



Appendix B

Test Data for SZEM170100023101



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1 Effective (Isotropic) Radiated Power Output Data

Effective Radiated Power of Transmitter (ERP) for LTE BAND 26(824-849)

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	1.4M	LCH	RB1#0	21.16	22.76	38.45	PASS
				RB1#2	21.14	22.74	38.45	PASS
				RB1#5	21.09	22.69	38.45	PASS
				RB3#0	21.12	22.72	38.45	PASS
				RB3#2	21.15	22.75	38.45	PASS
				RB3#3	21.09	22.69	38.45	PASS
				RB6#0	21.06	22.66	38.45	PASS
			MCH	RB1#0	21.13	22.73	38.45	PASS
				RB1#2	21.10	22.70	38.45	PASS
				RB1#5	21.05	22.65	38.45	PASS
				RB3#0	21.10	22.70	38.45	PASS
				RB3#2	21.16	22.76	38.45	PASS
				RB3#3	21.17	22.77	38.45	PASS
				RB6#0	21.05	22.65	38.45	PASS
			HCH	RB1#0	21.04	22.64	38.45	PASS
				RB1#2	21.12	22.72	38.45	PASS
				RB1#5	21.06	22.66	38.45	PASS
				RB3#0	21.12	22.72	38.45	PASS
				RB3#2	21.14	22.74	38.45	PASS
				RB3#3	21.11	22.71	38.45	PASS
				RB6#0	21.07	22.67	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	1.4M	LCH	RB1#0	21.31	22.91	38.45	PASS
				RB1#2	21.27	22.87	38.45	PASS
				RB1#5	21.24	22.84	38.45	PASS
				RB3#0	21.14	22.74	38.45	PASS
				RB3#2	21.18	22.78	38.45	PASS
				RB3#3	21.11	22.71	38.45	PASS
				RB6#0	20.14	21.74	38.45	PASS
			MCH	RB1#0	21.33	22.93	38.45	PASS
				RB1#2	21.34	22.94	38.45	PASS
				RB1#5	21.24	22.84	38.45	PASS
				RB3#0	21.14	22.74	38.45	PASS
				RB3#2	21.19	22.79	38.45	PASS
				RB3#3	21.15	22.75	38.45	PASS
				RB6#0	20.08	21.68	38.45	PASS
			HCH	RB1#0	21.29	22.89	38.45	PASS
				RB1#2	21.37	22.97	38.45	PASS
				RB1#5	21.27	22.87	38.45	PASS
				RB3#0	21.12	22.72	38.45	PASS
				RB3#2	21.21	22.81	38.45	PASS
				RB3#3	21.11	22.71	38.45	PASS
				RB6#0	20.18	21.78	38.45	PASS

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BAND26 (824-849)	LTE/TM3	1.4M	LCH	RB1#0	20.35	21.95	38.45	PASS
				RB1#2	20.42	22.02	38.45	PASS
				RB1#5	20.33	21.93	38.45	PASS
				RB3#0	20.15	21.75	38.45	PASS
				RB3#2	20.11	21.71	38.45	PASS
				RB3#3	20.20	21.80	38.45	PASS
				RB6#0	19.29	20.89	38.45	PASS
			MCH	RB1#0	20.55	22.15	38.45	PASS
				RB1#2	20.47	22.07	38.45	PASS
				RB1#5	20.53	22.13	38.45	PASS
				RB3#0	20.27	21.87	38.45	PASS
				RB3#2	20.30	21.90	38.45	PASS
				RB3#3	20.23	21.83	38.45	PASS
				RB6#0	19.22	20.82	38.45	PASS
			HCH	RB1#0	20.65	22.25	38.45	PASS
				RB1#2	20.72	22.32	38.45	PASS
				RB1#5	20.63	22.23	38.45	PASS
				RB3#0	20.25	21.85	38.45	PASS
				RB3#2	20.31	21.91	38.45	PASS
				RB3#3	20.25	21.85	38.45	PASS
				RB6#0	19.19	20.79	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	3M	LCH	RB1#0	21.12	22.72	38.45	PASS
				RB1#7	21.17	22.77	38.45	PASS
				RB1#14	21.10	22.70	38.45	PASS
				RB8#0	21.13	22.73	38.45	PASS
				RB8#4	21.12	22.72	38.45	PASS
				RB8#7	21.04	22.64	38.45	PASS
				RB15#0	21.03	22.63	38.45	PASS
			MCH	RB1#0	21.20	22.80	38.45	PASS
				RB1#7	21.23	22.83	38.45	PASS
				RB1#14	21.11	22.71	38.45	PASS
				RB8#0	21.14	22.74	38.45	PASS
				RB8#4	21.12	22.72	38.45	PASS
				RB8#7	21.14	22.74	38.45	PASS
				RB15#0	21.15	22.75	38.45	PASS
			HCH	RB1#0	21.17	22.77	38.45	PASS
				RB1#7	21.27	22.87	38.45	PASS
				RB1#14	21.13	22.73	38.45	PASS
				RB8#0	21.19	22.79	38.45	PASS
				RB8#4	21.22	22.82	38.45	PASS
				RB8#7	21.18	22.78	38.45	PASS
				RB15#0	21.18	22.78	38.45	PASS

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BAND26 (824-849)	LTE/TM2	3M	LCH	RB1#0	21.47	23.07	38.45	PASS
				RB1#7	21.51	23.11	38.45	PASS
				RB1#14	21.35	22.95	38.45	PASS
				RB8#0	20.22	21.82	38.45	PASS
				RB8#4	20.14	21.74	38.45	PASS
				RB8#7	20.13	21.73	38.45	PASS
				RB15#0	20.10	21.70	38.45	PASS
			MCH	RB1#0	21.48	23.08	38.45	PASS
				RB1#7	21.54	23.14	38.45	PASS
				RB1#14	21.37	22.97	38.45	PASS
				RB8#0	20.27	21.87	38.45	PASS
				RB8#4	20.29	21.89	38.45	PASS
				RB8#7	20.20	21.80	38.45	PASS
				RB15#0	20.23	21.83	38.45	PASS
			HCH	RB1#0	21.44	23.04	38.45	PASS
				RB1#7	21.53	23.13	38.45	PASS
				RB1#14	21.38	22.98	38.45	PASS
				RB8#0	20.25	21.85	38.45	PASS
				RB8#4	20.26	21.86	38.45	PASS
				RB8#7	20.23	21.83	38.45	PASS
				RB15#0	20.21	21.81	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM3	3M	LCH	RB1#0	20.41	22.01	38.45	PASS
				RB1#7	20.34	21.94	38.45	PASS
				RB1#14	20.38	21.98	38.45	PASS
				RB8#0	19.20	20.80	38.45	PASS
				RB8#4	19.17	20.77	38.45	PASS
				RB8#7	19.14	20.74	38.45	PASS
				RB15#0	19.09	20.69	38.45	PASS
			MCH	RB1#0	20.51	22.11	38.45	PASS
				RB1#7	20.49	22.09	38.45	PASS
				RB1#14	20.44	22.04	38.45	PASS
				RB8#0	19.22	20.82	38.45	PASS
				RB8#4	19.25	20.85	38.45	PASS
				RB8#7	19.12	20.72	38.45	PASS
				RB15#0	19.13	20.73	38.45	PASS
			HCH	RB1#0	20.71	22.31	38.45	PASS
				RB1#7	20.79	22.39	38.45	PASS
				RB1#14	20.68	22.28	38.45	PASS
				RB8#0	19.29	20.89	38.45	PASS
				RB8#4	19.32	20.92	38.45	PASS
				RB8#7	19.25	20.85	38.45	PASS
				RB15#0	19.23	20.83	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	5M	LCH	RB1#0	21.08	22.68	38.45	PASS
				RB1#13	21.07	22.67	38.45	PASS
				RB1#24	21.00	22.60	38.45	PASS
				RB12#0	21.05	22.65	38.45	PASS
				RB12#6	21.09	22.69	38.45	PASS
				RB12#13	21.04	22.64	38.45	PASS
				RB25#0	21.02	22.62	38.45	PASS
			MCH	RB1#0	21.14	22.74	38.45	PASS
				RB1#13	21.10	22.70	38.45	PASS
				RB1#24	21.04	22.64	38.45	PASS
				RB12#0	21.12	22.72	38.45	PASS
				RB12#6	21.11	22.71	38.45	PASS
				RB12#13	21.07	22.67	38.45	PASS
				RB25#0	21.04	22.64	38.45	PASS
			HCH	RB1#0	21.11	22.71	38.45	PASS
				RB1#13	21.12	22.72	38.45	PASS
				RB1#24	21.03	22.63	38.45	PASS
				RB12#0	21.15	22.75	38.45	PASS
				RB12#6	21.16	22.76	38.45	PASS
				RB12#13	21.09	22.69	38.45	PASS
				RB25#0	21.15	22.75	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	5M	LCH	RB1#0	21.36	22.96	38.45	PASS
				RB1#13	21.34	22.94	38.45	PASS
				RB1#24	21.25	22.85	38.45	PASS
				RB12#0	20.13	21.73	38.45	PASS
				RB12#6	20.13	21.73	38.45	PASS
				RB12#13	20.12	21.72	38.45	PASS
				RB25#0	20.10	21.70	38.45	PASS
			MCH	RB1#0	21.42	23.02	38.45	PASS
				RB1#13	21.35	22.95	38.45	PASS
				RB1#24	21.29	22.89	38.45	PASS
				RB12#0	20.15	21.75	38.45	PASS
				RB12#6	20.16	21.76	38.45	PASS
				RB12#13	20.13	21.73	38.45	PASS
				RB25#0	20.12	21.72	38.45	PASS
			HCH	RB1#0	21.4	23.00	38.45	PASS
				RB1#13	21.38	22.98	38.45	PASS
				RB1#24	21.28	22.88	38.45	PASS
				RB12#0	20.15	21.75	38.45	PASS
				RB12#6	20.17	21.77	38.45	PASS
				RB12#13	20.12	21.72	38.45	PASS
				RB25#0	20.14	21.74	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM3	5M	LCH	RB1#0	20.35	21.95	38.45	PASS
				RB1#13	20.41	22.01	38.45	PASS
				RB1#24	20.32	21.92	38.45	PASS
				RB12#0	19.10	20.70	38.45	PASS
				RB12#6	19.13	20.73	38.45	PASS
				RB12#13	19.12	20.72	38.45	PASS
				RB25#0	19.07	20.67	38.45	PASS
			MCH	RB1#0	20.47	22.07	38.45	PASS
				RB1#13	20.35	21.95	38.45	PASS
				RB1#24	20.32	21.92	38.45	PASS
				RB12#0	19.14	20.74	38.45	PASS
				RB12#6	19.12	20.72	38.45	PASS
				RB12#13	19.09	20.69	38.45	PASS
				RB25#0	19.11	20.71	38.45	PASS
			HCH	RB1#0	20.8	22.40	38.45	PASS
				RB1#13	20.91	22.51	38.45	PASS
				RB1#24	20.82	22.42	38.45	PASS
				RB12#0	19.39	20.99	38.45	PASS
				RB12#6	19.38	20.98	38.45	PASS
				RB12#13	19.34	20.94	38.45	PASS
				RB25#0	19.24	20.84	38.45	PASS

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BAND26 (824-849)	LTE/TM1	10M	LCH	RB1#0	21.23	22.83	38.45	PASS
				RB1#25	20.96	22.56	38.45	PASS
				RB1#49	20.94	22.54	38.45	PASS
				RB25#0	21.04	22.64	38.45	PASS
				RB25#13	21.02	22.62	38.45	PASS
				RB25#25	20.99	22.59	38.45	PASS
				RB50#0	21.02	22.62	38.45	PASS
			MCH	RB1#0	21.06	22.66	38.45	PASS
				RB1#25	20.98	22.58	38.45	PASS
				RB1#49	20.95	22.55	38.45	PASS
				RB25#0	21.02	22.62	38.45	PASS
				RB25#13	20.99	22.59	38.45	PASS
				RB25#25	20.96	22.56	38.45	PASS
				RB50#0	20.97	22.57	38.45	PASS
			HCH	RB1#0	21.03	22.63	38.45	PASS
				RB1#25	20.96	22.56	38.45	PASS
				RB1#49	20.9	22.50	38.45	PASS
				RB25#0	21.01	22.61	38.45	PASS
				RB25#13	20.99	22.59	38.45	PASS
				RB25#25	20.94	22.54	38.45	PASS
				RB50#0	20.98	22.58	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	10M	LCH	RB1#0	21.32	22.92	38.45	PASS
				RB1#25	21.19	22.79	38.45	PASS
				RB1#49	21.13	22.73	38.45	PASS
				RB25#0	20.03	21.63	38.45	PASS
				RB25#13	20.04	21.64	38.45	PASS
				RB25#25	20.02	21.62	38.45	PASS
				RB50#0	20.00	21.60	38.45	PASS
			MCH	RB1#0	21.32	22.92	38.45	PASS
				RB1#25	21.27	22.87	38.45	PASS
				RB1#49	21.14	22.74	38.45	PASS
				RB25#0	20.08	21.68	38.45	PASS
				RB25#13	20.06	21.66	38.45	PASS
				RB25#25	20.03	21.63	38.45	PASS
				RB50#0	20.06	21.66	38.45	PASS
			HCH	RB1#0	21.29	22.89	38.45	PASS
				RB1#25	21.17	22.77	38.45	PASS
				RB1#49	21.10	22.70	38.45	PASS
				RB25#0	20.01	21.61	38.45	PASS
				RB25#13	20.00	21.60	38.45	PASS
				RB25#25	20.03	21.63	38.45	PASS
				RB50#0	20.00	21.60	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM3	10M	LCH	RB1#0	20.72	22.32	38.45	PASS
				RB1#25	20.66	22.26	38.45	PASS
				RB1#49	20.63	22.23	38.45	PASS
				RB25#0	19.20	20.80	38.45	PASS
				RB25#13	19.18	20.78	38.45	PASS
				RB25#25	19.11	20.71	38.45	PASS
				RB50#0	19.15	20.75	38.45	PASS
			MCH	RB1#0	20.40	22.00	38.45	PASS
				RB1#25	20.37	21.97	38.45	PASS
				RB1#49	20.21	21.81	38.45	PASS
				RB25#0	19.18	20.78	38.45	PASS
				RB25#13	19.15	20.75	38.45	PASS
				RB25#25	19.12	20.72	38.45	PASS
				RB50#0	19.15	20.75	38.45	PASS
			HCH	RB1#0	19.96	21.56	38.45	PASS
				RB1#25	19.92	21.52	38.45	PASS
				RB1#49	19.89	21.49	38.45	PASS
				RB25#0	19.26	20.86	38.45	PASS
				RB25#13	19.23	20.83	38.45	PASS
				RB25#25	19.21	20.81	38.45	PASS
				RB50#0	19.17	20.77	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM1	15M	LCH	RB1#0	21.14	22.74	38.45	PASS
				RB1#38	21.14	22.74	38.45	PASS
				RB1#74	20.99	22.59	38.45	PASS
				RB36#0	21.10	22.70	38.45	PASS
				RB36#18	21.06	22.66	38.45	PASS
				RB36#39	21.03	22.63	38.45	PASS
				RB75#0	21.07	22.67	38.45	PASS
			MCH	RB1#0	21.31	22.91	38.45	PASS
				RB1#38	21.15	22.75	38.45	PASS
				RB1#74	21.06	22.66	38.45	PASS
				RB36#0	21.24	22.84	38.45	PASS
				RB36#18	21.27	22.87	38.45	PASS
				RB36#39	21.15	22.75	38.45	PASS
				RB75#0	21.12	22.72	38.45	PASS
			HCH	RB1#0	21.27	22.87	38.45	PASS
				RB1#38	21.11	22.71	38.45	PASS
				RB1#74	20.92	22.52	38.45	PASS
				RB36#0	21.21	22.81	38.45	PASS
				RB36#18	21.2	22.80	38.45	PASS
				RB36#39	21.13	22.73	38.45	PASS
				RB75#0	21.16	22.76	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM2	15M	LCH	RB1#0	21.33	22.93	38.45	PASS
				RB1#38	21.32	22.92	38.45	PASS
				RB1#74	21.34	22.94	38.45	PASS
				RB36#0	20.17	21.77	38.45	PASS
				RB36#18	20.15	21.75	38.45	PASS
				RB36#39	20.03	21.63	38.45	PASS
				RB75#0	20.08	21.68	38.45	PASS
			MCH	RB1#0	21.32	22.92	38.45	PASS
				RB1#38	21.36	22.96	38.45	PASS
				RB1#74	21.30	22.90	38.45	PASS
				RB36#0	20.29	21.89	38.45	PASS
				RB36#18	20.24	21.84	38.45	PASS
				RB36#39	20.15	21.75	38.45	PASS
				RB75#0	20.21	21.81	38.45	PASS
			HCH	RB1#0	21.34	22.94	38.45	PASS
				RB1#38	21.35	22.95	38.45	PASS
				RB1#74	21.28	22.88	38.45	PASS
				RB36#0	20.24	21.84	38.45	PASS
				RB36#18	20.23	21.83	38.45	PASS
				RB36#39	20.08	21.68	38.45	PASS
				RB75#0	20.01	21.61	38.45	PASS

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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	ERP (dBm)	limit (dBm)	Verdict
BAND26 (824-849)	LTE/TM3	15M	LCH	RB1#0	20.02	21.62	38.45	PASS
				RB1#38	20.01	21.61	38.45	PASS
				RB1#74	19.98	21.58	38.45	PASS
				RB36#0	19.33	20.93	38.45	PASS
				RB36#18	19.24	20.84	38.45	PASS
				RB36#39	19.18	20.78	38.45	PASS
				RB75#0	19.17	20.77	38.45	PASS
			MCH	RB1#0	20.47	22.07	38.45	PASS
				RB1#38	20.44	22.04	38.45	PASS
				RB1#74	20.42	22.02	38.45	PASS
				RB36#0	19.25	20.85	38.45	PASS
				RB36#18	19.23	20.83	38.45	PASS
				RB36#39	19.18	20.78	38.45	PASS
				RB75#0	19.19	20.79	38.45	PASS
			HCH	RB1#0	20.87	22.47	38.45	PASS
				RB1#38	20.75	22.35	38.45	PASS
				RB1#74	20.56	22.16	38.45	PASS
				RB36#0	19.32	20.92	38.45	PASS
				RB36#18	19.30	20.90	38.45	PASS
				RB36#39	19.20	20.80	38.45	PASS
				RB75#0	19.25	20.85	38.45	PASS

Note:

a: For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b: SGP=Signal Generator Level

c: RBW > emission bandwidth, VBW > 3 x RBW.

Detector: RMS

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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 26(824-849)	TM1/15M	LCH	5.33	13	PASS
		MCH	5.13	13	PASS
		HCH	5.10	13	PASS
	TM2/15M	LCH	6.14	13	PASS
		MCH	6.00	13	PASS
		HCH	5.91	13	PASS
	TM3/15M	LCH	6.75	13	PASS
		MCH	6.58	13	PASS
		HCH	6.46	13	PASS



Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band 26(824-849)

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=15MHz

2.1.1.1.1 Test Channel = LCH

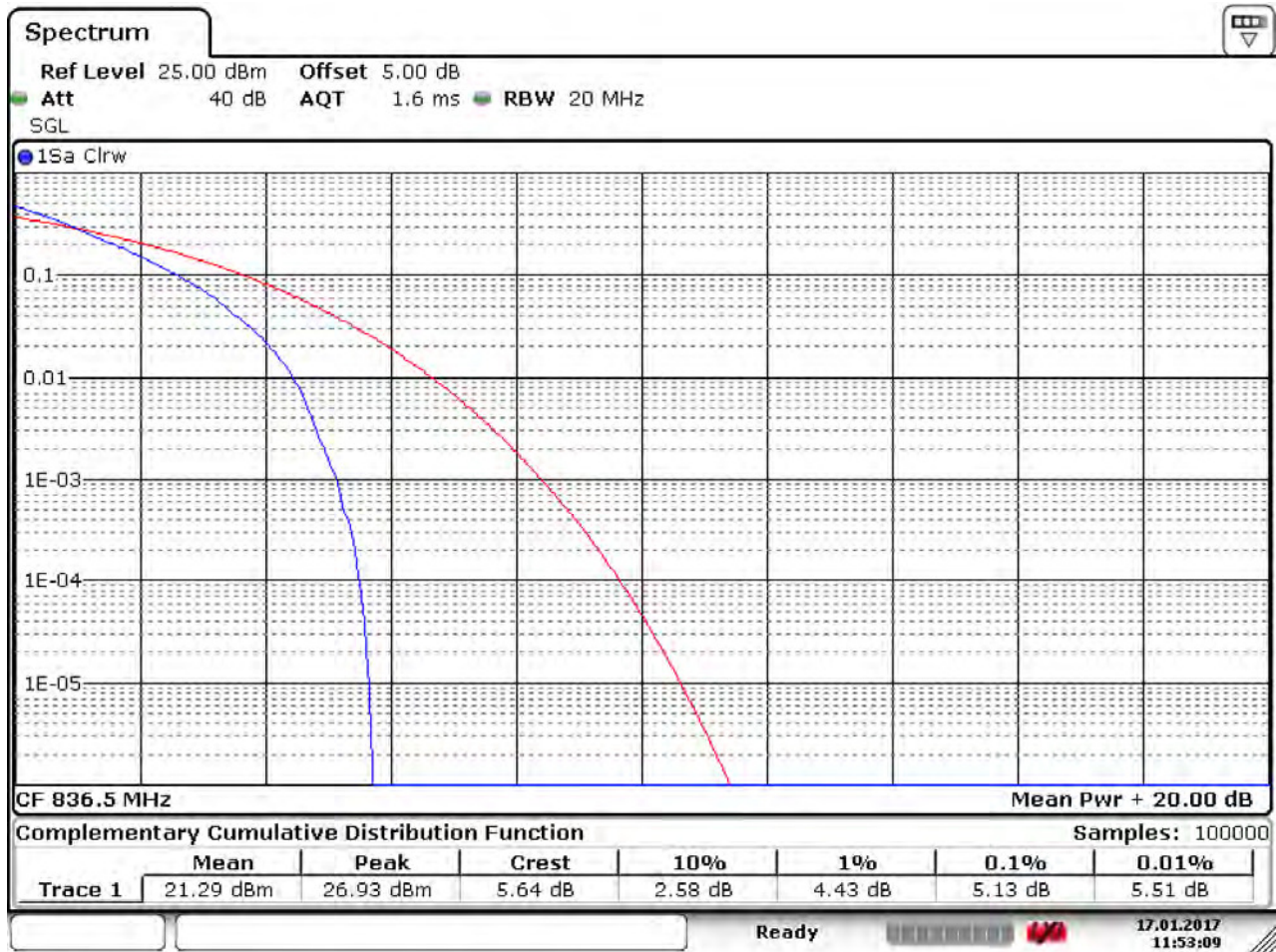


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2.1.1.1.2 Test Channel = MCH

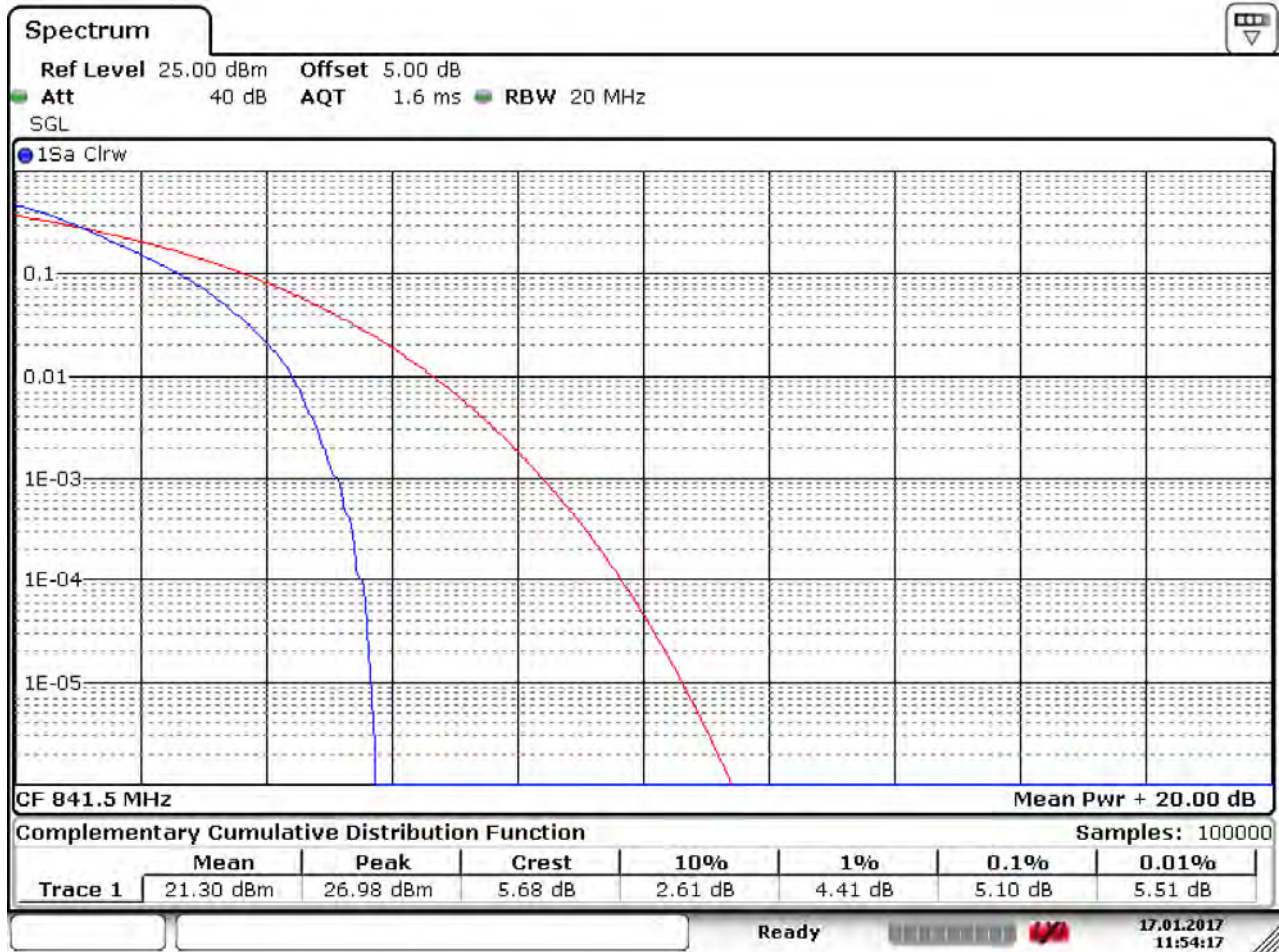


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2.1.1.1.3 Test Channel =HCH



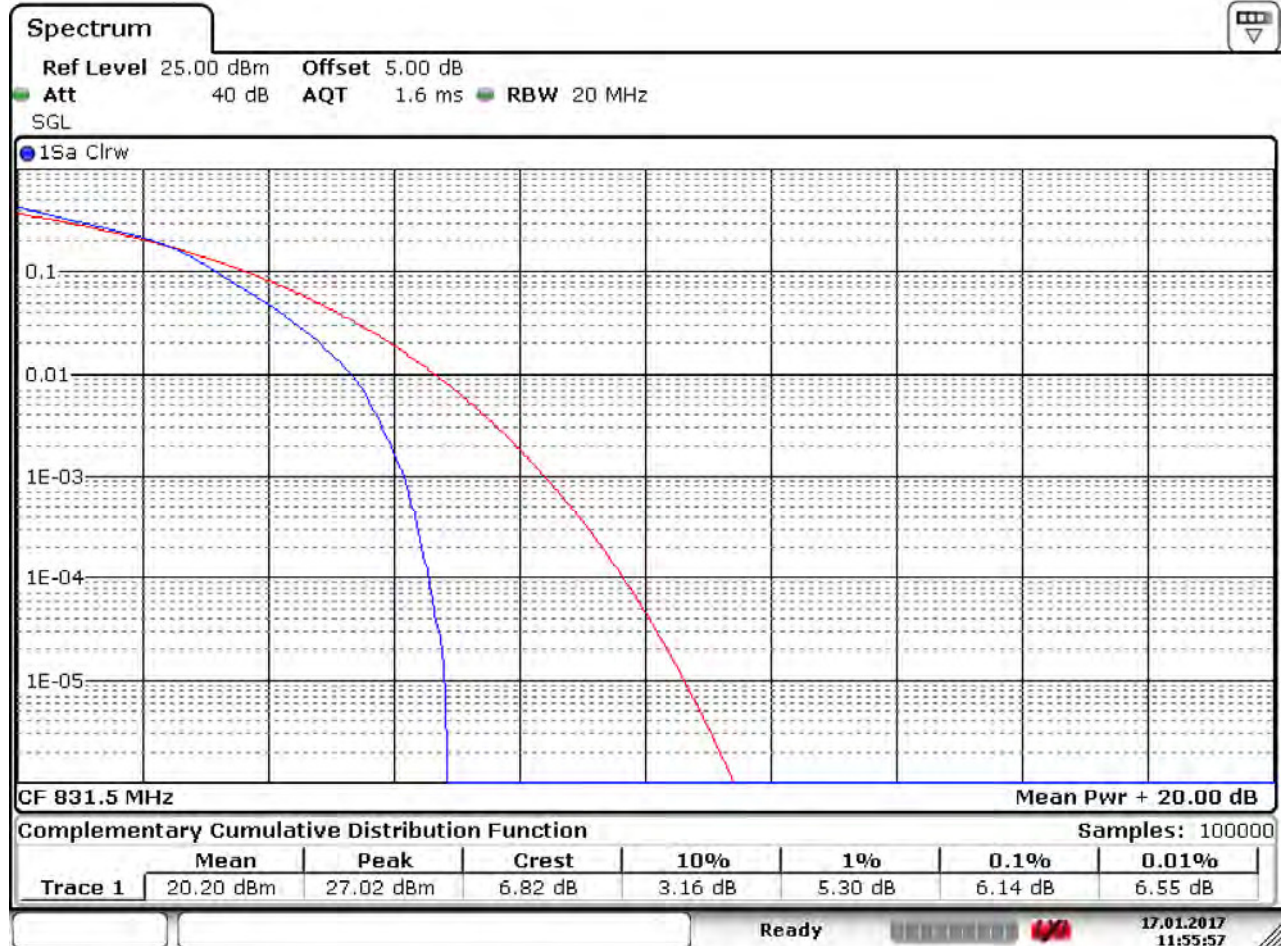
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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=15MHz

2.1.1.2.1 Test Channel = LCH

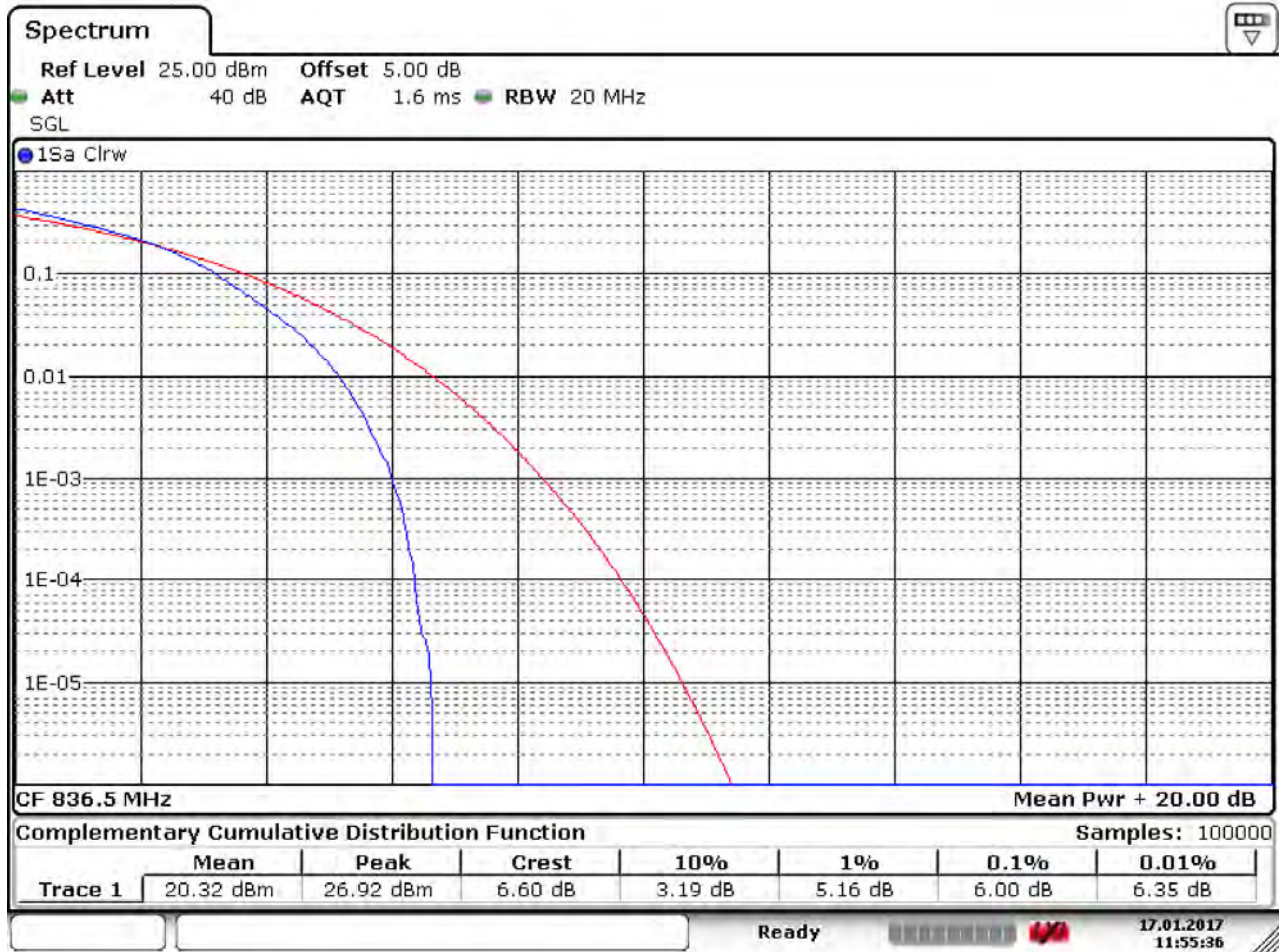


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2.1.1.2.2 Test Channel = MCH

