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Appendix B

E-UTRA Band 7



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1 Effective (Isotropic) Radiated Power Output Data

Effective Isotropic Radiated Power of Transmitter (EIRP) for LTE BAND 7

Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	22.83	23.37	33.00	PASS
			LCH	RB1#13	22.83	23.37	33.00	PASS
		5M		RB1#24	22.71	23.25	33.00	PASS
				RB12#0	21.96	22.50	33.00	PASS
				RB12#6	21.89	22.43	33.00	PASS
				RB12#13	21.83	22.37	33.00	PASS
				RB25#0	21.86	22.40	33.00	PASS
			мсн	RB1#0	22.42	22.96	33.00	PASS
				RB1#13	22.44	22.98	33.00	PASS
	LTE/TM1			RB1#24	22.31	22.85	33.00	PASS
BAND7				RB12#0	21.60	22.14	33.00	PASS
				RB12#6	21.56	22.10	33.00	PASS
				RB12#13	21.52	22.06	33.00	PASS
				RB25#0	21.53	22.07	33.00	PASS
				RB1#0	21.79	22.33	33.00	PASS
				RB1#13	21.81	22.35	33.00	PASS
				RB1#24	21.67	22.21	33.00	PASS
			НСН	RB12#0	20.92	21.46	33.00	PASS
				RB12#6	20.89	21.43	33.00	PASS
				RB12#13	20.84	21.38	33.00	PASS
				RB25#0	20.83	21.37	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	22.19	22.73	33.00	PASS
				RB1#13	21.93	22.47	33.00	PASS
				RB1#24	21.74	22.28	33.00	PASS
			LCH	RB12#0	20.91	21.45	33.00	PASS
				RB12#6	20.91	21.45	33.00	PASS
		5M		RB12#13	20.90	21.44	33.00	PASS
			-	RB25#0	20.76	21.30	33.00	PASS
			МСН	RB1#0	21.35	21.89	33.00	PASS
				RB1#13	21.67	22.21	33.00	PASS
	LTE/TM2			RB1#24	21.39	21.93	33.00	PASS
BAND7				RB12#0	20.50	21.04	33.00	PASS
				RB12#6	20.46	21.00	33.00	PASS
				RB12#13	20.48	21.02	33.00	PASS
				RB25#0	20.46	21.00	33.00	PASS
				RB1#0	21.33	21.87	33.00	PASS
				RB1#13	21.25	21.79	33.00	PASS
				RB1#24	20.78	21.32	33.00	PASS
			HCH	RB12#0	19.95	20.49	33.00	PASS
				RB12#6	19.91	20.45	33.00	PASS
			 	RB12#13	19.87	20.41	33.00	PASS
				RB25#0	19.81	20.35	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	22.72	23.26	33.00	PASS
		10M		RB1#25	22.72	23.26	33.00	PASS
				RB1#49	22.74	23.28	33.00	PASS
			LCH	RB25#0	21.83	22.37	33.00	PASS
				RB25#13	21.88	22.42	33.00	PASS
	LTE/TM1			RB25#25	21.81	22.35	33.00	PASS
				RB50#0	21.95	22.49	33.00	PASS
			МСН	RB1#0	22.38	22.92	33.00	PASS
				RB1#25	22.38	22.92	33.00	PASS
				RB1#49	22.36	22.90	33.00	PASS
BAND7				RB25#0	21.58	22.12	33.00	PASS
				RB25#13	21.54	22.08	33.00	PASS
				RB25#25	21.53	22.07	33.00	PASS
				RB50#0	21.58	22.12	33.00	PASS
				RB1#0	22.09	22.63	33.00	PASS
				RB1#25	21.90	22.44	33.00	PASS
				RB1#49	21.58	22.12	33.00	PASS
			НСН	RB25#0	21.01	21.55	33.00	PASS
				RB25#13	20.96	21.50	33.00	PASS
				RB25#25	20.85	21.39	33.00	PASS
				RB50#0	20.95	21.49	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	21.82	22.36	33.00	PASS
				RB1#25	22.15	22.69	33.00	PASS
				RB1#49	22.09	22.63	33.00	PASS
			LCH	RB25#0	20.86	21.40	33.00	PASS
				RB25#13	20.85	21.39	33.00	PASS
	LTE/TM2	10M		RB25#25	20.84	21.38	33.00	PASS
				RB50#0	20.86	21.40	33.00	PASS
			МСН	RB1#0	21.91	22.45	33.00	PASS
				RB1#25	21.53	22.07	33.00	PASS
				RB1#49	21.70	22.24	33.00	PASS
BAND7				RB25#0	20.49	21.03	33.00	PASS
				RB25#13	20.51	21.05	33.00	PASS
				RB25#25	20.51	21.05	33.00	PASS
				RB50#0	20.50	21.04	33.00	PASS
				RB1#0	20.95	21.49	33.00	PASS
				RB1#25	20.82	21.36	33.00	PASS
				RB1#49	20.73	21.27	33.00	PASS
			НСН	RB25#0	20.05	20.59	33.00	PASS
				RB25#13	19.92	20.46	33.00	PASS
				RB25#25	19.98	20.52	33.00	PASS
				RB50#0	19.95	20.49	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	22.85	23.39	33.00	PASS
				RB1#38	22.68	23.22	33.00	PASS
	LTE/TM1	15M		RB1#74	22.47	23.01	33.00	PASS
			LCH	RB36#0	21.87	22.41	33.00	PASS
				RB36#18	21.85	22.39	33.00	PASS
				RB36#39	21.79	22.33	33.00	PASS
				RB75#0	21.85	22.39	33.00	PASS
			MCH	RB1#0	22.53	23.07	33.00	PASS
				RB1#38	22.47	23.01	33.00	PASS
				RB1#74	22.43	22.97	33.00	PASS
BAND7				RB36#0	21.65	22.19	33.00	PASS
				RB36#18	21.59	22.13	33.00	PASS
				RB36#39	21.57	22.11	33.00	PASS
				RB75#0	21.60	22.14	33.00	PASS
				RB1#0	21.97	22.51	33.00	PASS
				RB1#38	22.01	22.55	33.00	PASS
				RB1#74	21.70	22.24	33.00	PASS
			HCH	RB36#0	21.21	21.75	33.00	PASS
				RB36#18	21.08	21.62	33.00	PASS
				RB36#39	20.98	21.52	33.00	PASS
				RB75#0	21.04	21.58	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	21.58	22.12	33.00	PASS
				RB1#38	22.20	22.74	33.00	PASS
				RB1#74	21.91	22.45	33.00	PASS
			LCH	RB36#0	20.83	21.37	33.00	PASS
	LTE/TM2			RB36#18	20.85	21.39	33.00	PASS
		15M		RB36#39	20.66	21.20	33.00	PASS
				RB75#0	20.87	21.41	33.00	PASS
			МСН	RB1#0	21.70	22.24	33.00	PASS
				RB1#38	21.78	22.32	33.00	PASS
				RB1#74	21.95	22.49	33.00	PASS
BAND7				RB36#0	20.53	21.07	33.00	PASS
				RB36#18	20.53	21.07	33.00	PASS
				RB36#39	20.50	21.04	33.00	PASS
				RB75#0	20.51	21.05	33.00	PASS
				RB1#0	20.90	21.44	33.00	PASS
				RB1#38	21.55	22.09	33.00	PASS
				RB1#74	20.69	21.23	33.00	PASS
			HCH	RB36#0	20.06	20.60	33.00	PASS
				RB36#18	20.10	20.64	33.00	PASS
				RB36#39	20.01	20.55	33.00	PASS
				RB75#0	20.07	20.61	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	22.83	23.37	33.00	PASS
				RB1#50	22.06	22.60	33.00	PASS
				RB1#99	21.69	22.23	33.00	PASS
			LCH	RB50#0	21.96	22.50	33.00	PASS
				RB50#25	21.25	21.79	33.00	PASS
		20M		RB50#50	20.76	21.30	33.00	PASS
				RB100#0	21.54	22.08	33.00	PASS
	LTE/TM1		МСН	RB1#0	22.54	23.08	33.00	PASS
				RB1#50	22.54	23.08	33.00	PASS
				RB1#99	22.51	23.05	33.00	PASS
BAND7				RB50#0	21.67	22.21	33.00	PASS
				RB50#25	21.72	22.26	33.00	PASS
				RB50#50	21.67	22.21	33.00	PASS
				RB100#0	21.57	22.11	33.00	PASS
				RB1#0	21.48	22.02	33.00	PASS
				RB1#50	22.07	22.61	33.00	PASS
				RB1#99	21.70	22.24	33.00	PASS
			НСН	RB50#0	20.50	21.04	33.00	PASS
				RB50#25	21.20	21.74	33.00	PASS
				RB50#50	21.04	21.58	33.00	PASS
				RB100#0	21.14	21.68	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channe I	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.82	22.36	33.00	PASS
				RB1#50	21.59	22.13	33.00	PASS
				RB1#99	21.21	21.75	33.00	PASS
			LCH	RB50#0	20.88	21.42	33.00	PASS
				RB50#25	20.35	20.89	33.00	PASS
	LTE/TM2	20M		RB50#50	19.81	20.35	33.00	PASS
				RB100#0	20.61	21.15	33.00	PASS
			MCH	RB1#0	21.65	22.19	33.00	PASS
				RB1#50	21.69	22.23	33.00	PASS
				RB1#99	21.63	22.17	33.00	PASS
BAND7				RB50#0	20.71	21.25	33.00	PASS
				RB50#25	20.60	21.14	33.00	PASS
				RB50#50	20.60	21.14	33.00	PASS
				RB100#0	20.60	21.14	33.00	PASS
				RB1#0	20.47	21.01	33.00	PASS
				RB1#50	21.27	21.81	33.00	PASS
				RB1#99	21.34	21.88	33.00	PASS
			HCH	RB50#0	19.36	19.90	33.00	PASS
				RB50#25	20.17	20.71	33.00	PASS
				RB50#50	20.05	20.59	33.00	PASS
				RB100#0	20.16	20.70	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 x RBW.

