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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	23.05	24.55	33.00	PASS		
				RB1#2	23.20	24.70	33.00	PASS		
				RB1#5	23.02	24.52	33.00	PASS		
			LCH	RB3#0	23.39	24.89	33.00	PASS		
				RB3#2	23.18	24.68	33.00	PASS		
				RB3#3	23.40	24.90	33.00	PASS		
				RB6#0	22.23	23.73	33.00	PASS		
				RB1#0	23.15	24.65	33.00	PASS		
				RB1#2	23.22	24.72	33.00	PASS		
			MCH	RB1#5	23.21	24.71	33.00	PASS		
BAND4	LTE/TM1	1.4M		RB3#0	23.33	24.83	33.00	PASS		
				RB3#2	23.35	24.85	33.00	PASS		
				RB3#3	23.25	24.75	33.00	PASS		
				RB6#0	22.18	23.68	33.00	PASS		
				RB1#0	23.37	24.87	33.00	PASS		
				RB1#2	23.46	24.96	33.00	PASS		
				RB1#5	23.35	24.85	33.00	PASS		
			HCH	RB3#0	23.48	24.98	33.00	PASS		
			RB3#2	23.48	24.98	33.00	PASS			
				RB3#3	23.55	25.05	33.00	PASS		
				RB6#0	22.44	23.94	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	22.21	23.71	33.00	PASS
				RB1#2	22.42	23.92	33.00	PASS
				RB1#5	22.43	23.93	33.00	PASS
			LCH	RB3#0	22.29	23.79	33.00	PASS
			-	RB3#2	22.36	23.86	33.00	PASS
				RB3#3	22.37	23.87	33.00	PASS
				RB6#0	21.04	22.54	33.00	PASS
				RB1#0	21.77	23.27	33.00	PASS
				RB1#2	21.98	23.48	33.00	PASS
		2 1.4M	МСН	RB1#5	22.13	23.63	33.00	PASS
BAND4	LTE/TM2			RB3#0	22.15	23.65	33.00	PASS
				RB3#2	22.02	23.52	33.00	PASS
				RB3#3	22.24	23.74	33.00	PASS
				RB6#0	20.97	22.47	33.00	PASS
				RB1#0	21.73	23.23	33.00	PASS
				RB1#2	21.96	23.46	33.00	PASS
				RB1#5	21.77	23.27	33.00	PASS
			HCH	RB3#0	22.13	23.63	33.00	PASS
				RB3#2	22.50	24.00	33.00	PASS
				RB3#3	22.40	23.90	33.00	PASS
				RB6#0	21.23	22.73	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	23.39	24.89	33.00	PASS
				RB1#7	23.46	24.96	33.00	PASS
				RB1#14	23.38	24.88	33.00	PASS
			LCH	RB8#0	22.25	23.75	33.00	PASS
				RB8#4	22.29	23.79	33.00	PASS
				RB8#7	22.37	23.87	33.00	PASS
				RB15#0	22.24	23.74	33.00	PASS
		E/TM1 3M		RB1#0	23.00	24.50	33.00	PASS
				RB1#7	23.13	24.63	33.00	PASS
			MCH	RB1#14	23.03	24.53	33.00	PASS
BAND4	LTE/TM1			RB8#0	22.08	23.58	33.00	PASS
				RB8#4	22.24	23.74	33.00	PASS
				RB8#7	22.22	23.72	33.00	PASS
				RB15#0	22.19	23.69	33.00	PASS
				RB1#0	23.40	24.90	33.00	PASS
				RB1#7	23.14	24.64	33.00	PASS
				RB1#14	23.35	24.85	33.00	PASS
			HCH	RB8#0	22.52	24.02	33.00	PASS
				RB8#4	22.61	24.11	33.00	PASS
				RB8#7	22.55	24.05	33.00	PASS
				RB15#0	22.47	23.97	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	21.79	23.29	33.00	PASS	
				RB1#7	22.05	23.55	33.00	PASS	
				RB1#14	21.73	23.23	33.00	PASS	
			LCH	RB8#0	21.23	22.73	33.00	PASS	
				RB8#4	21.26	22.76	33.00	PASS	
				RB8#7	21.31	22.81	33.00	PASS	
				RB15#0	21.37	22.87	33.00	PASS	
				RB1#0	21.55	23.05	33.00	PASS	
			MCH	RB1#7	21.94	23.44	33.00	PASS	
		ЗМ		RB1#14	22.32	23.82	33.00	PASS	
BAND4	LTE/TM2			RB8#0	20.90	22.40	33.00	PASS	
				RB8#4	21.17	22.67	33.00	PASS	
				RB8#7	21.16	22.66	33.00	PASS	
				RB15#0	21.19	22.69	33.00	PASS	
				RB1#0	22.57	24.07	33.00	PASS	
				RB1#7	22.17	23.67	33.00	PASS	
				RB1#14	22.63	24.13	33.00	PASS	
			HCH	RB8#0	21.10	22.60	33.00	PASS	
			RB8#4	21.22	22.72	33.00	PASS		
				RB8#7	21.15	22.65	33.00	PASS	
				RB15#0	21.34	22.84	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	23.29	24.79	33.00	PASS
				RB1#13	23.08	24.58	33.00	PASS
				RB1#24	23.07	24.57	33.00	PASS
			LCH	RB12#0	22.31	23.81	33.00	PASS
				RB12#6	22.29	23.79	33.00	PASS
				RB12#13	22.27	23.77	33.00	PASS
				RB25#0	22.28	23.78	33.00	PASS
				RB1#0	23.18	24.68	33.00	PASS
				RB1#13	23.04	24.54	33.00	PASS
				RB1#24 23.33	23.33	24.83	33.00	PASS
BAND4	LTE/TM1	TE/TM1 5M	MCH	RB12#0	22.22	23.72	33.00	PASS
				RB12#6	22.22	23.72	33.00	PASS
				RB12#13	22.28	23.78	33.00	PASS
				RB25#0	22.25	23.75	33.00	PASS
				RB1#0	23.38	24.88	33.00	PASS
				RB1#13	23.35	24.85	33.00	PASS
				RB1#24	23.40	24.90	33.00	PASS
			НСН	RB12#0	22.52	24.02	33.00	PASS
				RB12#6	22.55	24.05	33.00	PASS
				RB12#13	22.61	24.11	33.00	PASS
				RB25#0	22.56	24.06	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	22.49	23.99	33.00	PASS
				RB1#13	22.06	23.56	33.00	PASS
				RB1#24	22.34	23.84	33.00	PASS
			LCH	RB12#0	21.04	22.54	33.00	PASS
				RB12#6	21.10	22.60	33.00	PASS
				RB12#13	21.10	22.60	33.00	PASS
				RB25#0	21.31	22.81	33.00	PASS
				RB1#0	21.63	23.13	33.00	PASS
				RB1#13	21.67	23.17	33.00	PASS
				RB1#24 21.97	21.97	23.47	33.00	PASS
BAND4	LTE/TM2	2 5M	MCH	RB12#0	21.09	22.59	33.00	PASS
				RB12#6	21.02	22.52	33.00	PASS
				RB12#13	21.07	22.57	33.00	PASS
				RB25#0	21.25	22.75	33.00	PASS
				RB1#0	22.14	23.64	33.00	PASS
				RB1#13	21.99	23.49	33.00	PASS
				RB1#24	21.97	23.47	33.00	PASS
			HCH	RB12#0	21.46	22.96	33.00	PASS
				RB12#6	21.37	22.87	33.00	PASS
				RB12#13	21.37	22.87	33.00	PASS
				RB25#0	21.51	23.01	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	
				RB1#0	23.49	24.99	33.00	PASS	
				RB1#25	23.30	24.80	33.00	PASS	
				RB1#49	23.46	24.96	33.00	PASS	
			LCH	RB25#0	22.38	23.88	33.00	PASS	
				RB25#13	22.37	23.87	33.00	PASS	
				RB25#25	22.39	23.89	33.00	PASS	
				RB50#0	22.47	23.97	33.00	PASS	
				RB1#0	22.99	24.49	33.00	PASS	
				RB1#25	23.10	24.60	33.00	PASS	
				RB1#49 23.12	24.62	33.00	PASS		
BAND4	LTE/TM1	ΓΕ/TM1 10M	MCH	RB25#0	22.22	23.72	33.00	PASS	
				RB25#13	22.17	23.67	33.00	PASS	
				RB25#25	22.26	23.76	33.00	PASS	
				RB50#0	22.29	23.79	33.00	PASS	
				RB1#0	23.42	24.92	33.00	PASS	
				RB1#25	23.57	25.07	33.00	PASS	
				RB1#49	23.4	24.90	33.00	PASS	
			HCH	RB25#0	22.56	24.06	33.00	PASS	
				RB25#13	22.56	24.06	33.00	PASS	
				RB25#25	22.54	24.04	33.00	PASS	
				RB50#0	22.60	24.10	33.00	PASS	



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Test	Test	Test	Test		Measured	EIRP	limit	
Band(LTE)	Mode	Bandwidth	channel	Test RB	(dBm)	(dBm)	(dBm)	Verdict
				RB1#0	21.72	23.22	33.00	PASS
				RB1#25	21.99	23.49	33.00	PASS
				RB1#49	22.08	23.58	33.00	PASS
			LCH	RB25#0	21.29	22.79	33.00	PASS
				RB25#13	21.29	22.79	33.00	PASS
				RB25#25 21.41	21.41	22.91	33.00	PASS
				RB50#0	21.28	22.78	33.00	PASS
				RB1#0	21.53	23.03	33.00	PASS
				RB1#25	21.73	23.23	33.00	PASS
				RB1#49 21.48	21.48	22.98	33.00	PASS
BAND4	LTE/TM2	TE/TM2 10M	MCH	RB25#0	21.20	22.70	33.00	PASS
				RB25#13	21.06	22.56	33.00	PASS
				RB25#25	21.21	22.71	33.00	PASS
				RB50#0	21.09	22.59	33.00	PASS
				RB1#0	22.14	23.64	33.00	PASS
				RB1#25	22.25	23.75	33.00	PASS
				RB1#49	21.90	23.40	33.00	PASS
			HCH	RB25#0	21.40	22.90	33.00	PASS
				RB25#13	21.38	22.88	33.00	PASS
				RB25#25	21.37	22.87	33.00	PASS
				RB50#0	21.52	23.02	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	23.31	24.81	33.00	PASS
				RB1#38	23.22	24.72	33.00	PASS
				RB1#74	23.07	24.57	33.00	PASS
			LCH	RB36#0	22.35	23.85	33.00	PASS
				RB36#18	22.28	23.78	33.00	PASS
				RB36#39	22.28	23.78	33.00	PASS
				RB75#0	22.35	23.85	33.00	PASS
				RB1#0	23.30	24.80	33.00	PASS
				RB1#38	23.37	24.87	33.00	PASS
		15M	MCH	RB1#74	23.37	24.87	33.00	PASS
BAND4	LTE/TM1			RB36#0	22.25	23.75	33.00	PASS
				RB36#18	22.26	23.76	33.00	PASS
				RB36#39	22.37	23.87	33.00	PASS
				RB75#0	22.27	23.77	33.00	PASS
				RB1#0	23.49	24.99	33.00	PASS
				RB1#38	23.56	25.06	33.00	PASS
				RB1#74	23.44	24.94	33.00	PASS
			HCH	RB36#0	22.55	24.05	33.00	PASS
				RB36#18	22.53	24.03	33.00	PASS
				RB36#39	22.62	24.12	33.00	PASS
				RB75#0	22.59	24.09	33.00	PASS



