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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	23.14	25.14	33.00	PASS
				RB1#13	23.25	25.25	33.00	PASS
				RB1#24	23.06	25.06	33.00	PASS
			LCH	RB12#0	22.36	24.36	33.00	PASS
				RB12#6	22.3	24.3	33.00	PASS
				RB12#13	22.25	24.25	33.00	PASS
				RB25#0	22.3	24.3	33.00	PASS
				RB1#0	23.26	25.26	33.00	PASS
				RB1#13	23.28	25.28	33.00	PASS
				RB1#24	23.27	25.27	33.00	PASS
BAND 7	LTE/TM1	5M	МСН	RB12#0	22.52	24.52	33.00	PASS
				RB12#6	22.5	24.5	33.00	PASS
				RB12#13	22.47	24.47	33.00	PASS
				RB25#0	22.44	24.44	33.00	PASS
				RB1#0	23.44	25.44	33.00	PASS
				RB1#13	23.19	25.19	33.00	PASS
				RB1#24	23.09	25.09	33.00	PASS
			НСН	RB12#0	22.85	24.85	33.00	PASS
				RB12#6	22.72	24.72	33.00	PASS
				RB12#13	22.64	24.64	33.00	PASS
				RB25#0	22.63	24.63	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	22.53	24.53	33.00	PASS
				RB1#13	22.57	24.57	33.00	PASS
				RB1#24	22.27	24.27	33.00	PASS
			LCH	RB12#0	21.36	23.36	33.00	PASS
				RB12#6	21.22	23.22	33.00	PASS
				RB12#13	21.27	23.27	33.00	PASS
				RB25#0	21.27	23.27	33.00	PASS
				RB1#0	22.35	24.35	33.00	PASS
				RB1#13	22.66	24.66	33.00	PASS
				RB1#24	22.48	24.48	33.00	PASS
BAND 7	LTE/TM2	5M	МСН	RB12#0	21.56	23.56	33.00	PASS
				RB12#6	21.52	23.52	33.00	PASS
				RB12#13	21.52	23.52	33.00	PASS
				RB25#0	21.48	23.48	33.00	PASS
				RB1#0	23.35	25.35	33.00	PASS
				RB1#13	22.43	24.43	33.00	PASS
				RB1#24	22.78	24.78	33.00	PASS
			НСН	RB12#0	21.98	23.98	33.00	PASS
				RB12#6	21.52	23.52	33.00	PASS
				RB12#13	21.71	23.71	33.00	PASS
				RB25#0	21.84	23.84	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	21.89	23.89	33.00	PASS
				RB1#13	21.9	23.9	33.00	PASS
				RB1#24	21.77	23.77	33.00	PASS
			LCH	RB12#0	20.97	22.97	33.00	PASS
				RB12#6	20.85	22.85	33.00	PASS
				RB12#13	20.82	22.82	33.00	PASS
				RB25#0	20.87	22.87	33.00	PASS
				RB1#0	22.2	24.2	33.00	PASS
				RB1#13	22.22	24.22	33.00	PASS
				RB1#24	22.02	24.02	33.00	PASS
BAND 7	LTE/TM3	5M	МСН	RB12#0	21.01	23.01	33.00	PASS
				RB12#6	21.06	23.06	33.00	PASS
				RB12#13	21.06	23.06	33.00	PASS
				RB25#0	21.1	23.1	33.00	PASS
				RB1#0	22.38	24.38	33.00	PASS
				RB1#13	22.14	24.14	33.00	PASS
				RB1#24	22.11	24.11	33.00	PASS
			НСН	RB12#0	21.29	23.29	33.00	PASS
				RB12#6	21.27	23.27	33.00	PASS
				RB12#13	21.12	23.12	33.00	PASS
				RB25#0	21.32	23.32	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	23.25	25.25	33.00	PASS
				RB1#25	23.08	25.08	33.00	PASS
				RB1#49	23.14	25.14	33.00	PASS
			LCH	RB25#0	22.43	24.43	33.00	PASS
				RB25#13	22.37	24.37	33.00	PASS
				RB25#25	22.26	24.26	33.00	PASS
				RB50#0	22.43	24.43	33.00	PASS
				RB1#0	23.59	25.59	33.00	PASS
				RB1#25	23.29	25.29	33.00	PASS
				RB1#49	23.26	25.26	33.00	PASS
BAND 7	LTE/TM1	10M	МСН	RB25#0	22.64	24.64	33.00	PASS
				RB25#13	22.55	24.55	33.00	PASS
				RB25#25	22.5	24.5	33.00	PASS
				RB50#0	22.46	24.46	33.00	PASS
				RB1#0	23.8	25.8	33.00	PASS
				RB1#25	23.4	25.4	33.00	PASS
				RB1#49	23.17	25.17	33.00	PASS
			НСН	RB25#0	22.73	24.73	33.00	PASS
				RB25#13	22.67	24.67	33.00	PASS
				RB25#25	22.41	24.41	33.00	PASS
				RB50#0	22.95	24.95	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	22.9	24.9	33.00	PASS
				RB1#25	23.15	25.15	33.00	PASS
				RB1#49	22.54	24.54	33.00	PASS
			LCH	RB25#0	21.53	23.53	33.00	PASS
				RB25#13	21.47	23.47	33.00	PASS
				RB25#25	21.33	23.33	33.00	PASS
				RB50#0	21.36	23.36	33.00	PASS
				RB1#0	22.57	24.57	33.00	PASS
				RB1#25	22.92	24.92	33.00	PASS
				RB1#49	22.53	24.53	33.00	PASS
BAND 7	LTE/TM2	10M	МСН	RB25#0	21.64	23.64	33.00	PASS
				RB25#13	21.48	23.48	33.00	PASS
				RB25#25	21.57	23.57	33.00	PASS
				RB50#0	21.56	23.56	33.00	PASS
				RB1#0	22.67	24.67	33.00	PASS
				RB1#25	22.58	24.58	33.00	PASS
				RB1#49	22.73	24.73	33.00	PASS
			НСН	RB25#0	21.72	24.58 33.00 F 24.73 33.00 F	PASS	
				RB25#13	21.72	23.72	33.00	PASS
				RB25#25	21.51	23.51	33.00	PASS
				RB50#0	21.84	23.84	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	22.01	24.01	33.00	PASS
				RB1#13	21.88	23.88	33.00	PASS
				RB1#24	21.96	23.96	33.00	PASS
			LCH	RB12#0	20.98	22.98	33.00	PASS
				RB12#6	20.9	22.9	33.00	PASS
				RB12#13	20.89	22.89	33.00	PASS
				RB25#0	21.01	23.01	33.00	PASS
				RB1#0	22.28	24.28	33.00	PASS
				RB1#13	21.97	23.97	33.00	PASS
				RB1#24	21.88	23.88	33.00	PASS
BAND 7	LTE/TM3	10M	МСН	RB12#0	21.11	23.11	33.00	PASS
				RB12#6	20.95	22.95	33.00	PASS
				RB12#13	21.07	23.07	33.00	PASS
				RB25#0	20.9	22.9	33.00	PASS
				RB1#0	22.28	24.28	33.00	PASS
				RB1#13	22.01	24.01	33.00	PASS
				RB1#24	22.04	24.04	33.00	PASS
			НСН	RB12#0	21.02	23.02	33.00	D PASS D PASS
				RB12#6	20.96	22.96	33.00	PASS
				RB12#13	20.94	22.94	33.00	PASS
				RB25#0	20.93	22.93	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	23.69	25.69	33.00	PASS
				RB1#38	23.13	25.13	33.00	PASS
				RB1#74	23.28	25.28	33.00	PASS
			LCH	RB36#0	22.71	24.71	33.00	PASS
				RB36#18	22.48	24.48	33.00	PASS
				RB36#39	22.44	24.44	33.00	PASS
				RB75#0	22.57	24.57	33.00	PASS
				RB1#0	23.72	25.72	33.00	PASS
				RB1#38	23.41	25.41	33.00	PASS
BAND 7				RB1#74	23.63	25.63	33.00	PASS
	LTE/TM1	15M	MCH	RB36#0	22.78	24.78	33.00	PASS
				RB36#18	22.48	24.48	33.00	PASS
				RB36#39	22.57	24.57	33.00	PASS
				RB75#0	22.7	24.7	33.00	PASS
				RB1#0	23.6	25.6	33.00	PASS
				RB1#38	23.42	25.42	33.00	PASS
				RB1#74	23.57	25.57	33.00	PASS
			HCH	RB36#0	22.97	24.97	33.00	PASS
				RB36#18	22.68	24.68	33.00	PASS
				RB36#39	22.9	24.9	33.00	PASS
				RB75#0	22.64	24.64	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	23.35	25.35	33.00	PASS
				RB1#38	22.33	24.33	33.00	PASS
				RB1#74	22.51	24.51	33.00	PASS
			LCH	RB36#0	21.7	23.7	33.00	PASS
				RB36#18	21.6	23.6	33.00	PASS
				RB36#39	21.46	23.46	33.00	PASS
				RB75#0	21.43	23.43	33.00	PASS
				RB1#0	23.1	25.1	33.00	PASS
				RB1#38	22.7	24.7	33.00	PASS
BAND 7				RB1#74	22.69	24.69	33.00	PASS
	LTE/TM2	15M	MCH	RB36#0	21.72	23.72	33.00	PASS
				RB36#18	21.51	23.51	33.00	PASS
				RB36#39	21.53	23.53	33.00	PASS
				RB75#0	21.66	23.66	33.00	PASS
				RB1#0	23.45	25.45	33.00	PASS
				RB1#38	22.78	24.78	33.00	PASS
				RB1#74	22.9	24.9	33.00	PASS
			HCH	RB36#0	21.9	23.9	33.00	PASS
				RB36#18	21.65	23.65	33.00	PASS
				RB36#39	21.68	23.68	33.00	PASS
				RB75#0	21.76	23.76	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	22.07	24.07	33.00	PASS
				RB1#13	21.14	23.14	33.00	PASS
				RB1#24	21.36	23.36	33.00	PASS
			LCH	RB12#0	20.31	22.31	33.00	PASS
				RB12#6	20.19	22.19	33.00	PASS
				RB12#13	20.21	22.21	33.00	PASS
				RB25#0	20.32	22.32	33.00	PASS
				RB1#0	22.07	24.07	33.00	PASS
				RB1#13	21.45	23.45	33.00	PASS
				RB1#24	21.64	23.64	33.00	PASS
BAND 7	LTE/TM3	15M	МСН	RB12#0	20.49	22.49	33.00	PASS
				RB12#6	20.5	22.5	33.00	PASS
				RB12#13	20.47	22.47	33.00	PASS
				RB25#0	20.47	22.47	33.00	PASS
				RB1#0	21.95	23.95	33.00	PASS
				RB1#13	21.7	23.7	33.00	PASS
				RB1#24	21.45	23.45	33.00	PASS
			НСН	RB12#0	20.43	22.43	33.00	PASS
				RB12#6	20.28	22.28	33.00	PASS
				RB12#13	20.3	22.3	33.00	PASS
				RB25#0	20.33	22.33	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	23.77	25.77	33.00	PASS
				RB1#50	23.12	25.12	33.00	PASS
				RB1#99	23.54	25.54	33.00	PASS
			LCH	RB50#0	22.91	24.91	33.00	PASS
				RB50#25	22.51	24.51	33.00	PASS
				RB50#50	22.7	24.7	33.00	PASS
				RB100#0	22.85	24.85	33.00	PASS
				RB1#0	23.73	25.73	33.00	PASS
				RB1#50	23.32	25.32	33.00	PASS
				RB1#99	23.62	25.62	33.00	PASS
BAND 7	LTE/TM1	20M	МСН	RB50#0	22.76	24.76	33.00	PASS
				RB50#25	22.59	24.59	33.00	PASS
				RB50#50	22.71	24.71	33.00	PASS
				RB100#0	22.88	24.88	33.00	PASS
				RB1#0	23.73	25.73	33.00	PASS
				RB1#50	23.4	25.4	33.00	PASS
				RB1#99	23.37	25.37	33.00	PASS
			НСН	RB50#0	22.96	24.96	33.00	PASS
				RB50#25	22.81	24.81	33.00	PASS
				RB50#50	23.12	25.12	33.00	PASS
				RB100#0	23.07	25.07	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	23.17	25.17	33.00	PASS
				RB1#50	22.24	24.24	33.00	PASS
				RB1#99	22.29	24.29	33.00	PASS
			LCH	RB50#0	21.35	23.35	33.00	PASS
				RB50#25	21.21	23.21	33.00	PASS
				RB50#50	21.24	23.24	33.00	PASS
				RB100#0	21.14	23.14	33.00	PASS
				RB1#0	23.54	25.54	33.00	PASS
				RB1#50	22.46	24.46	33.00	PASS
				RB1#99	22.82	24.82	33.00	PASS
BAND 7	LTE/TM2	20M	МСН	RB50#0	21.35	23.35	33.00	PASS
				RB50#25	21.47	23.47	33.00	PASS
				RB50#50	21.41	23.41	33.00	PASS
				RB100#0	21.47	23.47	33.00	PASS
				RB1#0	23.57	25.57	33.00	PASS
				RB1#50	22.64	24.64	33.00	PASS
				RB1#99	23.11	25.11	33.00	PASS
			НСН	RB50#0	21.73	23.73	33.00	PASS
				RB50#25	21.69	23.69	33.00	PASS
				RB50#50	21.53	23.53	33.00	PASS
				RB100#0	21.74	23.74	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
	LTE/TM3	20M	LCH	RB1#0	21.62	23.62	33.00	PASS
				RB1#13	20.85	22.85	33.00	PASS
				RB1#24	21.14	23.14	33.00	PASS
				RB12#0	20.15	22.15	33.00	PASS
				RB12#6	20.04	22.04	33.00	PASS
				RB12#13	19.99	21.99	33.00	PASS
				RB25#0	20.17	22.17	33.00	PASS
				RB1#0	22.23	24.23	33.00	PASS
				RB1#13	21.1	23.1	33.00	PASS
			МСН	RB1#24	21.58	23.58	33.00	PASS
BAND 7				RB12#0	20.53	22.53	33.00	PASS
				RB12#6	20.35	22.35	33.00	PASS
				RB12#13	20.34	22.34	33.00	PASS
				RB25#0	20.38	22.38	33.00	PASS
				RB1#0	21.93	23.93	33.00	PASS
				RB1#13	21.59	23.59	33.00	PASS
				RB1#24	21.39	23.39	33.00	PASS
			НСН	RB12#0	20.46	22.46	33.00	PASS
			-	RB12#6	20.28	22.28	33.00	PASS
				RB12#13	20.19	22.19	33.00	PASS
				RB25#0	20.48	22.48	33.00	PASS