Detector: RMS



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	5.54	13	PASS
	TM1/20M	MCH	5.42	13	PASS
Band 7		HCH	5.51	13	PASS
Danu 7	TM2/20M	LCH	6.35	13	PASS
		MCH	6.29	13	PASS
		HCH	6.43	13	PASS



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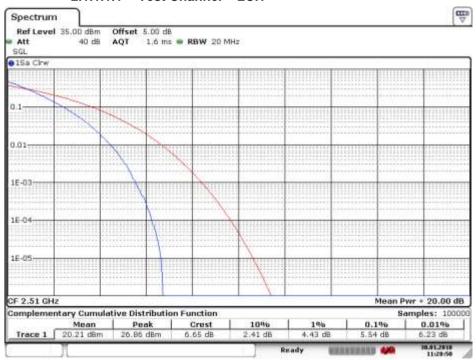
Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

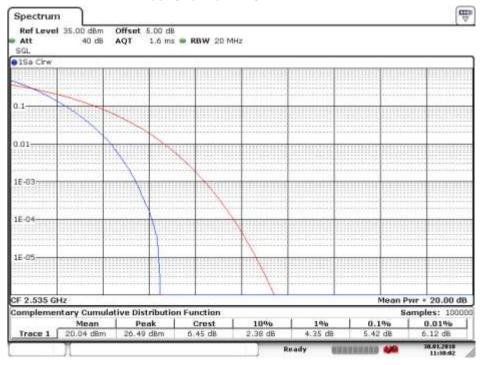
2.1.1.1 Test Mode = LTE/TM1.Bandwidth=20MHz

2.1.1.1.1 Test Channel = LCH



Date: 30 JAN 2018 11:28:50

2.1.1.1.2 Test Channel = MCH



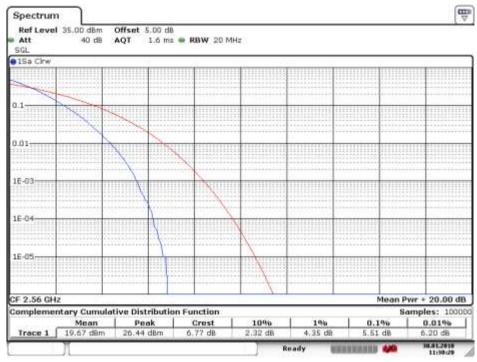
Date: 30 JAN 2018 11:30:03



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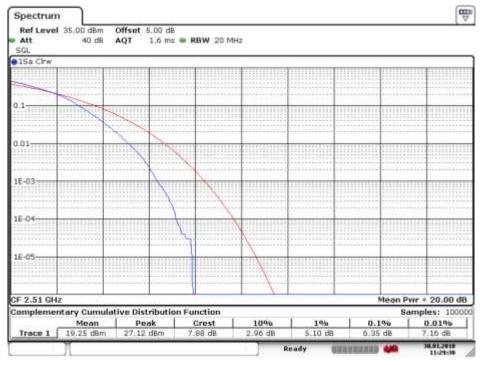
2.1.1.1.3 Test Channel = HCH



Date: 30 JAN 2018 11:30:21

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

2.1.1.2.1 Test Channel = LCH



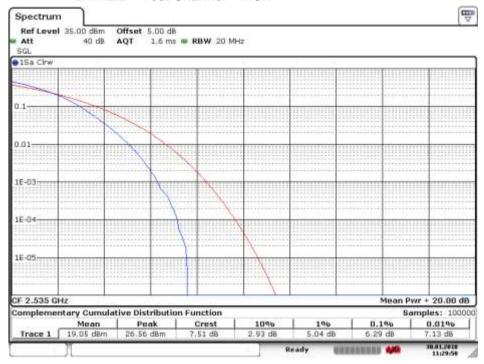
Date: 30 JAN 2018 11:29:30



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2.1.1.2.2 Test Channel = MCH



Date: 30.JAN 2018 11:29:50

2.1.1.2.3 Test Channel = HCH



Date: 30 JAN 2018 11:30:35



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3 Modulation Characteristics

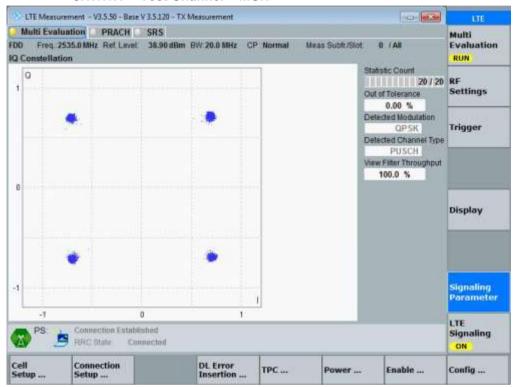
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH



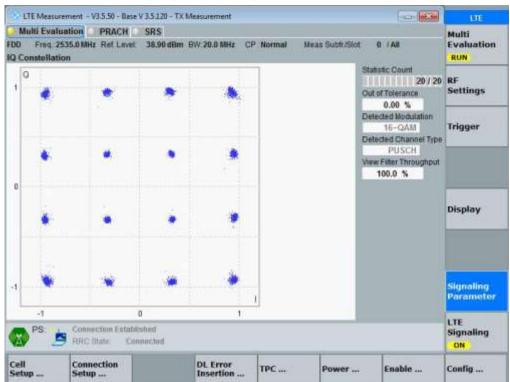


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3.1.1.2 Test Mode = LTE /TM2 20MHz

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	4.49	4.97	PASS
	TM1/5MHz	MCH	4.48	4.91	PASS
		HCH	4.49	4.90	PASS
		LCH	4.48	4.93	PASS
	TM2/ 5MHz	MCH	4.48	4.97	PASS
		HCH	4.48	4.95	PASS
		LCH	8.93	9.73	PASS
	TM1/10MHz	MCH	8.93	9.61	PASS
		HCH	8.93	9.71	PASS
		LCH	8.93	9.69	PASS
	TM2/ 10MHz	MCH	8.93	9.71	PASS
Band 7		HCH	8.93	9.73	PASS
Danu /		LCH	13.43	14.63	PASS
	TM1/ 15MHz	MCH	13.42	14.65	PASS
		HCH	13.38	14.55	PASS
		LCH	13.49	14.90	PASS
	TM2/ 15MHz	MCH	13.46	14.90	PASS
		HCH	13.46	14.80	PASS
		LCH	17.94	19.42	PASS
	TM1/ 20MHz	MCH	17.86	19.38	PASS
		HCH	17.94	19.66	PASS
		LCH	17.94	19.50	PASS
	TM2/ 20MHz	MCH	17.90	19.38	PASS
		HCH	17.90	19.30	PASS