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Test	Test	Test	Test	Test RB	Measured	EIRP	limit	Verdict	
Band(LTE)	Mode	Bandwidth	channel		(dBm)	(dBm)	(dBm)		
				RB1#0	22.13	23.63	33.00	PASS	
				RB1#38	22.10	23.60	33.00	PASS	
				RB1#74	22.23	23.73	33.00	PASS	
			LCH	RB36#0	21.31	22.81	33.00	PASS	
				RB36#18	21.28	22.78	33.00	PASS	
				RB36#39	21.17	22.67	33.00	PASS	
				RB75#0	21.38	22.88	33.00	PASS	
				RB1#0	21.88	23.38	33.00	PASS	
			МСН	RB1#38	21.55	23.05	33.00	PASS	
					RB1#74	22.43	23.93	33.00	PASS
BAND4	LTE/TM2	15M		RB36#0	21.20	22.70	33.00	PASS	
				RB36#18	21.14	22.64	33.00	PASS	
				RB36#39	21.26	22.76	33.00	PASS	
				RB75#0	21.25	22.75	33.00	PASS	
				RB1#0	22.10	23.60	33.00	PASS	
				RB1#38	21.95	23.45	33.00	PASS	
				RB1#74	21.81	23.31	33.00	PASS	
		HCH	RB36#0	21.38	22.88	33.00	PASS		
			RB36#18	21.44	22.94	33.00	PASS		
				RB36#39	21.46	22.96	33.00	PASS	
				RB75#0	21.53	23.03	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	23.34	24.84	33.00	PASS
				RB1#50	23.28	24.78	33.00	PASS
				RB1#99	23.00	24.50	33.00	PASS
			LCH	RB50#0	22.35	23.85	33.00	PASS
				RB50#25	22.35	23.85	33.00	PASS
				RB50#50	22.18	23.68	33.00	PASS
				RB100#0	22.39	23.89	33.00	PASS
				RB1#0	23.57	25.07	33.00	PASS
				RB1#50	23.40	24.90	33.00	PASS
			RB1#99 23.12 MCH RB50#0 22.21 RB50#25 22.27 RB50#50 22.29	23.12	24.62	33.00	PASS	
BAND4	LTE/TM1	20M		RB50#0	22.21	23.71	33.00	PASS
				RB50#25	22.27	23.77	33.00	PASS
				RB50#50	22.29	23.79	33.00	PASS
				RB100#0	22.15	23.65	33.00	PASS
				RB1#0	23.62	25.12	33.00	PASS
				RB1#50	23.49	24.99	33.00	PASS
				RB1#99	23.28	24.78	33.00	PASS
			HCH	RB50#0	22.43	23.93	33.00	PASS
				RB50#25	22.53	24.03	33.00	PASS
				RB50#50	22.44	23.94	33.00	PASS
				RB100#0	22.43	23.93	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	21.67	23.17	33.00	PASS
				RB1#50	22.07	23.57	33.00	PASS
				RB1#99	21.91	23.41	33.00	PASS
			LCH	RB50#0	21.21	22.71	33.00	PASS
				RB50#25	21.19	22.69	33.00	PASS
				RB50#50	21.07	22.57	33.00	PASS
				RB100#0	21.11	22.61	33.00	PASS
				RB1#0	21.67	23.17	33.00	PASS
				RB1#50	21.83	23.33	33.00	PASS
				RB1#99	21.76	23.26	33.00	PASS
BAND4	LTE/TM2	20M	MCH	RB50#0	20.98	22.48	33.00	PASS
				RB50#25	21.20	22.70	33.00	PASS
				RB50#50	21.18	22.68	33.00	PASS
				RB100#0	21.13	22.63	33.00	PASS
				RB1#0	21.9	23.40	33.00	PASS
			НСН	RB1#50	22.03	23.53	33.00	PASS
				RB1#99	21.78	23.28	33.00	PASS
				RB50#0	21.24	22.74	33.00	PASS
				RB50#25	21.44	22.94	33.00	PASS
				RB50#50	21.47	22.97	33.00	PASS
				RB100#0	21.40	22.90	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

c: RBW > emission bandwidth, VBW > $3 \times RBW$.

Detector: RMS



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
Band 4	TM1/20M	LCH	4.52	13	PASS
		MCH	4.81	13	PASS
		HCH	4.43	13	PASS
	TM2/20M	LCH	5.51	13	PASS
		MCH	5.80	13	PASS
		HCH	5.57	13	PASS



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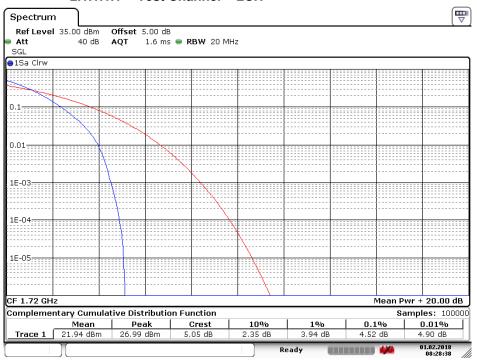
Part II - Test Plots

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



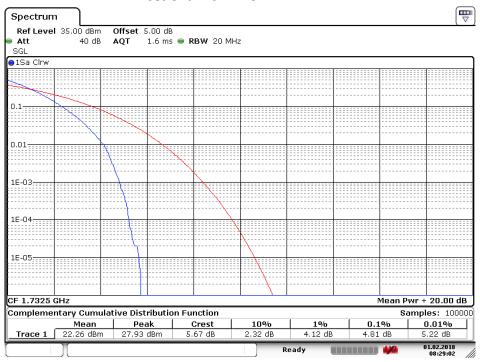
Date: 1.FEB.2018 08:28:39



Report No.: SZEM171201298701

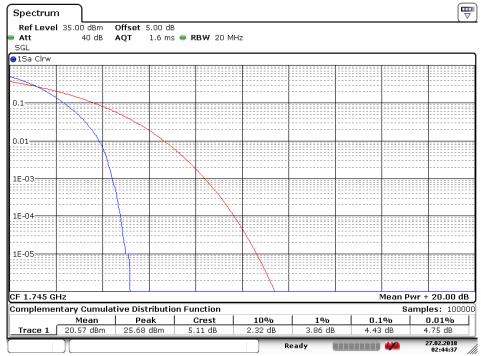
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2.1.1.1.2 Test Channel = MCH



Date: 1.FEB.2018 08:29:02

2.1.1.1.3 Test Channel = HCH



Date: 27.FEB.2018 02:44:38

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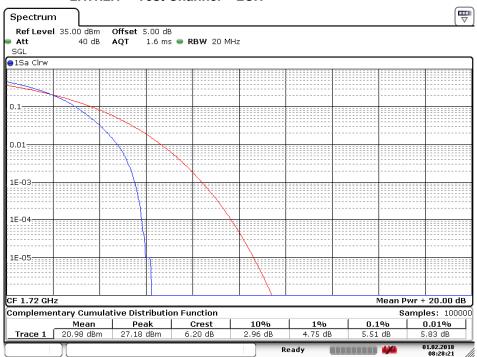


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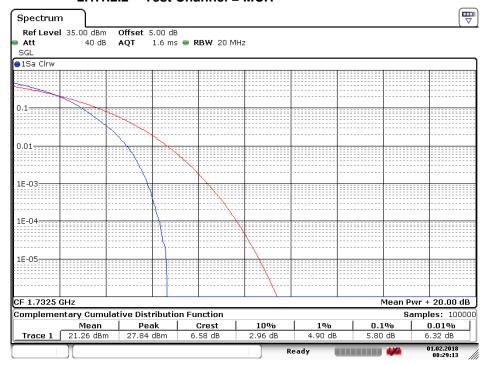
2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz

2.1.1.2.1 Test Channel = LCH



Date: 1.FEB.2018 08:28:22

2.1.1.2.2 Test Channel = MCH



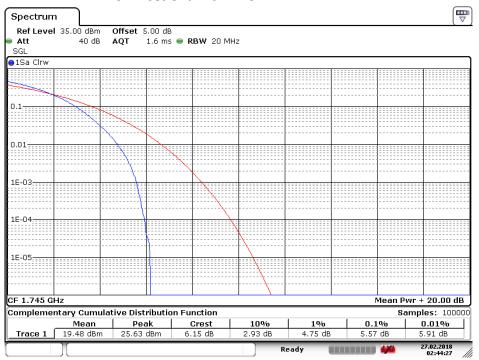
Date: 1.FEB.2018 08:29:14



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2.1.1.2.3 Test Channel = HCH



Date: 27.FEB.2018 02:44:28



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3 Modulation Characteristics

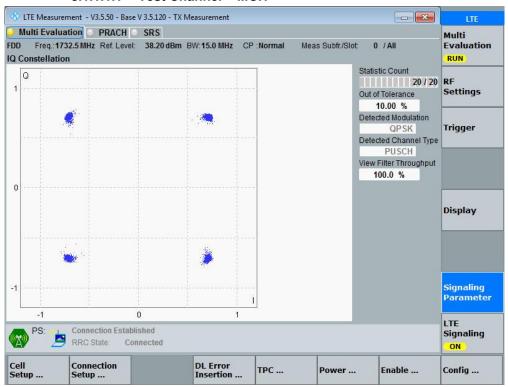
Part I - Test Plots

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



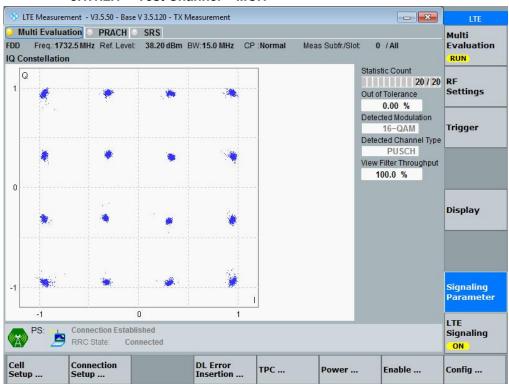


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3.1.1.2 Test Mode = LTE /TM2 20MHz

