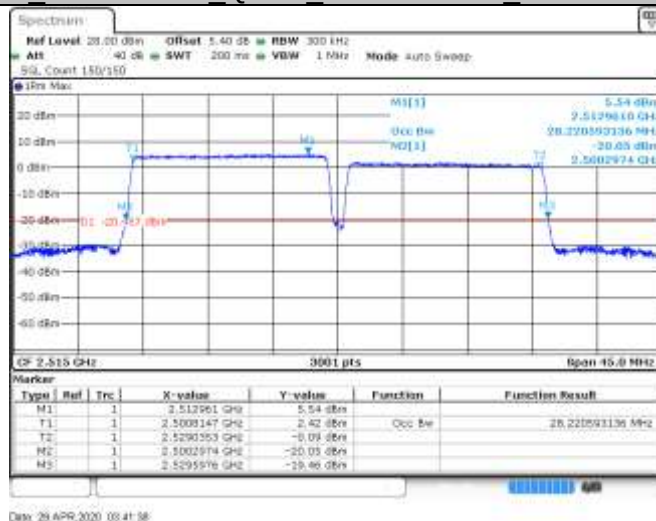


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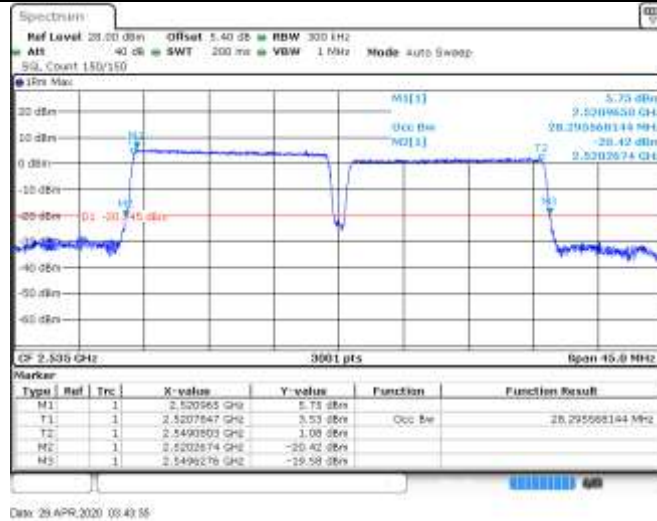


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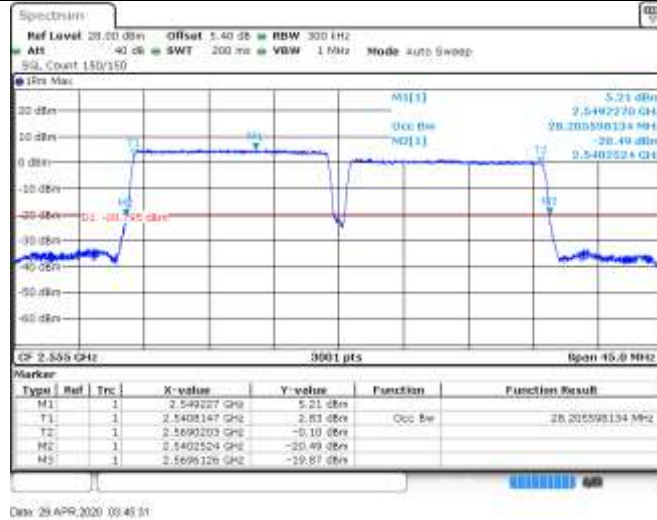


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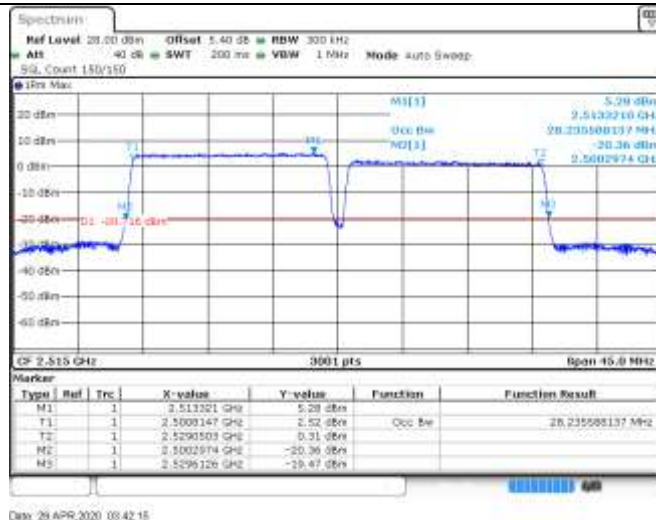


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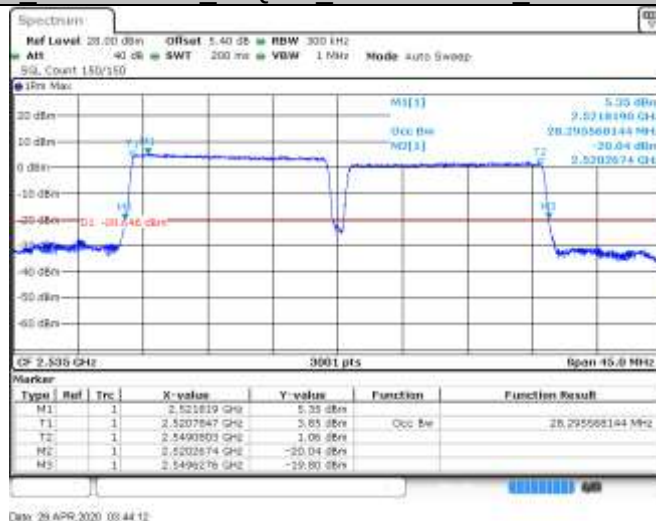
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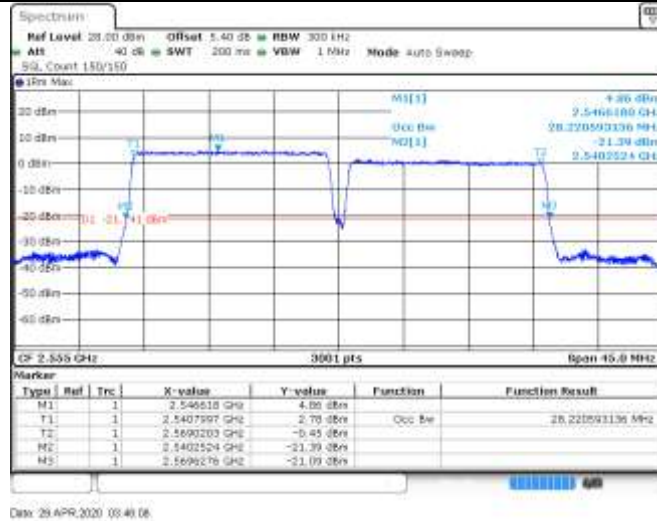
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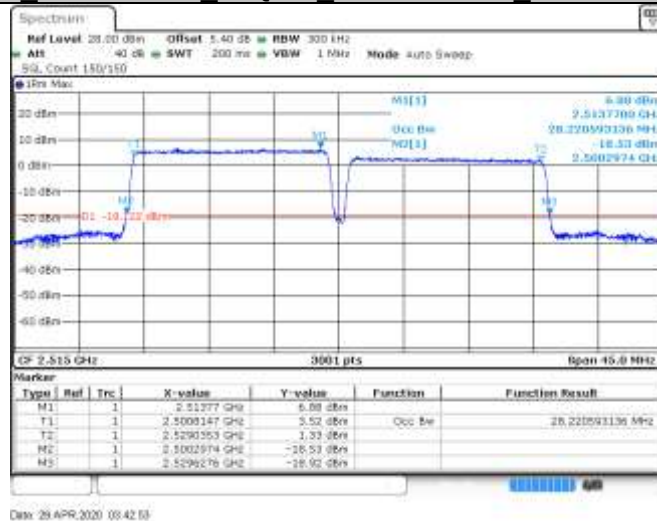
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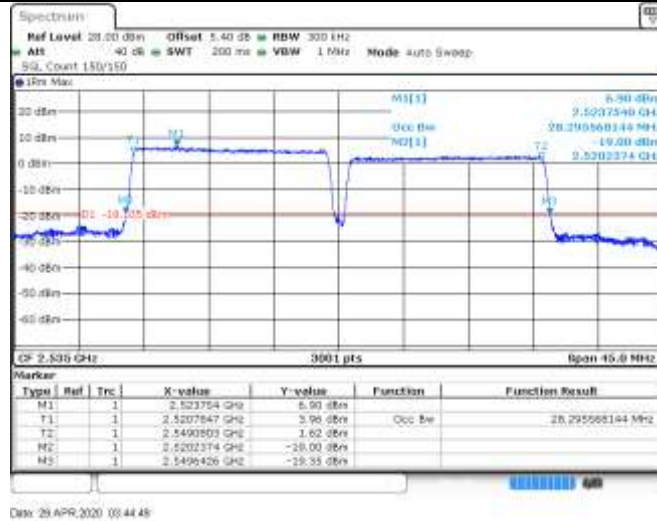
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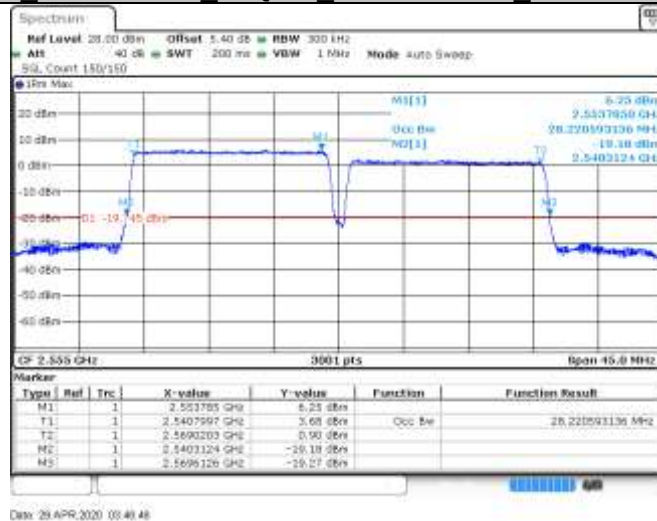
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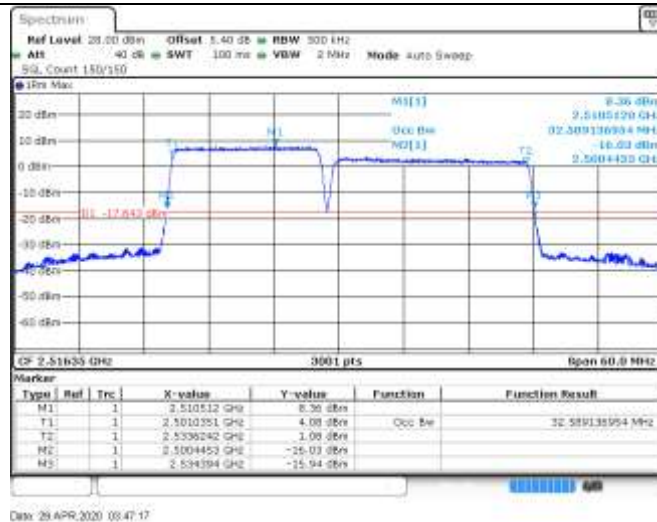


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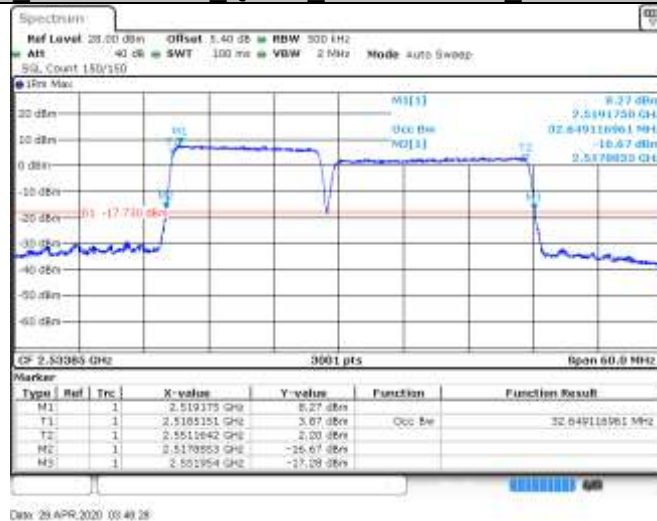


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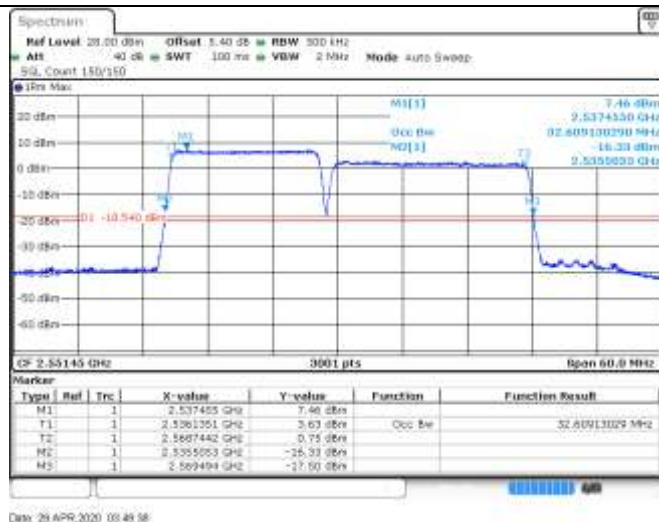


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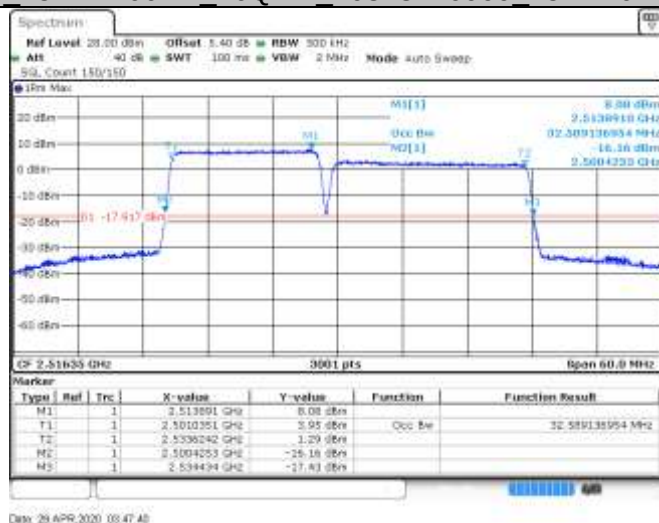


