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Appendix B

E-UTRA Band 25



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Effective (Isotropic) Radiated Power Output Data 1

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 25									
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict	
				RB1#0	20.76	21.96	33.00	PASS	
				RB1#2	20.73	21.93	33.00	PASS	
				RB1#5	20.88	22.08	33.00	PASS	
			LCH	RB3#0	20.98	22.18	33.00	PASS	
				RB3#2	20.77	21.97	33.00	PASS	
				RB3#3	20.8	22	33.00	PASS	
				RB6#0	19.78	20.98	33.00	PASS	
				RB1#0	20.73	21.93	33.00	PASS	
				RB1#2	20.82	22.02	33.00	PASS	
				RB1#5	20.66	21.86	33.00	PASS	
BAND25	LTE/TM1	1.4M	MCH	RB3#0	20.92	22.12	33.00	PASS	
				RB3#2	20.99	22.19	33.00	PASS	
				RB3#3	20.92	22.12	33.00	PASS	
				RB6#0	19.89	21.09	33.00	PASS	
				RB1#0	20.76	21.96	33.00	PASS	
				RB1#2	20.86	22.06	33.00	PASS	
				RB1#5	20.85	22.05	33.00	PASS	
			HCH	RB3#0	20.9	22.1	33.00	PASS	
				RB3#2	20.94	22.14	33.00	PASS	
				RB3#3	21.06	22.26	33.00	PASS	
				RB6#0	19.85	21.05	33.00	PASS	



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.87	21.07	33.00	PASS
				RB1#2	19.83	21.03	33.00	PASS
				RB1#5	19.91	21.11	33.00	PASS
			LCH	RB3#0	19.66	20.86	33.00	PASS
				RB3#2	19.65	20.85	33.00	PASS
				RB3#3	19.63	20.83	33.00	PASS
				RB6#0	18.59	19.79	33.00	PASS
				RB1#0	19.38	20.58	33.00	PASS
				RB1#2	19.4	20.6	33.00	PASS
				RB1#5	18.81	20.01	33.00	PASS
BAND25	LTE/TM2	1.4M	MCH	RB3#0	19.57	20.77	33.00	PASS
				RB3#2	19.81	21.01	33.00	PASS
				RB3#3	19.76	20.96	33.00	PASS
				RB6#0	18.72	19.92	33.00	PASS
				RB1#0	19.13	20.33	33.00	PASS
				RB1#2	19.02	20.22	33.00	PASS
				RB1#5	19.42	20.62	33.00	PASS
			HCH	RB3#0	19.56	20.76	33.00	PASS
				RB3#2	19.8	21	33.00	PASS
				RB3#3	19.73	20.93	33.00	PASS
				RB6#0	18.91	20.11	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.9	22.1	33.00	PASS
				RB1#7	20.7	21.9	33.00	PASS
				RB1#14	20.75	21.95	33.00	PASS
			LCH	RB8#0	19.82	21.02	33.00	PASS
				RB8#4	19.91	21.11	33.00	PASS
				RB8#7	19.83	21.03	33.00	PASS
				RB15#0	19.83	21.03	33.00	PASS
				RB1#0	20.43	21.63	33.00	PASS
				RB1#7	20.74	21.94	33.00	PASS
				RB1#14	20.55	21.75	33.00	PASS
BAND25	LTE/TM1	3M	MCH	RB8#0	19.8	21	33.00	PASS
				RB8#4	19.82	21.02	33.00	PASS
				RB8#7	19.77	20.97	33.00	PASS
				RB15#0	19.88	21.08	33.00	PASS
				RB1#0	20.66	21.86	33.00	PASS
				RB1#7	20.8	22	33.00	PASS
				RB1#14	20.66	21.86	33.00	PASS
			HCH	RB8#0	19.92	21.12	33.00	PASS
				RB8#4	19.87	21.07	33.00	PASS
				RB8#7	19.94	21.14	33.00	PASS
				RB15#0	19.92	21.12	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.97	21.17	33.00	PASS
				RB1#7	19.97	21.17	33.00	PASS
				RB1#14	20.26	21.46	33.00	PASS
			LCH	RB8#0	18.62	19.82	33.00	PASS
				RB8#4	18.87	20.07	33.00	PASS
				RB8#7	18.85	20.05	33.00	PASS
				RB15#0	19	20.2	33.00	PASS
				RB1#0	19.4	20.6	33.00	PASS
				RB1#7	19.1	20.3	33.00	PASS
				RB1#14	19.54	20.74	33.00	PASS
BAND25	LTE/TM2	3M	MCH	RB8#0	18.87	20.07	33.00	PASS
				RB8#4	19	20.2	33.00	PASS
				RB8#7	18.84	20.04	33.00	PASS
				RB15#0	18.94	20.14	33.00	PASS
				RB1#0	20.35	21.55	33.00	PASS
				RB1#7	19.31	20.51	33.00	PASS
				RB1#14	19.6	20.8	33.00	PASS
			HCH	RB8#0	18.9	20.1	33.00	PASS
				RB8#4	18.94	20.14	33.00	PASS
				RB8#7	18.98	20.18	33.00	PASS
				RB15#0	19.05	20.25	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.7	21.9	33.00	PASS
				RB1#13	20.63	21.83	33.00	PASS
				RB1#24	20.67	21.87	33.00	PASS
			LCH	RB12#0	19.76	20.96	33.00	PASS
				RB12#6	19.83	21.03	33.00	PASS
				RB12#13	19.72	20.92	33.00	PASS
				RB25#0	19.75	20.95	33.00	PASS
				RB1#0	20.57	21.77	33.00	PASS
BAND25				RB1#13	20.54	21.74	33.00	PASS
				RB1#24	20.57	21.77	33.00	PASS
	LTE/TM1	5M	MCH	RB12#0	19.79	20.99	33.00	PASS
				RB12#6	19.93	21.13	33.00	PASS
				RB12#13	19.87	21.07	33.00	PASS
				RB25#0	19.86	21.06	33.00	PASS
				RB1#0	20.6	21.8	33.00	PASS
				RB1#13	20.64	21.84	33.00	PASS
				RB1#24	20.66	21.86	33.00	PASS
			HCH	RB12#0	19.79	20.99	33.00	PASS
				RB12#6	19.82	21.02	33.00	PASS
				RB12#13	19.84	21.04	33.00	PASS
				RB25#0	19.9	21.1	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.1	21.3	33.00	PASS
				RB1#13	19.58	20.78	33.00	PASS
				RB1#24	19.66	20.86	33.00	PASS
			LCH	RB12#0	18.68	19.88	33.00	PASS
				RB12#6	18.66	19.86	33.00	PASS
				RB12#13	18.62	19.82	33.00	PASS
				RB25#0	18.63	19.83	33.00	PASS
				RB1#0	19.73	20.93	33.00	PASS
				RB1#13	19.73	20.93	33.00	PASS
				RB1#24	19.98	21.18	33.00	PASS
BAND25	LTE/TM2	5M	MCH	RB12#0	18.62	19.82	33.00	PASS
				RB12#6	18.77	19.97	33.00	PASS
				RB12#13	18.93	20.13	33.00	PASS
				RB25#0	18.8	20	33.00	PASS
				RB1#0	20.04	21.24	33.00	PASS
				RB1#13	19.16	20.36	33.00	PASS
				RB1#24	19.5	20.7	33.00	PASS
			нсн	RB12#0	18.76	19.96	33.00	PASS
				RB12#6	18.91	20.11	33.00	PASS
				RB12#13	18.77	19.97	33.00	PASS
				RB25#0	18.73	19.93	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.57	21.77	33.00	PASS
				RB1#25	20.6	21.8	33.00	PASS
				RB1#49	20.71	21.91	33.00	PASS
			LCH	RB25#0	19.8	21	33.00	PASS
				RB25#13	19.9	21.1	33.00	PASS
				RB25#25	19.93	21.13	33.00	PASS
				RB50#0	19.84	21.04	33.00	PASS
				RB1#0	20.61	21.81	33.00	PASS
				RB1#25	20.89	22.09	33.00	PASS
				RB1#49	20.6	21.8	33.00	PASS
BAND25	LTE/TM1	10M	MCH	RB25#0	20.03	21.23	33.00	PASS
				RB25#13	20.02	21.22	33.00	PASS
				RB25#25	19.89	21.09	33.00	PASS
				RB50#0	19.96	21.16	33.00	PASS
				RB1#0	20.59	21.79	33.00	PASS
				RB1#25	20.82	22.02	33.00	PASS
				RB1#49	20.78	21.98	33.00	PASS
			НСН	RB25#0	19.84	21.04	33.00	PASS
				RB25#13	19.84	21.04	33.00	PASS
				RB25#25	19.81	21.01	33.00	PASS
				RB50#0	19.86	21.06	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19	20.2	33.00	PASS
				RB1#25	19.87	21.07	33.00	PASS
				RB1#49	19.65	20.85	33.00	PASS
			LCH	RB25#0	18.79	19.99	33.00	PASS
				RB25#13	18.99	20.19	33.00	PASS
				RB25#25	18.8	20	33.00	PASS
				RB50#0	18.88	20.08	33.00	PASS
				RB1#0	18.89	20.09	33.00	PASS
				RB1#25	19.15	20.35	33.00	PASS
				RB1#49	19.55	20.75	33.00	PASS
BAND25	LTE/TM2	10M	MCH	RB25#0	18.89	20.09	33.00	PASS
				RB25#13	19.12	20.32	33.00	PASS
				RB25#25	18.89	20.09	33.00	PASS
				RB50#0	18.97	20.17	33.00	PASS
				RB1#0	19.5	20.7	33.00	PASS
				RB1#25	19.37	20.57	33.00	PASS
				RB1#49	19.44	20.64	33.00	PASS
			HCH	RB25#0	19.05	20.25	33.00	PASS
				RB25#13	18.96	20.16	33.00	PASS
				RB25#25	18.83	20.03	33.00	PASS
				RB50#0	18.87	20.07	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.73	21.93	33.00	PASS
				RB1#38	20.76	21.96	33.00	PASS
				RB1#74	20.71	21.91	33.00	PASS
			LCH	RB36#0	19.9	21.1	33.00	PASS
				RB36#18	19.84	21.04	33.00	PASS
				RB36#39	19.82	21.02	33.00	PASS
				RB75#0	19.9	21.1	33.00	PASS
				RB1#0	20.68	21.88	33.00	PASS
				RB1#38	20.82	22.02	33.00	PASS
				RB1#74	20.71	21.91	33.00	PASS
BAND25	LTE/TM1	15M	MCH	RB36#0	20.02	21.22	33.00	PASS
				RB36#18	19.93	21.13	33.00	PASS
				RB36#39	19.96	21.16	33.00	PASS
				RB75#0	19.93	21.13	33.00	PASS
				RB1#0	20.66	21.86	33.00	PASS
				RB1#38	20.95	22.15	33.00	PASS
				RB1#74	20.77	21.97	33.00	PASS
			HCH	RB36#0	19.9	21.1	33.00	PASS
				RB36#18	19.93	21.13	33.00	PASS
				RB36#39	19.71	20.91	33.00	PASS
				RB75#0	19.82	21.02	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	19.59	20.79	33.00	PASS
				RB1#38	19.4	20.6	33.00	PASS
				RB1#74	18.84	20.04	33.00	PASS
			LCH	RB36#0	18.95	20.15	33.00	PASS
				RB36#18	18.77	19.97	33.00	PASS
				RB36#39	18.95	20.15	33.00	PASS
				RB75#0	18.99	20.19	33.00	PASS
				RB1#0	19.84	21.04	33.00	PASS
				RB1#38	19.91	21.11	33.00	PASS
				RB1#74	19.79	20.99	33.00	PASS
BAND25	LTE/TM2	15M	MCH	RB36#0	19.05	20.25	33.00	PASS
				RB36#18	18.95	20.15	33.00	PASS
				RB36#39	19	20.2	33.00	PASS
				RB75#0	18.97	20.17	33.00	PASS
				RB1#0	19.83	21.03	33.00	PASS
				RB1#38	19.66	20.86	33.00	PASS
				RB1#74	19.4	20.6	33.00	PASS
			HCH	RB36#0	18.89	20.09	33.00	PASS
				RB36#18	18.88	20.08	33.00	PASS
				RB36#39	18.89	20.09	33.00	PASS
				RB75#0	18.85	20.05	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	20.61	21.81	33.00	PASS
				RB1#50	21.02	22.22	33.00	PASS
				RB1#99	20.47	21.67	33.00	PASS
			LCH	RB50#0	20.02	21.22	33.00	PASS
				RB50#25	19.85	21.05	33.00	PASS
				RB50#50	19.85	21.05	33.00	PASS
				RB100#0	19.91	21.11	33.00	PASS
				RB1#0	20.41	21.61	33.00	PASS
				RB1#50	21.01	22.21	33.00	PASS
				RB1#99	20.47	21.67	33.00	PASS
BAND25	LTE/TM1	20M	MCH	RB50#0	20.01	21.21	33.00	PASS
				RB50#25	19.94	21.14	33.00	PASS
				RB50#50	19.91	21.11	33.00	PASS
				RB100#0	19.99	21.19	33.00	PASS
				RB1#0	20.66	21.86	33.00	PASS
				RB1#50	21	22.2	33.00	PASS
				RB1#99	20.74	21.94	33.00	PASS
			HCH	RB50#0	19.91	21.11	33.00	PASS
				RB50#25	19.84	21.04	33.00	PASS
				RB50#50	19.95	21.15	33.00	PASS
				RB100#0	19.81	21.01	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
			LCH	RB1#0	19.35	20.55	33.00	PASS
				RB1#50	19.81	21.01	33.00	PASS
				RB1#99	19.17	20.37	33.00	PASS
				RB50#0	19.04	20.24	33.00	PASS
				RB50#25	18.75	19.95	33.00	PASS
				RB50#50	19.04	20.24	33.00	PASS
				RB100#0	18.93	20.13	33.00	PASS
				RB1#0	19.6	20.8	33.00	PASS
				RB1#50	19.75	20.95	33.00	PASS
				RB1#99	19	20.2	33.00	PASS
BAND25	LTE/TM2	20M	MCH	RB50#0	19	20.2	33.00	PASS
				RB50#25	19.14	20.34	33.00	PASS
				RB50#50	19.05	20.25	33.00	PASS
				RB100#0	19.06	20.26	33.00	PASS
			НСН	RB1#0	19.43	20.63	33.00	PASS
				RB1#50	19.33	20.53	33.00	PASS
				RB1#99	19.44	20.64	33.00	PASS
				RB50#0	19.02	20.22	33.00	PASS
				RB50#25	19.02	20.22	33.00	PASS
				RB50#50	19.05	20.25	33.00	PASS
				RB100#0	18.96	20.16	33.00	PASS

Note:

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

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b: SGP=Signal Generator Level



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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 25	TM1/20M	LCH	4.58	13	PASS
		MCH	4.49	13	PASS
		HCH	4.70	13	PASS
	TM2/20M	LCH	5.59	13	PASS
		MCH	5.59	13	PASS
		HCH	5.62	13	PASS

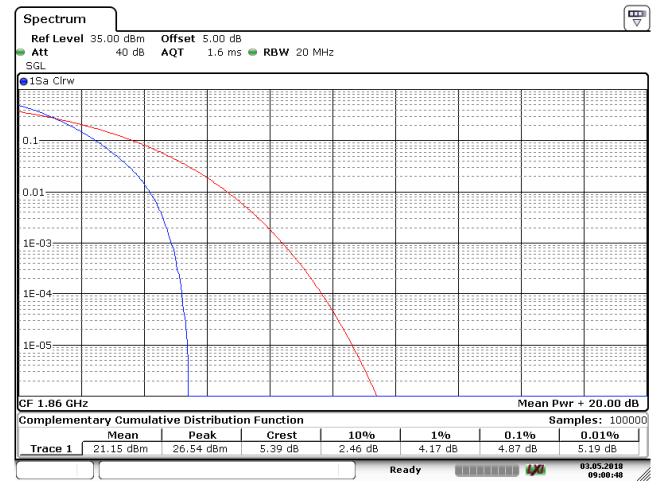
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band25