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	1.10	1.29	PASS
	TM1/1.4MHz	MCH	1.09	1.29	PASS
		HCH	1.10	1.36	PASS
		LCH	1.10	1.31	PASS
	TM2/1.4MHz	MCH	1.10	1.29	PASS
		HCH	1.10	1.29	PASS
		LCH	2.69	2.93	PASS
	TM1/3MHz	MCH	2.69	2.93	PASS
		HCH	2.69	2.94	PASS
		LCH	2.69	2.94	PASS
	TM2/3MHz	MCH	2.69	2.93	PASS
		HCH	2.69	2.96	PASS
		LCH	4.48	4.94	PASS
	TM1/5MHz	MCH	4.47	4.92	PASS
		HCH	4.48	4.93	PASS
	TM2/ 5MHz	LCH	4.48	4.94	PASS
		MCH	4.48	4.91	PASS
		HCH	4.49	4.98	PASS
Band 4		LCH	8.93	9.67	PASS
	TM1/10MHz	MCH	8.91	9.67	PASS
		HCH	8.95	9.79	PASS
		LCH	8.93	9.63	PASS
	TM2/ 10MHz	MCH	8.93	9.63	PASS
		HCH	8.93	9.71	PASS
		LCH	13.43	14.84	PASS
	TM1/ 15MHz	MCH	13.40	14.69	PASS
		HCH	13.43	14.72	PASS
		LCH	13.43	14.72	PASS
	TM2/ 15MHz	MCH	13.46	14.66	PASS
		HCH	13.46	14.66	PASS
		LCH	17.86	19.34	PASS
	TM1/20MHz	MCH	17.86	19.30	PASS
		HCH	17.82	19.18	PASS
		LCH	17.82	19.34	PASS
	TM2/ 20MHz	MCH	17.90	19.34	PASS
		HCH	17.90	19.42	PASS



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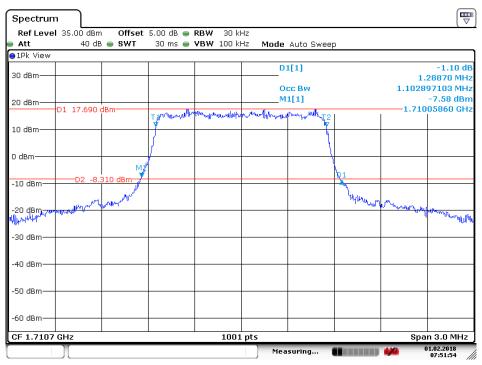
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4.1 For LTE

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



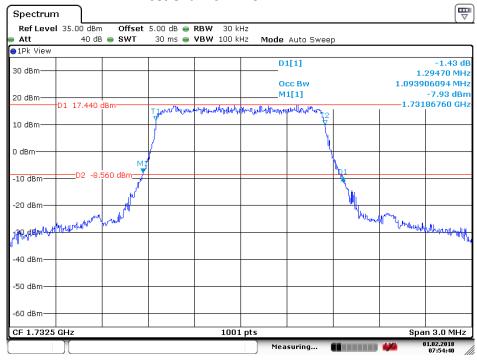
Date: 1.FEB.2018 07:51:54



Report No.: SZEM171201298701

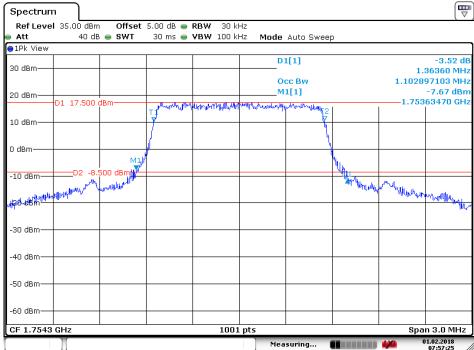
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4.1.1.1.2 Test Channel = MCH



Date: 1.FEB.2018 07:54:41





Date: 1.FEB.2018 07:57:25

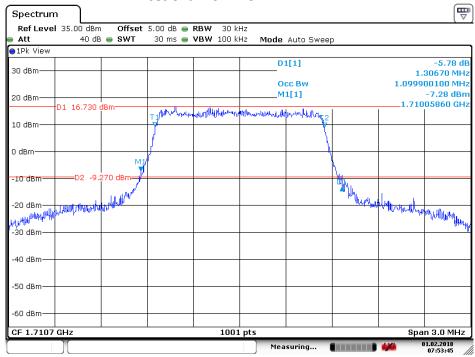


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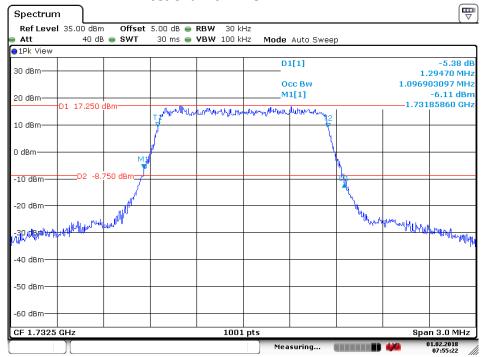
4.1.1.2 est Mode = LTE/TM2 1.4MHz

4.1.1.2.1 Test Channel = LCH



Date: 1.FEB.2018 07:53:46

4.1.1.2.2 Test Channel = MCH



Date: 1.FEB.2018 07:55:22

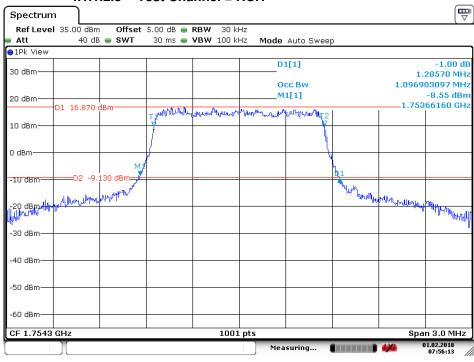
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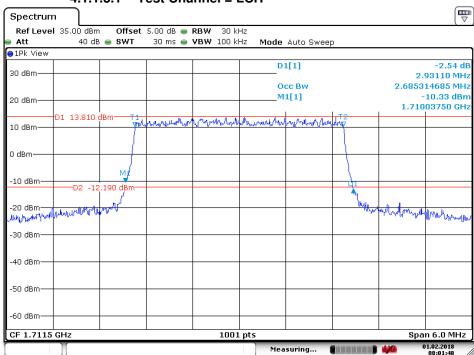




Date: 1.FEB.2018 07:56:14

4.1.1.3 Test Mode = LTE/TM1 3MHz

4.1.1.3.1 Test Channel = LCH



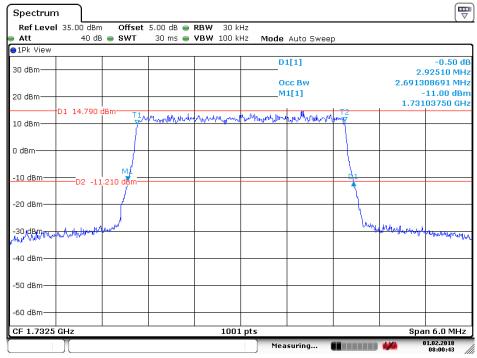
Date: 1.FEB.2018 08:01:49



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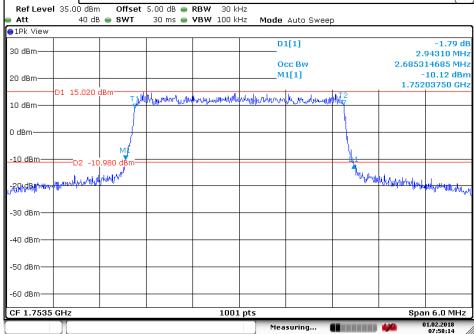
4.1.1.3.2 Test Channel = MCH



Date: 1.FEB.2018 08:00:44



4.1.1.3.3 Test Channel = HCH



Date: 1.FEB.2018 07:58:15

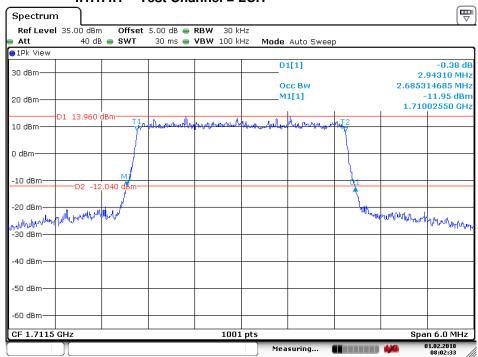


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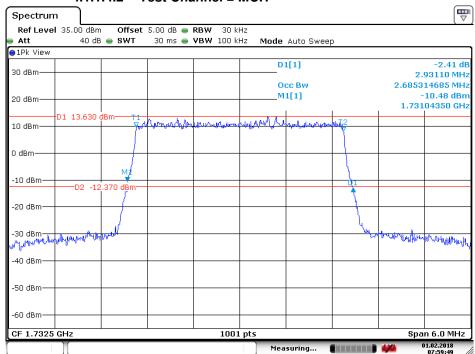
4.1.1.4 Test Mode = LTE/TM2 3MHz

4.1.1.4.1 Test Channel = LCH



Date: 1.FEB.2018 08:02:33

4.1.1.4.2 Test Channel = MCH



Date: 1.FEB.2018 07:59:50

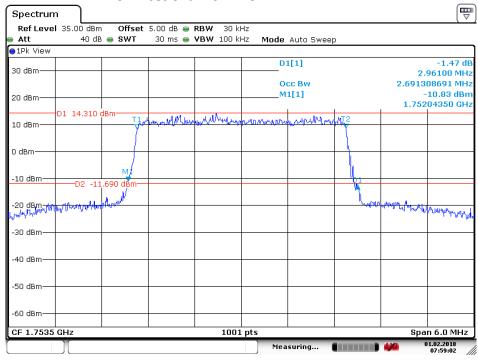
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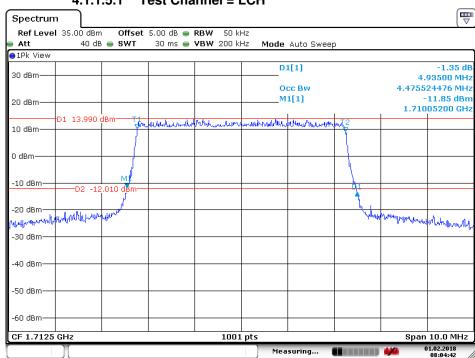
4.1.1.4.3 Test Channel = HCH