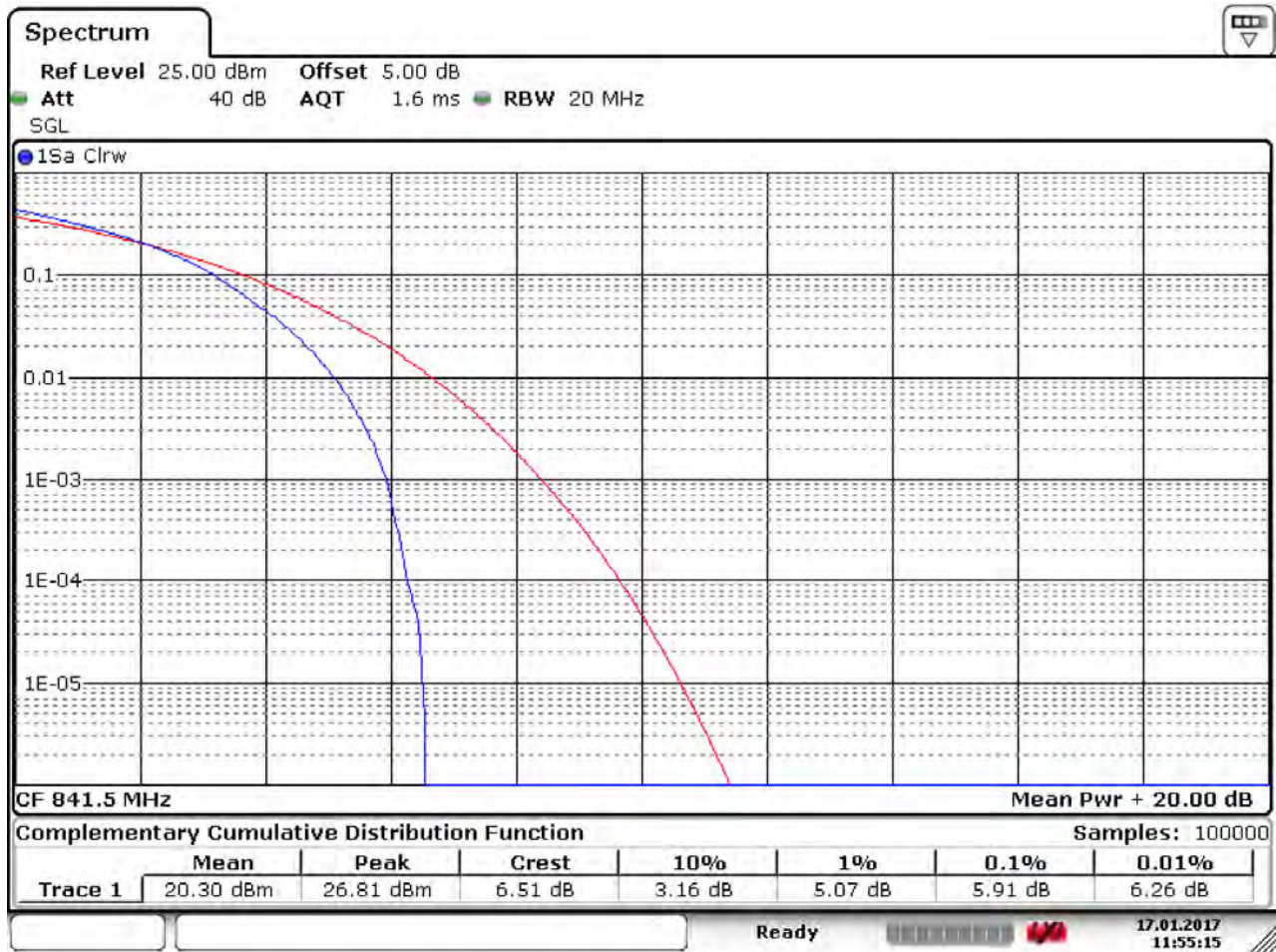


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2.1.1.2.3 Test Channel = HCH



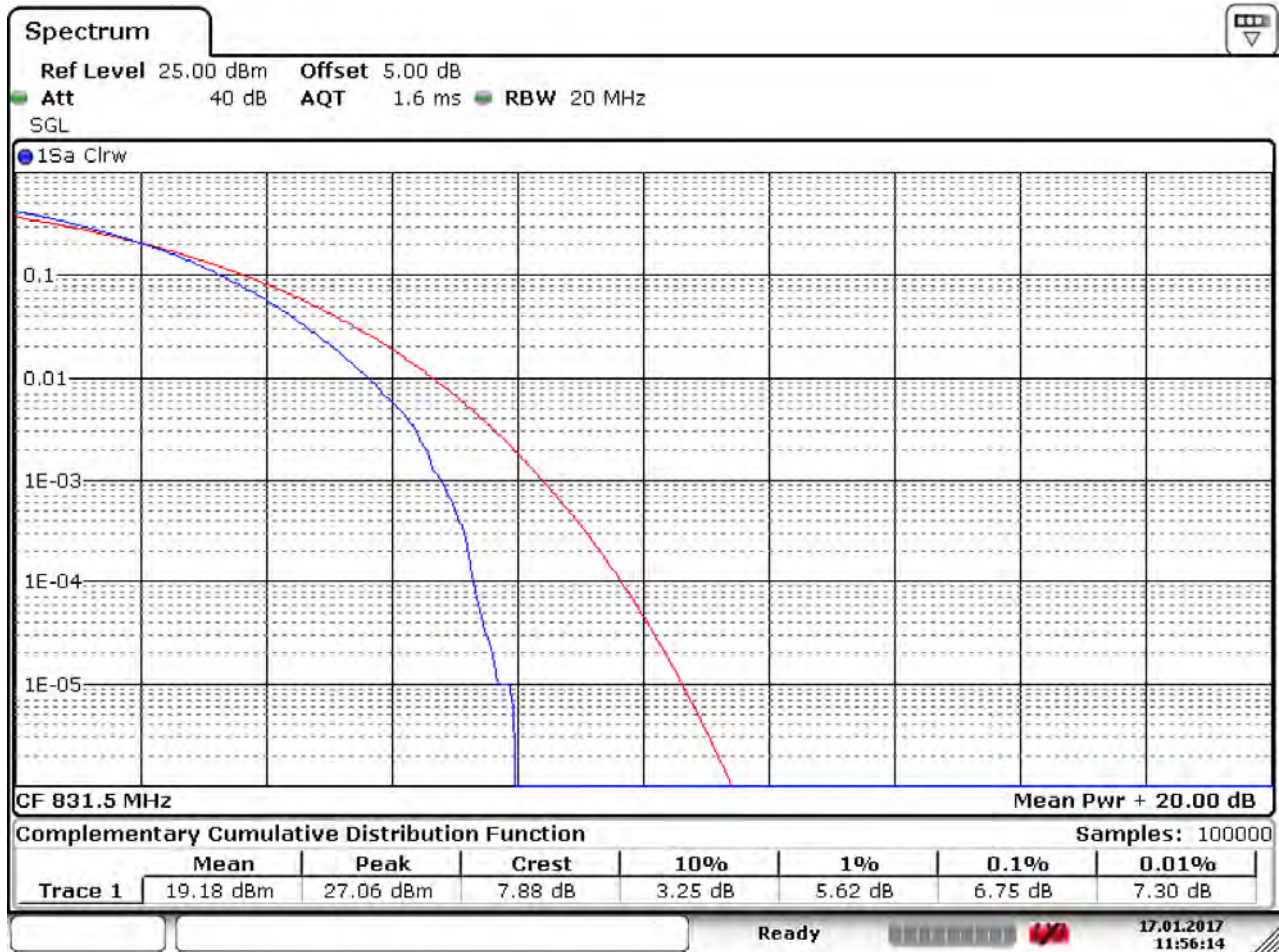
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2.1.1.3 Test Mode = LTE/TM3.Bandwidth=10MHz

2.1.1.3.1 Test Channel = LCH

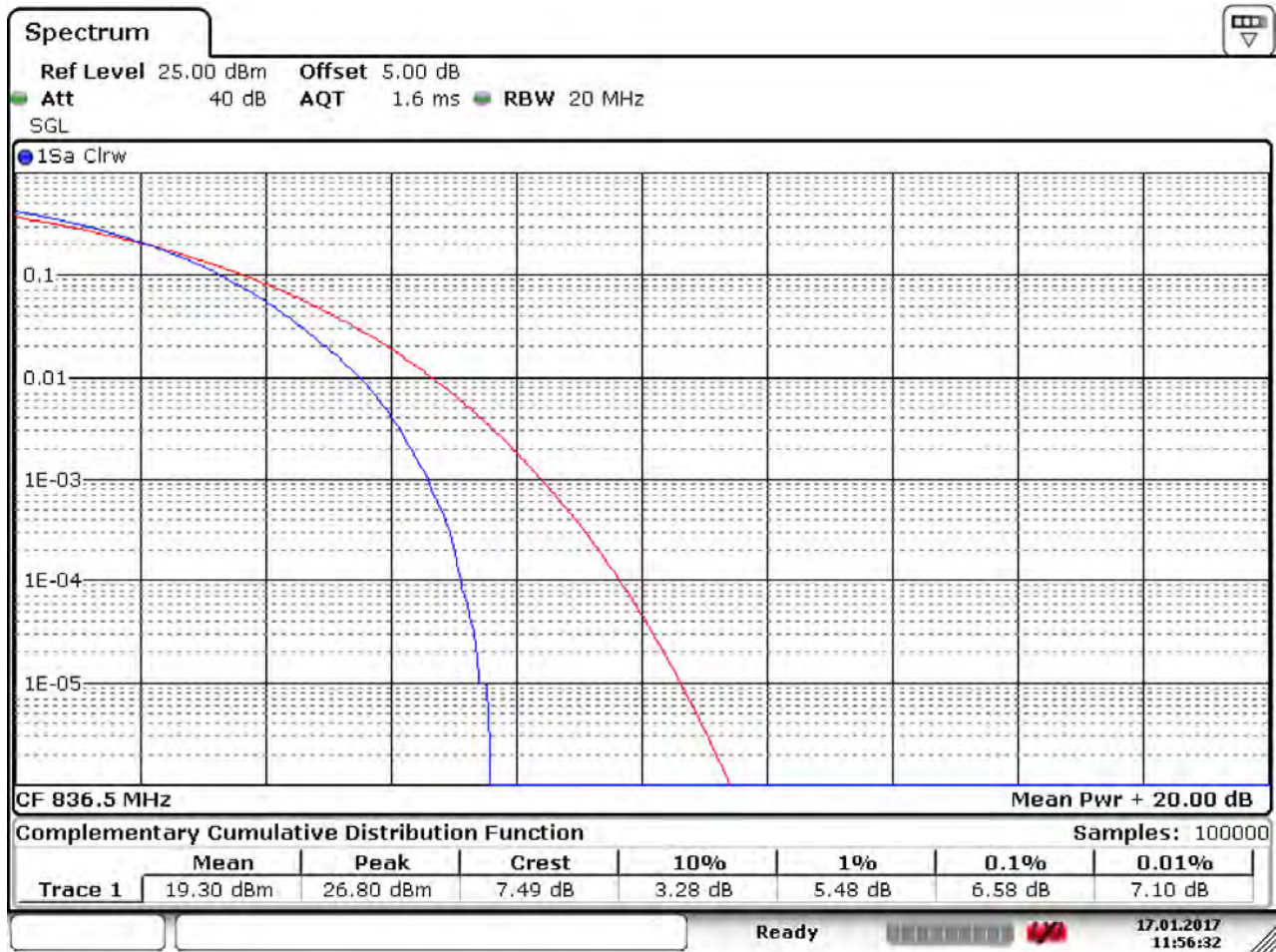


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2.1.1.3.2 Test Channel = MCH

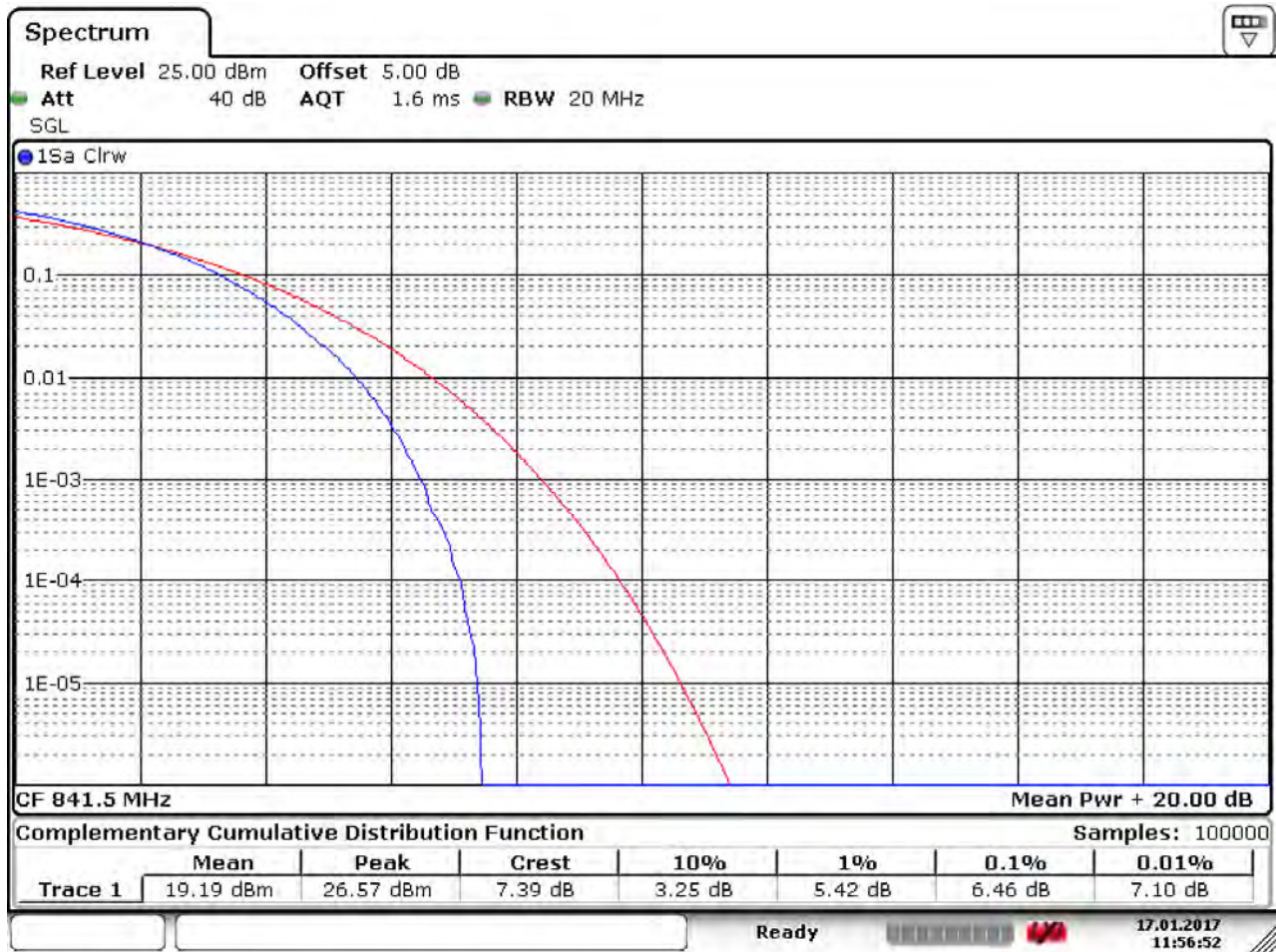


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2.1.1.3.3 Test Channel = HCH



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3 Modulation Characteristics

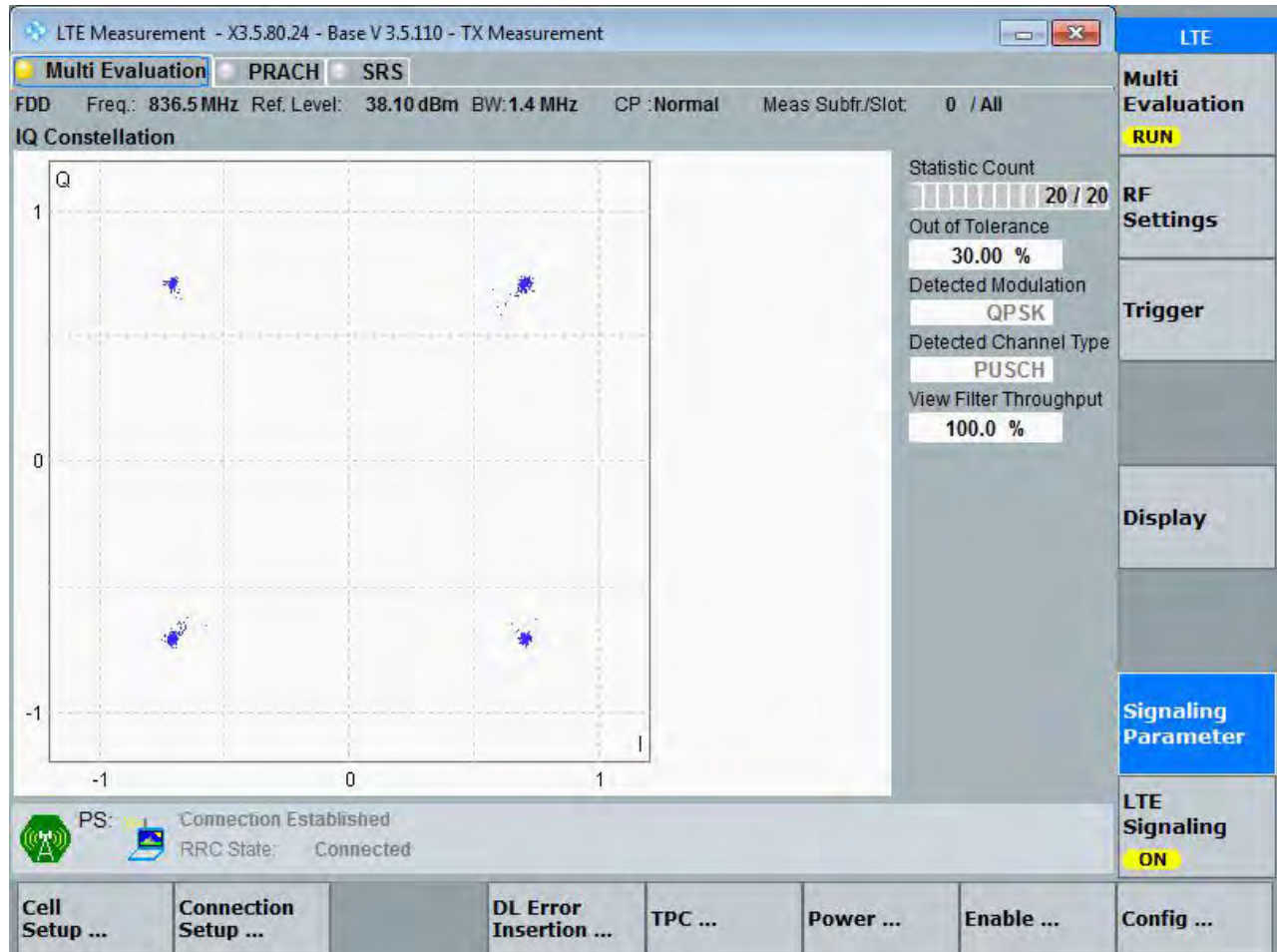
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band 26(824-849)

3.1.1.1 Test Mode = LTE /TM1 1.4MHz

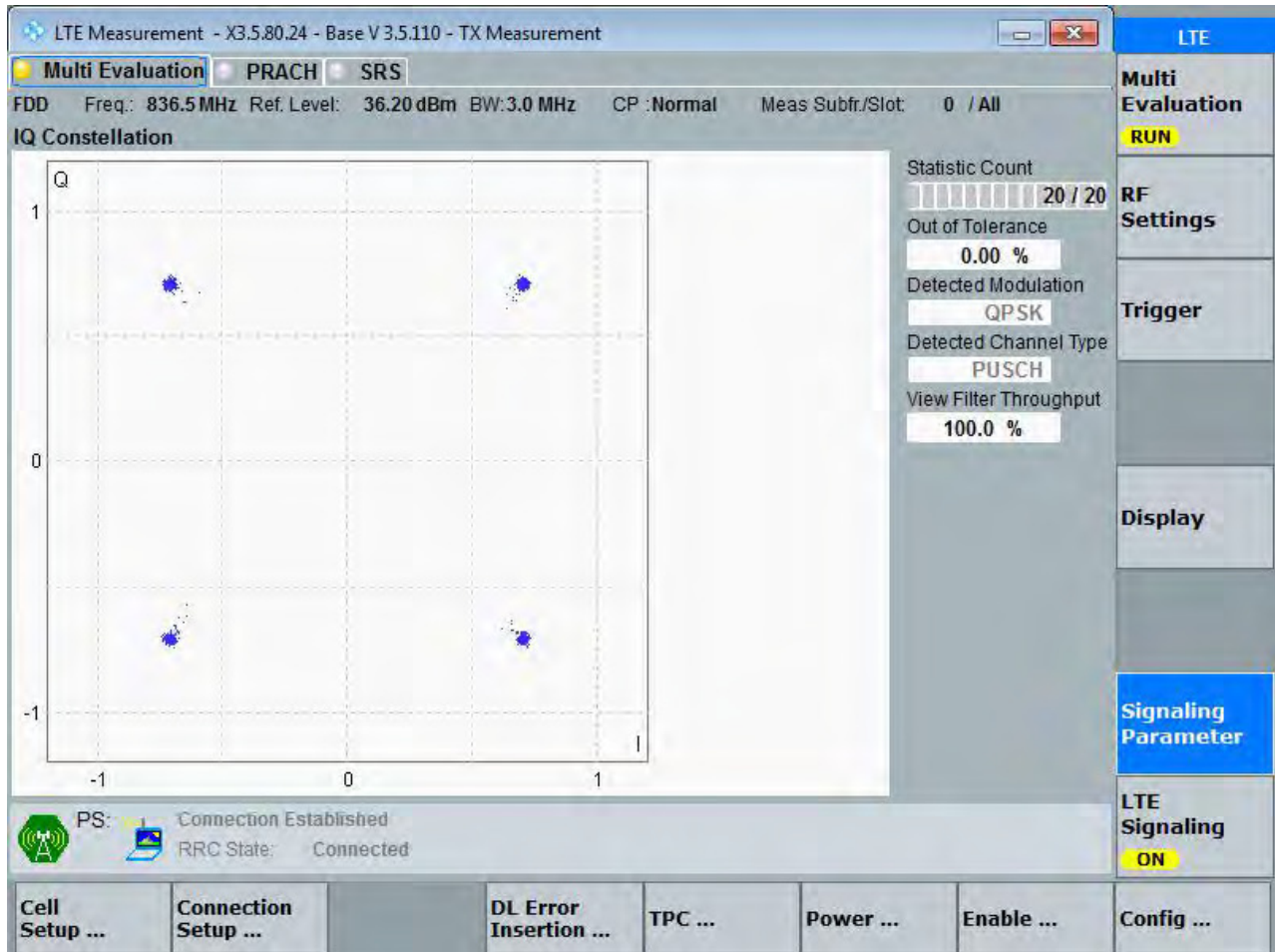
3.1.1.1.1 Test Channel = MCH





3.1.1.2 Test Mode = LTE /TM1 3MHz

3.1.1.2.1 Test Channel = MCH



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3.1.1.3 Test Mode = LTE /TM1 5MHz

3.1.1.3.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" sub-tab. The interface shows the following parameters: FDD, Freq: 836.5 MHz, Ref. Level: 38.10 dBm, BW: 5.0 MHz, CP: Normal, Meas Subfr./Slot: 0 / All. The "IQ Constellation" plot shows a QPSK modulation scheme with four clusters of points in a square arrangement. The plot axes are labeled "Q" (vertical) and "I" (horizontal), ranging from -1 to 1. To the right of the plot, the "Statistic Count" is 20 / 20, "Out of Tolerance" is 70.00 %, "Detected Modulation" is QPSK, "Detected Channel Type" is PUSCH, and "View Filter Throughput" is 100.0 %. The interface includes a sidebar with buttons for "Multi Evaluation", "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling". The "LTE Signaling" button is highlighted in yellow and labeled "ON". At the bottom, there is a status bar showing "PS: Connection Established" and "RRC State: Connected". Below the status bar are several configuration buttons: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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3.1.1.4 Test Mode = LTE /TM1 10MHz

3.1.1.4.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. The interface is divided into several sections:

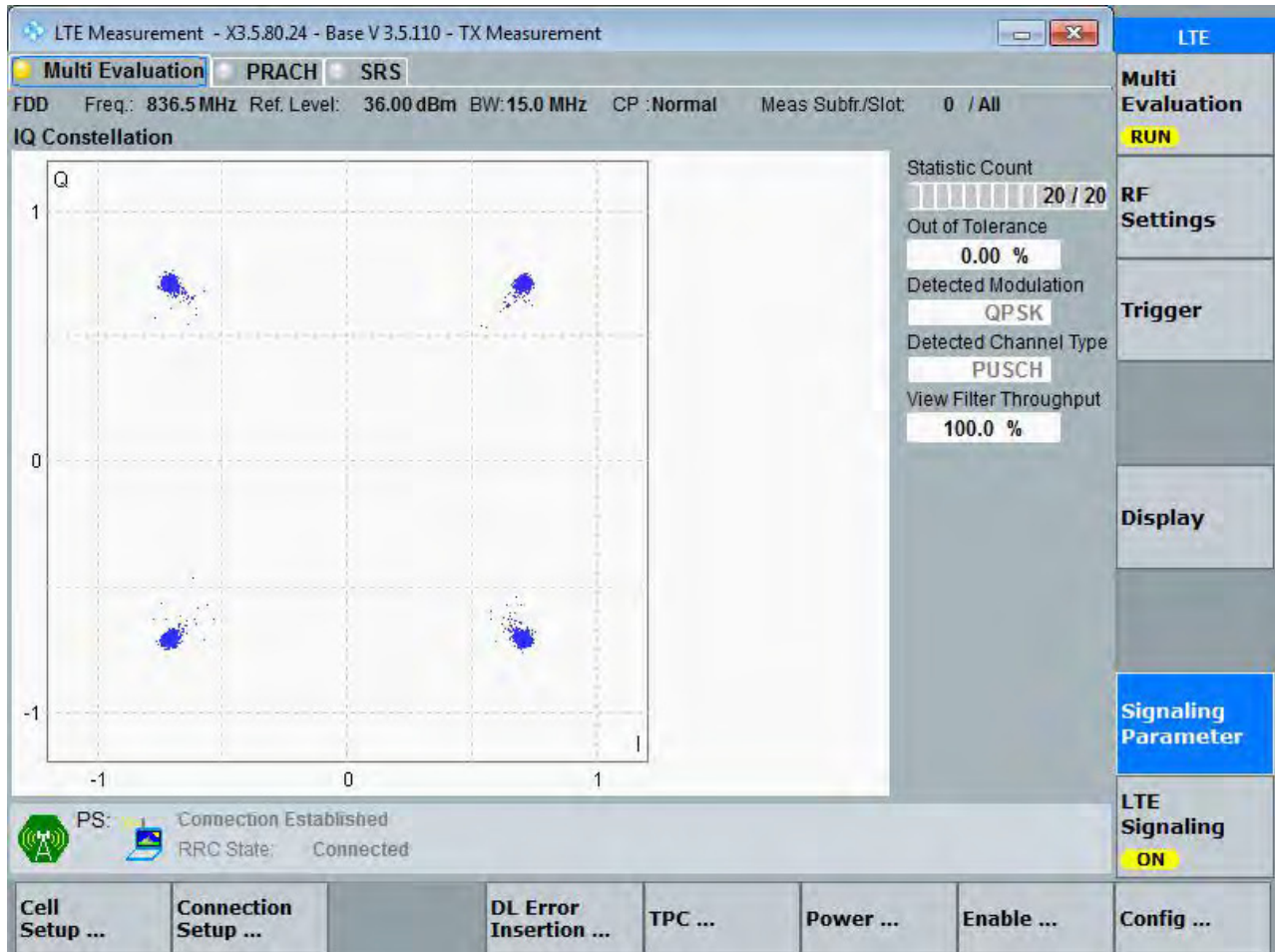
- Top Bar:** Shows 'Multi Evaluation', 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq: 836.5 MHz', 'Ref. Level: 36.20 dBm', 'BW: 10.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation:** A central plot showing the IQ constellation with four distinct clusters of blue dots, indicating QPSK modulation. The axes are labeled 'Q' (vertical) and 'I' (horizontal), ranging from -1 to 1.
- Statistics Panel:** Located on the right side, it includes:
 - Statistic Count: 20 / 20
 - Out of Tolerance: 0.00 %
 - Detected Modulation: QPSK
 - Detected Channel Type: PUSCH
 - View Filter Throughput: 100.0 %
- Right Sidebar:** Contains several control buttons: 'LTE' (blue), 'Multi Evaluation' (grey), 'RUN' (yellow), 'RF Settings' (grey), 'Trigger' (grey), 'Display' (grey), 'Signaling Parameter' (blue), and 'LTE Signaling' (grey) with a yellow 'ON' indicator.
- Bottom Status Bar:** Shows 'PS: Connection Established' and 'RRC State: Connected'. Below this is a row of configuration buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.5 Test Mode = LTE /TM1 15MHz

3.1.1.5.1 Test Channel = MCH

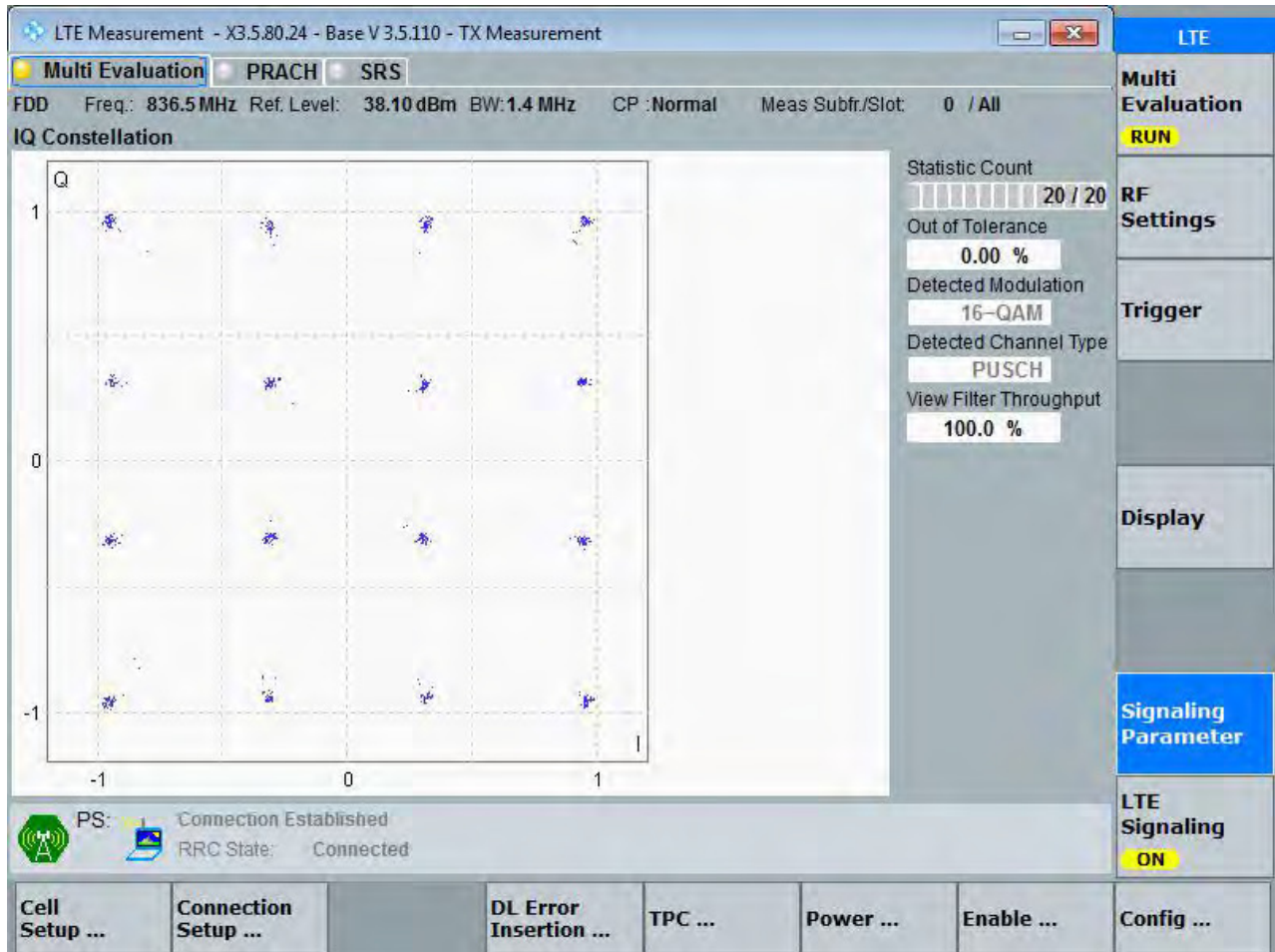


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3.1.1.6 Test Mode = LTE /TM2 1.4MHz

