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Appendix B

E-UTRA Band 4



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Effective (Isotropic) Radiated Power Output Data 1

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 4										
Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict		
				RB1#0	23.15	19.95	30.00	PASS		
				RB1#2	23.39	20.19	30.00	PASS		
				RB1#5	23.22	20.02	30.00	PASS		
			LCH	RB3#0	23.33	20.13	30.00	PASS		
				RB3#2	23.3	20.1	30.00	PASS		
				RB3#3	23.19	19.99	30.00	PASS		
				RB6#0	22.25	19.05	30.00	PASS		
				RB1#0	23.28	20.08	30.00	PASS		
				RB1#2	23.24	20.04	30.00	PASS		
				RB1#5	23.31	20.11	30.00	PASS		
BAND4	LTE/TM1	1.4M	MCH	RB3#0	23.3	20.1	30.00	PASS		
				RB3#2	23.31	20.11	30.00	PASS		
				RB3#3	23.27	20.07	30.00	PASS		
				RB6#0	22.34	19.14	30.00	PASS		
				RB1#0	23.3	20.1	30.00	PASS		
				RB1#2	23.32	20.12	30.00	PASS		
				RB1#5	23.17	19.97	30.00	PASS		
		HCH	RB3#0	23.27	20.07	30.00	PASS			
			RB3#2	23.5	20.3	30.00	PASS			
			RB3#3	23.43	20.23	30.00	PASS			
				RB6#0	22.46	19.26	30.00	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	22.47	19.27	30.00	PASS
				RB1#2	22.45	19.25	30.00	PASS
				RB1#5	22.03	18.83	30.00	PASS
			LCH	RB3#0	22.24	19.04	30.00	PASS
				RB3#2	22.28	19.08	30.00	PASS
				RB3#3	22.16	18.96	30.00	PASS
				RB6#0	21.48	18.28	30.00	PASS
				RB1#0	22.07	18.87	30.00	PASS
				RB1#2	22.35	19.15	30.00	PASS
				RB1#5	22.56	19.36	30.00	PASS
BAND4	LTE/TM2	1.4M	MCH	RB3#0	22.29	19.09	30.00	PASS
		RB3#2 22.26 19.0	19.06	30.00	PASS			
				RB3#3	22.32	19.12	30.00	PASS
				RB6#0	21.34	18.14	30.00	PASS
				RB1#0	22.54	19.34	30.00	PASS
				RB1#2	22.51	19.31	30.00	PASS
				RB1#5	22.42	19.22	30.00	PASS
			HCH	RB3#0	22.26	19.06	30.00	PASS
				RB3#2	22.37	19.17	30.00	PASS
				RB3#3	22.17	18.97	30.00	PASS
				RB6#0	21.53	18.33	30.00	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	23.31	20.11	30.00	PASS
				RB1#7	23.36	20.16	30.00	PASS
				RB1#14	23.28	20.08	30.00	PASS
			LCH	RB8#0	22.32	19.12	30.00	PASS
				RB8#4	22.35	19.15	30.00	PASS
				RB8#7	22.35	19.15	30.00	PASS
				RB15#0	22.46	19.26	30.00	PASS
				RB1#0	23.33	20.13	30.00	PASS
				RB1#7	23.49	20.29	30.00	PASS
				RB1#14	23.28	20.08	30.00	PASS
BAND4	LTE/TM1	3M	MCH	RB8#0	22.41	19.21	30.00	PASS
				RB8#4	22.41	19.21	30.00	PASS
				RB8#7	22.36	19.16	30.00	PASS
				RB15#0	22.36	19.16	30.00	PASS
				RB1#0	23.34	20.14	30.00	PASS
				RB1#7	23.47	20.27	30.00	PASS
				RB1#14	23.36	20.16	30.00	PASS
			HCH	RB8#0	22.46	19.26	30.00	PASS
				RB8#4	22.43	19.23	30.00	PASS
				RB8#7	22.34	19.14	30.00	PASS
				RB15#0	22.46	19.26	30.00	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	22.13	18.93	30.00	PASS
				RB1#7	22.59	19.39	30.00	PASS
				RB1#14	22.44	19.24	30.00	PASS
			LCH	RB8#0	21.36	18.16	30.00	PASS
				RB8#4	21.35	18.15	30.00	PASS
				RB8#7	21.3	18.1	30.00	PASS
				RB15#0	21.39	18.19	30.00	PASS
				RB1#0	22.45	19.25	30.00	PASS
				RB1#7	23.03	19.83	30.00	PASS
				RB1#14 22.27	19.07	30.00	PASS	
BAND4	LTE/TM2	3M	MCH	RB8#0	21.43	18.23	30.00	PASS
				DD0#7	18.17	30.00	PASS	
					18.2	30.00	PASS	
				RB15#0	21.33	18.13	30.00	PASS
				RB1#0	22.34	19.14	30.00	PASS
				RB1#7	22.47	19.27	30.00	PASS
				RB1#14	22.5	19.3	30.00	PASS
			HCH	RB8#0	21.4	18.2	30.00	PASS
			RB8#4	21.47	18.27	30.00	PASS	
			RB8#7	21.54	18.34	30.00	PASS	
				RB15#0	21.37	18.17	30.00	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	23.2	20	30.00	PASS														
				RB1#13	23.3	20.1	30.00	PASS														
				RB1#24	23.18	19.98	30.00	PASS														
			LCH	RB12#0	22.25	19.05	30.00	PASS														
				RB12#6	22.35	19.15	30.00	PASS														
				RB12#13	22.28	19.08	30.00	PASS														
				RB25#0	22.27	19.07	30.00	PASS														
				RB1#0	23.17	19.97	30.00	PASS														
				RB1#13	23.36	20.16	30.00	PASS														
				RB1#24	23.24	20.04	30.00	PASS														
BAND4	LTE/TM1	5M	MCH	RB12#0	22.3	19.1	30.00	PASS														
				RB12#6	22.39	19.19	30.00	PASS														
				RB12#13	22.35	19.15	30.00	PASS														
				RB25#0	22.35	19.15	30.00	PASS														
				RB1#0	23.1	19.9	30.00	PASS														
																		RB1#13	23.36	20.16	30.00	PASS
				RB1#24	23.26	20.06	30.00	PASS														
		HCH	RB12#0	22.32	19.12	30.00	PASS															
				_				_						RB12#6	22.35	19.15	30.00	PASS				
																					RB12#13	22.34
				RB25#0	22.45	19.25	30.00	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	22.47	19.27	30.00	PASS
				RB1#13	22.44	19.24	30.00	PASS
				RB1#24	22.19	18.99	30.00	PASS
			LCH	RB12#0	21.35	18.15	30.00	PASS
				RB12#6	21.42	18.22	30.00	PASS
				RB12#13	21.41	18.21	30.00	PASS
				RB25#0	21.26	18.06	30.00	PASS
				RB1#0	22.59	19.39	30.00	PASS
				RB1#13 22.54 RB1#24 22.23	22.54	19.34	30.00	PASS
					19.03	30.00	PASS	
BAND4	LTE/TM2	5M	DD40//0	RB12#0	21.33	18.13	30.00	PASS
				18.25	30.00	PASS		
				RB12#13	21.48	18.28	30.00	PASS
				RB25#0	21.29	18.09	30.00	PASS
				RB1#0	22.55	19.35	30.00	PASS
				RB1#13	22.35	19.15	30.00	PASS
				RB1#24	22.59	19.39	30.00	PASS
			HCH	RB12#0	21.38	18.18	30.00	PASS
				RB12#6	21.52	18.32	30.00	PASS
				RB12#13	21.45	18.25	30.00	PASS
				RB25#0	21.44	18.24	30.00	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	23.32	20.12	30.00	PASS
				RB1#25	23.31	20.11	30.00	PASS
				RB1#49	23.24	20.04	30.00	PASS
			LCH	RB25#0	22.34	19.14	30.00	PASS
				RB25#13	22.43	19.23	30.00	PASS
				RB25#25	22.38	19.18	30.00	PASS
				RB50#0	22.32	19.12	30.00	PASS
				RB1#0	23.26	20.06	30.00	PASS
				RB1#25	23.48	20.28	30.00	PASS
				RB1#49	23.22	20.02	30.00	PASS
BAND4	LTE/TM1	10M	MCH	RB25#0	22.55	19.35	30.00	PASS
		RB25#13 22.47 19.2	19.27	30.00	PASS			
				RB25#25	5 22.32 19.12	19.12	30.00	PASS
				RB50#0	22.41	19.21	30.00	PASS
				RB1#0	23.48	20.28	30.00	PASS
				RB1#25	23.34	20.14	30.00	PASS
				RB1#49	23.34	20.14	30.00	PASS
			НСН	RB25#0	22.47	19.27	30.00	PASS
				RB25#13	22.39	19.19	30.00	PASS
				RB25#25	22.44	19.24	30.00	PASS
				RB50#0	22.51	19.31	30.00	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	22.68	19.48	30.00	PASS
				RB1#25	22.62	19.42	30.00	PASS
				RB1#49	22.22	19.02	30.00	PASS
			LCH	RB25#0	21.25	18.05	30.00	PASS
				RB25#13	21.43	18.23	30.00	PASS
				RB25#25	21.36	18.16	30.00	PASS
				RB50#0	21.37	18.17	30.00	PASS
				RB1#0	22.67	19.47	30.00	PASS
				RB1#25	22.52	19.32	30.00	PASS
				RB1#49 22.18	18.98	30.00	PASS	
BAND4	LTE/TM2	10M	DD05//40	RB25#0	21.34	18.14	30.00	PASS
				18.2	30.00	PASS		
				DD05#05	18.08	30.00	PASS	
				RB50#0	21.33	18.13	30.00	PASS
				RB1#0	22.65	19.45	30.00	PASS
				RB1#25	22.55	19.35	30.00	PASS
				RB1#49	22.66	19.46	30.00	PASS
		HCH	RB25#0	21.4	18.2	30.00	PASS	
			RB25#13	21.4	18.2	30.00	PASS	
			RB25#25	21.35	18.15	30.00	PASS	
				RB50#0	21.4	18.2	30.00	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	23.25	20.05	30.00	PASS
				RB1#38	23.26	20.06	30.00	PASS
				RB1#74 23.18	19.98	30.00	PASS	
			LCH	RB36#0	22.46	19.26	30.00	PASS
				RB36#18	22.51	19.31	30.00	PASS
				RB36#39	22.35	19.15	30.00	PASS
				RB75#0	22.36	19.16	30.00	PASS
				RB1#0	23.2	20	30.00	PASS
				RB1#38	23.42	20.22	30.00	PASS
				RB1#74 23.35	20.15	30.00	PASS	
BAND4	LTE/TM1	15M	MCH	RB36#0	22.41	19.21	30.00	PASS
				RB36#18	22.35	19.15	30.00	PASS
				RB36#39		19.4	30.00	PASS
				RB75#0	22.45	19.25	30.00	PASS
				RB1#0	23.42	20.22	30.00	PASS
				RB1#38	23.49	20.29	30.00	PASS
				RB1#74	23.36	20.16	30.00	PASS
			HCH	RB36#0	22.44	19.24	30.00	PASS
				RB36#18	22.44	19.24	30.00	PASS
				RB36#39	22.46	19.26	30.00	PASS
				RB75#0	22.54	19.34	30.00	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	22.66	19.46	30.00	PASS
				RB1#38	22.74	19.54	30.00	PASS
				RB1#74	22.54	19.34	30.00	PASS
			LCH	RB36#0	RB36#0 21.41	18.21	30.00	PASS
				RB36#18	21.47	18.27	30.00	PASS
				RB36#39	21.31	18.11	30.00	PASS
				RB75#0	21.38	18.18	30.00	PASS
				RB1#0	22.65	19.45	30.00	PASS
				RB1#38 22.75 RB1#74 22.52	19.55	30.00	PASS	
					19.32	30.00	PASS	
BAND4	LTE/TM2	2 15M MCH	MCH	RB36#0	21.4	18.2	30.00	PASS
			RB36#18	21.43	18.23	30.00	PASS	
				RB36#39	21.45	18.25	30.00	PASS
				RB75#0	21.48	18.28	30.00	PASS
				RB1#0	22.42	19.22	30.00	PASS
				RB1#38	22.36	19.16	30.00	PASS
				RB1#74	22.31	19.11	30.00	PASS
			HCH	RB36#0	21.54	18.34	30.00	PASS
			RB36#18	21.45	18.25	30.00	PASS	
				RB36#39	21.39	18.19	30.00	PASS
				RB75#0	21.39	18.19	30.00	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	23.24	20.04	30.00	PASS
				RB1#50	23.37	20.17	30.00	PASS
				RB1#99	23.13	19.93	30.00	PASS
			LCH	RB50#0	22.62	19.42	30.00	PASS
				RB50#25	22.47	19.27	30.00	PASS
				RB50#50	22.42	19.22	30.00	PASS
				RB100#0	22.5	19.3	30.00	PASS
				RB1#0	23.18	19.98	30.00	PASS
				RB1#50	23.52	20.32	30.00	PASS
				RB1#99 23.12	19.92	30.00	PASS	
BAND4	LTE/TM1	M1 20M	RB50#25 22.49 19	RB50#0	22.69	19.49	30.00	PASS
				RB50#25	22.49	19.29	30.00	PASS
				19.38	30.00	PASS		
				RB100#0	22.56	19.36	30.00	PASS
				RB1#0	23.13	19.93	30.00	PASS
				RB1#50	23.53	20.33	30.00	PASS
				RB1#99	23.13	19.93	30.00	PASS
			НСН	RB50#0	22.55	19.35	30.00	PASS
				RB50#25	22.46	19.26	30.00	PASS
				RB50#50	22.55	19.35	30.00	PASS
				RB100#0	22.57	19.37	30.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
	LTE/TM2	TE/TM2 20M	LCH	RB1#0	22.55	19.35	30.00	PASS
				RB1#50	22.44	19.24	30.00	PASS
				RB1#99	21.98	18.78	30.00	PASS
				RB50#0	21.53	18.33	30.00	PASS
				RB50#25	21.4	18.2	30.00	PASS
				RB50#50	21.39	18.19	30.00	PASS
				RB100#0	21.43	18.23	30.00	PASS
			MCH	RB1#0	22.52	19.32	30.00	PASS
				RB1#50	22.89	19.69	30.00	PASS
				RB1#99	22.15	18.95	30.00	PASS
BAND4				RB50#0	21.62	18.42	30.00	PASS
				RB50#25	21.55	18.35	30.00	PASS
				RB50#50	21.43	18.23	30.00	PASS
				RB100#0	21.52	18.32	30.00	PASS
			нсн	RB1#0	22.59	19.39	30.00	PASS
				RB1#50	22.69	19.49	30.00	PASS
				RB1#99	22.31	19.11	30.00	PASS
				RB50#0	21.51	18.31	30.00	PASS
				RB50#25	21.53	18.33	30.00	PASS
				RB50#50	21.39	18.19	30.00	PASS
				RB100#0	21.43	18.23	30.00	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 4	TM1/20M	LCH	4.55	13	PASS
		MCH	4.93	13	PASS
		HCH	4.78	13	PASS
	TM2/20M	LCH	5.45	13	PASS
		MCH	5.77	13	PASS
		HCH	5.62	13	PASS

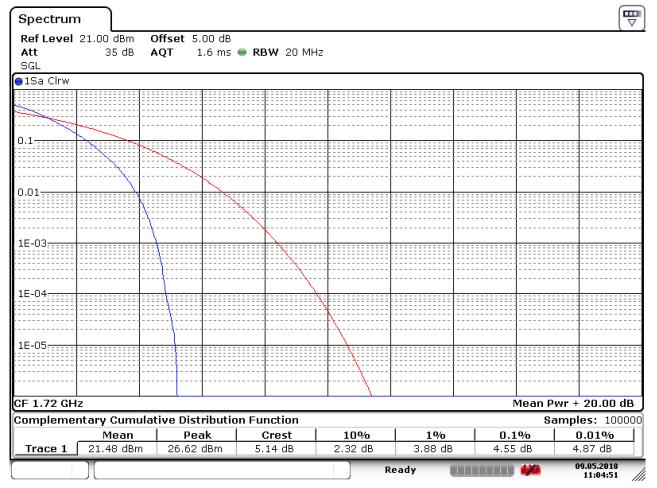
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band4