2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

2.1.1.1.1 Test Channel = LCH



Date: 3.MAY.2018 09:00:49



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2.1.1.1.2 Test Channel = MCH



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2.1.1.1.3 Test Channel = HCH



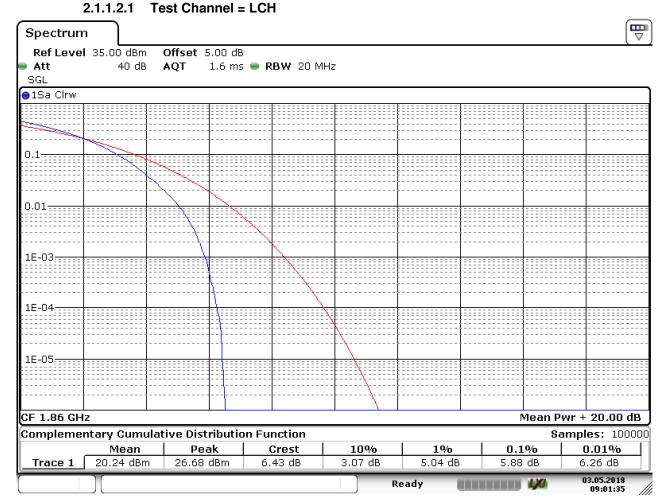
Date: 3.MAY.2018 09:02:11



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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz



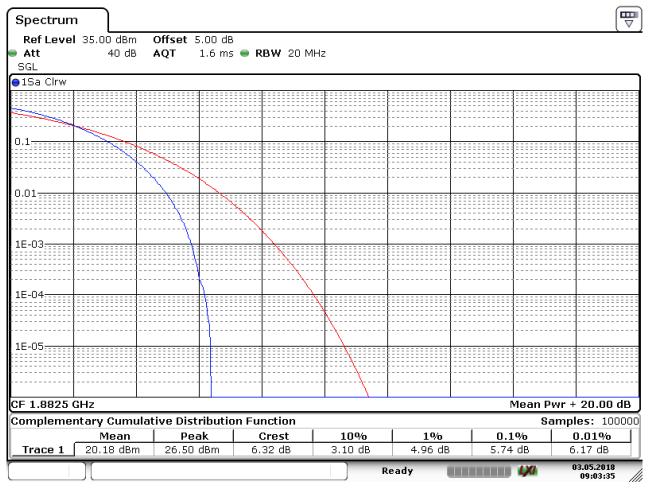
Date: 3.MAY.2018 09:01:35



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2.1.1.2.2 Test Channel = MCH



Date: 3.MAY.2018 09:03:34



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2.1.1.2.3 Test Channel = HCH



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3 Modulation Characteristics

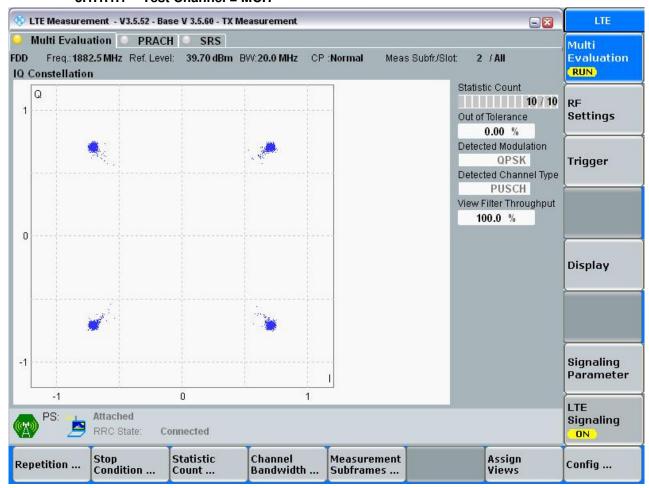
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band25

3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



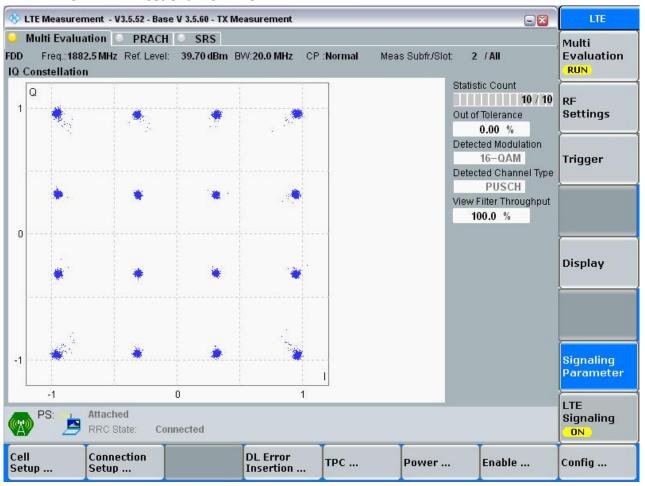


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3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH





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4 Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
		LCH	1.08	1.24	PASS
	TM1/1.4MHz	MCH	1.08	1.23	PASS
		HCH	1.09	1.24	PASS
		LCH	1.08	1.24	PASS
	TM2/1.4MHz	MCH	1.08	1.24	PASS
		HCH	1.08	1.23	PASS
		LCH	2.72	2.96	PASS
	TM1/3MHz	MCH	2.72	2.95	PASS
		HCH	2.73	2.98	PASS
		LCH	2.72	2.96	PASS
	TM2/3MHz	MCH	2.72	2.96	PASS
		HCH	2.72	2.97	PASS
		LCH	4.48	4.83	PASS
	TM1/5MHz	MCH	4.49	4.80	PASS
		HCH	4.49	4.81	PASS
		LCH	4.49	4.82	PASS
	TM2/5MHz	MCH	4.49	4.79	PASS
		HCH	4.49	4.80	PASS
Band 25		LCH	8.93	9.49	PASS
	TM1/10MHz	MCH	8.93	9.50	PASS
		HCH	8.93	9.49	PASS
		LCH	8.93	9.51	PASS
	TM2/ 10MHz	MCH	8.93	9.52	PASS
		HCH	8.91	9.49	PASS
		LCH	13.40	14.24	PASS
	TM1/ 15MHz	MCH	13.37	14.20	PASS
		HCH	13.37	14.21	PASS
		LCH	13.40	14.24	PASS
	TM2/ 15MHz	MCH	13.37	14.23	PASS
		HCH	13.37	14.21	PASS
		LCH	17.94	19.18	PASS
	TM1/20MHz	MCH	17.90	19.16	PASS
		HCH	17.90	19.10	PASS
		LCH	17.94	19.22	PASS
	TM2/ 20MHz	MCH	17.90	19.20	PASS
		HCH	17.90	19.14	PASS



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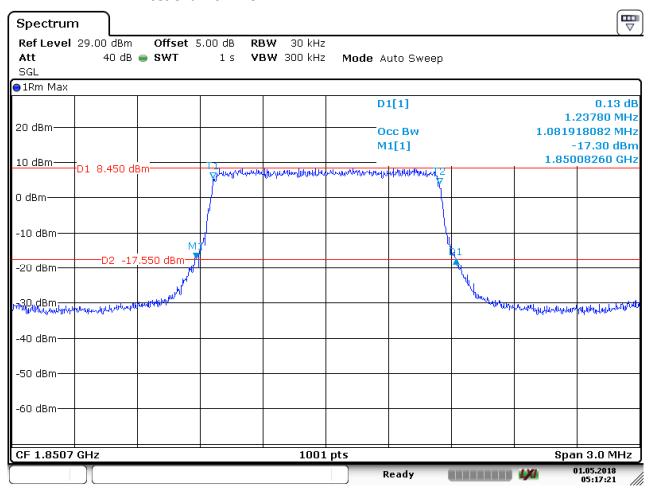
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4.1 For LTE

4.1.1 Test Band = LTE band25

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

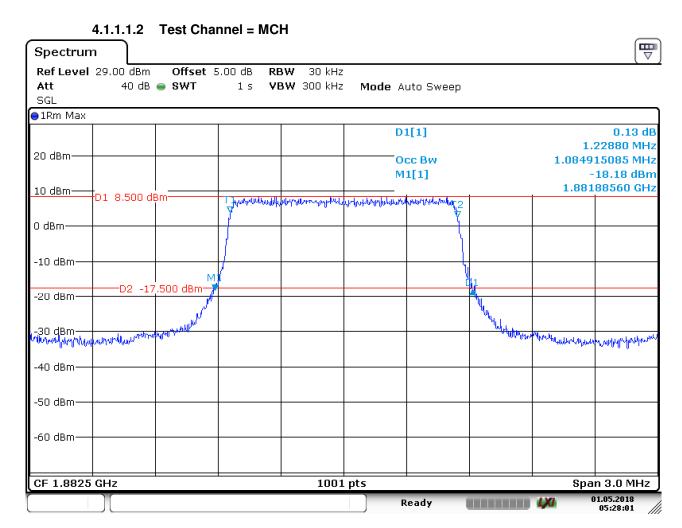


Date: 1.MAY.2018 05:17:21



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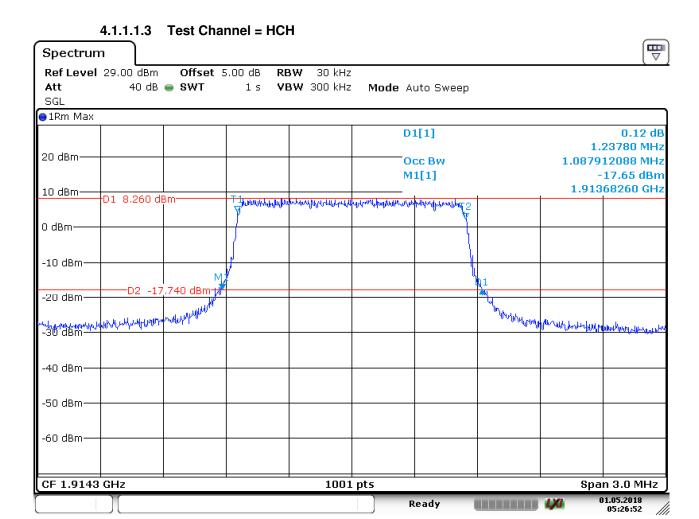


Date: 1.MAY.2018 05:28:01



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Date: 1.MAY.2018 05:26:52

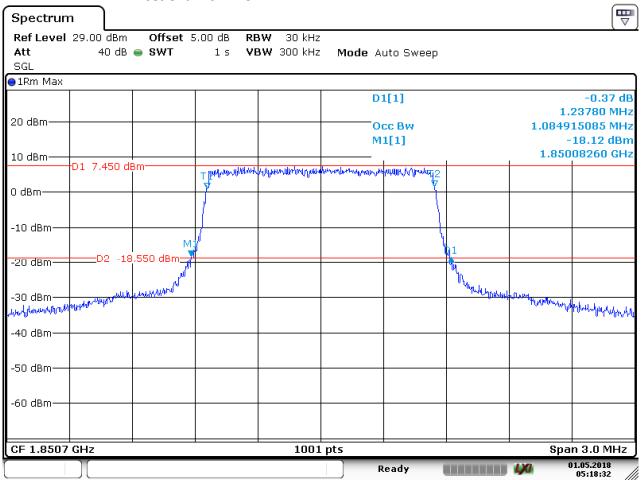


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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

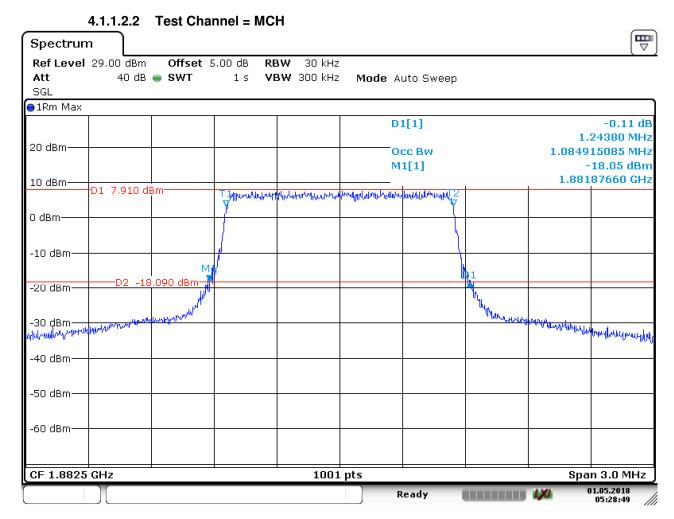


Date: 1.MAY.2018 05:18:32



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Date: 1.MAY.2018 05:28:50

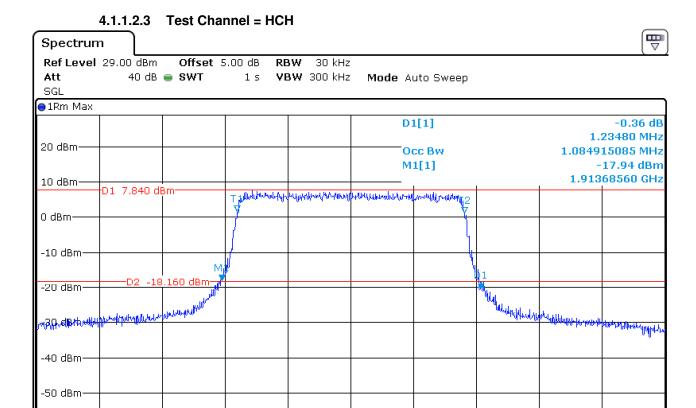


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Span 3.0 MHz 01.05.2018

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1001 pts

Ready

Date: 1.MAY.2018 05:19:36

CF 1.9143 GHz

-60 dBm⁻

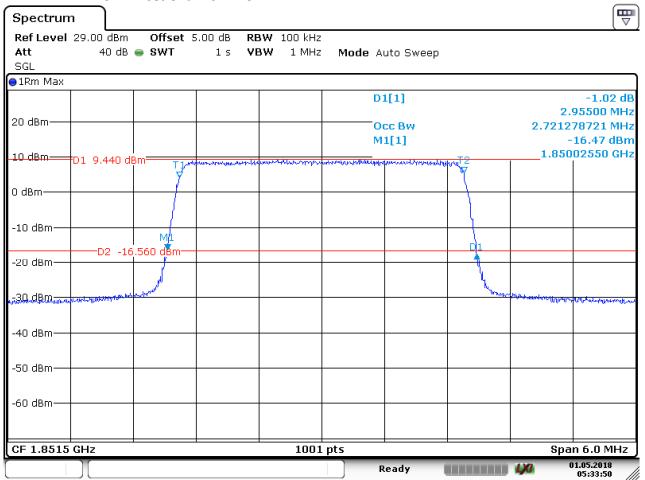


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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH



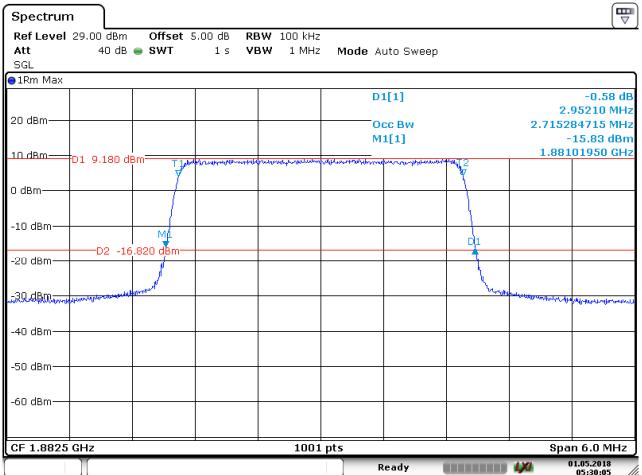
Date: 1.MAY.2018 05:33:50



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4.1.1.3.2 Test Channel = MCH