Date: 1.FEB.2018 07:59:02

4.1.1.5 Test Mode = LTE/TM1 5MHz

4.1.1.5.1 Test Channel = LCH



Date: 1.FEB.2018 08:04:42

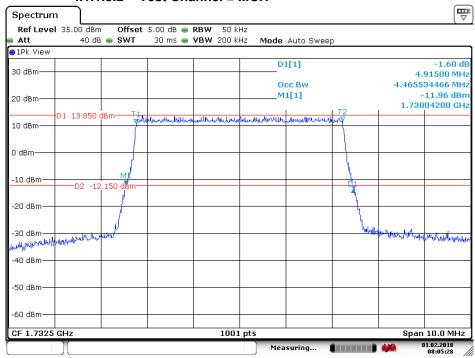
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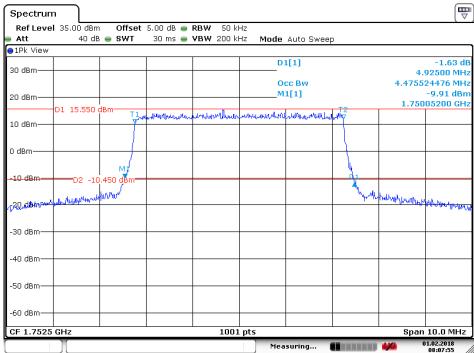
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4.1.1.5.2 Test Channel = MCH



Date: 1.FEB.2018 08:05:28





Date: 1.FEB.2018 08:07:56

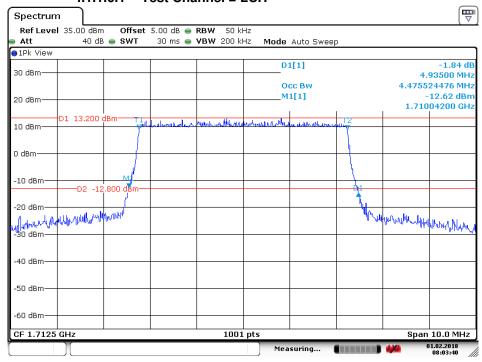


Report No.: SZEM171201298701

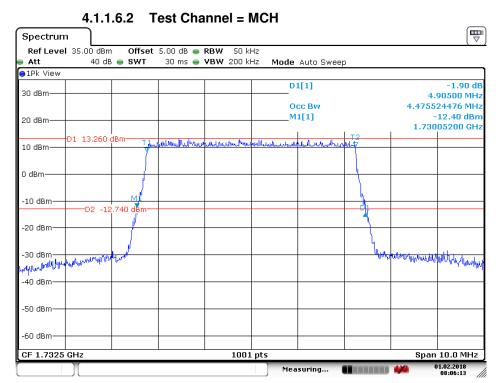
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4.1.1.6 Test Mode = LTE/TM2 5MHz

4.1.1.6.1 Test Channel = LCH



Date: 1.FEB.2018 08:03:40



Date: 1.FEB.2018 08:06:14

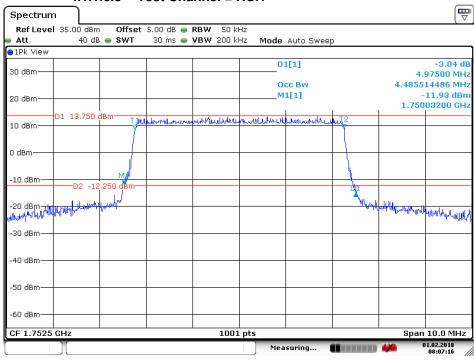
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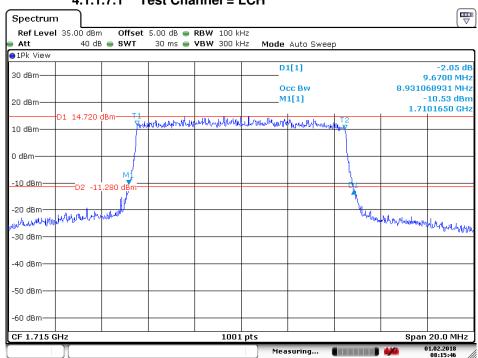
4.1.1.6.3 Test Channel = HCH



Date: 1.FEB.2018 08:07:16

4.1.1.7 Test Mode = LTE/TM1 10MHz

4.1.1.7.1 Test Channel = LCH



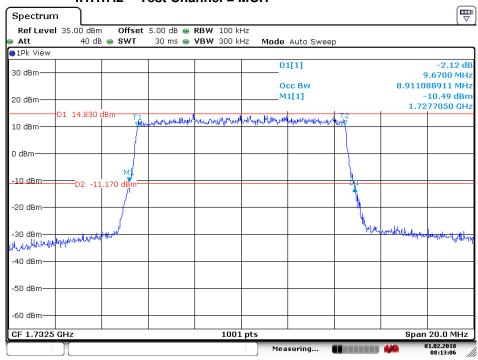
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Report No.: SZEM171201298701

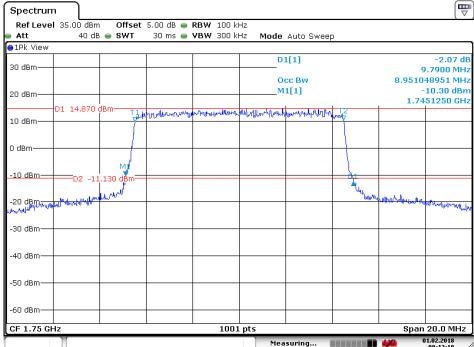
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4.1.1.7.2 Test Channel = MCH



Date: 1.FEB.2018 08:13:07





Date: 1.FEB.2018 08:12:19

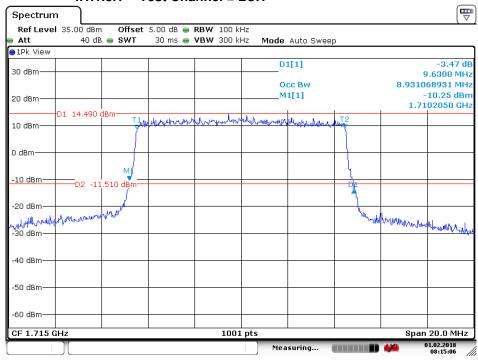


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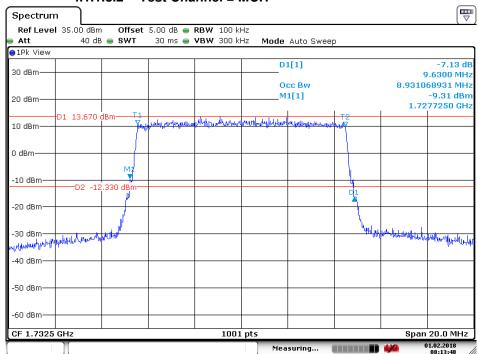
4.1.1.8 Test Mode = LTE/TM2 10MHz

4.1.1.8.1 Test Channel = LCH



Date: 1.FEB.2018 08:15:07

4.1.1.8.2 Test Channel = MCH



Date: 1.FEB.2018 08:13:48

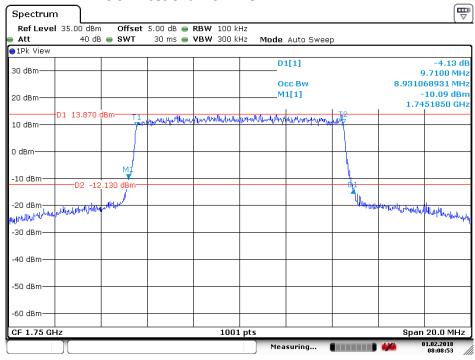
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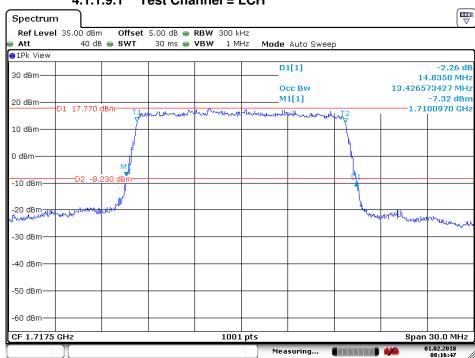
4.1.1.8.3 Test Channel = HCH



Date: 1.FEB.2018 08:08:53

4.1.1.9 Test Mode = LTE/TM1 15MHz

4.1.1.9.1 Test Channel = LCH



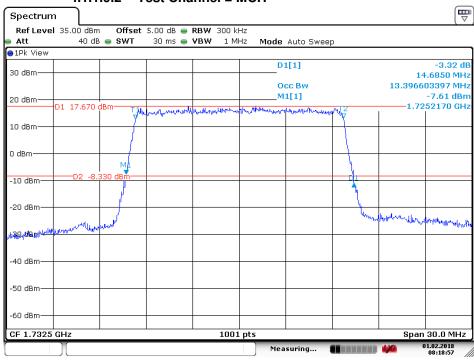
Date: 1.FEB.2018 08:16:47



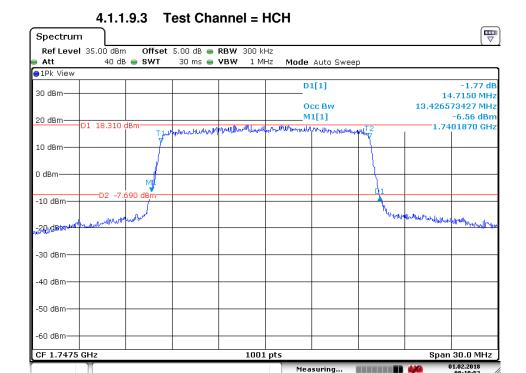
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4.1.1.9.2 Test Channel = MCH



Date: 1.FEB.2018 08:18:57



Date: 1.FEB.2018 08:19:52

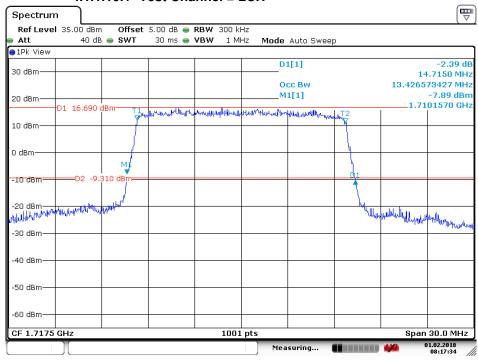


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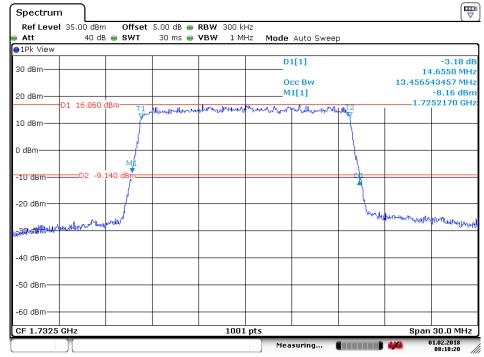
4.1.1.10 Test Mode = LTE/TM2 15MHz