3.1.1.6.1 Test Channel = MCH

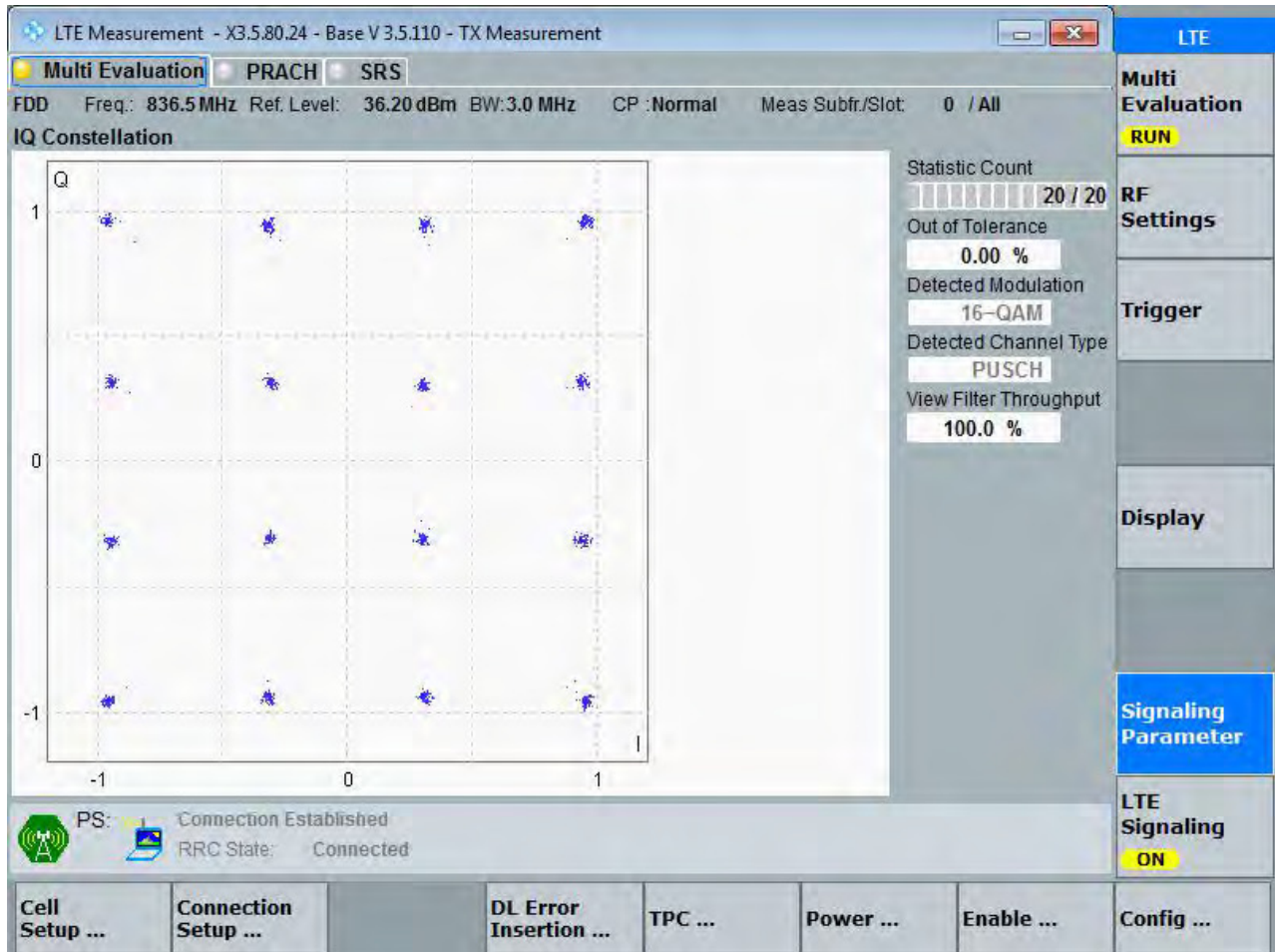


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3.1.1.7 Test Mode = LTE /TM2 3MHz

3.1.1.7.1 Test Channel = MCH

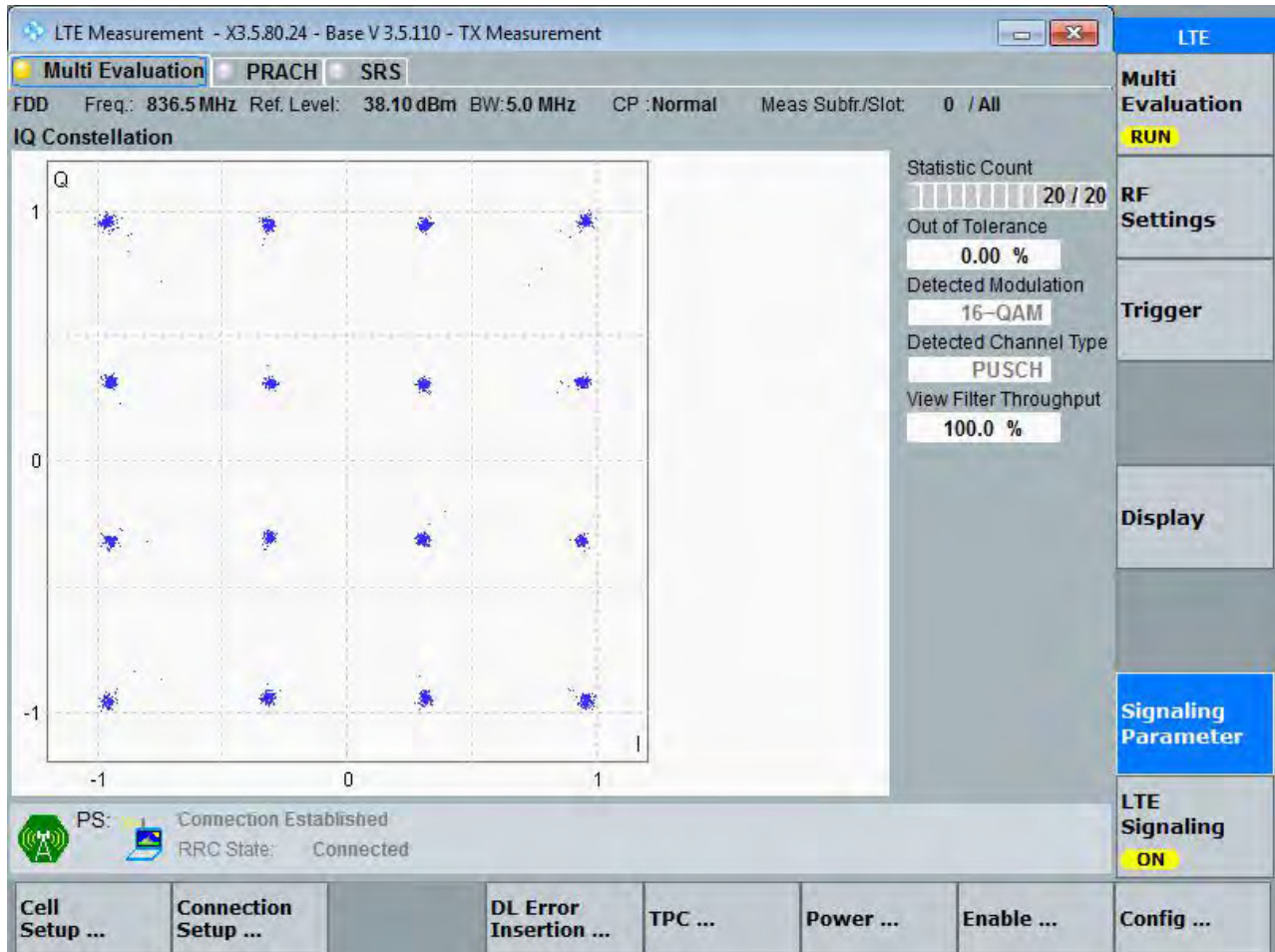


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3.1.1.8 Test Mode = LTE /TM2 5MHz

3.1.1.8.1 Test Channel = MCH

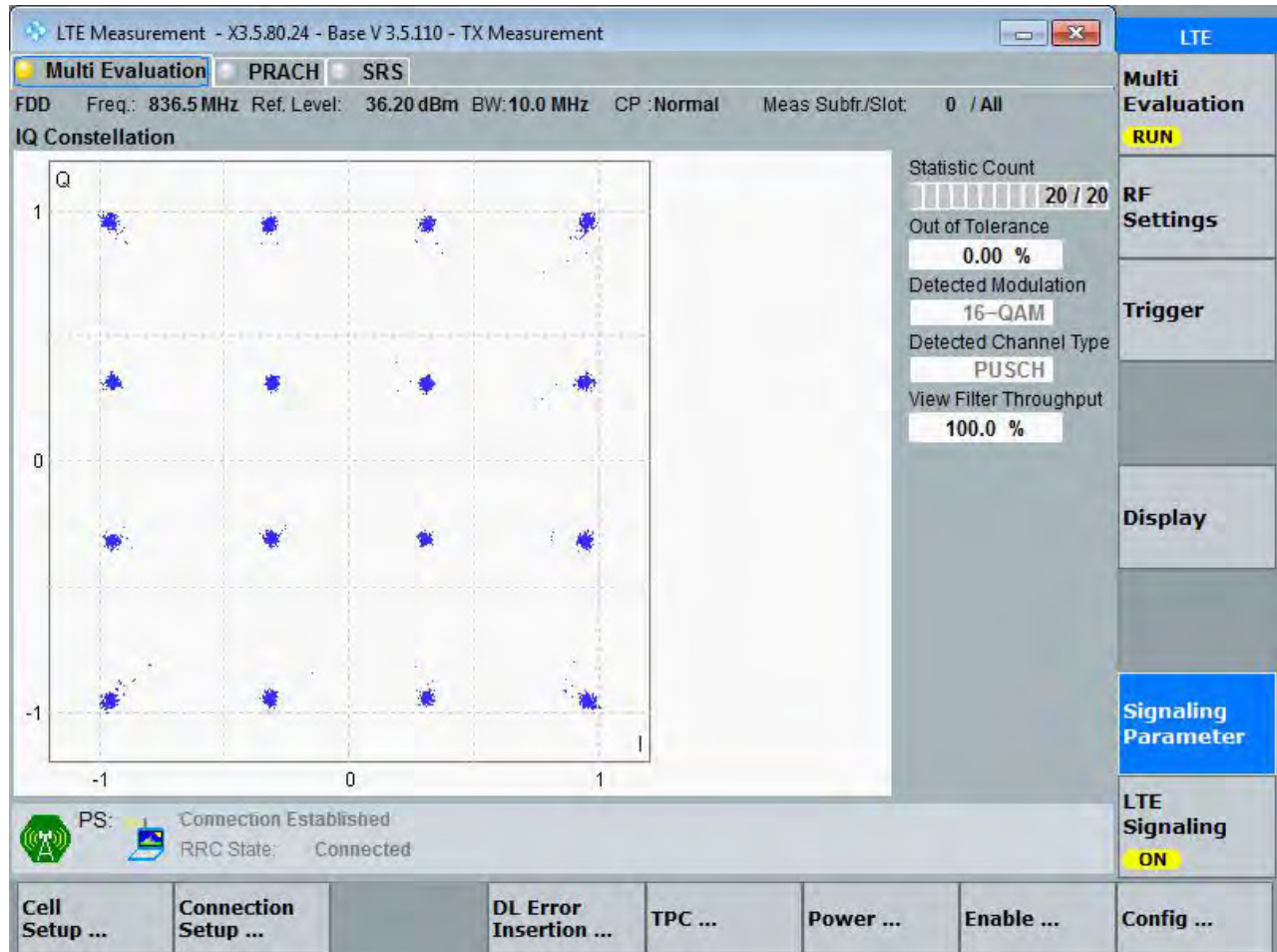


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3.1.1.9 Test Mode = LTE /TM2 10MHz

3.1.1.9.1 Test Channel = MCH

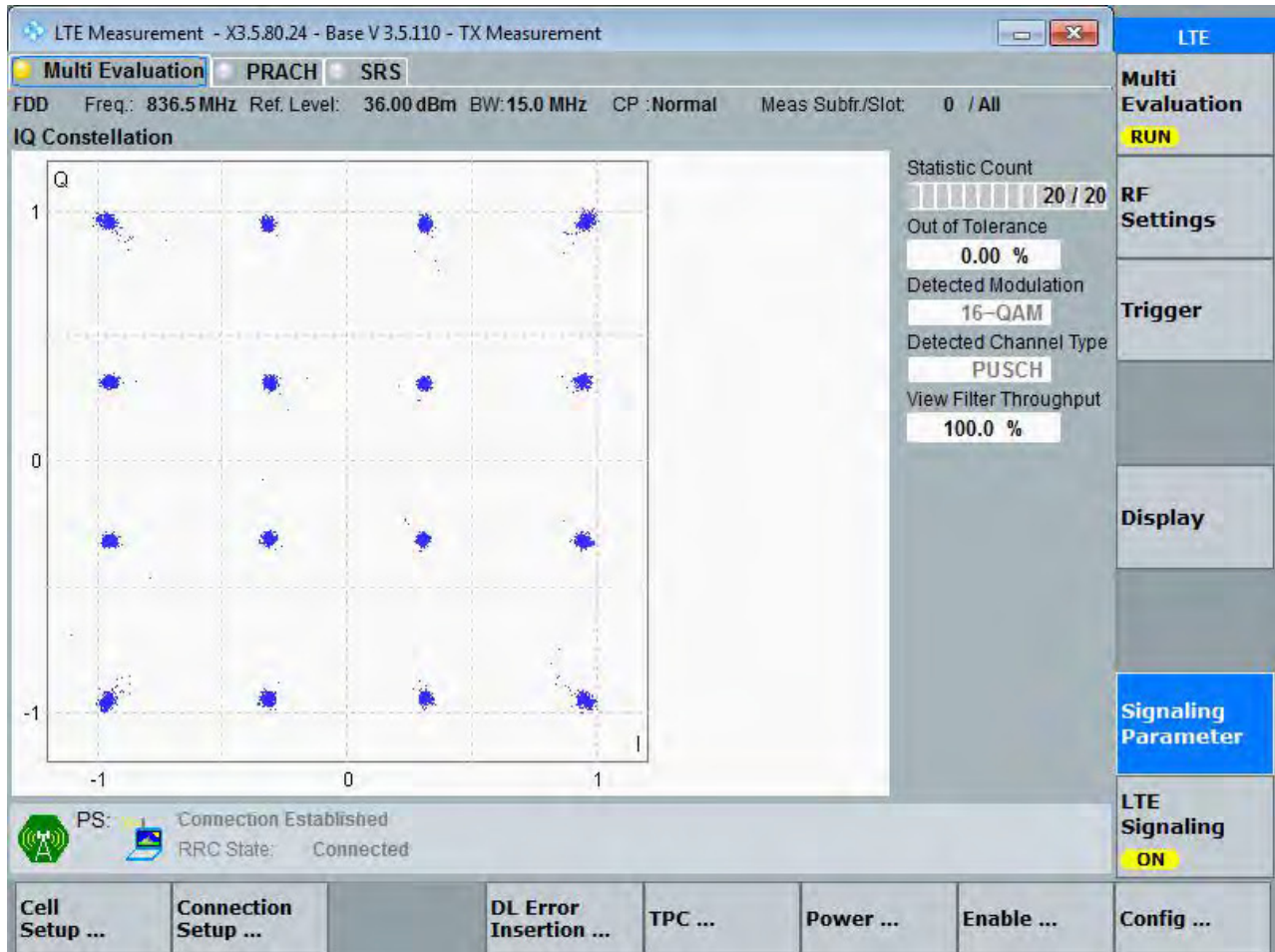


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3.1.1.10 Test Mode = LTE /TM2 15MHz

3.1.1.10.1 Test Channel = MCH



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3.1.1.11 Test Mode = LTE /TM3 1.4MHz

3.1.1.11.1 Test Channel = MCH

The screenshot displays the LTE Measurement software interface. The main window is titled "LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement". It features a "Multi Evaluation" tab and a "PRACH" sub-tab. The interface shows the following details:

- Measurement Parameters:** FDD, Freq: 836.5 MHz, Ref. Level: 38.10 dBm, BW: 1.4 MHz, CP: Normal, Meas Subfr./Slot: 0 / All.
- IQ Constellation:** A 2D plot showing the distribution of IQ samples. The vertical axis is labeled "Q" and the horizontal axis is labeled "I". Both axes range from -1 to 1.
- Statistic Count:** 20 / 20.
- Out of Tolerance:** 0.00 %.
- Detected Modulation:** 64-QAM.
- Detected Channel Type:** PUSCH.
- View Filter Throughput:** 100.0 %.

On the right side, there is a vertical toolbar with buttons for "Multi Evaluation" (RUN), "RF Settings", "Trigger", "Display", "Signaling Parameter", and "LTE Signaling" (ON). At the bottom, there is a status bar showing "PS: Connection Established" and "RRC State: Connected". Below the status bar, there are several tabs: "Cell Setup ...", "Connection Setup ...", "DL Error Insertion ...", "TPC ...", "Power ...", "Enable ...", and "Config ...".

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3.1.1.12 Test Mode = LTE /TM3 3MHz

3.1.1.12.1 Test Channel = MCH

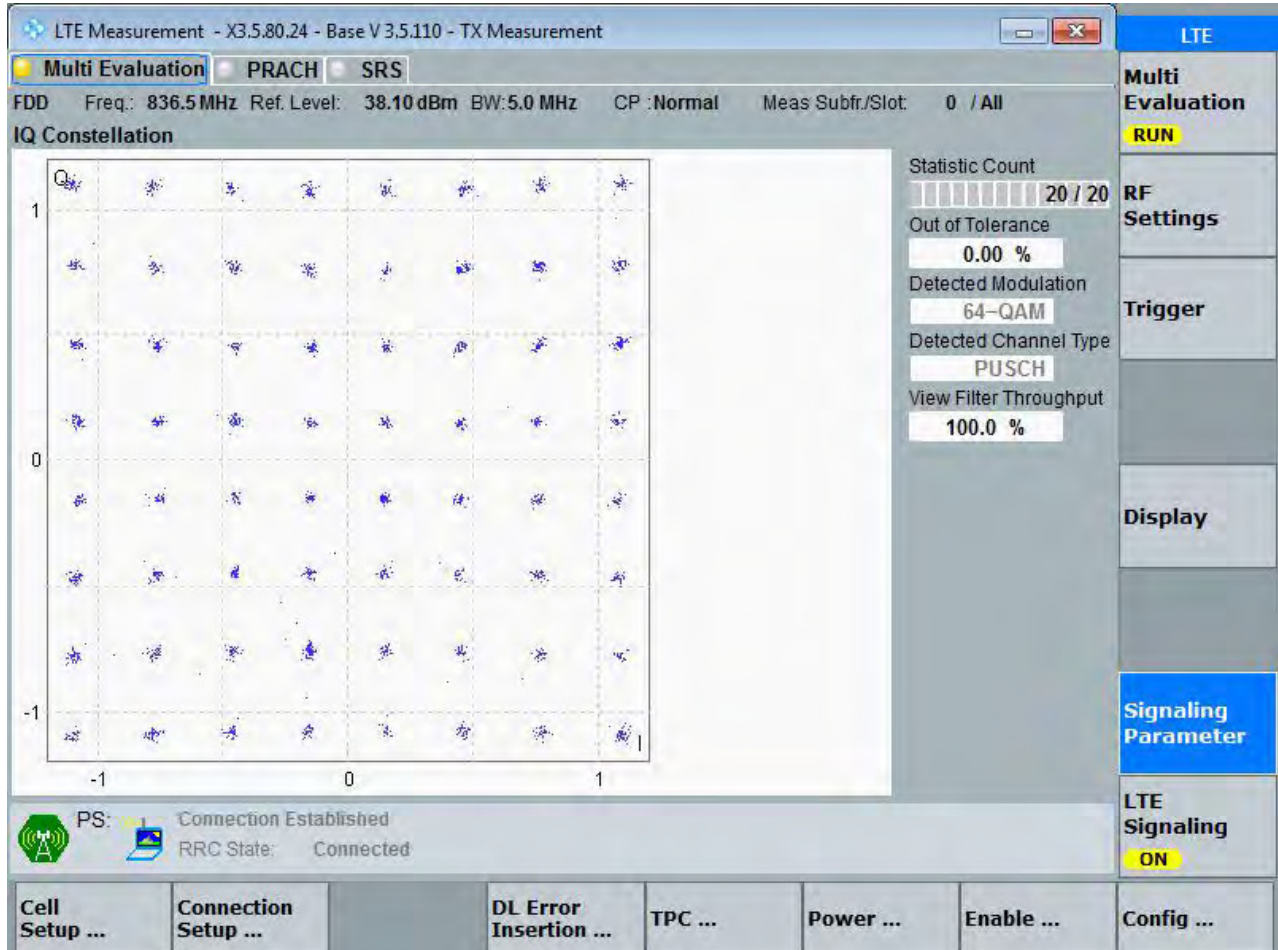
The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation' (selected), 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq: 836.5 MHz', 'Ref. Level: 36.20 dBm', 'BW: 3.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation:** A central plot showing a grid of points representing the IQ constellation. The vertical axis is labeled 'Q' and the horizontal axis is labeled 'I', both ranging from -1 to 1.
- Statistics Panel:** Located on the right side, it includes:
 - 'Statistic Count' with a progress bar and '9 / 20'.
 - 'Out of Tolerance' set to '0.00 %'.
 - 'Detected Modulation' set to '64-QAM'.
 - 'Detected Channel Type' set to 'PUSCH'.
 - 'View Filter Throughput' set to '100.0 %'.
- Right-Hand Side Panel:** A vertical stack of buttons and indicators:
 - 'LTE' (blue button)
 - 'Multi Evaluation' (grey button)
 - 'RUN' (yellow button)
 - 'RF Settings' (grey button)
 - 'Trigger' (grey button)
 - 'Display' (grey button)
 - 'Signaling Parameter' (blue button)
 - 'LTE Signaling' (grey button)
 - 'ON' (yellow button)
- Bottom Bar:** Shows connection status: 'PS: Connection Established' and 'RRC State: Connected'. Below this are several menu items: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.13 Test Mode = LTE /TM3 5MHz

3.1.1.13.1 Test Channel = MCH



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3.1.1.14 Test Mode = LTE /TM3 10MHz
3.1.1.14.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation' (selected), 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq: 836.5 MHz', 'Ref. Level: 36.20 dBm', 'BW: 10.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation:** A central plot showing a grid of blue points representing the IQ constellation. The axes range from -1 to 1.
- Statistic Count:** A progress bar showing '10 / 20'.
- Out of Tolerance:** A field showing '0.00 %'.
- Detected Modulation:** A field showing '64-QAM'.
- Detected Channel Type:** A field showing 'PUSCH'.
- View Filter Throughput:** A field showing '100.0 %'.
- Right Panel:** A vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.
- Bottom Bar:** A status bar showing 'PS: Connection Established' and 'RRC State: Connected'. Below this are several tabs: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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3.1.1.15 Test Mode = LTE /TM3 15MHz
3.1.1.15.1 Test Channel = MCH

The screenshot displays the 'LTE Measurement' software interface. The main window title is 'LTE Measurement - X3.5.80.24 - Base V 3.5.110 - TX Measurement'. The interface is divided into several sections:

- Top Bar:** Shows 'Multi Evaluation', 'PRACH', and 'SRS' tabs. Below this, it displays 'FDD', 'Freq: 836.5 MHz', 'Ref. Level: 36.00 dBm', 'BW: 15.0 MHz', 'CP: Normal', and 'Meas Subfr./Slot: 0 / All'.
- IQ Constellation:** A central plot showing a grid of blue dots representing the IQ constellation. The axes are labeled from -1 to 1.
- Statistic Count:** A progress bar showing '20 / 20'.
- Out of Tolerance:** A field showing '0.00 %'.
- Detected Modulation:** A field showing '64-QAM'.
- Detected Channel Type:** A field showing 'PUSCH'.
- View Filter Throughput:** A field showing '100.0 %'.
- Right Panel:** A vertical sidebar with buttons for 'LTE', 'Multi Evaluation', 'RUN', 'RF Settings', 'Trigger', 'Display', 'Signaling Parameter', and 'LTE Signaling ON'.
- Bottom Bar:** A status bar showing 'PS: Connection Established' and 'RRC State: Connected'. Below this are several buttons: 'Cell Setup ...', 'Connection Setup ...', 'DL Error Insertion ...', 'TPC ...', 'Power ...', 'Enable ...', and 'Config ...'.

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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 26 (824-849)	TM1/1.4MHz	LCH	1.09	1.25	PASS
		MCH	1.09	1.24	PASS
		HCH	1.10	1.24	PASS
	TM2/1.4MHz	LCH	1.09	1.23	PASS
		MCH	1.09	1.25	PASS
		HCH	1.09	1.25	PASS
	TM3/1.4MHz	LCH	1.10	1.25	PASS
		MCH	1.09	1.23	PASS
		HCH	1.09	1.24	PASS
	TM1/ 3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.94	PASS
	TM2/3MHz	LCH	2.68	2.95	PASS
		MCH	2.69	2.95	PASS
		HCH	2.68	2.94	PASS
	TM3/3MHz	LCH	2.69	2.94	PASS
		MCH	2.69	2.93	PASS
		HCH	2.69	2.93	PASS
	TM1/ 5MHz	LCH	4.49	4.90	PASS
		MCH	4.49	4.93	PASS
		HCH	4.48	4.90	PASS
	TM2/ 5MHz	LCH	4.50	4.90	PASS
		MCH	4.48	4.86	PASS
		HCH	4.48	4.93	PASS
	TM3/5MHz	LCH	4.47	4.86	PASS
		MCH	4.48	4.92	PASS
		HCH	4.47	4.86	PASS
TM1/10MHz	LCH	8.93	9.67	PASS	
	MCH	8.95	9.71	PASS	
	HCH	8.93	9.69	PASS	
TM2/ 10MHz	LCH	8.95	9.69	PASS	
	MCH	8.93	9.59	PASS	
	HCH	8.95	9.67	PASS	

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Shenzhen Branch**

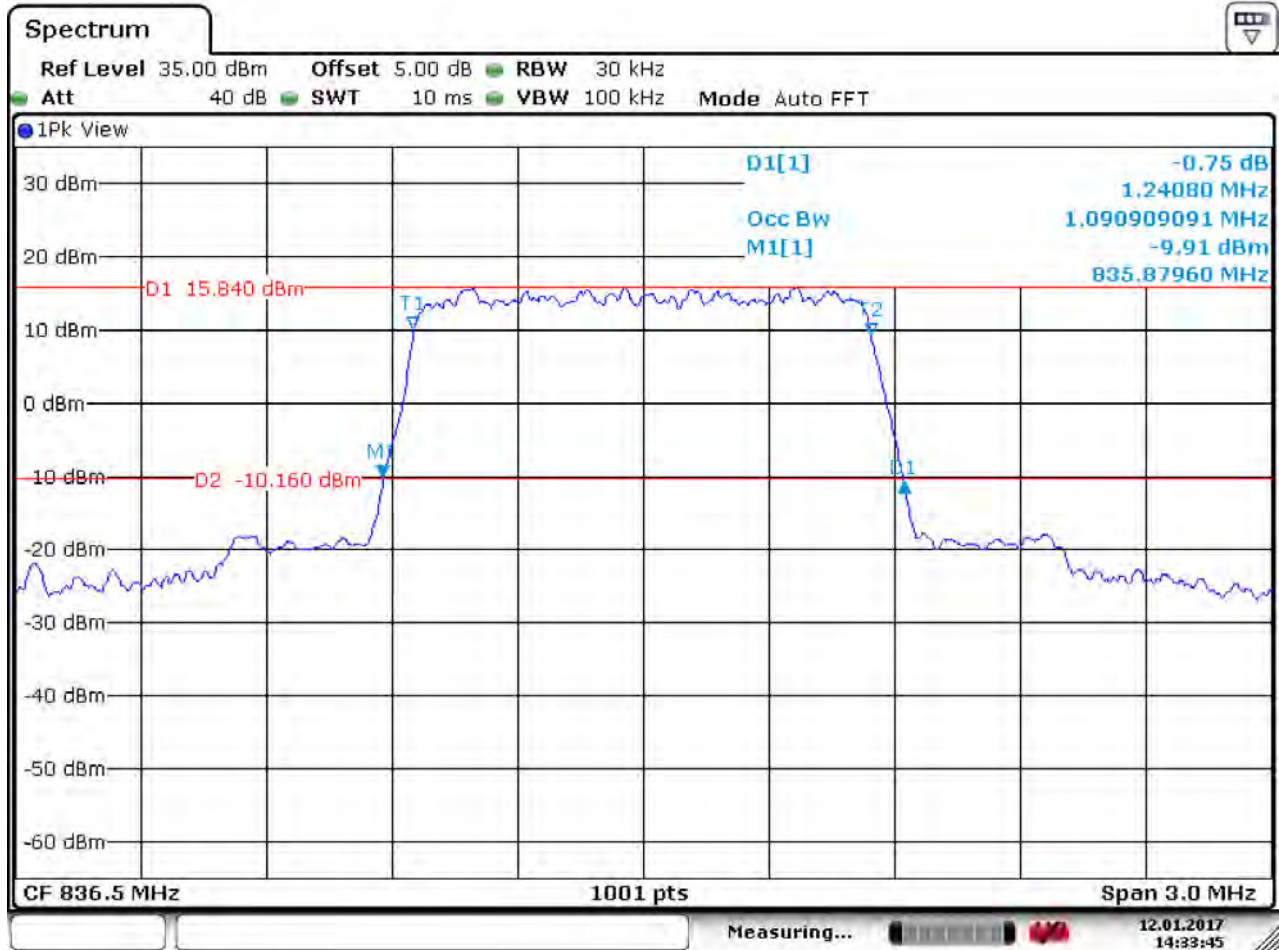
Report No.: SZEM170100023101
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Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
Band 26 (824-849)	TM3/ 10MHz	LCH	8.93	9.67	PASS
		MCH	8.93	9.65	PASS
		HCH	8.93	9.61	PASS
	TM1/15MHz	LCH	13.46	14.80	PASS
		MCH	13.49	14.81	PASS
		HCH	13.43	14.72	PASS
	TM2/ 15MHz	LCH	13.49	14.74	PASS
		MCH	13.49	14.72	PASS
		HCH	13.43	14.72	PASS
	TM3/ 15MHz	LCH	13.49	14.77	PASS
		MCH	13.46	14.81	PASS
		HCH	13.49	14.66	PASS

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4.1.1.1.2 Test Channel = MCH

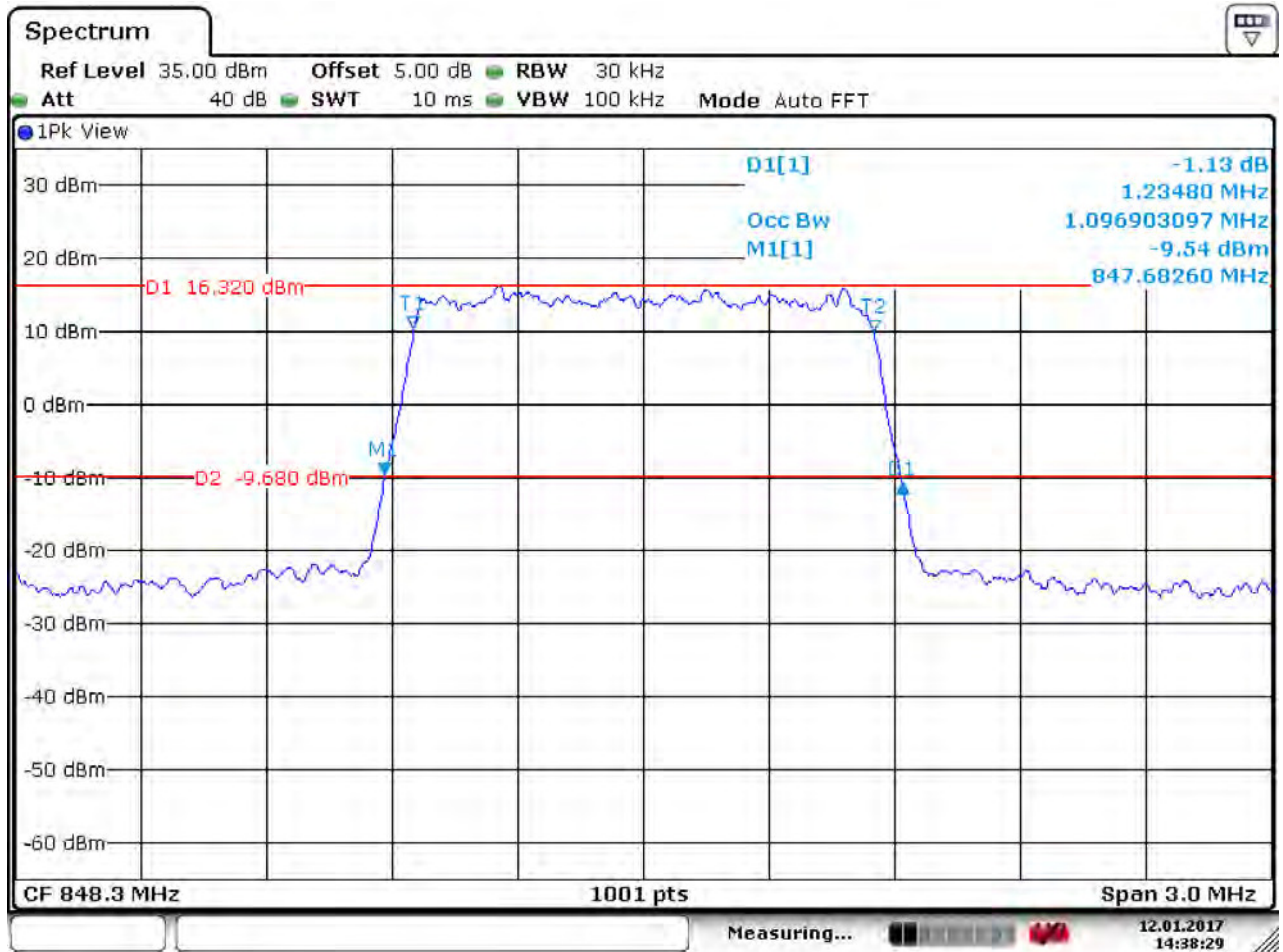


Date: 12 JAN. 2017 14:33:45

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4.1.1.1.3 Test Channel = HCH