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

2.1.1.1.1 Test Channel = LCH



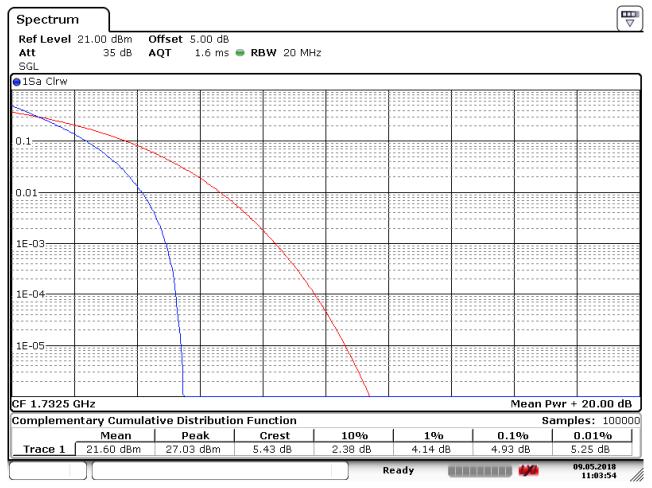
Date: 9.MAY.2018 11:04:51



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2.1.1.1.2 Test Channel = MCH



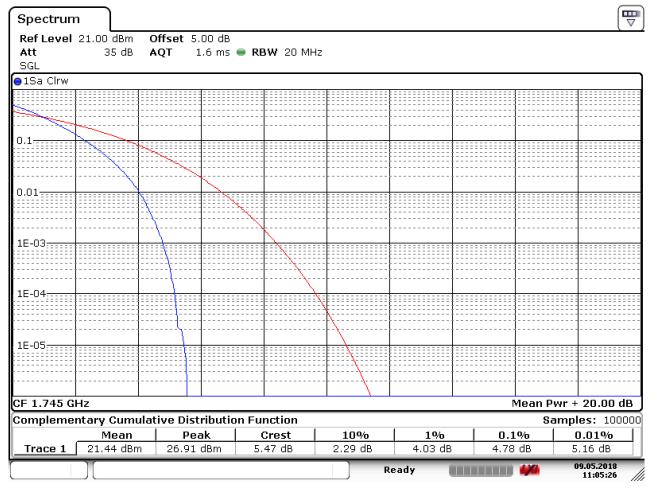
Date: 9.MAY.2018 11:03:54



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2.1.1.1.3 Test Channel = HCH



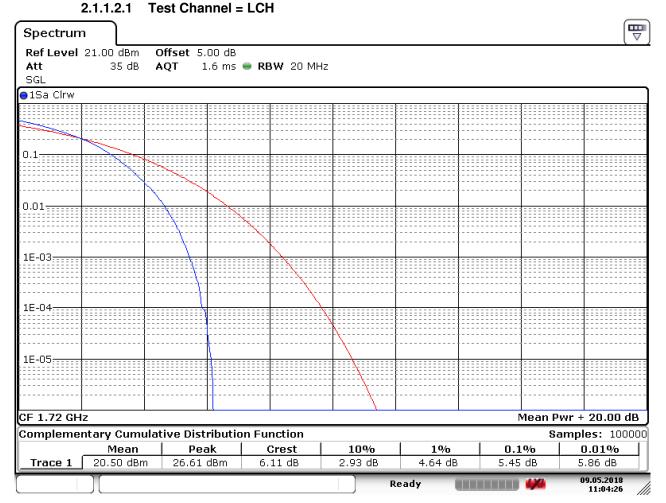
Date: 9.MAY.2018 11:05:26



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



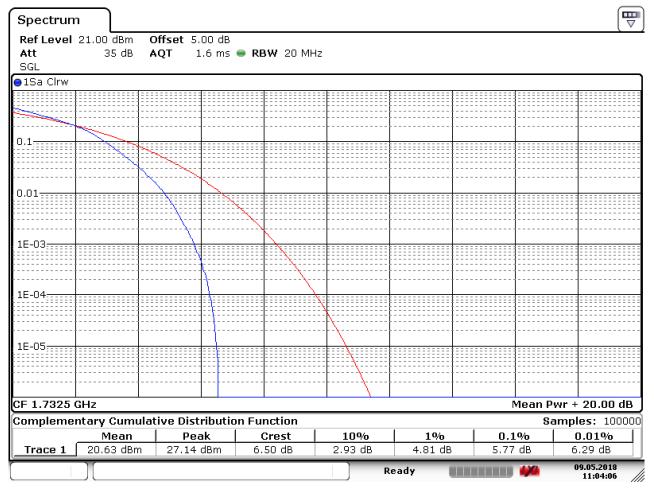
Date: 9.MAY.2018 11:04:27



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2.1.1.2.2 Test Channel = MCH



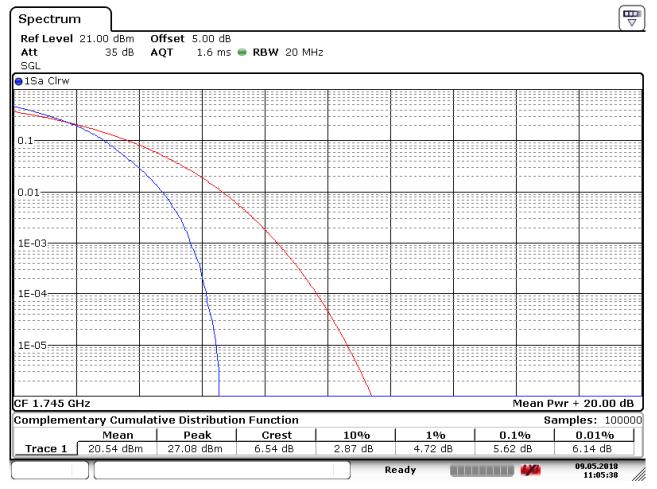
Date: 9.MAY.2018 11:04:07



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2.1.1.2.3 Test Channel = HCH



Date: 9.MAY.2018 11:05:39



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3 Modulation Characteristics

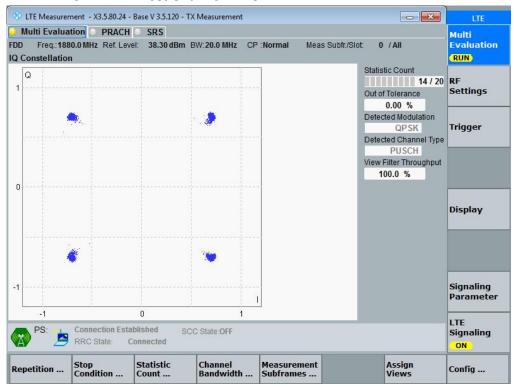
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band4

3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



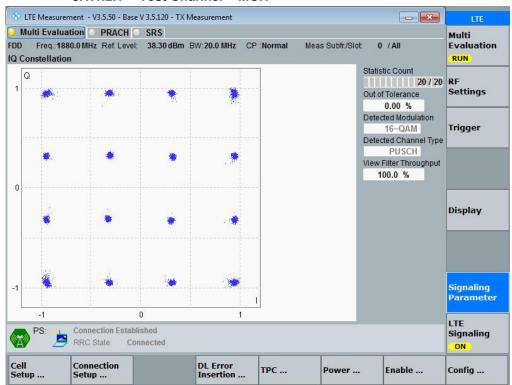


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3.1.1.2 Test Mode = LTE /TM2 20MHz

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	1.25	PASS
	TM1/1.4MHz	MCH	1.08	1.28	PASS
		HCH	1.08	1.25	PASS
		LCH	1.08	1.25	PASS
	TM2/1.4MHz	MCH	1.09	1.26	PASS
		HCH	1.08	1.25	PASS
		LCH	2.67	2.83	PASS
	TM1/3MHz	MCH	2.68	2.85	PASS
		HCH	2.68	2.84	PASS
		LCH	2.67	2.83	PASS
	TM2/3MHz	MCH	2.67	2.85	PASS
		HCH	2.68	2.85	PASS
		LCH	4.47	4.84	PASS
	TM1/5MHz	MCH	4.46	4.86	PASS
		HCH	4.47	4.90	PASS
	TM2/ 5MHz	LCH	4.50	4.91	PASS
		MCH	4.48	4.88	PASS
		HCH	4.47	4.89	PASS
Band 4		LCH	8.93	9.67	PASS
	TM1/10MHz	MCH	8.91	9.67	PASS
		HCH	8.95	9.77	PASS
		LCH	8.93	9.67	PASS
	TM2/ 10MHz	MCH	8.91	9.67	PASS
		HCH	8.93	9.61	PASS
		LCH	13.52	14.87	PASS
	TM1/ 15MHz	MCH	13.46	14.75	PASS
		HCH	13.49	14.81	PASS
		LCH	13.49	14.75	PASS
	TM2/ 15MHz	MCH	13.46	14.75	PASS
		HCH	13.49	14.69	PASS
		LCH	17.94	19.58	PASS
	TM1/20MHz	MCH	17.90	19.34	PASS
		HCH	17.90	19.26	PASS
		LCH	17.94	19.34	PASS
	TM2/ 20MHz	MCH	17.94	19.42	PASS
		HCH	17.94	19.34	PASS



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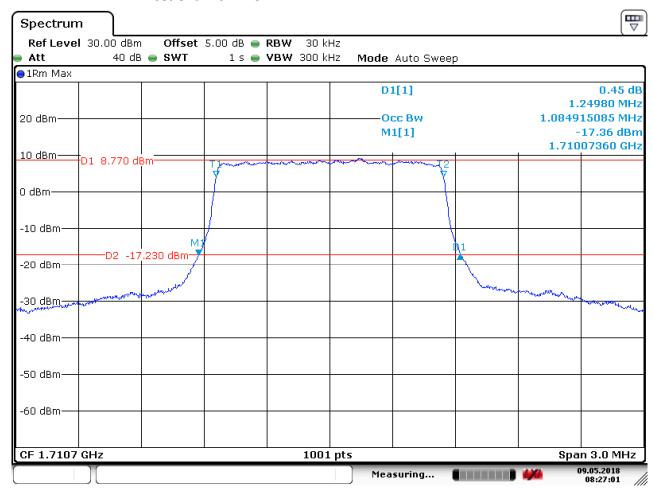
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4.1 For LTE

4.1.1 Test Band = LTE band4

4.1.1.1 Test Mode = LTE/TM1 1.4MHz

4.1.1.1.1 Test Channel = LCH

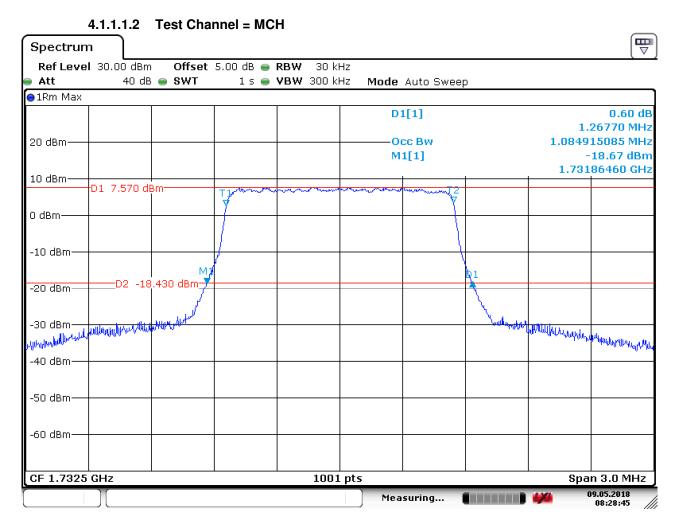


Date: 9.MAY.2018 08:27:02



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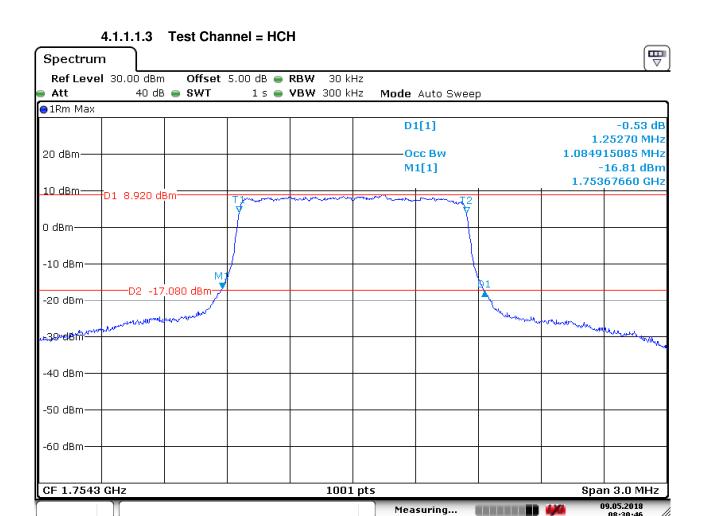


Date: 9.MAY.2018 08:28:45



Report No.: SZEM180300254201

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Date: 9.MAY.2018 08:30:46

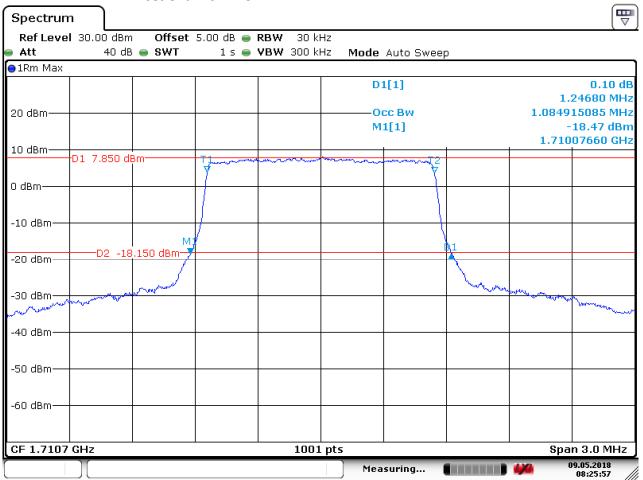


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4.1.1.2 Test Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH

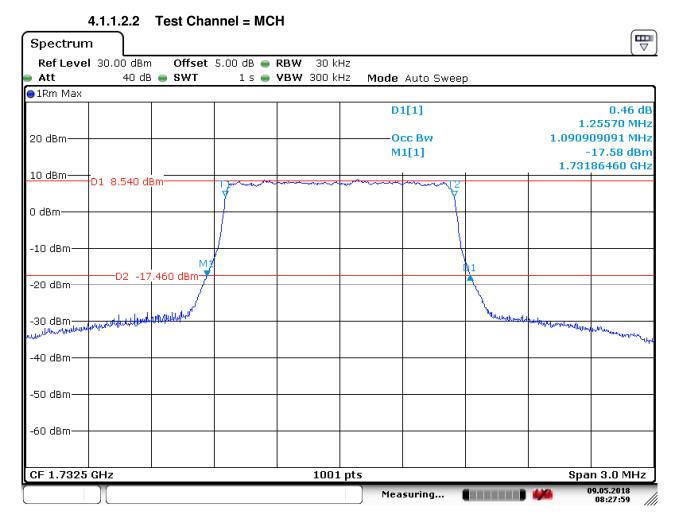


Date: 9.MAY.2018 08:25:58



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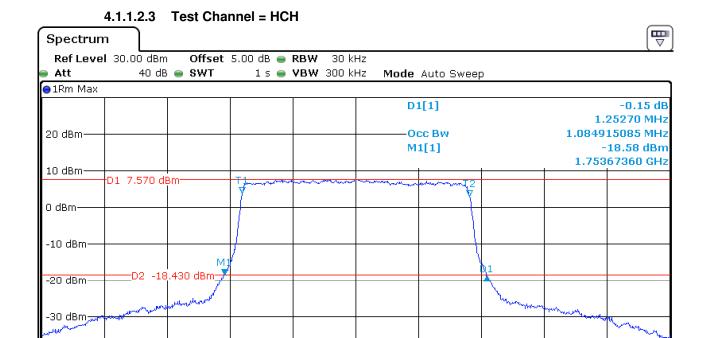
Date: 9.MAY.2018 08:27:59



Report No.: SZEM180300254201

Span 3.0 MHz 09.05.2018

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1001 pts

Measuring...