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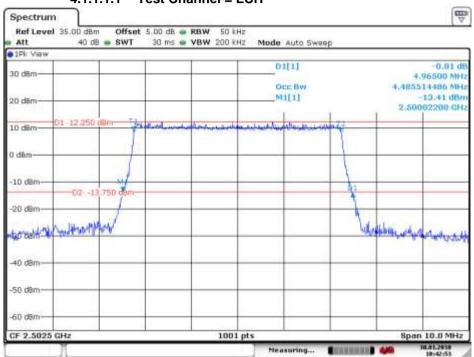
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4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



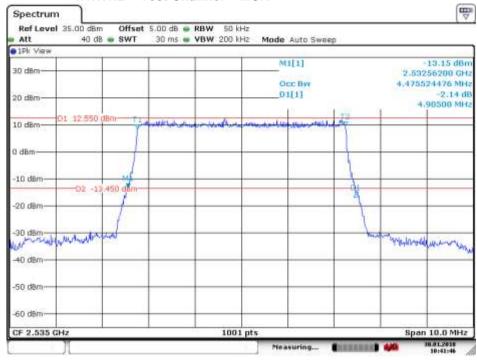
Date: 30 JAN 2018 10:42:53



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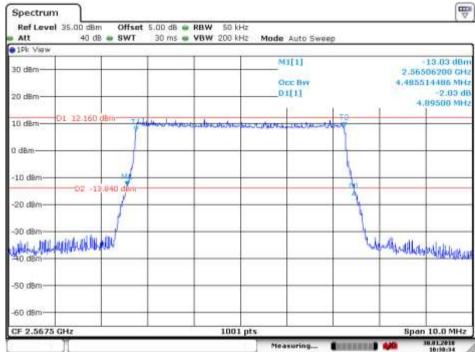
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4.1.1.1.2 Test Channel = MCH



Date: 30.JAN 2018 10:41:46

4.1.1.1.3 Test Channel = HCH



Date: 30.JAN 2018 10:38:34

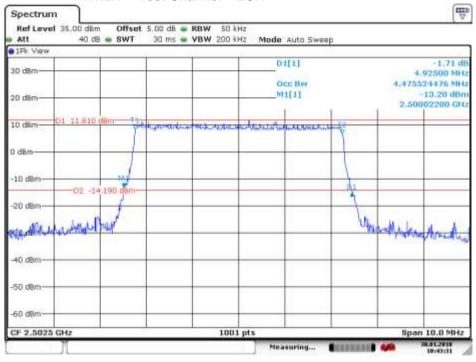


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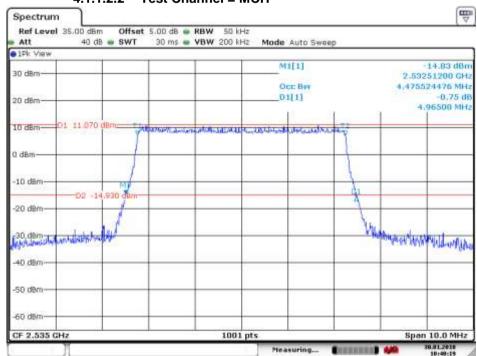
4.1.1.2 Test Mode = LTE/TM2 5MHz

4.1.1.2.1 Test Channel = LCH



Date: 30 JAN 2018 10:43:32

4.1.1.2.2 Test Channel = MCH

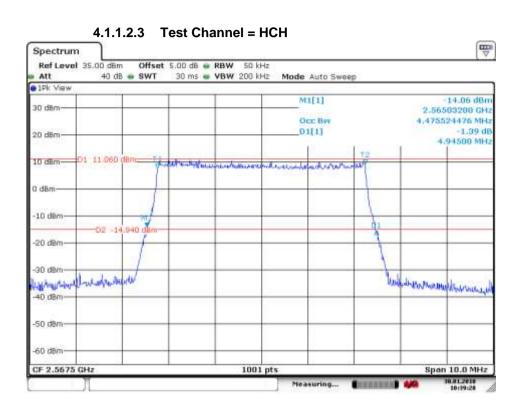


Date: 30.JAN 2018 10:40:20



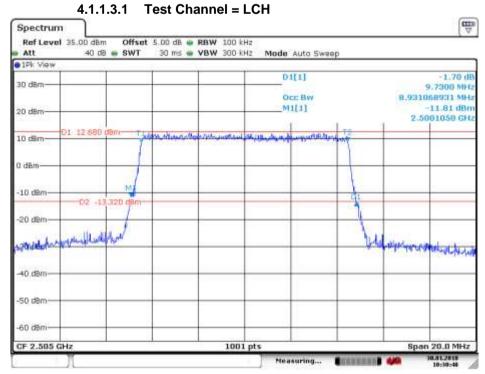
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Date: 30.JAN 2018 10:39:28

4.1.1.3 Test Mode = LTE/TM1 10MHz



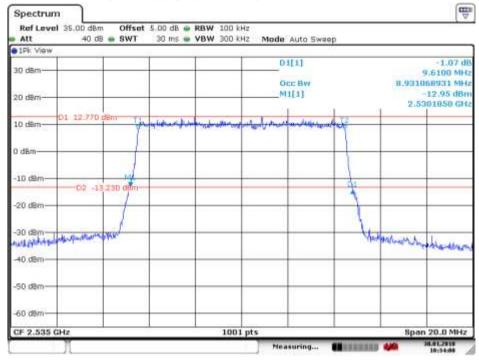
Date: 30 JAN 2018 10:30:48



Report No.: SZEM180100071902

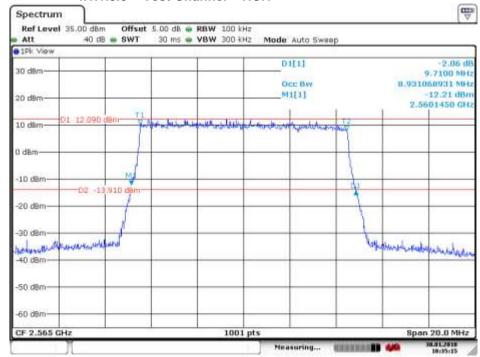
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Date: 30 JAN 2018 10:34:09

4.1.1.3.3 Test Channel = HCH



Date: 30 JAN 2018 10:35:16

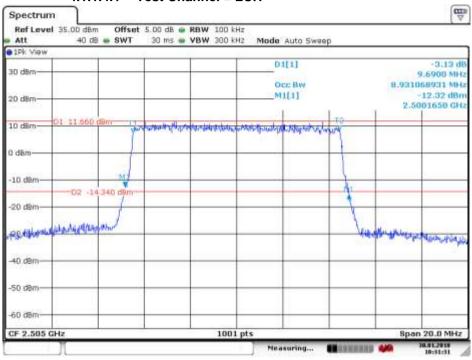


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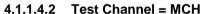
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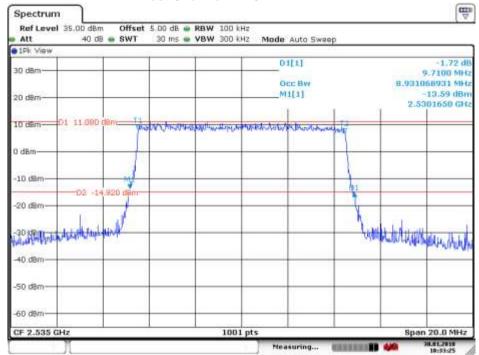
4.1.1.4 Test Mode = LTE/TM2 10MHz