Note:

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

EIRP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBi] b: SGP=Signal Generator Level



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
	TM1/20M	LCH	3.91	13	PASS
		MCH	4.29	13	PASS
		HCH	4.23	13	PASS
	TM2/20M	LCH	4.99	13	PASS
Band 7		MCH	5.30	13	PASS
		HCH	5.13	13	PASS
	TM3/20M	LCH	5.54	13	PASS
		MCH	5.83	13	PASS
		НСН	5.77	13	PASS

Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE BAND 7

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

2.1.1.1.1 Test Channel = LCH

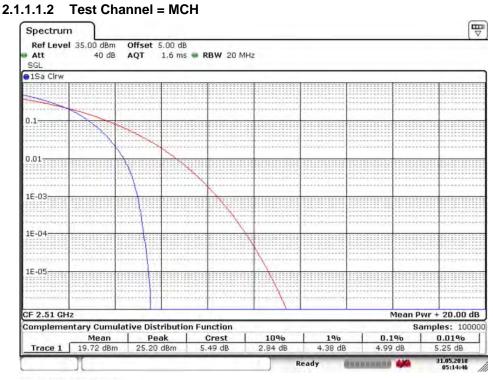


Date: 31.MAY.2018 05:14:12

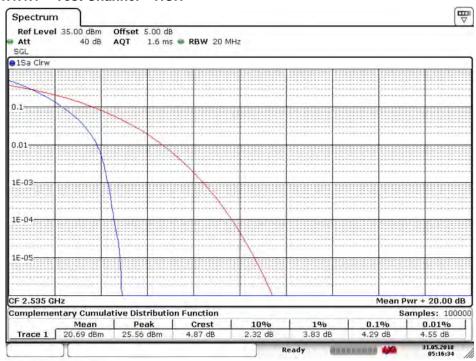
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Date: 31.MAY.2018 05:14:46



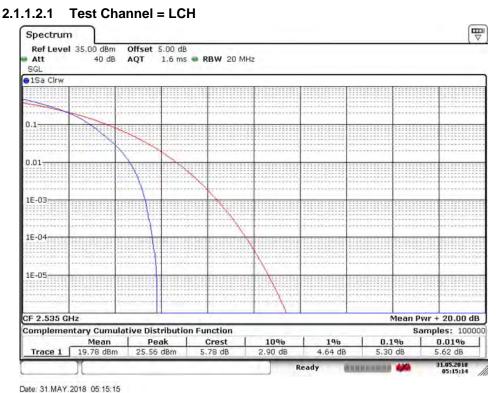
2.1.1.1.1 Test Channel = HCH

Date: 31.MAY.2018 05:16:35



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



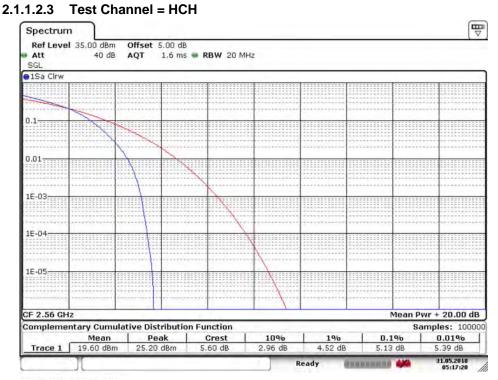
2.1.1.2.2 Test Channel = MCH



Date: 31.MAY.2018 05:17:03



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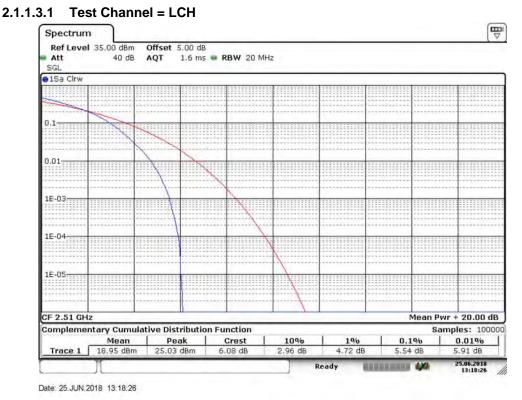


Date: 31.MAY.2018 05:17:21

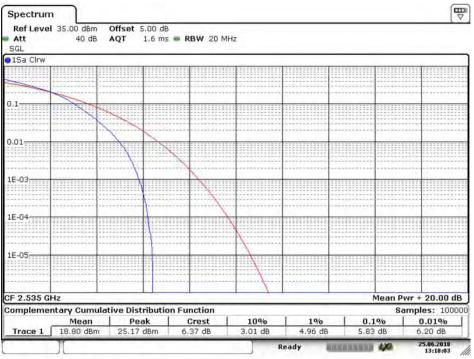


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2.1.1.3 Test Mode = LTE/TM3.Bandwidth=20MHz



2.1.1.3.2 Test Channel = MCH



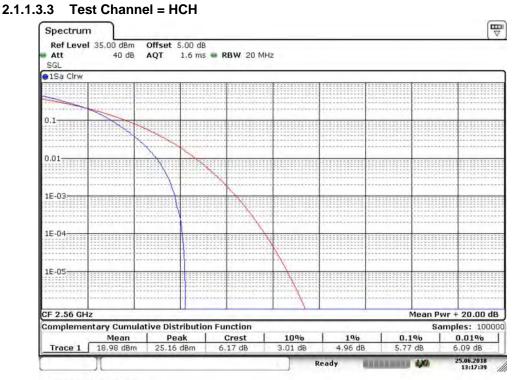
Date: 25.JUN.2018 13:18:03



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Date: 25.JUN.2018 13:17:40



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3 Modulation Characteristics