Date: 9.MAY.2018 08:30:01

CF 1.7543 GHz

-40 dBm-

-50 dBm

-60 dBm-

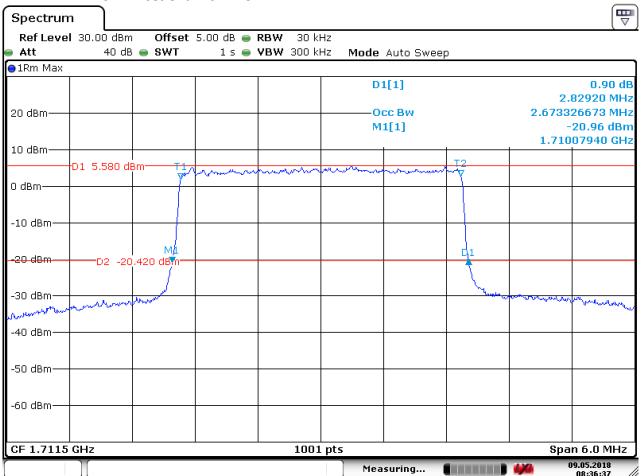


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4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH

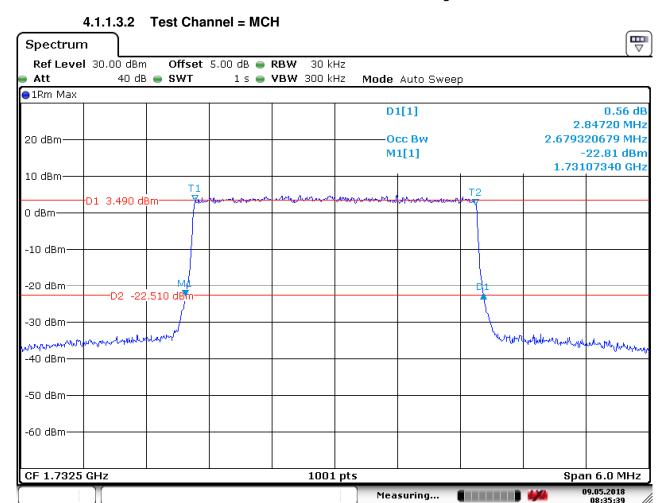


Date: 9.MAY.2018 08:36:37



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Date: 9.MAY.2018 08:35:40

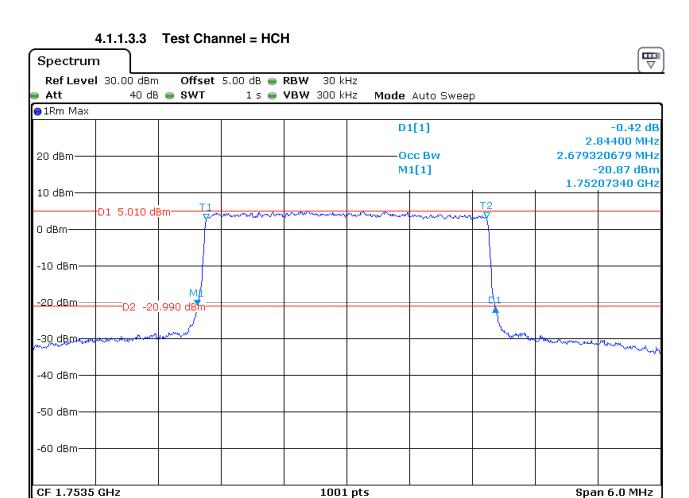


Report No.: SZEM180300254201

09.05.2018

08:32:37

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Measuring...

Date: 9.MAY.2018 08:32:37

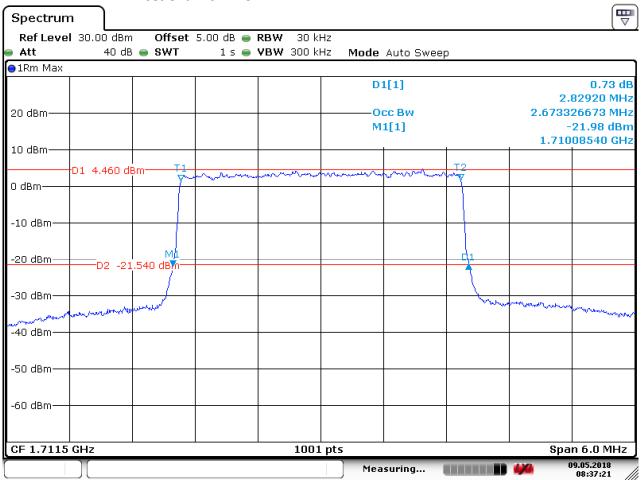


Report No.: SZEM180300254201

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4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH

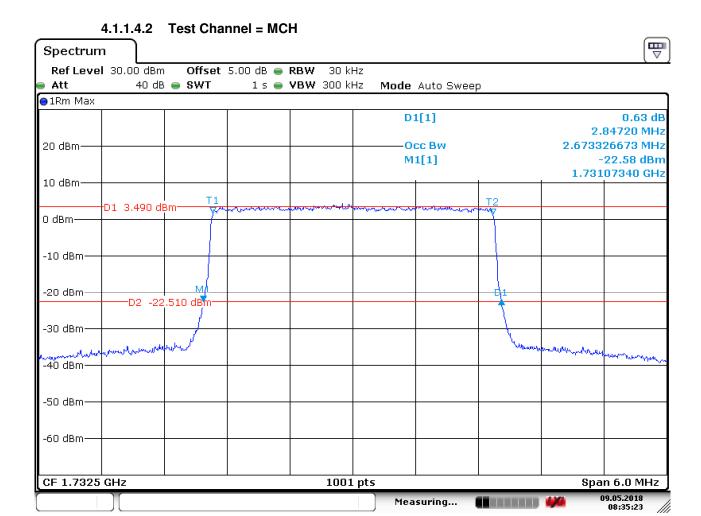


Date: 9.MAY.2018 08:37:21



Report No.: SZEM180300254201

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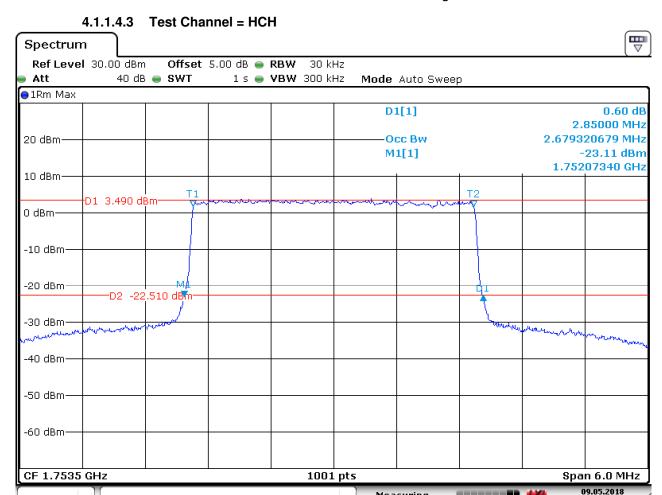
Date: 9.MAY.2018 08:35:23



Report No.: SZEM180300254201

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Measuring...



Date: 9.MAY.2018 08:33:24

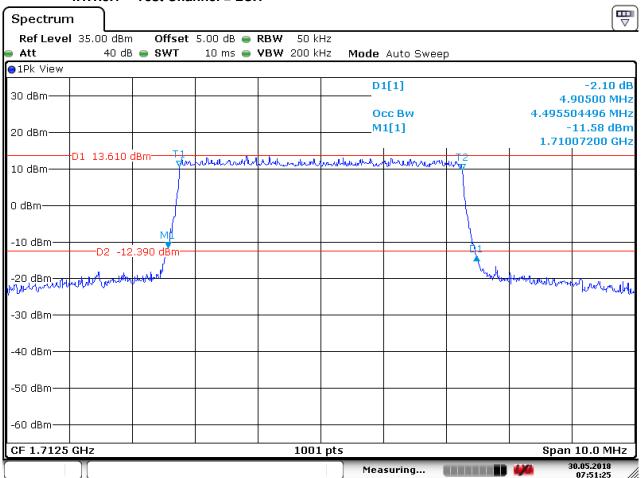


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4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH

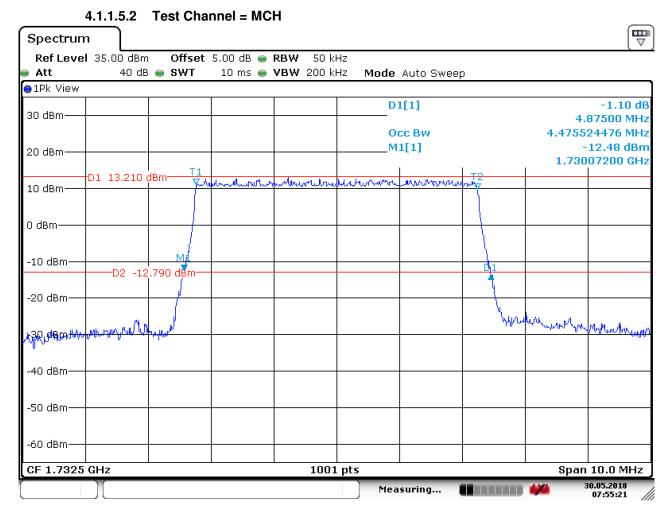


Date: 30.MAY.2018 07:51:26



Report No.: SZEM180300254201

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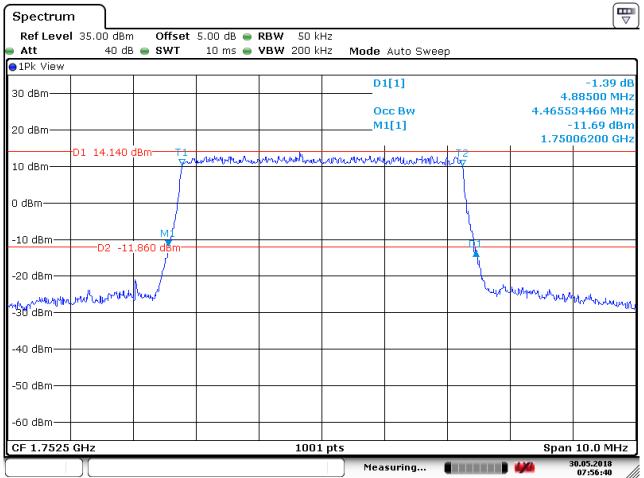
Date: 30.MAY.2018 07:55:21



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Date: 30.MAY.2018 07:56:40

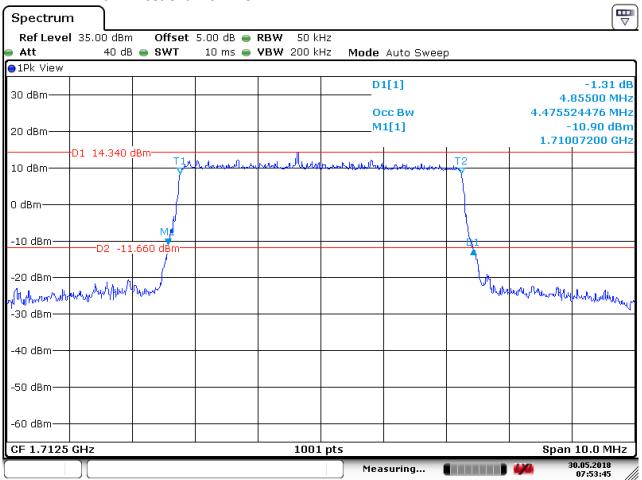


Report No.: SZEM180300254201

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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH



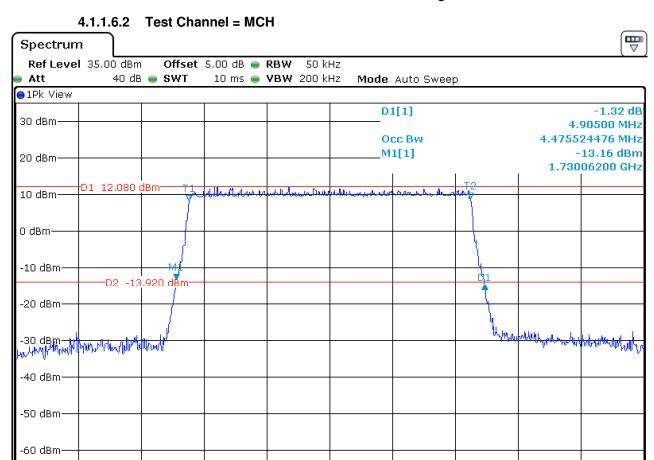
Date: 30.MAY.2018 07:53:45



Report No.: SZEM180300254201

Span 10.0 MHz 30.05.2018

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1001 pts

Measuring...

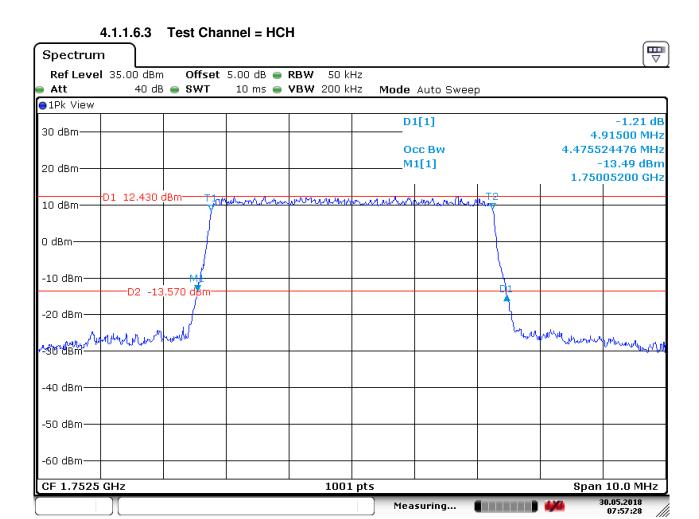
Date: 30.MAY.2018 07:54:34

CF 1.7325 GHz



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Date: 30.MAY.2018 07:57:28



Report No.: SZEM180300254201

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4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH

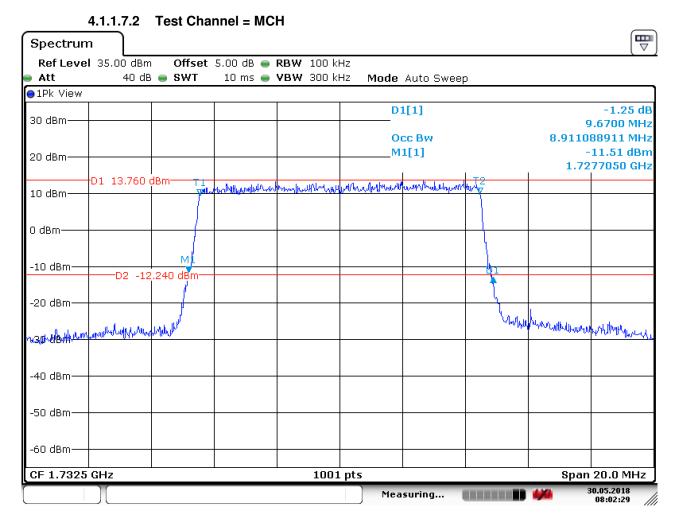


Date: 30.MAY.2018 08:05:15



Report No.: SZEM180300254201

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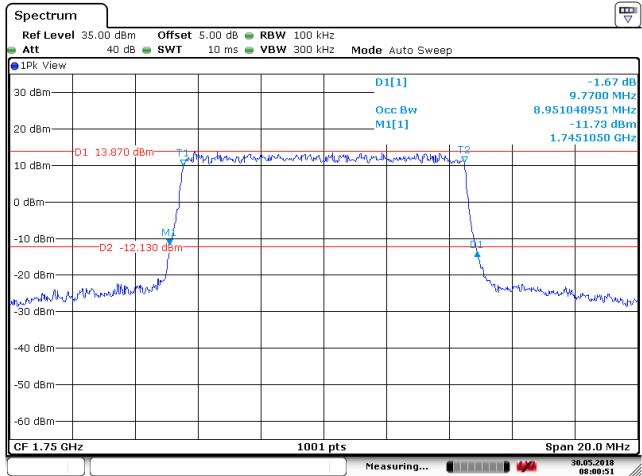
Date: 30.MAY.2018 08:02:30



Report No.: SZEM180300254201

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Date: 30.MAY.2018 08:00:52

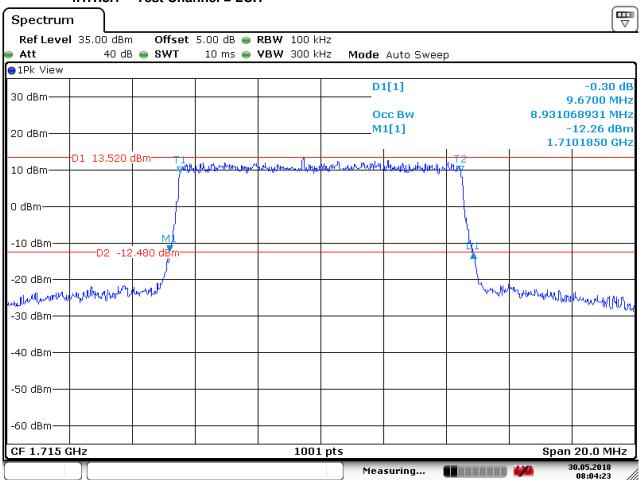


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4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH



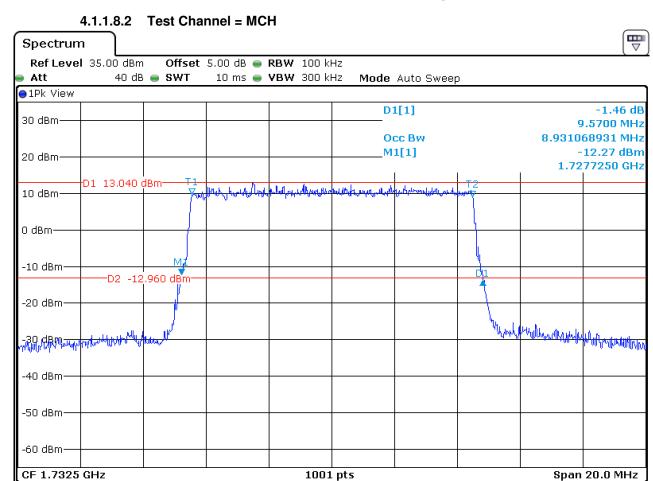
Date: 30.MAY.2018 08:04:24



Report No.: SZEM180300254201

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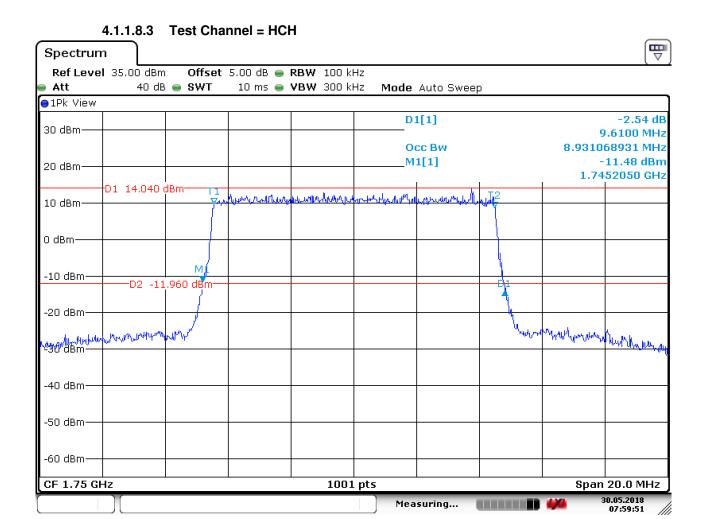
Measuring...