4.1.1.4.1 Test Channel = LCH



Date: 30 JAN 2018 10:31:32



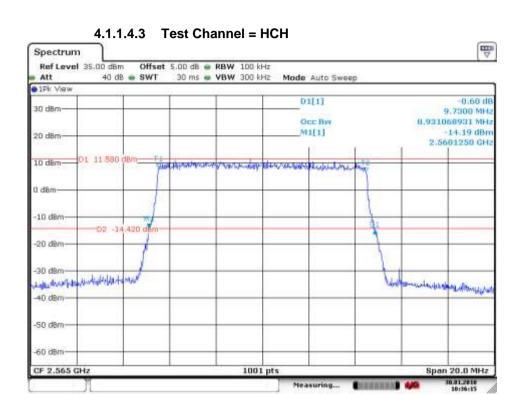


Date: 30 JAN 2018 10:33:25



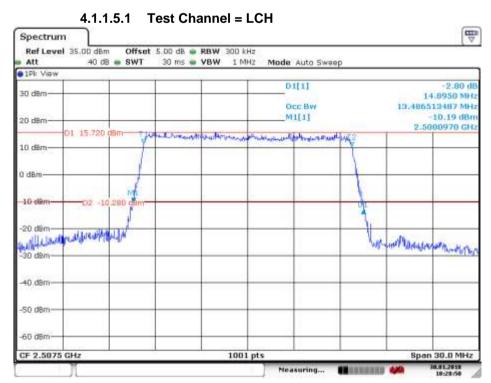
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Date: 30.JAN 2018 10:36:15

4.1.1.5 Test Mode = LTE/TM1 15MHz



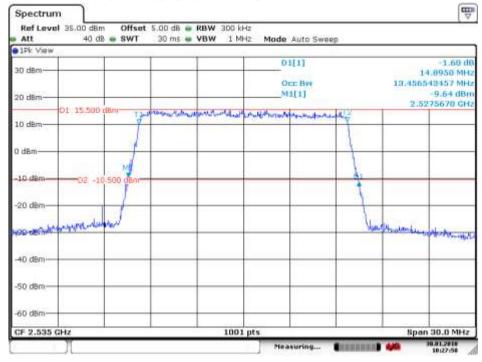
Date: 30 JAN 2018 10:28:50



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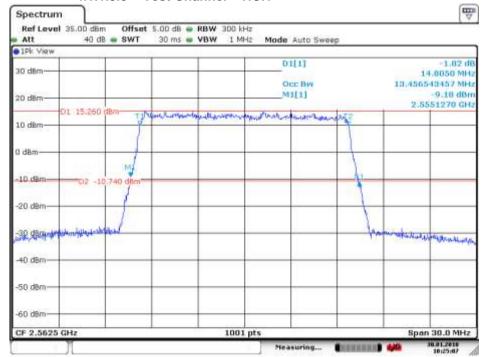
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Date: 30.JAN 2018 10:27:59

4.1.1.5.3 Test Channel = HCH



Date: 30.JAN 2018 10:25:07

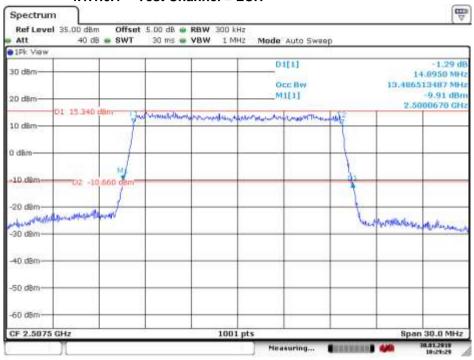


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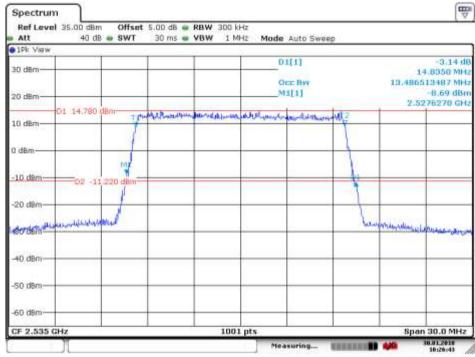
4.1.1.6 Test Mode = LTE/TM2 15MHz

4.1.1.6.1 Test Channel = LCH



Date: 30 JAN 2018 10:29:29

4.1.1.6.2 Test Channel = MCH



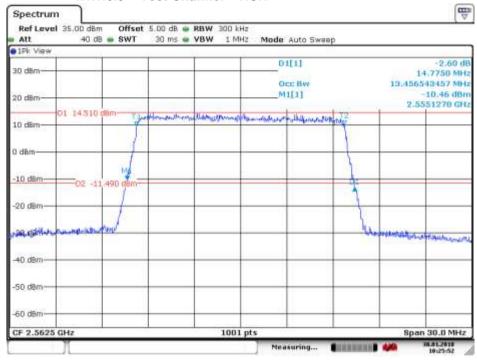
Date: 30.JAN 2018 10:26 44



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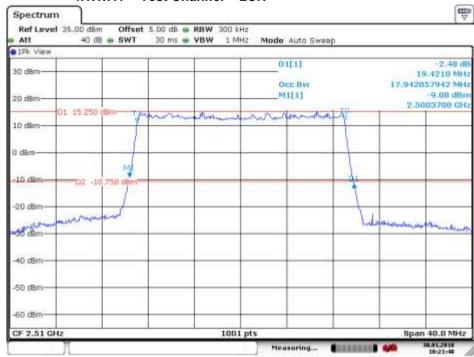




Date: 30.JAN.2018 10:25:53

4.1.1.7 Test Mode = LTE/TM1 20MHz

4.1.1.7.1 Test Channel = LCH



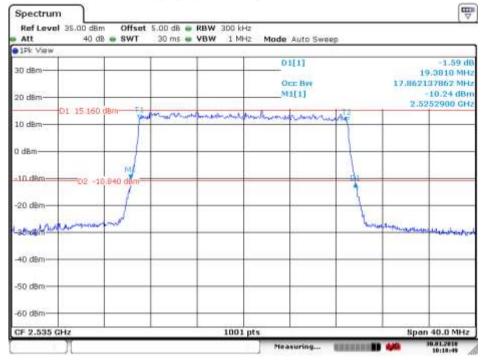
Date: 30 JAN 2018 10:21:49



Report No.: SZEM180100071902

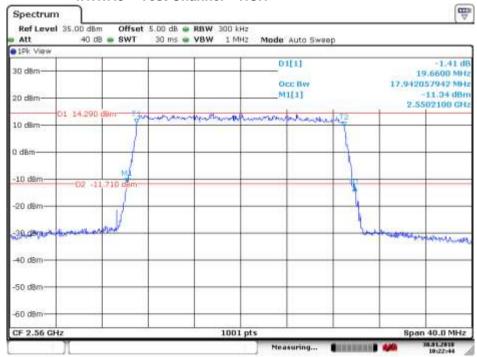
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Date: 30.JAN 2018 10:18:49

4.1.1.7.3 Test Channel = HCH



Date: 30 JAN 2018 10:22:45

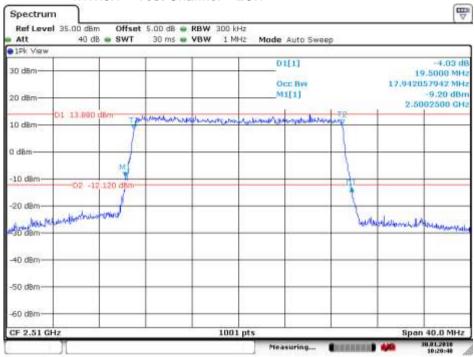


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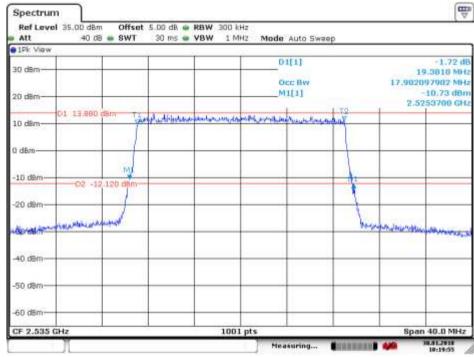
4.1.1.8 Test Mode = LTE/TM2 20MHz

4.1.1.8.1 Test Channel = LCH



Date: 30.JAN 2018 10:20:49

4.1.1.8.2 Test Channel = MCH



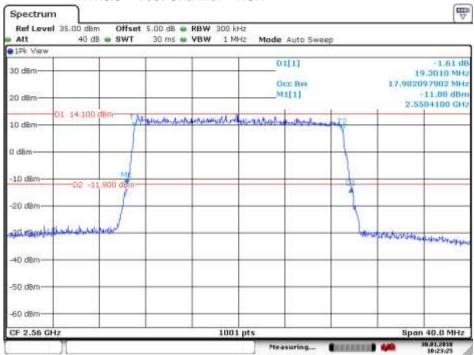
Date: 30 JAN 2018 10:19:54



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4.1.1.8.3 Test Channel = HCH