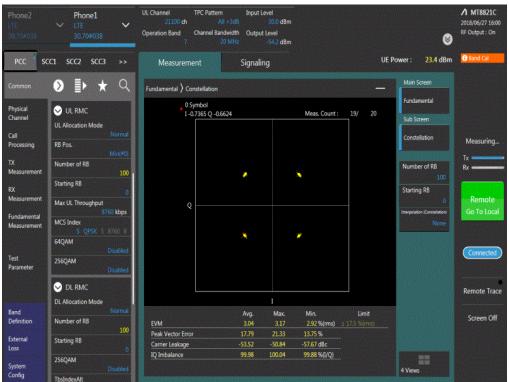
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE BAND 7

3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH

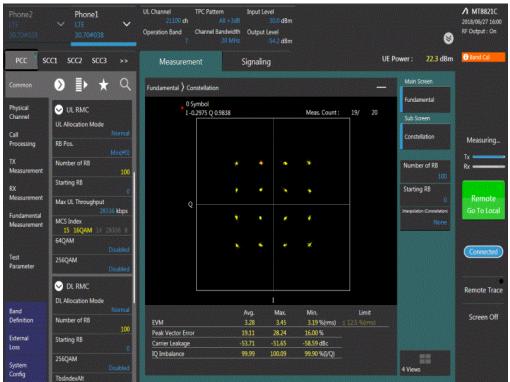




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3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH



3.1.1.3 Test Mode = LTE /TM3 20MHz

3.1.1.3.1 Test Channel = MCH

Phone2 LTE 30.70#038	Phone1 V LTE V 30.70#038	UL Channel TPC Pat 21100 ch Operation Band Channel 7	All +3dB 30 Bandwidth Output Leve	0 dBm 1 2 dBm		8	▲ MT8821C 2018/06/27 16:01 RF Output : On
PCC SC	cc1 scc2 scc3 >>	Measurement	Signaling		UE F	Power : -20.0 dBm	Band Cal
		Fundamental > Constellation	n			Main Screen	
Physical Channel	VL RMC	0 Symbol 1 0.4204 Q	0.8217	Meas. Count :	19/ 20	Fundamental Sub Screen	
Call	UL Allocation Mode					Constellation	Measuring
Processing TX	RB Pos. Min(#0) Number of RB						Tx
Measurement	Number of KB					Number of RB	Rx
RX	Starting RB					Starting RB	
Measurement	Max UL Throughput 57336 kbps	Q	* * * *	a dag 	_	0 Interpolation (Constellation)	Remote Go To Local
Fundamental Measurement	MCS Index 25 64QAM 23 57336 8					None	
	64QAM Enabled		****	a a 2 8			Connected
Test Parameter	256QAM Disabled						Connecteu
	S DL RMC						Remote Trac
	DL Allocation Mode		I				
Band Definition	Normal Number of RB 100	EVM	3.33	Vlax. Min. 3.45 <u>3.26</u> %(rms)	Limit ≤ 8.0 %(rms)		Screen Off
External Loss	Starting RB	Peak Vector Error Carrier Leakage	-54.04 -5	1.77 16.51 % 0.58 -59.57 dBc			
System Config	256QAM Disabled	IQ Imbalance	100.00 10	0.11 99.86 %(I/Q)		4 Views	
comig	TbsIndexAlt	linus de la company de la c				เสียงของของของสายชื่	



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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	4.93	PASS
	TM1/ 5MHz	MCH	4.47	4.89	PASS
		HCH	4.49	4.91	PASS
		LCH	4.48	4.90	PASS
	TM2/ 5MHz	MCH	4.48	4.89	PASS
		HCH	4.48	4.91	PASS
		LCH	4.46	4.86	PASS
	TM3/ 5MHz	MCH	4.47	4.88	PASS
		HCH	4.47	4.89	PASS
		LCH	8.95	9.69	PASS
	TM1/10MHz	MCH	8.95	9.73	PASS
		HCH	8.95	9.75	PASS
		LCH	8.95	9.67	PASS
	TM2/ 10MHz	MCH	8.93	9.67	PASS
		HCH	8.95	9.59	PASS
	TM3/ 10MHz	LCH	8.95	9.65	PASS
		MCH	8.95	9.63	PASS
Band 7		HCH	8.95	9.71	PASS
Ballu /	TM1/ 15MHz	LCH	13.49	14.87	PASS
		MCH	13.49	14.72	PASS
		HCH	13.46	14.75	PASS
	TM2/ 15MHz	LCH	13.49	14.78	PASS
		MCH	13.52	14.81	PASS
		HCH	13.52	14.72	PASS
		LCH	13.45	14.74	PASS
	TM3/ 15MHz	MCH	13.45	14.71	PASS
		HCH	13.48	14.8	PASS
		LCH	17.90	19.54	PASS
	TM1/20MHz	MCH	17.94	19.34	PASS
		HCH	17.94	19.38	PASS
		LCH	17.90	19.442	PASS
	TM2/ 20MHz	MCH	17.94	19.38	PASS
		HCH	17.90	19.46	PASS
		LCH	17.9	19.38	PASS
	TM3/ 20MHz	MCH	17.9	19.34	PASS
		HCH	17.9	19.38	PASS



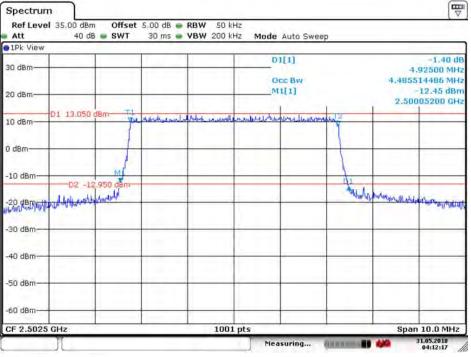
Report No.: SZEM180500453501 Page: 25 of 86

4.1 For LTE

4.1.1 Test Band = LTE BAND 7

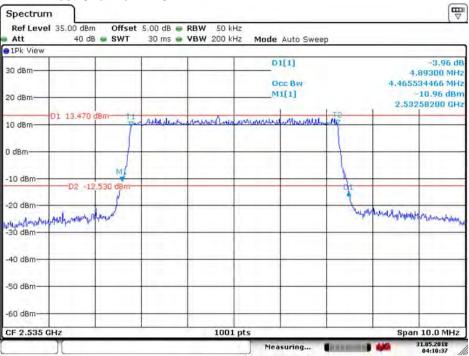
4.1.1.1 Test Mode = LTE/TM1 5MHz

4.1.1.1.1 Test Channel = LCH



Date: 31.MAY.2018 04:12:17

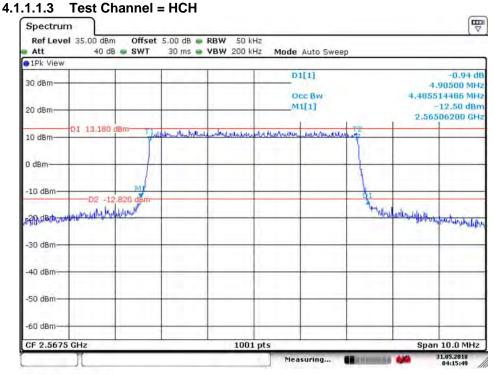
4.1.1.1.2 Test Channel = MCH



Date: 31.MAY.2018 04:10:37



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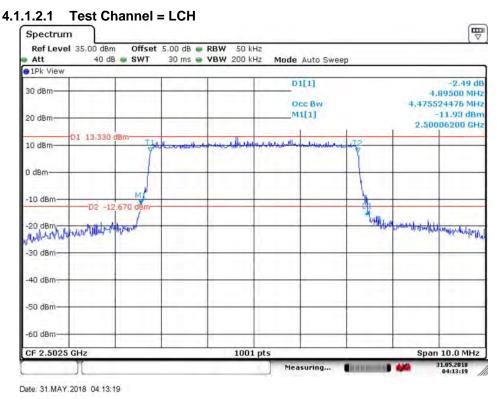
Date: 31.MAY.2018 04 15:50

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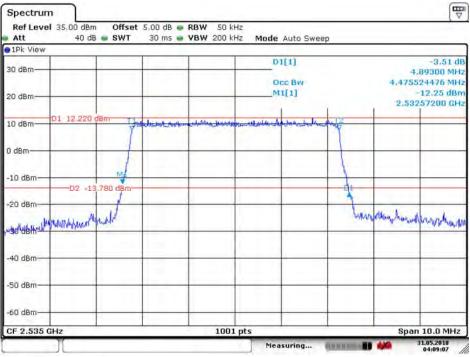


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4.1.1.2 Test Mode = LTE/TM2 5MHz



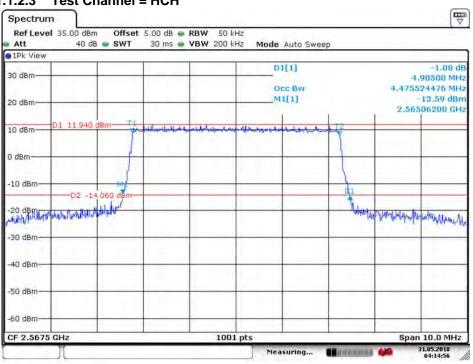
4.1.1.2.2 Test Channel = MCH



Date: 31.MAY.2018 04:09:07



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4.1.1.2.3 Test Channel = HCH

Date: 31.MAY.2018 04.14:57

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4.1.1.3.1 Test Channel = LCH **B** Spectrum Ref Level 35.00 dBm Offset 5.00 dB . RBW 50 kHz Att 40 dB 🖝 SWT 10 ms 🝙 VBW 200 kHz Mode Auto Sweep 1Pk View D1[1] -1.63 dE 30 dBm 4.86500 MH OCC BW 4.465534466 MHz M1[1] -14.87 dBm 20 dBm 2.50007200 GHz 10 dBm D1 10,630 dl april and a proper and the alter and a second and a homenny 0 dBm--10 dBm -D2 -15,370 dB -20 dBm a Marine internation Wythere Michael Martin was 40 dBm -50 dBm -60 dBm-CF 2.5025 GHz 1001 pts Span 10.0 MHz 25.06.2018 13:00:39 Measuring... ALL DESCRIPTION AND