Date: 30.MAY.2018 08:03:27



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Date: 30.MAY.2018 07:59:51

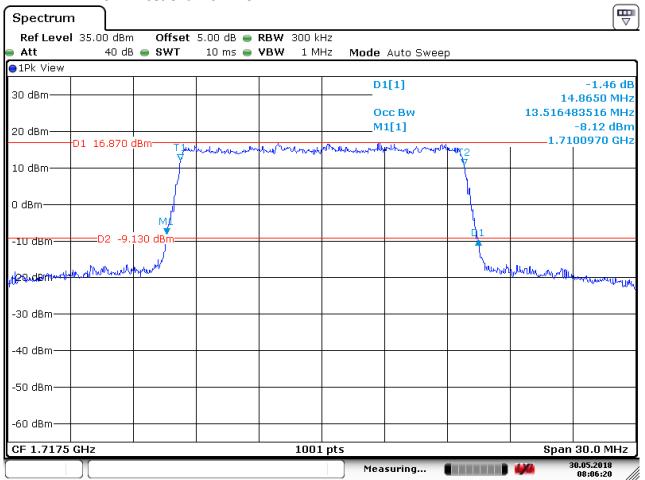


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4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH

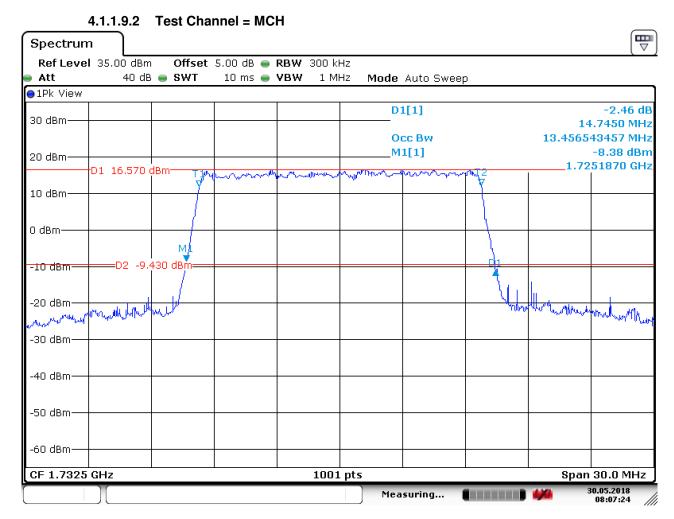


Date: 30.MAY.2018 08:06:20



Report No.: SZEM180300254201

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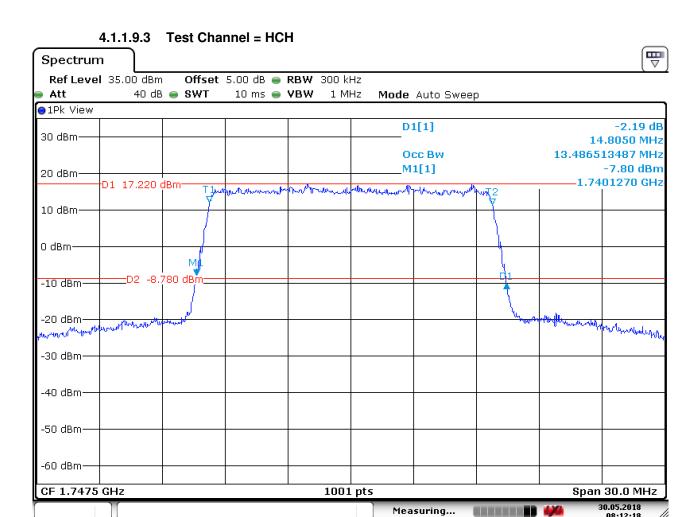


Date: 30.MAY.2018 08:07:24



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Date: 30.MAY.2018 08:12:18

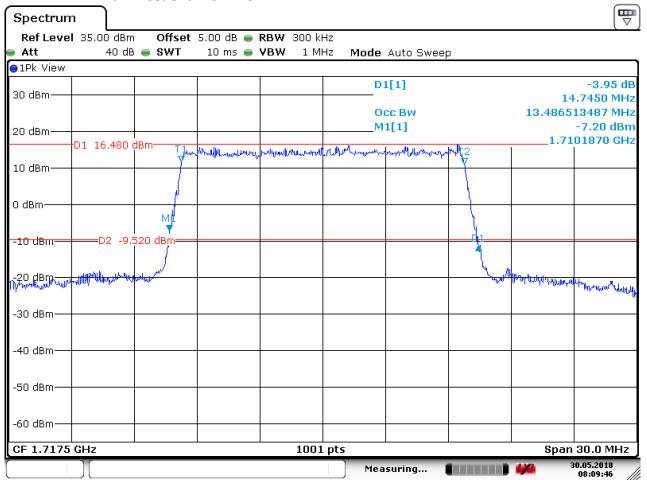


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4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH

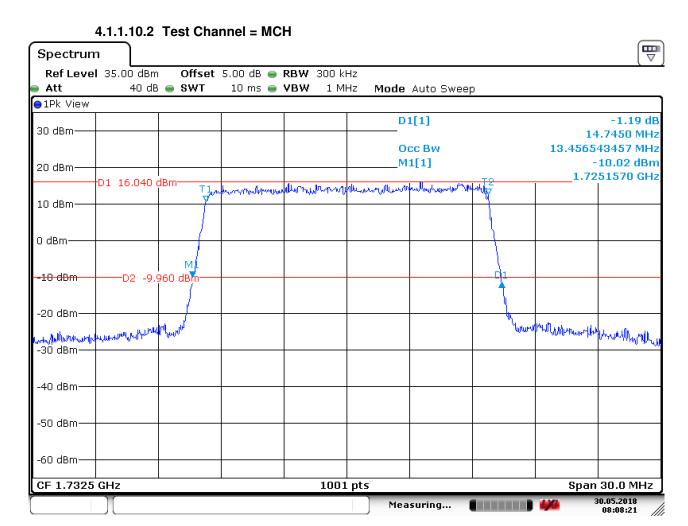


Date: 30.MAY.2018 08:09:47



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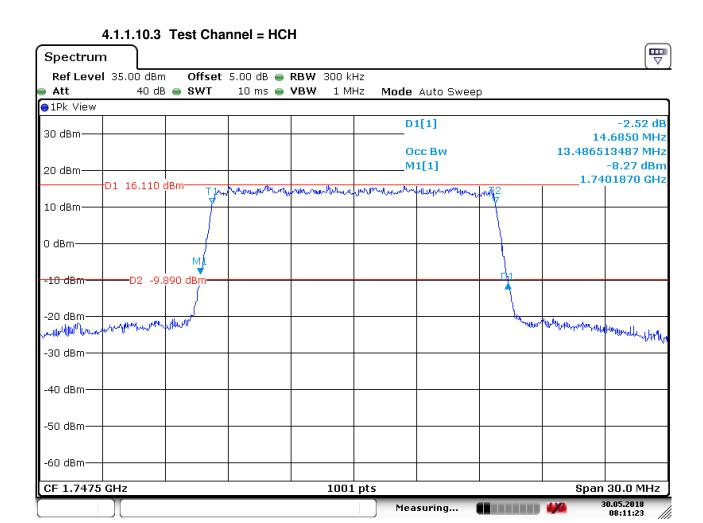


Date: 30.MAY.2018 08:08:21



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Date: 30.MAY.2018 08:11:24

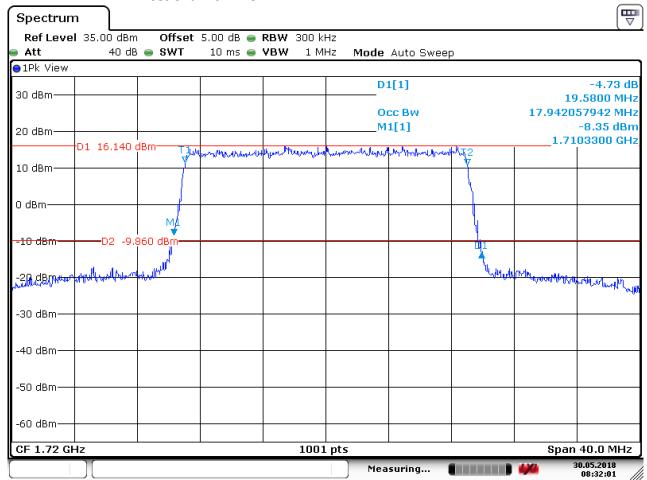


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4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH

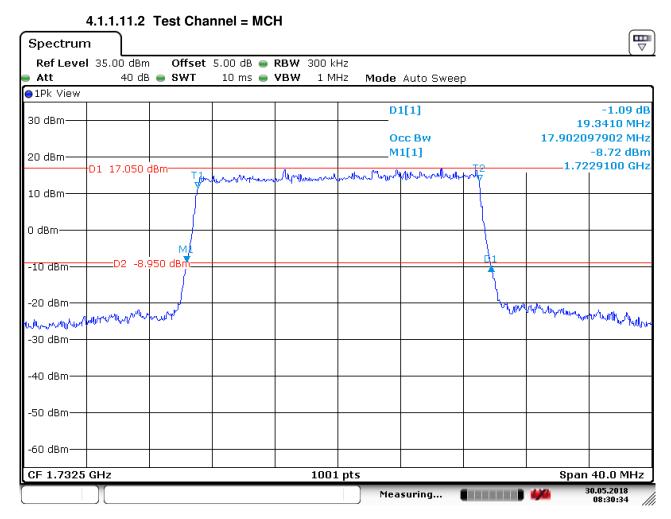


Date: 30.MAY.2018 08:32:01



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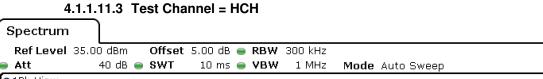
Date: 30.MAY.2018 08:30:34

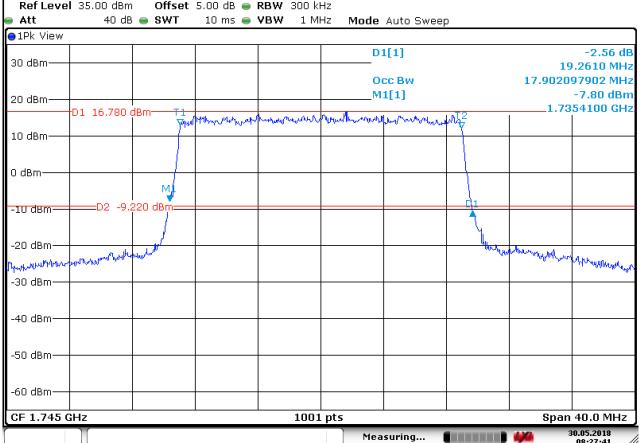


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Date: 30.MAY.2018 08:27:42

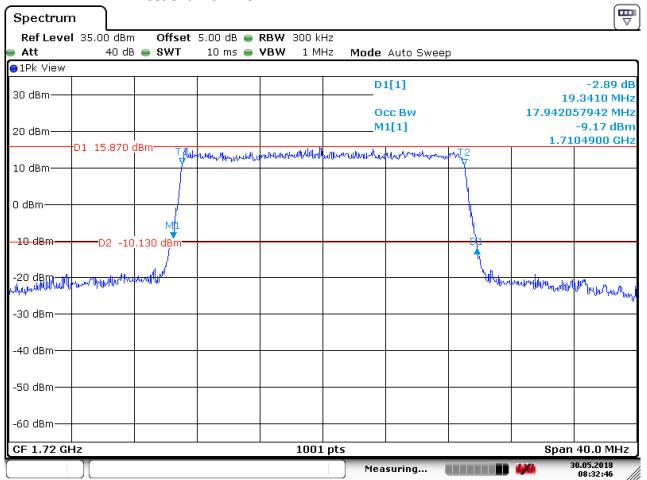


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4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH

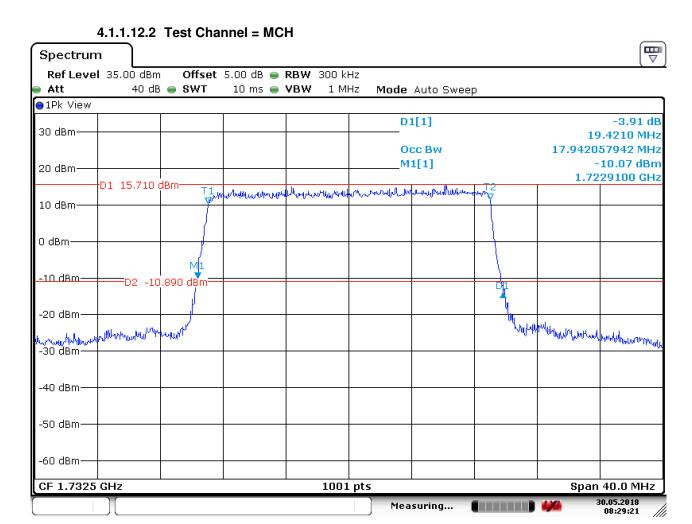


Date: 30.MAY.2018 08:32:46



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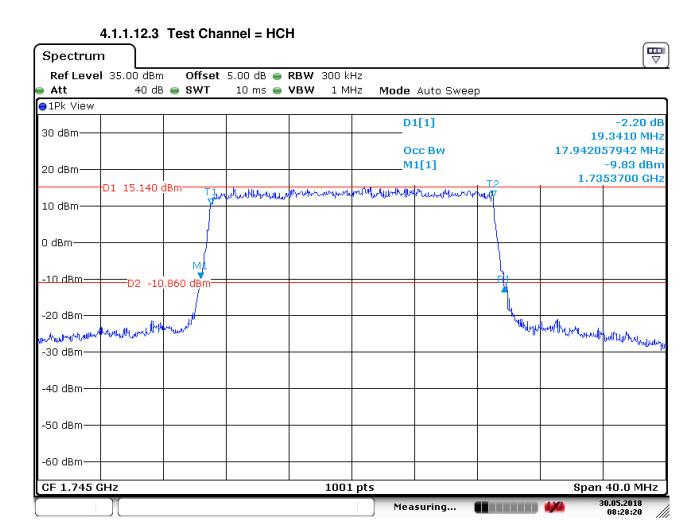