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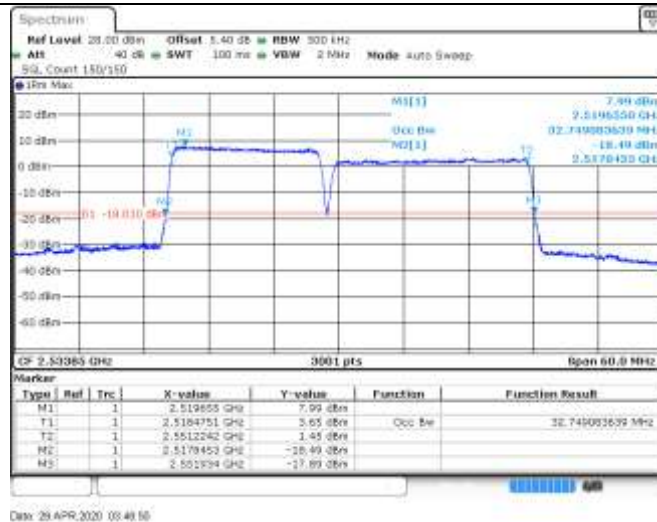


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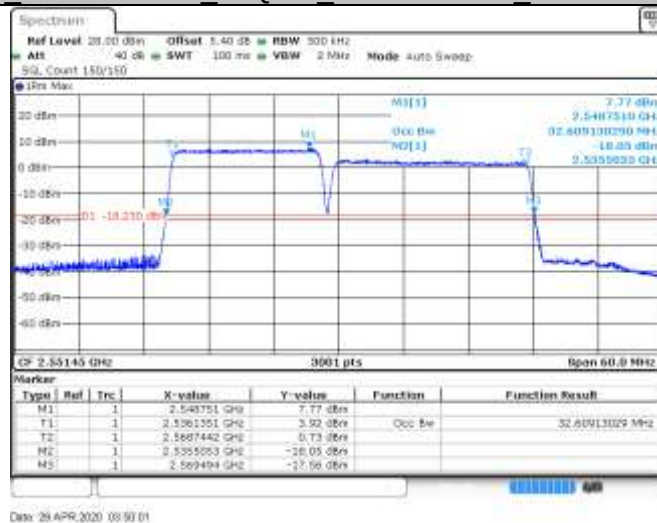


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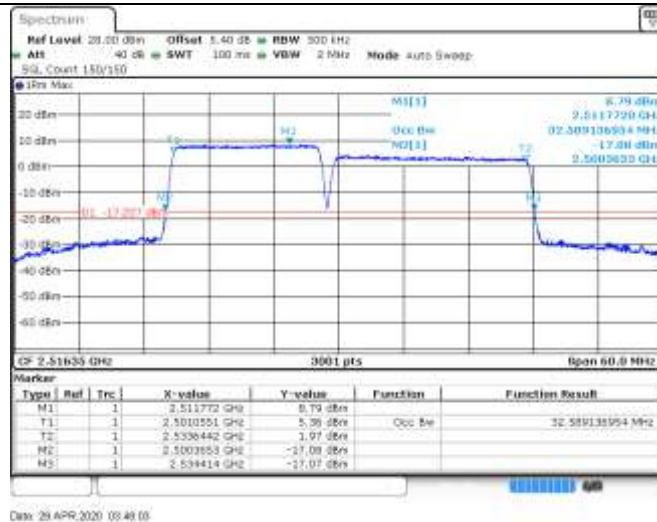


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Date: 29 APR, 2020 09:40:00

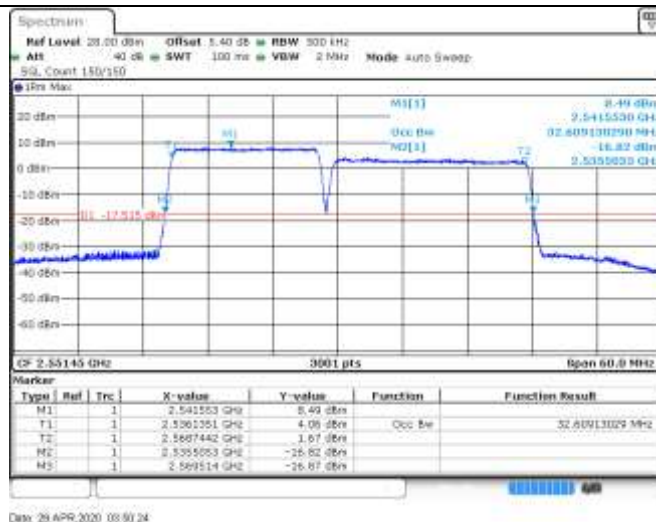
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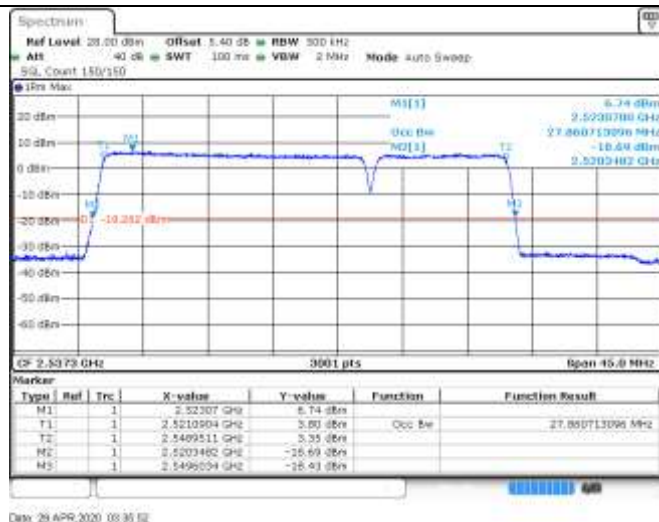
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Date: 29 APR, 2020 09:34:43

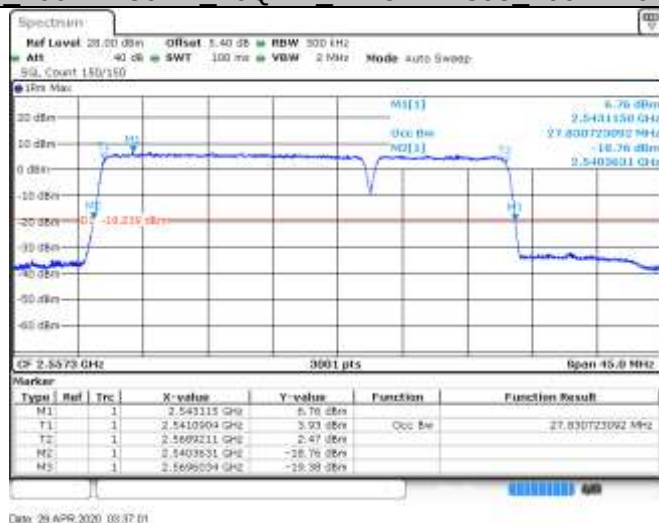
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Date: 29 APR 2020 09:35:52

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Date: 29 APR 2020 09:37:01

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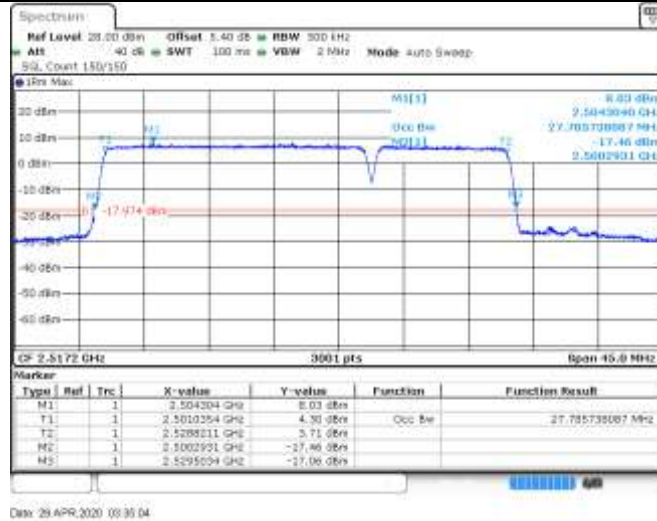


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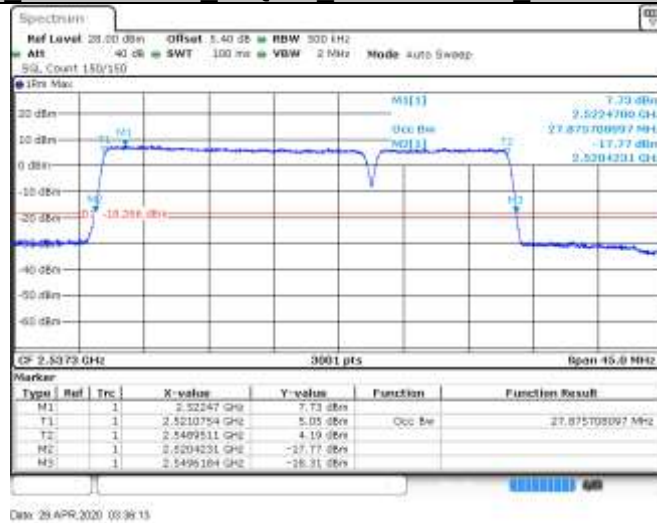
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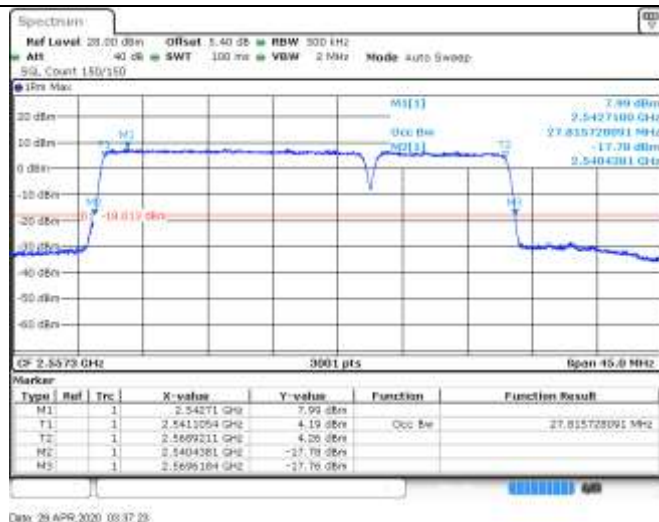


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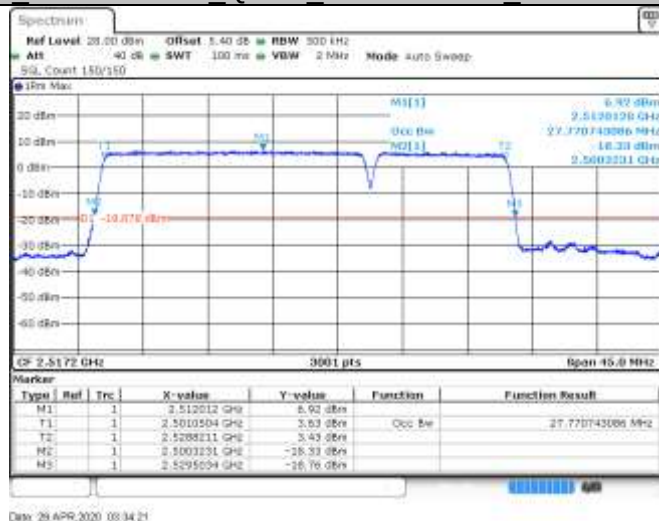


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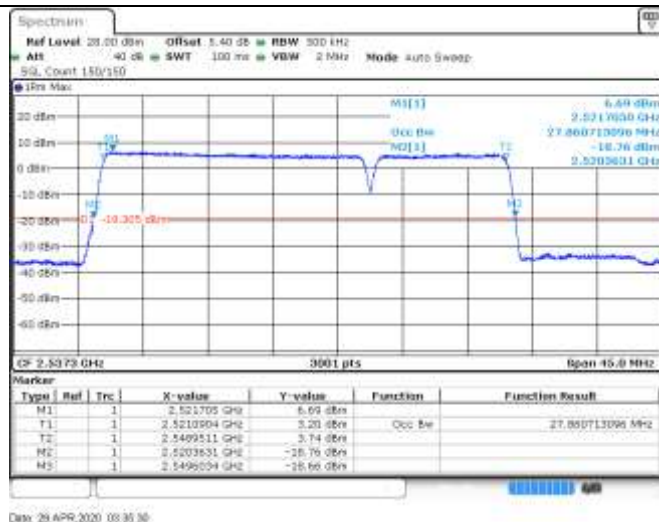


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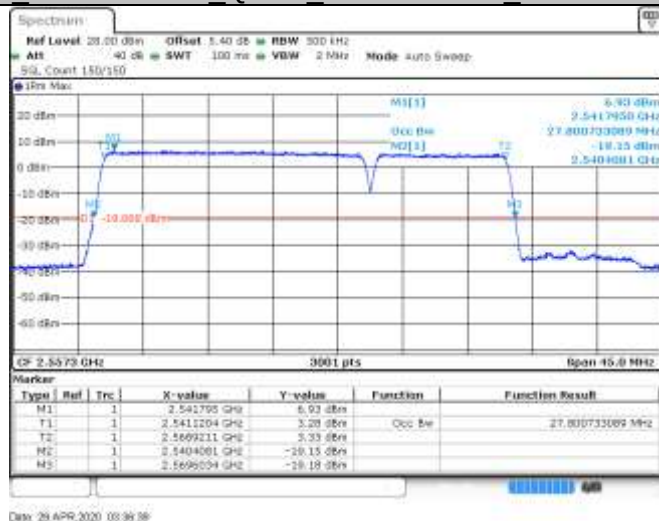