Date: 30.JAN 2018 10:23:26



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5 Band Edges Compliance

Part I -

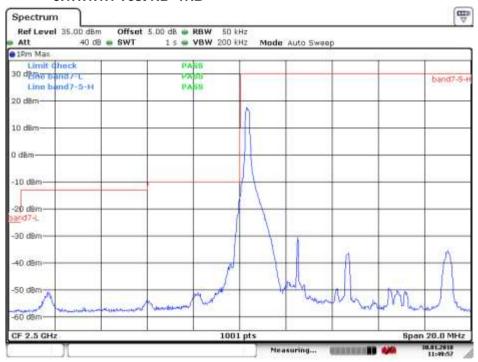
5.1 For LTE

5.1.1 Test Band = LTE band7

5.1.1.1 Test Mode = LTE/TM1 5MHz

5.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1 Test RB=1RB



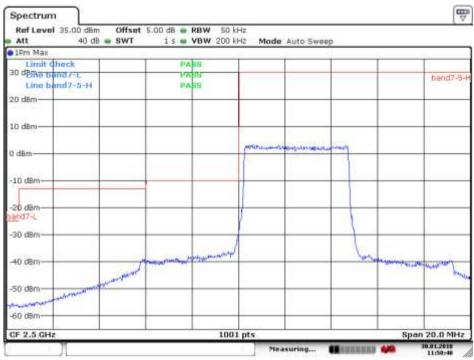
Date: 30 JAN 2018 11:49:57



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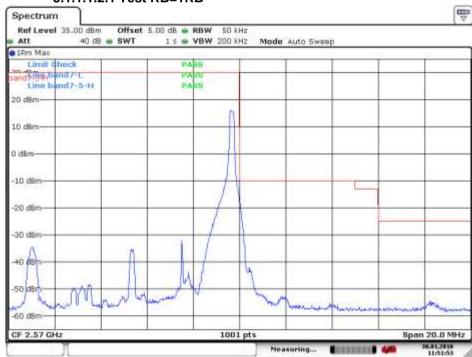
5.1.1.1.1.2 Test RB=25RB



Date: 30.JAN 2018 11:50:40

5.1.1.1.2 Test Channel = HCH

5.1.1.1.2.1 Test RB=1RB



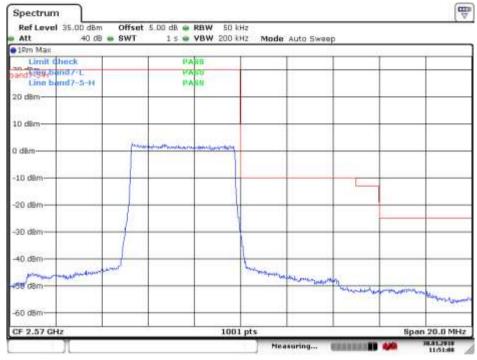
Date: 30 JAN 2018 11:51:54



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5.1.1.1.2.2 Test RB=25RB

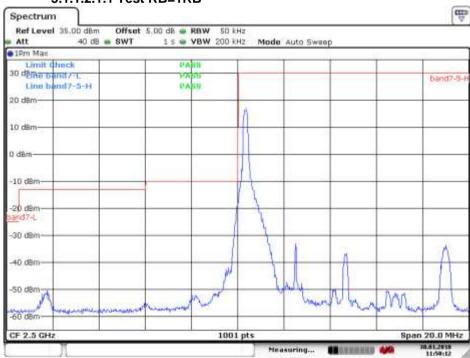


Date: 30.JAN.2018 11:51:09

5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH

5.1.1.2.1.1 Test RB=1RB



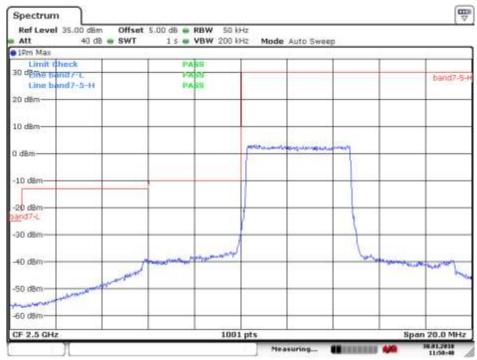
Date: 30 JAN 2018 11:50:12



Report No.: SZEM180100071902

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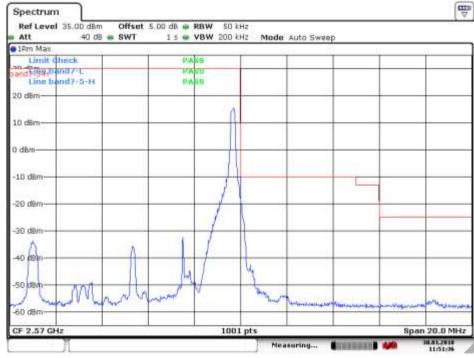
5.1.1.2.1.2 Test RB=25RB



Date: 30.JAN 2018 11:50:40

5.1.1.2.2 Test Channel = HCH

5.1.1.2.2.1 Test RB=1RB



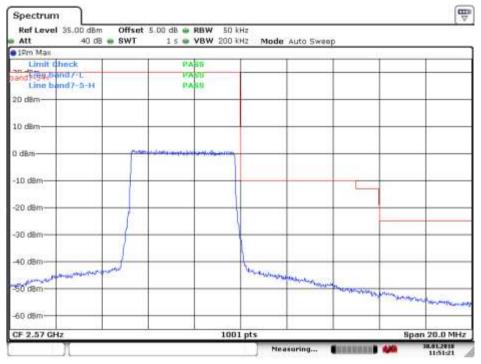
Date: 30 JAN 2018 11:51:37



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5.1.1.2.2.2 Test RB=25RB

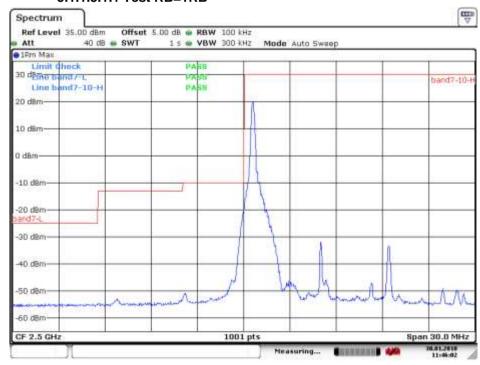


Date: 30 JAN 2018 11:51:21

5.1.1.3 Test Mode = LTE/TM1 10MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB



Date: 30 JAN 2018 11:46:03



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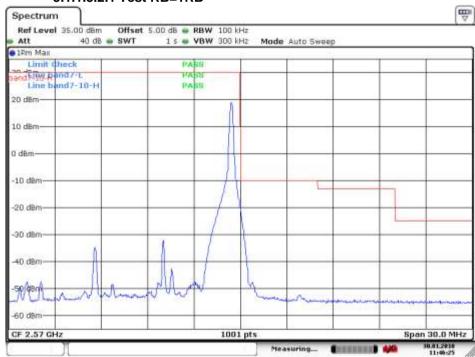
5.1.1.3.1.2 Test RB=50RB



Date: 30 JAN 2018 11:44:58

5.1.1.3.2 Test Channel = HCH

5.1.1.3.2.1 Test RB=1RB



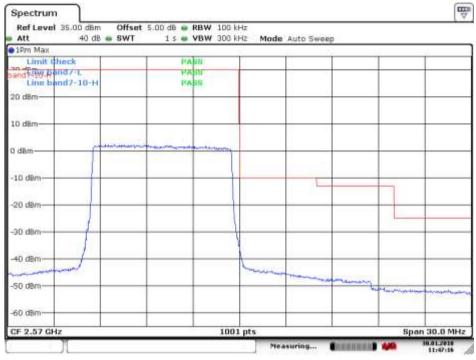
Date: 30.JAN 2018 11:46:25



Report No.: SZEM180100071902

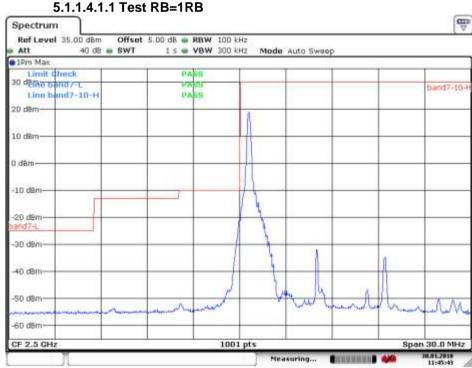
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5.1.1.3.2.2 Test RB=50RB