Date: 30.MAY.2018 08:29:21



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Date: 30.MAY.2018 08:28:21



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5 Band Edges Compliance

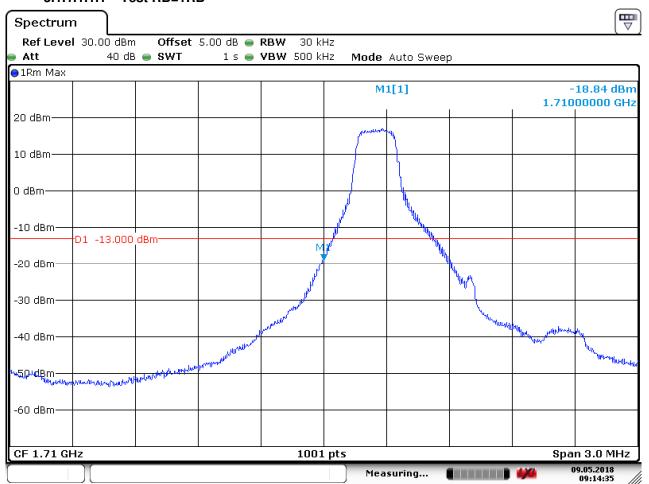
5.1 For LTE

5.1.1 Test Band = LTE band4

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



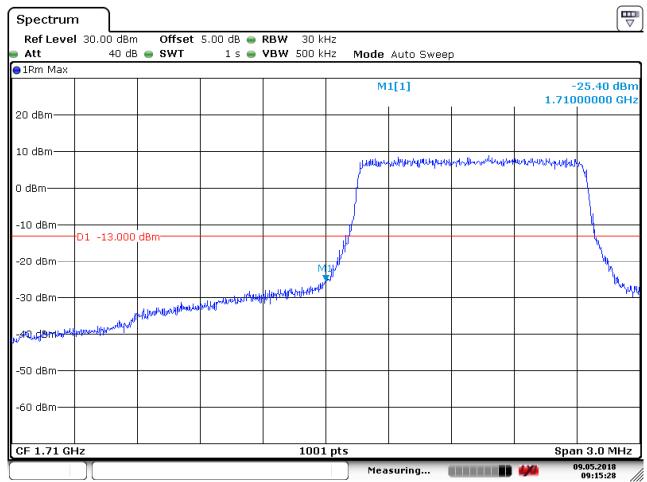
Date: 9.MAY.2018 09:14:35



Report No.: SZEM180300254201

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5.1.1.1.1.2 Test RB=6RB



Date: 9.MAY.2018 09:15:29

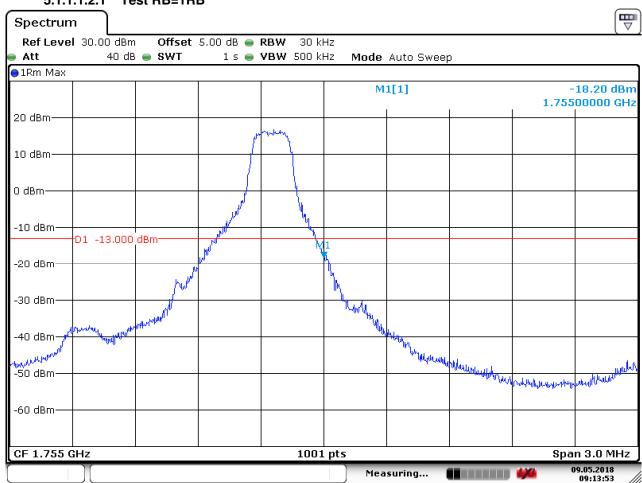


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5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



Date: 9.MAY.2018 09:13:53



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5.1.1.1.2.2 Test RB=6RB



Date: 9.MAY.2018 09:12:50

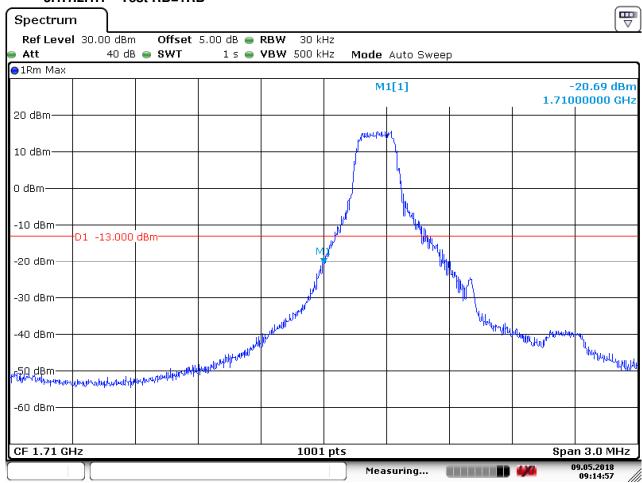


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5.1.1.2 Test Mode = LTE/TM2 1.4MHz 5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



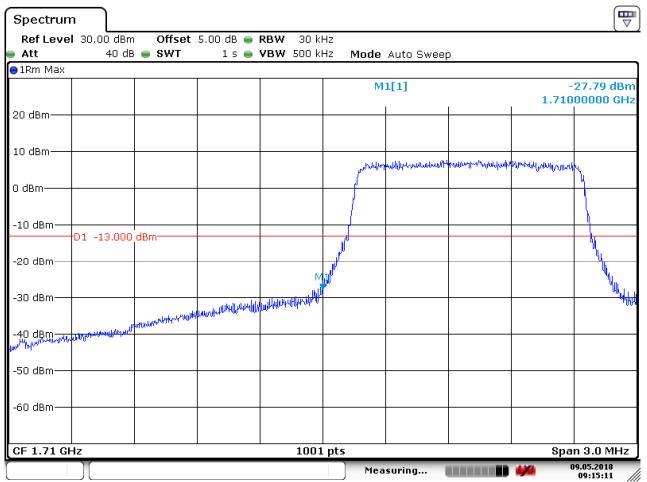
Date: 9.MAY.2018 09:14:58



Report No.: SZEM180300254201

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5.1.1.2.1.2 Test RB=6RB



Date: 9.MAY.2018 09:15:12

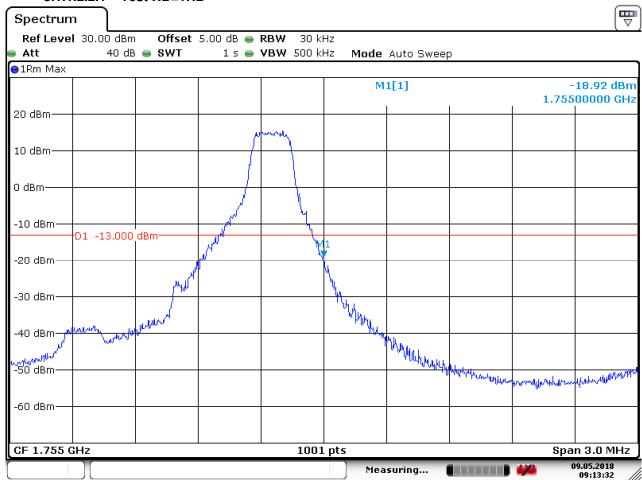


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5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



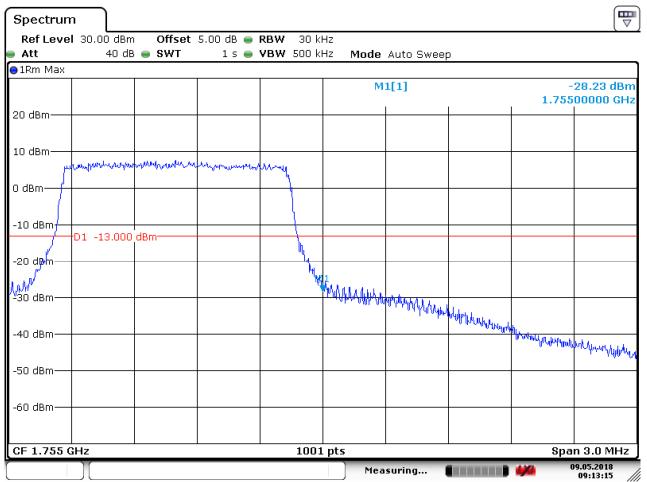
Date: 9.MAY.2018 09:13:32



Report No.: SZEM180300254201

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5.1.1.2.2.2 Test RB=6RB



Date: 9.MAY.2018 09:13:15

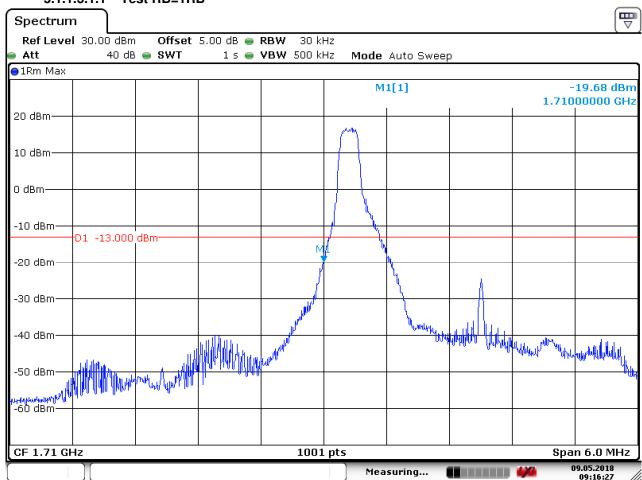


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5.1.1.3 Test Mode = LTE/TM1 3MHz 5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



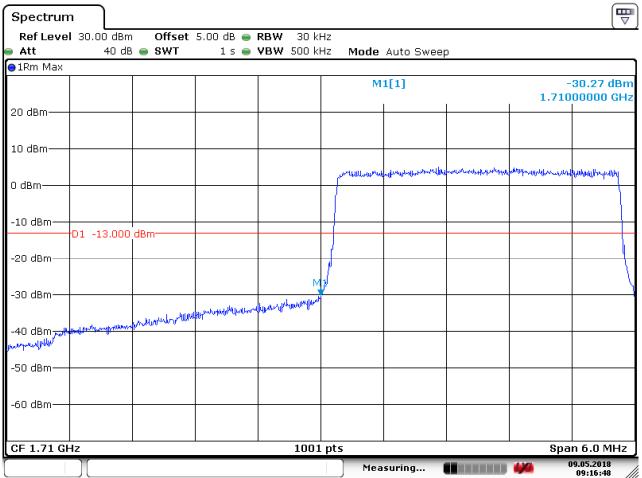
Date: 9.MAY.2018 09:16:27



Report No.: SZEM180300254201

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5.1.1.3.1.2 Test RB=15RB



Date: 9.MAY.2018 09:16:48

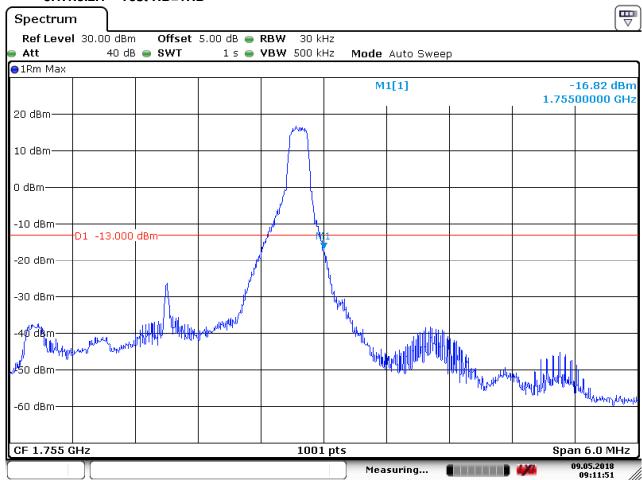


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5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



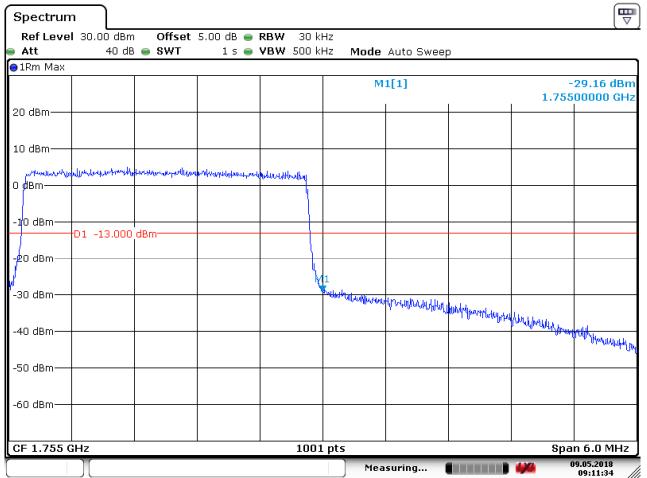
Date: 9.MAY.2018 09:11:52



Report No.: SZEM180300254201

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5.1.1.3.2.2 Test RB=15RB



Date: 9.MAY.2018 09:11:34

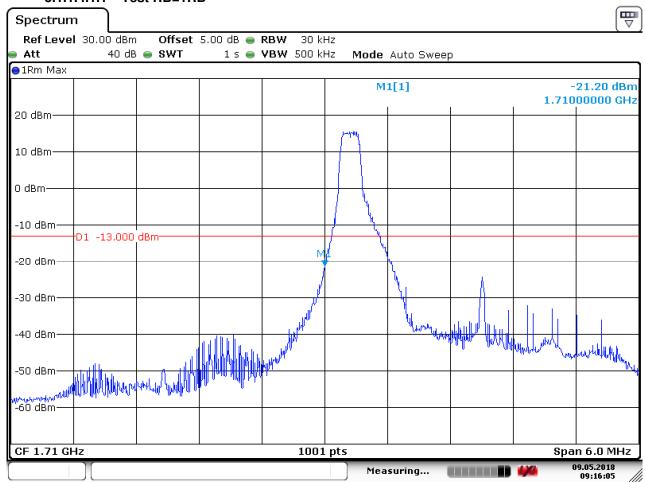


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5.1.1.4 Test Mode = LTE/TM2 3MHz 5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



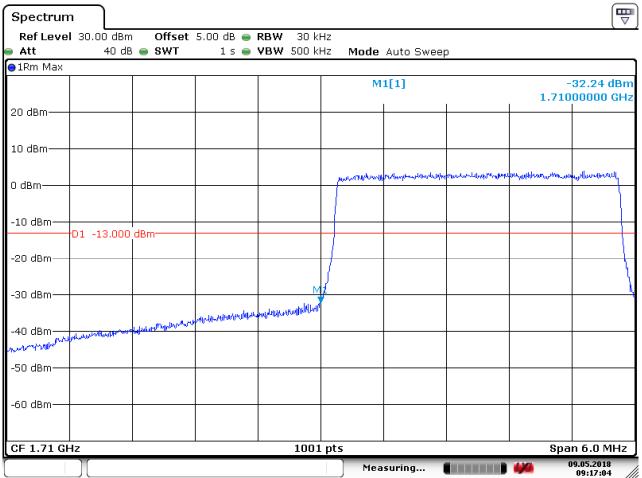
Date: 9.MAY.2018 09:16:05



Report No.: SZEM180300254201

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5.1.1.4.1.2 Test RB=15RB



Date: 9.MAY.2018 09:17:04

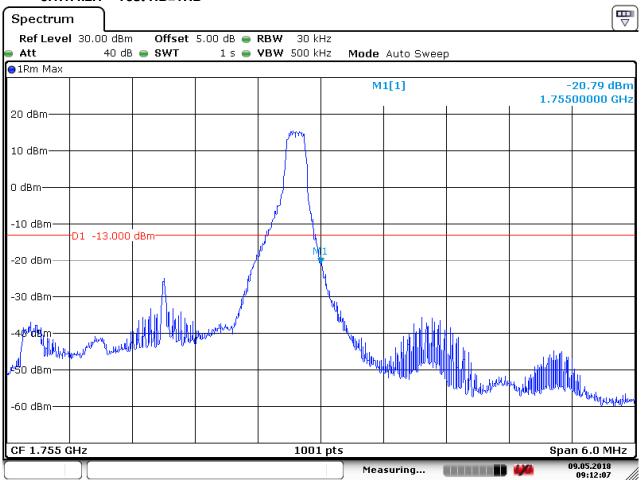


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5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