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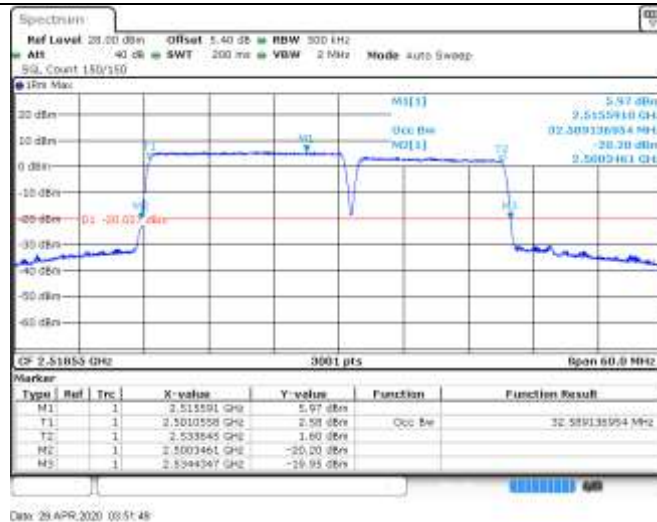


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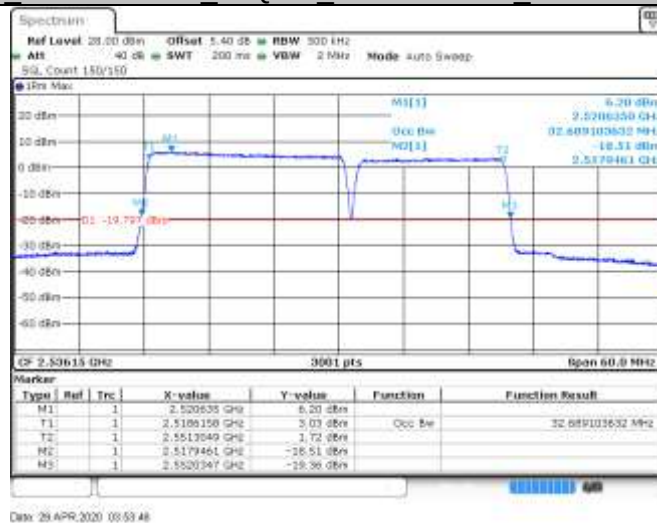


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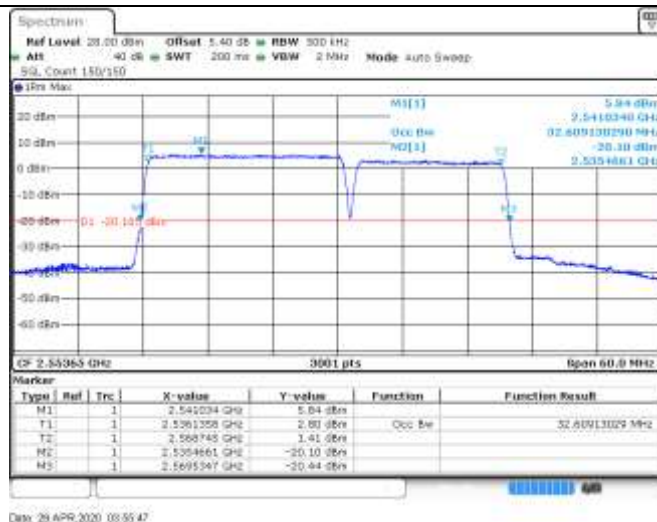


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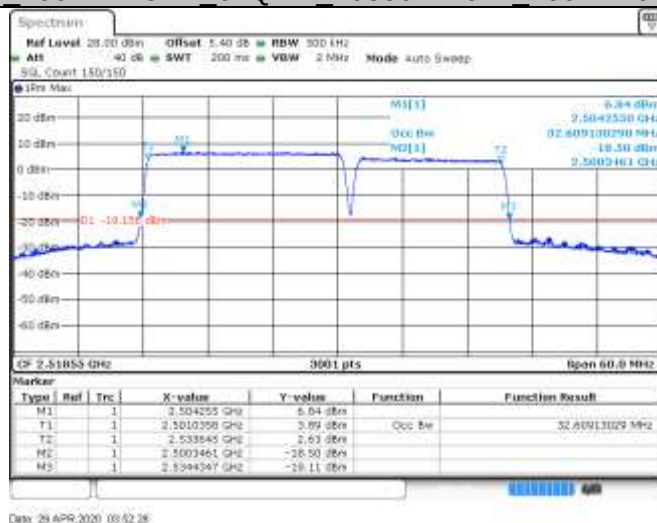
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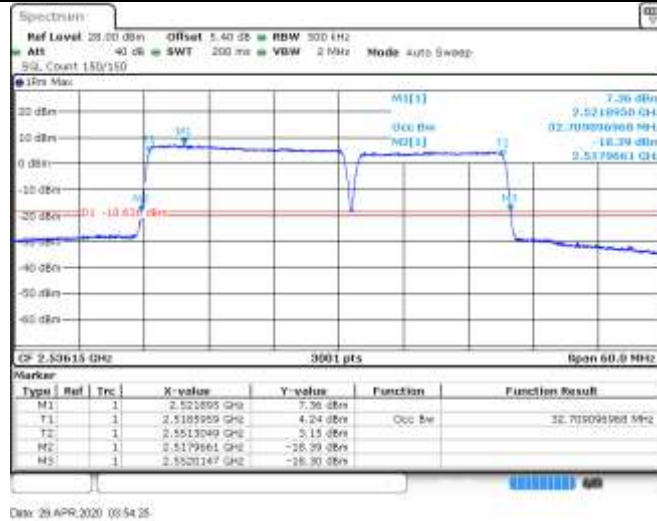
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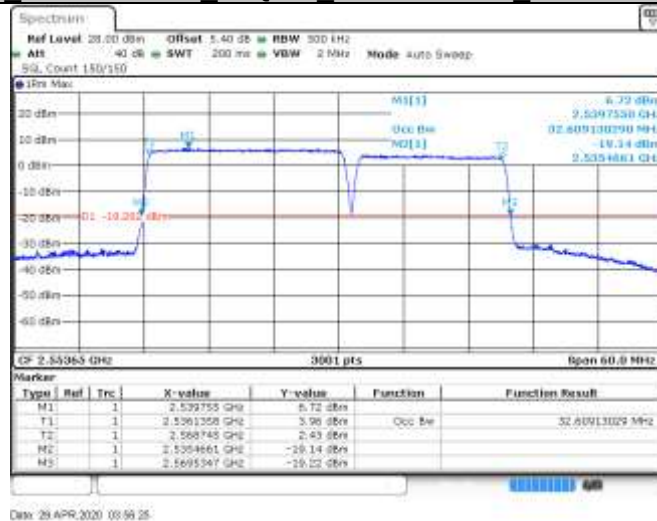
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Date: 29 APR. 2020 09:54:25

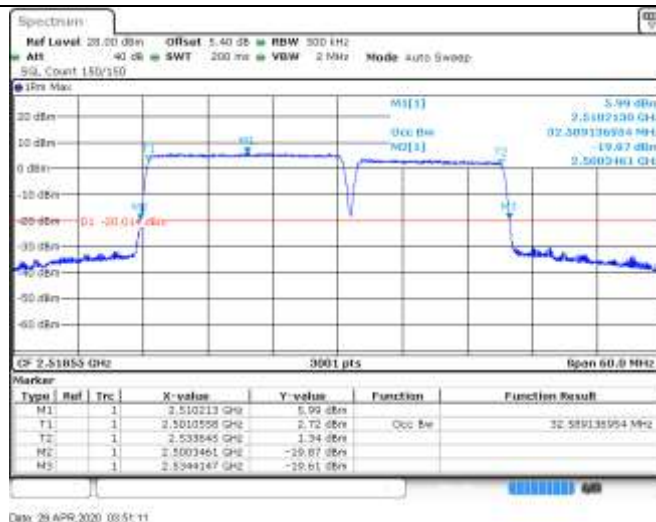
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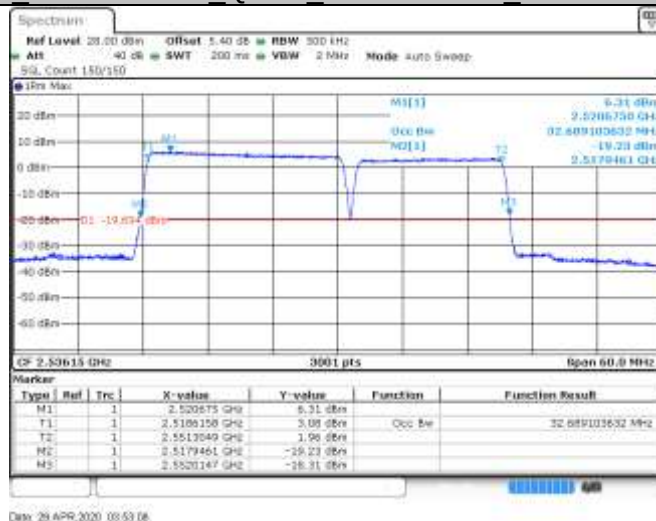
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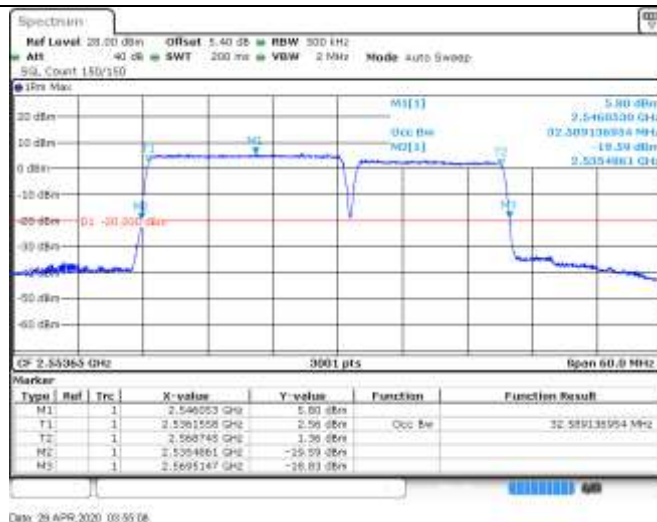


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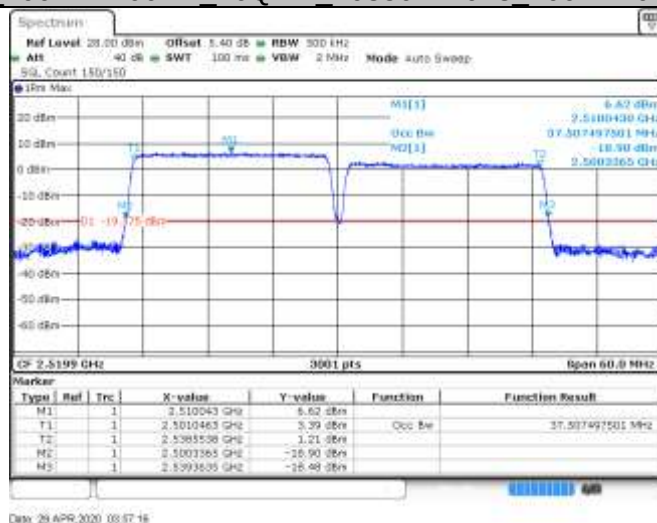


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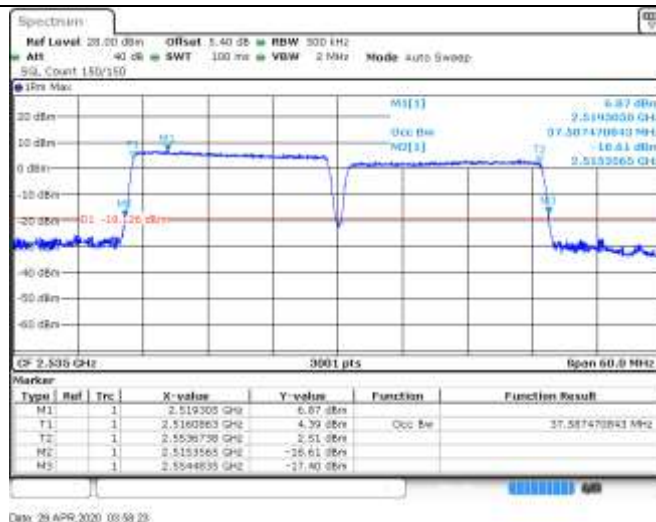