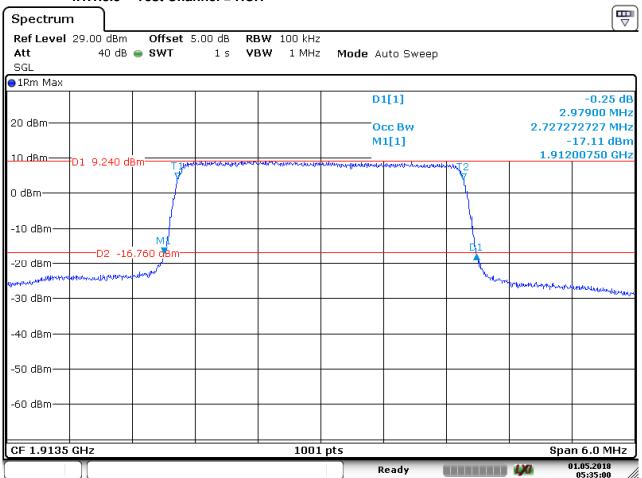
Date: 1.MAY.2018 05:30:06



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4.1.1.3.3 Test Channel = HCH



Date: 1.MAY.2018 05:35:00

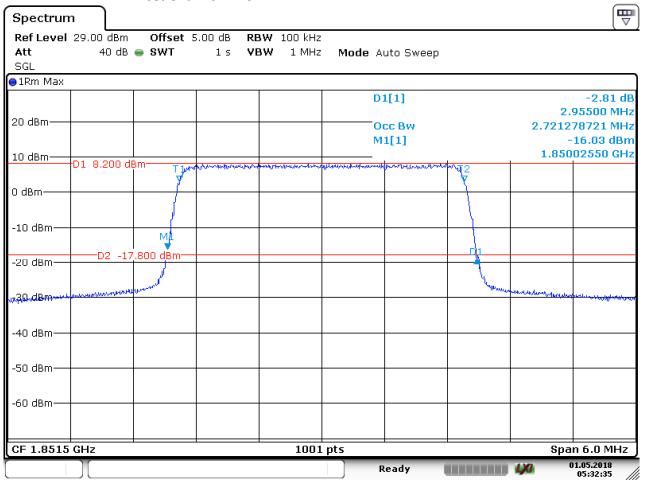


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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH



Date: 1.MAY.2018 05:32:35

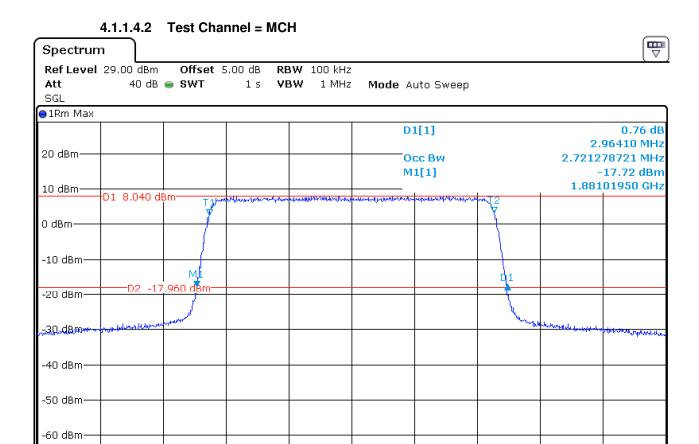


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Span 6.0 MHz 01.05.2018

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1001 pts

Ready

Date: 1.MAY.2018 05:30:58

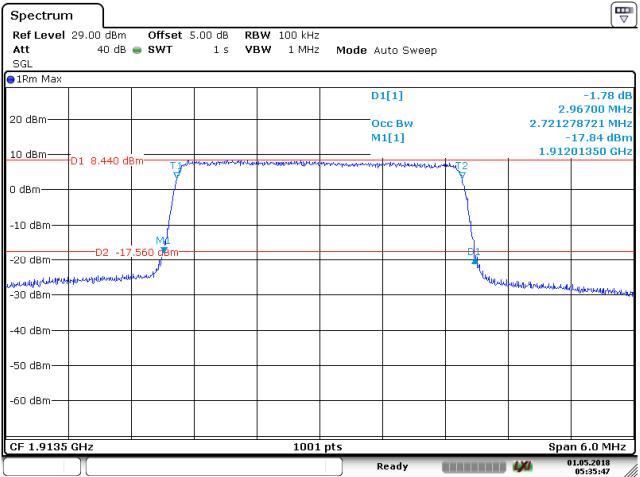
CF 1.8825 GHz



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4.1.1.4.3 Test Channel = HCH



Date: 1.MAY.2018 05:35:47

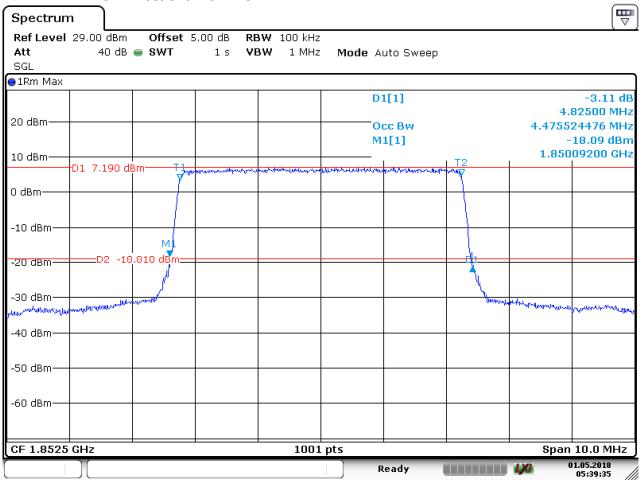


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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

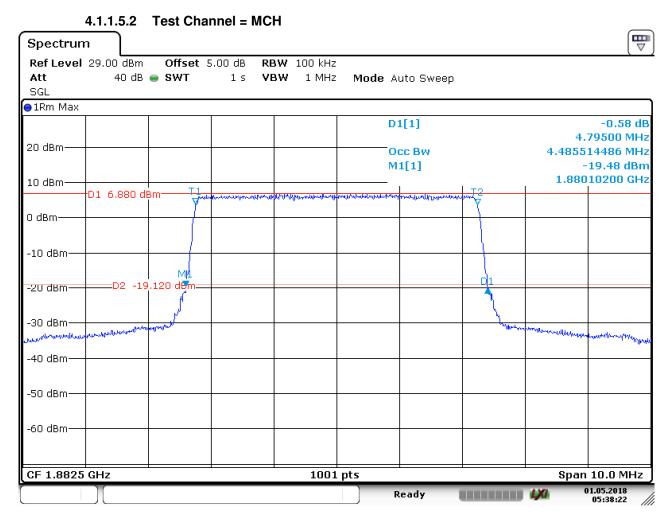


Date: 1.MAY.2018 05:39:35



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Date: 1.MAY.2018 05:38:23



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4.1.1.5.3 Test Channel = HCH



Date: 1.MAY.2018 05:42:16

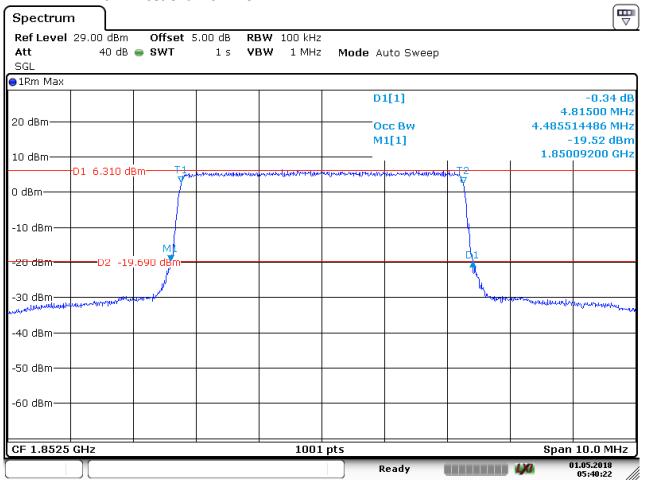


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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH



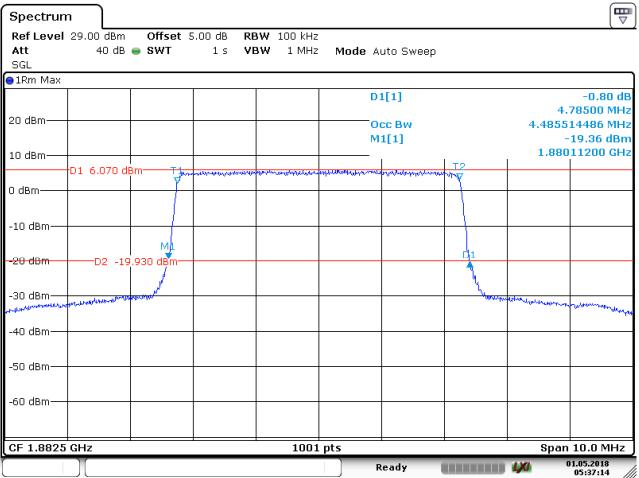
Date: 1.MAY.2018 05:40:22



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4.1.1.6.2 Test Channel = MCH

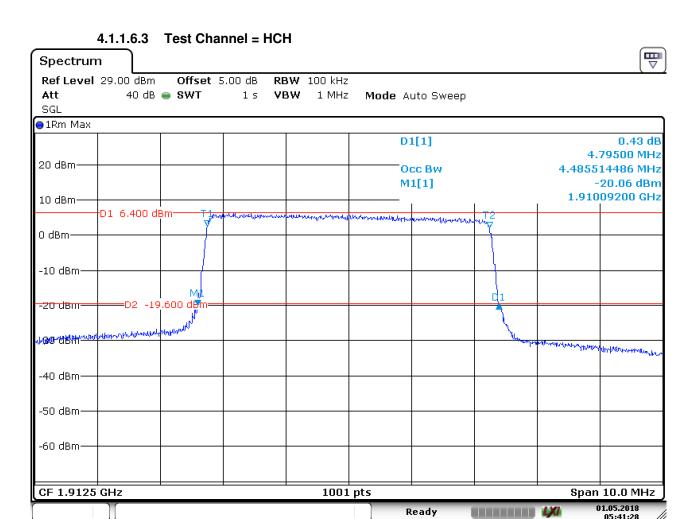


Date: 1.MAY.2018 05:37:14



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Ready

Date: 1.MAY.2018 05:41:29

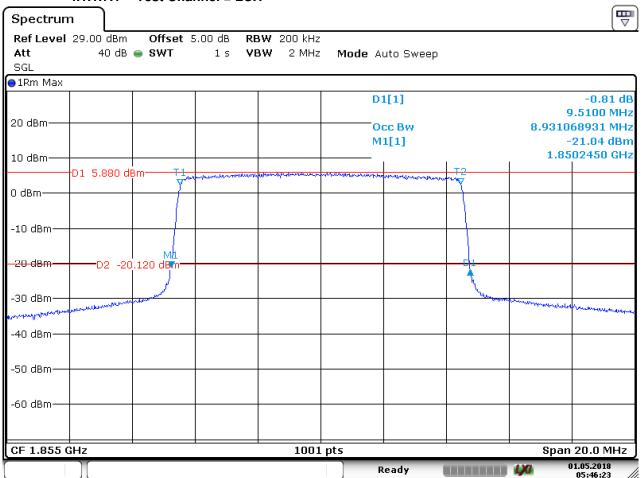


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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

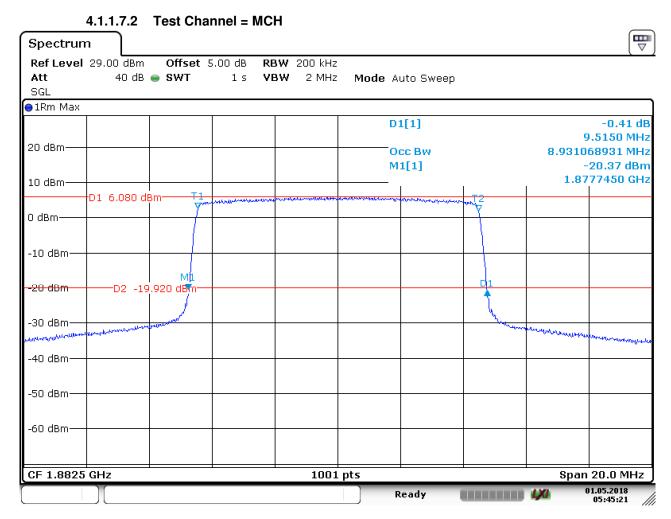


Date: 1.MAY.2018 05:46:23



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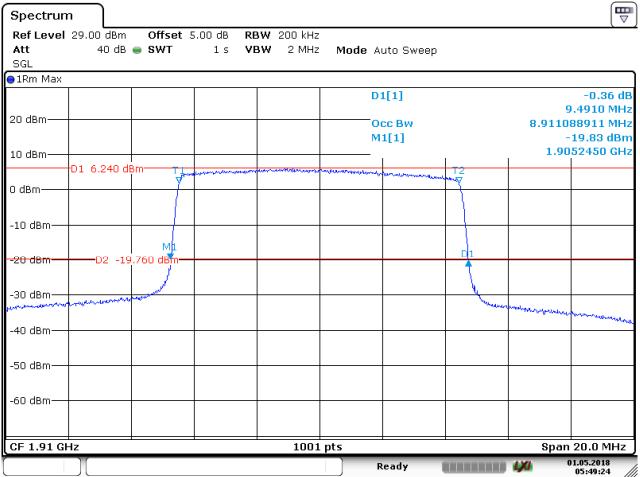
Date: 1.MAY.2018 05:45:22



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4.1.1.7.3 Test Channel = HCH



Date: 1.MAY.2018 05:49:25

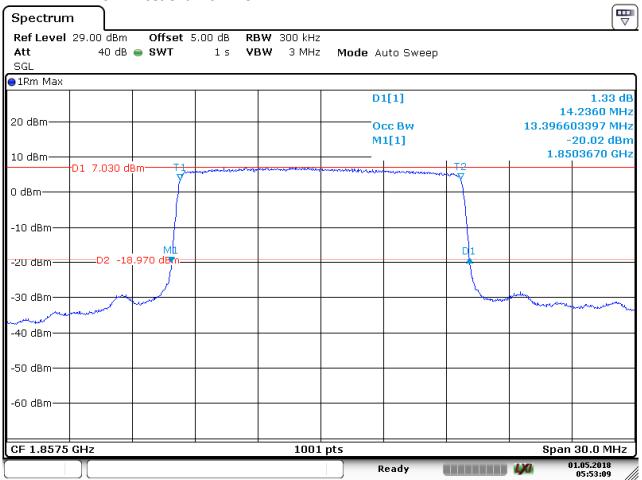


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4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH



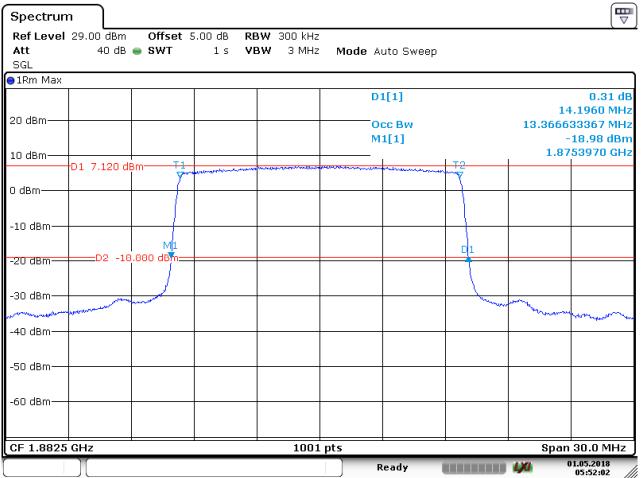
Date: 1.MAY.2018 05:53:09



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4.1.1.8.2 Test Channel = MCH

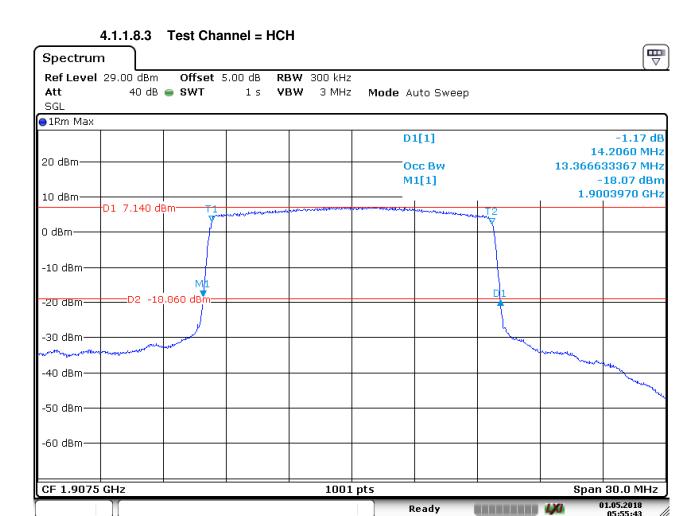


Date: 1.MAY.2018 05:52:02



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Date: 1.MAY.2018 05:55:43

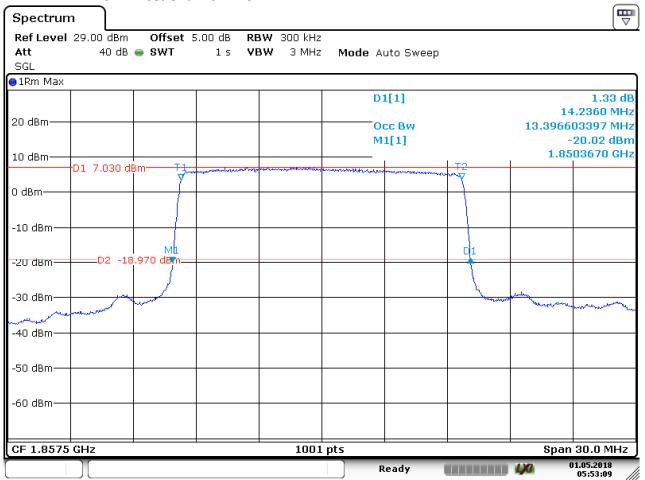


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4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH

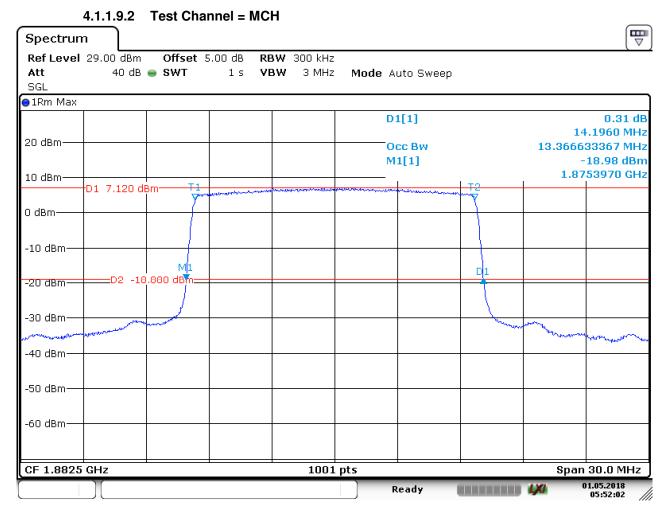


Date: 1.MAY.2018 05:53:09



Report No.: SZEM180300241701

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Date: 1.MAY.2018 05:52:02



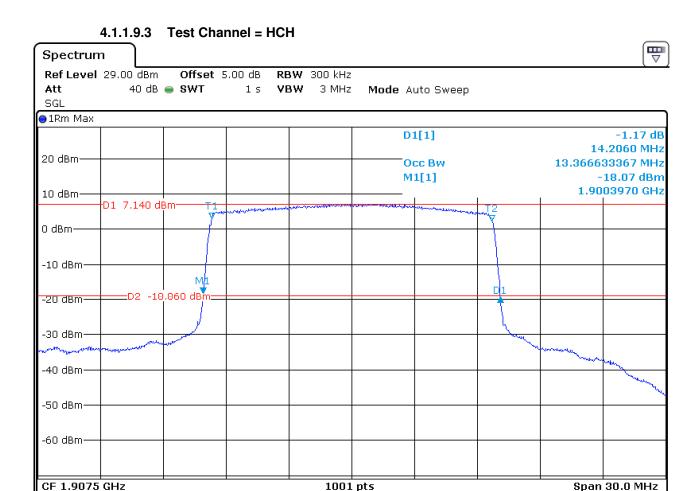
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Ready

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Date: 1.MAY.2018 05:55:43

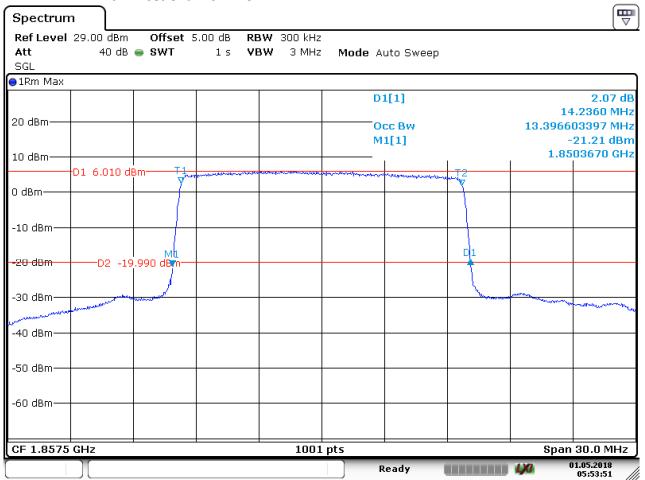


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4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH

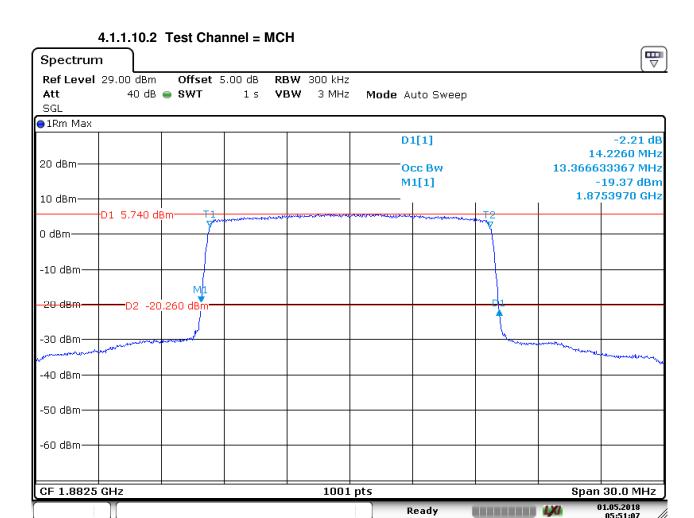


Date: 1.MAY.2018 05:53:52



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Date: 1.MAY.2018 05:51:07



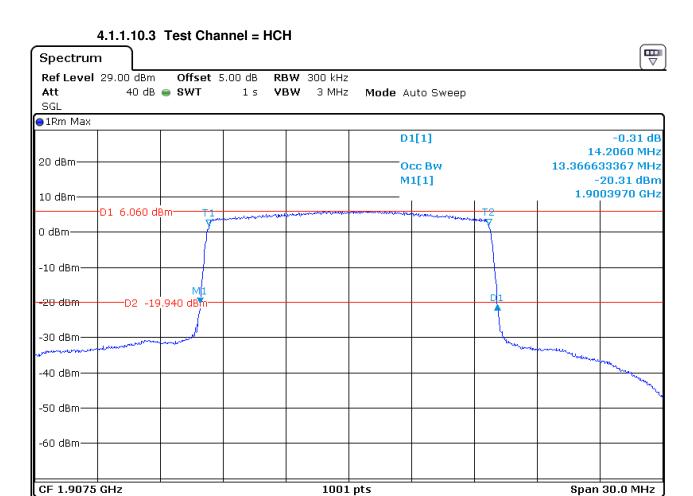
Report No.: SZEM180300241701

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Ready

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Date: 1.MAY.2018 05:54:56

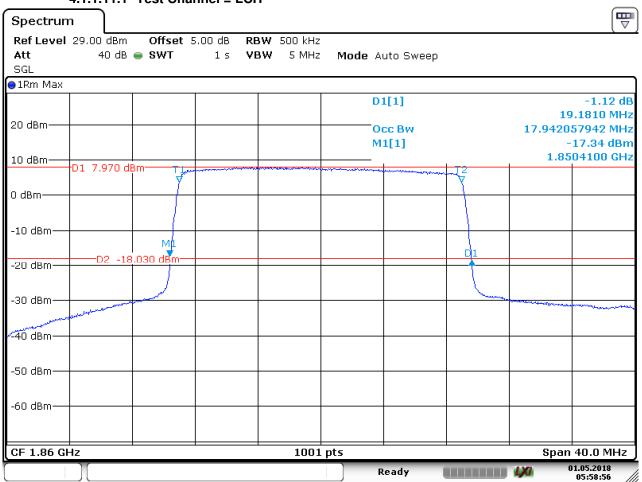


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4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

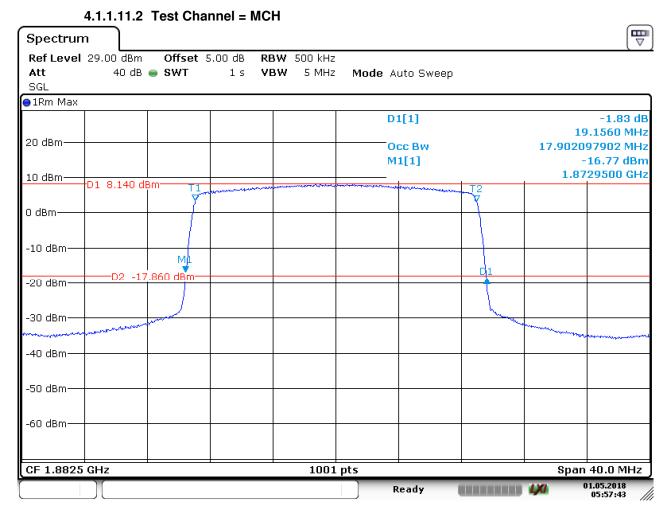


Date: 1.MAY.2018 05:58:57



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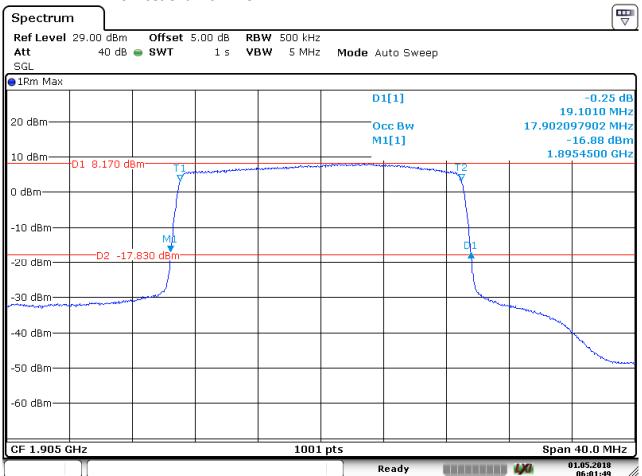
Date: 1.MAY.2018 05:57:44



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4.1.1.11.3 Test Channel = HCH



Date: 1.MAY.2018 06:01:50

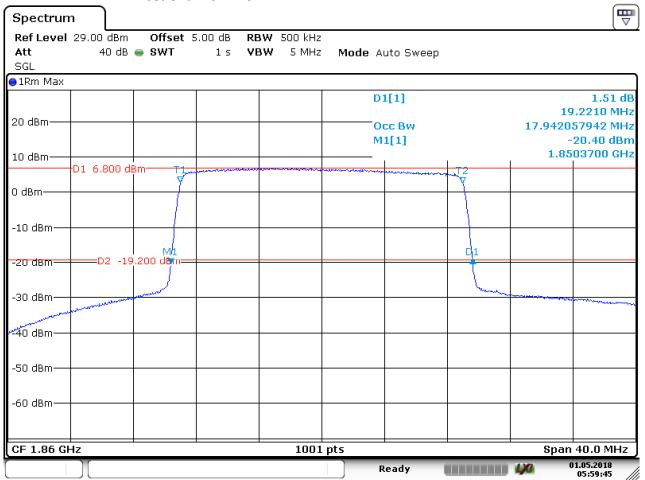


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4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH



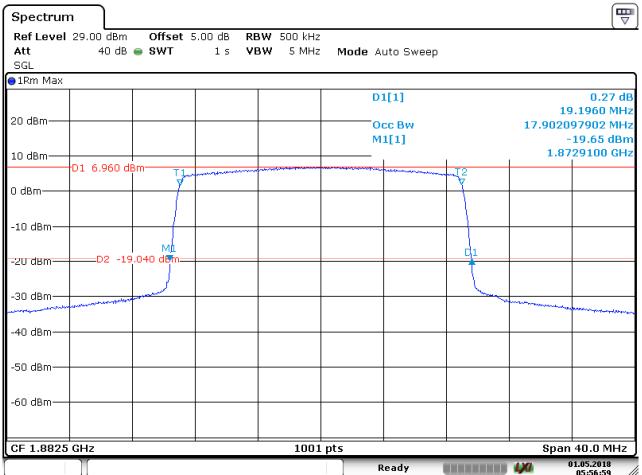
Date: 1.MAY.2018 05:59:46



Report No.: SZEM180300241701

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4.1.1.12.2 Test Channel = MCH



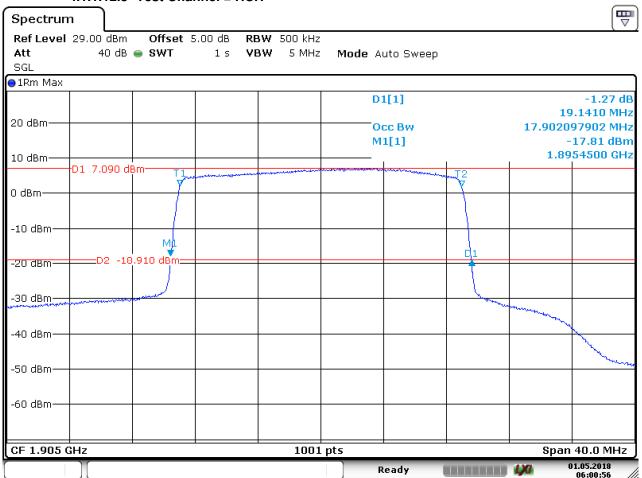
Date: 1.MAY.2018 05:57:00



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4.1.1.12.3 Test Channel = HCH