Date: 30.JAN 2018 11:47:17

5.1.1.4 Test Mode = LTE/TM2 10MHz 5.1.1.4.1 Test Channel = LCH



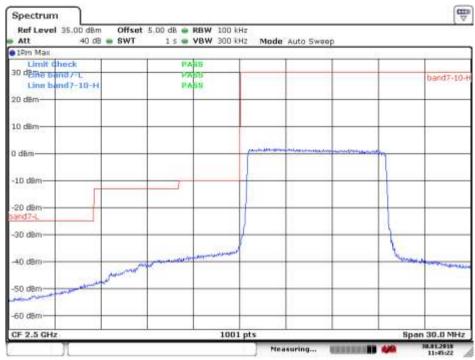
Date: 30 JAN 2018 11:45:43



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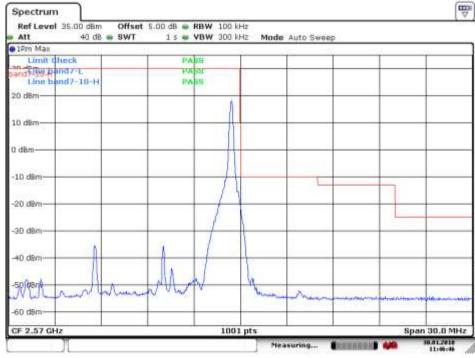
5.1.1.4.1.2 Test RB=50RB



Date: 30 JAN 2018 11:45:22

5.1.1.4.2 Test Channel = HCH

5.1.1.4.2.1 Test RB=1RB



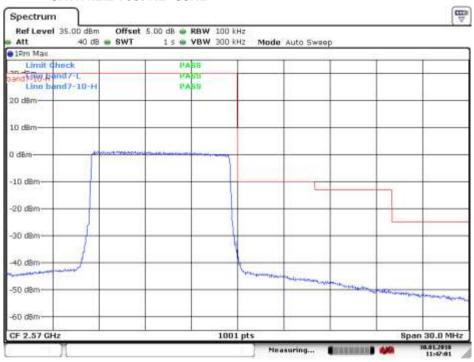
Date: 30.JAN 2018 11:46-46



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5.1.1.4.2.2 Test RB=50RB

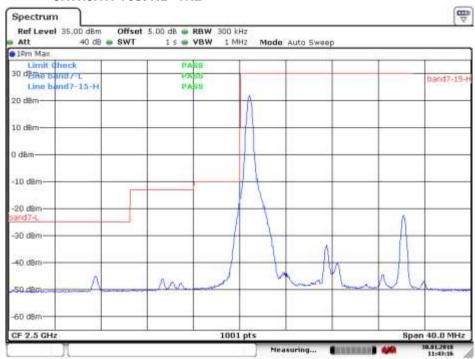


Date: 30 JAN 2018 11:47:02

5.1.1.5 Test Mode = LTE/TM1 15MHz

5.1.1.5.1 Test Channel = LCH

5.1.1.5.1.1 Test RB=1RB



Date: 30 JAN 2018 11:43:17



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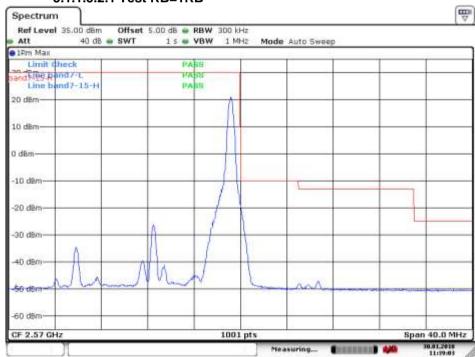
5.1.1.5.1.2 Test RB=75RB



Date: 30.JAN 2018 11:42:59

5.1.1.5.2 Test Channel = HCH

5.1.1.5.2.1 Test RB=1RB



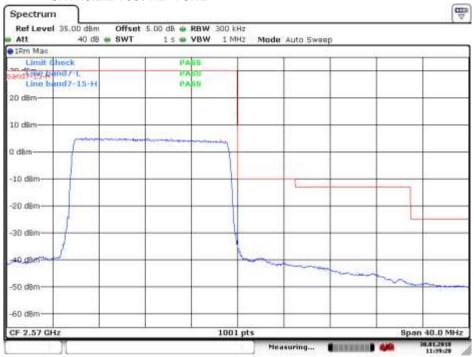
Date: 30.JAN 2018 11:39:03



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5.1.1.5.2.2 Test RB=75RB

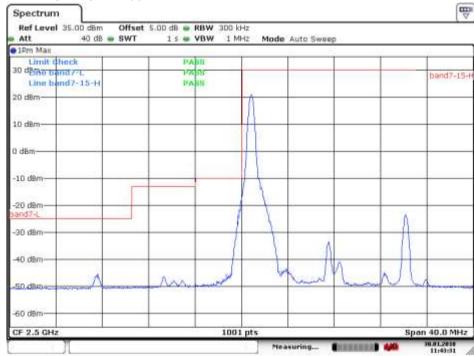


Date: 30 JAN 2018 11:39:20

5.1.1.6 Test Mode = LTE/TM2 15MHz

5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



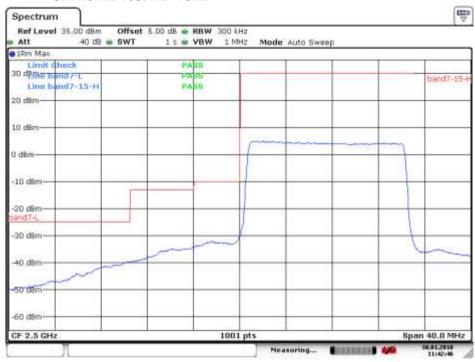
Date: 30.JAN 2018 11:43:32



Report No.: SZEM180100071902

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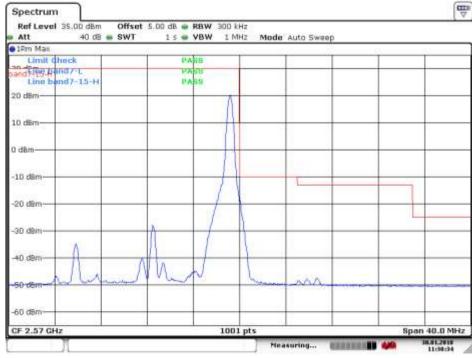
5.1.1.6.1.2 Test RB=75RB



Date: 30 JAN 2018 11:42:46

5.1.1.6.2 Test Channel = HCH

5.1.1.6.2.1 Test RB=1RB



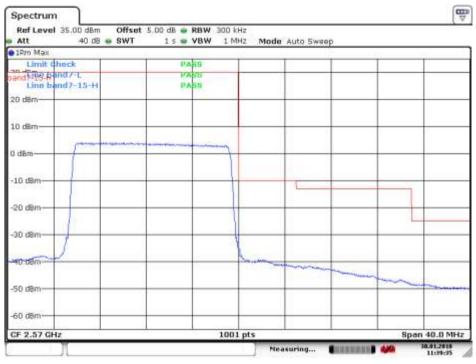
Date: 30 JAN 2018 11:38:34



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5.1.1.6.2.2 Test RB=75RB

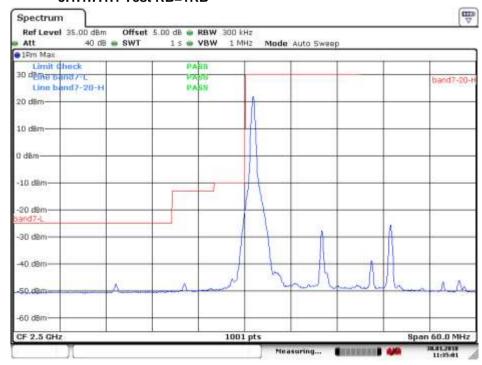


Date: 30 JAN 2018 11:39:36

5.1.1.7 Test Mode = LTE/TM1 20MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 30 JAN 2018 11:35:01



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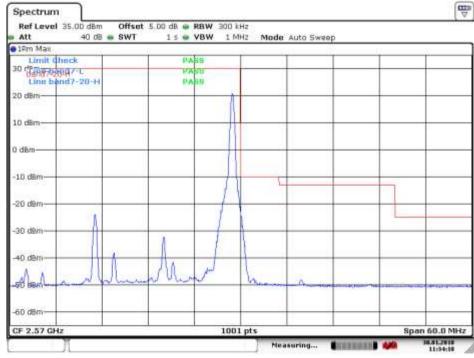
5.1.1.7.1.2 Test RB=100RB