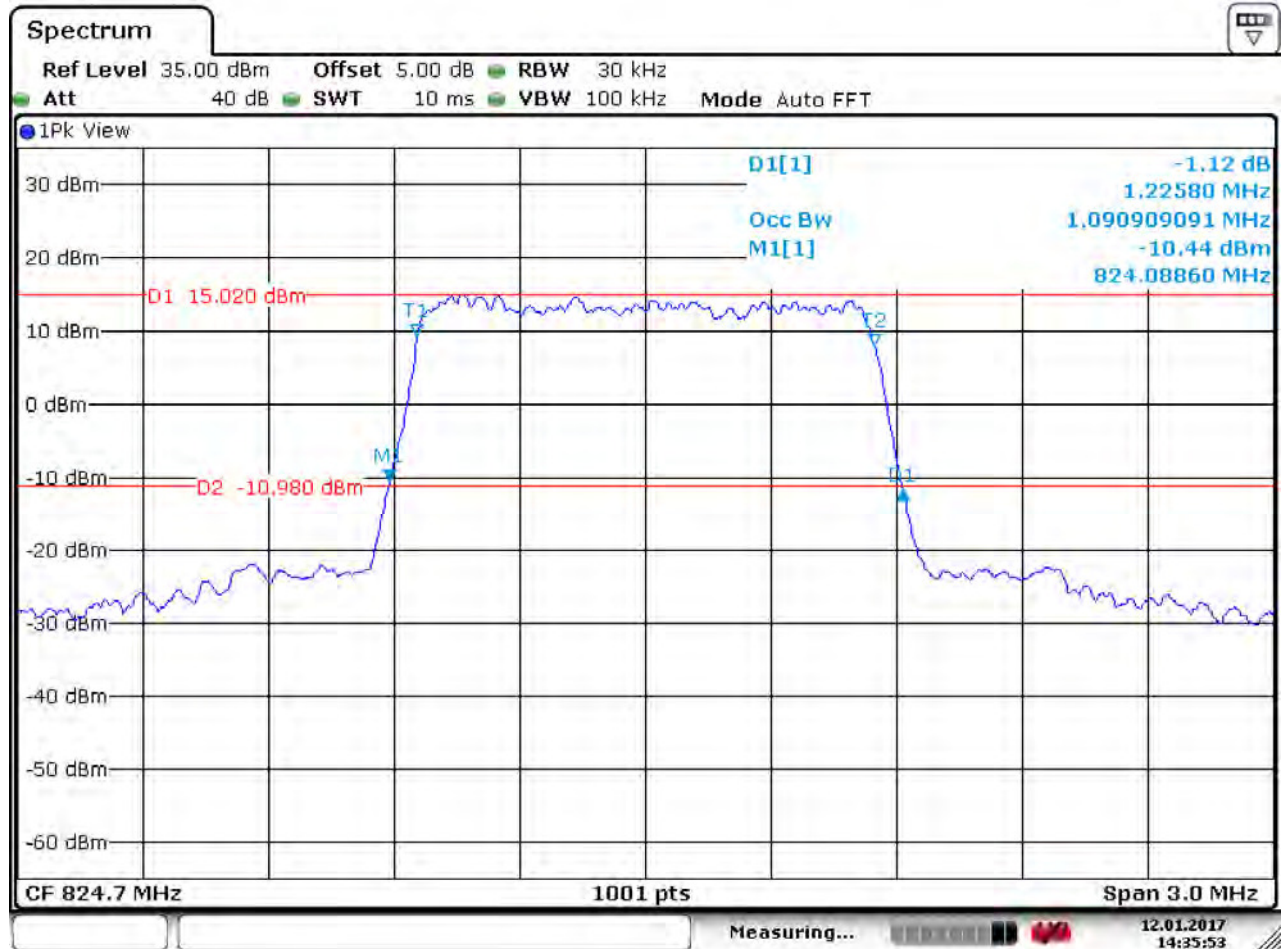


Date: 12.JAN.2017 14:38:29

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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

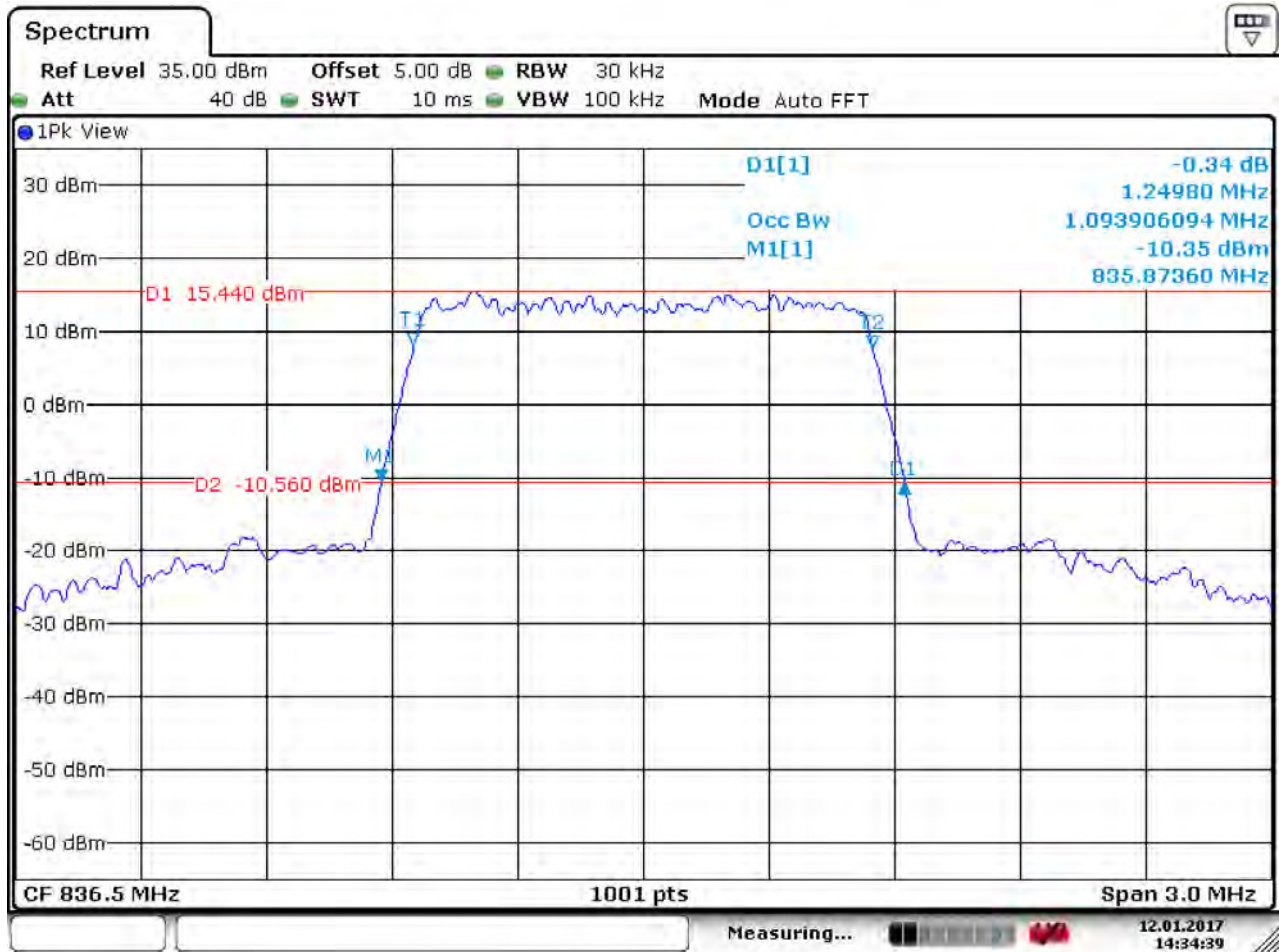
4.1.1.2.1 Test Channel = LCH



Date: 12.JAN.2017 14:35:54



4.1.1.2.2 Test Channel = MCH

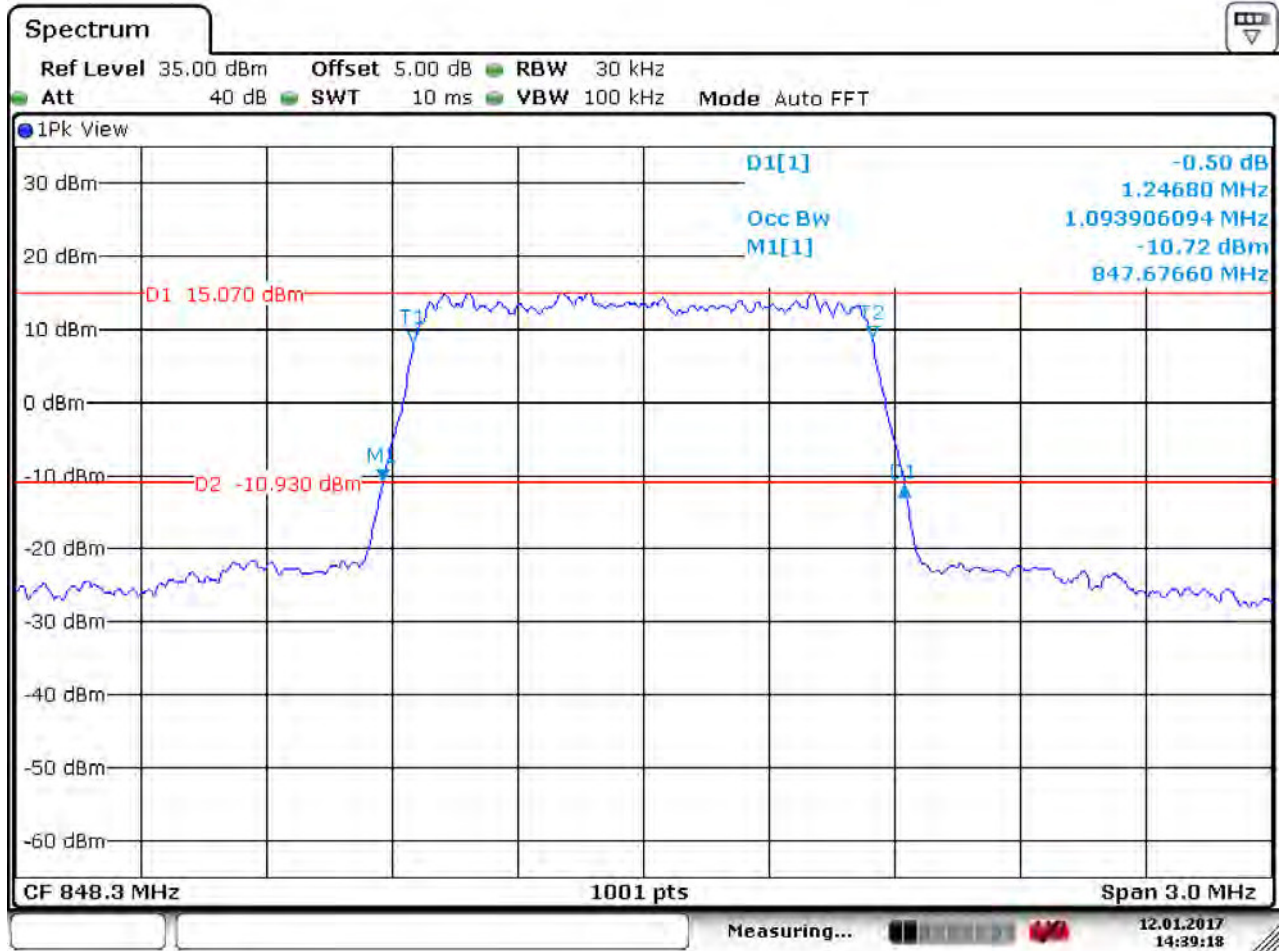


Date: 12.JAN.2017 14:34:40

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4.1.1.2.3 Test Channel = HCH

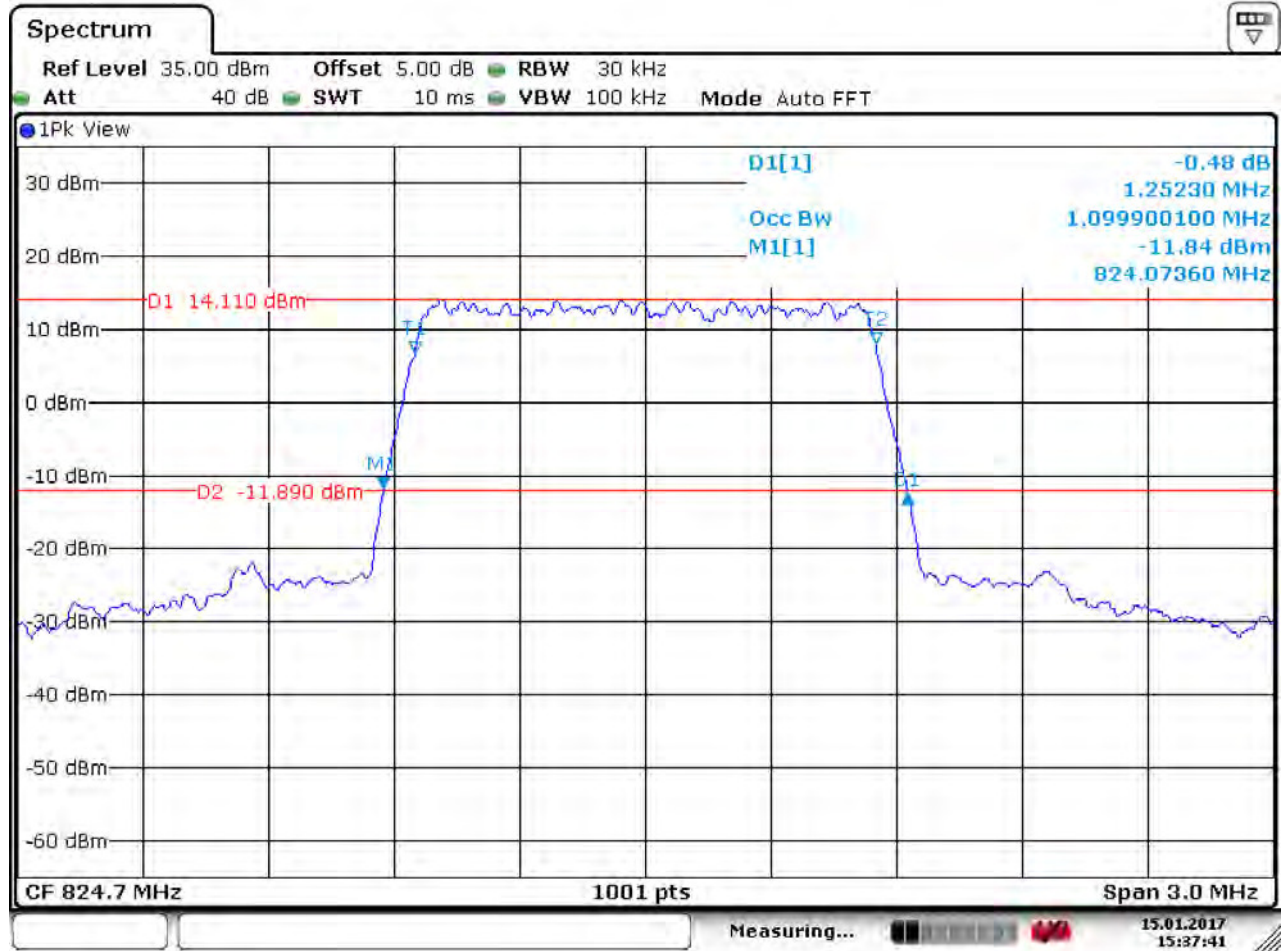


Date: 12.JAN.2017 14:39:19

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4.1.1.3 Test Mode = LTE/TM3 1.4MHz

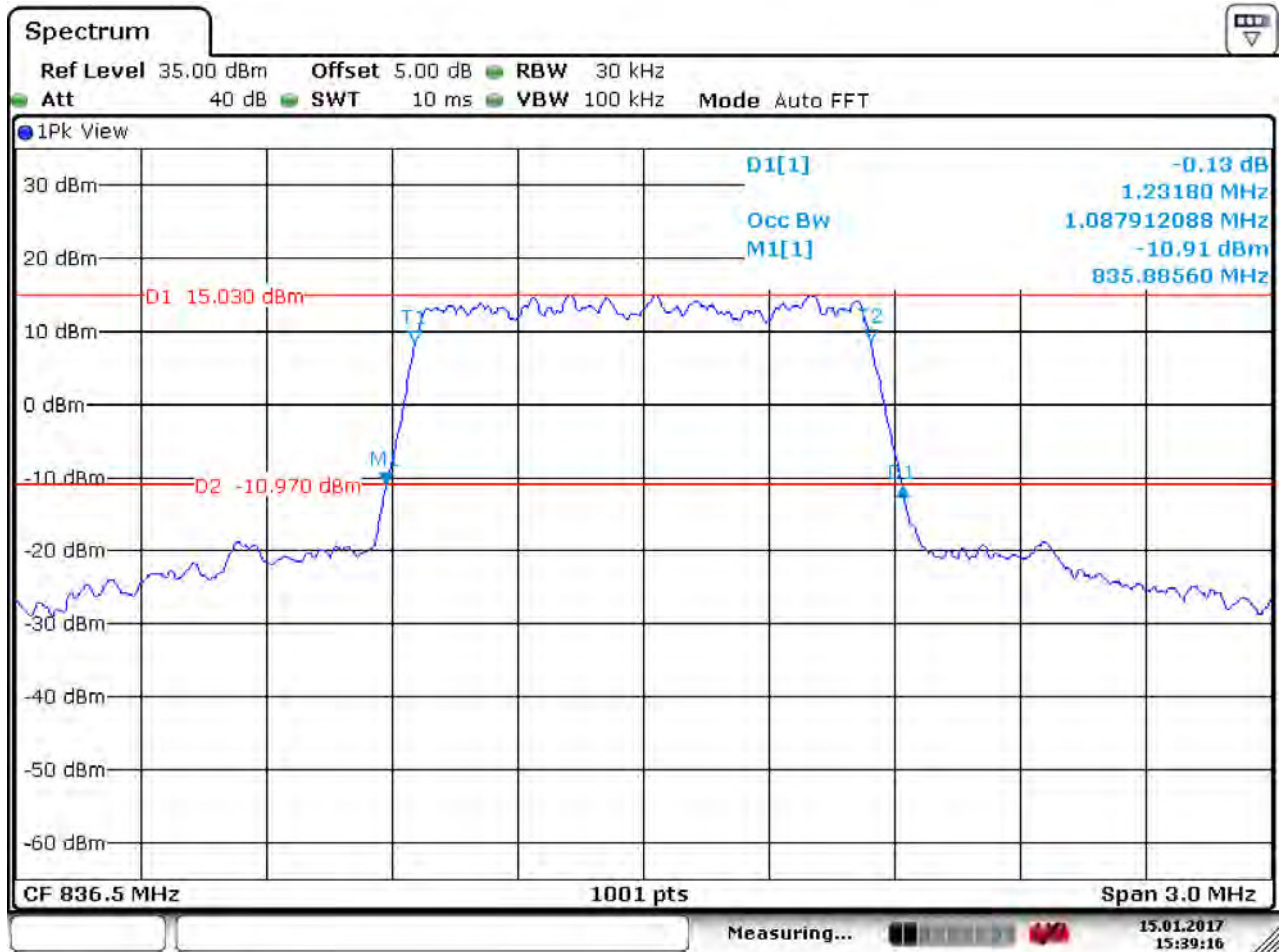
4.1.1.3.1 Test Channel = LCH



Date: 15.JAN.2017 15:37:41



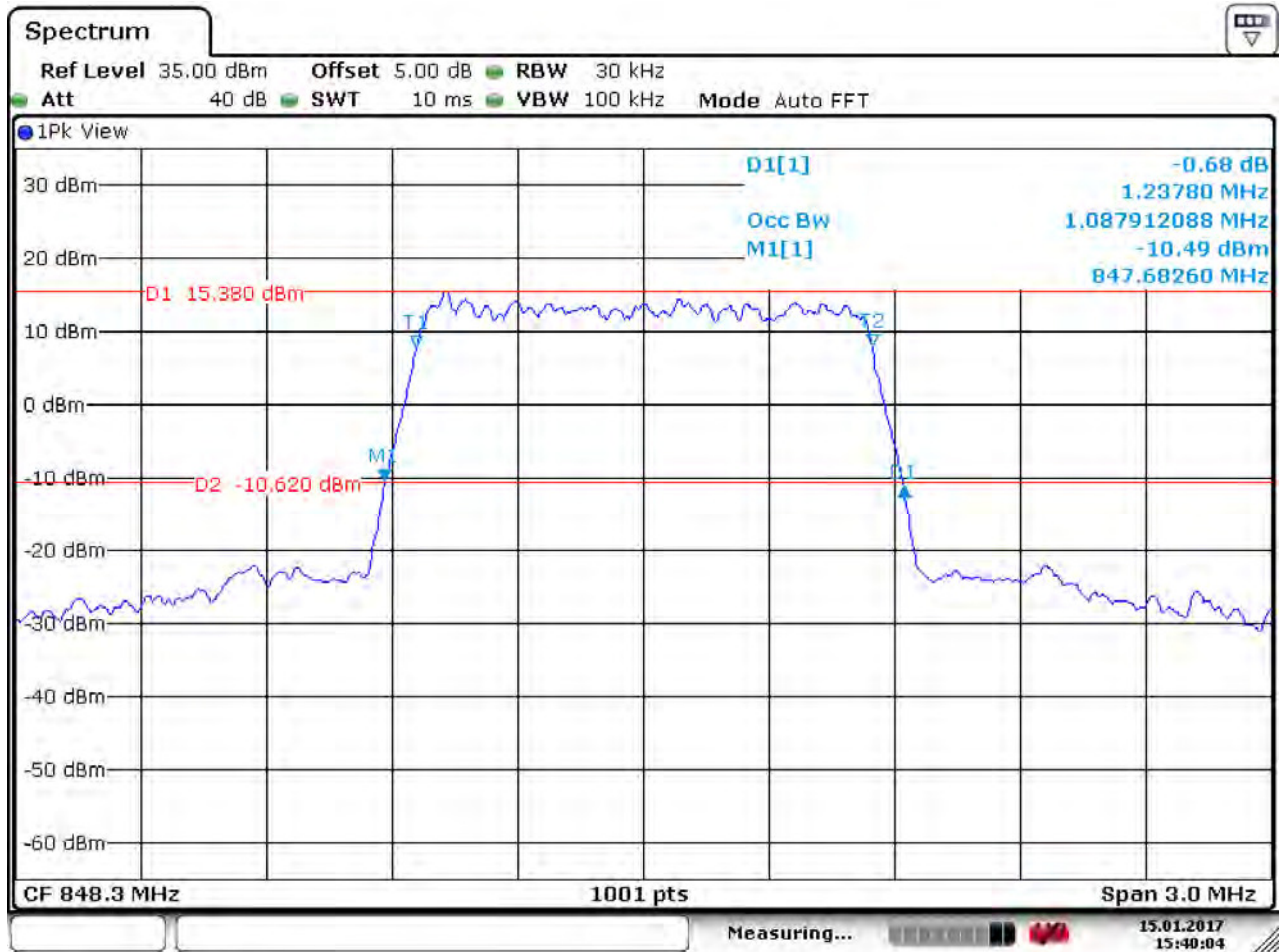
4.1.1.3.2 Test Channel = MCH



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4.1.1.3.3 Test Channel = HCH

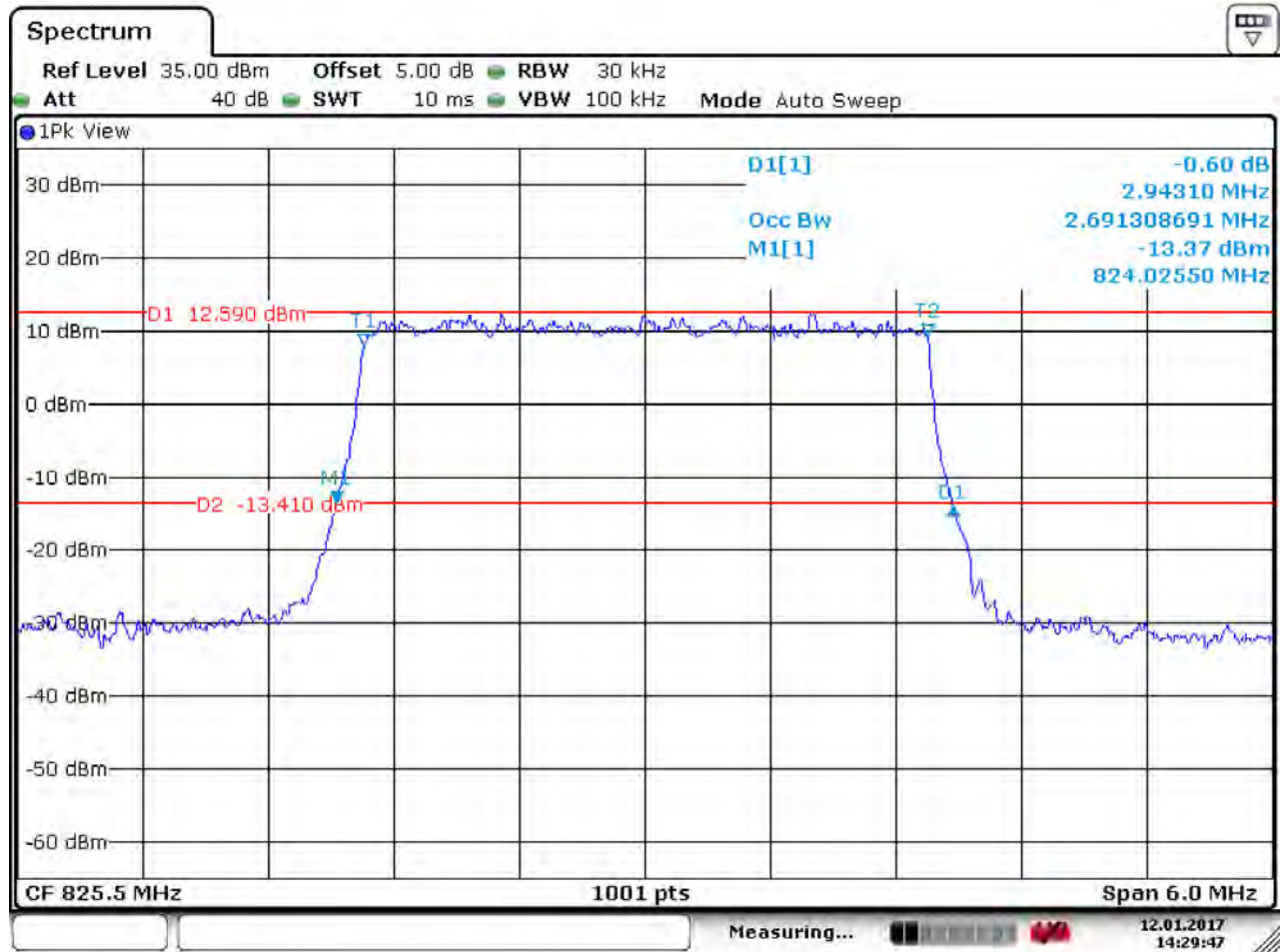


Date: 15.JAN.2017 15:40:05



4.1.1.4 Test Mode = LTE/TM1 3MHz

4.1.1.4.1 Test Channel = LCH

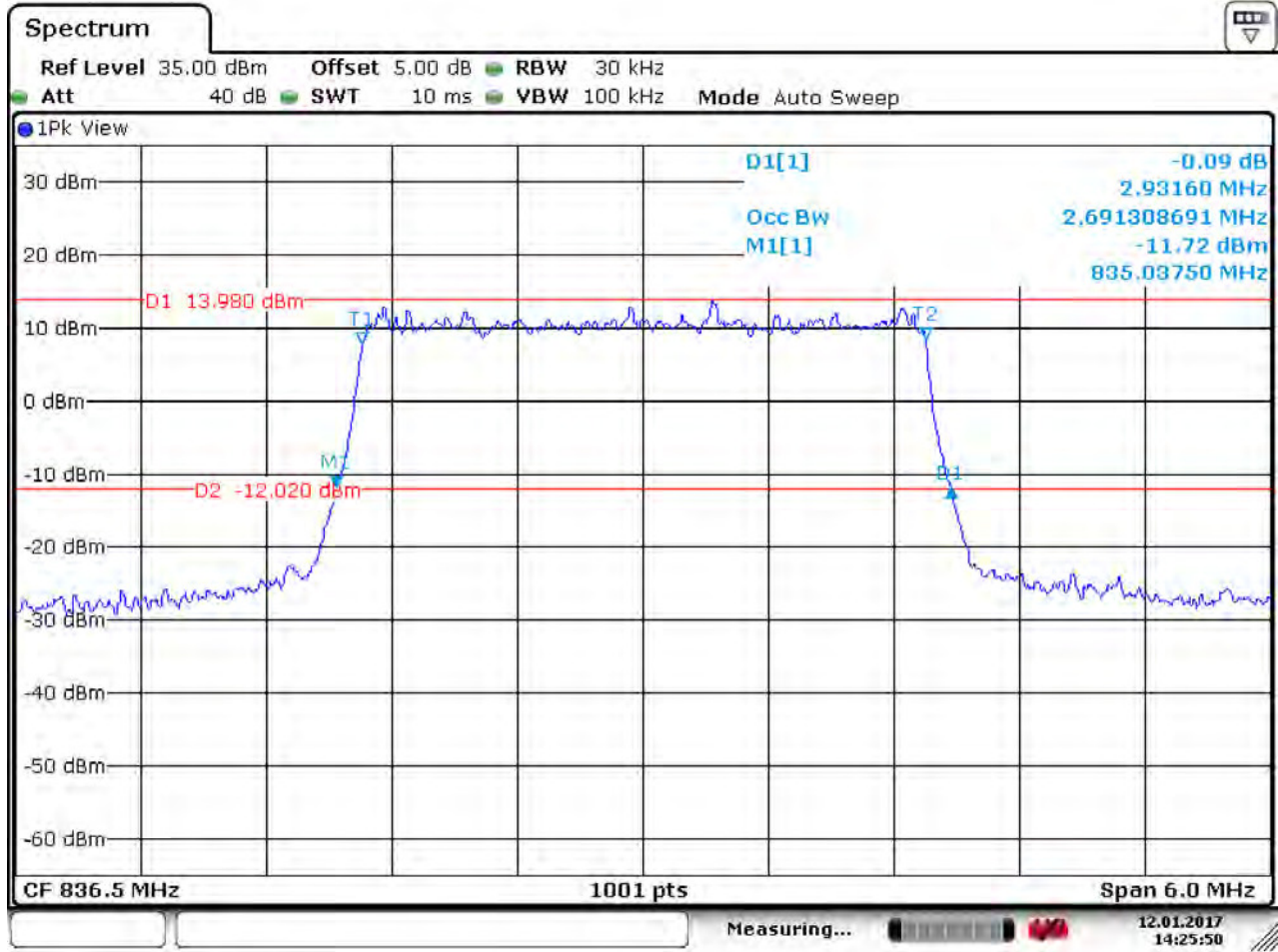


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4.1.1.4.2 Test Channel = MCH

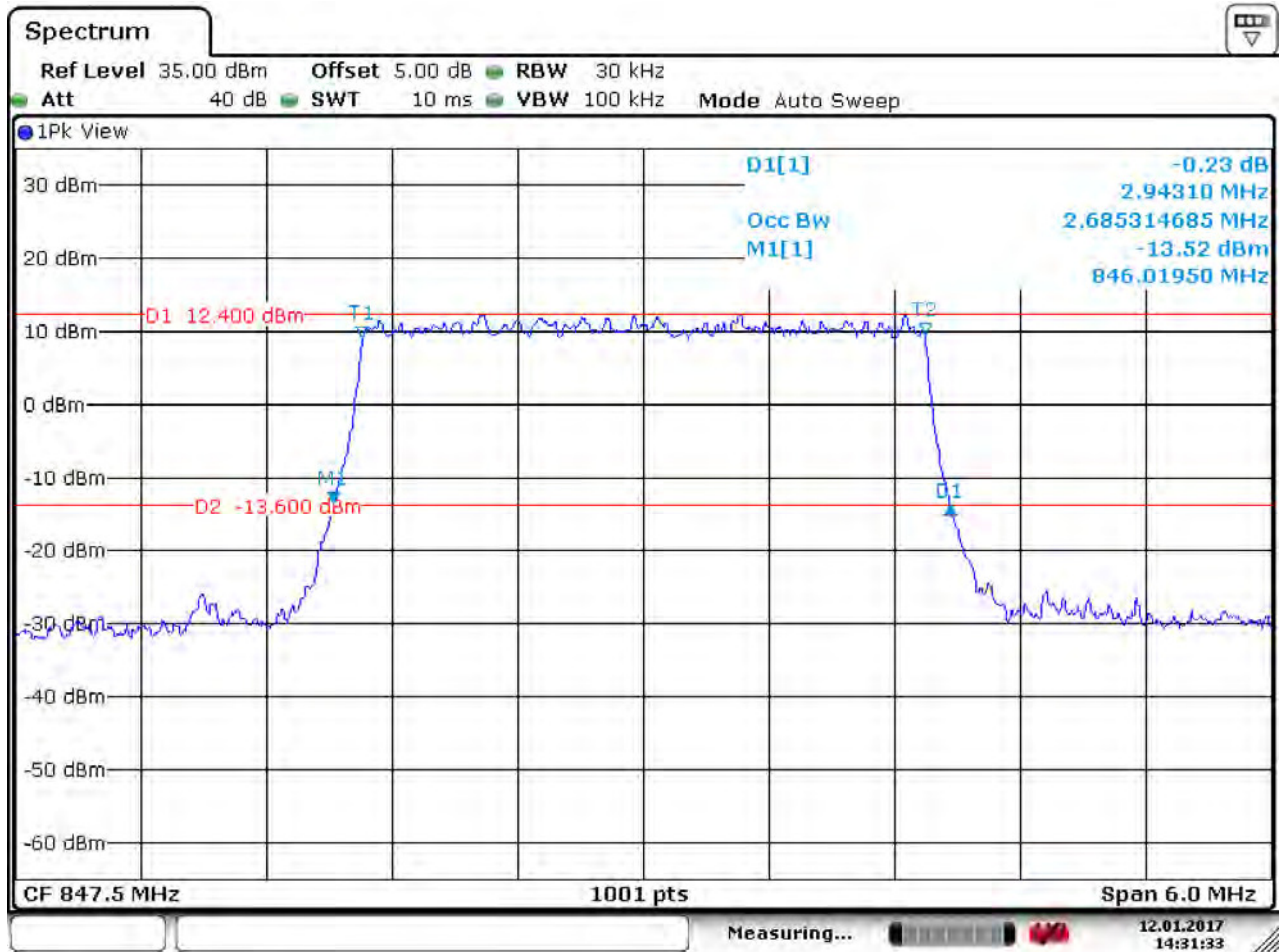


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4.1.1.4.3 Test Channel = HCH