Date: 1.MAY.2018 06:00:56



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5 Band Edges Compliance

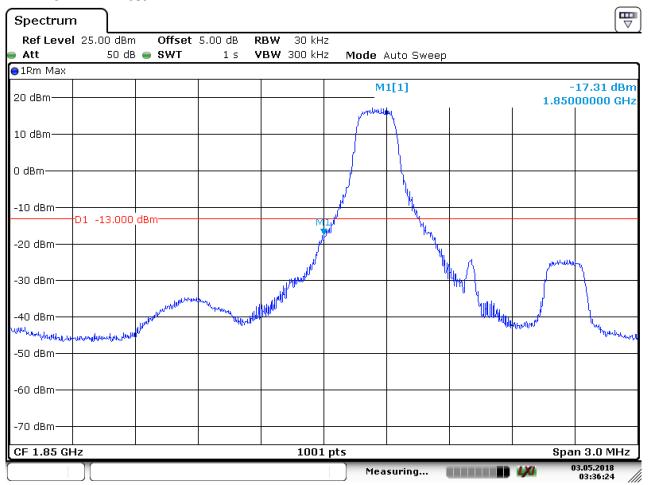
5.1 For LTE

5.1.1 Test Band = LTE band25

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



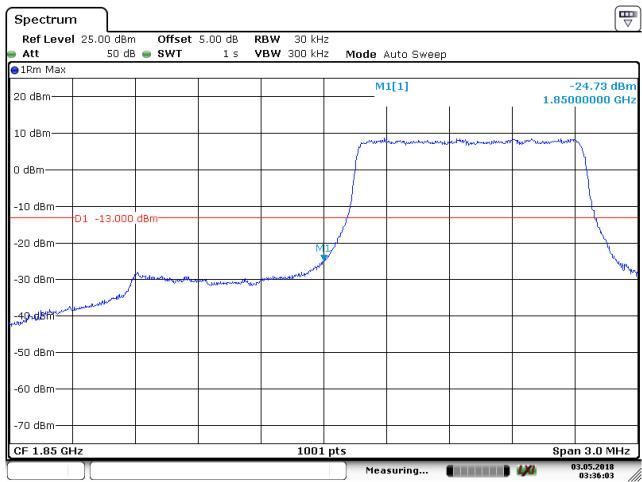
Date: 3.MAY.2018 03:36:25



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5.1.1.1.1.2 Test RB=6RB



Date: 3.MAY.2018 03:36:03



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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 3.MAY.2018 03:34:34



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5.1.1.1.2.2 Test RB=6RB



Date: 3.MAY.2018 03:34:50

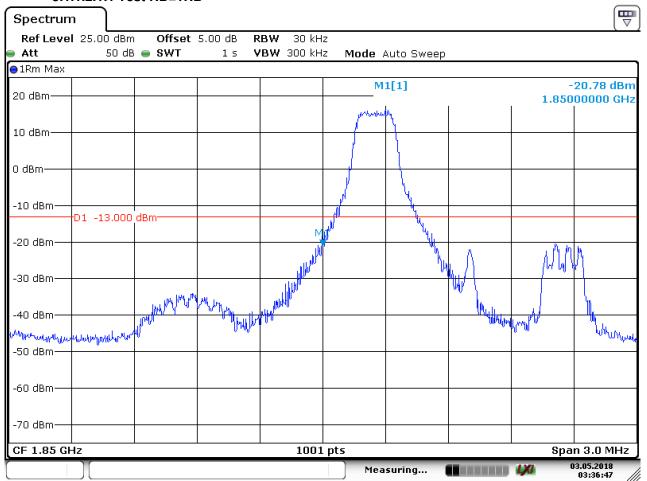


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5.1.1.2 Test Mode = LTE/TM2 1.4MHz 5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



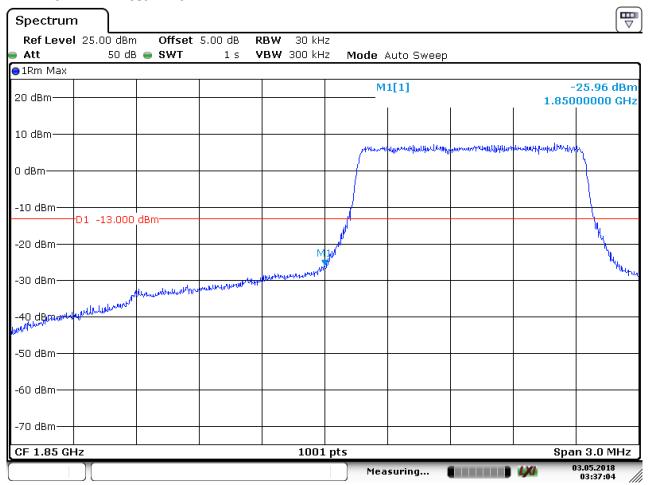
Date: 3.MAY.2018 03:36:47



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5.1.1.2.1.2 Test RB=6RB



Date: 3.MAY.2018 03:37:05

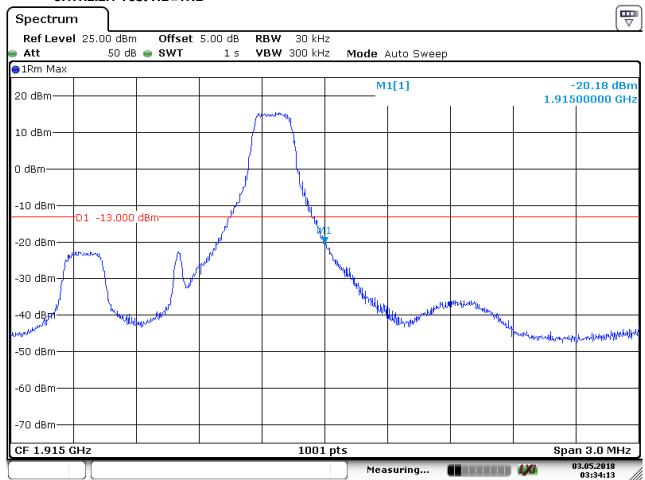


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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



Date: 3.MAY.2018 03:34:13



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5.1.1.2.2.2 Test RB=6RB



Date: 3.MAY.2018 03:33:39

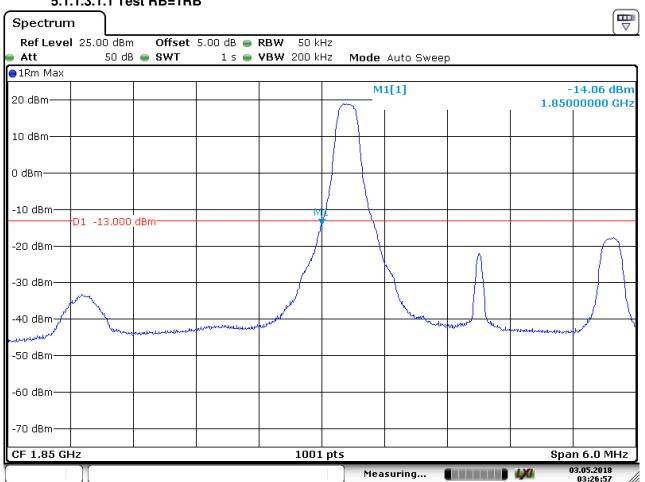


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5.1.1.3 Test Mode = LTE/TM1 3MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



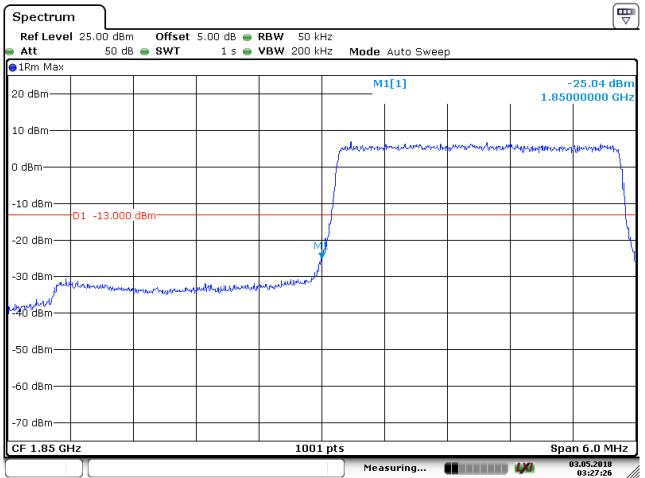
Date: 3.MAY.2018 03:26:57



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5.1.1.3.1.2 Test RB=15RB



Date: 3.MAY.2018 03:27:26

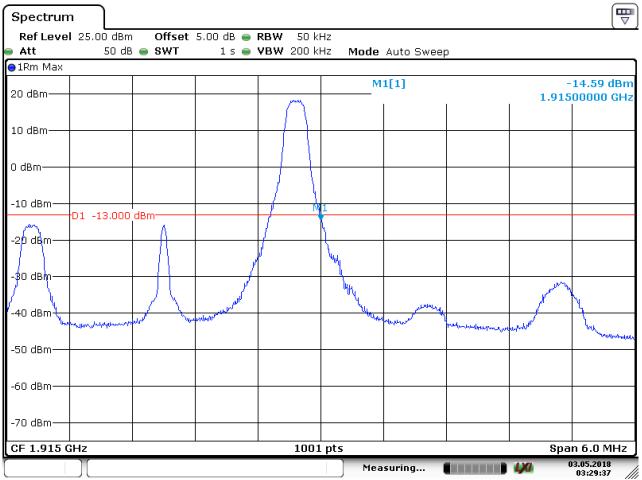


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



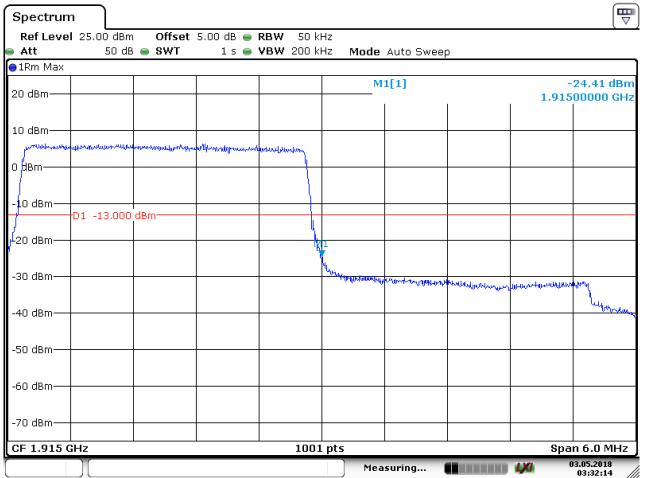
Date: 3.MAY.2018 03:29:37



Report No.: SZEM180300241701

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5.1.1.3.2.2 Test RB=15RB



Date: 3.MAY.2018 03:32:15

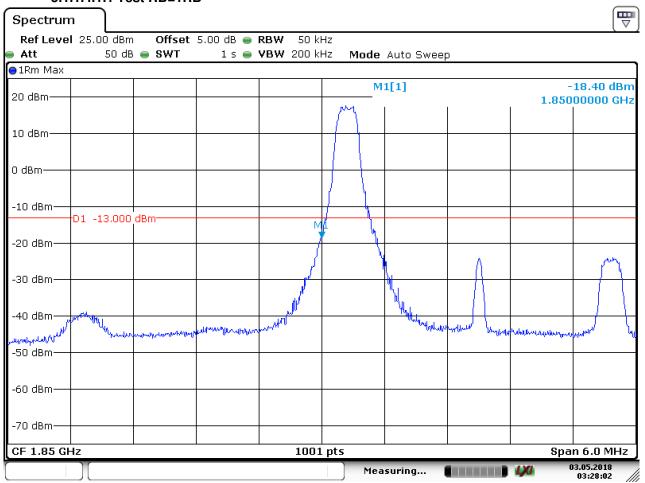


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5.1.1.4 Test Mode = LTE/TM2 3MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



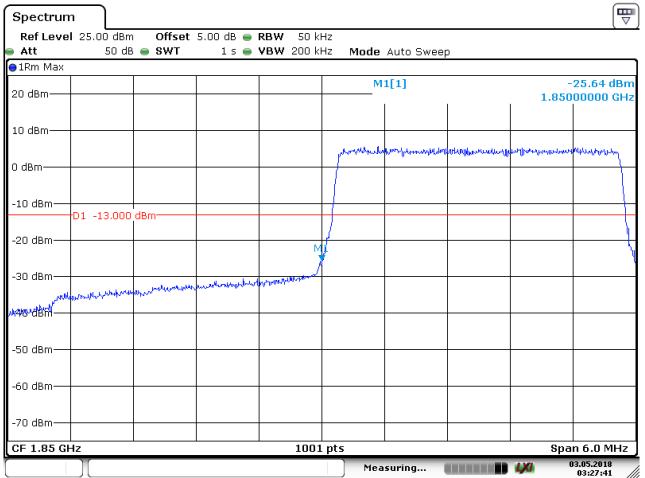
Date: 3.MAY.2018 03:28:03



Report No.: SZEM180300241701

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5.1.1.4.1.2 Test RB=15RB



Date: 3.MAY.2018 03:27:42

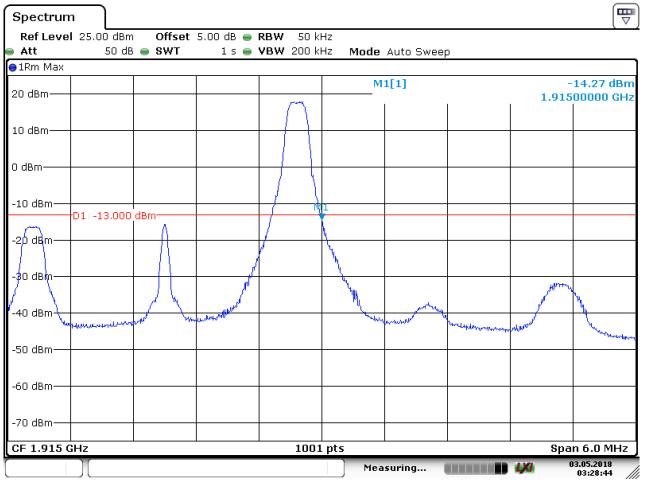


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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



Date: 3.MAY.2018 03:28:45



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5.1.1.4.3 Test RB=15RB



Date: 3.MAY.2018 03:29:03

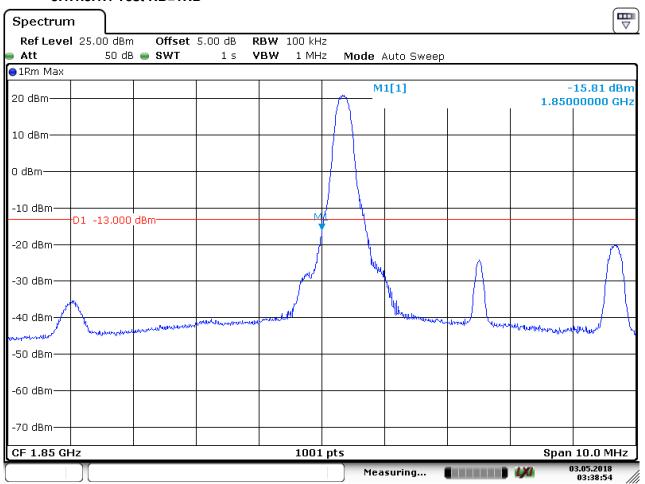


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5.1.1.5 Test Mode = LTE/TM1 5MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