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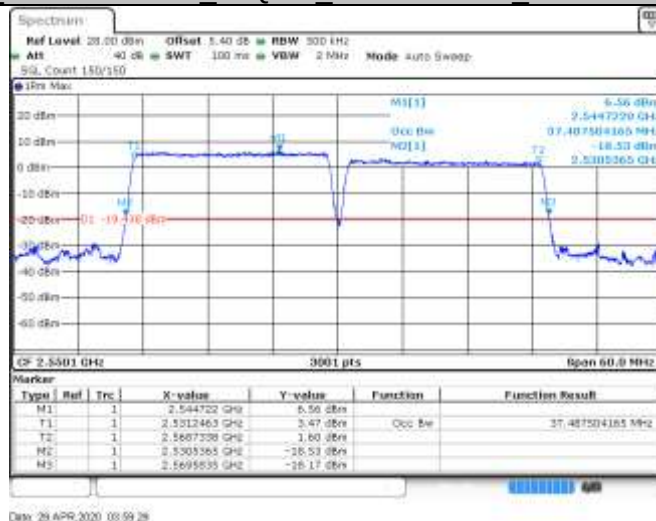
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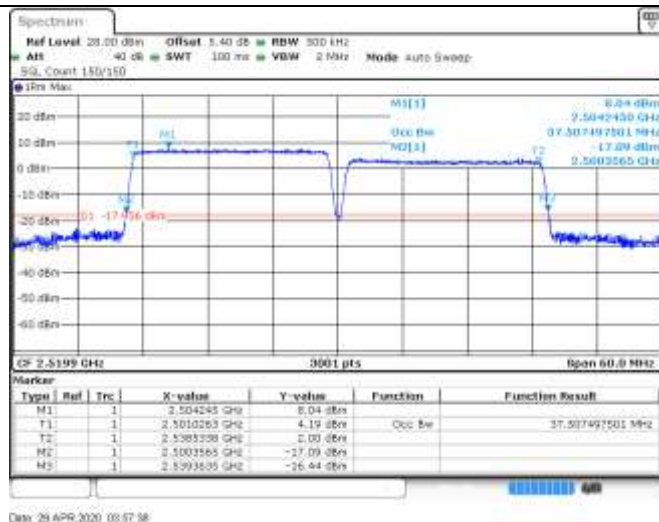
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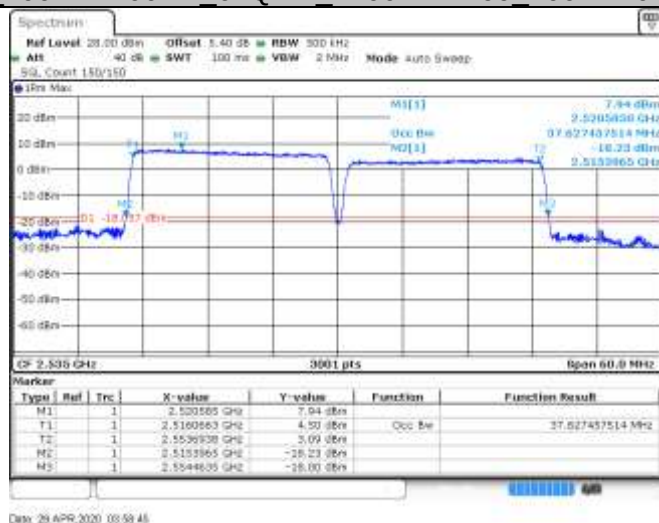
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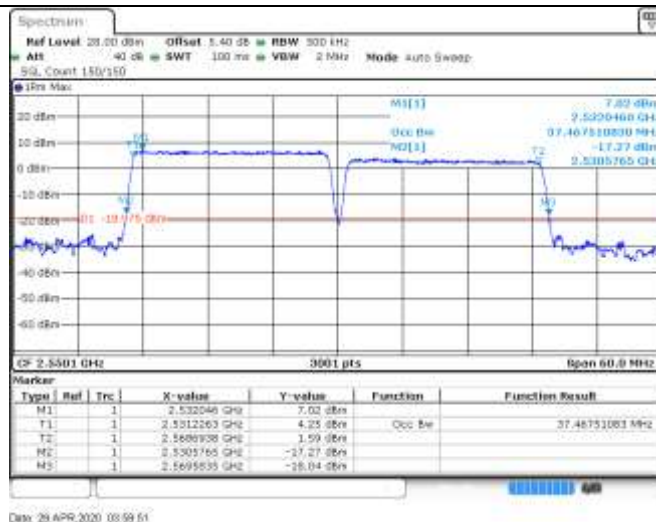
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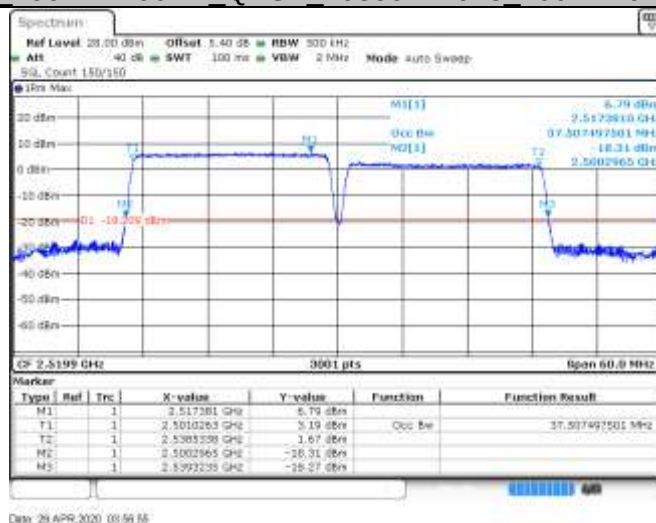
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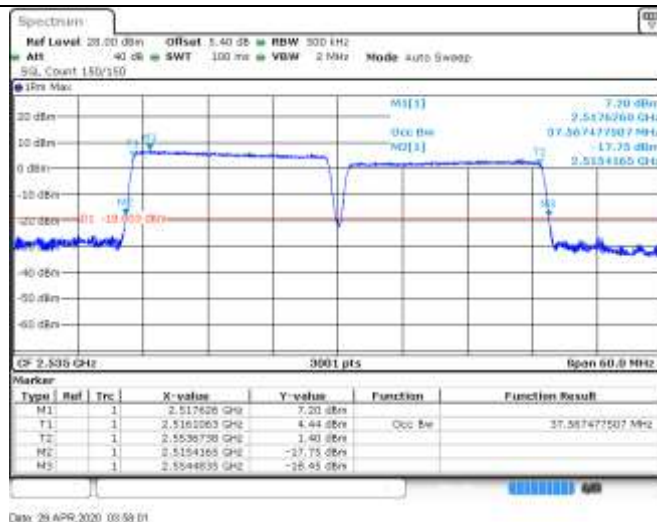


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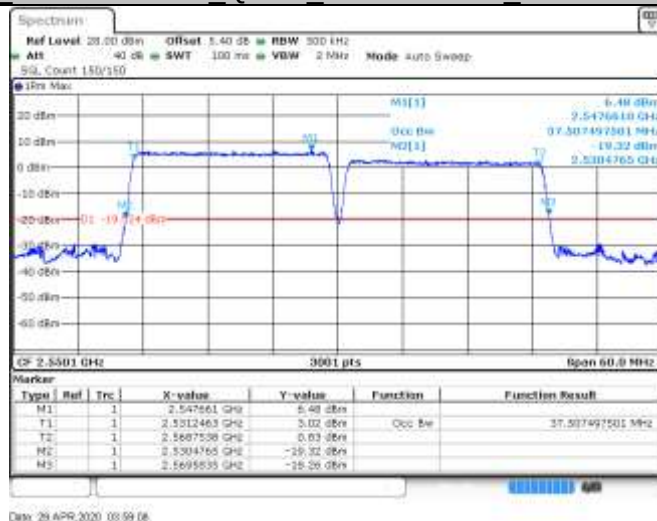
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Date: 29 APR. 2020 09:59:01

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Date: 29 APR. 2020 09:59:06



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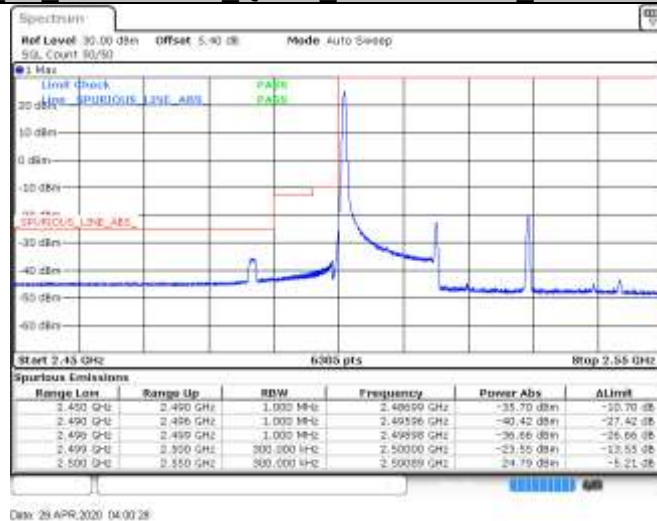
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5 Band Edges Compliance

5.1 For LTE

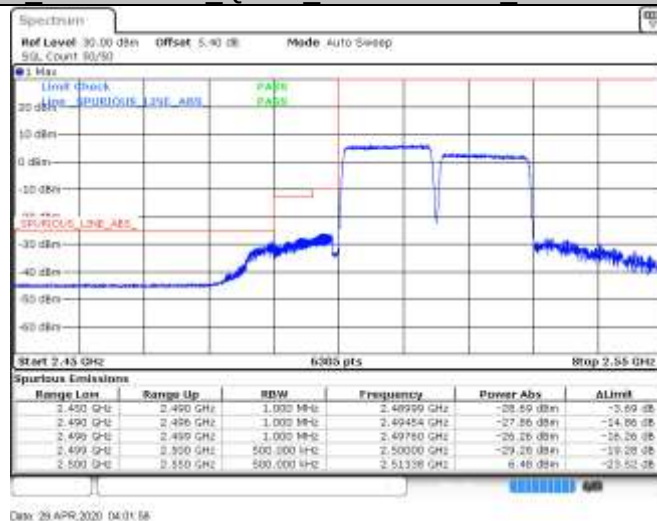
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Date: 29 APR 2020 04:00:28

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Date: 29 APR 2020 04:01:58

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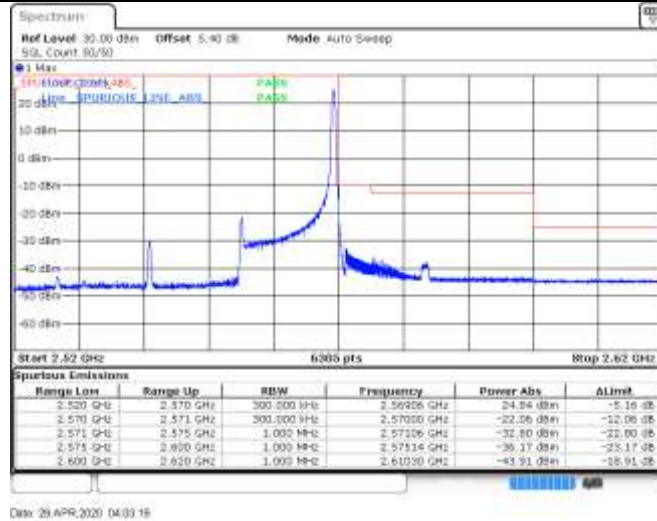
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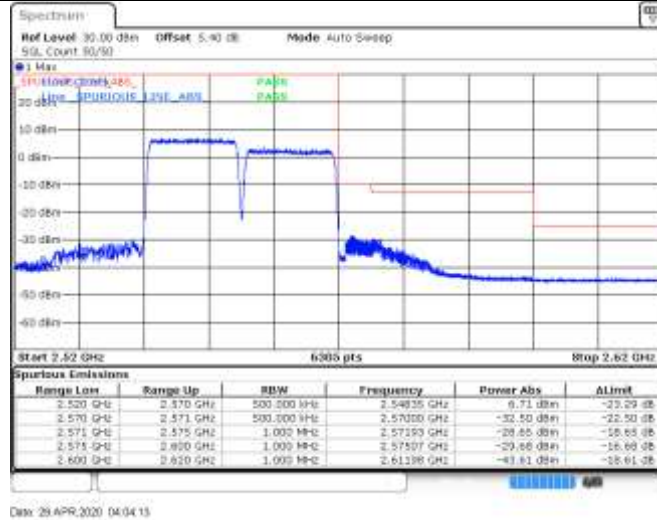
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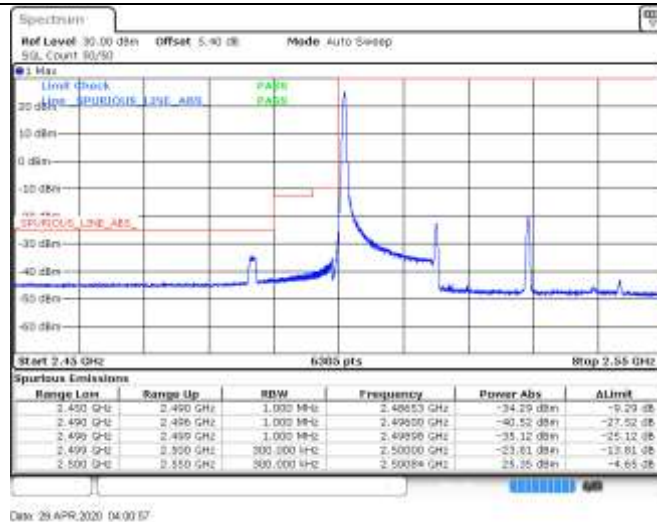


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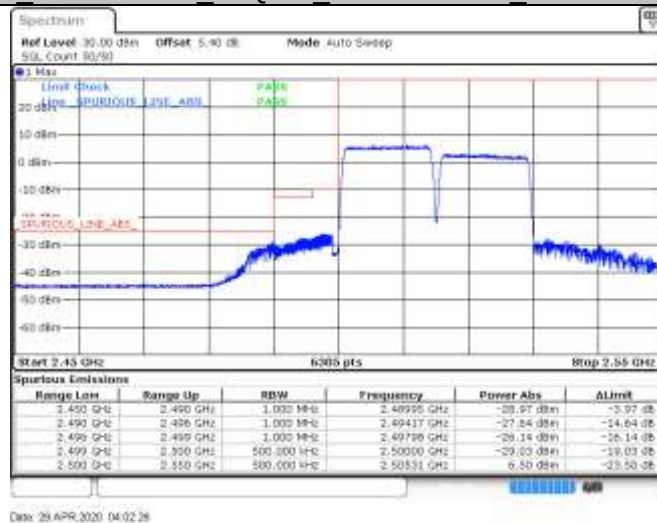


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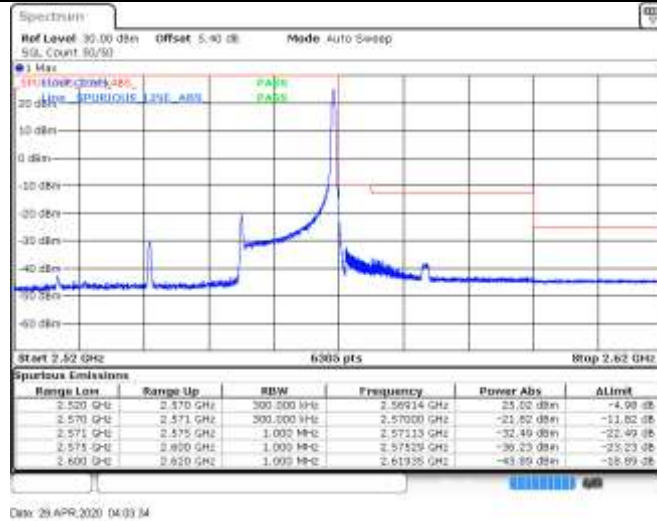