4.1.1.10.1 Test Channel = LCH



Date: 1.FEB.2018 08:17:35

4.1.1.10.2 Test Channel = MCH



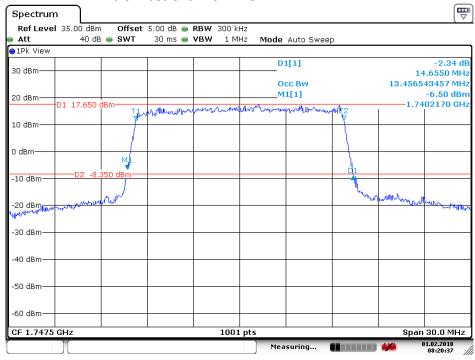
Date: 1.FEB.2018 08:18:20



Report No.: SZEM171201298701

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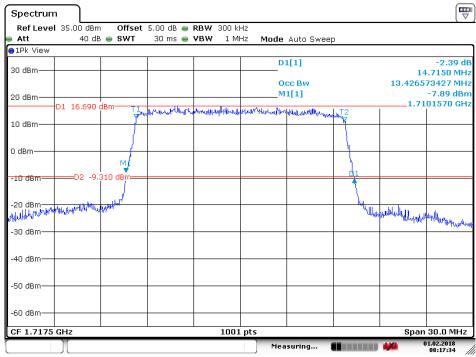
4.1.1.10.3 Test Channel = HCH



Date: 1.FEB.2018 08:20:37

4.1.1.11 Test Mode = LTE/TM1 20MHz

4.1.1.11.1 Test Channel = LCH



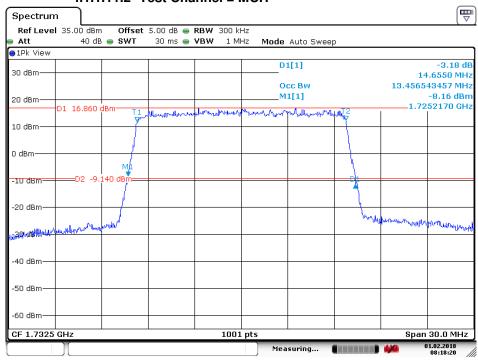
Date: 1.FEB.2018 08:17:35



Report No.: SZEM171201298701

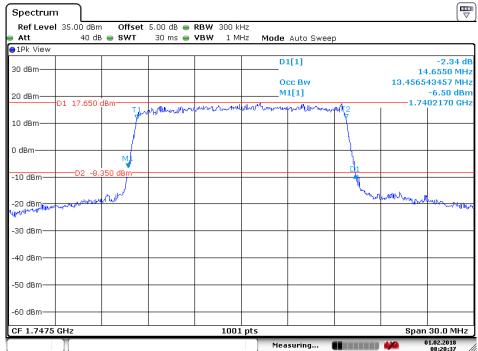
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4.1.1.11.2 Test Channel = MCH



Date: 1.FEB.2018 08:18:20





Date: 1.FEB.2018 08:20:37

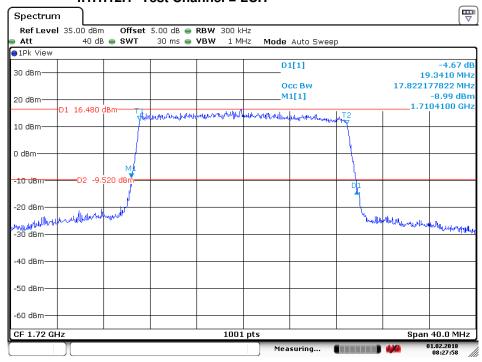


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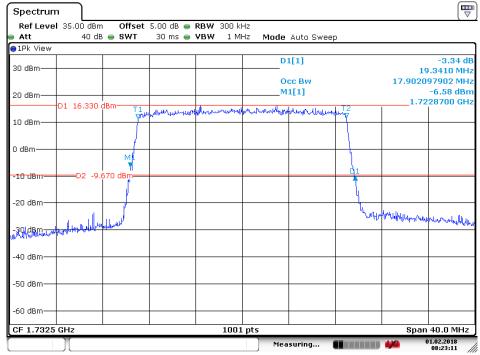
4.1.1.12 Test Mode = LTE/TM2 20MHz

4.1.1.12.1 Test Channel = LCH



Date: 1.FEB.2018 08:27:58





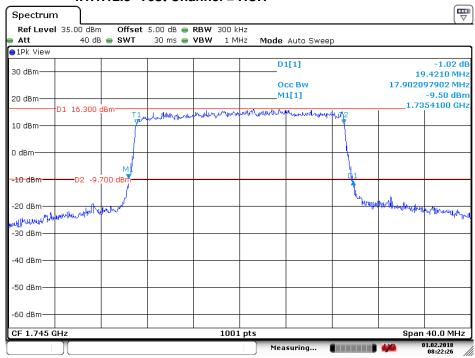
Date: 1.FEB.2018 08:23:12



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4.1.1.12.3 Test Channel = HCH



Date: 1.FEB.2018 08:22:26



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5 Band Edges Compliance

Part I -

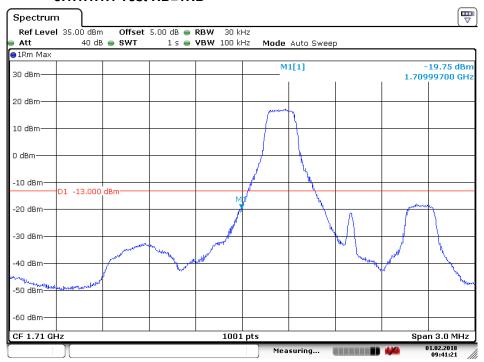
5.1 For LTE

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



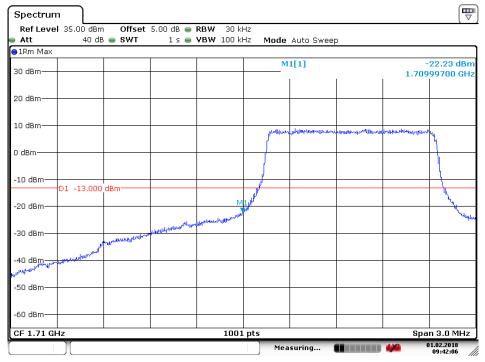
Date: 1.FEB.2018 09:41:21



Report No.: SZEM171201298701

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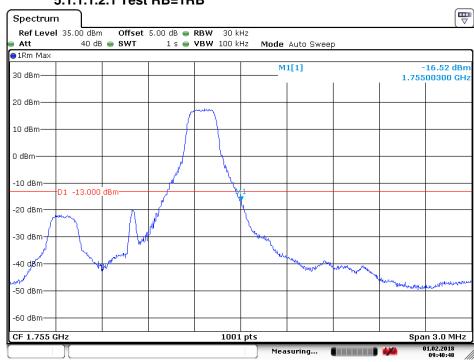
5.1.1.1.1.2 Test RB=6RB



Date: 1.FEB.2018 09:42:07

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



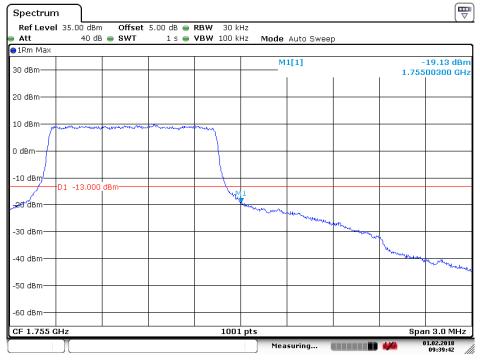
Date: 1.FEB.2018 09:40:48



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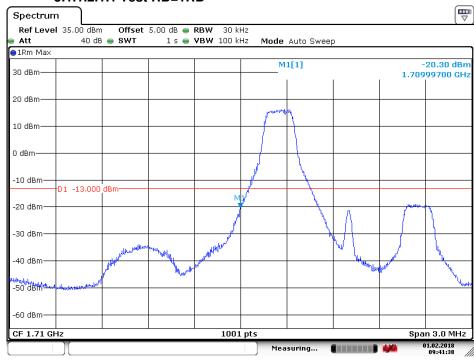
5.1.1.1.2.2 Test RB=6RB



Date: 1.FEB.2018 09:39:43

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



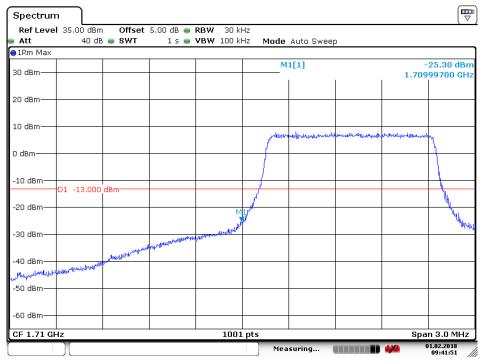
Date: 1.FEB.2018 09:41:39



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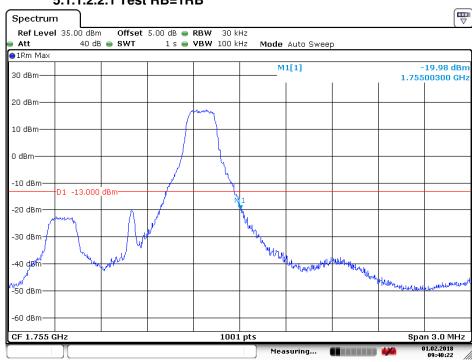
5.1.1.2.1.2 Test RB=6RB



Date: 1.FEB.2018 09:41:52

5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



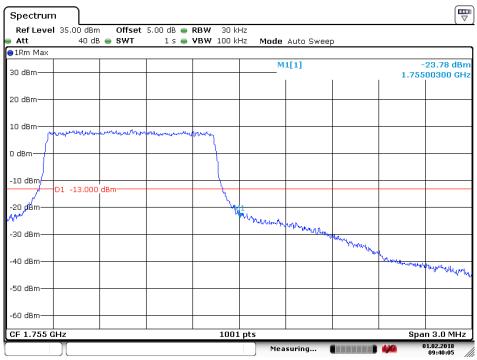
Date: 1.FEB.2018 09:40:22



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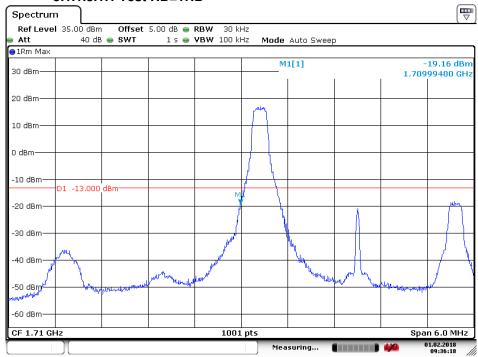
5.1.1.2.2.2 Test RB=6RB