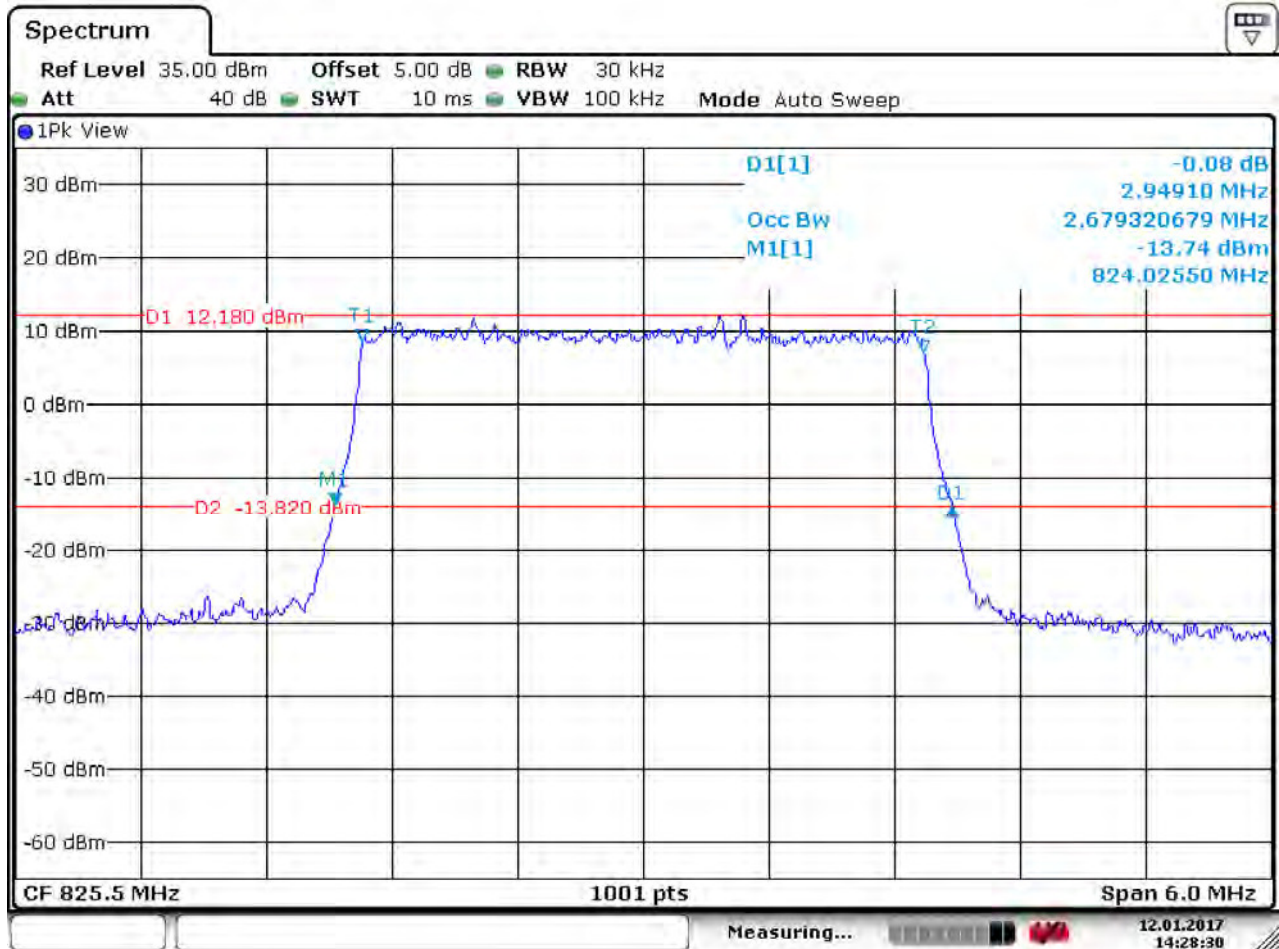


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4.1.1.5 Test Mode = LTE/TM2 3MHz

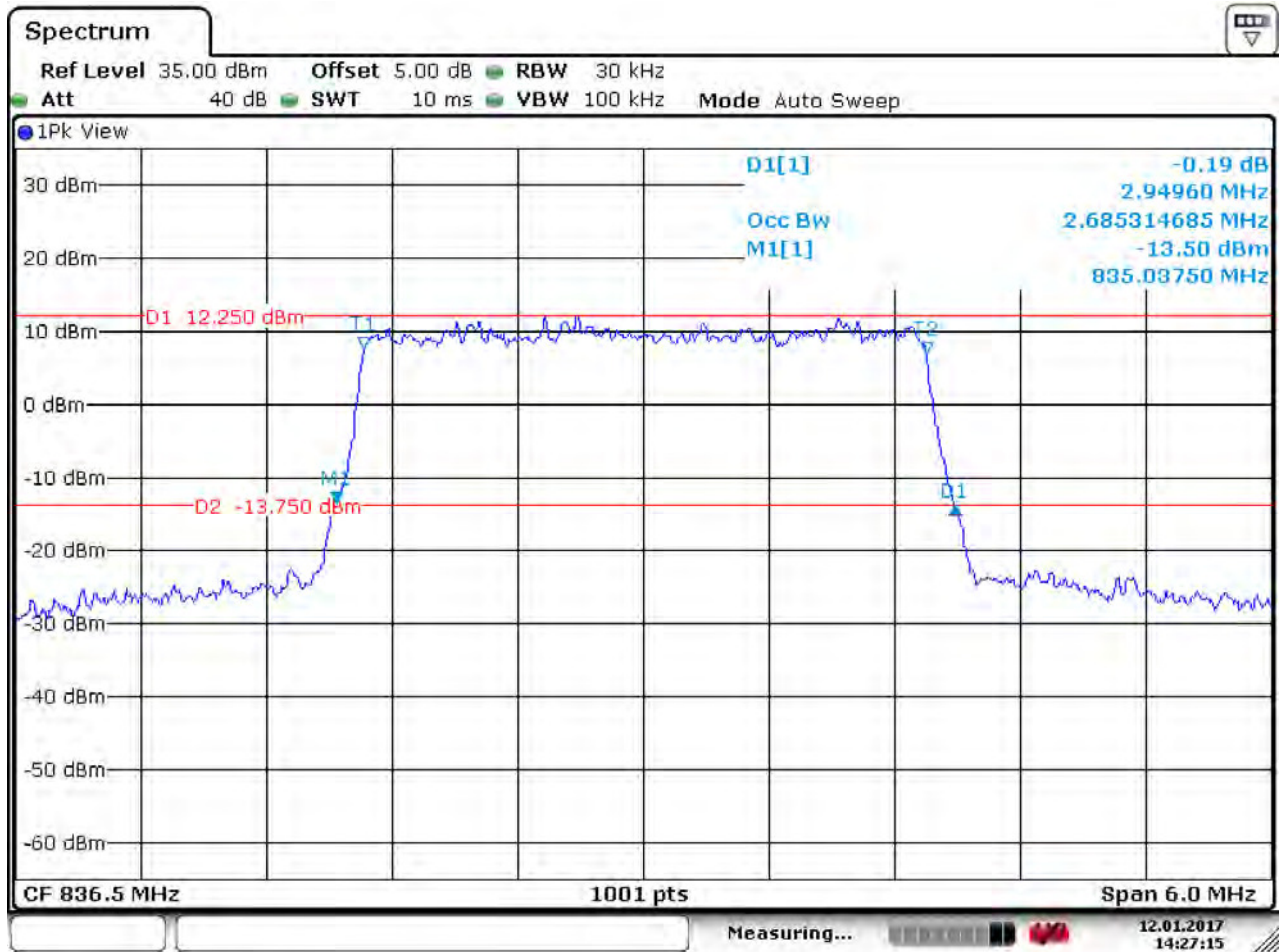
4.1.1.5.1 Test Channel = LCH



Date: 12.JAN.2017 14:28:31



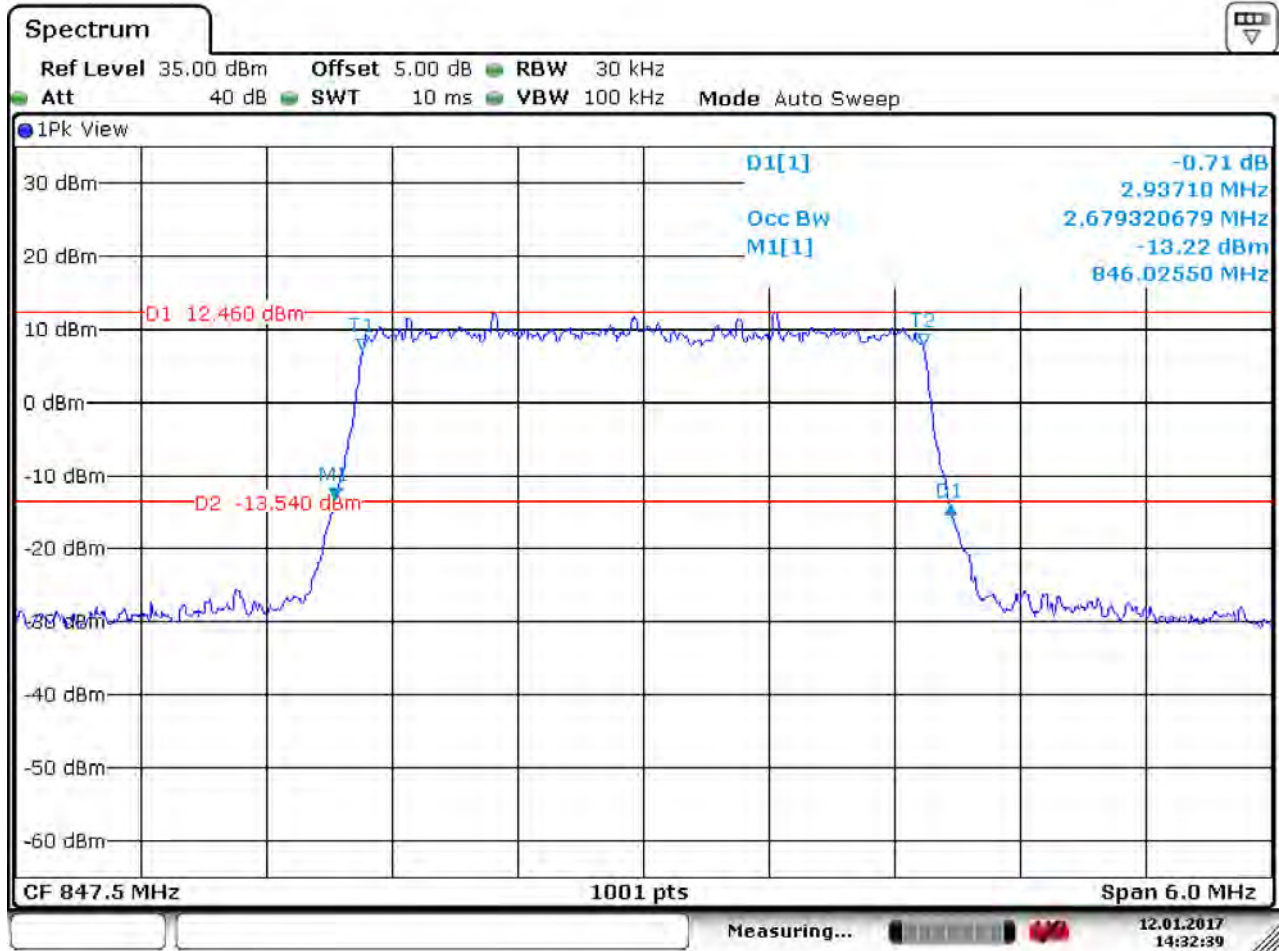
4.1.1.5.2 Test Channel = MCH



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4.1.1.5.3 Test Channel = HCH

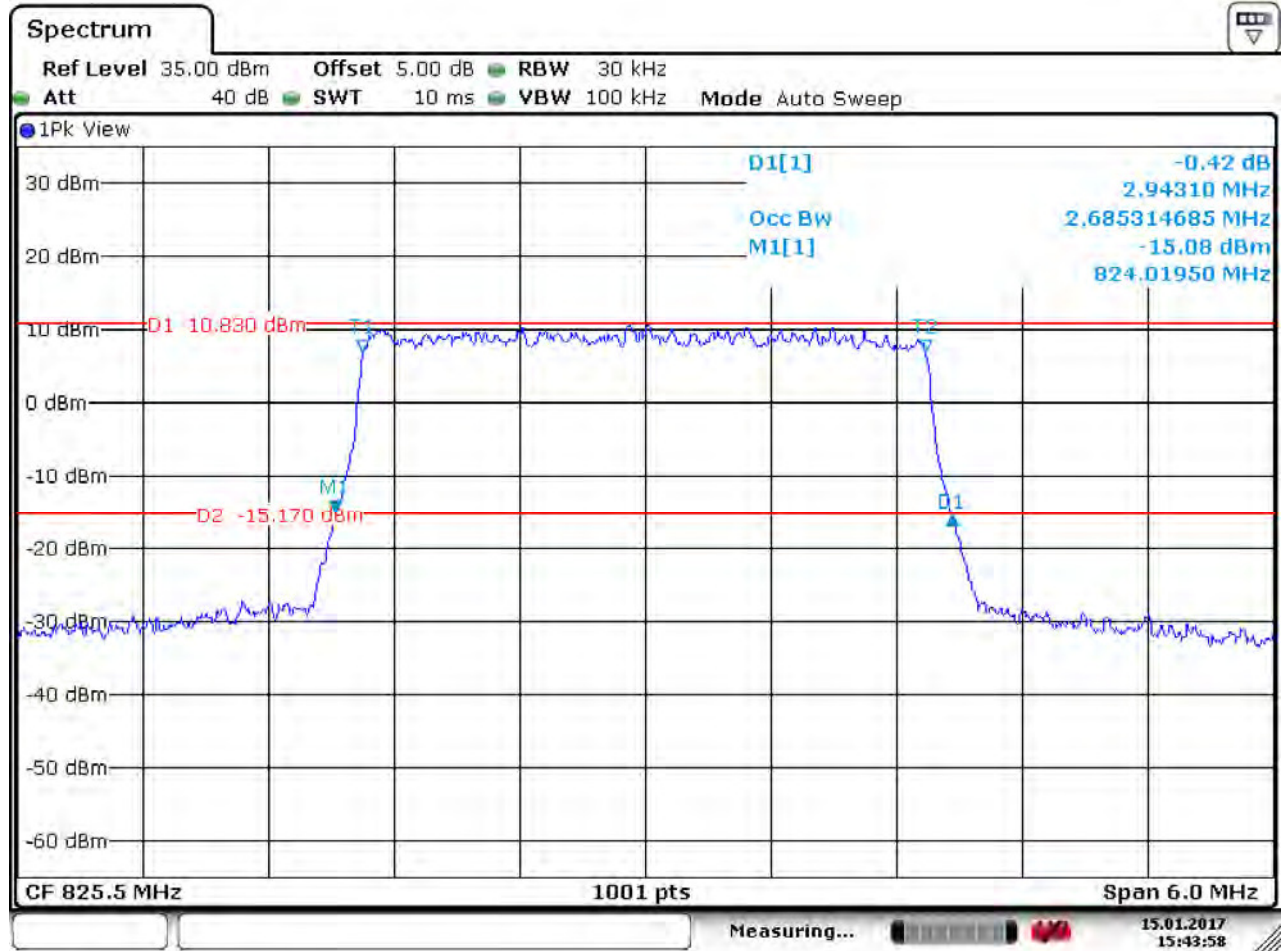


Date: 12.JAN.2017 14:32:40



4.1.1.6 Test Mode = LTE/TM3 3MHz

4.1.1.6.1 Test Channel = LCH

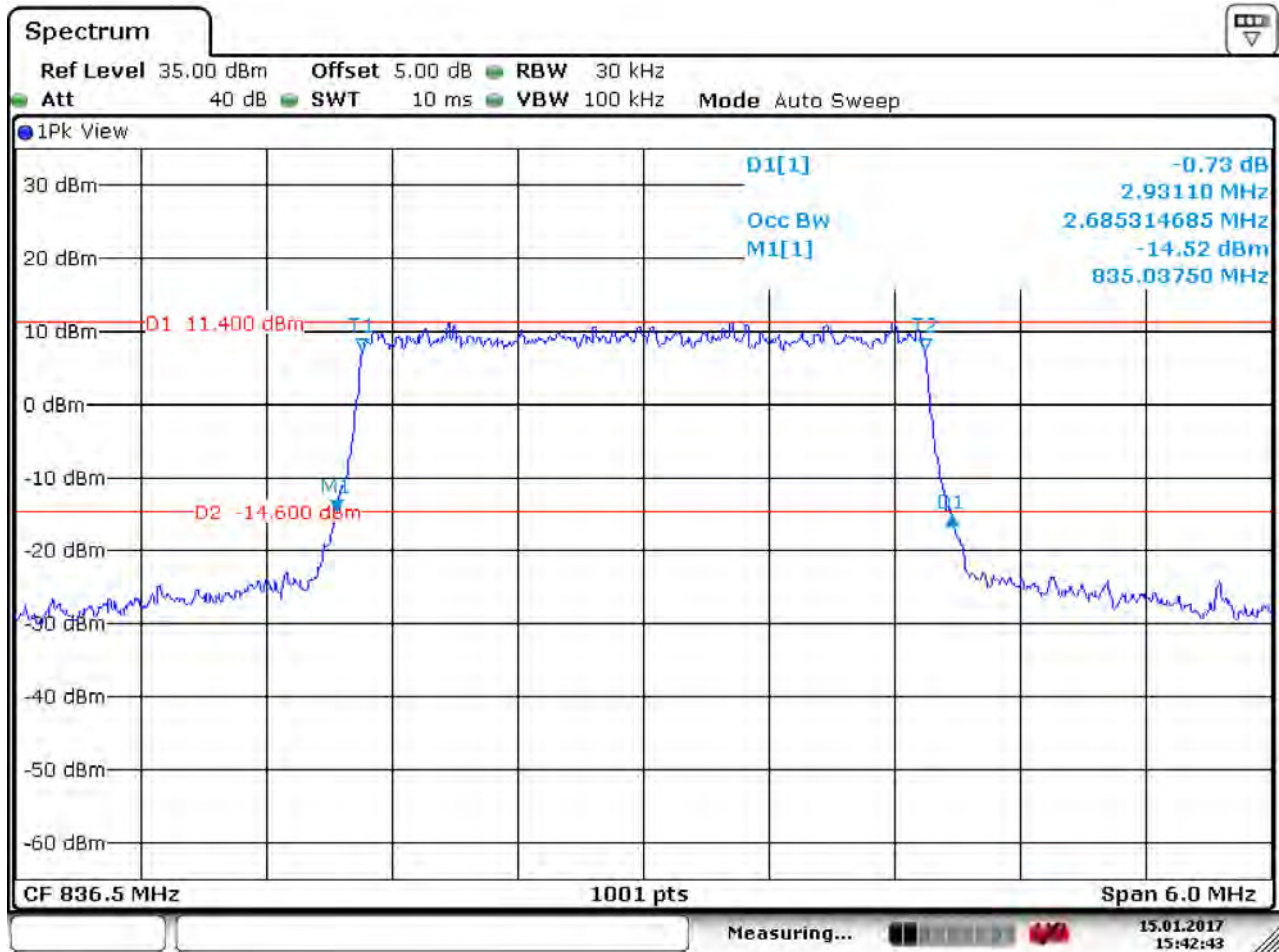


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4.1.1.6.2 Test Channel =MCH

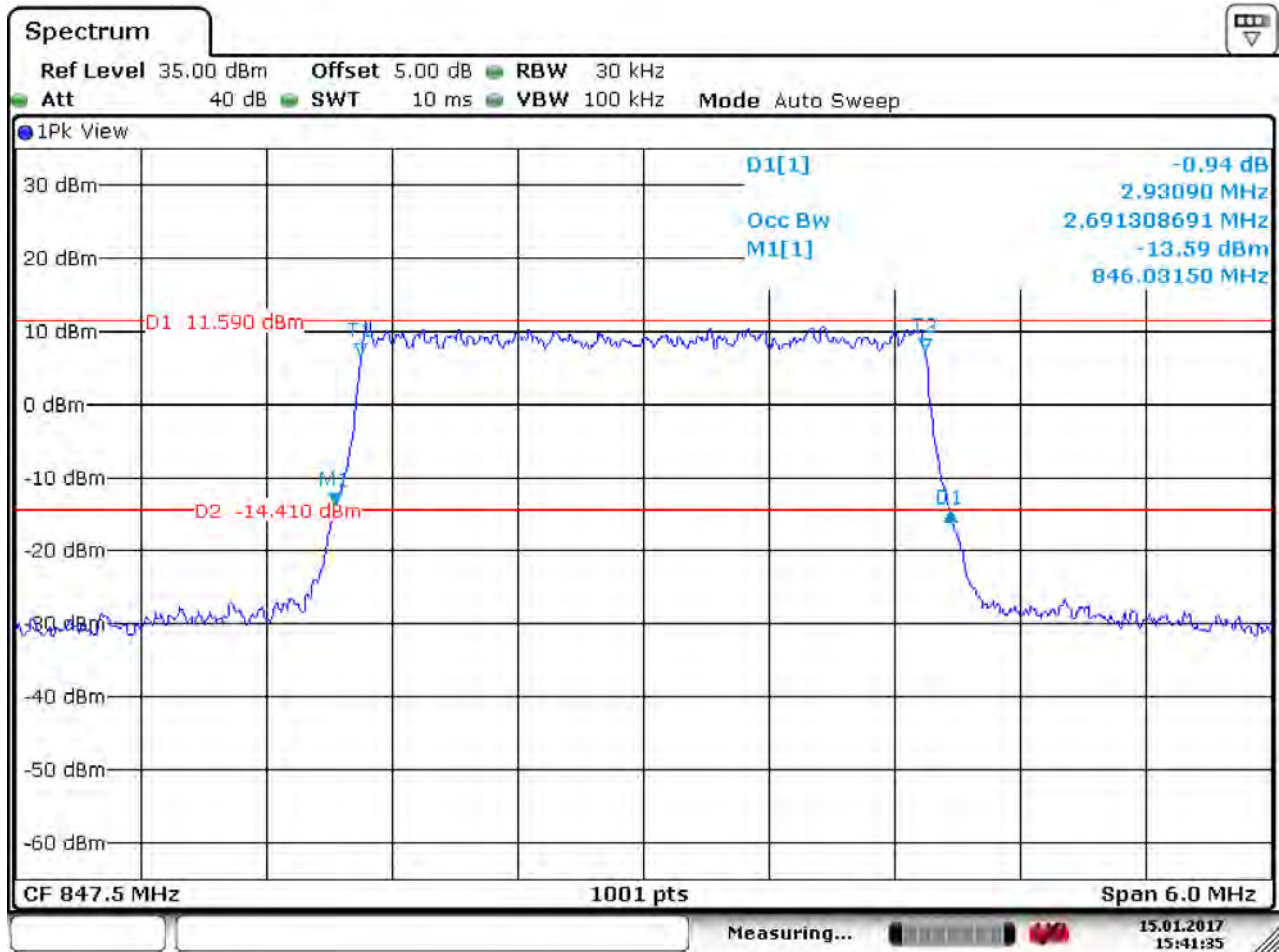


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4.1.1.6.3 Test Channel = HCH

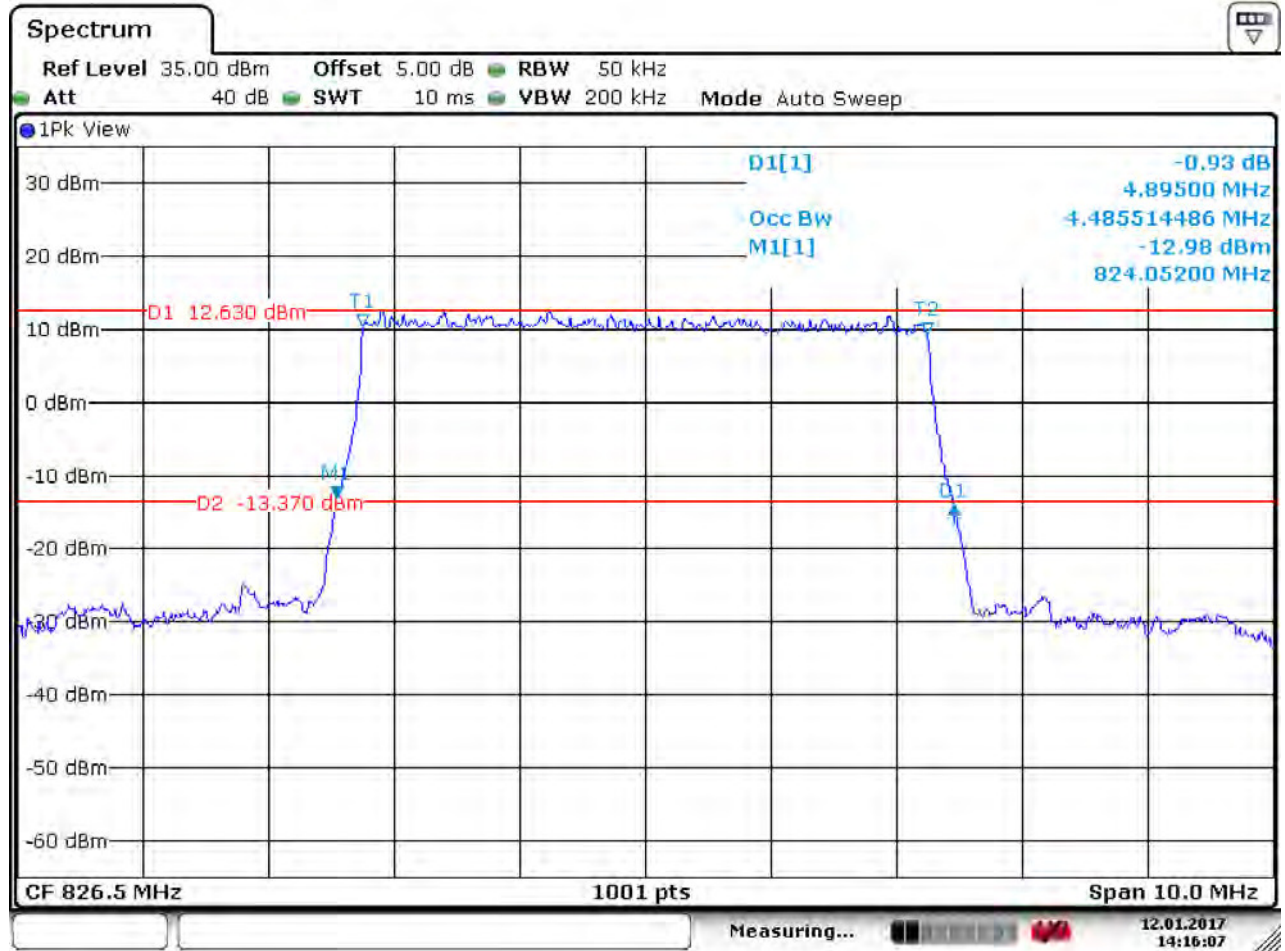


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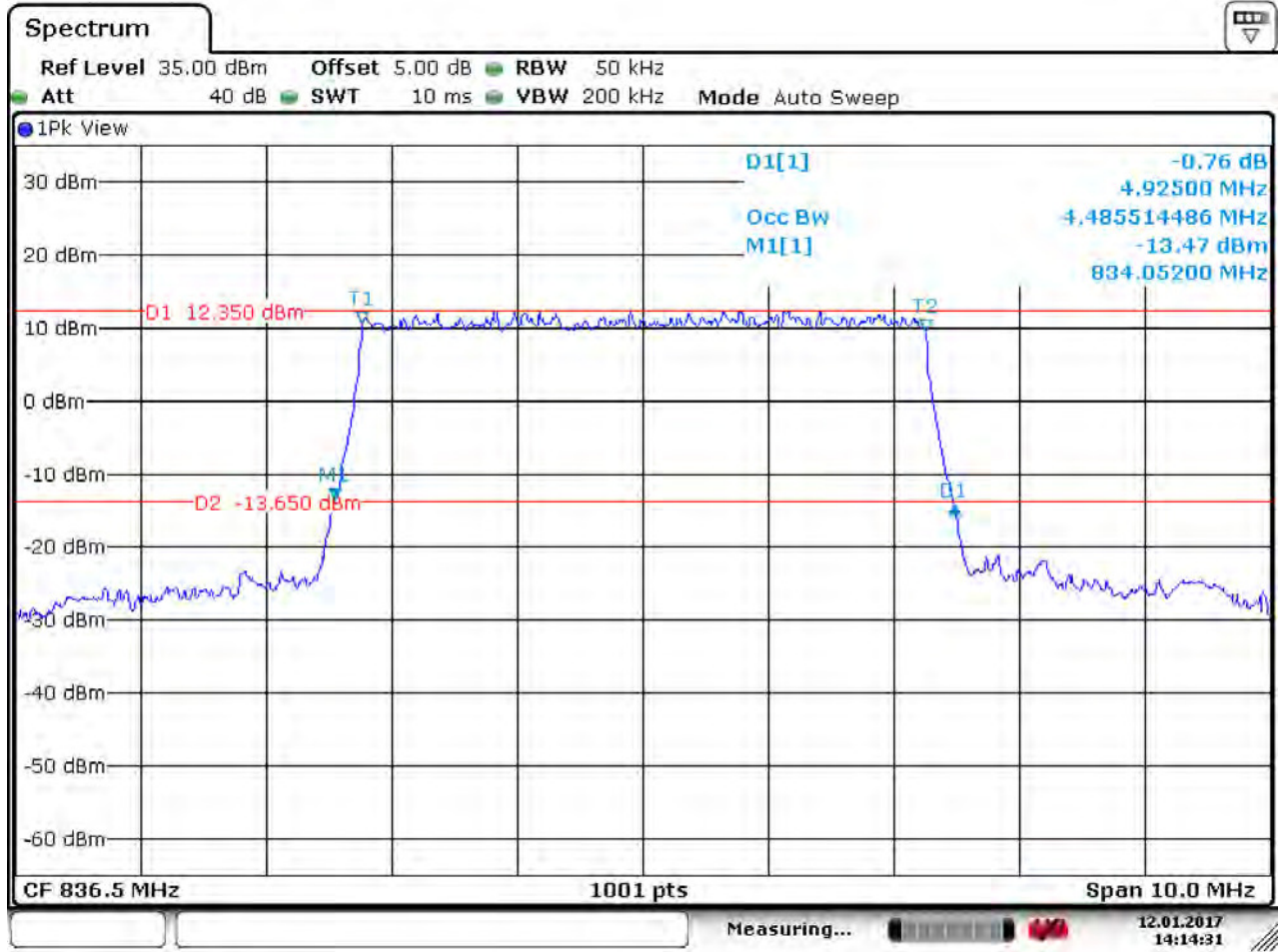
4.1.1.7 Test Mode = LTE/TM1 5MHz
4.1.1.7.1 Test Channel = LCH



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4.1.1.7.2 Test Channel = MCH

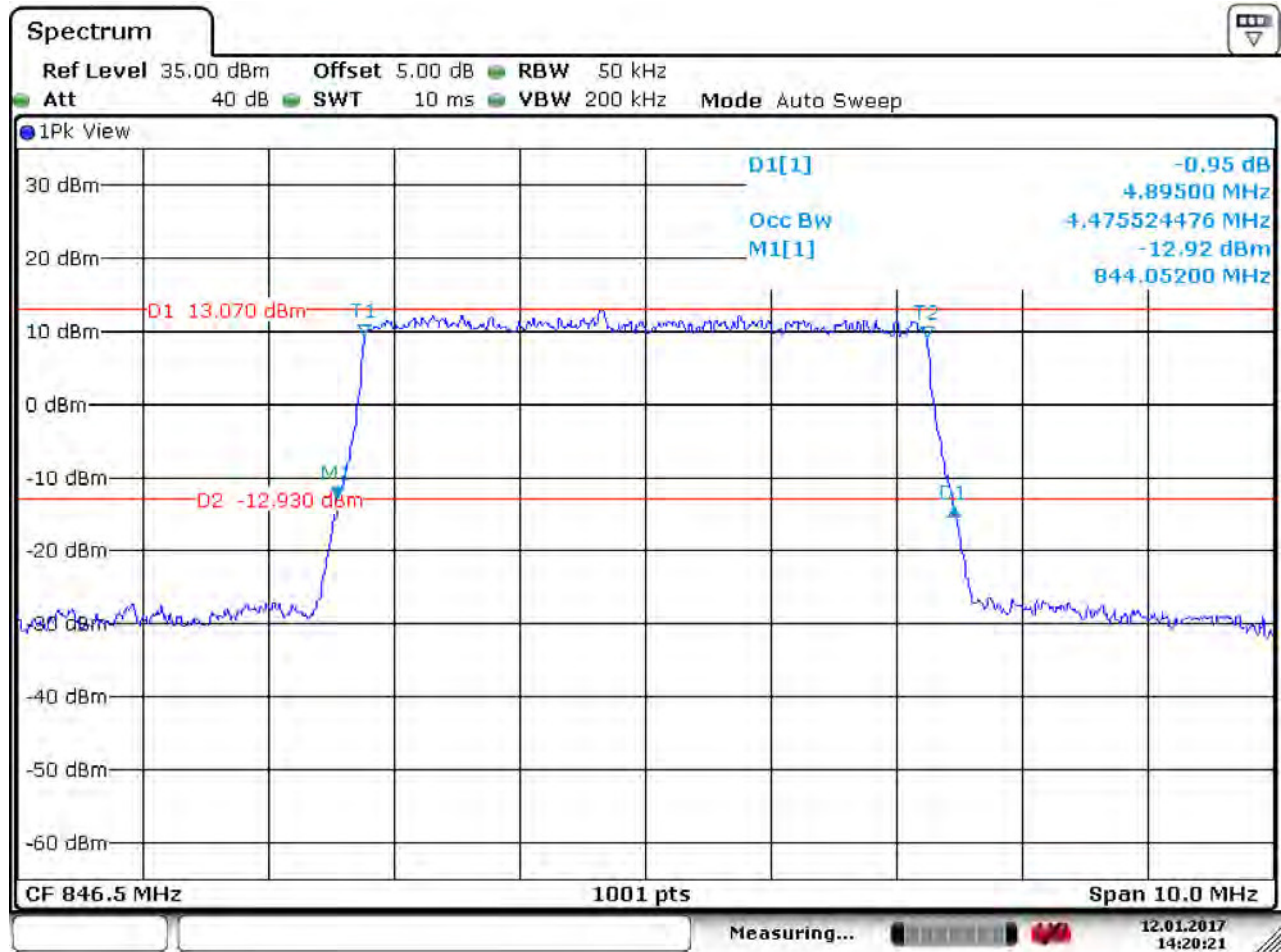


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4.1.1.7.3 Test Channel = HCH