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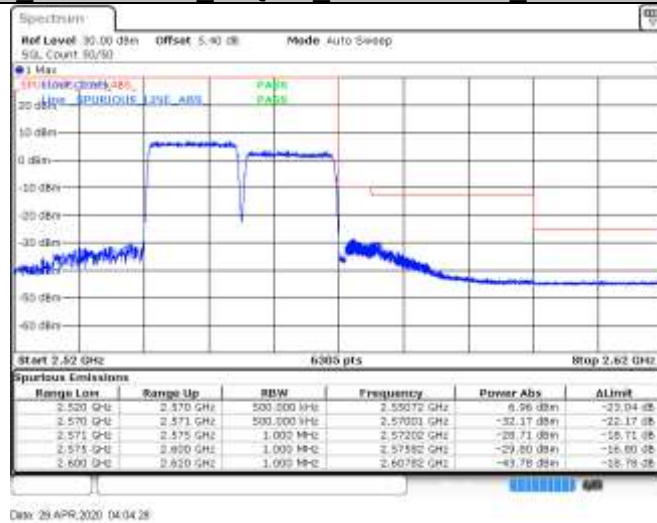


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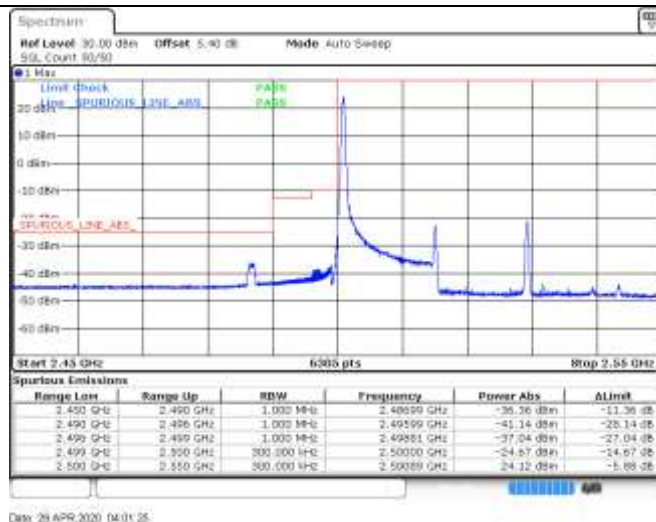


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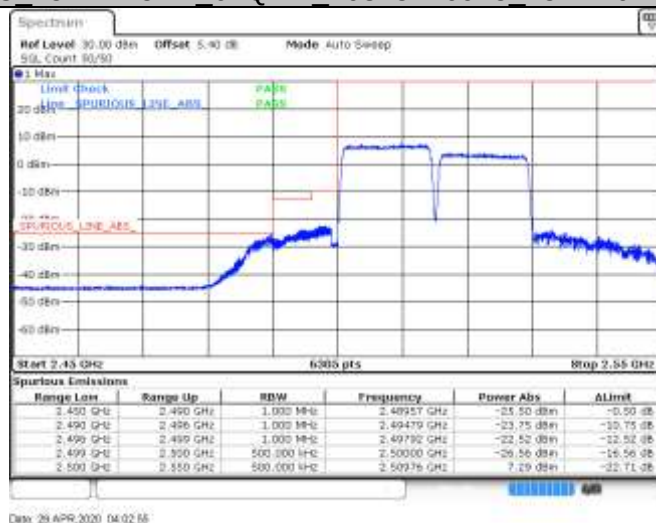


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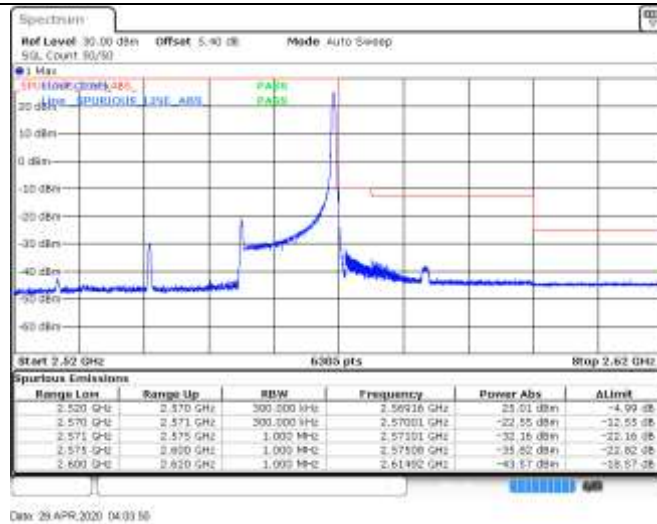


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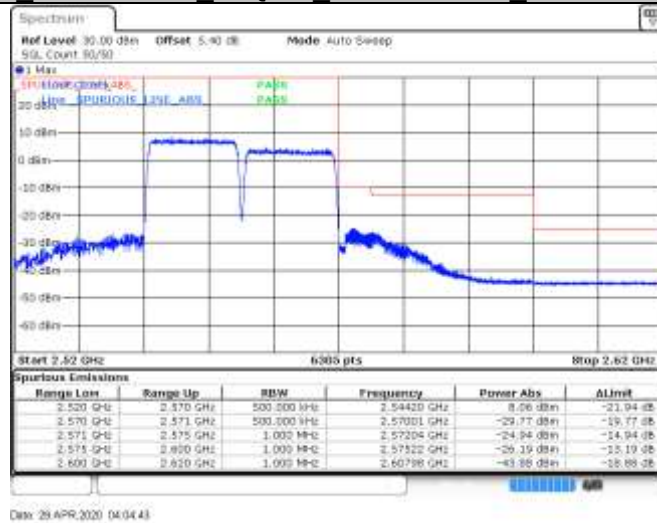


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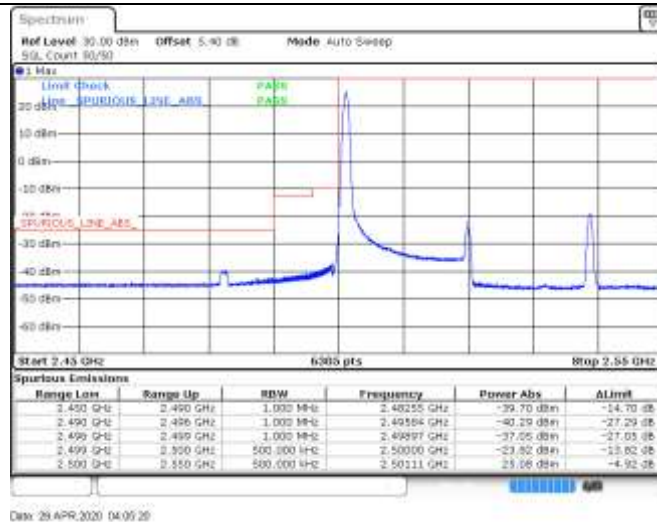


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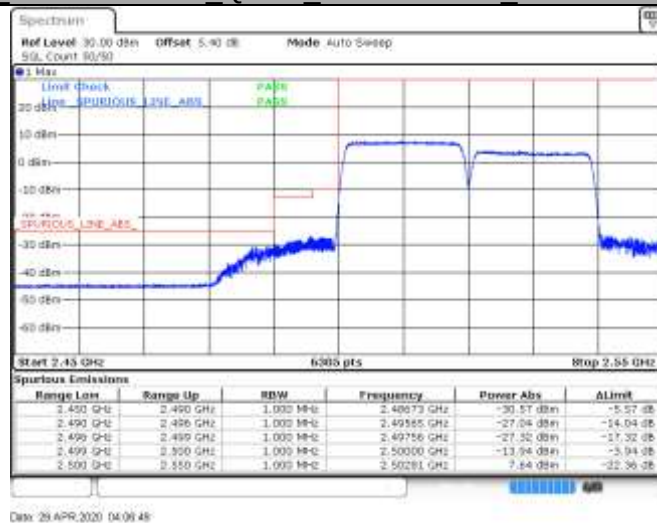


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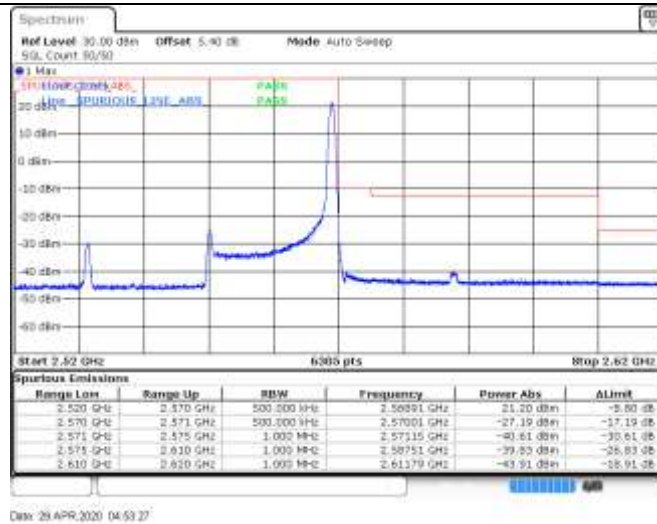


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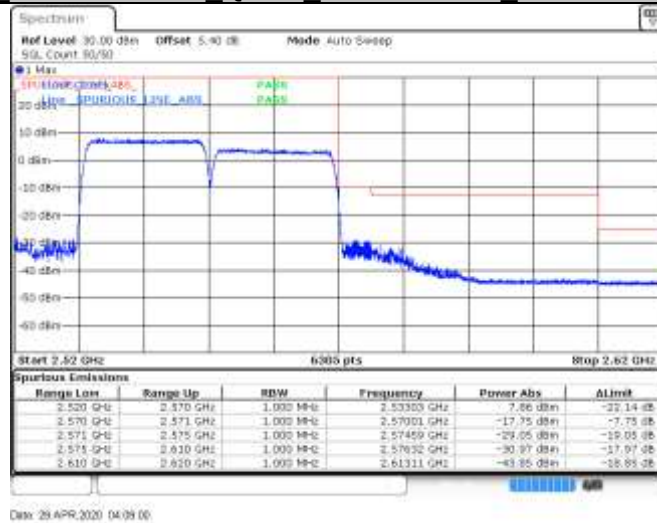


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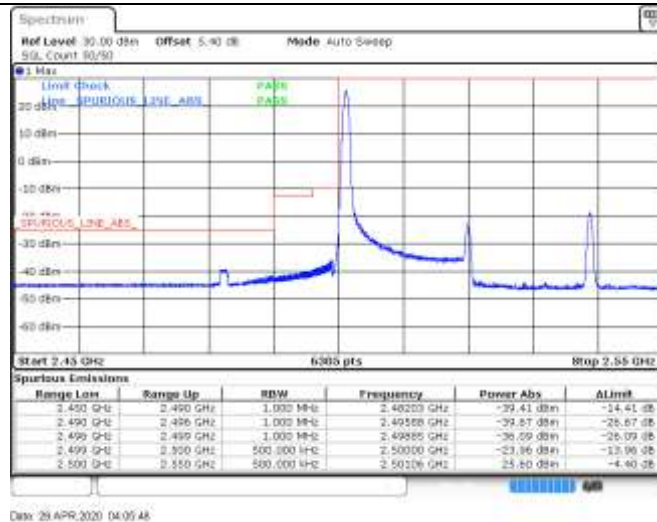


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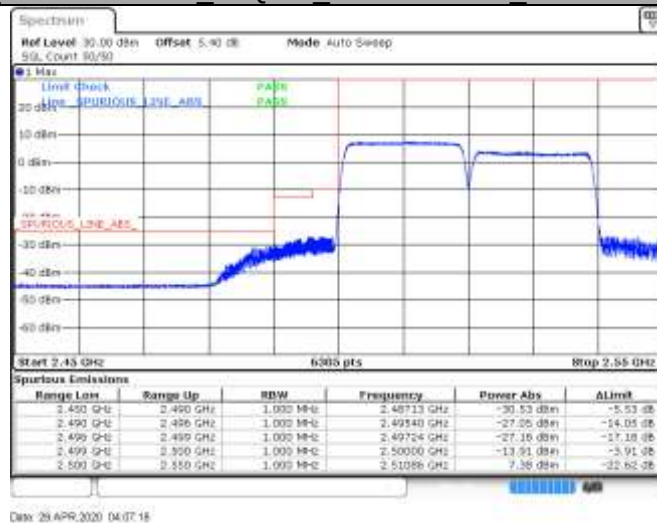


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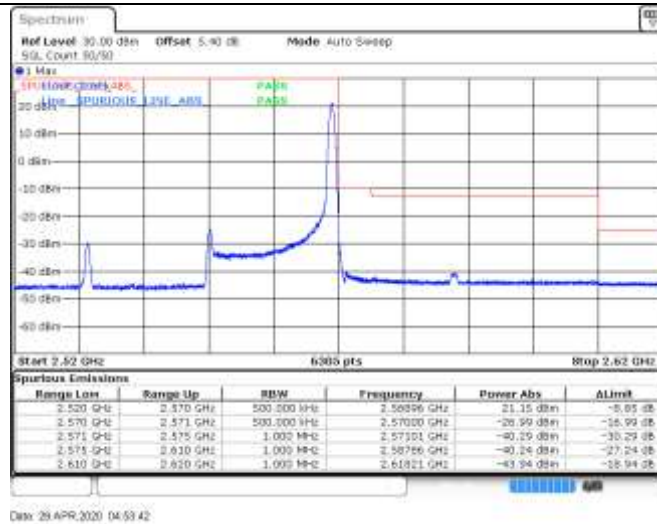


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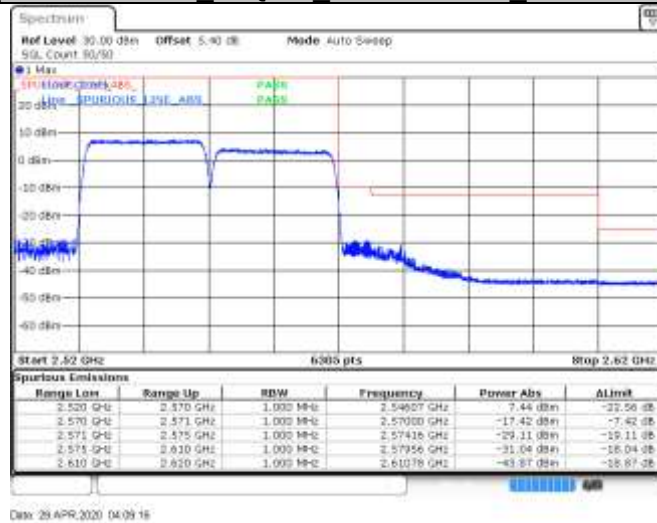