4.1.1.3 Test Mode = LTE/TM3 5MHz

Date: 25.JUN.2018 13:00:39

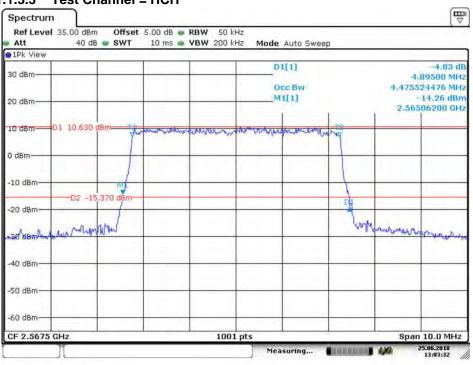




Date: 25.JUN.2018 13:01:51



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4.1.1.3.3 Test Channel = HCH

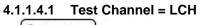
Date: 25.JUN.2018 13:03:33

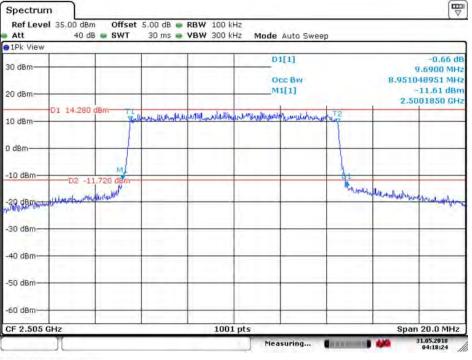
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Report No.: SZEM180500453501 Page: 31 of 86

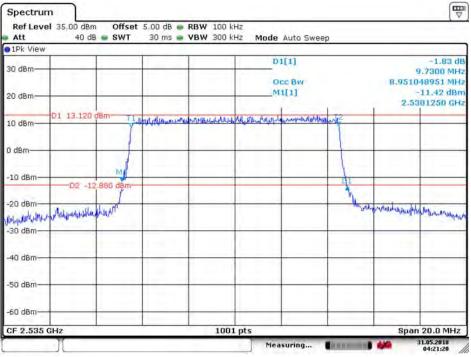
4.1.1.4 Test Mode = LTE/TM1 10MHz





Date: 31 MAY 2018 04 18:25

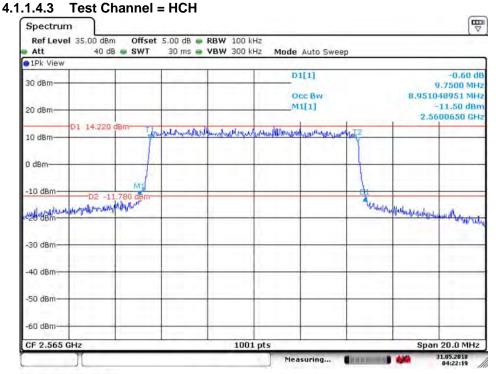




Date: 31.MAY.2018 04:21:20



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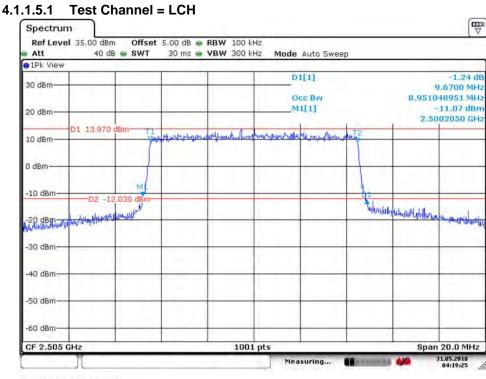
Date: 31.MAY.2018 04:22:19

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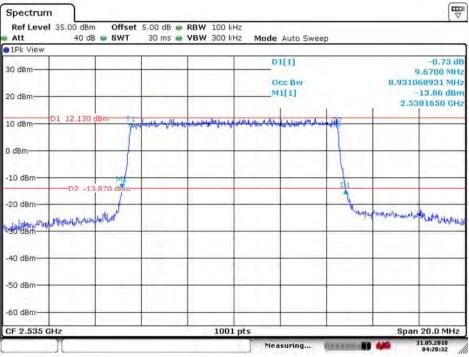
Report No.: SZEM180500453501 Page: 33 of 86

4.1.1.5 Test Mode = LTE/TM2 10MHz



Date: 31.MAY.2018 04:19:25

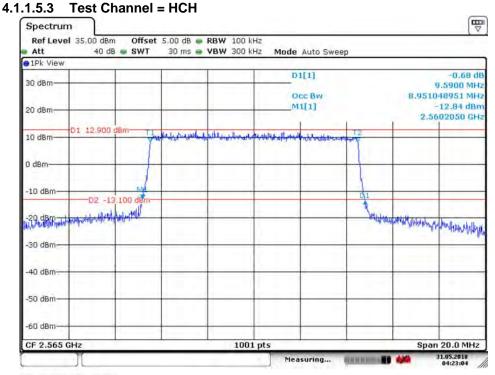
4.1.1.5.2 Test Channel = MCH



Date: 31.MAY.2018 04:20:32



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Date: 31 MAY 2018 04:23:05

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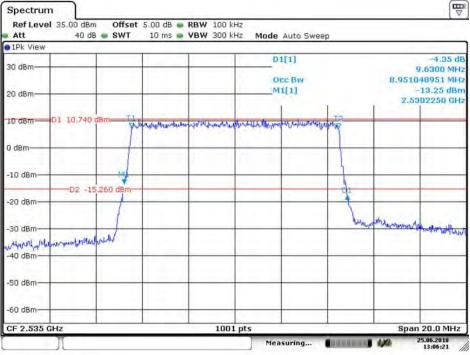
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4.1.1.6.1 Test Channel = LCH 5 Spectrum Ref Level 35.00 dBm Offset 5.00 dB . RBW 100 kHz Att 40 dB 🖝 SWT 10 ms 🝙 VBW 300 kHz Mode Auto Sweep 1Pk View D1[1] -2.28 dF 30 dBm 9.6500 MH OCC BW 8.951048951 MHz M1[1] -13.37 dBm 20 dBm-2.5001850 GHz 10 dBm 01 11:140 dBm 0 dBm--10 dBm D2 -14.860 dB -20 dBm mathinker matheartown -30 dBm A dull 40 dBm -50 dBm -60 dBm Span 20.0 MHz CF 2.505 GHz 1001 pts 25.06.2018 13:05:22 Measuring... COLUMN TAXABLE AND

4.1.1.6 Test Mode = LTE/TM3 10MHz

Date: 25.JUN.2018 13:05:23

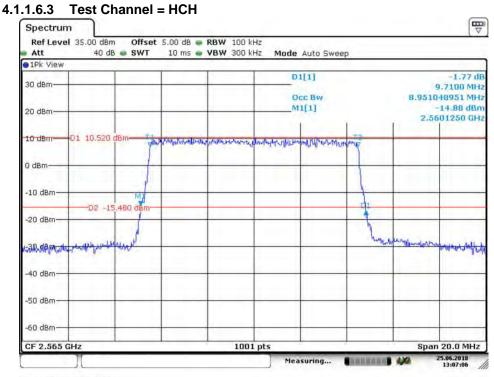
4.1.1.6.2 Test Channel = MCH



Date: 25.JUN.2018 13:06:21



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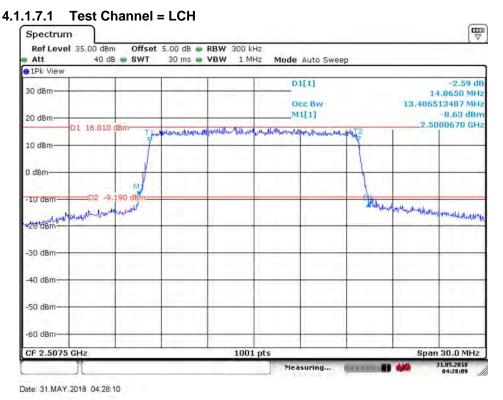
Date: 25.JUN.2018 13:07:07

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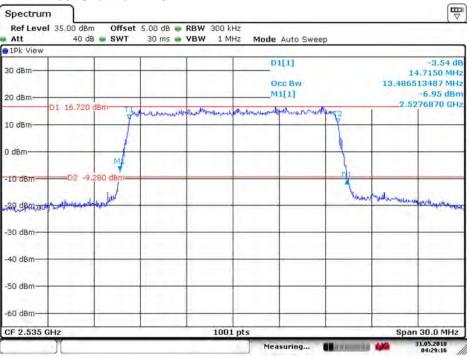


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4.1.1.7 Test Mode = LTE/TM1 15MHz



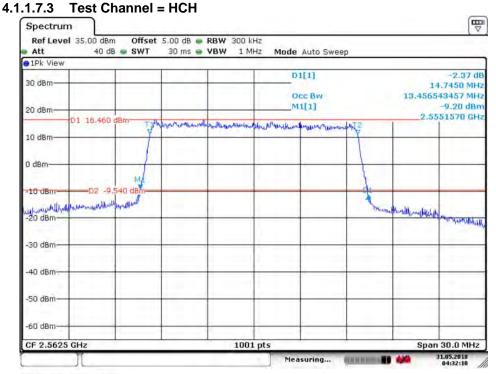
4.1.1.7.2 Test Channel = MCH



Date: 31.MAY.2018 04:29:17



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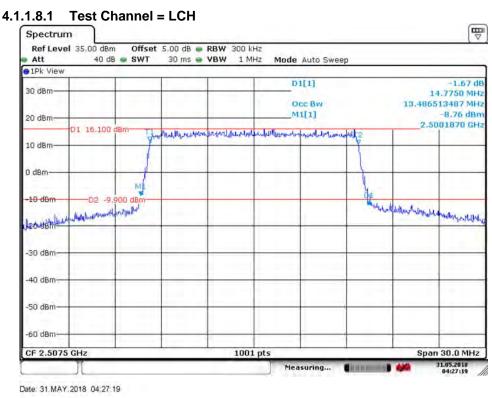
Date: 31 MAY 2018 04:32:10