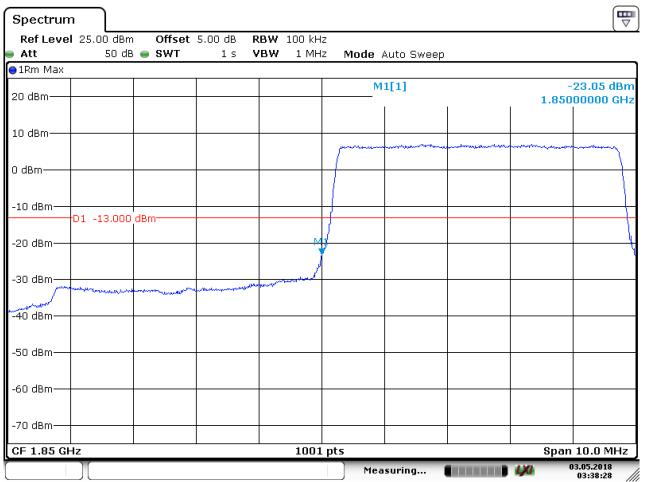
Date: 3.MAY.2018 03:38:53



Report No.: SZEM180300241701

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5.1.1.5.1.2 Test RB=25RB



Date: 3.MAY.2018 03:38:28

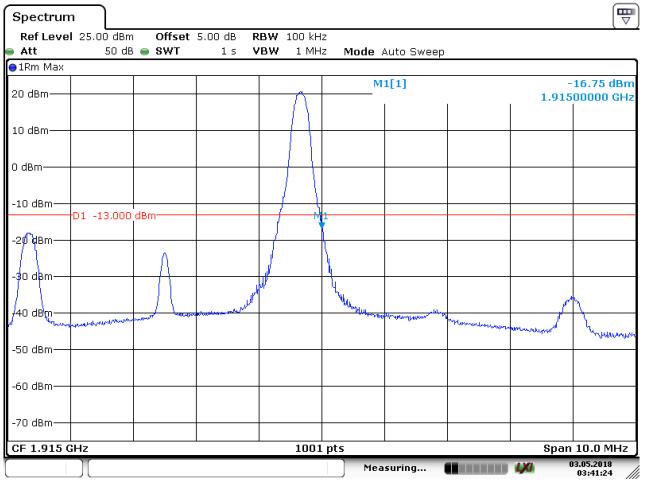


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



Date: 3.MAY.2018 03:41:24



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5.1.1.5.2.2 Test RB=25RB



Date: 3.MAY.2018 03:43:06

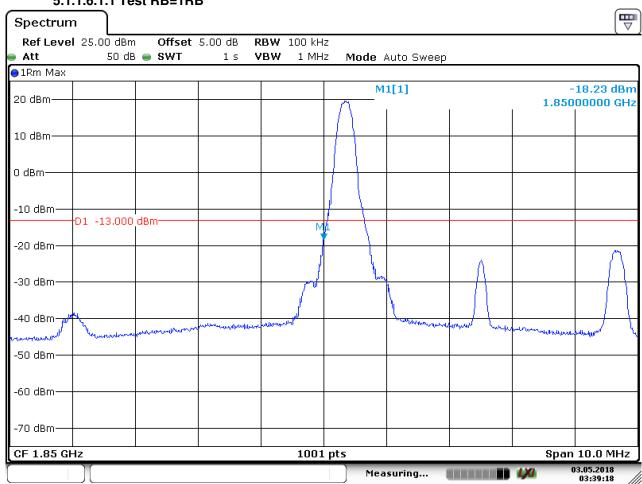


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5.1.1.6 Test Mode = LTE/TM2 5MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



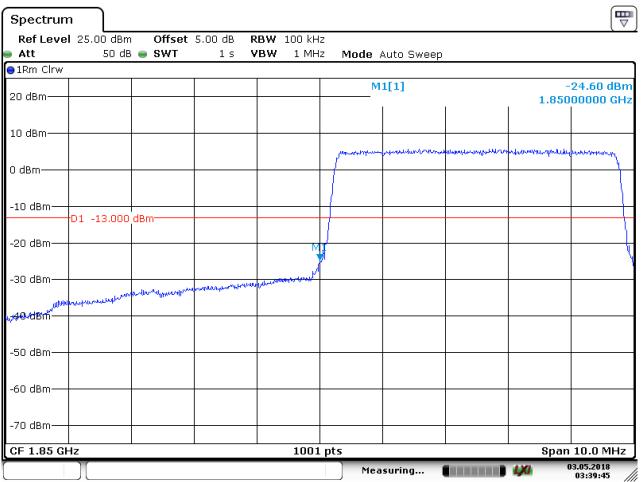
Date: 3.MAY.2018 03:39:18



Report No.: SZEM180300241701

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5.1.1.6.1.2 Test RB=25RB



Date: 3.MAY.2018 03:39:45

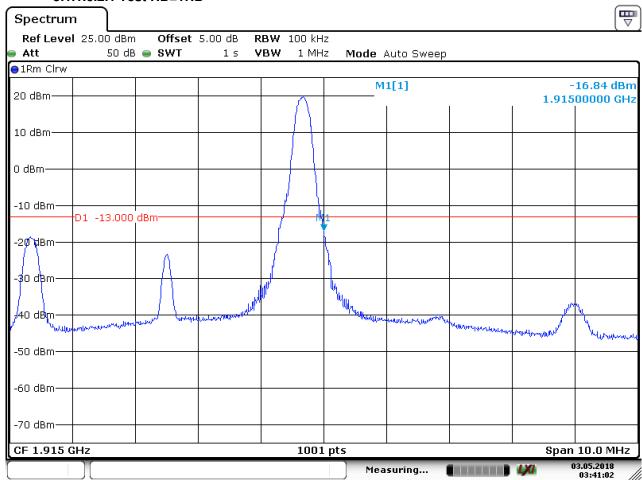


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



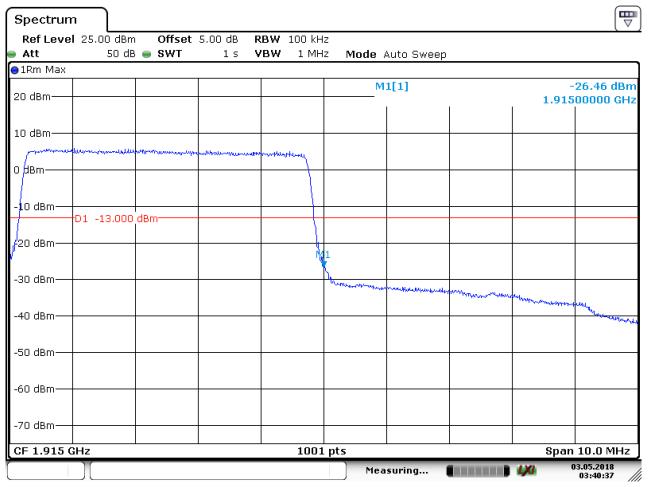
Date: 3.MAY.2018 03:41:03



Report No.: SZEM180300241701

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5.1.1.6.2.2 Test RB=25RB



Date: 3.MAY.2018 03:40:38

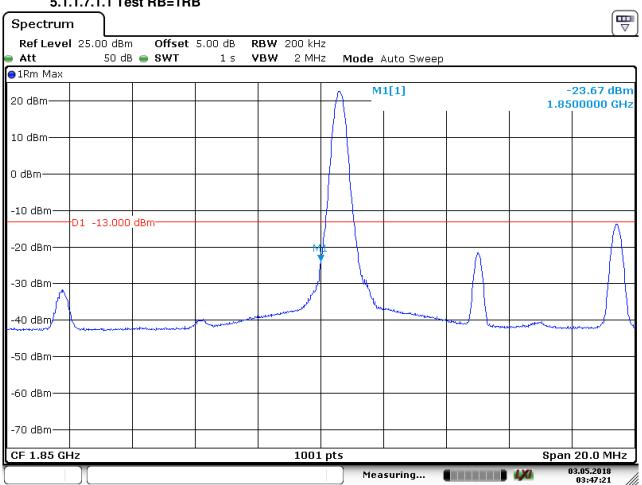


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5.1.1.7 Test Mode = LTE/TM1 10MHz **5.1.1.7.1** Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



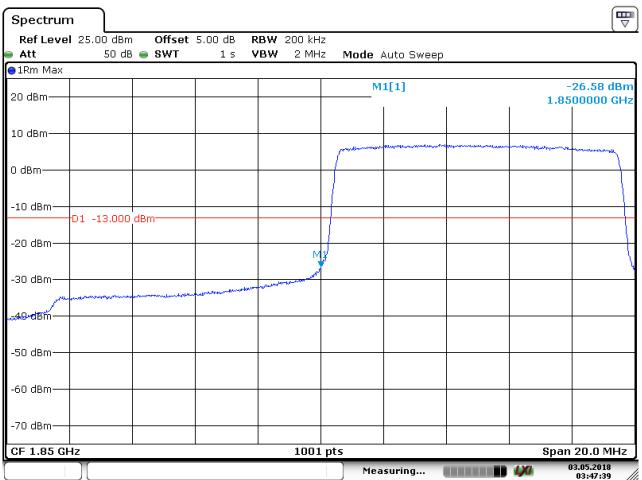
Date: 3.MAY.2018 03:47:21



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5.1.1.7.1.2 Test RB=50RB



Date: 3.MAY.2018 03:47:39

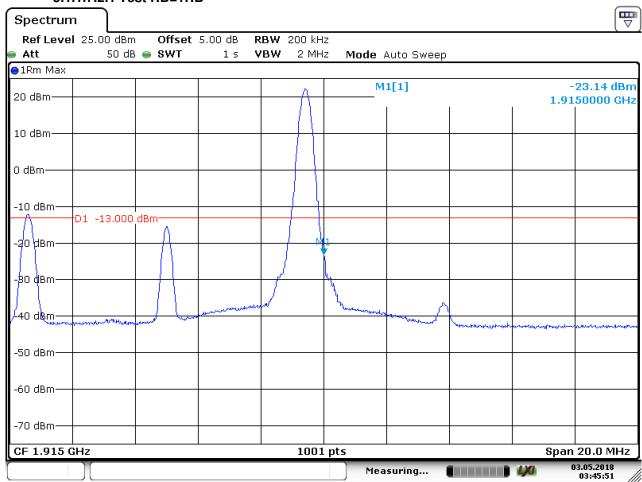


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 3.MAY.2018 03:45:51



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5.1.1.7.2.2 Test RB=50RB



Date: 3.MAY.2018 03:45:31

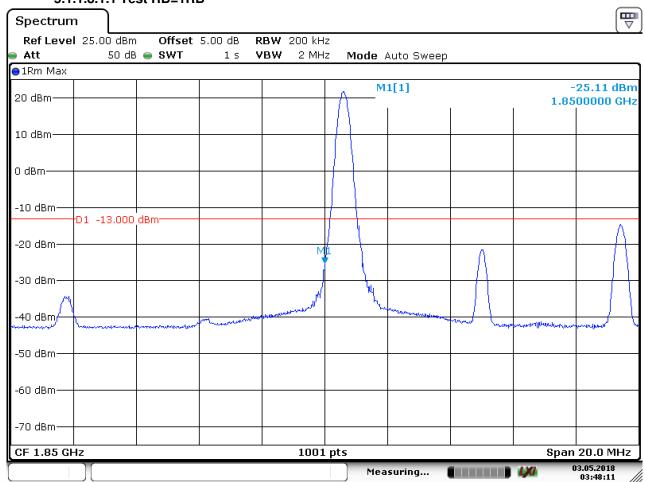


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5.1.1.8 Test Mode = LTE/TM2 10MHz 5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



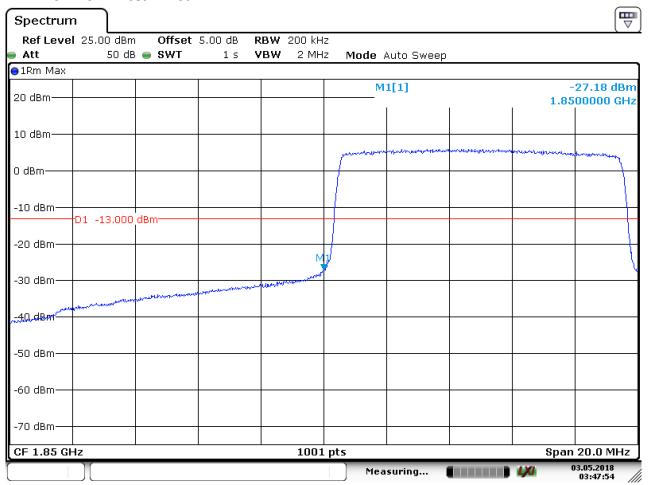
Date: 3.MAY.2018 03:48:12



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5.1.1.8.1.2 Test RB=50RB



Date: 3.MAY.2018 03:47:55

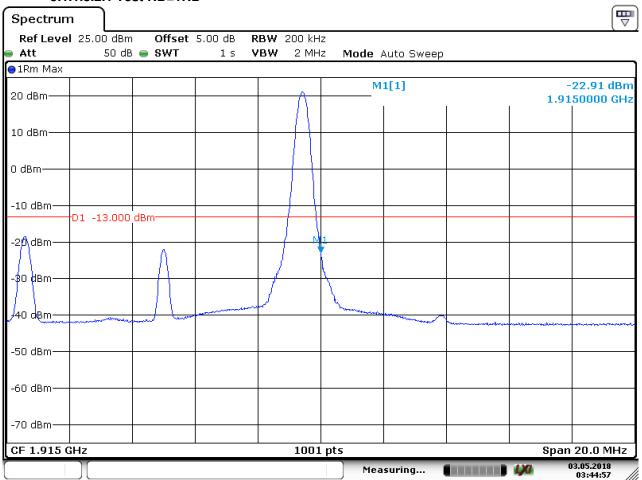


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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



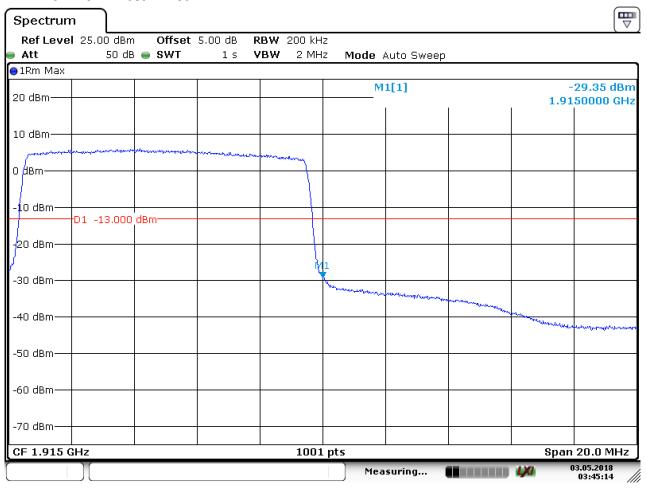
Date: 3.MAY.2018 03:44:56



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5.1.1.8.2.2 Test RB=50RB



Date: 3.MAY.2018 03:45:14

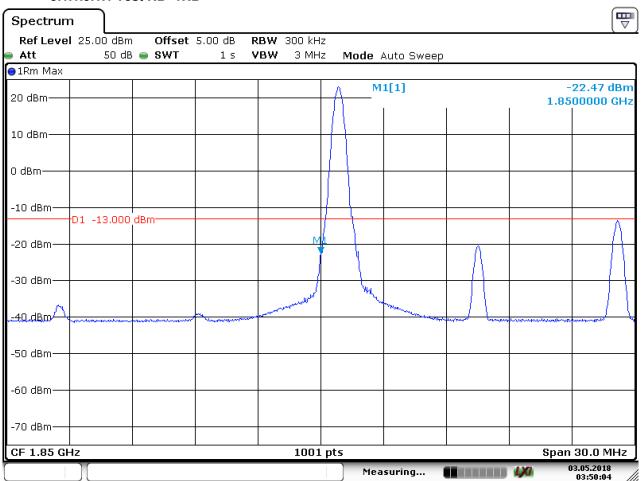


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5.1.1.9 Test Mode = LTE/TM1 15MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