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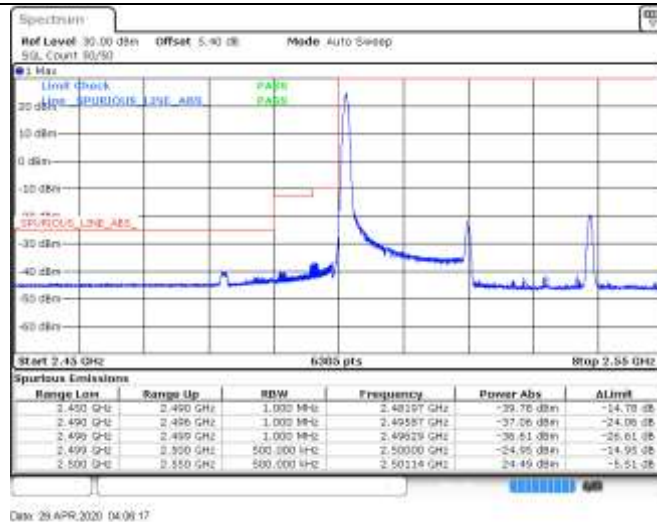


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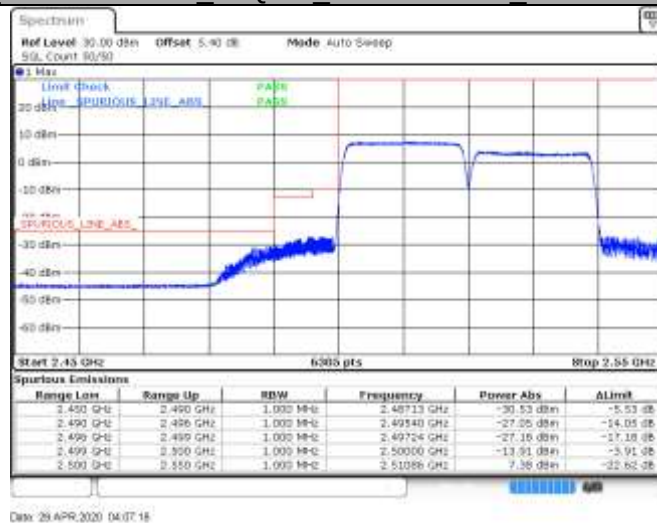


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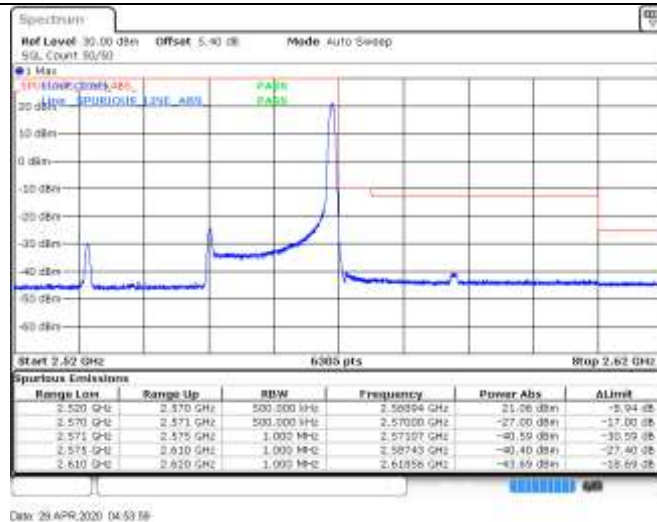


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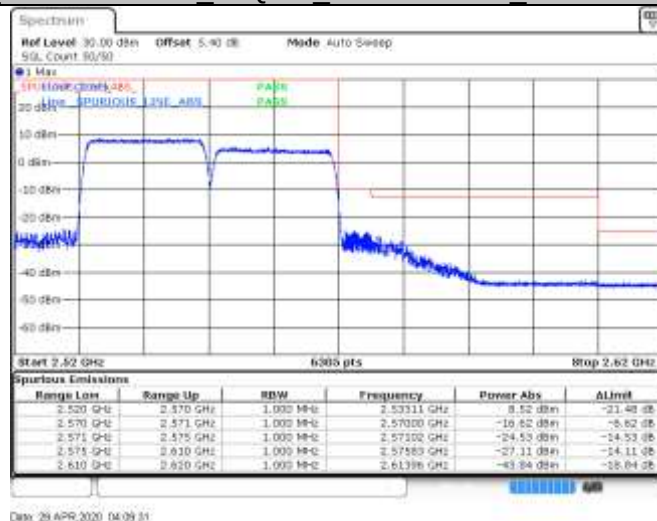
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Date: 29 APR. 2020 04:53:58

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Date: 29 APR. 2020 04:09:31



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6 Spurious Emission at Antenna Terminal

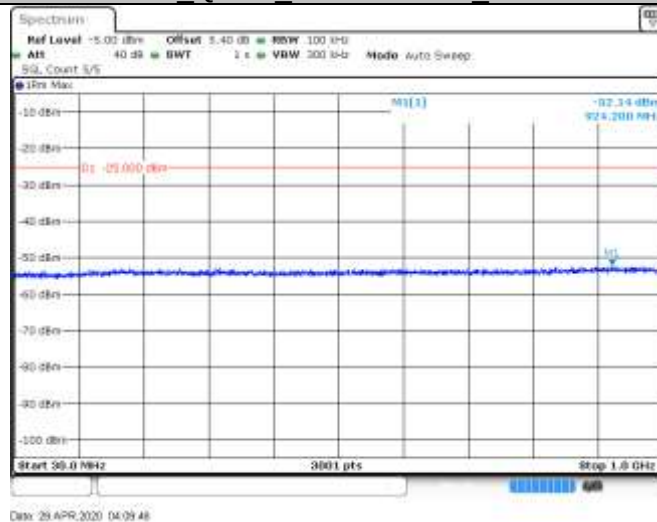
NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

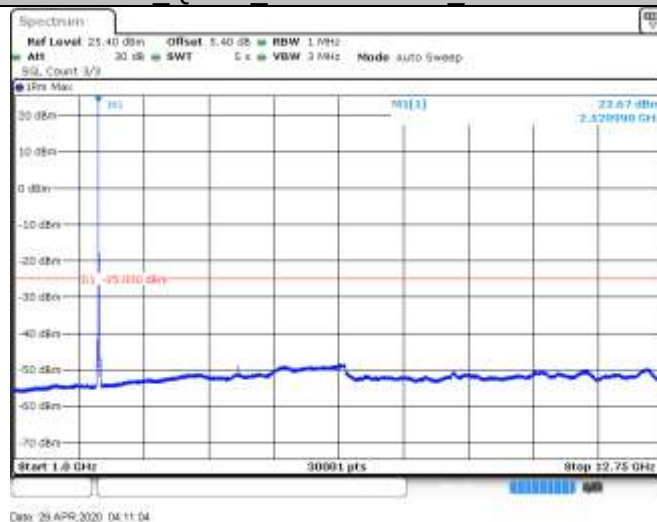
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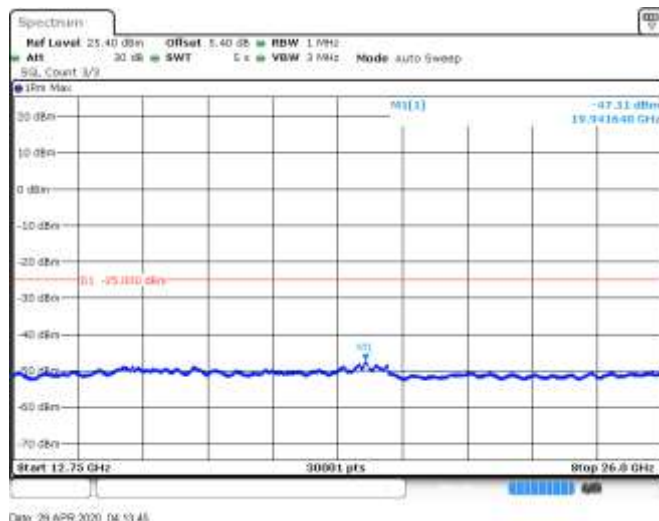


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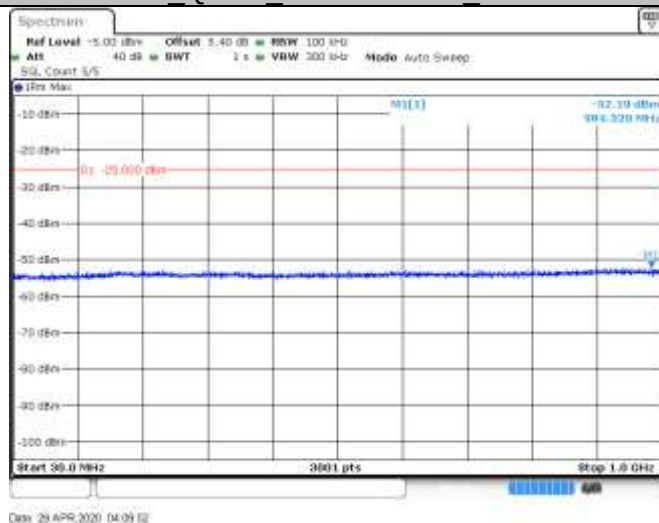
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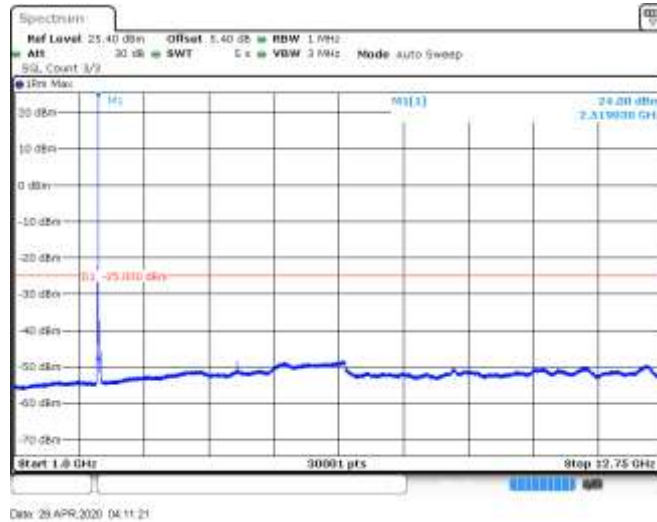


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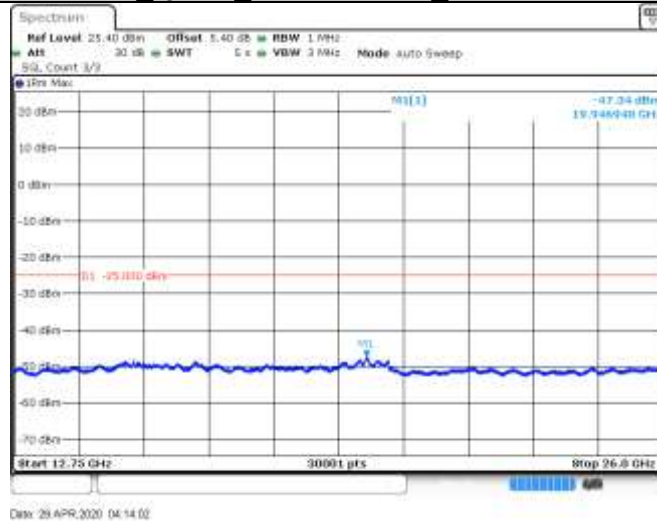


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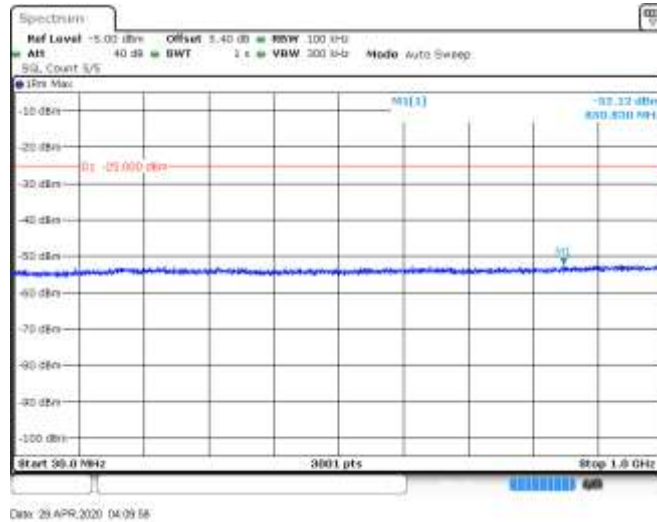


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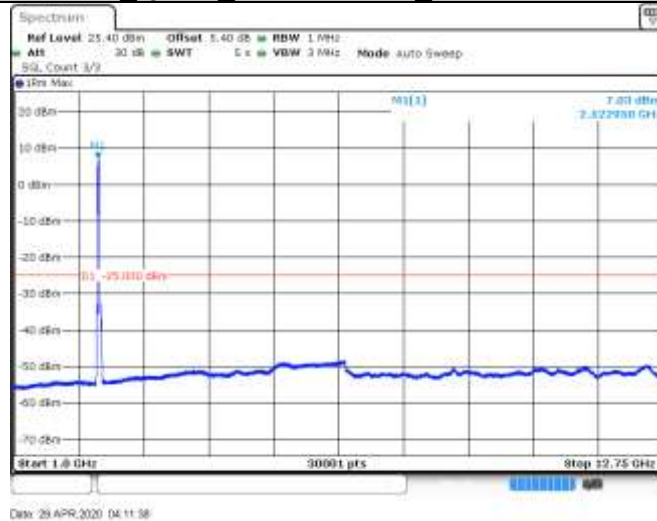
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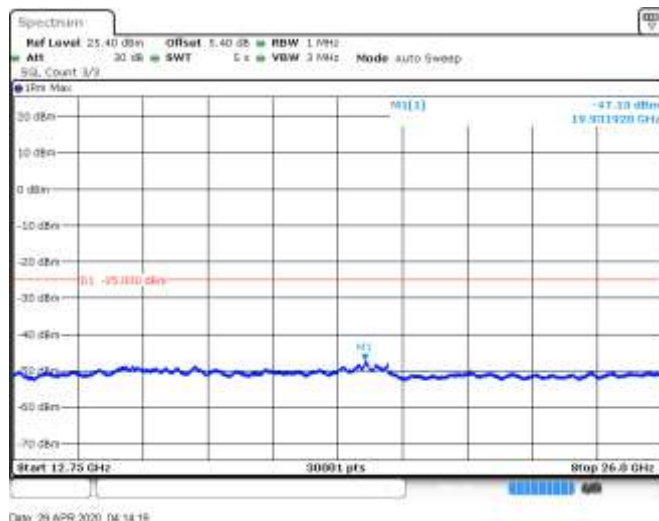