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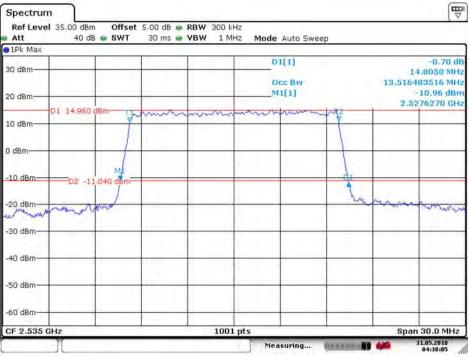


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4.1.1.8 Test Mode = LTE/TM2 15MHz



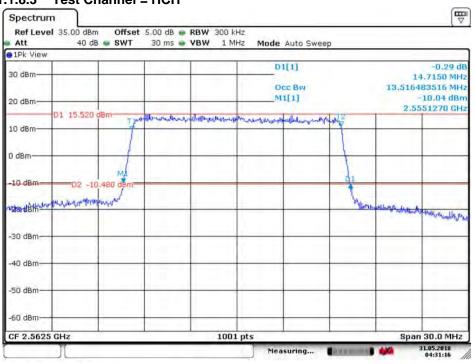
4.1.1.8.2 Test Channel = MCH



Date: 31.MAY.2018 04:30:05



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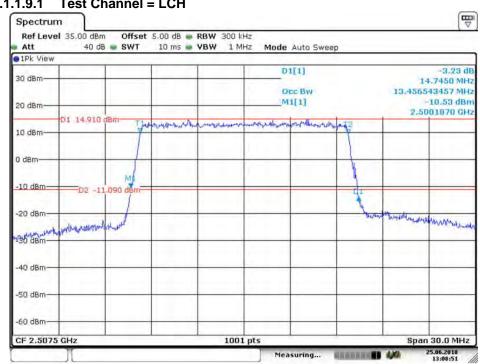
4.1.1.8.3 Test Channel = HCH

Date: 31.MAY.2018 04:31:16

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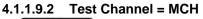
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4.1.1.9 Test Mode = LTE/TM3 15MHz

4.1.1.9.1 Test Channel = LCH

Date: 25.JUN.2018 13:08:51

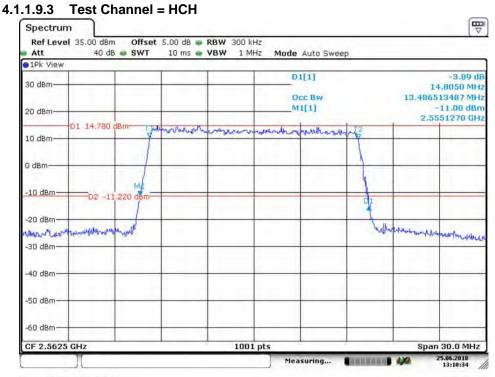


Ref Level 35.00 dBm Offset 5.00 dB Att 40 dB SWT 10 ms				
1Pk View				
30 dBm	D1[1] Occ Bw M1[1]	-3.24 di 14.7158 MH 13.456543457 MH -10.54 dBn		
20 dBm-	- materi	2.5276870 GH		
01 14,940 dBm Todown/www.	water and the second of the second	12		
0 dBm				
-10.dBmD2 -11.060 dBm		- the -		
-20 dBm		The man have been and the second and		
130 photo and a standard and a stand				
-40 dBm				
-50 dBm				
-60 dBm				
CF 2.535 GHz	1001 pts	Span 30.0 MHz		

Date: 25.JUN.2018 13:09:44



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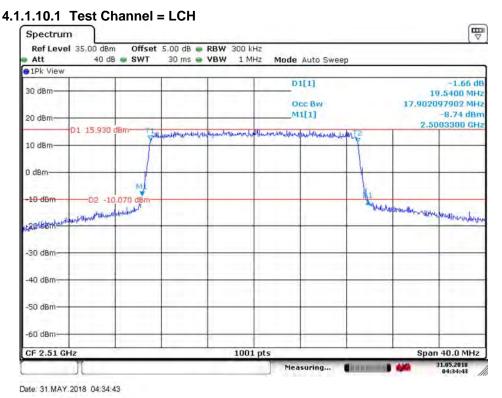


Date: 25. JUN 2018 13: 10:35

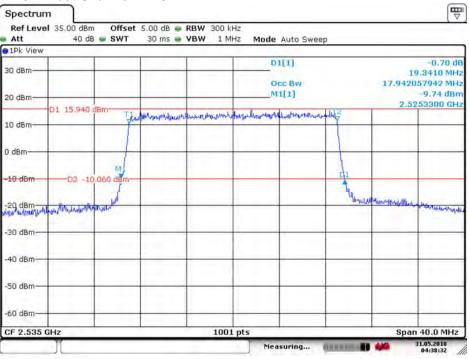


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4.1.1.10 Test Mode = LTE/TM1 20MHz



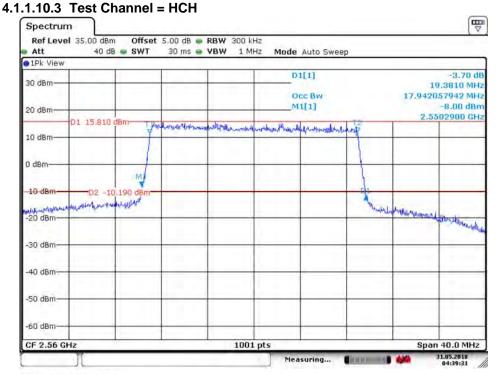
4.1.1.10.2 Test Channel = MCH



Date: 31 MAY 2018 04:38:33



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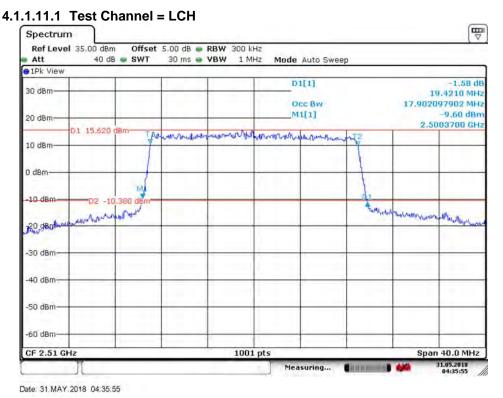
Date: 31.MAY.2018 04:39:31

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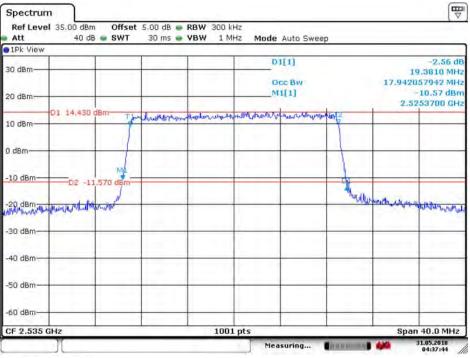


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4.1.1.11 Test Mode = LTE/TM2 20MHz



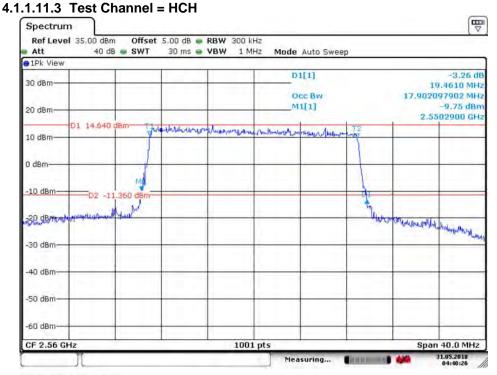
4.1.1.11.2 Test Channel = MCH



Date: 31.MAY.2018 04:37:44



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Date: 31 MAY 2018 04:40:26

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4.1.1.12.1 Test Channel = LCH **B** Spectrum Ref Level 35.00 dBm Offset 5.00 dB . RBW 300 kHz Att 40 dB 🖝 SWT 10 ms 🖝 VBW 1 MHz Mode Auto Sweep 1Pk View D1[1] -1.78 dE 30 dBm 19.3810 MH OCC BW 17.902097902 MHz M1[1] -12.57 dBm 20 dBm-2.5003300 GHz D1 13.090 dBm underhaller no-thequeralider manutary What you have my 10 dBm-0 dBm--10 dBm -D2 -12.910 dBr -20 dBm hutter and an and a support of the second A Martine Ha -39, dBmitt 40 dBm -50 dBm -60 dBm 1001 pts Span 40.0 MHz CF 2.51 GHz 25.06.2018 13:11:52 Measuring... ARRENO 444

4.1.1.12 Test Mode = LTE/TM3 20MHz

Date: 25.JUN.2018 13:11:53

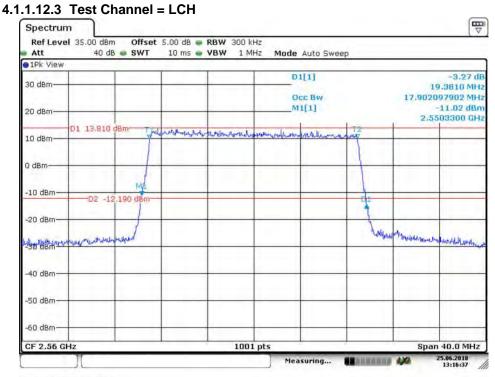
4.1.1.12.2 Test Channel = LCH

Att	40 dt	S SWT	10 ms 🖷	VBW 1 MHz	Mode Auto Swe	iep			
1Pk View		-	1	1. 1.	D1[1]			-2.93 di	
30 dBm				-	OI[1]		19.3410 MHz		
		1			Occ Bw		17.902097902 MH		
20 dBm				-	M1[1]		-10.79 dBn 2.5253700 GH		
	D1 13.590	dBm T1			medlementarpulsieron	132		adree an	
10 dBm		1	anthe take	Marken Shaking	APPROX APPROX APPROX	A DA			
0 dBm		1	1			4			
-10 dBm		ML							
-10 0511		2.410 dBm-				da		-	
-20 dBm						1			
						hours	manushawa	to well the	
-30 dBm	minulul your	millet				-	- ALL -	words although the	
and the state of	date and and	form.							
-40 dBm			-			-	-		
6.3									
-50 dBm						-			
-60 dBm							1		
CF 2.535 C	Hz			1001 p	ts		Span	40.0 MHz	