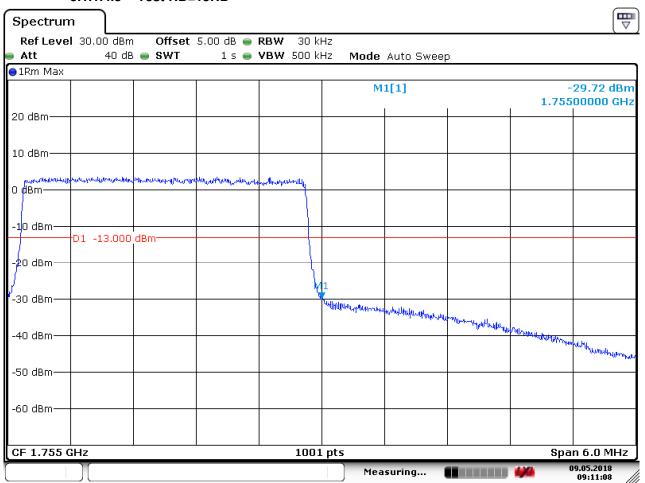
Date: 9.MAY.2018 09:12:07



Report No.: SZEM180300254201

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5.1.1.4.3 Test RB=15RB



Date: 9.MAY.2018 09:11:09

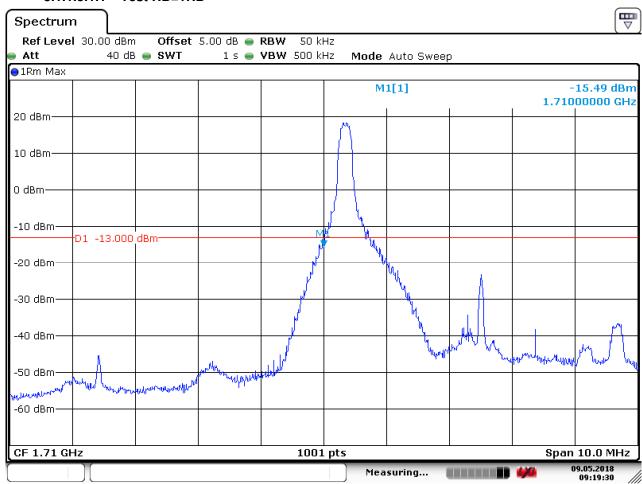


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5.1.1.5 Test Mode = LTE/TM1 5MHz 5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 9.MAY.2018 09:19:31

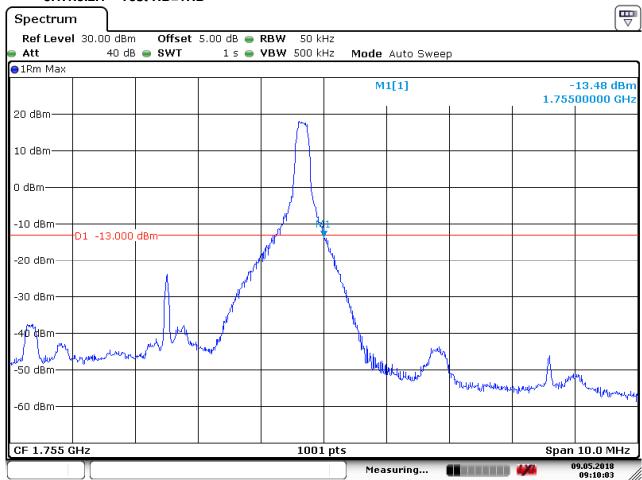


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5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



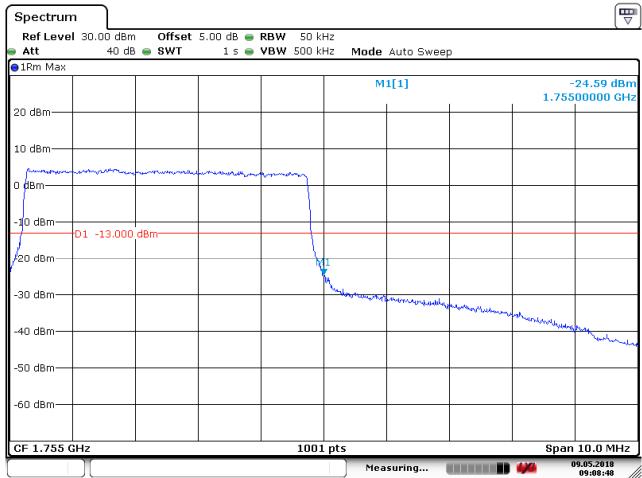
Date: 9.MAY.2018 09:10:03



Report No.: SZEM180300254201

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5.1.1.5.2.2 Test RB=25RB



Date: 9.MAY.2018 09:08:48

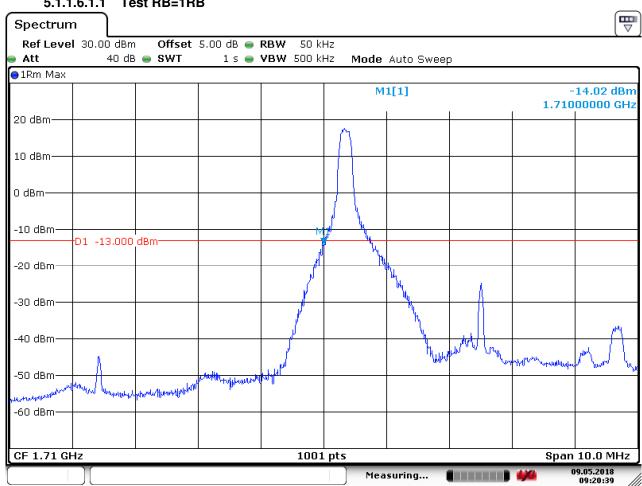


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5.1.1.6 Test Mode = LTE/TM2 5MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 9.MAY.2018 09:20:39

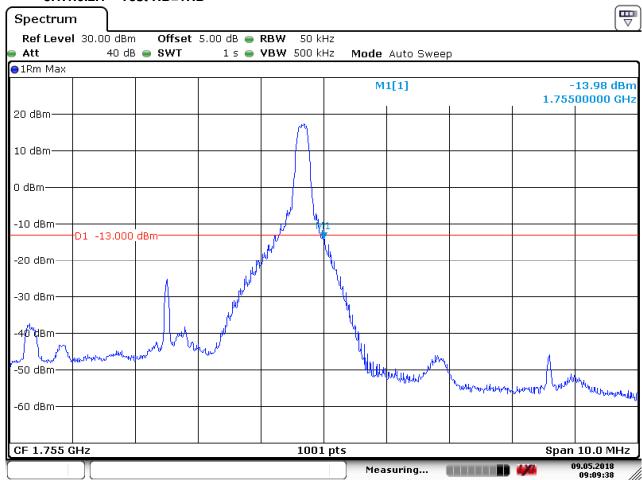


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5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



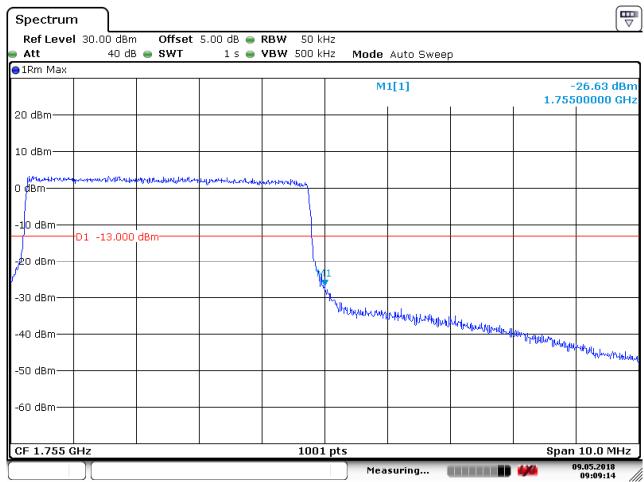
Date: 9.MAY.2018 09:09:38



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5.1.1.6.2.2 Test RB=25RB



Date: 9.MAY.2018 09:09:15

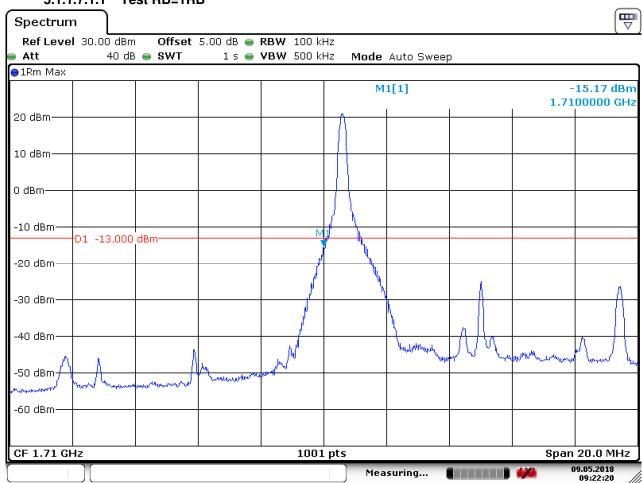


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5.1.1.7 Test Mode = LTE/TM1 10MHz 5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



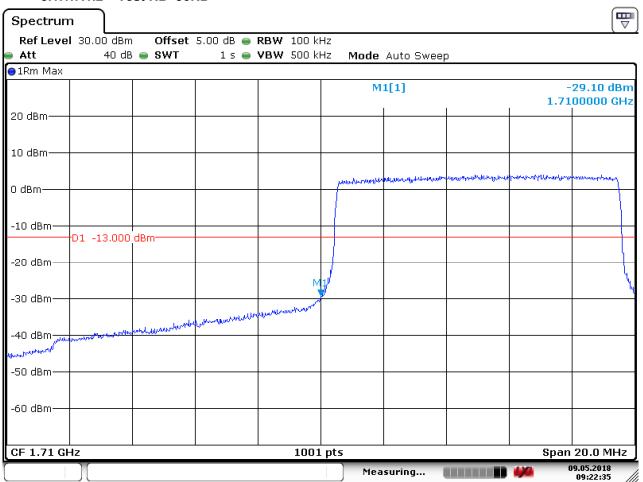
Date: 9.MAY.2018 09:22:21



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5.1.1.7.1.2 Test RB=50RB



Date: 9.MAY.2018 09:22:35

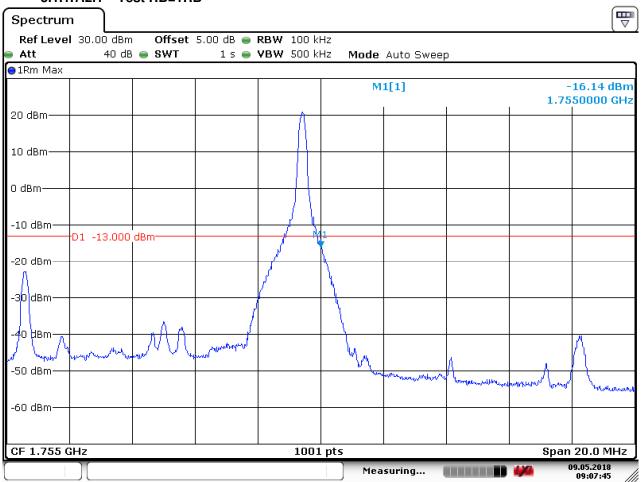


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5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



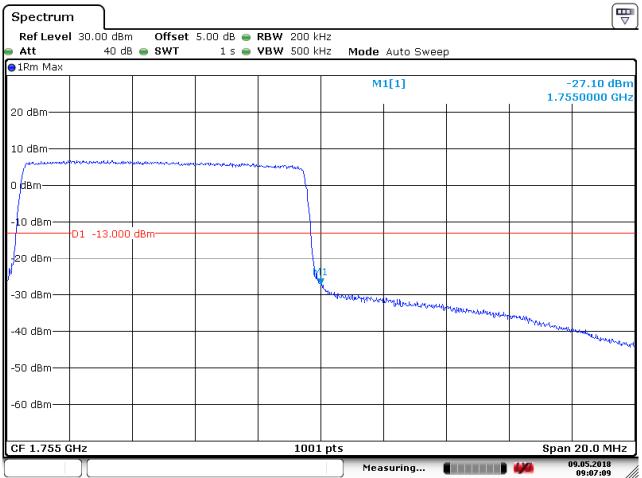
Date: 9.MAY.2018 09:07:45



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Date: 9.MAY.2018 09:07:09

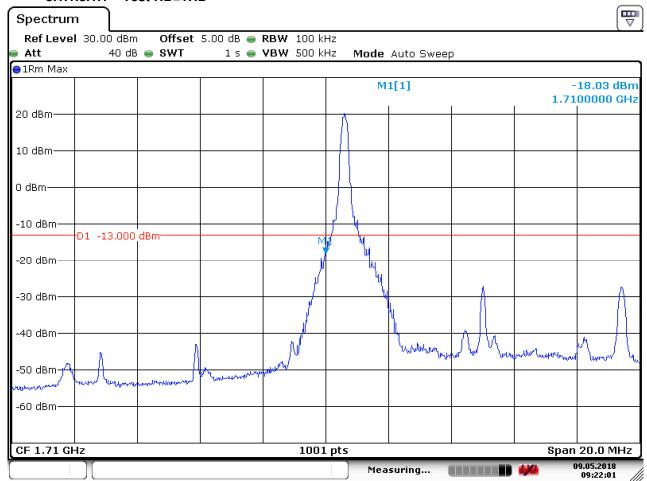


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5.1.1.8 Test Mode = LTE/TM2 10MHz 5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



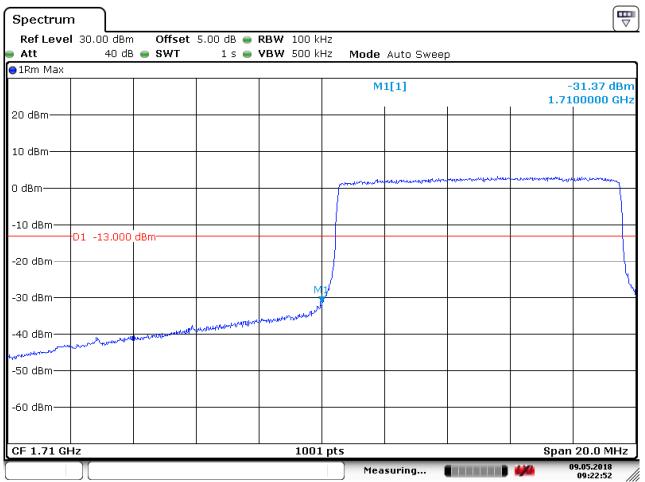
Date: 9.MAY.2018 09:22:01



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5.1.1.8.1.2 Test RB=50RB



Date: 9.MAY.2018 09:22:52

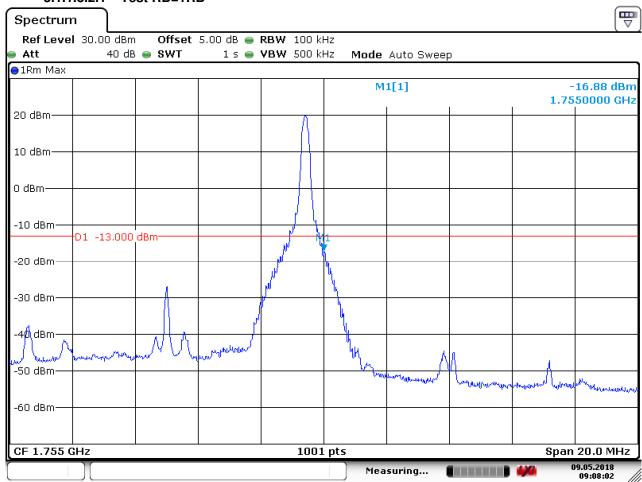


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5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



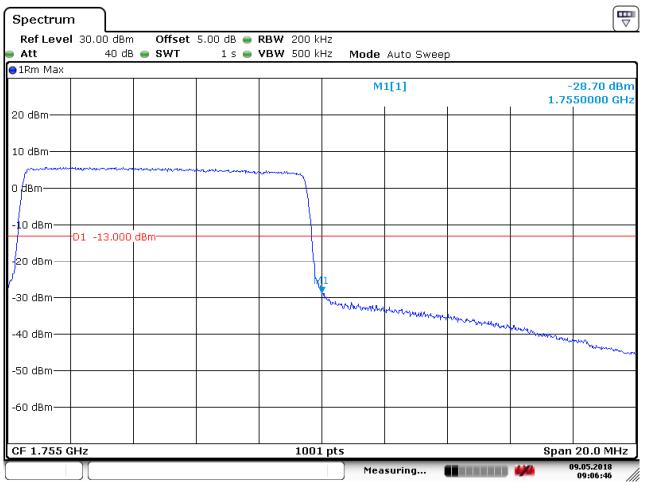
Date: 9.MAY.2018 09:08:03



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5.1.1.8.2.2 Test RB=50RB



Date: 9.MAY.2018 09:06:46

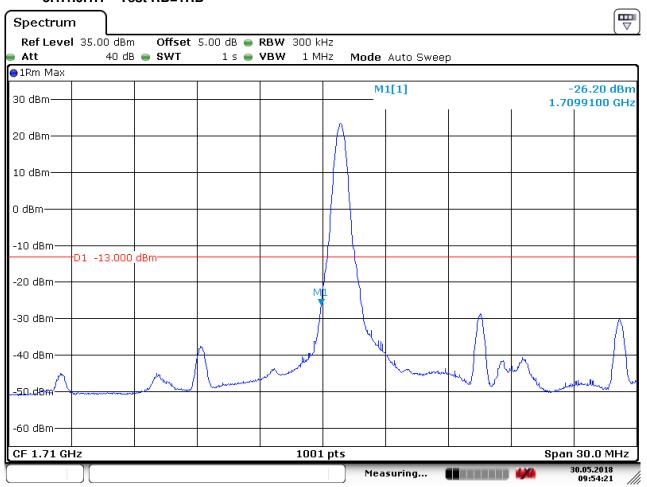


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5.1.1.9 Test Mode = LTE/TM1 15MHz 5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB



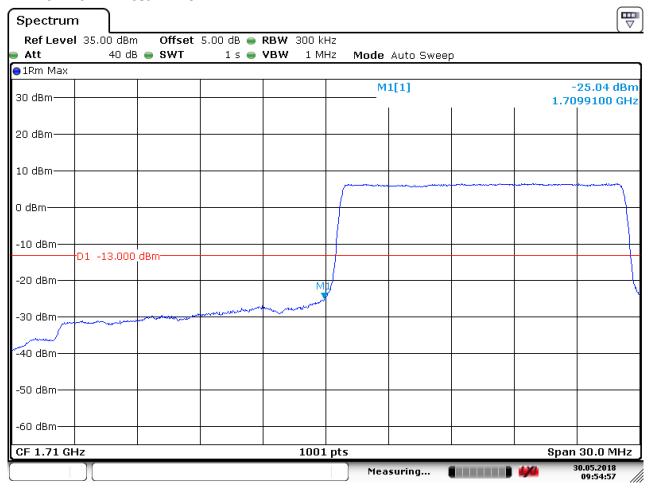
Date: 30.MAY.2018 09:54:21



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5.1.1.9.1.2 Test RB=75RB



Date: 30.MAY.2018 09:54:57

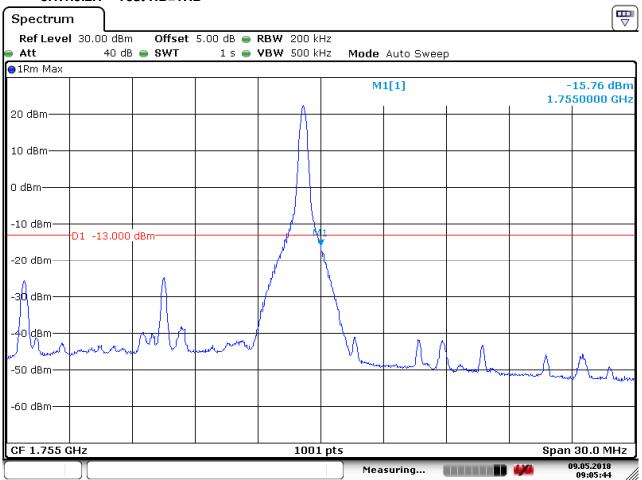


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5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB



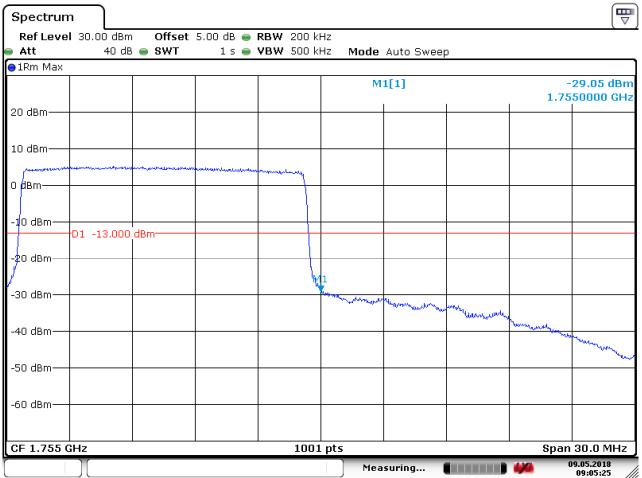
Date: 9.MAY.2018 09:05:45



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5.1.1.9.2.2 Test RB=75RB



Date: 9.MAY.2018 09:05:26

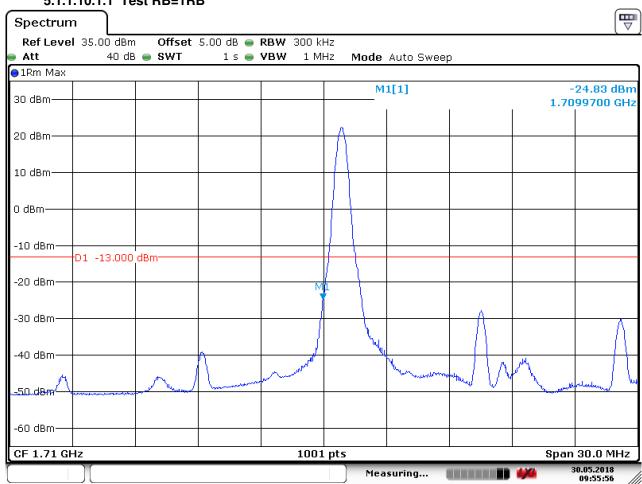


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5.1.1.10 Test Mode = LTE/TM2 15MHz 5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



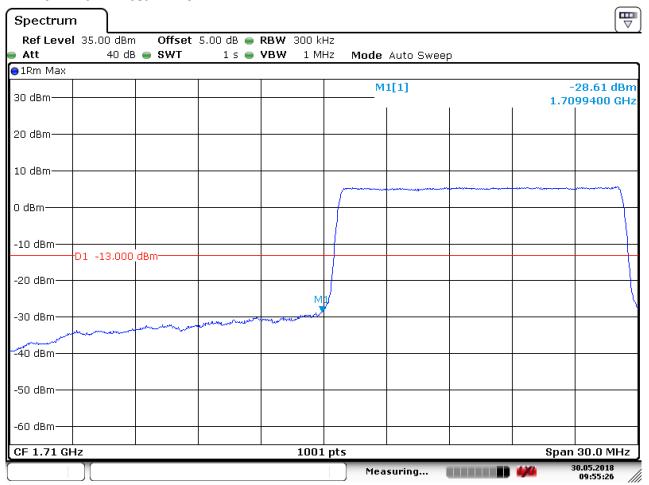
Date: 30.MAY.2018 09:55:56



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5.1.1.10.1.2 Test RB=75RB



Date: 30.MAY.2018 09:55:26

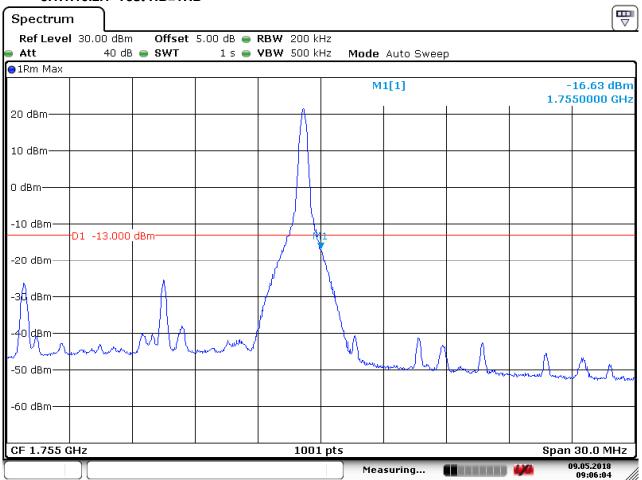


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5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



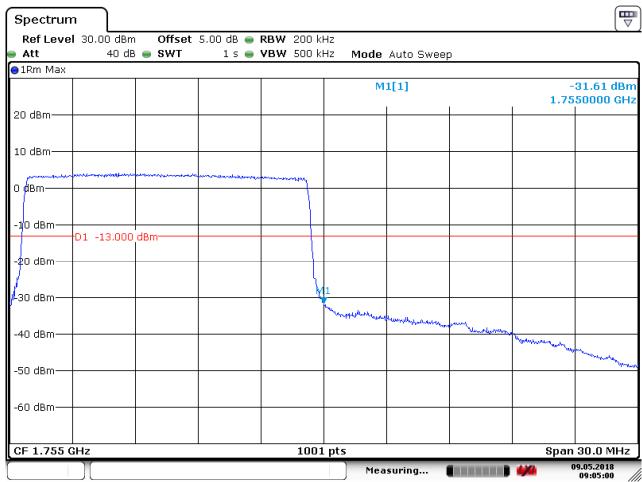
Date: 9.MAY.2018 09:06:04



Report No.: SZEM180300254201

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5.1.1.10.2.2 Test RB=75RB



Date: 9.MAY.2018 09:05:00

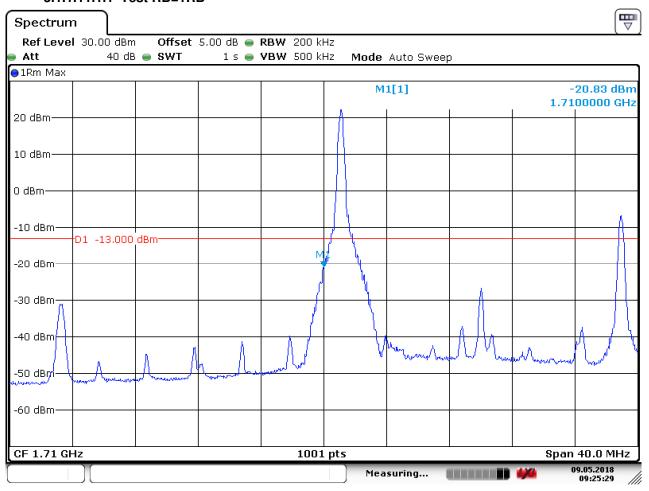


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5.1.1.11 Test Mode = LTE/TM1 20MHz 5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB



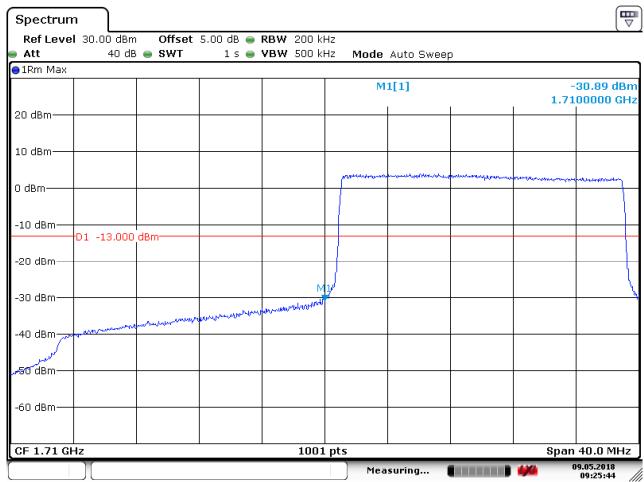
Date: 9.MAY.2018 09:25:30



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5.1.1.11.1.2 Test RB=100RB



Date: 9.MAY.2018 09:25:44

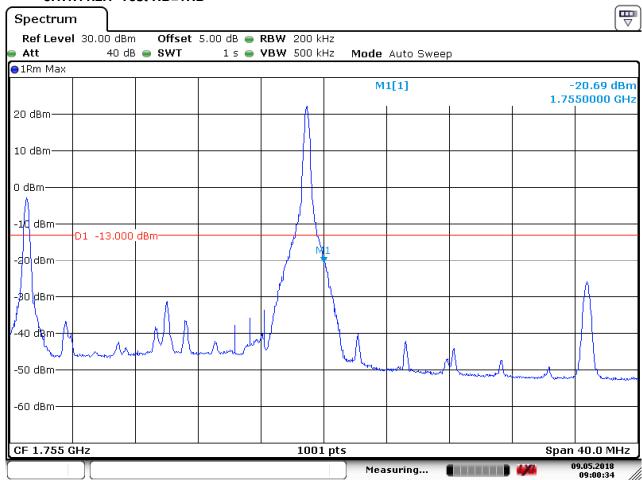


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5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



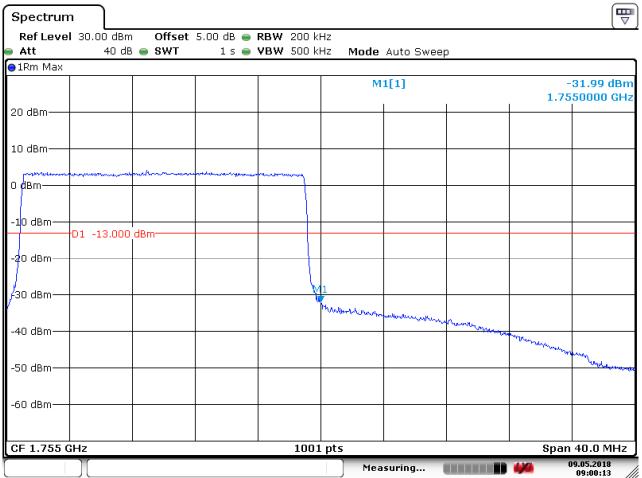
Date: 9.MAY.2018 09:00:34



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5.1.1.11.2.2 Test RB=100RB



Date: 9.MAY.2018 09:00:13

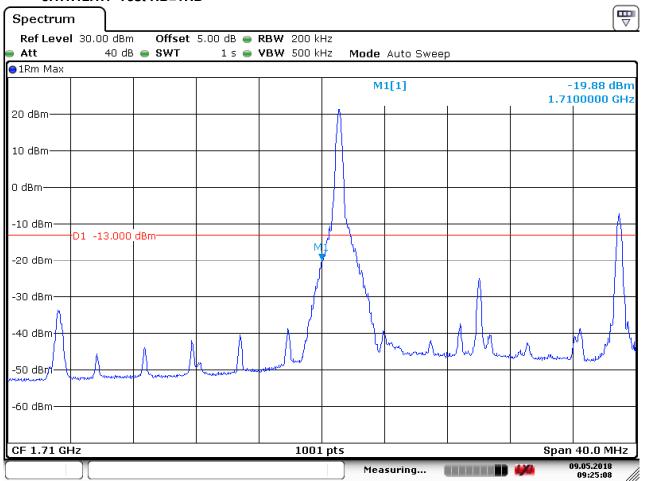


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5.1.1.12 Test Mode = LTE/TM2 20MHz 5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



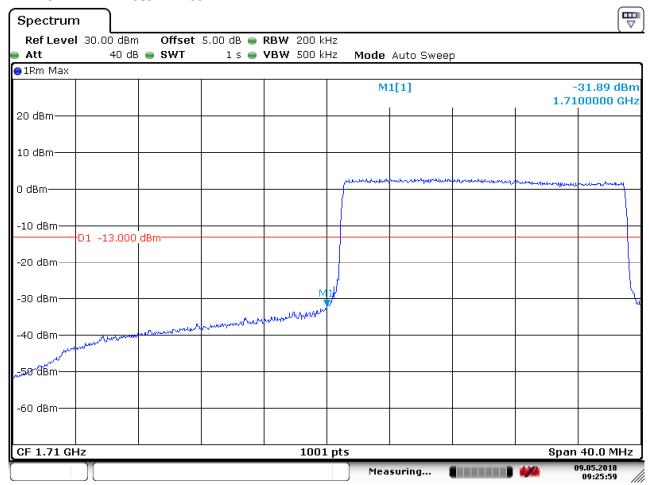
Date: 9.MAY.2018 09:25:09



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5.1.1.12.1.2 Test RB=100RB



Date: 9.MAY.2018 09:26:00

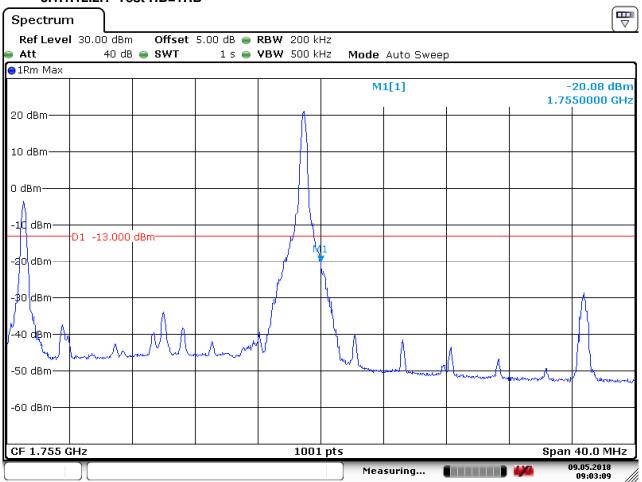


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5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



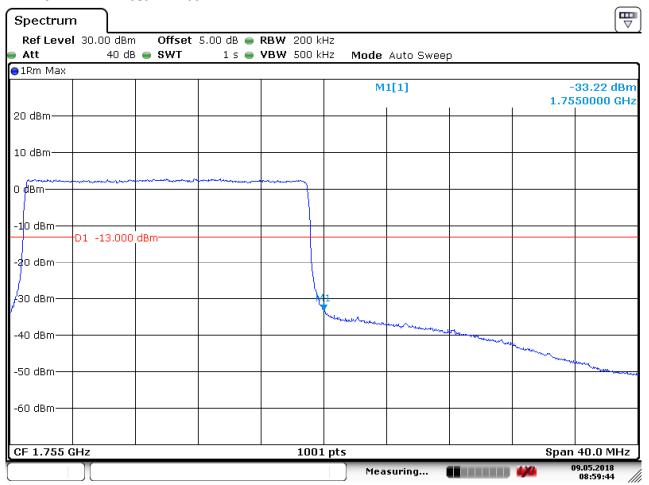
Date: 9.MAY.2018 09:03:09



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5.1.1.12.2.2 Test RB=100RB



Date: 9.MAY.2018 08:59:45



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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 = 4 * (Span / RBW) with k = 4 * (Span / RBW).