Date: 1.FEB.2018 09:40:06

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



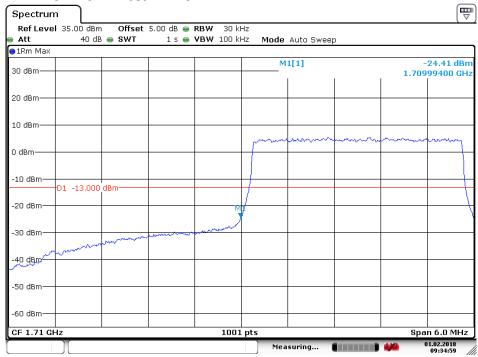
Date: 1.FEB.2018 09:36:18



Report No.: SZEM171201298701

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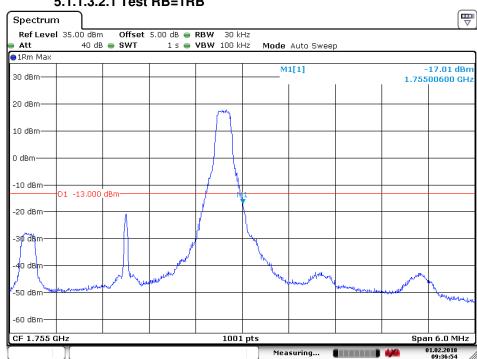
5.1.1.3.1.2 Test RB=15RB



Date: 1.FEB.2018 09:34:59

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



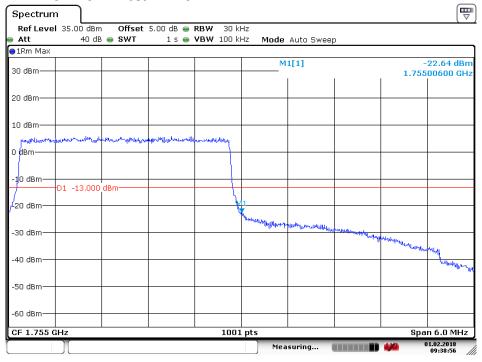
Date: 1.FEB.2018 09:36:55



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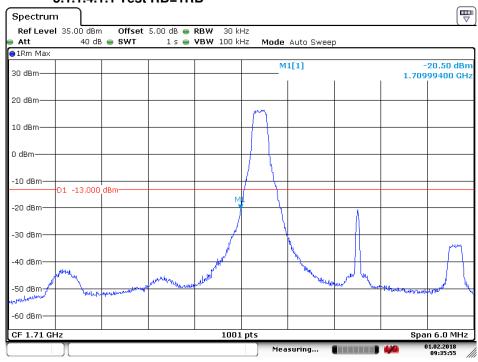
5.1.1.3.2.2 Test RB=15RB



Date: 1.FEB.2018 09:38:56

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



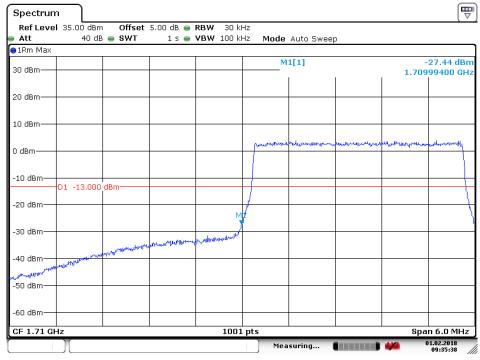
Date: 1.FEB.2018 09:35:56



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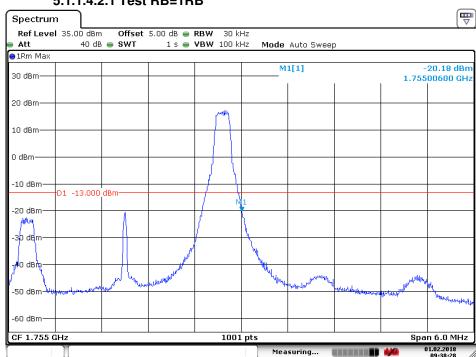
5.1.1.4.1.2 Test RB=15RB



Date: 1.FEB.2018 09:35:39

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



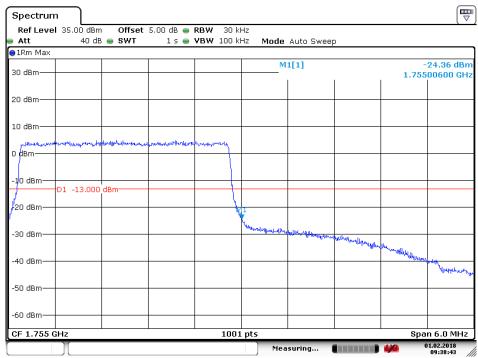
Date: 1.FEB.2018 09:38:28



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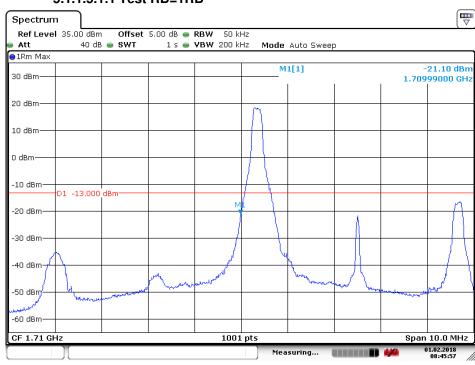
5.1.1.4.3 Test RB=15RB



Date: 1.FEB.2018 09:38:43

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



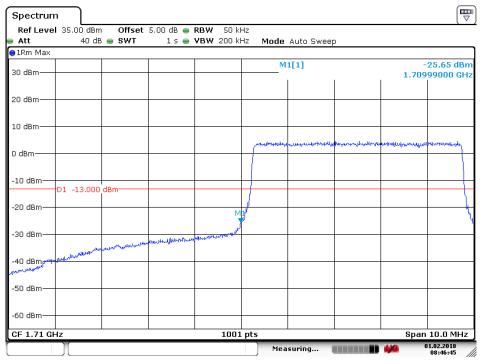
Date: 1.FEB.2018 08:45:58



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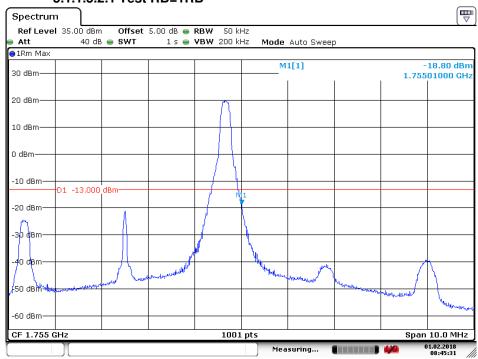
5.1.1.5.1.2 Test RB=25RB



Date: 1.FEB.2018 08:46:45

5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



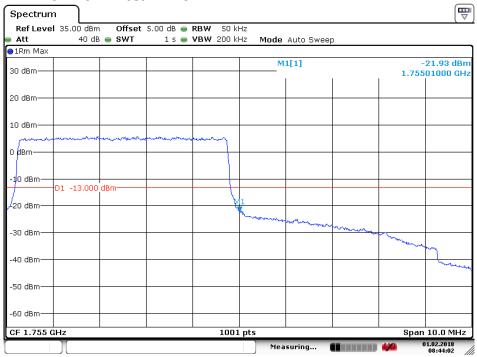
Date: 1.FEB.2018 08:45:32



Report No.: SZEM171201298701

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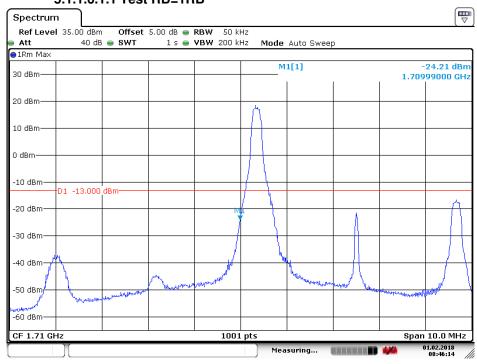
5.1.1.5.2.2 Test RB=25RB



Date: 1.FEB.2018 08:44:02

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



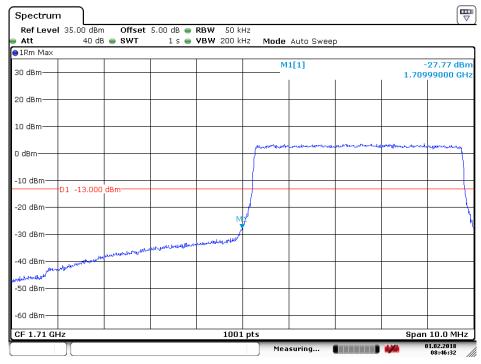
Date: 1.FEB.2018 08:46:15



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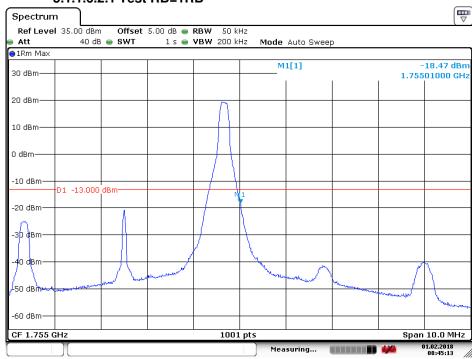
5.1.1.6.1.2 Test RB=25RB



Date: 1.FEB.2018 08:46:32

5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



Date: 1.FEB.2018 08:45:14



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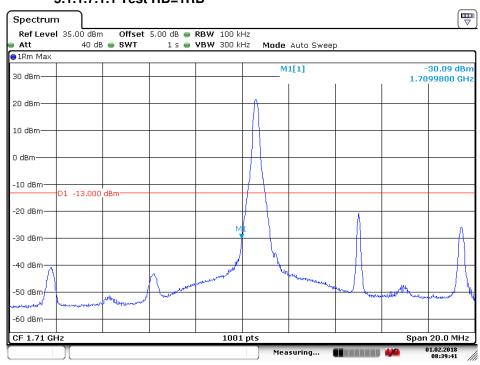
5.1.1.6.2.2 Test RB=25RB



Date: 1.FEB.2018 08:44:18

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: 1.FEB.2018 08:39:41



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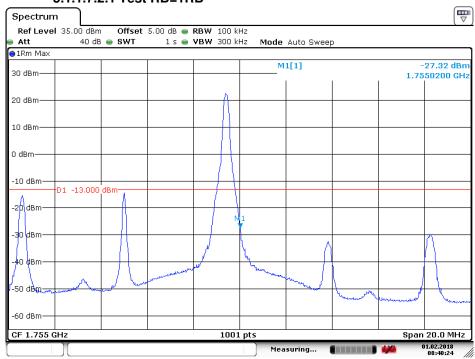
5.1.1.7.1.2 Test RB=50RB