Date: 30.JAN 2018 11:35:39

5.1.1.7.2 Test Channel = HCH

5.1.1.7.2.1 Test RB=1RB



Date: 30 JAN 2018 11:34:18



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5.1.1.7.2.2 Test RB=100RB

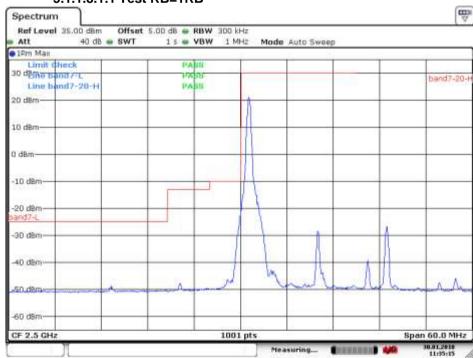


Date: 30.JAN 2018 11:33:25

5.1.1.8 Test Mode = LTE/TM2 20MHz

5.1.1.8.1 Test Channel = LCH

5.1.1.8.1.1 Test RB=1RB



Date: 30.JAN 2018 11:35:15



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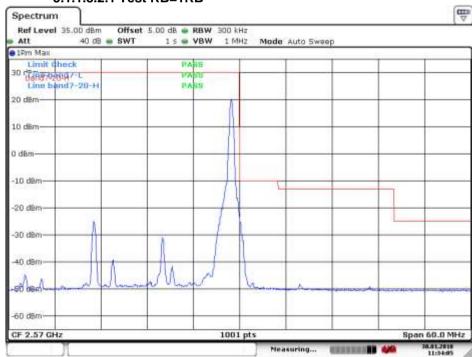
5.1.1.8.1.2 Test RB=100RB



Date: 30.JAN.2018 11:35:27

5.1.1.8.2 Test Channel = HCH

5.1.1.8.2.1 Test RB=1RB



Date: 30 JAN 2018 11:34:05



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5.1.1.8.2.2 Test RB=100RB



Date: 30 JAN 2018 11:33:52



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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)

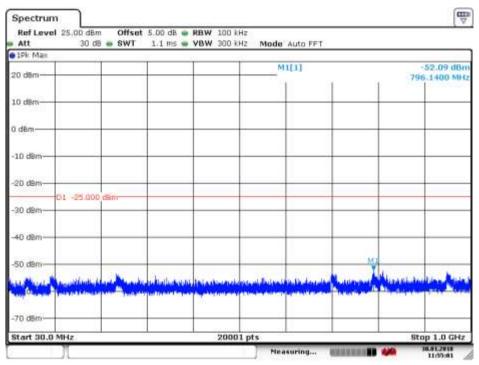
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE band7

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

6.1.1.1.1 Test Channel = LCH

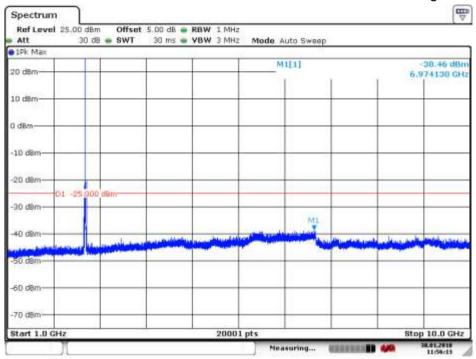


Date: 30.JAN.2018 11:55:02

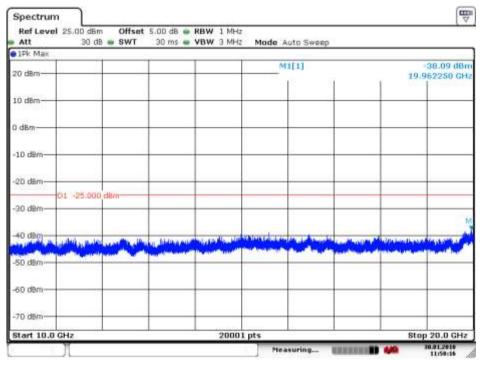


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Date: 30 JAN 2018 11:56:14

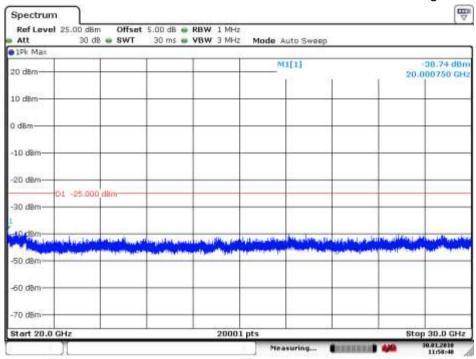


Date: 30.JAN 2018 11:58:16



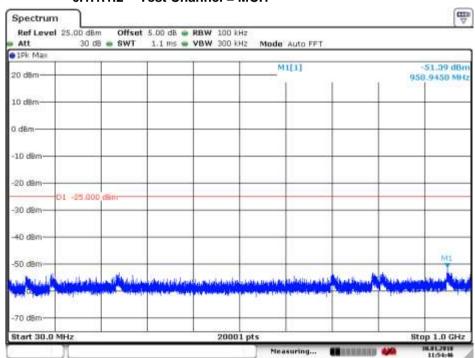
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Date: 30.JAN 2018 11:58:40

6.1.1.1.2 Test Channel = MCH

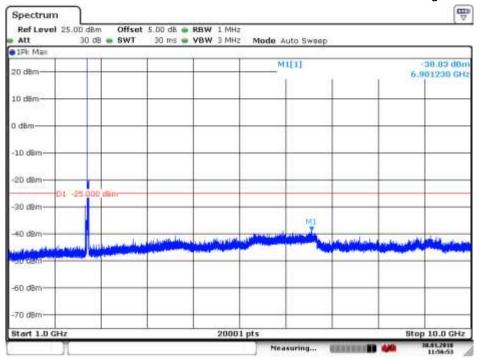


Date: 30 JAN 2018 11:54:46

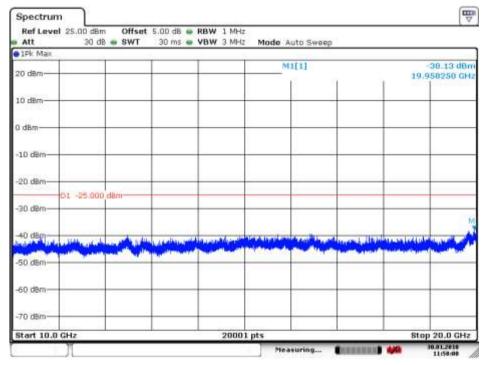


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Date: 30 JAN 2018 11:56:54

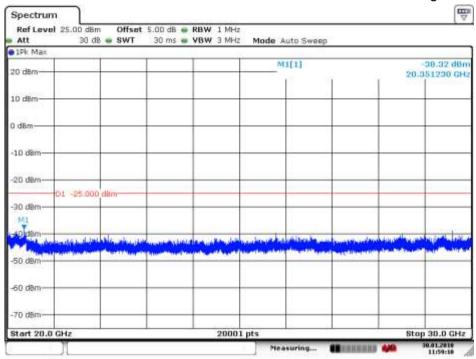


Date: 30.JAN 2018 11:58:01



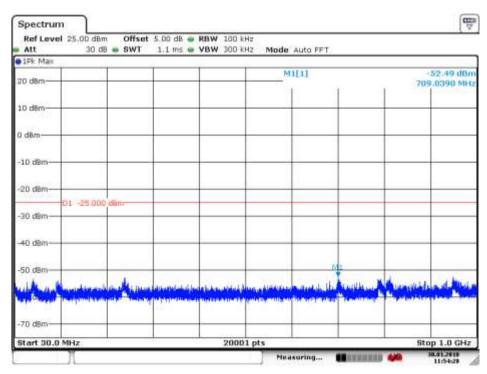
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Date: 30.JAN 2018 11:59:11