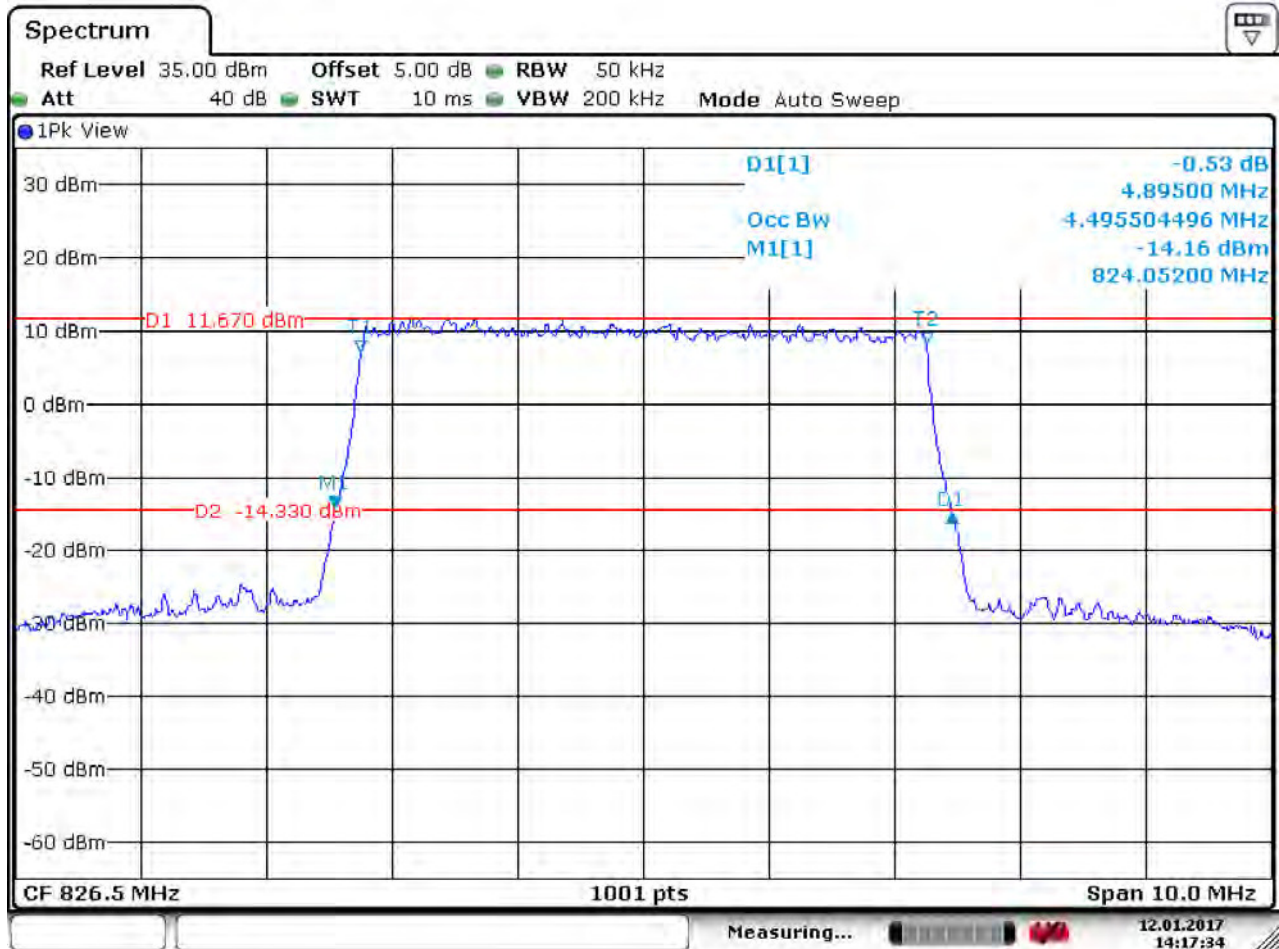
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4.1.1.8 Test Mode = LTE/TM2 5MHz

4.1.1.8.1 Test Channel = LCH

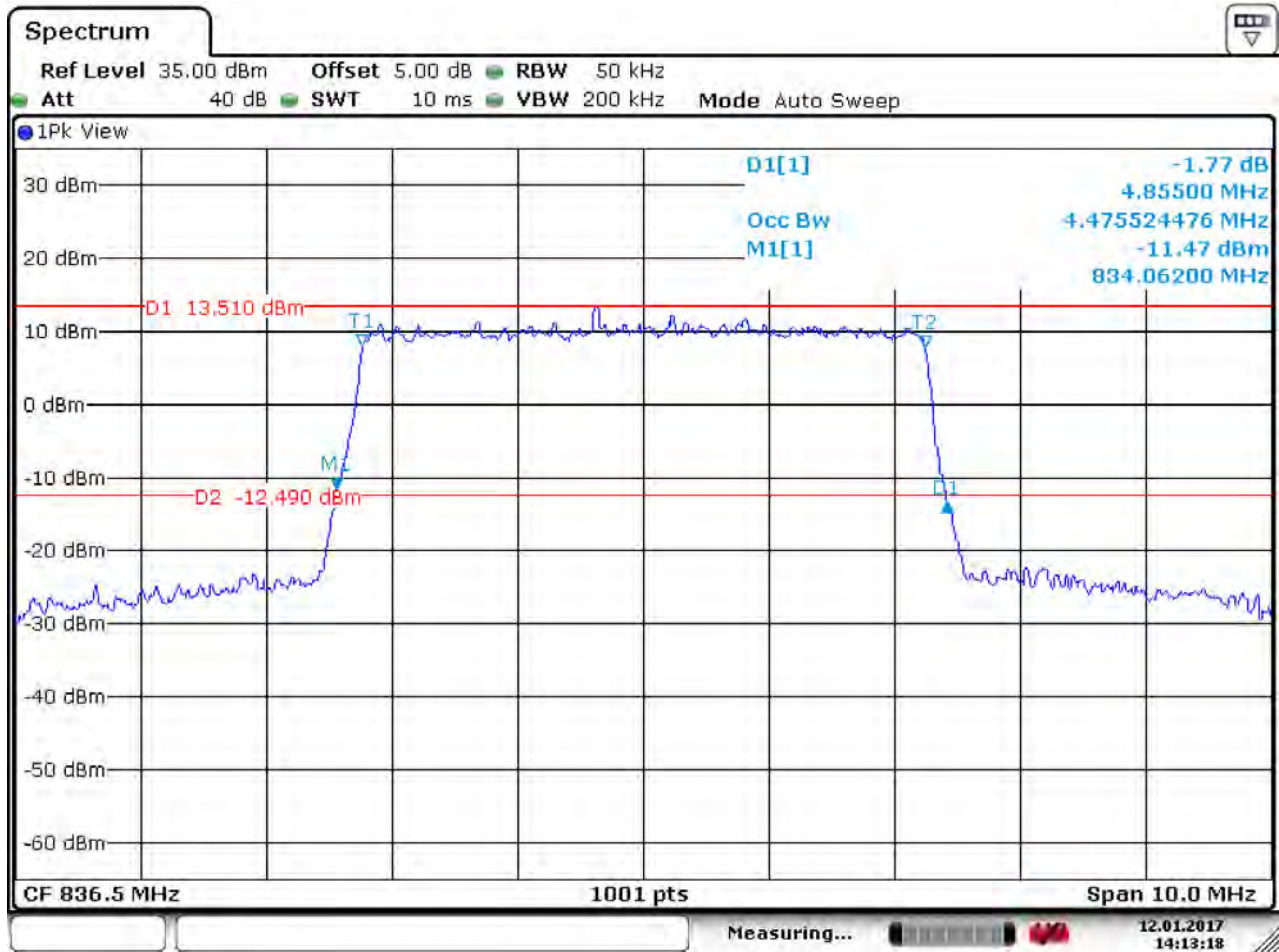


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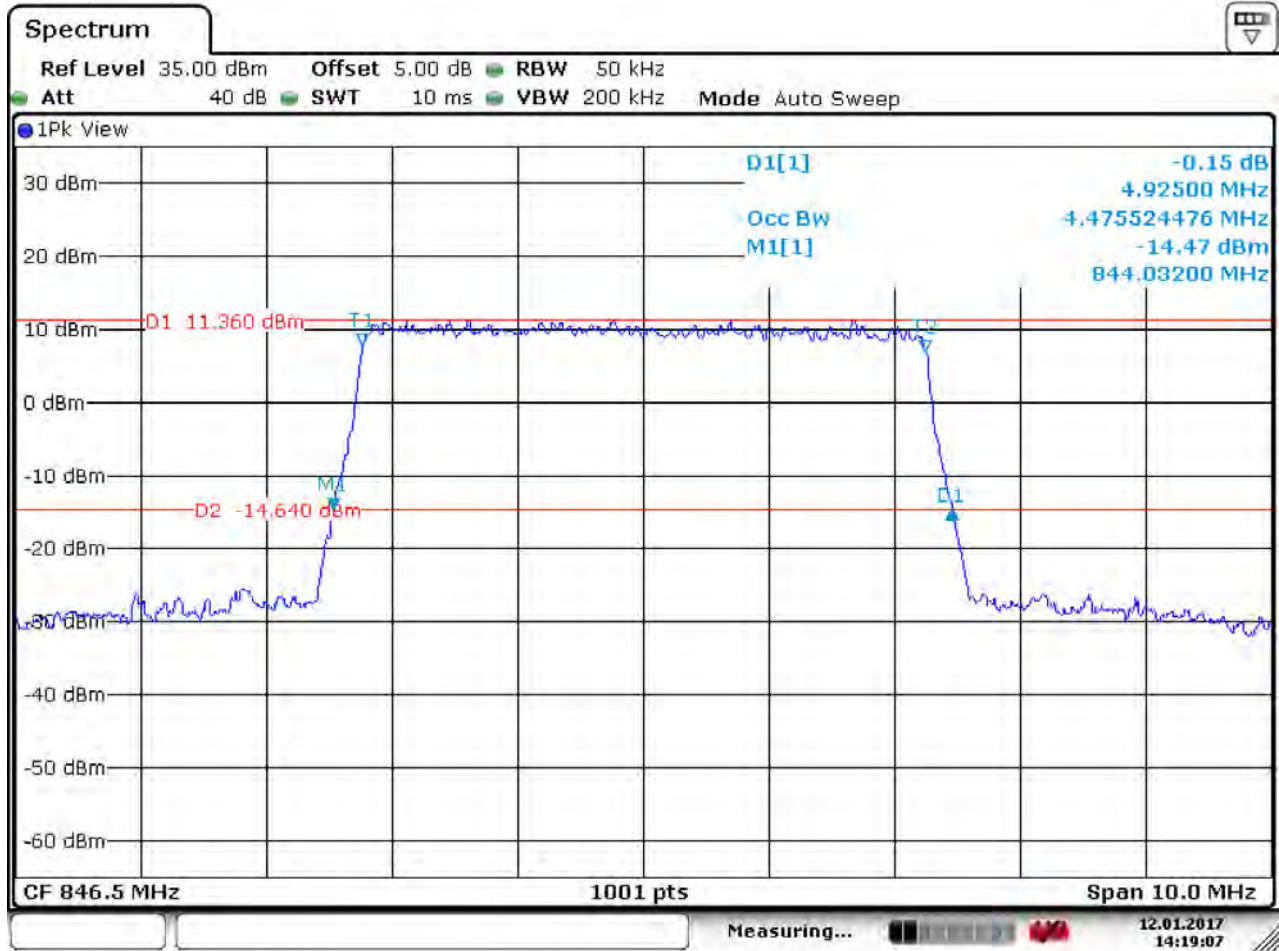
4.1.1.8.2 Test Channel = MCH



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4.1.1.8.3 Test Channel = HCH

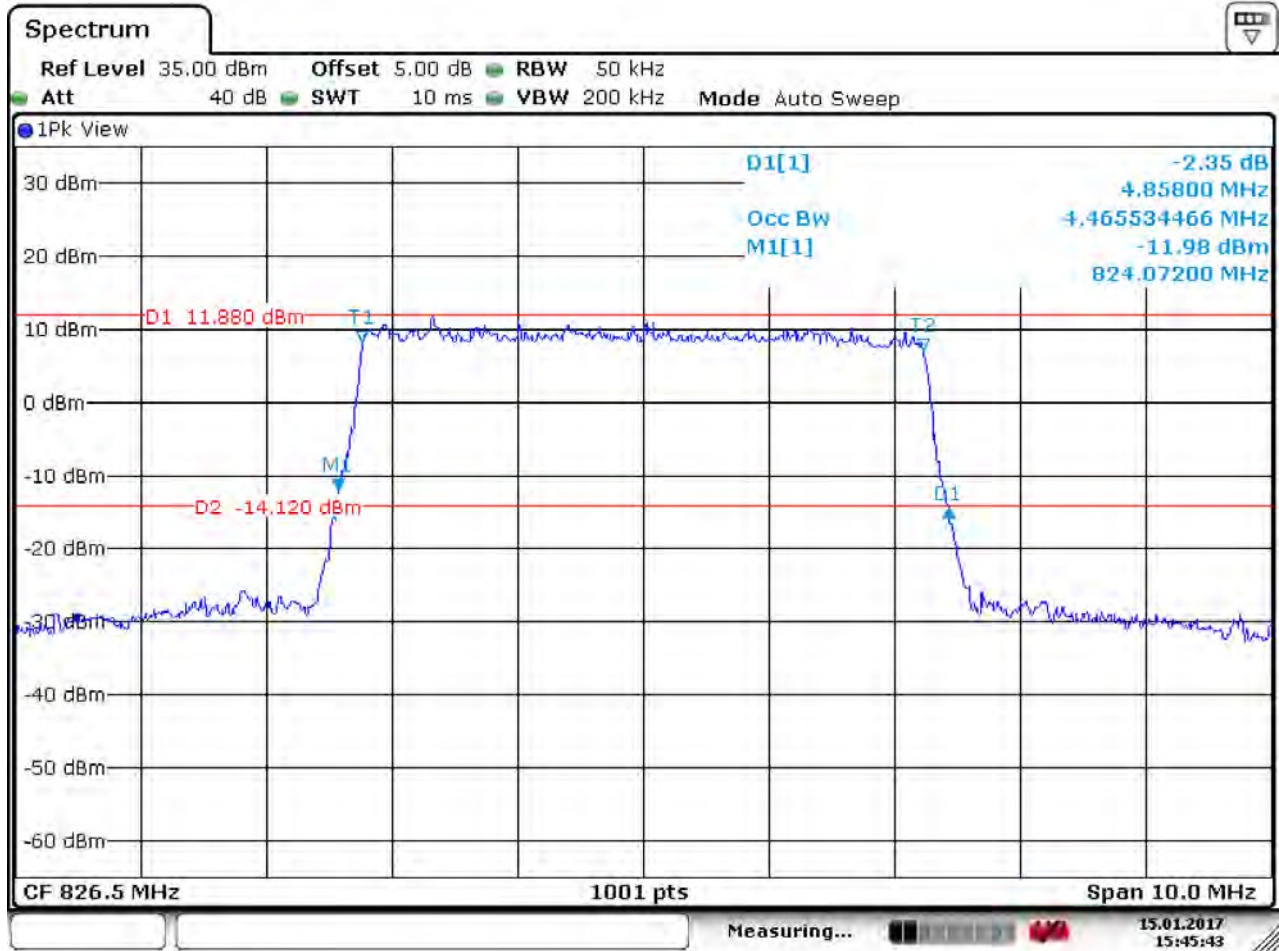


Date: 12.JAN.2017 14:19:07



4.1.1.9 Test Mode = LTE/TM3 5MHz

4.1.1.9.1 Test Channel = LCH

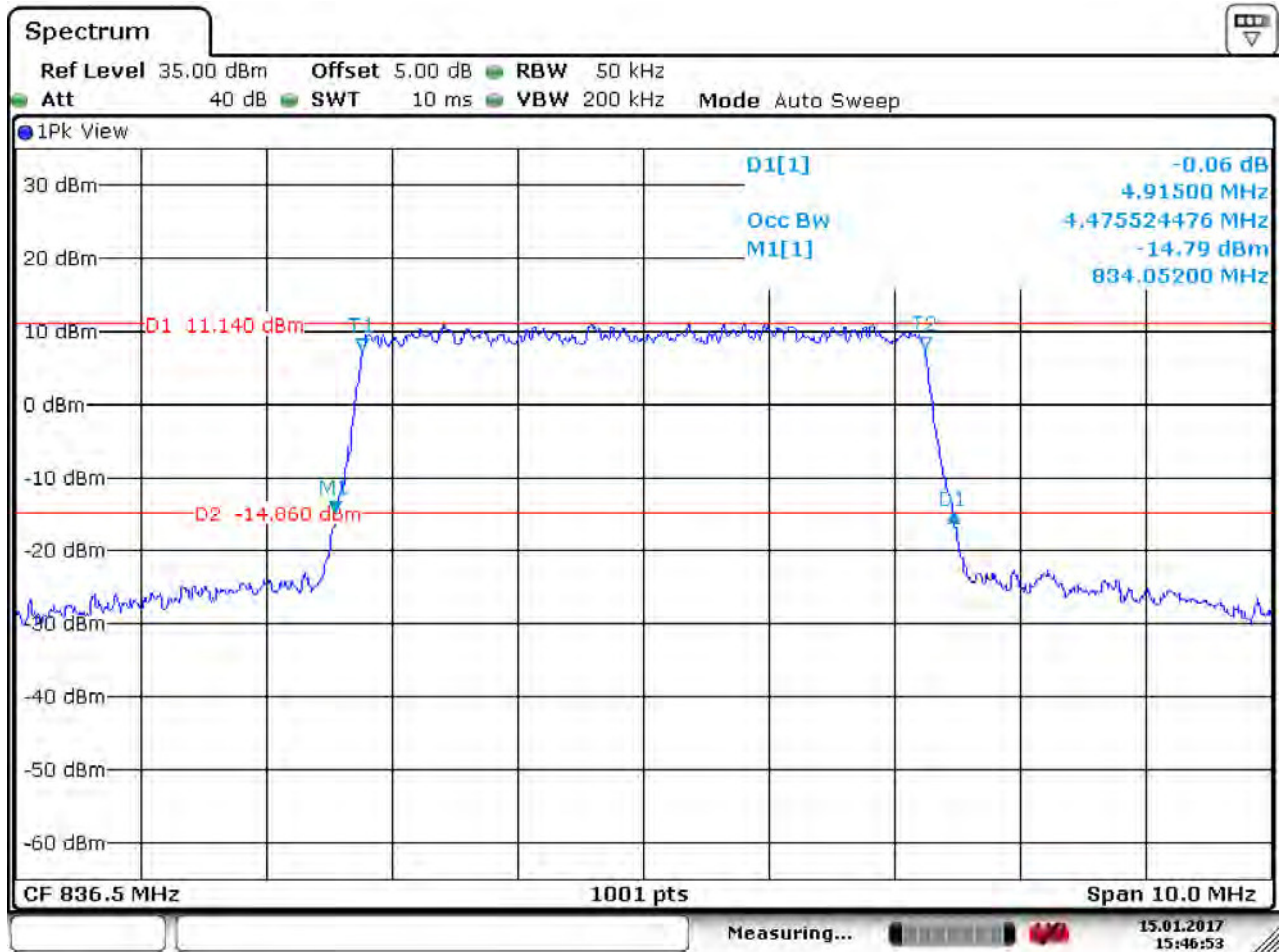


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4.1.1.9.2 Test Channel = MCH

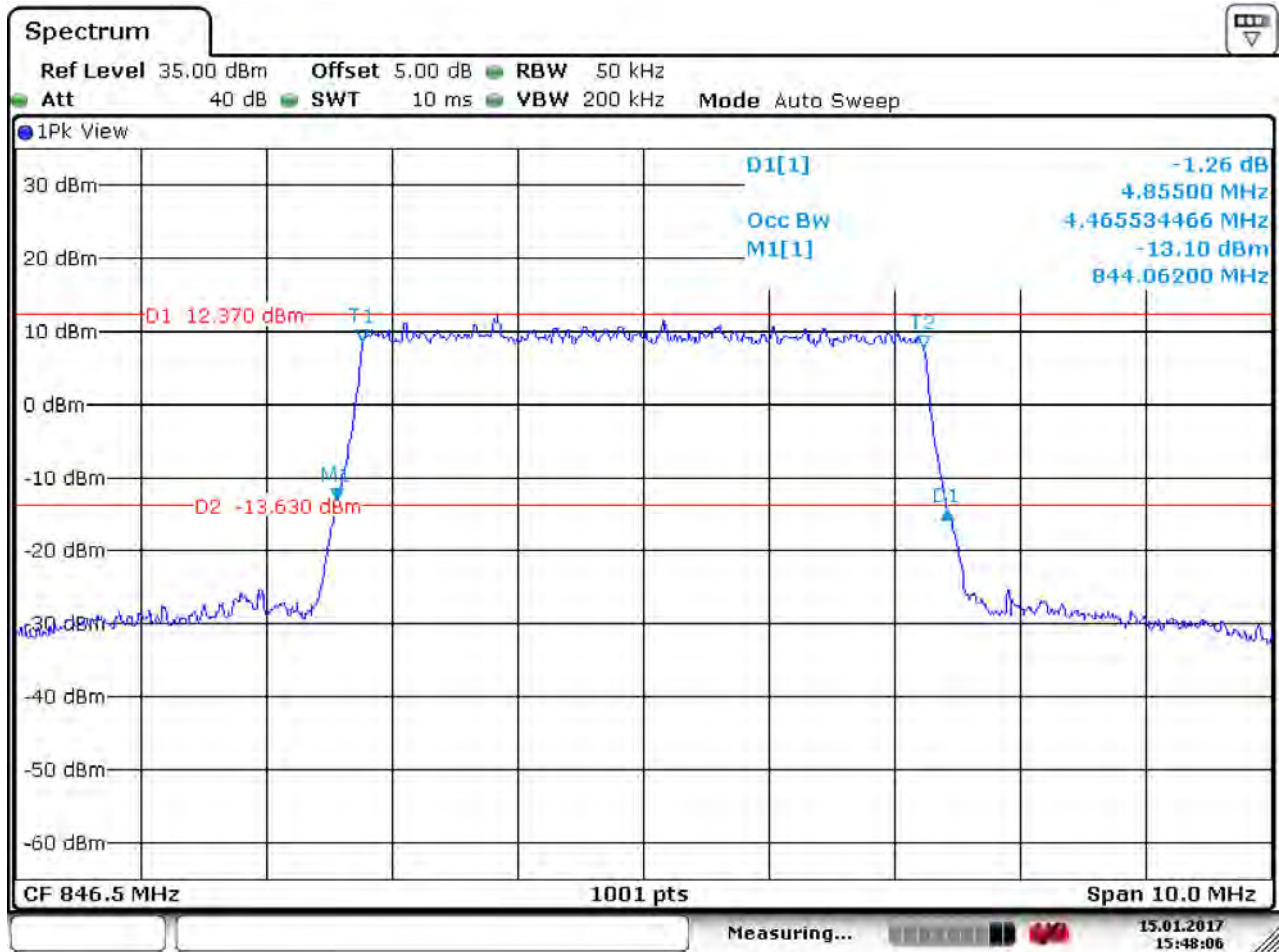


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4.1.1.9.3 Test Channel = HCH



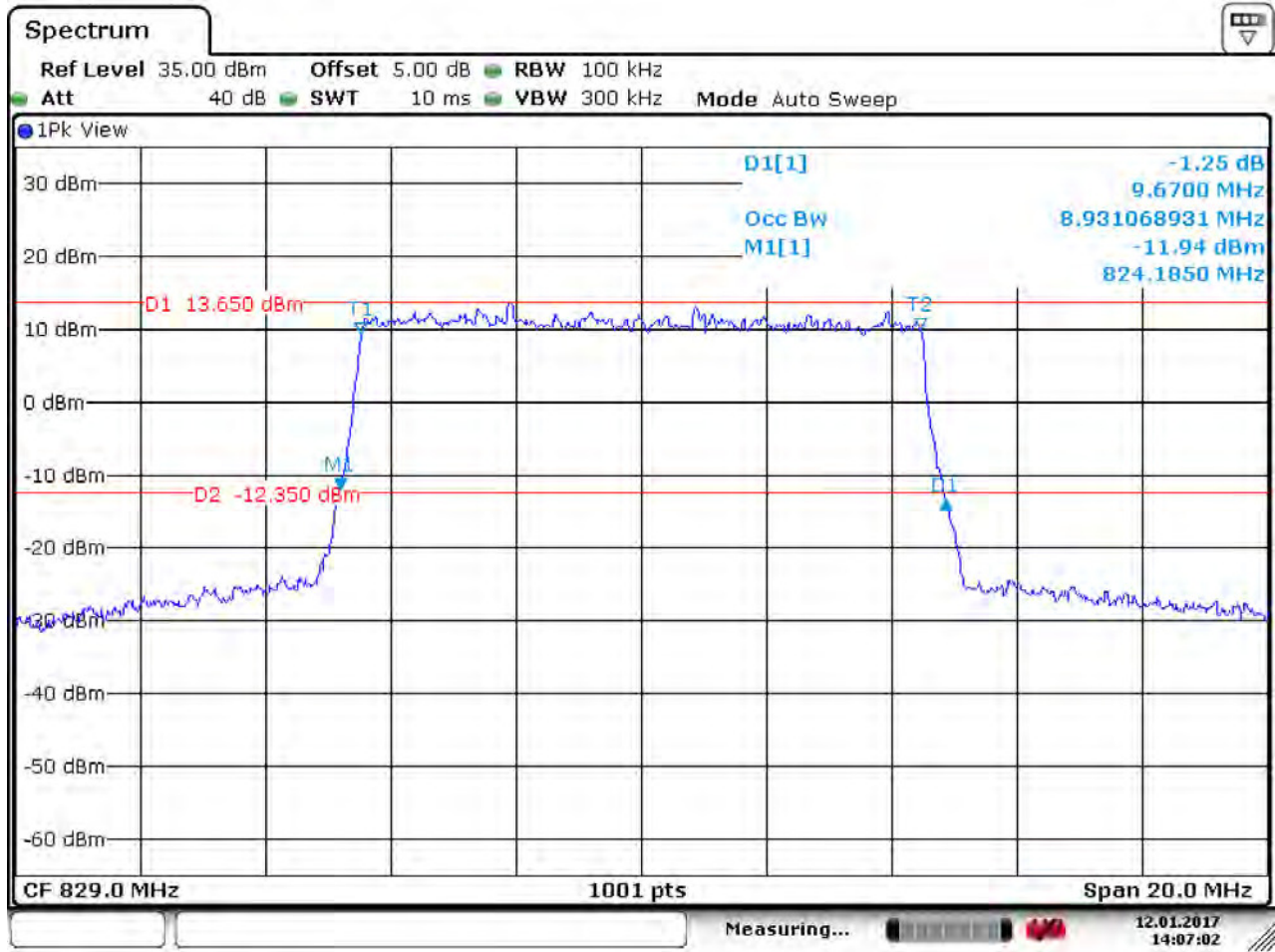
Date: 15.JAN.2017 15:48:07

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4.1.1.10 Test Mode = LTE/TM1 10MHz

4.1.1.10.1 Test Channel = LCH

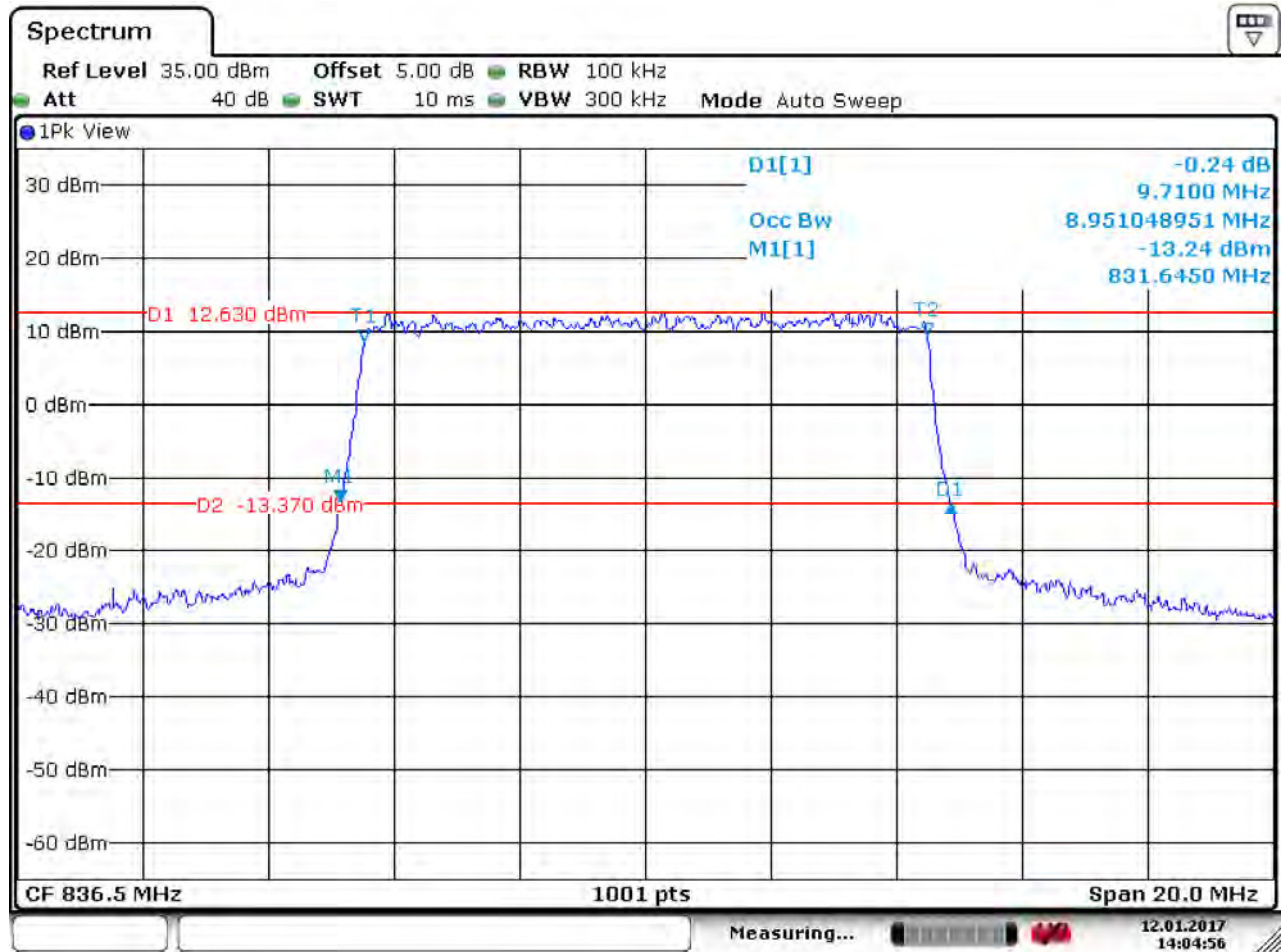


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4.1.1.10.2 Test Channel = MCH

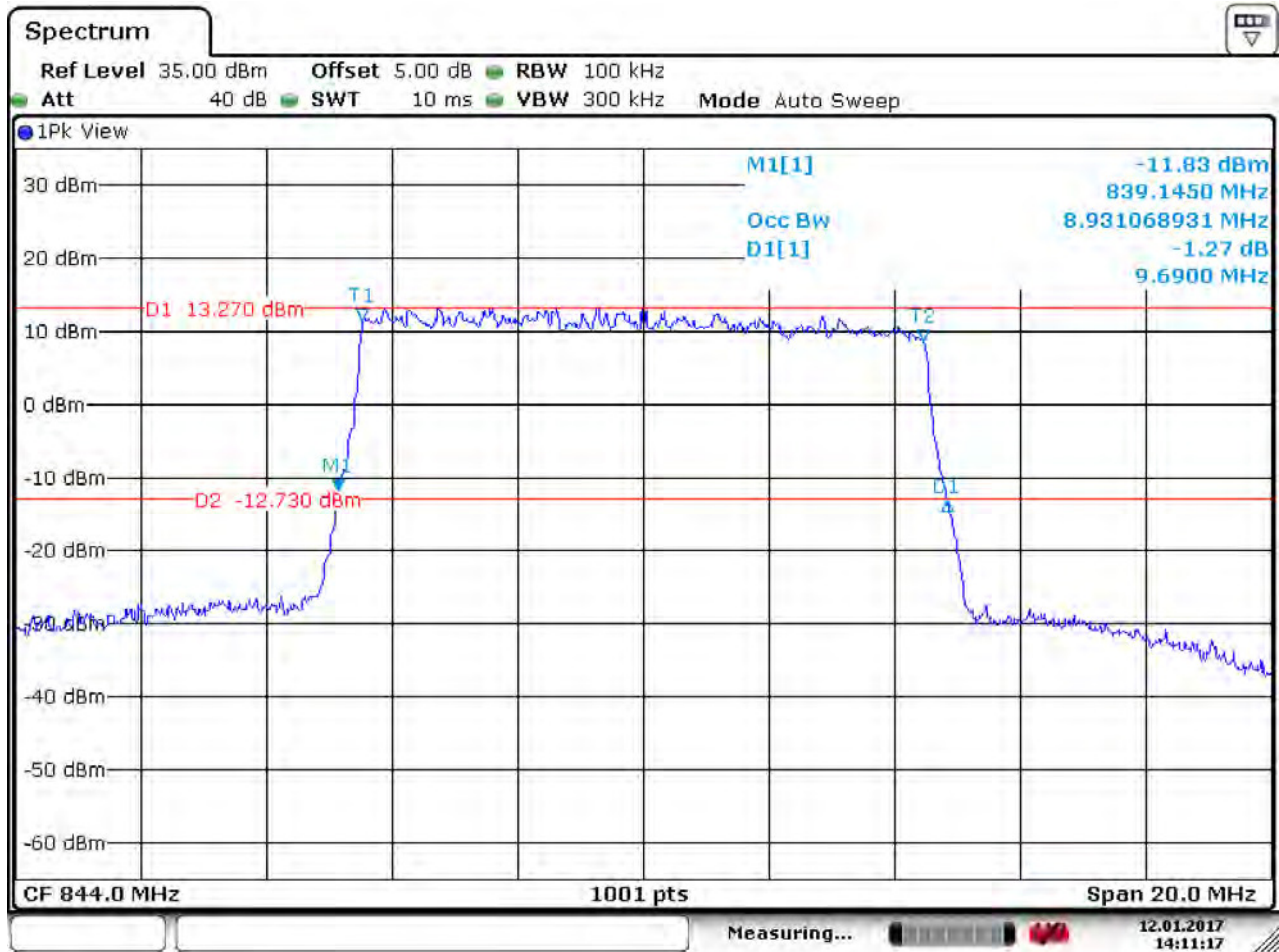


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4.1.1.10.3 Test Channel = HCH