Date: 1.FEB.2018 08:38:53

5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 1.FEB.2018 08:40:24



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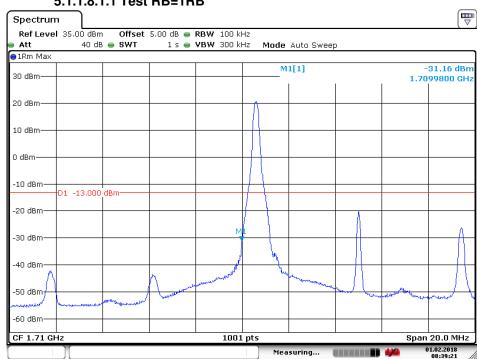
5.1.1.7.2.2 Test RB=50RB



Date: 1.FEB.2018 08:41:12

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: 1.FEB.2018 08:39:22



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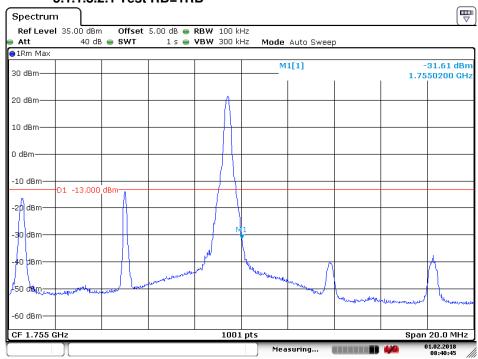
5.1.1.8.1.2 Test RB=50RB



Date: 1.FEB.2018 08:39:08

5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



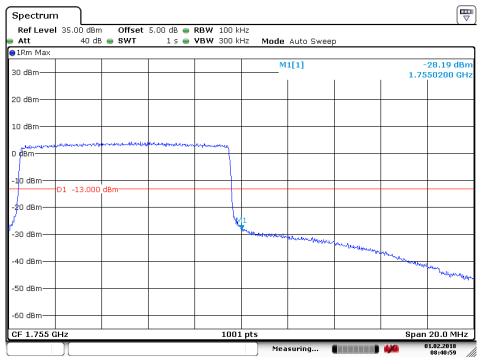
Date: 1.FEB.2018 08:40:45



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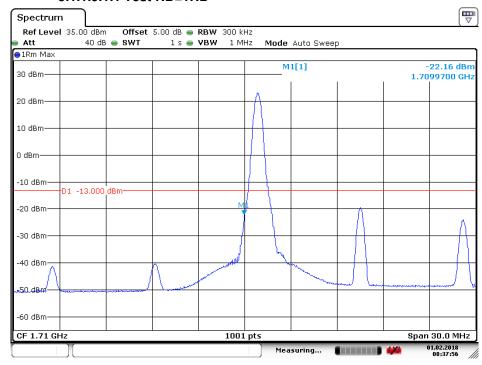
5.1.1.8.2.2 Test RB=50RB



Date: 1.FEB.2018 08:40:59

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



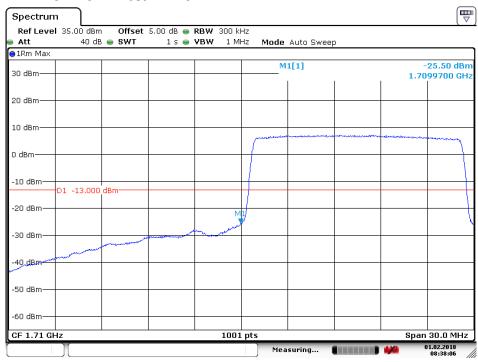
Date: 1.FEB.2018 08:37:56



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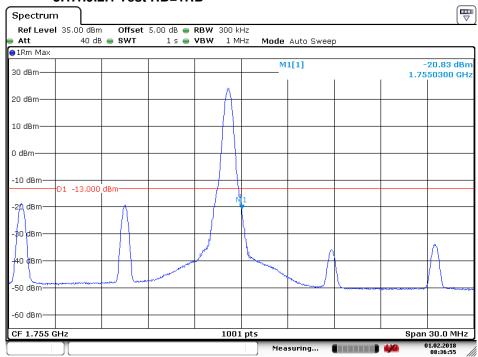
5.1.1.9.1.2 Test RB=75RB



Date: 1.FEB.2018 08:38:07

5.1.1.9.2 Test Channel = HCH

5.1.1.9.2.1 Test RB=1RB



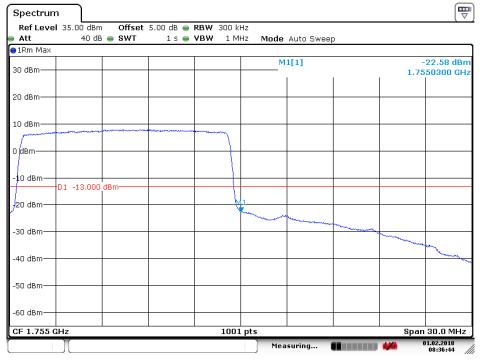
Date: 1.FEB.2018 08:36:56



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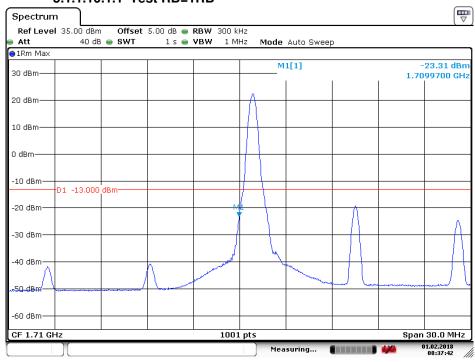
5.1.1.9.2.2 Test RB=75RB



Date: 1.FEB.2018 08:36:44

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: 1.FEB.2018 08:37:43



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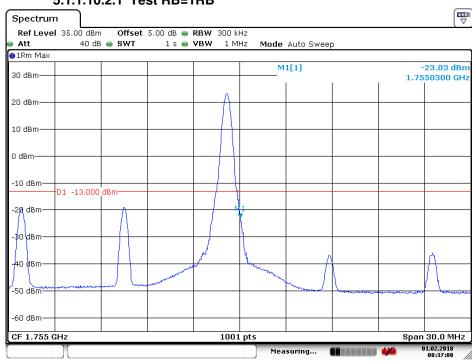
5.1.1.10.1.2 Test RB=75RB



Date: 1.FEB.2018 08:38:20

5.1.1.10.2 Test Channel = HCH

5.1.1.10.2.1 Test RB=1RB



Date: 1.FEB.2018 08:37:09



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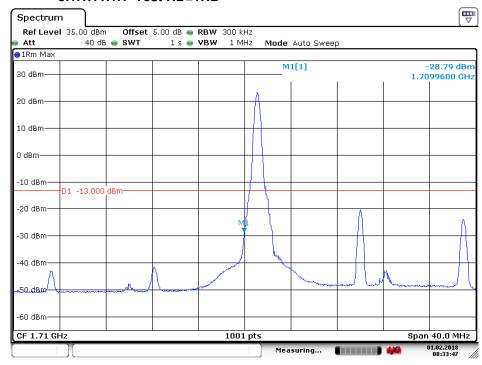
5.1.1.10.2.2 Test RB=75RB



Date: 1.FEB.2018 08:36:24

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



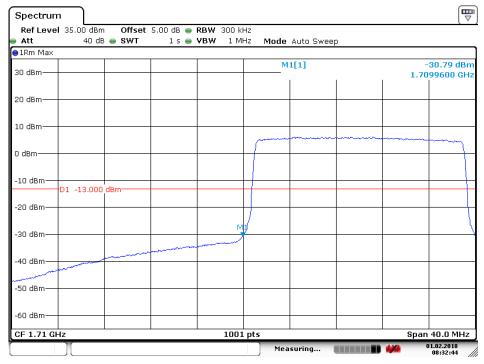
Date: 1.FEB.2018 08:33:47



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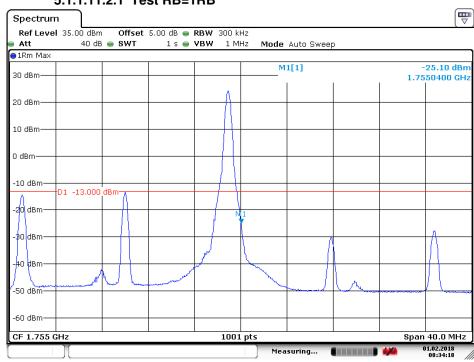
5.1.1.11.1.2 Test RB=100RB



Date: 1.FEB.2018 08:32:44

5.1.1.11.2 Test Channel = HCH

5.1.1.11.2.1 Test RB=1RB



Date: 1.FEB.2018 08:34:19



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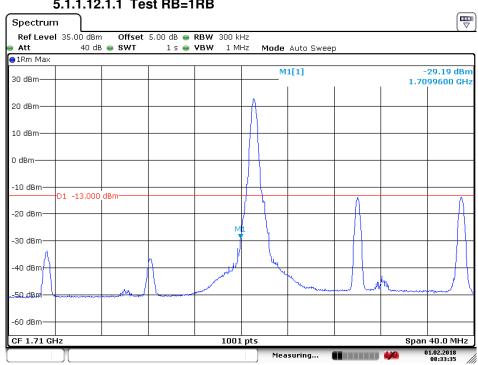
5.1.1.11.2.2 Test RB=100RB



Date: 1.FEB.2018 08:35:04

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: 1.FEB.2018 08:33:36

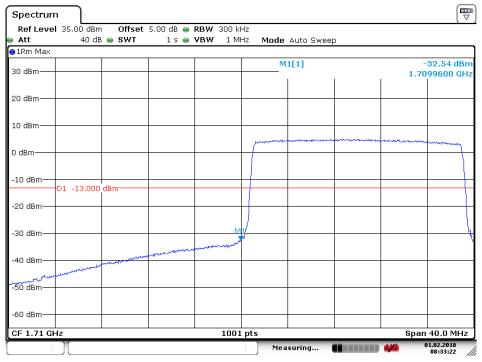
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sqs.com/en/Terms-and-Conditions.aspx and, Instruction of leading the Company subject to Its General Conditions for Electronic Potential and English and Conditions for Electronic Potential and English and Conditions for Electronic Potential at <a href="http://www.sgs.com/en/lerms-and-Conditions/Terms-an



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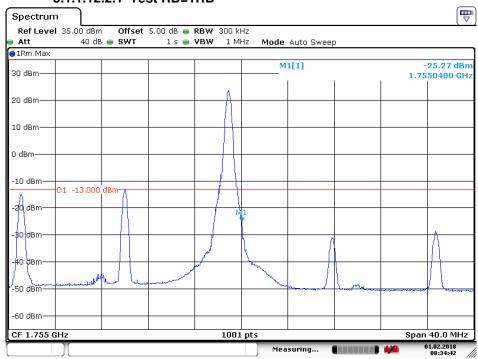
5.1.1.12.1.2 Test RB=100RB