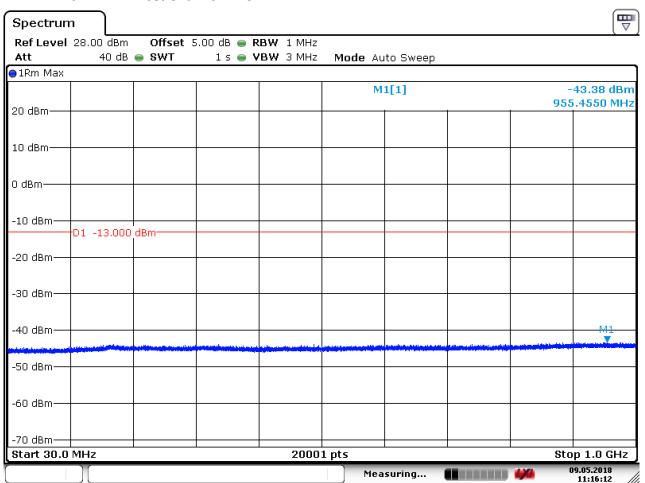
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band4

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

6.1.1.1.1 Test Channel = LCH

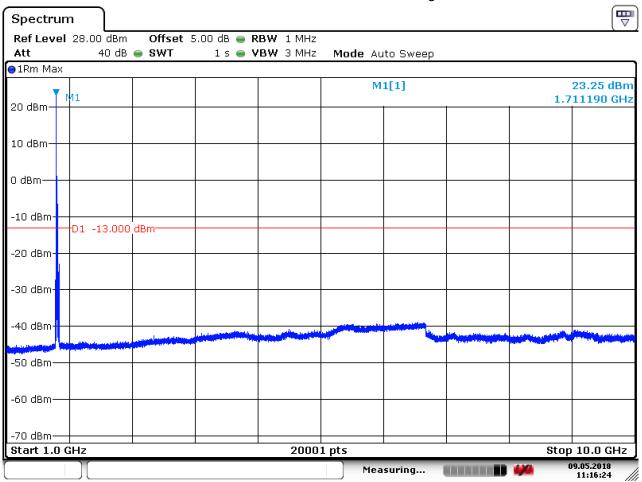


Date: 9.MAY.2018 11:16:12



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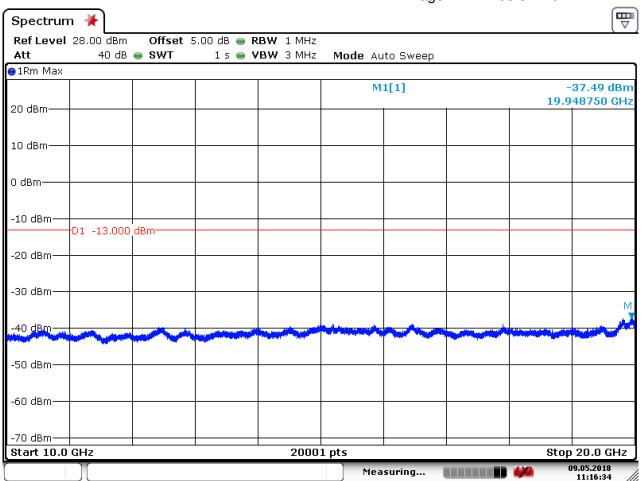


Date: 9.MAY.2018 11:16:24



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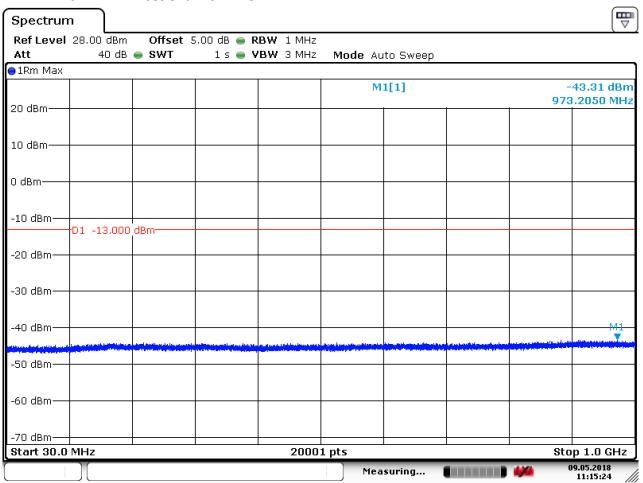
Date: 9.MAY.2018 11:16:35



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6.1.1.1.2 Test Channel = MCH

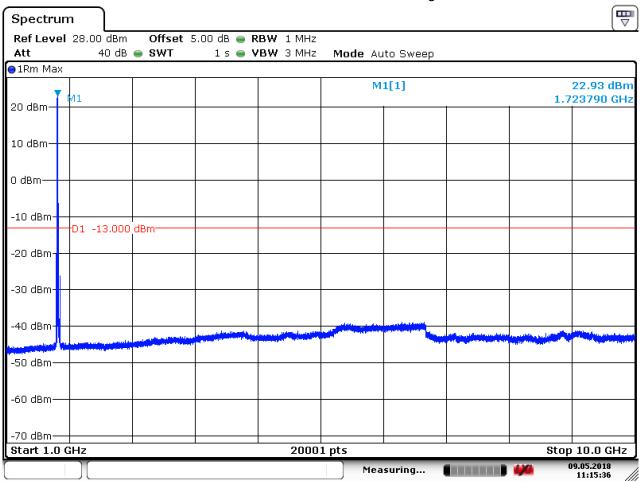


Date: 9.MAY.2018 11:15:25



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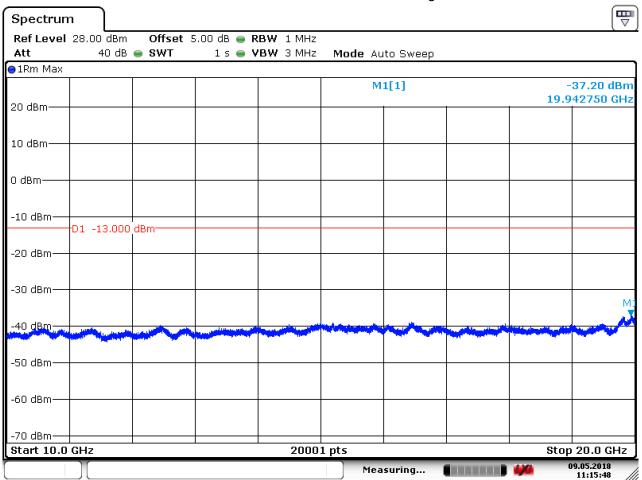


Date: 9.MAY.2018 11:15:37



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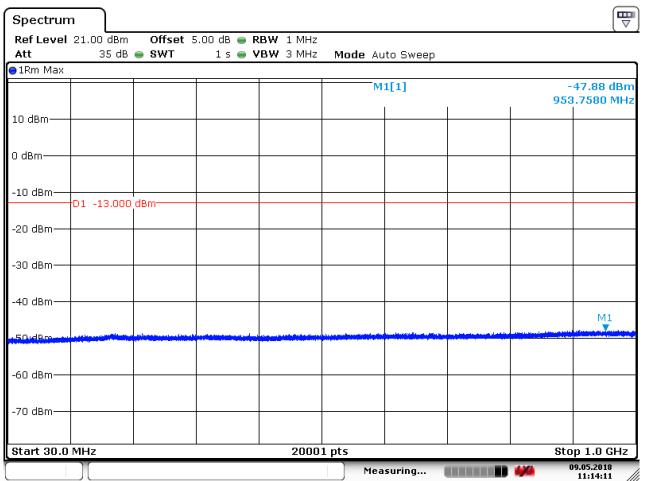
Date: 9.MAY.2018 11:15:48



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6.1.1.1.3 Test Channel = HCH

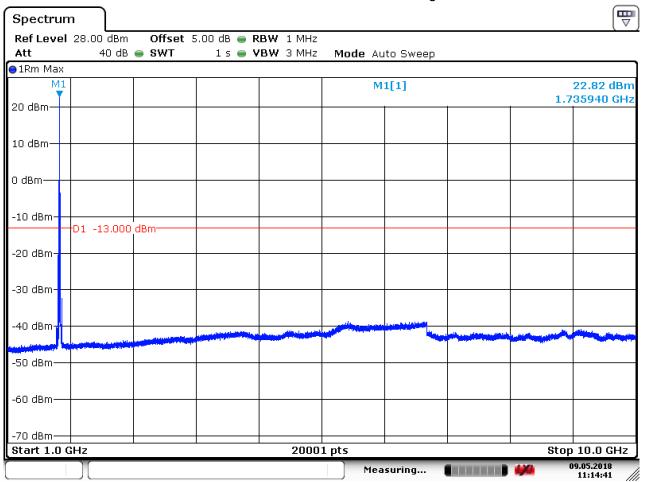


Date: 9.MAY.2018 11:14:12



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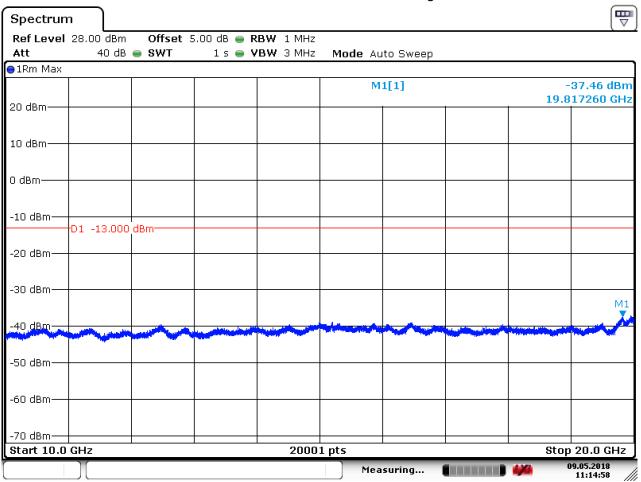


Date: 9.MAY.2018 11:14:41



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Date: 9.MAY.2018 11:14:58



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band4

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

7.1.1.1.1 Test Channel = LCH

/.1.1.1.1	rest Channel = LC	/1 I		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
63.750000	-80.49	-13.00	67.49	Vertical
108.500000	-81.36	-13.00	68.36	Vertical
2112.500000	-47.56	-13.00	34.56	Vertical
5132.975000	-59.92	-13.00	46.92	Vertical
6844.100000	-59.12	-13.00	46.12	Vertical
8555.225000	-60.98	-13.00	47.98	Vertical
62.350000	-77.82	-13.00	64.82	Horizontal
266.450000	-84.11	-13.00	71.11	Horizontal
2112.000000	-45.22	-13.00	32.22	Horizontal
3422.175000	-63.91	-13.00	50.91	Horizontal
6844.425000	-56.98	-13.00	43.98	Horizontal
8555.225000	-57.80	-13.00	44.80	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.350000	-80.54	-13.00	67.54	Vertical
108.500000	-81.76	-13.00	68.76	Vertical
2135.500000	-47.91	-13.00	34.91	Vertical
5170.675000	-60.97	-13.00	47.97	Vertical
6894.475000	-62.87	-13.00	49.87	Vertical
8617.950000	-62.32	-13.00	49.32	Vertical
62.550000	-77.46	-13.00	64.46	Horizontal
266.400000	-84.20	-13.00	71.20	Horizontal
2133.000000	-45.79	-13.00	32.79	Horizontal
3446.875000	-63.96	-13.00	50.96	Horizontal
5170.675000	-63.43	-13.00	50.43	Horizontal
6894.150000	-60.12	-13.00	47.12	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
64.650000	-80.85	-13.00	67.85	Vertical
108.900000	-81.39	-13.00	68.39	Vertical
2146.000000	-47.08	-13.00	34.08	Vertical
3471.900000	-63.02	-13.00	50.02	Vertical
5208.050000	-58.96	-13.00	45.96	Vertical
8680.350000	-55.05	-13.00	42.05	Vertical
63.750000	-78.29	-13.00	65.29	Horizontal
269.400000	-83.15	-13.00	70.15	Horizontal
2141.500000	-45.75	-13.00	32.75	Horizontal
3472.225000	-61.13	-13.00	48.13	Horizontal
6944.525000	-53.51	-13.00	40.51	Horizontal
8680.350000	-52.14	-13.00	39.14	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	TN	VL	-0.29	-0.00017	PASS
				VN	-2.94	-0.00171	PASS
				VH	-0.45	-0.00026	PASS
				VL	8.67	0.00500	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-6.68	-0.00385	PASS
				VH	2.73	0.00158	PASS
		НСН	TN	VL	-1.21	-0.00069	PASS
				VN	8.24	0.00472	PASS
LTEband4				VH	-3.08	-0.00177	PASS
LTEDanu4	LTE/TM2 20MHz	LCH	TN	VL	-0.77	-0.00045	PASS
				VN	-2.91	-0.00169	PASS
				VH	-3.71	-0.00216	PASS
		MCH	TN	VL	5.56	0.00321	PASS
				VN	2.36	0.00136	PASS
				VH	7.80	0.00450	PASS
		нсн т		VL	7.32	0.00420	PASS
			TN	VN	-2.56	-0.00147	PASS
				VH	7.92	0.00454	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	-1.88	-0.00109	PASS
				-20	-3.05	-0.00177	PASS
				-10	8.72	0.00507	PASS
				0	0.26	0.00015	PASS
		LCH		10	3.94	0.00229	PASS
				20	-0.84	-0.00049	PASS
				30	-6.43	-0.00374	PASS
				40	-5.61	-0.00326	PASS
				50	6.17	0.00359	PASS
	LTE/TM1 20MHz			-30	-9.15	-0.00528	PASS
			VN	-20	-8.73	-0.00504	PASS
		МСН		-10	0.12	0.00007	PASS
				0	7.15	0.00413	PASS
LTEband4				10	-3.78	-0.00218	PASS
				20	2.89	0.00167	PASS
				30	5.28	0.00305	PASS
				40	-6.94	-0.00400	PASS
				50 1.01	0.00059	PASS	
				-30	-0.78	-0.00045	PASS
				-20	5.80	0.00337	PASS
				-10	-2.60	-0.00151	PASS
				0	5.82	0.00338	PASS
		HCH	VN	10	4.47	0.00260	PASS
				20	-6.54	-0.00380	PASS
				30	-1.11	-0.00064	PASS
				40	5.03	0.00292	PASS
				50	8.80	0.00512	PASS



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					Freq.	113 01 113	
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Error [Hz]	Freq. vs. rated [ppm]	Verdict
			VN	-30	5.80	0.00337	PASS
				-20	2.92	0.00170	PASS
				-10	2.33	0.00135	PASS
				0	4.91	0.00285	PASS
		LCH		10	-9.57	-0.00556	PASS
				20	0.50	0.00029	PASS
				30	-0.98	-0.00057	PASS
				40	-0.19	-0.00011	PASS
				50	2.65	0.00154	PASS
	LTE/TM2 20MHz			-30	-1.45	-0.00084	PASS
			VN	-20	1.62	0.00094	PASS
		МСН		-10	2.86	0.00165	PASS
				0	-6.05	-0.00349	PASS
LTEband4				10	4.66	0.00269	PASS
				20	7.00	0.00404	PASS
				30	5.46	0.00315	PASS
				40	9.90	0.00572	PASS
				50	-9.11	-0.00526	PASS
				-30	9.35	0.00543	PASS
				-20	0.46	0.00027	PASS
				-10	-8.01	-0.00466	PASS
				0	2.95	0.00171	PASS
		HCH	VN	10	0.66	0.00038	PASS
				20	4.76	0.00277	PASS
				30	-8.89	-0.00517	PASS
				40	0.78	0.00045	PASS
				50	-4.68	-0.00272	PASS

The End