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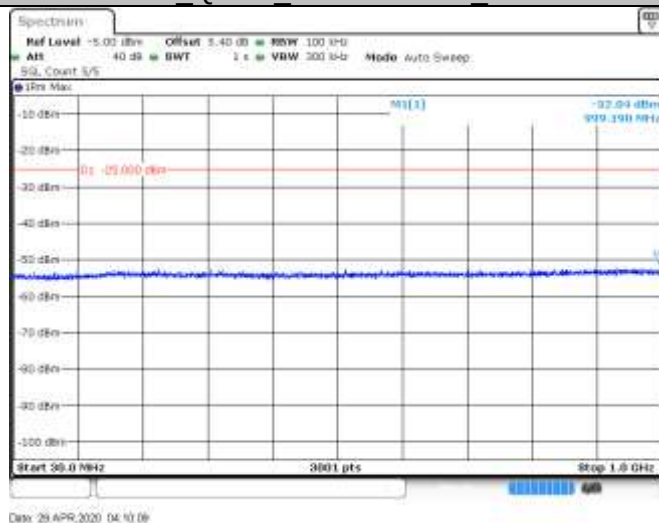
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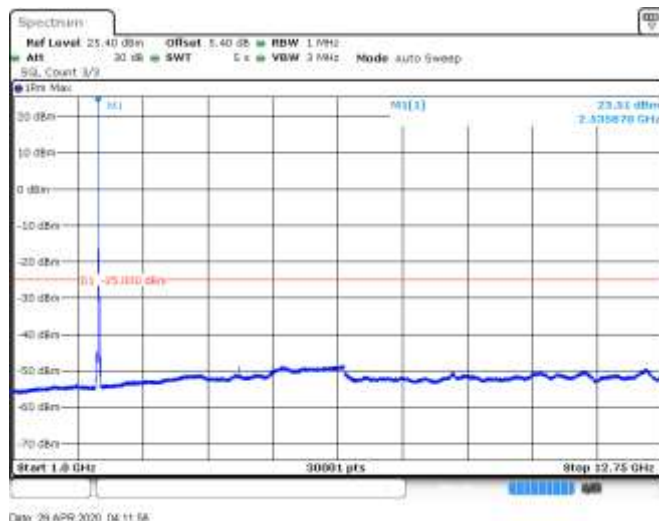


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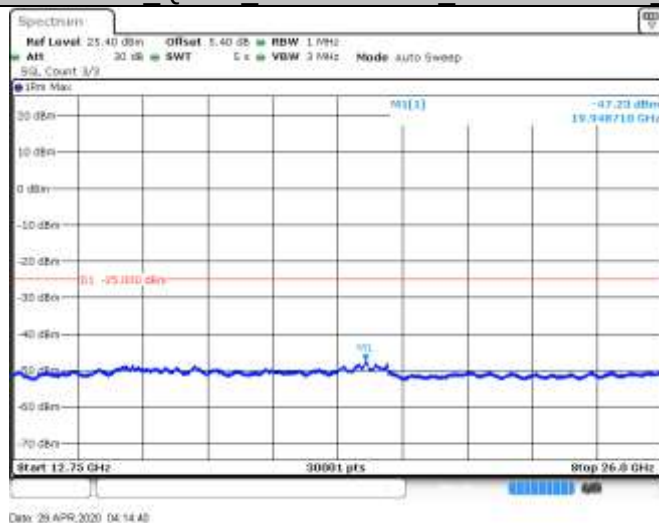


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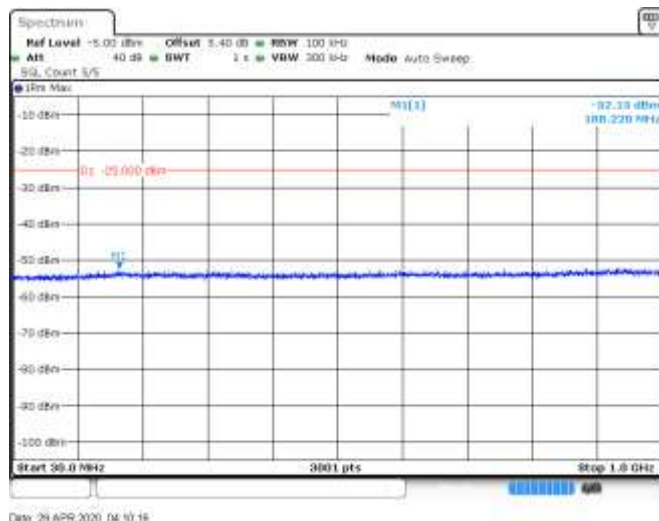


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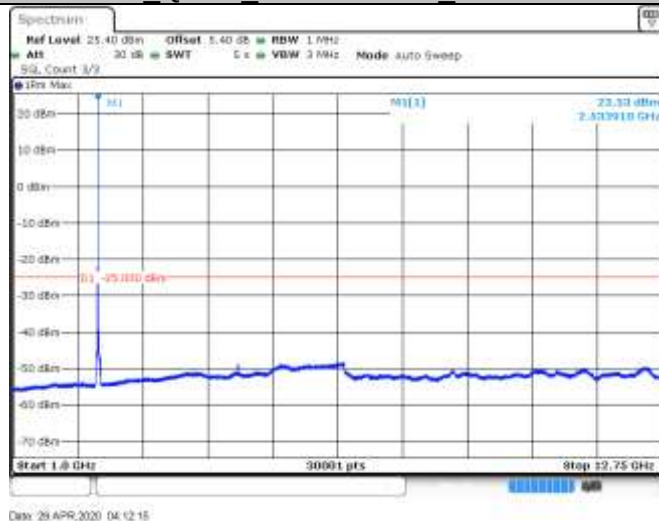


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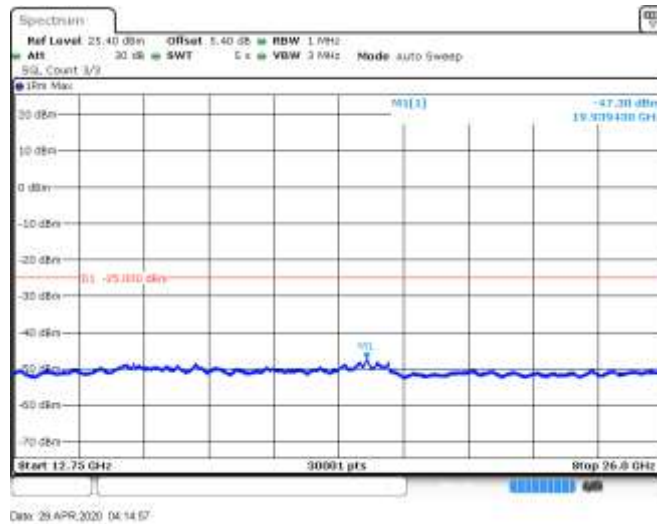


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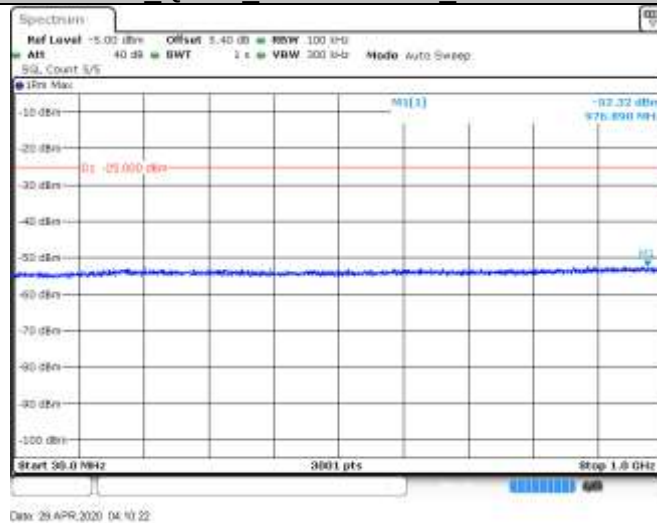
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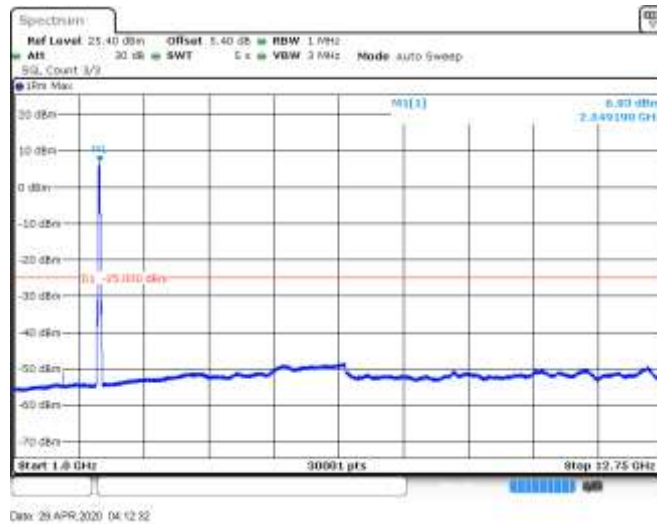
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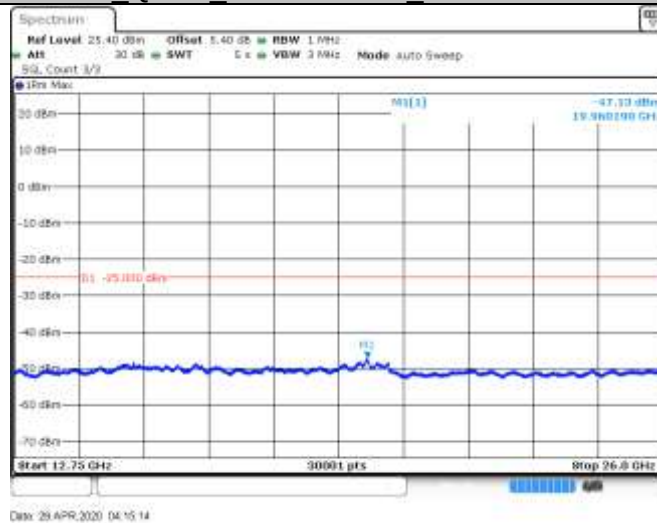
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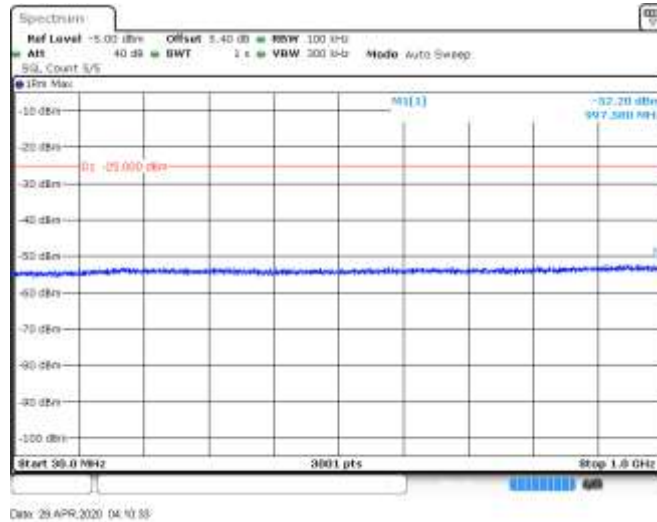


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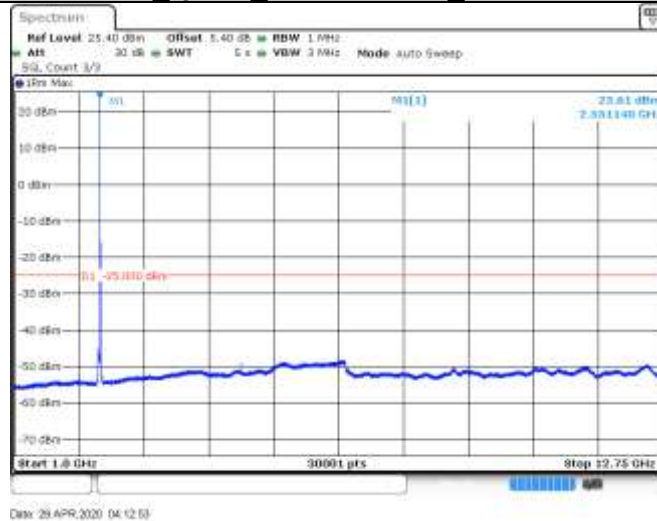
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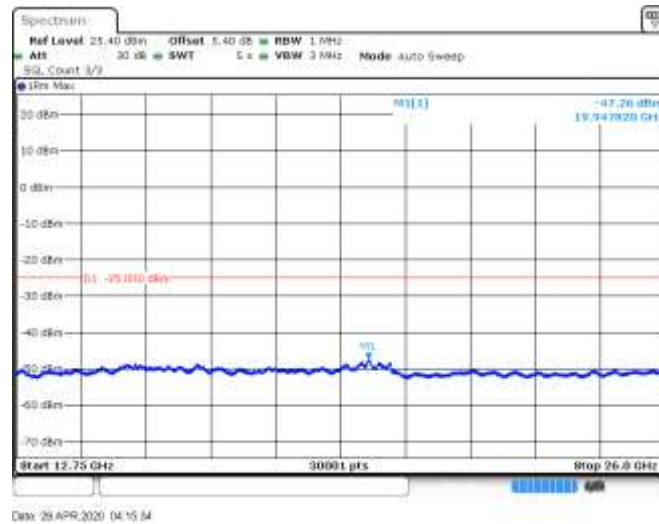