Date: 1.FEB.2018 08:33:23

5.1.1.12.2 Test Channel = HCH

5.1.1.12.2.1 Test RB=1RB



Date: 1.FEB.2018 08:34:42



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5.1.1.12.2.2 Test RB=100RB



Date: 1.FEB.2018 08:34:53



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

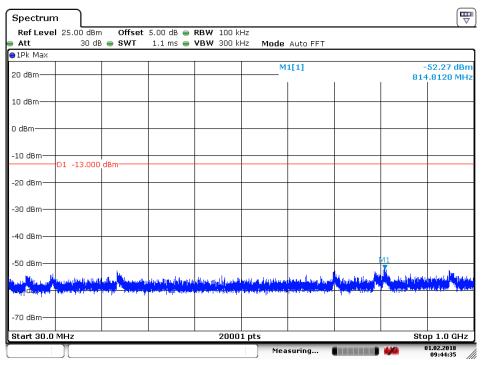
Part I - Test Plots

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

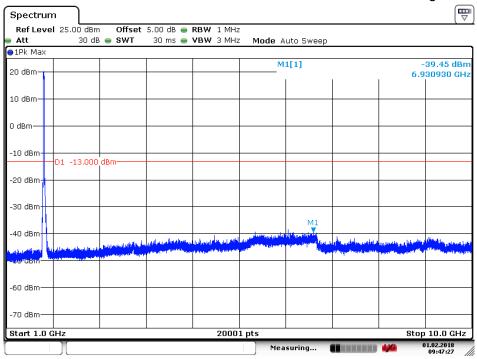


Date: 1.FEB.2018 09:44:35

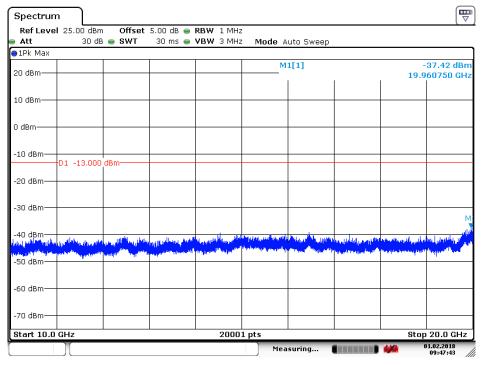


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Date: 1.FEB.2018 09:47:27



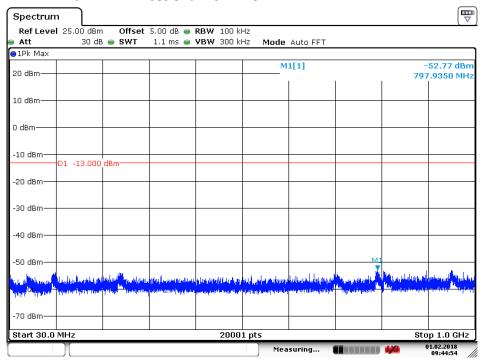
Date: 1.FEB.2018 09:47:44



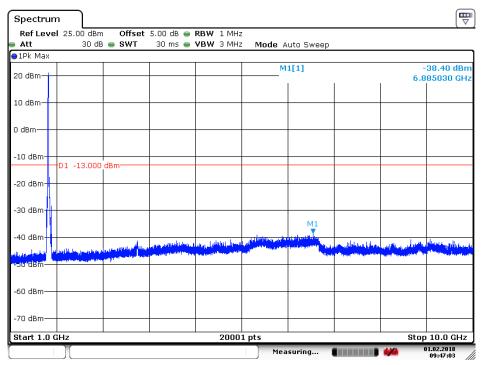
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6.1.1.1.2 Test Channel = MCH



Date: 1.FEB.2018 09:44:54

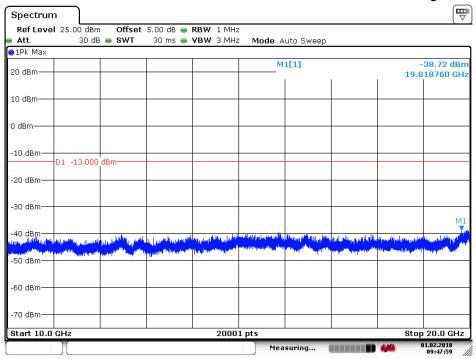


Date: 1.FEB.2018 09:47:03



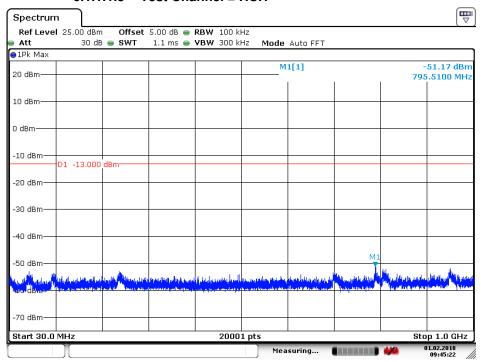
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Date: 1.FEB.2018 09:48:00

6.1.1.1.3 Test Channel = HCH

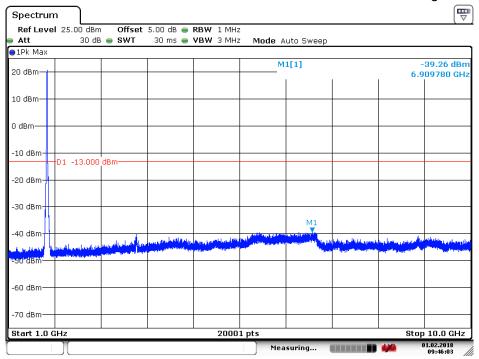


Date: 1.FEB.2018 09:45:22

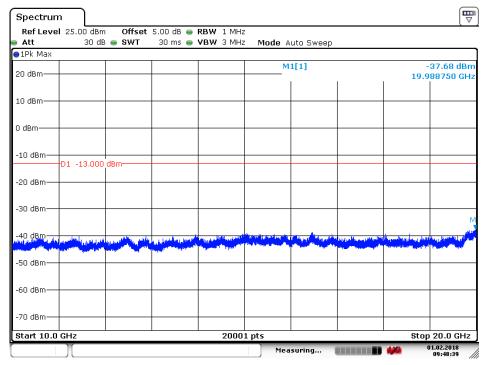


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Date: 1.FEB.2018 09:46:03



Date: 1.FEB.2018 09:48:39



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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

7.1.1.1.1 Test Chamier = LCH					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
1199.500000	-66.32	-13.00	53.32	Vertical	
1568.000000	-66.35	-13.00	53.35	Vertical	
2543.000000	-58.87	-13.00	45.87	Vertical	
4454.700000	-67.87	-13.00	54.87	Vertical	
5487.875000	-66.66	-13.00	53.66	Vertical	
6531.125000	-65.62	-13.00	52.62	Vertical	
1200.000000	-67.06	-13.00	54.06	Horizontal	
1623.000000	-65.59	-13.00	52.59	Horizontal	
2679.000000	-57.71	-13.00	44.71	Horizontal	
3543.725000	-68.84	-13.00	55.84	Horizontal	
4936.675000	-66.67	-13.00	53.67	Horizontal	
7240.925000	-64.85	-13.00	51.85	Horizontal	

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1100.000000	-66.52	-13.00	53.52	Vertical
1573.500000	-66.32	-13.00	53.32	Vertical
2602.500000	-58.11	-13.00	45.11	Vertical
3744.250000	-68.21	-13.00	55.21	Vertical
5222.025000	-66.68	-13.00	53.68	Vertical
7040.725000	-64.76	-13.00	51.76	Vertical
1388.500000	-67.46	-13.00	54.46	Horizontal
1667.000000	-65.19	-13.00	52.19	Horizontal
2580.500000	-58.84	-13.00	45.84	Horizontal
4206.400000	-67.10	-13.00	54.10	Horizontal
5222.350000	-66.71	-13.00	53.71	Horizontal
6572.400000	-65.20	-13.00	52.20	Horizontal



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7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1224.500000	-66.21	-13.00	53.21	Vertical
1576.500000	-65.98	-13.00	52.98	Vertical
2469.500000	-58.87	-13.00	45.87	Vertical
3705.575000	-68.53	-13.00	55.53	Vertical
4720.875000	-66.64	-13.00	53.64	Vertical
7492.150000	-65.13	-13.00	52.13	Vertical
1271.000000	-67.45	-13.00	54.45	Horizontal
1622.500000	-65.61	-13.00	52.61	Horizontal
2580.500000	-58.88	-13.00	45.88	Horizontal
3725.725000	-68.59	-13.00	55.59	Horizontal
4754.025000	-66.96	-13.00	53.96	Horizontal
7731.350000	-64.83	-13.00	51.83	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.



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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	-2.03	-0.00118	PASS
				VN	2.46	0.00143	PASS
				VH	-7.73	-0.00449	PASS
			TN	VL	1.49	0.00086	PASS
	LTE/TM1 20MHz	MCH		VN	-2.84	-0.00164	PASS
		1		VH	2.63	0.00152	PASS
		НСН	TN	VL	-6.42	-0.00368	PASS
				VN	-5.17	-0.00296	PASS
LTEband4				VH	-2.49	-0.00143	PASS
LI EDANU4	LTE/TM2 20MHz	LCH	TN	VL	-4.28	-0.00249	PASS
				VN	0.33	0.00019	PASS
				VH	-5.10	-0.00297	PASS
		МСН	TN	VL	1.56	0.00090	PASS
				VN	-2.80	-0.00162	PASS
				VH	2.59	0.00149	PASS
		НСН	TN	VL	-3.08	-0.00177	PASS
				VN	-6.21	-0.00356	PASS
				VH	4.98	0.00285	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	-4.40	-0.00256	PASS
				-20	-1.34	-0.00078	PASS
				-10	2.38	0.00138	PASS
				0	1.75	0.00102	PASS
		LCH		10	1.65	0.00096	PASS
				20	3.11	0.00181	PASS
				30	5.31	0.00309	PASS
				40	-0.14	-0.00008	PASS
				50	2.59	0.00151	PASS
				-30	-7.80	-0.00450	PASS
	LTE/TM1 20MHz			-20	-2.95	-0.00170	PASS
		МСН	VN	-10	-7.49	-0.00432	PASS
				0	-5.62	-0.00324	PASS
LTEband4				10	-4.04	-0.00233	PASS
				20	-3.94	-0.00227	PASS
				30	-5.66	-0.00327	PASS
				40	-4.00	-0.00231	PASS
				50	-6.92	-0.00399	PASS
		нсн	VN	-30	2.54	0.00146	PASS
				-20	-3.43	-0.00197	PASS
				-10	1.53	0.00088	PASS
				0	-2.83	-0.00162	PASS
				10	4.60	0.00264	PASS
				20	-0.57	-0.00033	PASS
				30	-2.66	-0.00152	PASS
				40	4.43	0.00254	PASS
				50	-7.90	-0.00453	PASS

The End