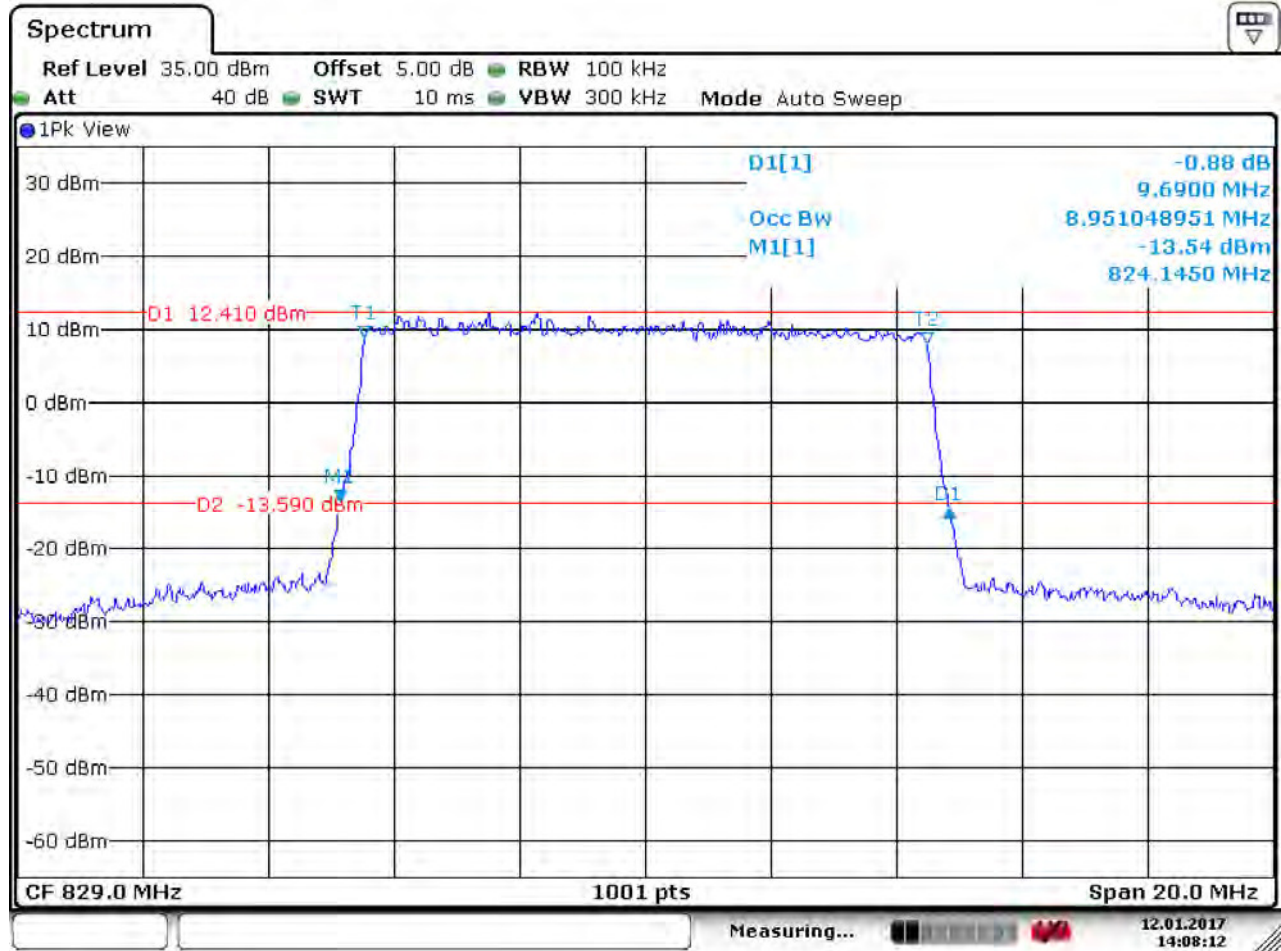
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4.1.1.11 Test Mode = LTE/TM2 10MHz

4.1.1.11.1 Test Channel = LCH

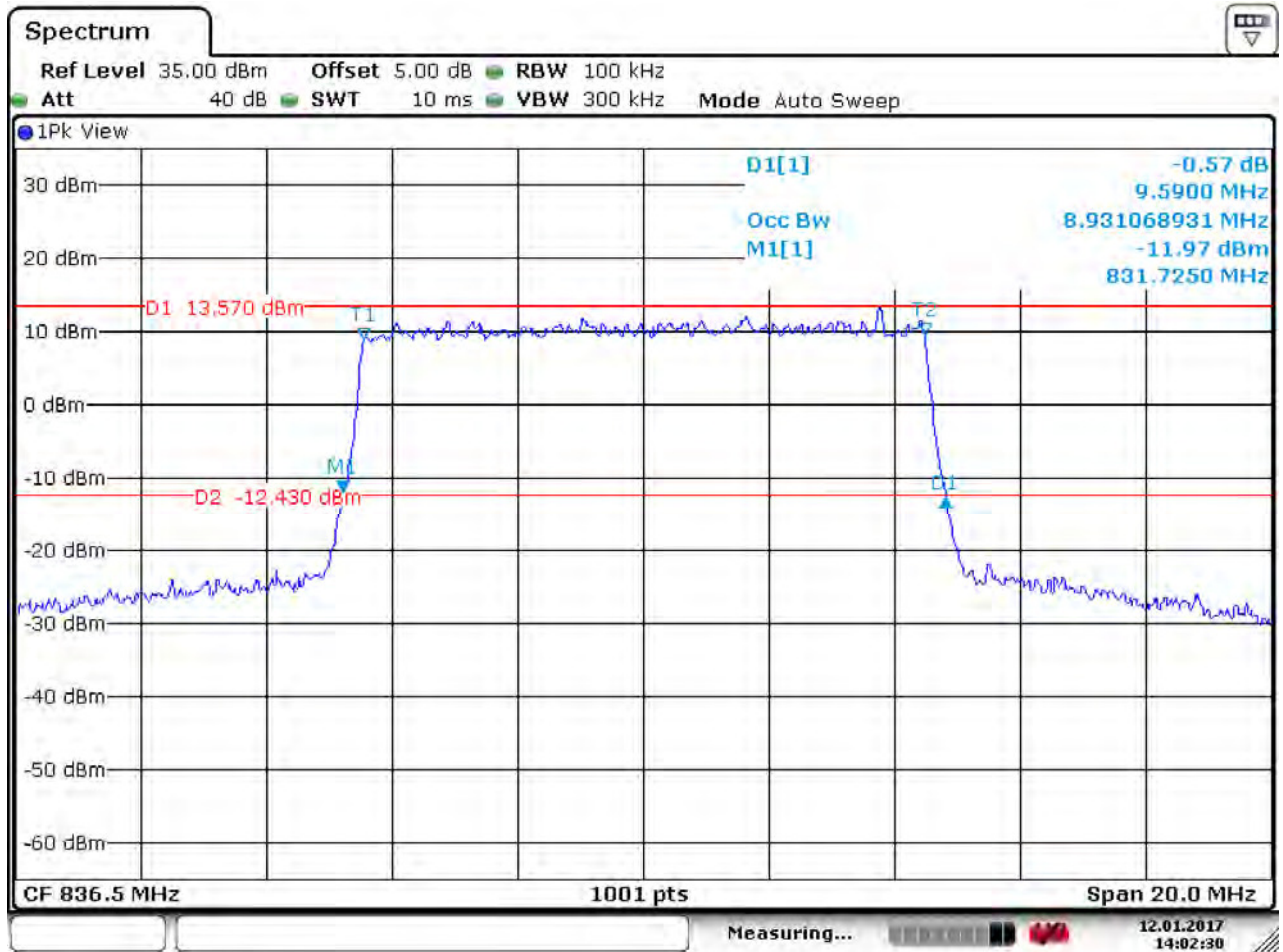


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4.1.1.11.2 Test Channel = MCH

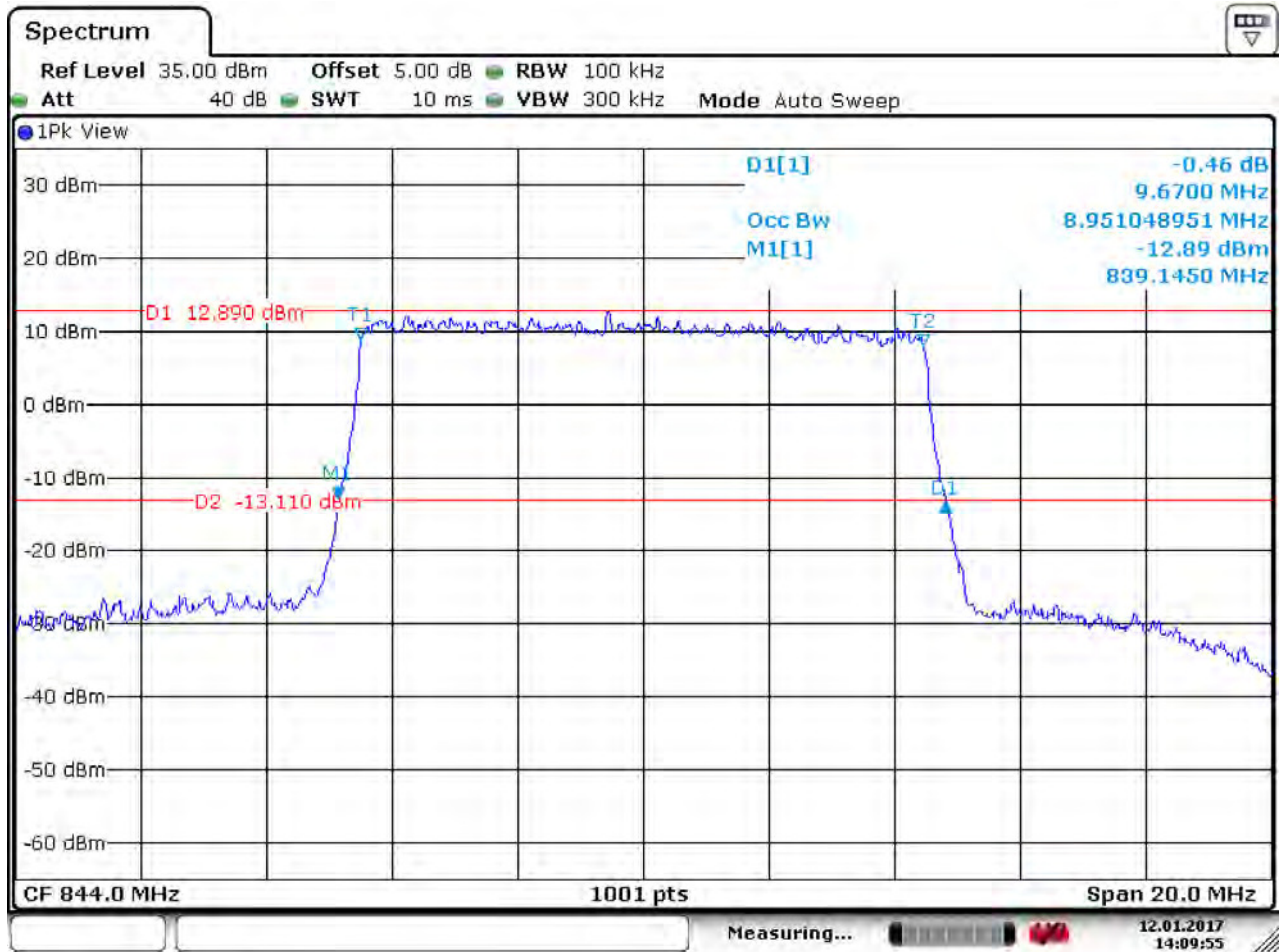


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4.1.1.11.3 Test Channel = HCH



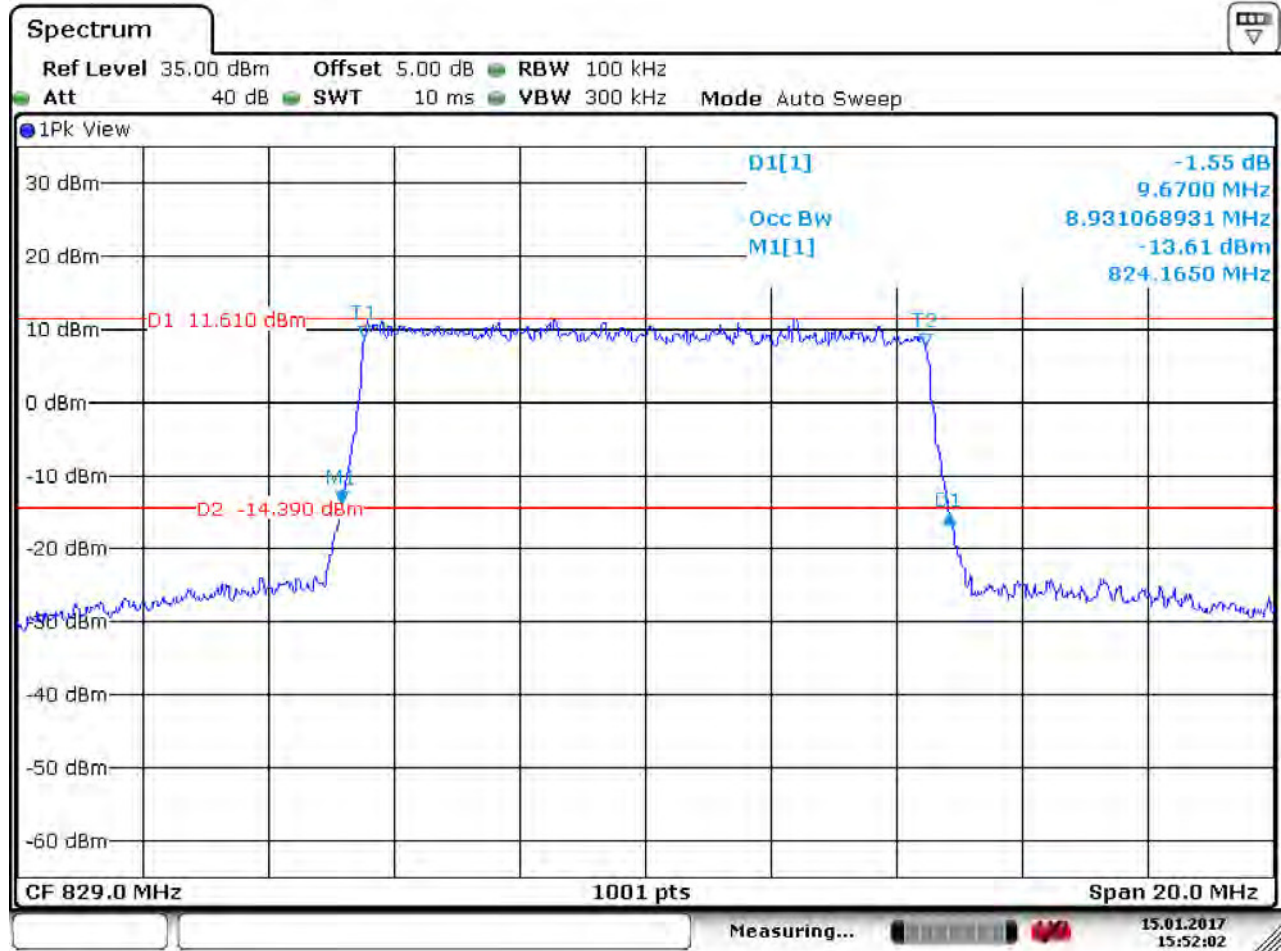
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4.1.1.12 Test Mode = LTE/TM3 10MHz

4.1.1.12.1 Test Channel = LCH

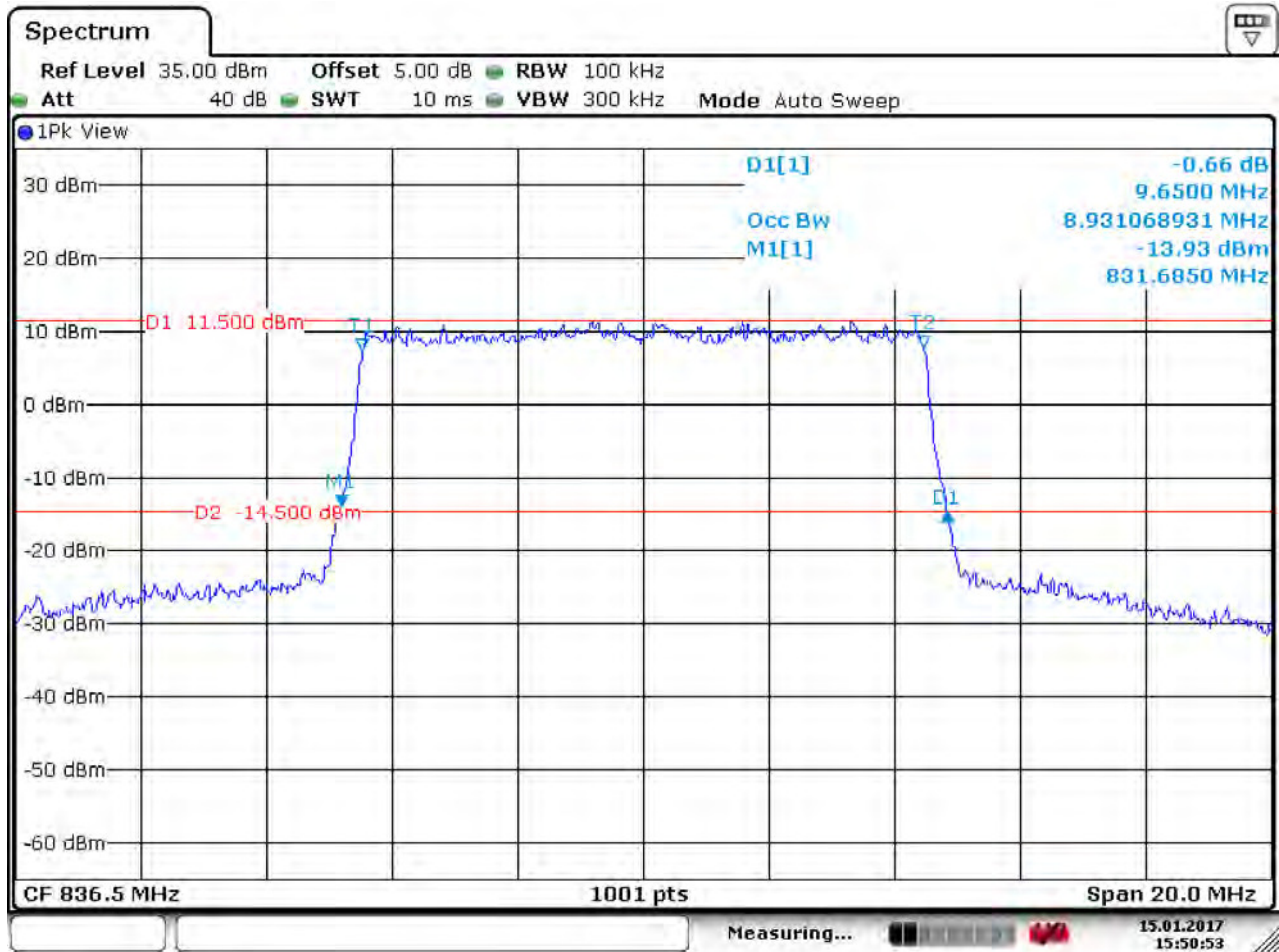


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4.1.1.12.2 Test Channel = MCH

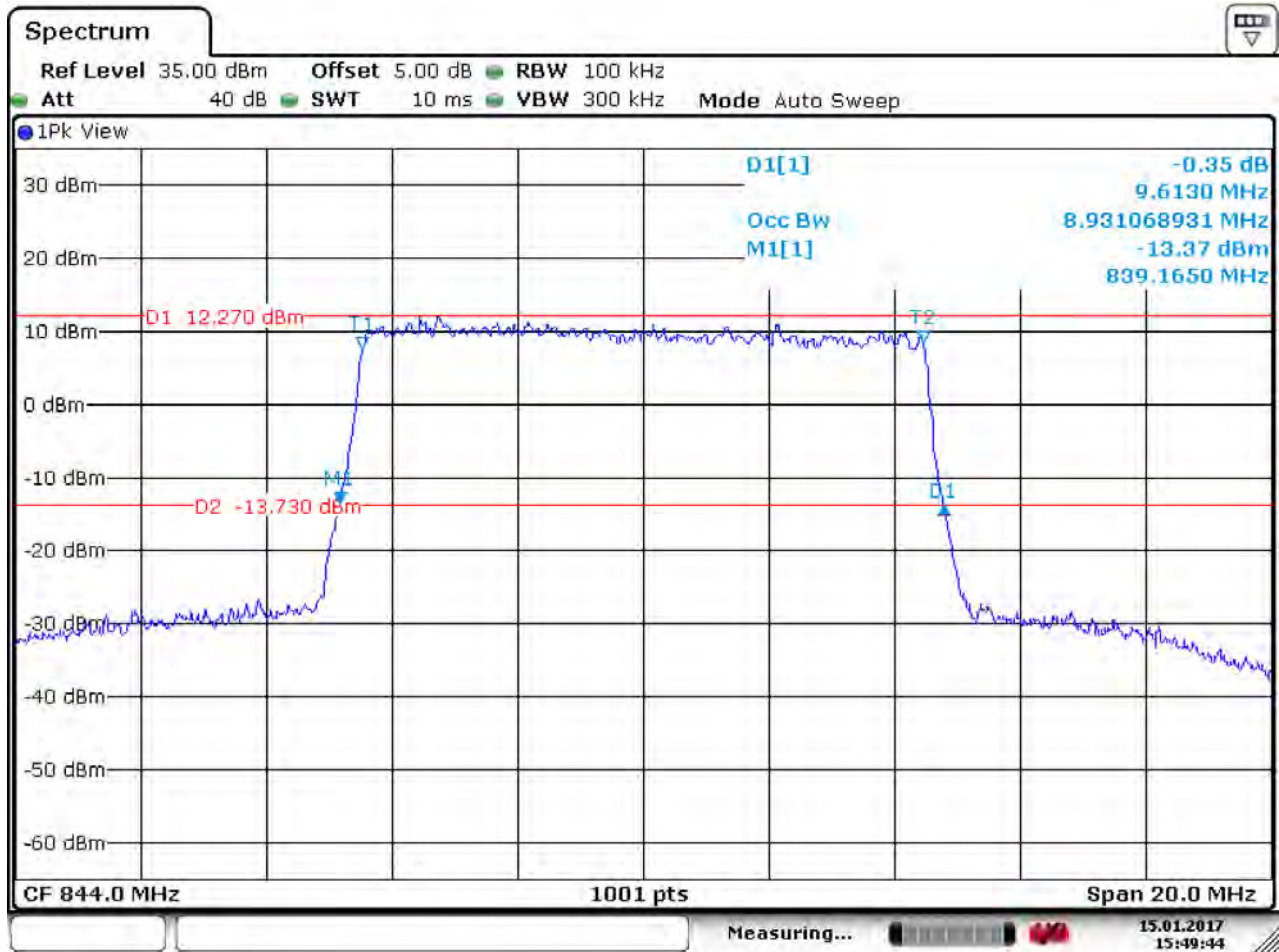


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4.1.1.12.3 Test Channel = HCH



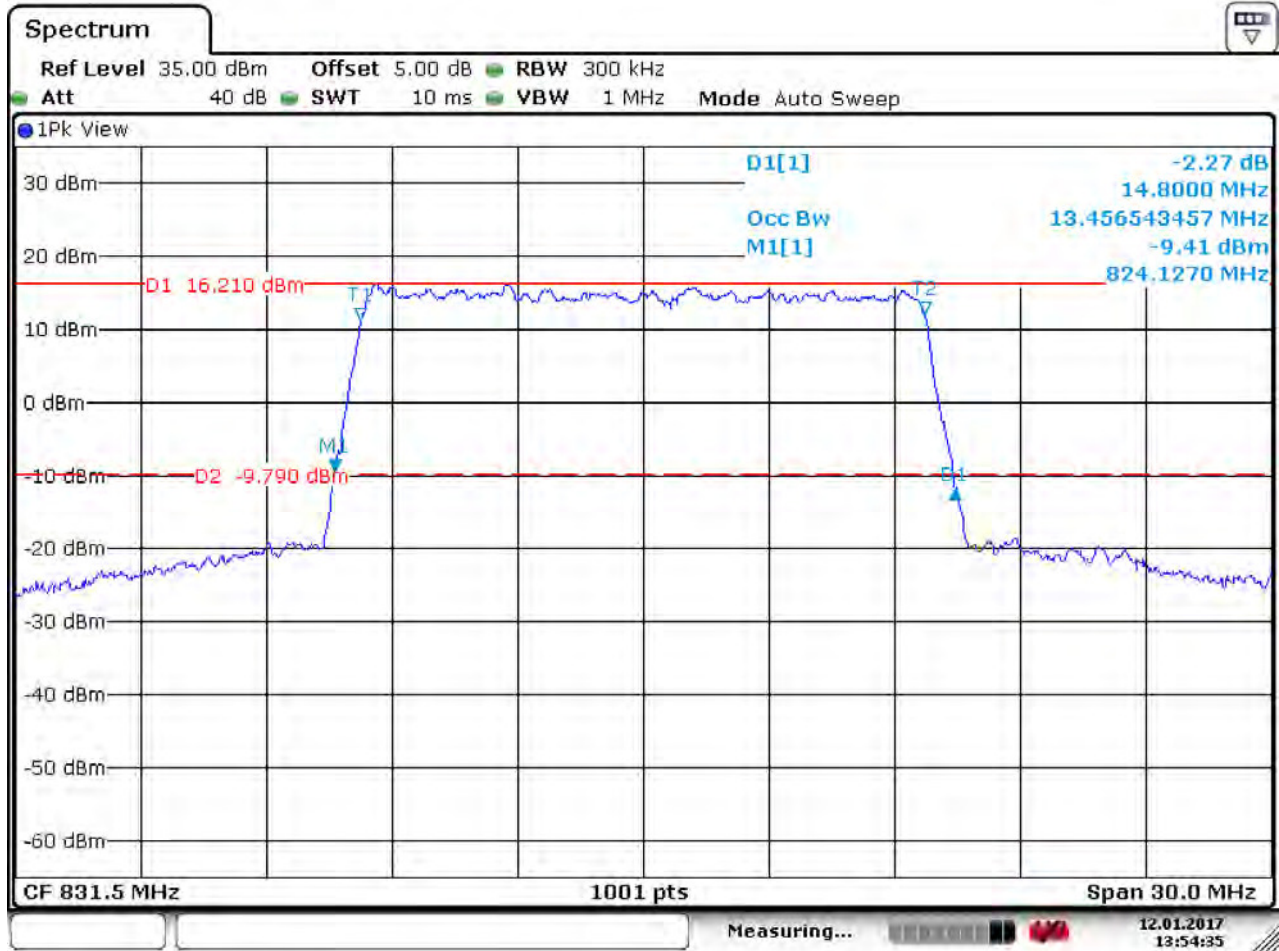
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4.1.1.13 Test Mode = LTE/TM1 15MHz

4.1.1.13.1 Test Channel = LCH

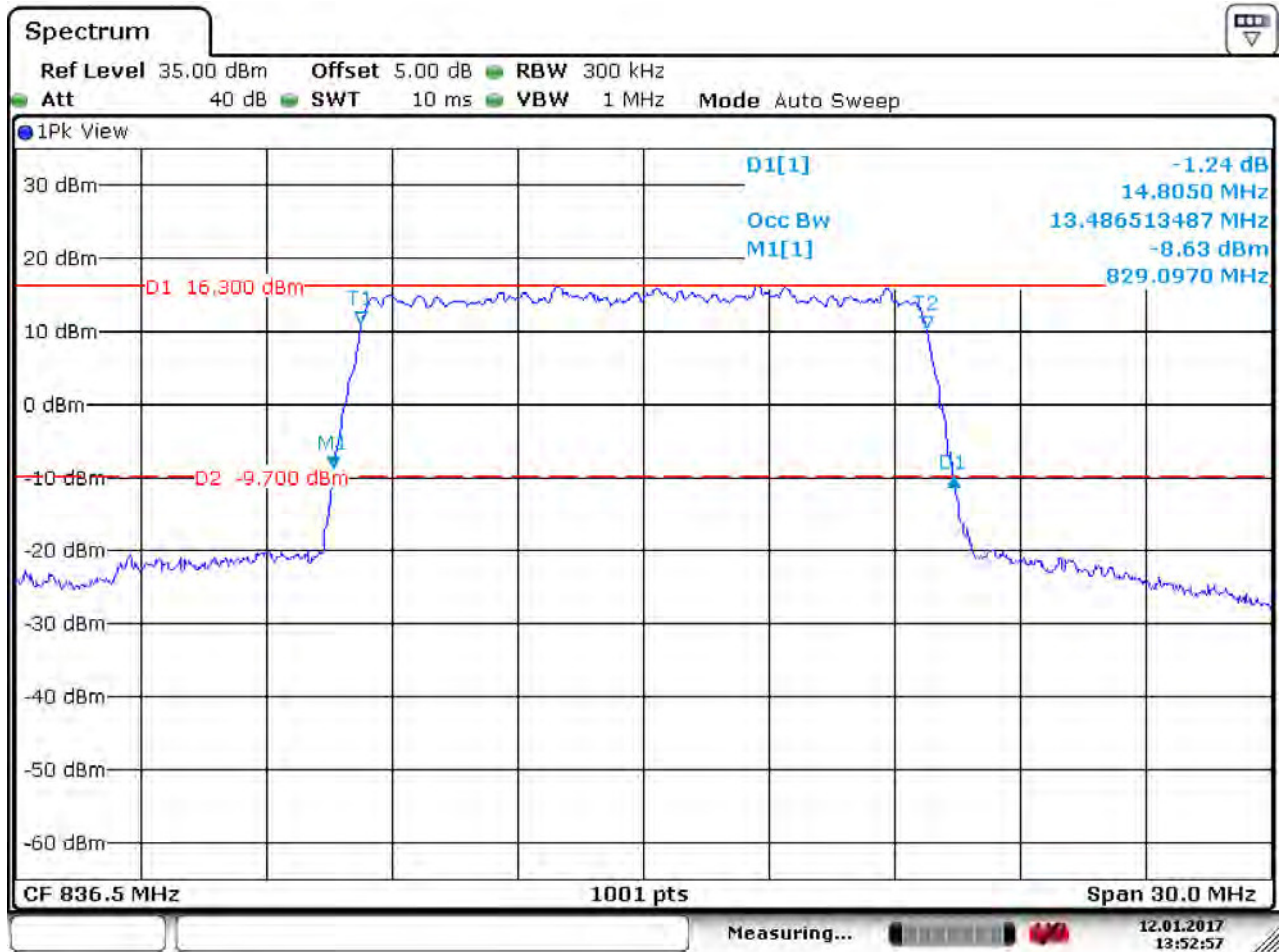


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4.1.1.13.2 Test Channel = MCH

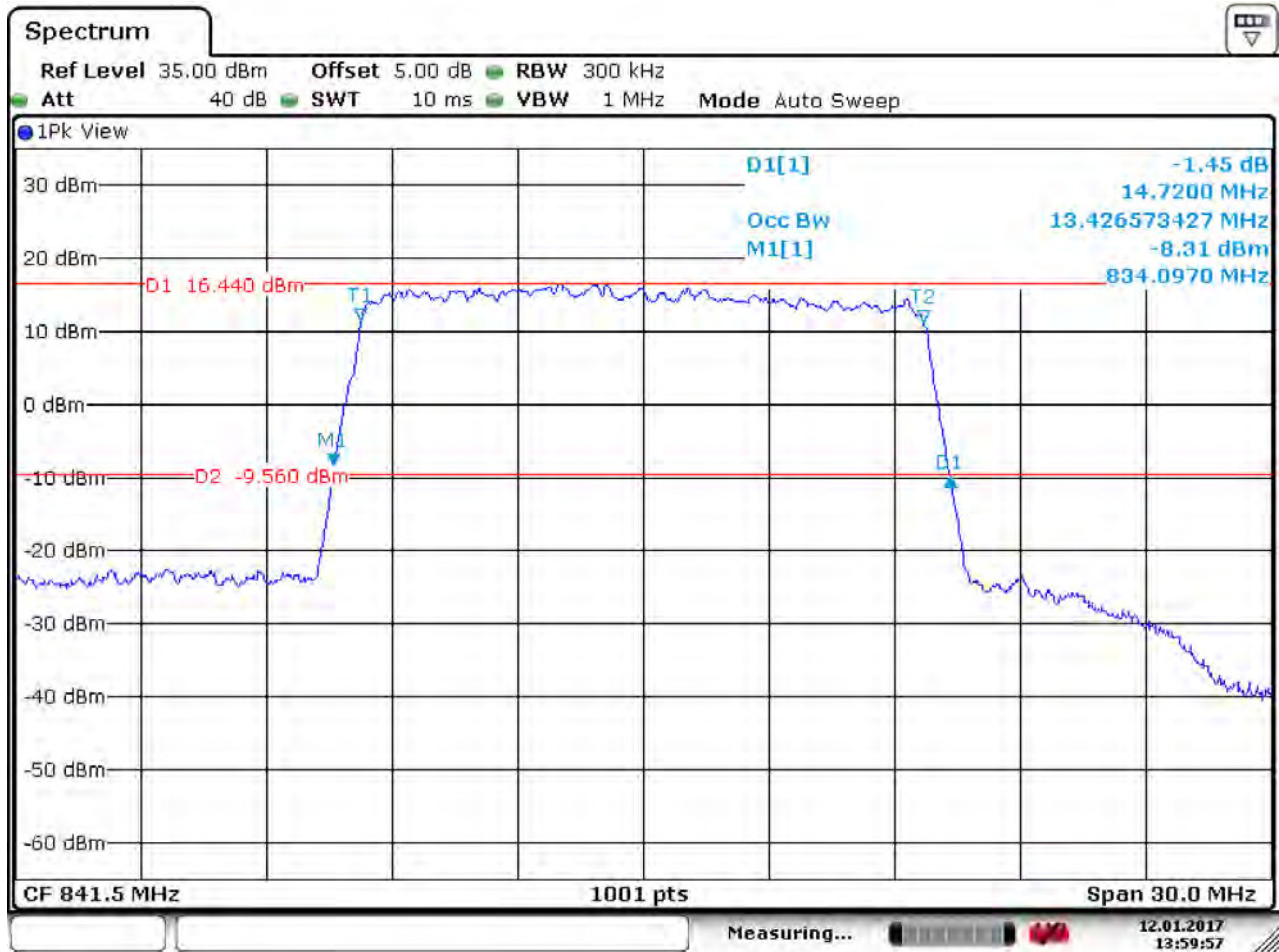


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4.1.1.13.3 Test Channel = HCH