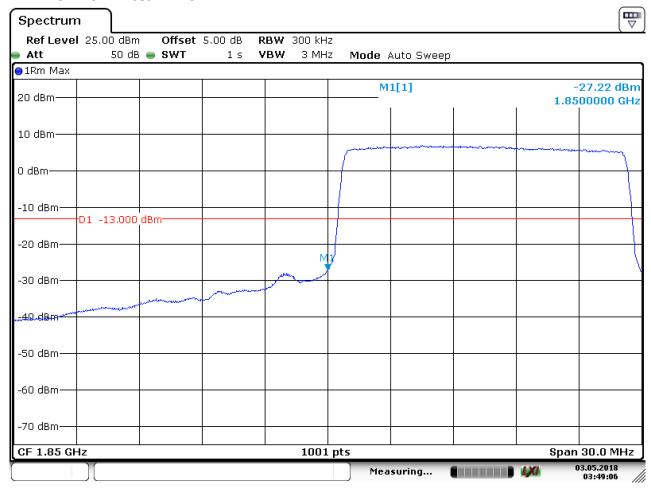
Date: 3.MAY.2018 03:50:04



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5.1.1.9.1.2 Test RB=75RB



Date: 3.MAY.2018 03:49:06

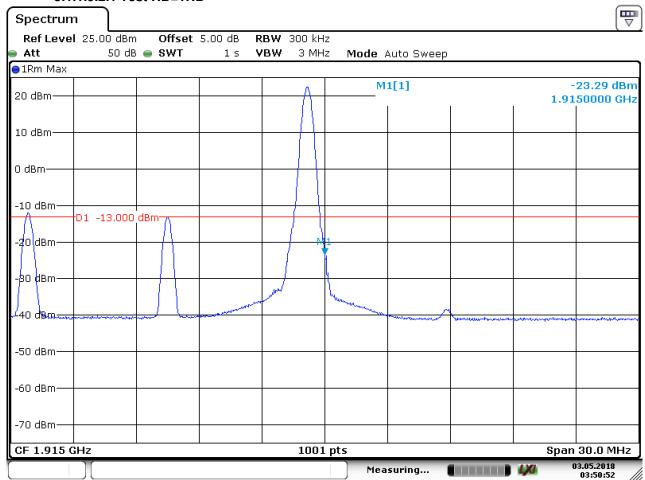


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5.1.1.9.2 est Channel = HCH

5.1.1.9.2.1 Test RB=1RB



Date: 3.MAY.2018 03:50:53



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5.1.1.9.2.2 Test RB=75RB



Date: 3.MAY.2018 03:51:44

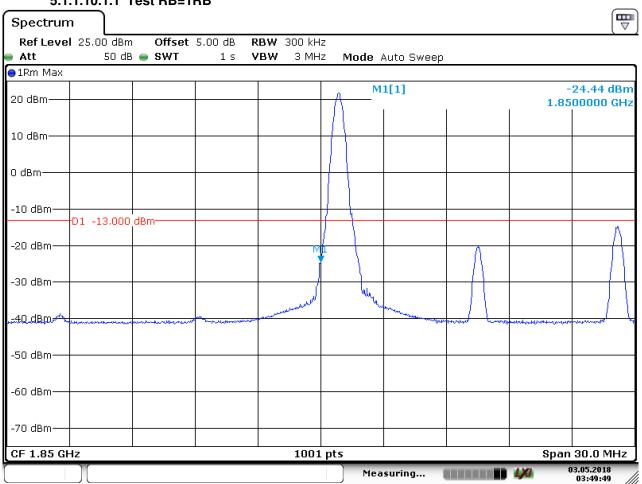


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5.1.1.10 Test Mode = LTE/TM2 15MHz 5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 3.MAY.2018 03:49:49



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5.1.1.10.1.2 Test RB=75RB



Date: 3.MAY.2018 03:49:32

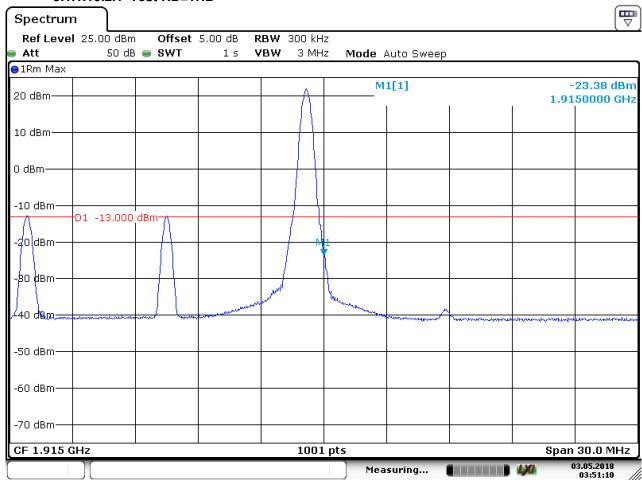


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5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



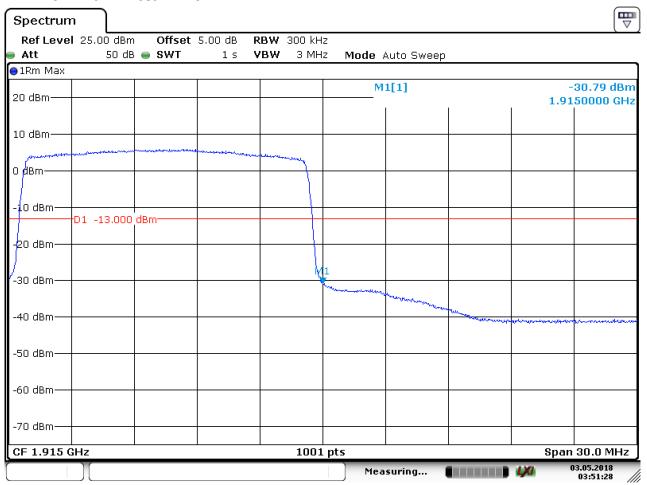
Date: 3.MAY.2018 03:51:10



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5.1.1.10.2.2 Test RB=75RB



Date: 3.MAY.2018 03:51:28

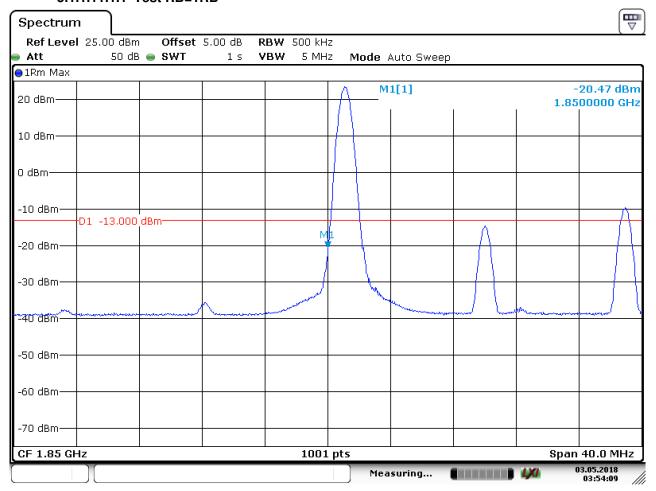


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5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



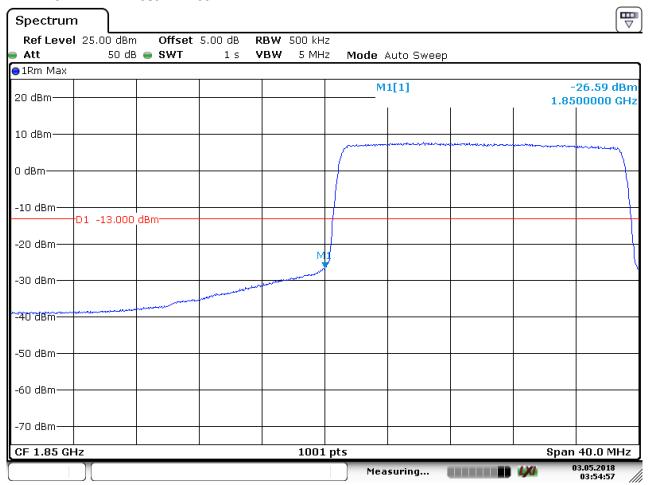
Date: 3.MAY.2018 03:54:10



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5.1.1.11.1.2 Test RB=100RB



Date: 3.MAY.2018 03:54:58

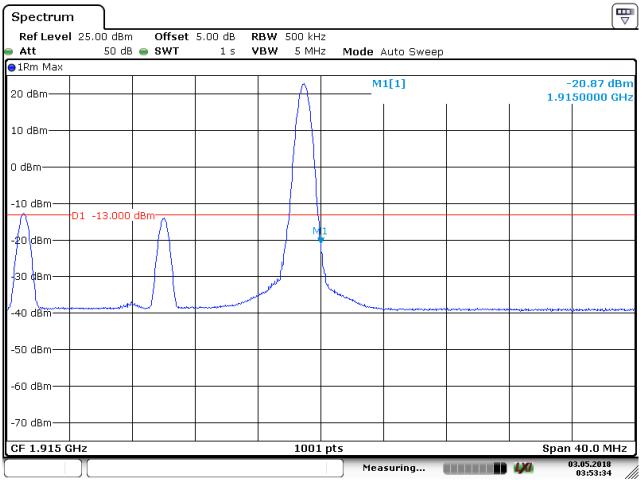


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5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



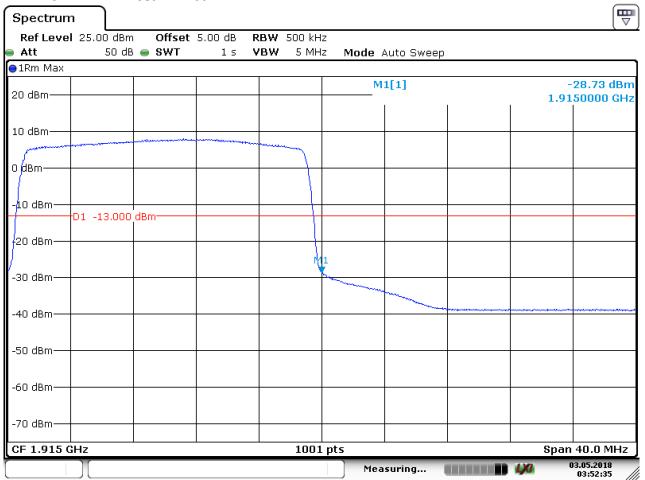
Date: 3.MAY.2018 03:53:34



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5.1.1.11.2.2 Test RB=100RB



Date: 3.MAY.2018 03:52:36

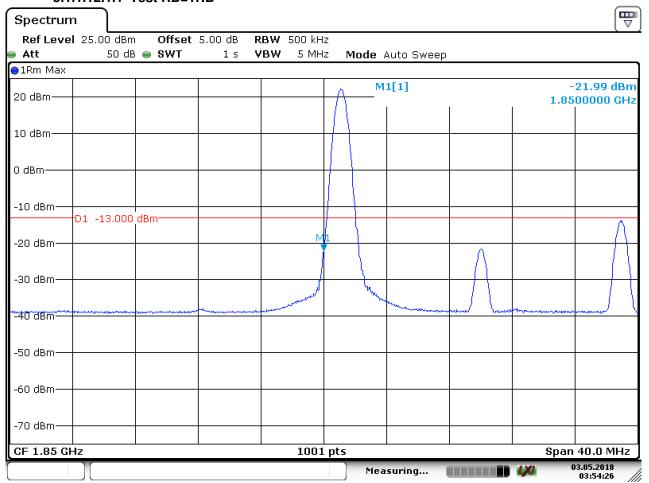


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5.1.1.12 Test Mode = LTE/TM2 20MHz 5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



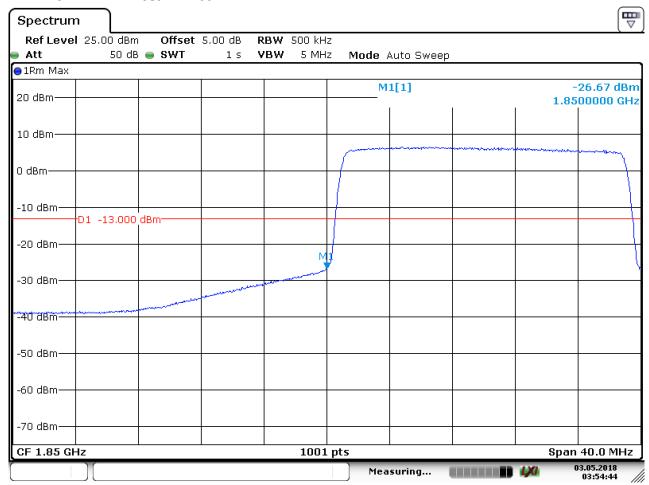
Date: 3.MAY.2018 03:54:27



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5.1.1.12.1.2 Test RB=100RB



Date: 3.MAY.2018 03:54:44

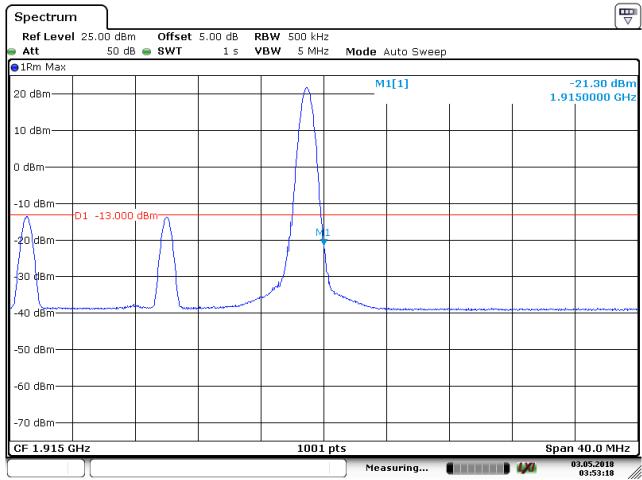


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5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



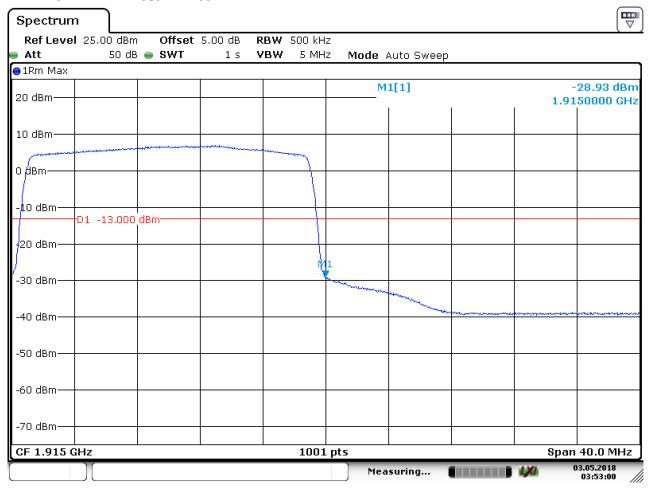
Date: 3.MAY.2018 03:53:19



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5.1.1.12.2.2 Test RB=100RB



Date: 3.MAY.2018 03:53:00



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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.