Date: 25.JUN.2018 13:12:33



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Date: 25.JUN.2018 13:16:38



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5 Band Edges Compliance

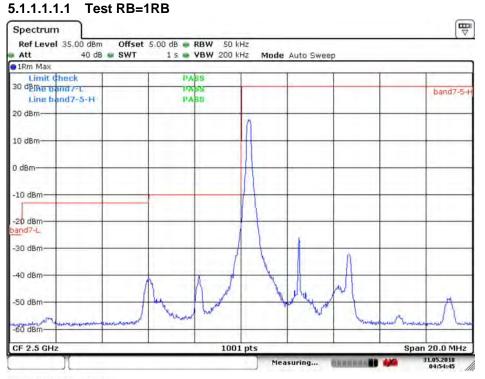
Part I –

5.1 For LTE

5.1.1 Test Band = LTE BAND 7

5.1.1.1 Test Mode = LTE/TM1 5MHz

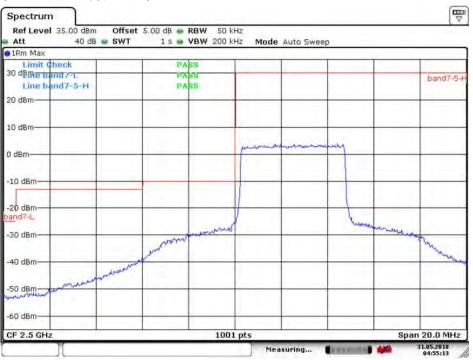
5.1.1.1.1 Test Channel = LCH



Date: 31.MAY.2018 04:54:46



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5.1.1.1.1.2 Test RB=25RB

Date: 31.MAY.2018 04:55:13

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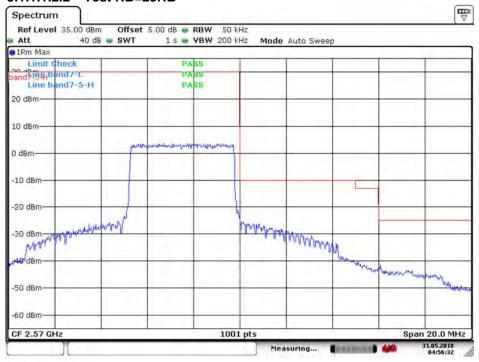


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5.1.1.1.2.1 Test RB=1RB Spectrum Ref level 35.00 dBm Offset 5.00 dB . RBW 50 kHz 1 s - VBW 200 kHz Mode Auto Sweep 40 dB 🕒 SWT Att 1Rm Max Limit Check PASS and Be bond /-L 20 PASS Line band7-5-H PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -SO dBm the Ma 4. Holeway grouped out many -60 dBm CE 2.57 GHz 1001 nts Span 20.0 MHz Measuring... 31.05.2018 04:56:51 Cananani 🖉 🗰

5.1.1.1.2 Test Channel = HCH

Date: 31.MAY.2018 04:56:51



5.1.1.1.2.2 Test RB=25RB

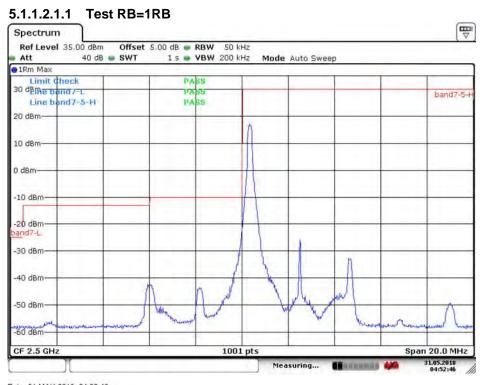
Date: 31.MAY.2018 04:56:33



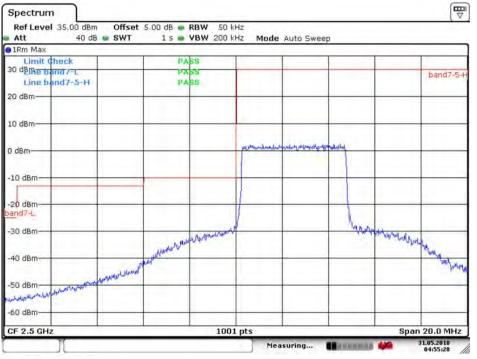
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5.1.1.2 Test Mode = LTE/TM2 5MHz

5.1.1.2.1 Test Channel = LCH



Date: 31.MAY.2018 04:52:46



5.1.1.2.1.2 Test RB=25RB

Date: 31.MAY.2018 04:55:28

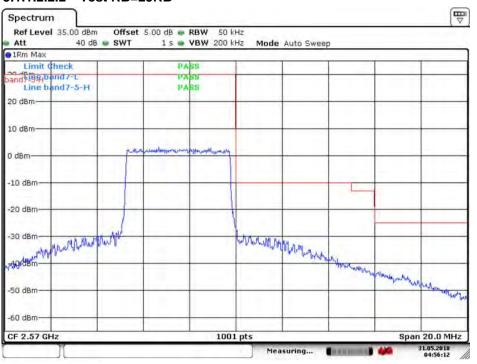


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5.1.1.2.2.1 Test RB=1RB Spectrum Ref Level 35.00 dBm Offset 5.00 dB . RBW 50 kHz 1 s - VBW 200 kHz Mode Auto Sweep 40 dB 🕒 SWT Att 1Rm Max Limit Check PARS and Be bond /-L 20 PASS Line band7-5-H PASS 20 dBm 1 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -SO dBm Lauge Margaret 4 Jul MUR / -60 dBm-CE 2.57 GHz 1001 nts Span 20.0 MHz Measuring... 31.05.2018

5.1.1.2.2 Test Channel = HCH

Date: 31.MAY.2018 04:57:16



5.1.1.2.2.2 Test RB=25RB

Date: 31.MAY.2018 04:56:12



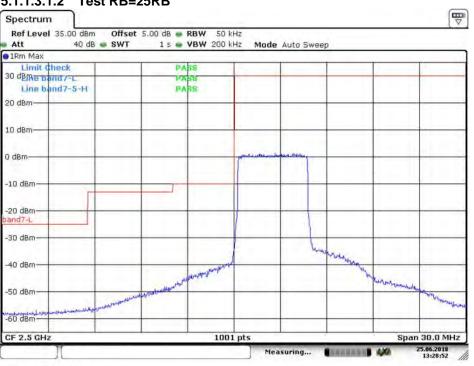
Report No.: SZEM180500453501 Page: 54 of 86

5.1.1.3 Test Mode = LTE/TM3 5MHz

5.1.1.3.1 Test Channel = LCH

5.1.1.3.1.1 Test RB=1RB Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🖝 RBW 50 kHz Att 40 dB 🖝 SWT 1 s . VBW 200 kHz Mode Auto Sweep 1Rm Max Limit Check 30 dBme band /-L UALS Line band7-5-H PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm and7--30 dBm -40 dBm -50 dBm -60 dBm CF 2.5 GHz 1001 pts Span 30.0 MHz 25.06.2018 Measuring... CONTRACTOR 440

Date: 25.JUN.2018 13:29:29

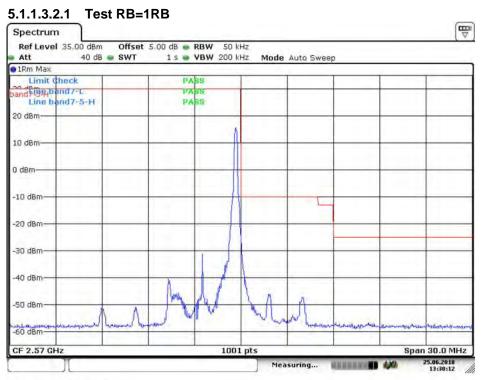


5.1.1.3.1.2 Test RB=25RB

Date: 25.JUN.2018 13:28:53

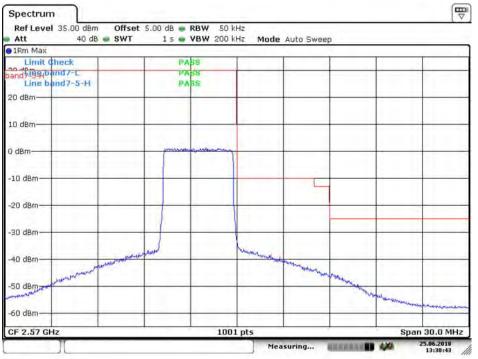


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5.1.1.3.2 Test Channel = HCH

Date: 25.JUN.2018 13:30:13



5.1.1.3.2.2 Test RB=25RB

Date: 25. JUN 2018 13:30:43

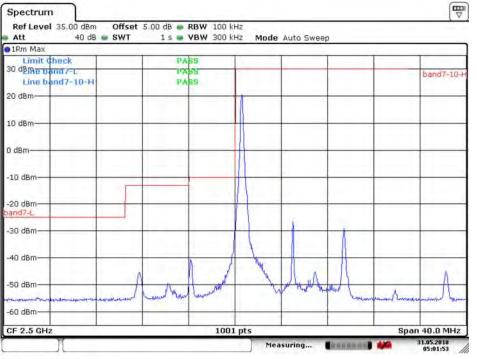


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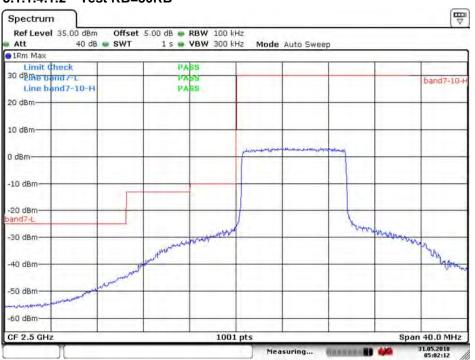
5.1.1.4 Test Mode = LTE/TM1 10MHz