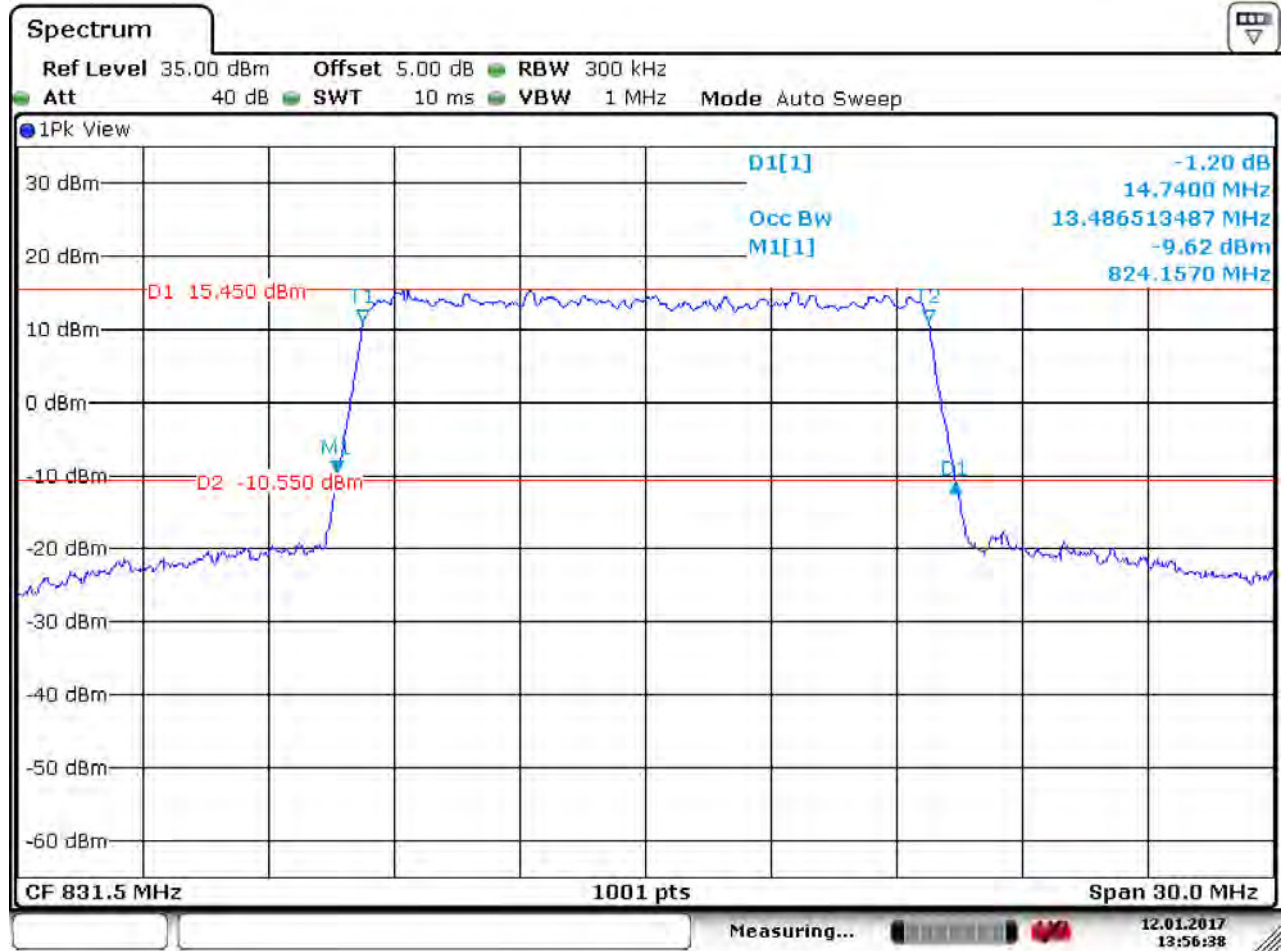


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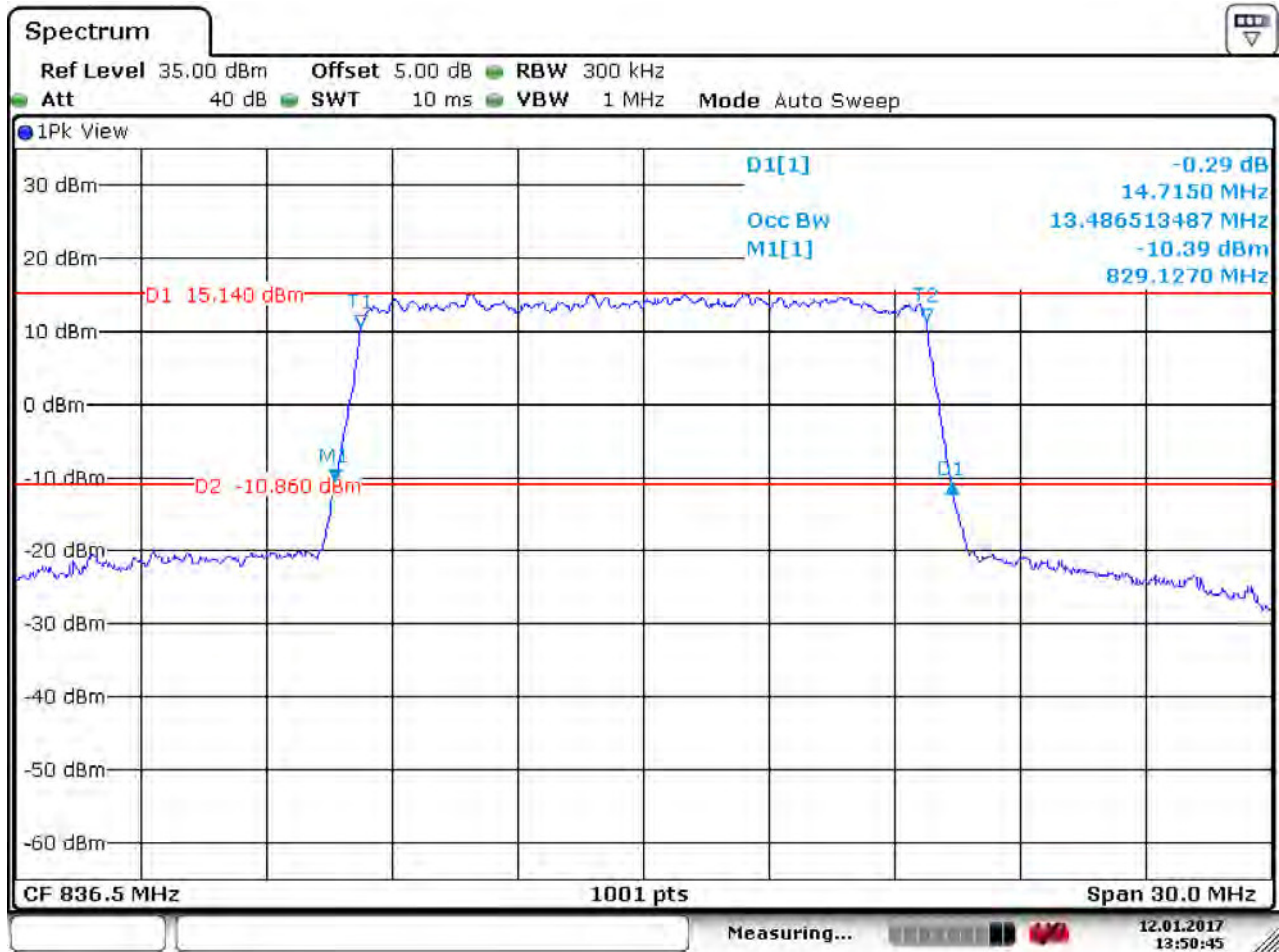
4.1.1.14 Test Mode = LTE/TM2 15MHz

4.1.1.14.1 Test Channel = LCH



Date: 12.JAN.2017 13:56:39

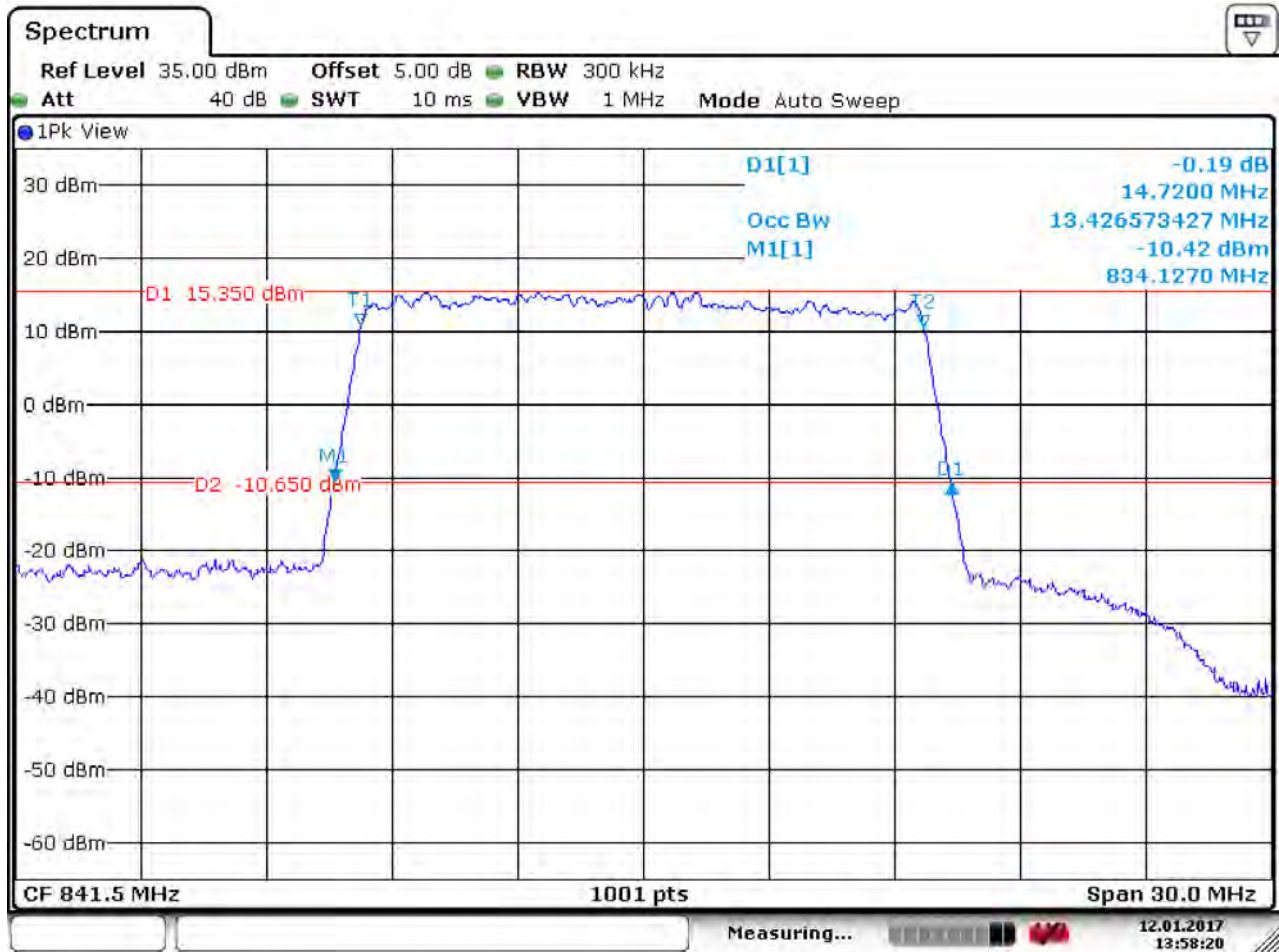
4.1.1.14.2 Test Channel = MCH



Date: 12.JAN.2017 13:50:46



4.1.1.14.3 Test Channel = HCH



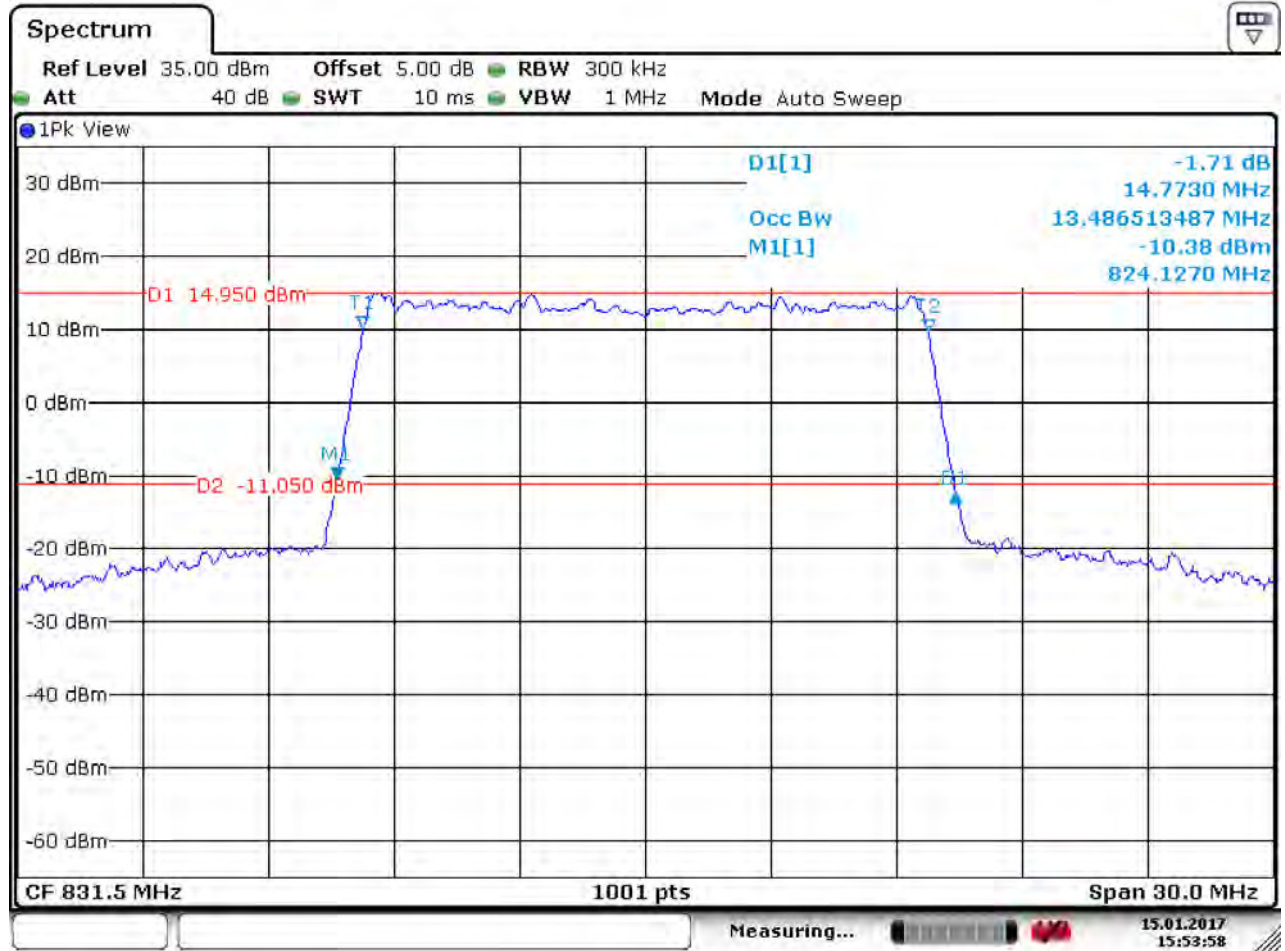
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4.1.1.15 Test Mode = LTE/TM3 15MHz

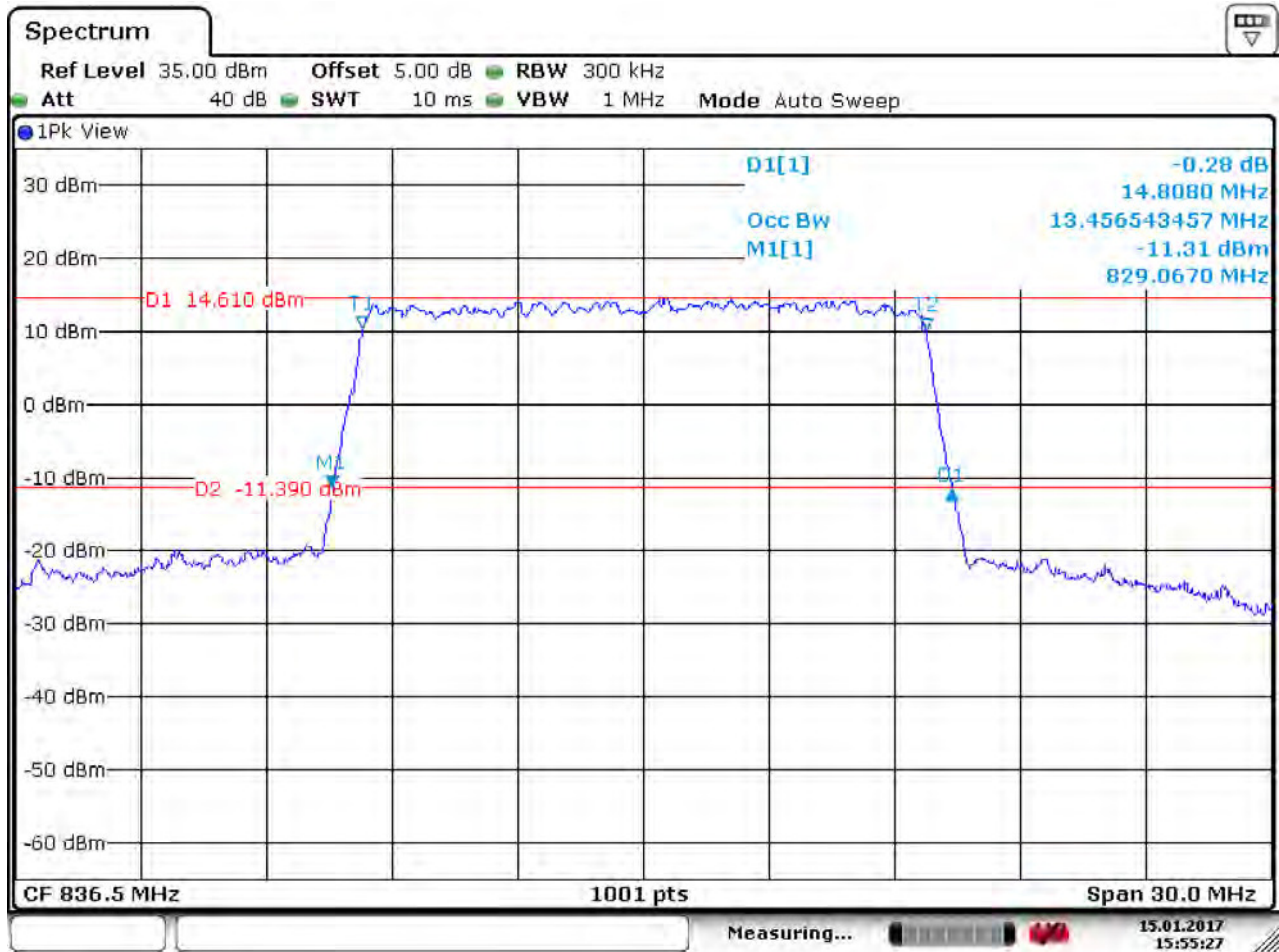
4.1.1.15.1 Test Channel = LCH



Date: 15.JAN.2017 15:53:59



4.1.1.15.2 Test Channel = MCH

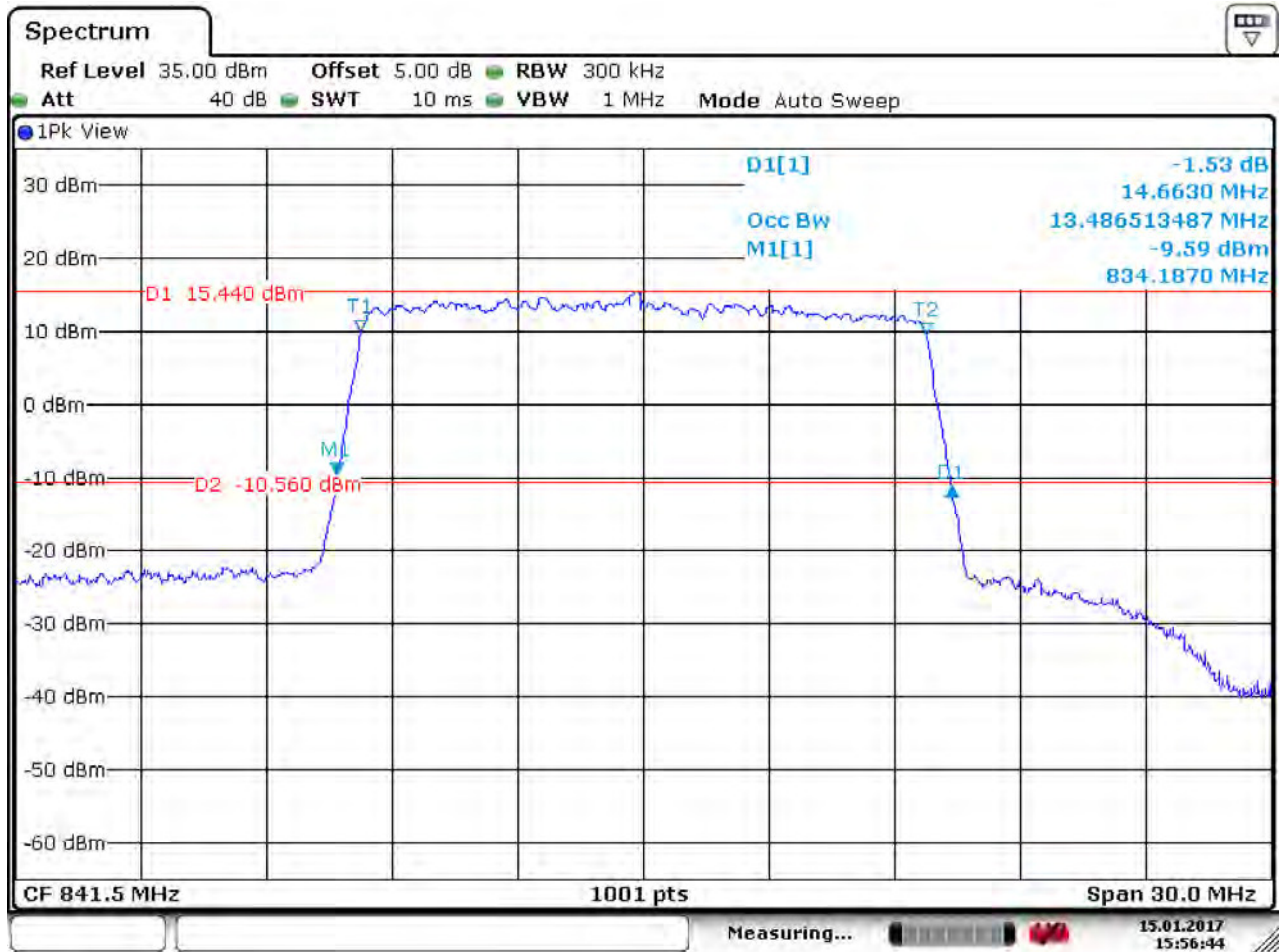


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4.1.1.15.3 Test Channel = HCH



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5 Band Edges Compliance

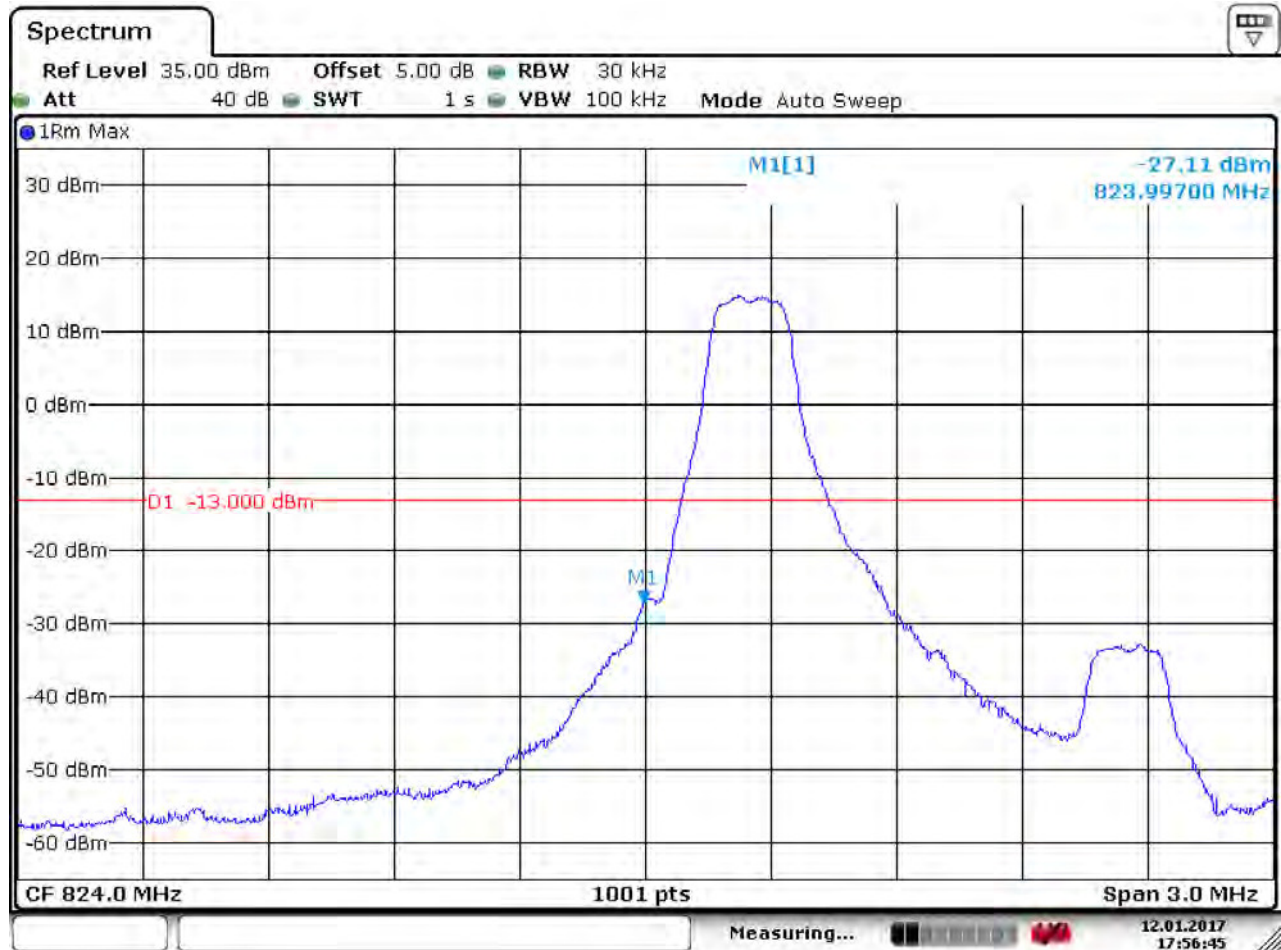
5.1 For LTE

5.1.1 Test Band = LTE band 26(824-849)

5.1.1.1 Test Mode = LTE/TM1 1.4MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB

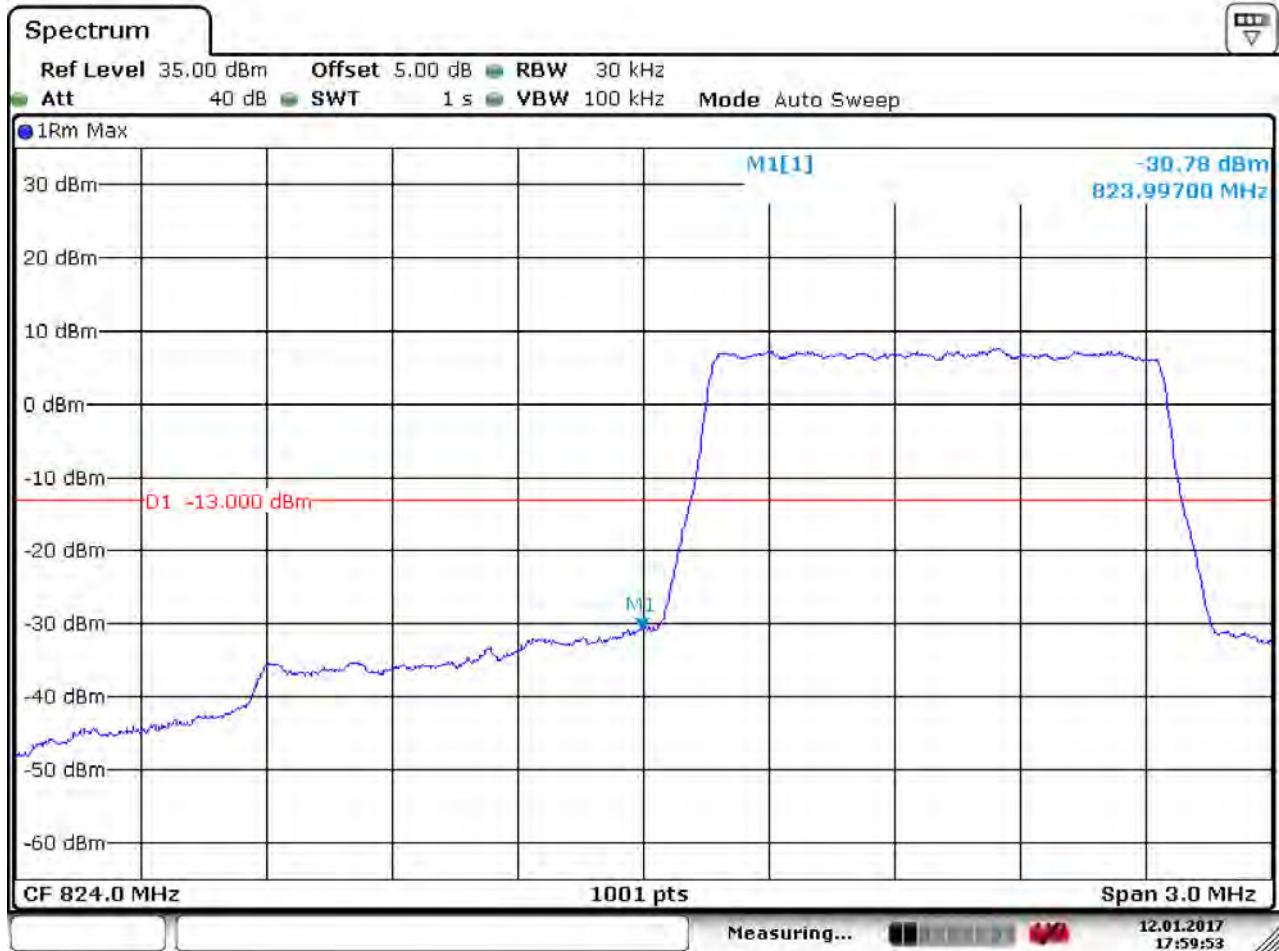


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5.1.1.1.2 Test RB=6RB

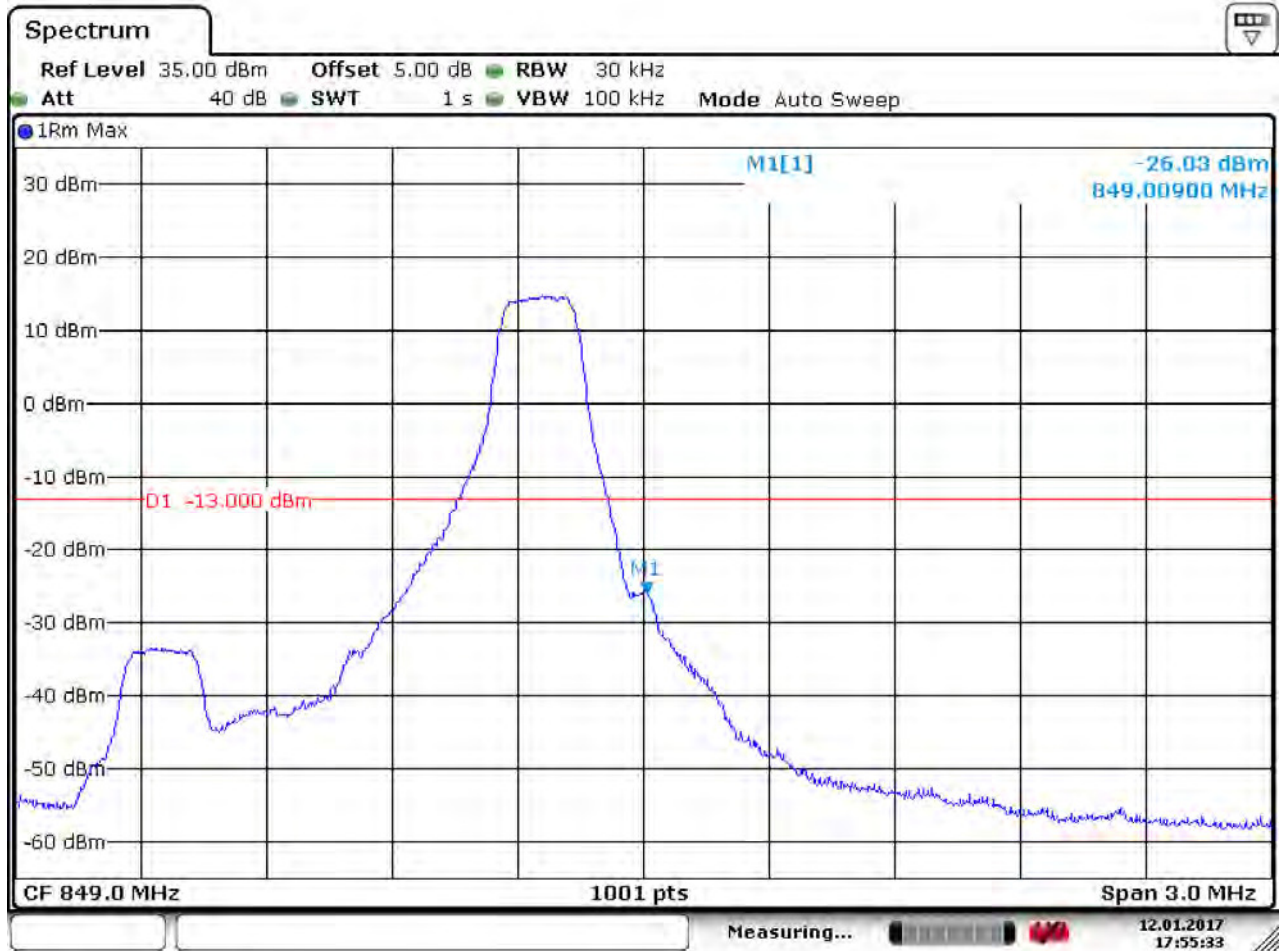


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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 12.JAN.2017 17:55:34