6.1.1.1.3 Test Channel = HCH

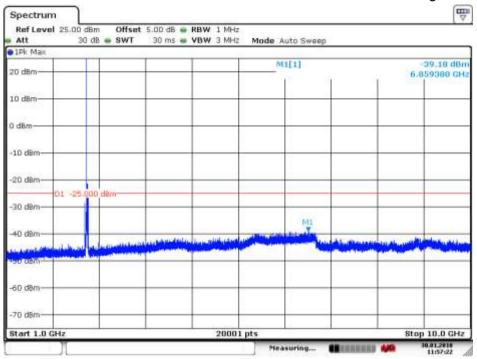


Date: 30 JAN 2018 11:54:29

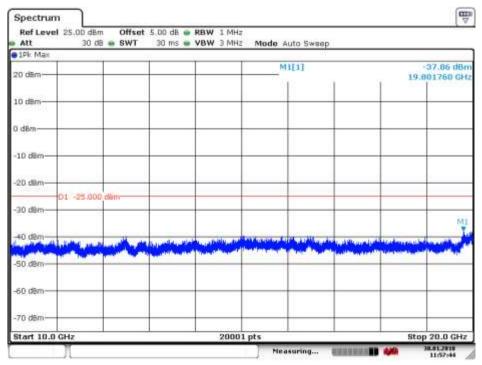


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Date: 30.JAN 2018 11:57:22

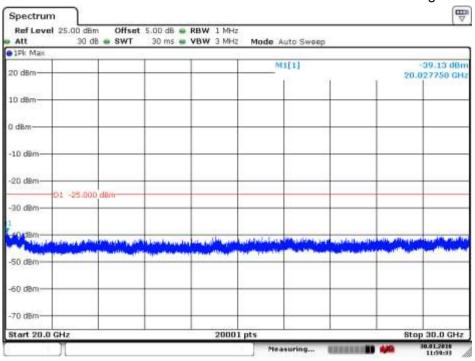


Date: 30 JAN 2018 11:57:44



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Date: 30.JAN 2018 11:59:33



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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE band7

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

7.1.1.1.1 Test Channel = LCH

7.1.1.1.1 Test Chainer = LCH					
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization	
829.133	-80.14	-13.00	67.14	Vertical	
1163.000	-66.72	-13.00	53.72	Vertical	
1465.500	-65.97	-13.00	52.97	Vertical	
2580.000	-57.75	-13.00	44.75	Vertical	
4710.475	-65.95	-13.00	52.95	Vertical	
6471.650	-64.08	-13.00	51.08	Vertical	
1308.500	-67.08	-13.00	54.08	Horizontal	
2680.500	-56.99	-13.00	43.99	Horizontal	
3785.525	-67.40	-13.00	54.40	Horizontal	
4581.450	-66.28	-13.00	53.28	Horizontal	
7239.950	-64.10	-13.00	51.10	Horizontal	
9246.500	-62.59	-13.00	49.59	Horizontal	

7.1.1.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1213.000	-65.60	-13.00	52.60	Vertical
1714.500	-63.69	-13.00	50.69	Vertical
2494.000	-58.12	-13.00	45.12	Vertical
4417.000	-66.30	-13.00	53.30	Vertical
5730.325	-65.92	-13.00	52.92	Vertical
7823.000	-63.26	-13.00	50.26	Vertical
1200.000	-66.33	-13.00	53.33	Horizontal
1533.000	-65.53	-13.00	52.53	Horizontal
4197.300	-66.34	-13.00	53.34	Horizontal
5908.100	-65.20	-13.00	52.20	Horizontal
7800.250	-63.34	-13.00	50.34	Horizontal
9194.500	-62.94	-13.00	49.94	Horizontal



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7.1.1.1.1 Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1283.500	-66.06	-13.00	53.06	Vertical
1623.500	-64.81	-13.00	51.81	Vertical
2395.000	-58.46	-13.00	45.46	Vertical
2799.000	-56.99	-13.00	43.99	Vertical
4493.375	-66.63	-13.00	53.63	Vertical
6835.325	-64.10	-13.00	51.10	Vertical
1126.500	-66.68	-13.00	53.68	Horizontal
1432.500	-66.35	-13.00	53.35	Horizontal
1747.000	-63.54	-13.00	50.54	Horizontal
2651.500	-57.35	-13.00	44.35	Horizontal
4461.850	-66.34	-13.00	53.34	Horizontal
5643.550	-65.96	-13.00	52.96	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	-4.53	-0.00180	PASS
				VN	0.47	0.00019	PASS
				VH	-7.77	-0.00310	PASS
	LTE/TM1 20MHz		TN	VL	1.43	0.00056	PASS
		MCH		VN	-2.88	-0.00114	PASS
				VH	2.68	0.00106	PASS
		НСН	TN	VL	-6.55	-0.00256	PASS
				VN	-5.13	-0.00200	PASS
LTEband7				VH	-0.71	-0.00028	PASS
LIEDanu	LTE/TM2 20MHz	LCH	TN	VL	-4.22	-0.00168	PASS
				VN	-2.90	-0.00116	PASS
				VH	-5.18	-0.00206	PASS
		МСН	TN	VL	1.54	0.00061	PASS
				VN	-2.88	-0.00114	PASS
				VH	2.53	0.00100	PASS
		нсн т		VL	-3.01	-0.00118	PASS
			TN	VN	-8.09	-0.00316	PASS
				VH	0.46	0.00018	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
				-30	-0.45	-0.00018	PASS
				-20	-1.32	-0.00053	PASS
				-10	2.37	0.00094	PASS
				0	1.76	0.00070	PASS
		LCH	VN	10	1.63	0.00065	PASS
				20	0.17	0.00007	PASS
				30	-0.32	-0.00013	PASS
				40	-0.17	-0.00007	PASS
				50	0.55	0.00022	PASS
	LTE/TM1 20MHz			-30	-7.83	-0.00309	PASS
			VN	-20	-5.97	-0.00236	PASS
		МСН		-10	-7.43	-0.00293	PASS
				0	-5.67	-0.00224	PASS
LTEband7				10	-4.09	-0.00161	PASS
				20	-9.97	-0.00393	PASS
				30	-5.62	-0.00222	PASS
				40	-4.67	-0.00184	PASS
				50 -6.93 -0.00273	-0.00273	PASS	
				-30	0.58	0.00023	PASS
				-20	-1.49	-0.00058	PASS
				-10	1.52	0.00059	PASS
				0	-2.89	-0.00113	PASS
		НСН	VN	10	2.63	0.00103	PASS
				20	-0.55	-0.00021	PASS
				30	-2.68	-0.00105	PASS
				40	-5.42	-0.00212	PASS
				50	-8.98	-0.00351	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
			VN	-30	-0.60	-0.00024	PASS
				-20	-2.45	-0.00098	PASS
				-10	3.18	0.00127	PASS
				0	2.74	0.00109	PASS
		LCH		10	1.80	0.00072	PASS
				20	-0.03	-0.00001	PASS
				30	-0.24	-0.00010	PASS
				40	5.94	0.00237	PASS
				50	0.79	0.00031	PASS
	LTE/TM2 20MHz	МСН		-30	-3.40	-0.00134	PASS
			VN	-20	-5.18	-0.00204	PASS
				-10	-7.59	-0.00299	PASS
				0	-4.72	-0.00186	PASS
LTEband7				10	-0.84	-0.00033	PASS
				20	1.94	0.00077	PASS
				30	-3.34	-0.00132	PASS
				40	-2.62	-0.00103	PASS
				50 -3.21	-0.00127	PASS	
			VN	-30	1.74	0.00068	PASS
				-20	-2.25	-0.00088	PASS
				-10	1.79	0.00070	PASS
		НСН		0	-3.23	-0.00126	PASS
				10	2.88	0.00113	PASS
				20	-1.27	-0.00050	PASS
				30	-2.99	-0.00117	PASS
				40	-4.23	-0.00165	PASS
				50	-7.70	-0.00301	PASS

The End