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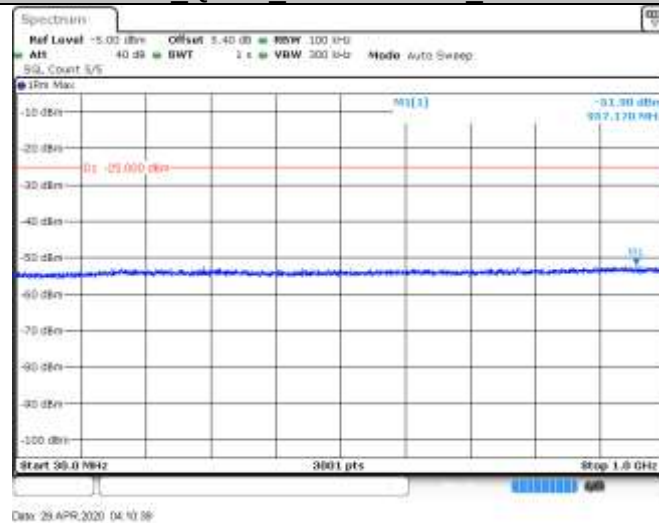
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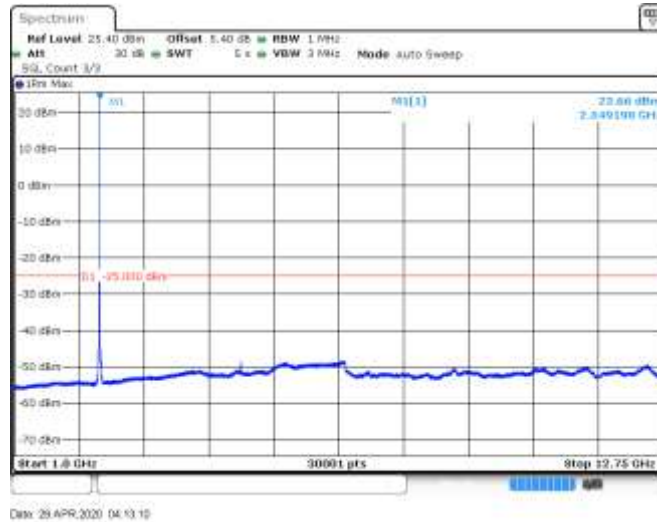


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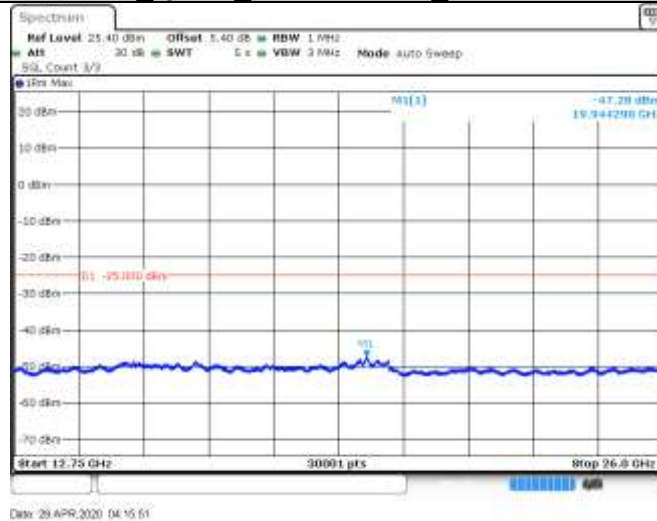
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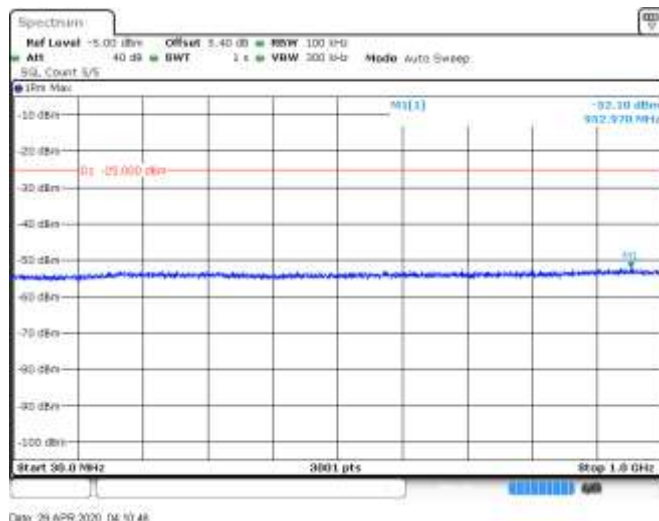


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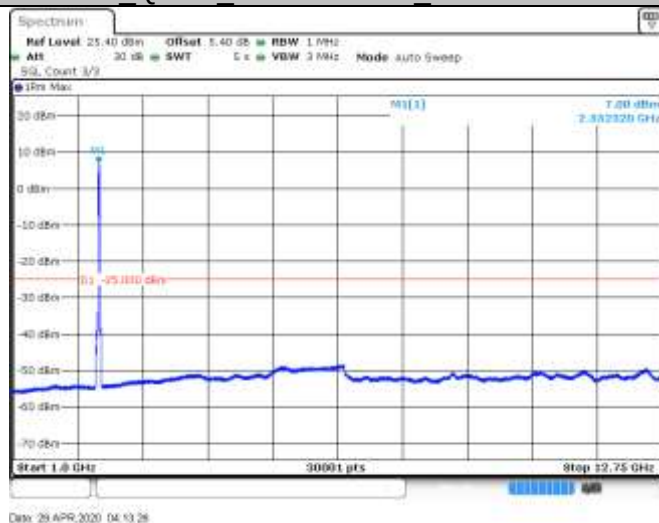
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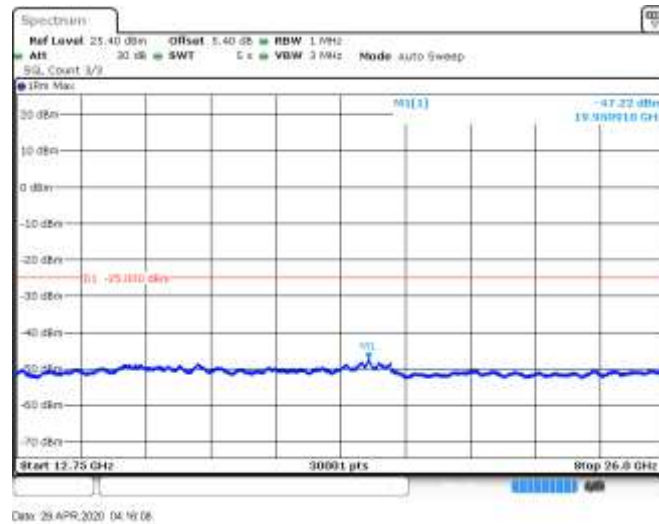
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7 Field Strength of Spurious Radiation

7.1 For LTE UL CA

7.1.1 Test Band = LTE Band CA_7C

7.1.1.1 Test Mode =LTE/QPSK

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.1666	-64.21	-25.00	39.21	Vertical
668.1305	-62.95	-25.00	37.95	Vertical
1677.7954	-43.87	-25.00	18.87	Vertical
7444.9452	-56.73	-25.00	31.73	Vertical
14581.0336	-48.32	-25.00	23.32	Vertical
17998.2301	-39.86	-25.00	14.86	Vertical
44.8265	-64.38	-25.00	39.38	Horizontal
243.7400	-66.64	-25.00	41.64	Horizontal
1643.5192	-43.94	-25.00	18.94	Horizontal
7463.7404	-56.42	-25.00	31.42	Horizontal
16399.3942	-43.91	-25.00	18.91	Horizontal
18000.5509	-45.04	-25.00	20.04	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
108.1864	-66.08	-25.00	41.08	Vertical
717.8314	-62.22	-25.00	37.22	Vertical
1684.8286	-44.47	-25.00	19.47	Vertical
7449.8636	-56.75	-25.00	31.75	Vertical
14482.5270	-47.67	-25.00	22.67	Vertical
17999.4746	-39.61	-25.00	14.61	Vertical
45.0825	-63.77	-25.00	38.77	Horizontal
596.7474	-63.90	-25.00	38.90	Horizontal
1601.0537	-44.64	-25.00	19.64	Horizontal
7356.3176	-56.80	-25.00	31.80	Horizontal
16399.2067	-43.45	-25.00	18.45	Horizontal
18000.7543	-45.87	-25.00	20.87	Horizontal



7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.3473	-65.21	-25.00	40.21	Vertical
671.9346	-63.70	-25.00	38.70	Vertical
1705.2508	-44.46	-25.00	19.46	Vertical
7361.9058	-55.80	-25.00	30.80	Vertical
14567.1689	-46.86	-25.00	21.86	Vertical
18000.3225	-40.28	-25.00	15.28	Vertical
43.9798	-63.79	-25.00	38.79	Horizontal
559.5096	-64.60	-25.00	39.60	Horizontal
1592.2431	-43.91	-25.00	18.91	Horizontal
7453.0896	-56.04	-25.00	31.04	Horizontal
16383.6161	-44.27	-25.00	19.27	Horizontal
17998.8359	-45.16	-25.00	20.16	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz and above 12.75GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.





8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	RB Config	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	TN	LV	1.67	0.000664	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	TN	NV	-0.46	-0.000182	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	TN	HV	-9.69	-0.003859	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	TN	LV	9.33	0.003697	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	TN	NV	-4.25	-0.001683	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	TN	HV	-1.75	-0.000695	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	TN	LV	5.30	0.002087	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	TN	NV	-1.16	-0.000456	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	TN	HV	1.04	0.000409	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	TN	LV	-8.65	-0.003445	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	TN	NV	-3.30	-0.001313	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	TN	HV	4.61	0.001835	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	TN	LV	3.57	0.001412	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	TN	NV	-8.67	-0.003435	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	TN	HV	5.46	0.002163	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	TN	LV	2.82	0.001111	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	TN	NV	0.54	0.000211	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	TN	HV	-12.10	-0.004764	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	TN	LV	-2.85	-0.001137	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	TN	NV	-0.24	-0.000094	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	TN	HV	12.61	0.005026	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	TN	LV	5.22	0.002067	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	TN	NV	3.25	0.001289	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	TN	HV	-1.43	-0.000568	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	TN	LV	-0.99	-0.000388	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	TN	NV	-0.35	-0.000138	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	TN	HV	-3.96	-0.001560	PASS

8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	RB Config	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	-30	-0.09	-0.000036	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	-20	0.96	0.000383	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	-10	-1.32	-0.000525	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	0	-5.87	-0.002337	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	10	-7.50	-0.002987	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	20	3.73	0.001488	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	30	5.12	0.002038	PASS



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CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	40	3.43	0.001368	PASS
CA_7C	QPSK	20850+21048	100RB#0/100RB#0	NV	50	0.10	0.000039	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	-30	-4.27	-0.001693	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	-20	-7.84	-0.003103	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	-10	-5.34	-0.002115	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	0	0.04	0.000014	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	10	7.61	0.003016	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	20	-5.06	-0.002005	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	30	9.00	0.003565	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	40	11.76	0.004656	PASS
CA_7C	QPSK	21001+21199	100RB#0/100RB#0	NV	50	-2.88	-0.001143	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	-30	-6.18	-0.002433	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	-20	-2.02	-0.000796	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	-10	6.89	0.002712	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	0	-9.58	-0.003771	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	10	0.58	0.000229	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	20	3.08	0.001212	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	30	6.89	0.002711	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	40	3.95	0.001557	PASS
CA_7C	QPSK	21152+21350	100RB#0/100RB#0	NV	50	-3.84	-0.001510	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	-30	-10.61	-0.004227	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	-20	-7.70	-0.003066	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	-10	5.78	0.002301	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	0	-1.06	-0.000423	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	10	-6.17	-0.002459	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	20	-1.16	-0.000462	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	30	-9.28	-0.003696	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	40	-3.29	-0.001309	PASS
CA_7C	16QAM	20850+21048	100RB#0/100RB#0	NV	50	-5.78	-0.002303	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	-30	1.44	0.000568	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	-20	-3.56	-0.001408	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	-10	3.67	0.001452	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	0	-1.76	-0.000698	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	10	-0.60	-0.000238	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	20	0.86	0.000342	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	30	-1.91	-0.000755	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	40	-9.09	-0.003599	PASS
CA_7C	16QAM	21001+21199	100RB#0/100RB#0	NV	50	5.84	0.002314	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	-30	-9.66	-0.003802	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	-20	5.89	0.002319	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	-10	-4.53	-0.001784	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	0	6.19	0.002435	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	10	-5.62	-0.002214	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	20	1.21	0.000475	PASS



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CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	30	-8.36	-0.003292	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	40	3.59	0.001412	PASS
CA_7C	16QAM	21152+21350	100RB#0/100RB#0	NV	50	8.64	0.003400	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	-30	1.59	0.000635	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	-20	-4.57	-0.001822	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	-10	3.12	0.001243	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	0	-4.24	-0.001690	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	10	3.80	0.001515	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	20	6.58	0.002621	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	30	8.84	0.003522	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	40	-6.56	-0.002614	PASS
CA_7C	64QAM	20850+21048	100RB#0/100RB#0	NV	50	-1.22	-0.000484	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	-30	1.12	0.000445	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	-20	-2.51	-0.000993	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	-10	1.46	0.000579	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	0	2.11	0.000837	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	10	-3.07	-0.001215	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	20	-0.76	-0.000301	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	30	-8.61	-0.003409	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	40	-2.35	-0.000932	PASS
CA_7C	64QAM	21001+21199	100RB#0/100RB#0	NV	50	-11.35	-0.004495	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	-30	-3.39	-0.001334	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	-20	-2.52	-0.000993	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	-10	-1.08	-0.000427	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	0	0.23	0.000089	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	10	2.52	0.000991	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	20	5.30	0.002088	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	30	12.33	0.004854	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	40	-5.43	-0.002136	PASS
CA_7C	64QAM	21152+21350	100RB#0/100RB#0	NV	50	2.98	0.001174	PASS

The End



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