5.1.1.4.1 Test Channel = LCH

5.1.1.4.1.1 Test RB=1RB



Date: 31.MAY.2018 05:01:54



5.1.1.4.1.2 Test RB=50RB

Date: 31.MAY.2018 05:02:12

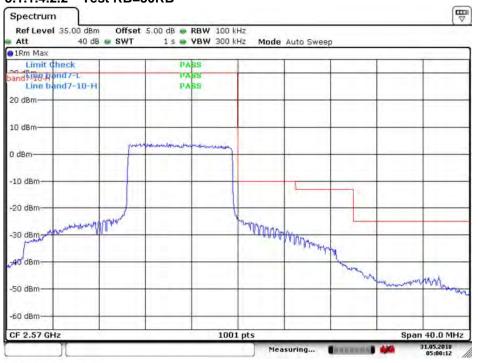


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5.1.1.4.2.1 Test RB=1RB . Spectrum Ref Level 35.00 dBm Offset 5.00 dB . RBW 100 kHz 1 s - VBW 300 kHz Mode Auto Sweep 40 dB 🖝 SWT Att 1Rm Max Limit Check PARS Line band7-10-H 20 PASS PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm ٨ -SO dBm 1 -60 dBm CE 2.57 GHz 1001 nts Span 40.0 MHz Measuring... 31.05.2018 China and an and a state of the

5.1.1.4.2 Test Channel = HCH

Date: 31.MAY.2018 05:00:36



5.1.1.4.2.2 Test RB=50RB

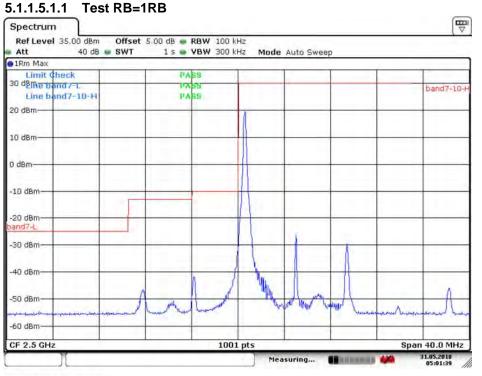
Date: 31.MAY.2018 05:00:12



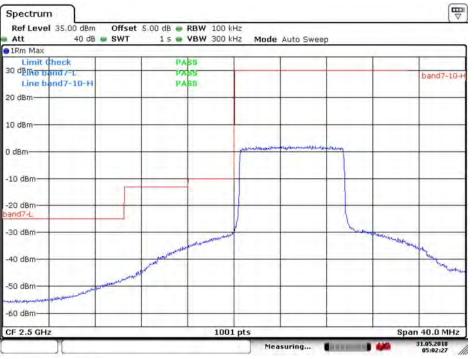
Report No.: SZEM180500453501 Page: 58 of 86

5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH



Date: 31.MAY.2018 05:01:39



5.1.1.5.1.2 Test RB=50RB

Date: 31.MAY.2018 05:02:27

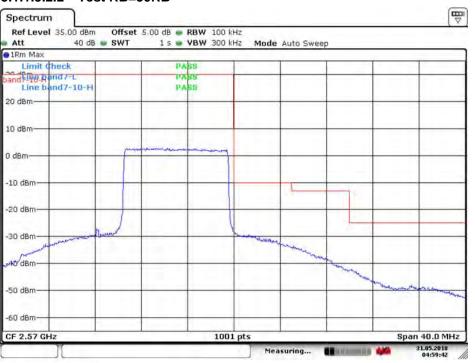


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5.1.1.5.2.1 Test RB=1RB Spectrum Reflevel 35.00 dBm Offset 5.00 dB . RBW 100 kHz 1 s - VBW 300 kHz Mode Auto Sweep 40 dB 🖝 SWT Att 1Rm Max Limit Check PASS Line band7-10-H PASS PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm--50 dBm-Mur) Ant Λ -60 dBm CE 2.57 GHz 1001 nts Span 40.0 MHz Measuring... 31.05.2018 Ciencen mail 🗰

5.1.1.5.2 Test Channel = HCH

Date: 31.MAY.2018 05:00:57



5.1.1.5.2.2 Test RB=50RB

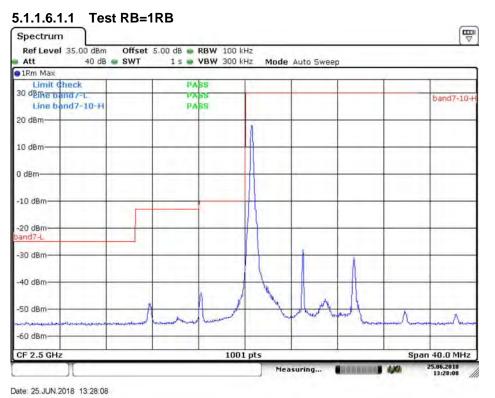
Date: 31.MAY.2018 04:59:42



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5.1.1.6 Test Mode = LTE/TM3 10MHz

5.1.1.6.1 Test Channel = LCH



5.1.1.6.1.2 Test RB=50RB

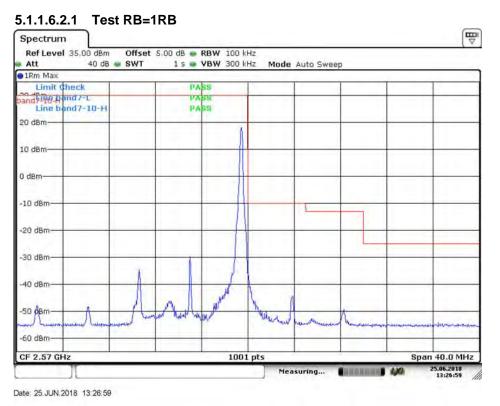


Date: 25.JUN.2018 13:27:46

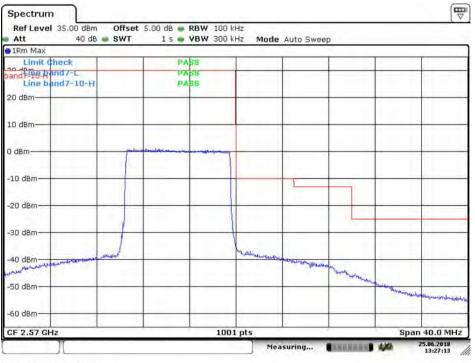


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5.1.1.6.2 Test Channel = HCH



5.1.1.6.2.2 Test RB=50RB



Date: 25.JUN.2018 13:27:14

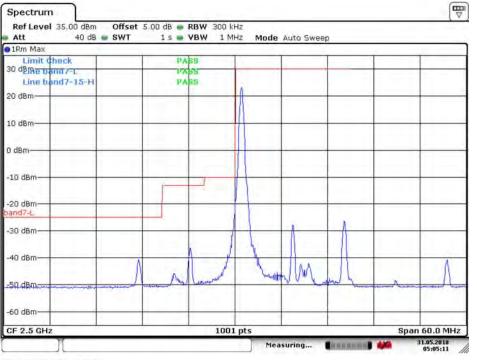


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5.1.1.7 Test Mode = LTE/TM1 15MHz

5.1.1.7.1 Test Channel = LCH

5.1.1.7.1.1 Test RB=1RB



Date: 31.MAY.2018 05:05:12



5.1.1.7.1.2 Test RB=75RB

Date: 31.MAY.2018 05:04:15



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5.1.1.7.2.1 Test RB=1RB Spectrum Reflevel 35.00 dBm Offset 5.00 dB . RBW 300 kHz Mode Auto Sweep 40 dB . SWT 1 s . VBW 1 MHz Att 1Rm Max Limit Check PASS antbang ABABAD PULA /-L PASS Line band7-15-H PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm M 50 dBr -60 dBm CE 2.57 GHz 1001 nts Span 60.0 MHz Measuring... 31.05.2018

5.1.1.7.2 Test Channel = HCH

Date: 31.MAY.2018 05:06:16



5.1.1.7.2.2 Test RB=75RB

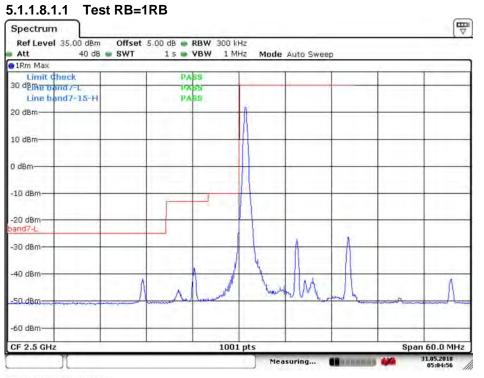
Date: 31.MAY.2018 05:07:10



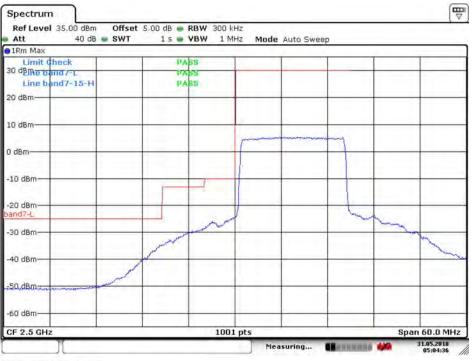
Report No.: SZEM180500453501 Page: 64 of 86

5.1.1.8 Test Mode = LTE/TM2 15MHz

5.1.1.8.1 Test Channel = LCH



Date: 31.MAY.2018 05:04:56



5.1.1.8.1.2 Test RB=75RB

Date: 31.MAY.2018 05:04:36



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5.1.1.8.2.1 Test RB=1RB Spectrum Reflevel 35.00 dBm Offset 5.00 dB . RBW 300 kHz Mode Auto Sweep 40 dB . SWT 1 s . VBW 1 MHz Att 1Rm Max Limit Check PASS antbang ABABAD PULA /-L PASS Line band7-15-H PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm M 50 dBm -60 dBm CE 2.57 GHz 1001 nts Span 60.0 MHz Measuring... 31.05.2018 Concernit 🗰

5.1.1.8.2 Test Channel = HCH

Date: 31.MAY 2018 05:06:35



5.1.1.8.2.2 Test RB=75RB

Date: 31.MAY.2018 05:06:54



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5.1.1.9 Test Mode = LTE/TM3 15MHz

5.1.1.9.1 Test Channel = LCH

5.1.1.9.1.1 Test RB=1RB -Spectrum Ref Level 35.00 dBm Offset 5.00 dB 🖝 RBW 300 kHz Att 40 dB 🖝 SWT 1 s . VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check 30 dBme band /-L UNIO band7-15-Line band7-15-H PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm and7--30 dBm -40 dBm-N -50 dBm--60 dBm-CF 2.5 GHz 1001 pts Span 60.0 MHz 25.06.2018 ARGERTON 400 Measuring...