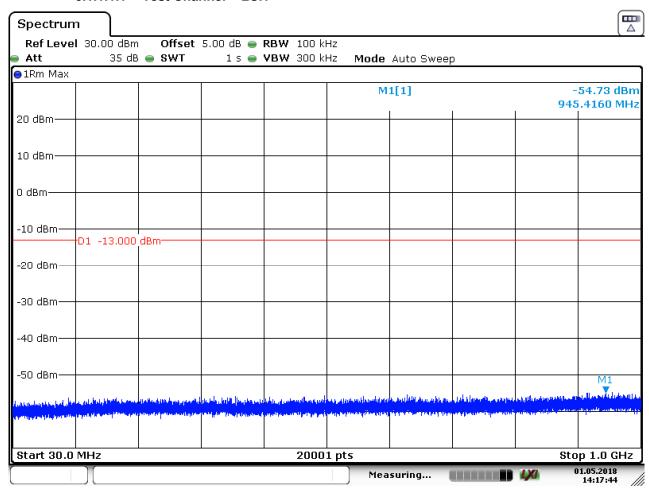
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band25

6.1.1.1 Test Mode = LTE / TM1 20MHz RB1#0

6.1.1.1.1 Test Channel = LCH

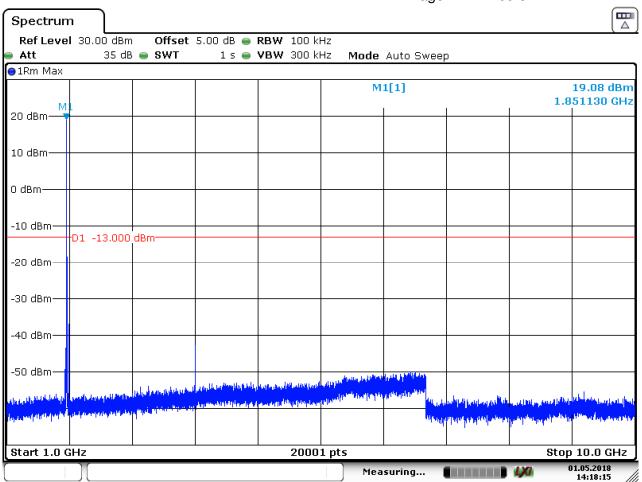


Date: 1.MAY.2018 14:17:45



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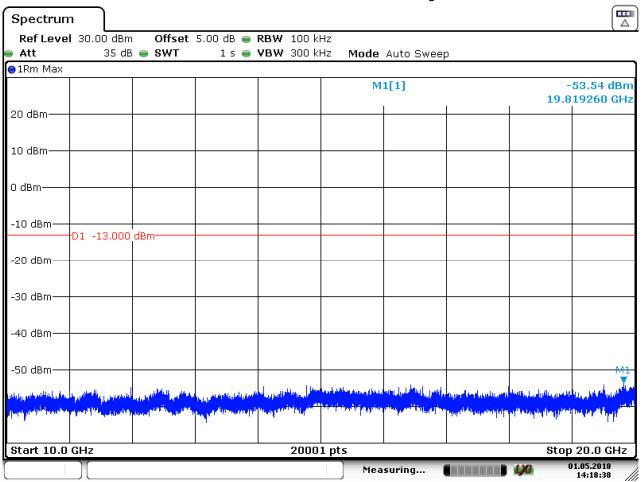
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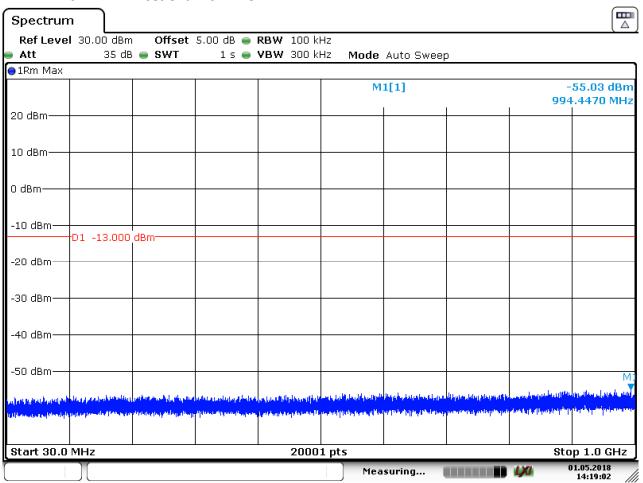




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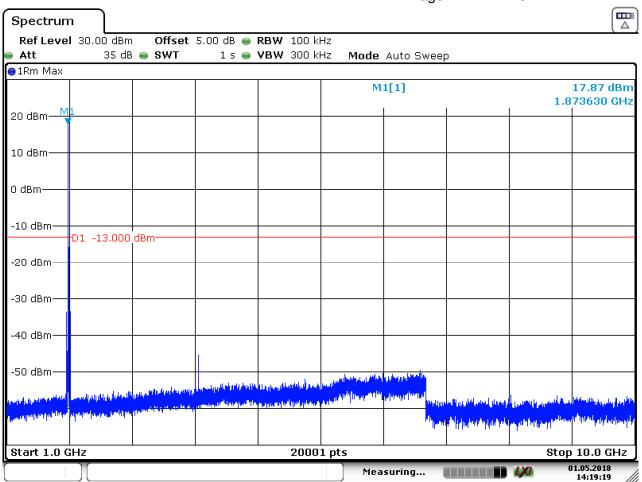
6.1.1.1.2 Test Channel = MCH





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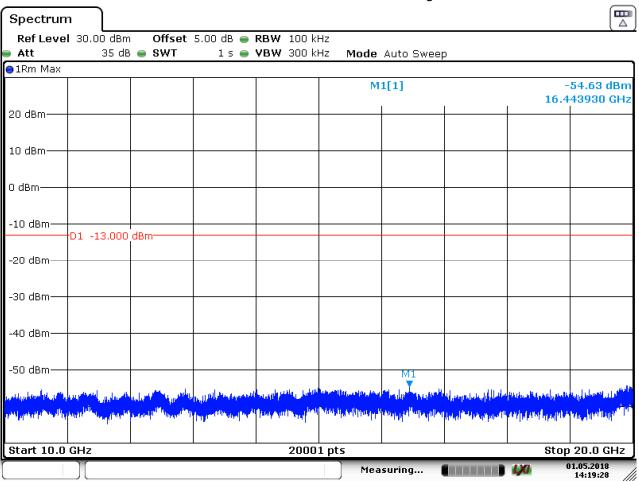
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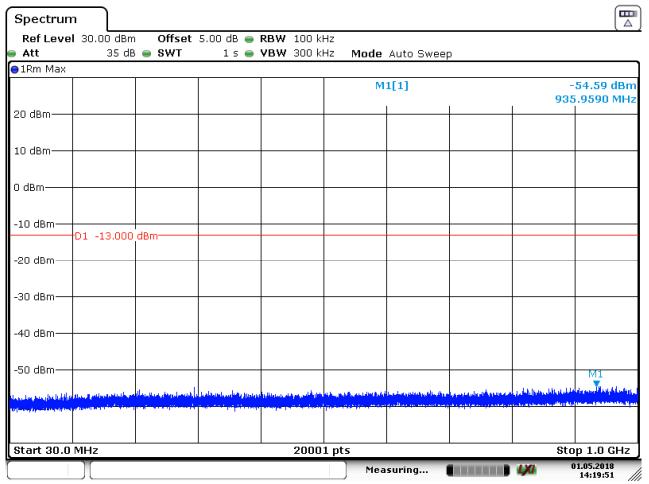




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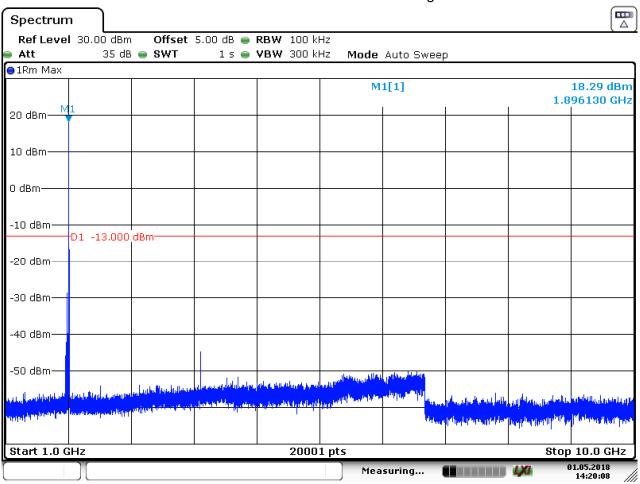
6.1.1.1.3 Test Channel = HCH





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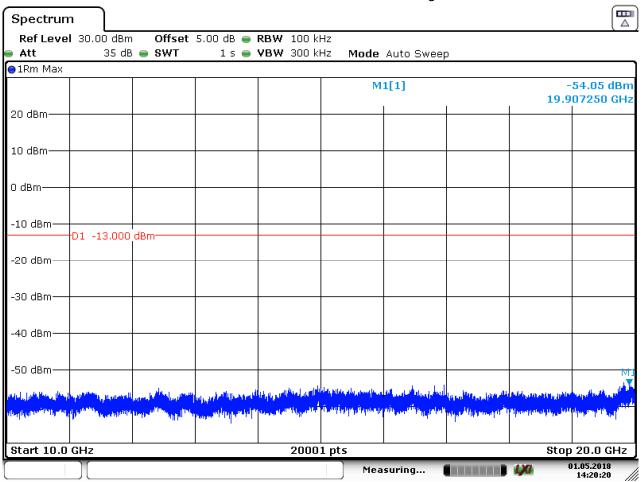
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band25

7.1.1.1 Test Mode =LTE/TM1 20MHz RB1#0

7.1.1.1.1 Test Channel = LCH

7.1.1.1.1 Test Chainer = LCh						
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization		
72.850000	-77.49	-13.00	64.49	Vertical		
144.000000	-70.78	-13.00	57.78	Vertical		
288.000000	-76.40	-13.00	63.40	Vertical		
3702.000000	-52.91	-13.00	39.91	Vertical		
7404.400000	-60.58	-13.00	47.58	Vertical		
9255.600000	-55.79	-13.00	42.79	Vertical		
62.750000	-77.85	-13.00	64.85	Horizontal		
144.000000	-75.77	-13.00	62.77	Horizontal		
3702.000000	-54.27	-13.00	41.27	Horizontal		
5553.200000	-65.61	-13.00	52.61	Horizontal		
7404.400000	-55.08	-13.00	42.08	Horizontal		
9255.600000	-45.76	-13.00	32.76	Horizontal		

7.1.1.1.2 Test Channel = MCH

7.1.1.1.2	rest Chamber = MC	<i>7</i> 11		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
72.050000	-77.14	-13.00	64.14	Vertical
144.000000	-69.59	-13.00	56.59	Vertical
288.050000	-78.61	-13.00	65.61	Vertical
3746.850000	-58.38	-13.00	45.38	Vertical
7494.100000	-60.28	-13.00	47.28	Vertical
9368.050000	-61.49	-13.00	48.49	Vertical
62.550000	-78.30	-13.00	65.30	Horizontal
144.000000	-75.68	-13.00	62.68	Horizontal
3746.850000	-57.71	-13.00	44.71	Horizontal
5620.800000	-64.32	-13.00	51.32	Horizontal
7494.425000	-54.79	-13.00	41.79	Horizontal
9368.050000	-53.23	-13.00	40.23	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
71.950000	-76.90	-13.00	63.90	Vertical
144.000000	-71.05	-13.00	58.05	Vertical
3792.025000	-59.10	-13.00	46.10	Vertical
5688.075000	-65.22	-13.00	52.22	Vertical
7584.125000	-59.40	-13.00	46.40	Vertical
9480.500000	-60.86	-13.00	47.86	Vertical
62.350000	-78.10	-13.00	65.10	Horizontal
144.000000	-72.76	-13.00	59.76	Horizontal
3792.025000	-58.58	-13.00	45.58	Horizontal
5688.075000	-61.76	-13.00	48.76	Horizontal
7584.450000	-56.91	-13.00	43.91	Horizontal
9480.500000	-60.54	-13.00	47.54	Horizontal

NOTE:

- 1) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 2) We have tested all modulation and all Bandwidth, but only the worst case data presented in this report



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8 Frequency Stability

8.1 Frequency Error VS. Voltage

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
		LCH		VL	-7.30	-0.00392	PASS
			TN	VN	-3.88	-0.00208	PASS
				VH	-5.17	-0.00278	PASS
			TN	VL	8.97	0.00477	PASS
	LTE/TM1 20MHz	MCH		VN	-7.84	-0.00416	PASS
				VH	-9.87	-0.00524	PASS
				VL	6.29	0.00330	PASS
		HCH	TN	VN	0.27	0.00014	PASS
				VH	-2.75	-0.00145	PASS
	LTE/TM2 20MHz	LCH	TN	VL	-4.65	-0.00250	PASS
				VN	-8.37	-0.00450	PASS
				VH	-8.57	-0.00461	PASS
		MCH	TN	VL	-0.09	-0.00005	PASS
LTEband25				VN	-4.16	-0.00221	PASS
				VH	-1.24	-0.00066	PASS
		нсн	TN	VL	8.74	0.00459	PASS
				VN	8.39	0.00440	PASS
				VH	-5.34	-0.00281	PASS
	LTE/TM3 20MHz	LCH	TN	VL	0.97	0.00052	PASS
				VN	-8.81	-0.00474	PASS
				VH	4.45	0.00239	PASS
		MCH	TN	VL	-0.57	-0.00030	PASS
				VN	-8.09	-0.00430	PASS
				VH	-0.82	-0.00044	PASS
		НСН	TN	VL	-7.23	-0.00380	PASS
				VN	9.38	0.00493	PASS
				VH	6.34	0.00333	PASS



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8.2 Frequency Error VS. Temperature

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			VN	-30	4.99	0.00268	PASS
				-20	-0.69	-0.00037	PASS
				-10	7.97	0.00429	PASS
				0	7.90	0.00425	PASS
		LCH		10	2.72	0.00146	PASS
				20	7.30	0.00393	PASS
				30	-8.84	-0.00475	PASS
				40	7.09	0.00381	PASS
				50	8.21	0.00441	PASS
	LTE/TM1 20MHz	МСН	VN	-30	6.61	0.00351	PASS
				-20	-9.89	-0.00525	PASS
				-10	0.07	0.00004	PASS
				0	-9.54	-0.00507	PASS
LTEband25				10	-8.17	-0.00434	PASS
				20	9.93	0.00527	PASS
				30	-1.65	-0.00088	PASS
				40	-3.41	-0.00181	PASS
				50	-0.11	-0.00006	PASS
				-30	7.66	0.00402	PASS
				-20	-5.91	-0.00310	PASS
				-10	-5.60	-0.00294	PASS
				0	-8.13	-0.00427	PASS
		HCH	VN	10	-6.91	-0.00363	PASS
				20	-6.61	-0.00347	PASS
				30	9.18	0.00482	PASS
				40	-9.21	-0.00483	PASS
				50	1.26	0.00066	PASS



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					raye.	121 01 121	
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-3.82	-0.00205	PASS
				-20	-5.66	-0.00304	PASS
				-10	-2.37	-0.00127	PASS
				0	-0.39	-0.00021	PASS
		LCH	VN	10	-1.06	-0.00057	PASS
				20	-2.85	-0.00153	PASS
				30	-8.37	-0.00450	PASS
				40	3.38	0.00181	PASS
				50	-9.53	-0.00512	PASS
	LTE/TM2 20MHz			-30	-8.00	-0.00425	PASS
		МСН	VN	-20	6.47	0.00344	PASS
				-10	8.14	0.00433	PASS
				0	-9.32	-0.00495	PASS
LTEband25				10	-8.79	-0.00467	PASS
				20	-5.89	-0.00313	PASS
				30	2.59	0.00138	PASS
				40	-3.50	-0.00186	PASS
				50	-3.57	-0.00190	PASS
			VN	-30	4.82	0.00253	PASS
				-20	1.98	0.00104	PASS
				-10	-3.05	-0.00160	PASS
		НСН		0	-3.21	-0.00168	PASS
				10	7.89	0.00414	PASS
				20	1.83	0.00096	PASS
				30	-0.69	-0.00036	PASS
				40	1.74	0.00091	PASS
				50	-7.84	-0.00411	PASS

The End