Date: 25.JUN.2018 13:24:41



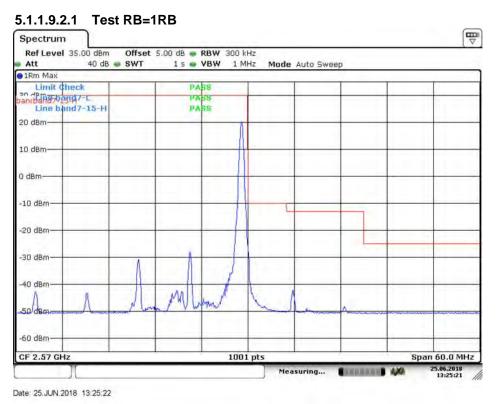
5.1.1.9.1.2 Test RB=75RB

Date: 25.JUN.2018 13:24:20



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5.1.1.9.2 Test Channel = HCH



B Spectrum Ref Level 35.00 dBm Offset 5.00 dB - RBW 300 kHz Att 40 dB 🖝 SWT 1 s 🖝 VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PASS Line band7-15-H PASS 20 dBm-10 dBm 0 dBm--10 dBm T -20 dBm -30 dBm--40, d8m -50 dBm--60 dBm-CF 2.57 GHz 1001 pts Span 60.0 MHz 25.06.2018 Measuring... -----13:25:30

5.1.1.9.2.2 Test RB=75RB

Date: 25.JUN.2018 13:25:36

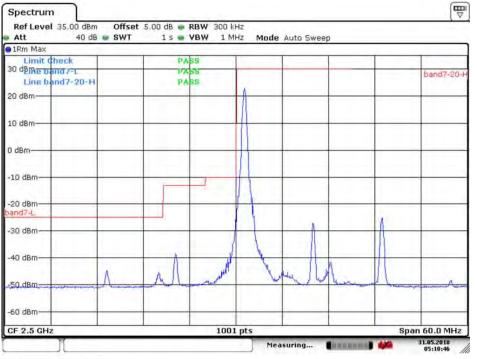


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5.1.1.10 Test Mode = LTE/TM1 20MHz

5.1.1.10.1 Test Channel = LCH

5.1.1.10.1.1 Test RB=1RB



Date: 31.MAY.2018 05:10:46



5.1.1.10.1.2 Test RB=100RB

Date: 31.MAY.2018 05:11:00

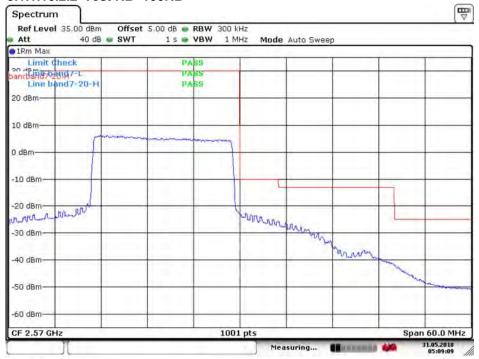


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5.1.1.10.2.1 Test RB=1RB Spectrum Reflevel 35.00 dBm Offset 5.00 dB . RBW 300 kHz Mode Auto Sweep 40 dB . SWT 1 s . VBW 1 MHz Att 1Rm Max Limit Check PASS anchal Barbard /-L PASS Line band7-20-H PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm SC dam -60 dBm CE 2.57 GHz 1001 nts Span 60.0 MHz Measuring... 31.05.2018

5.1.1.10.2 Test Channel = HCH

Date: 31.MAY.2018 05:09:37



5.1.1.10.2.2 Test RB=100RB

Date: 31.MAY.2018 05:09:09



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5.1.1.11 Test Mode = LTE/TM2 20MHz

5.1.1.11.1 Test Channel = LCH

5.1.1.11.1.1 Test RB=1RB **B** Spectrum Ref Level 35.00 dBm Offset 5.00 dB . RBW 300 kHz 1 s 🖝 VBW 1 MHz 40 dB 🖷 SWT Att Mode Auto Sweep 1Rm Max Limit Check PASS 30 dBMe band /-I PASS band7-20-Line band7-20-H PASS 20 dBm-10 dBm-0 dBm--10 dBm--20 dBm -30 dBm -40 dBm 1 -50.dBm--60 dBm-CF 2.5 GHz 1001 pts Span 60.0 MHz 31.05.2018 Measuring...

Date: 31.MAY.2018 05:10:30



5.1.1.11.1.2 Test RB=100RB

Date: 31.MAY.2018 05:11:17



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5.1.1.11.2.1 Test RB=1RB Spectrum Reflevel 35.00 dBm Offset 5.00 dB . RBW 300 kHz Mode Auto Sweep 40 dB . SWT 1 s . VBW 1 MHz Att 1Rm Max Limit Check PASS anchal Barbard /-L PASS Line band7-20-H PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm SO dem: -60 dBm CE 2.57 GHz 1001 nts Span 60.0 MHz Measuring... 31.05.2018 Chiermannin .

5.1.1.11.2 Test Channel = HCH

Date: 31.MAY 2018 05:09:50



5.1.1.11.2.2 Test RB=100RB

Date: 31.MAY.2018 05:08:44

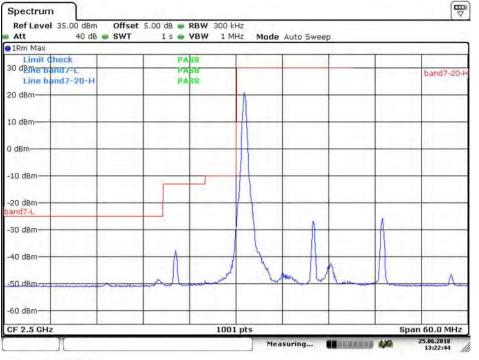


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5.1.1.12 Test Mode = LTE/TM3 20MHz

5.1.1.12.1 Test Channel = LCH

5.1.1.12.1.1 Test RB=1RB



Date: 25.JUN.2018 13:22:44



5.1.1.12.1.2 Test RB=100RB

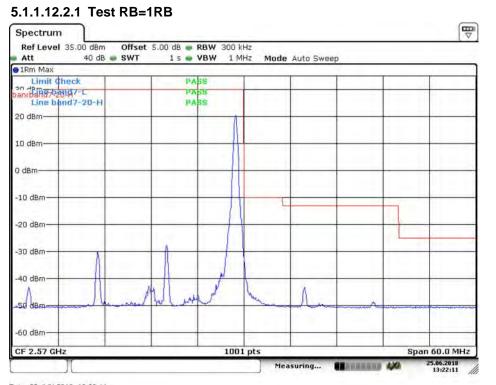
Date: 25.JUN.2018 13:23:01

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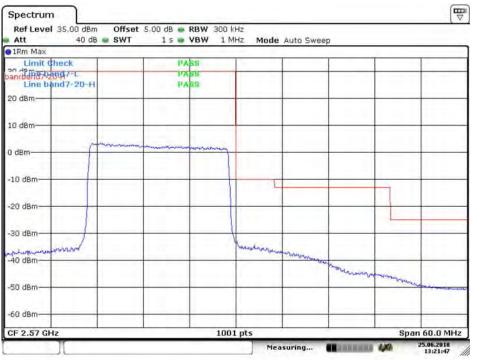


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5.1.1.12.2 Test Channel = HCH



Date: 25. JUN 2018 13:22:11



5.1.1.12.2.2 Test RB=100RB

Date: 25.JUN.2018 13:21:48

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6 Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

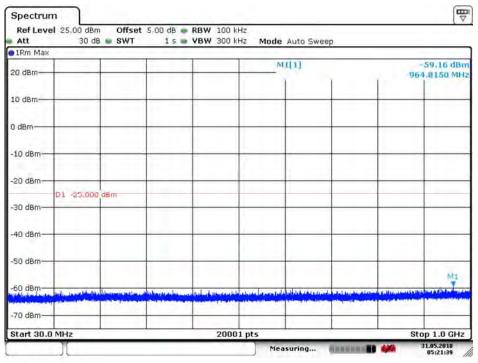
Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = LTE BAND 7

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

6.1.1.1.1 Test Channel = LCH

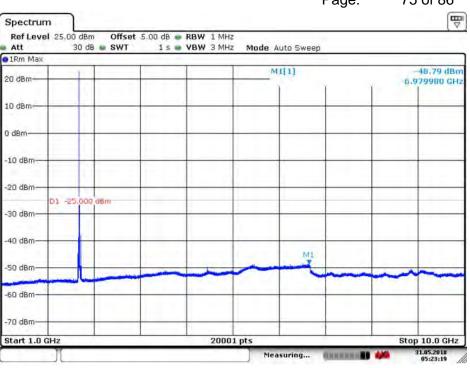


Date: 31.MAY.2018 05:21:38

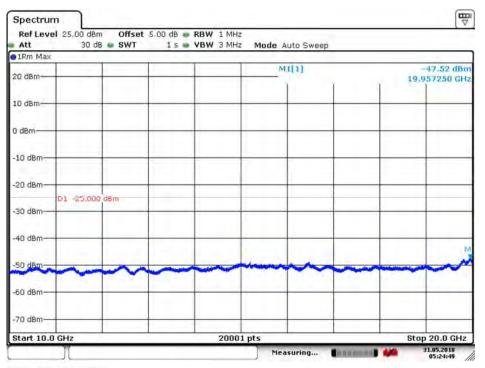
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Date: 31 MAY 2018 05:23:20

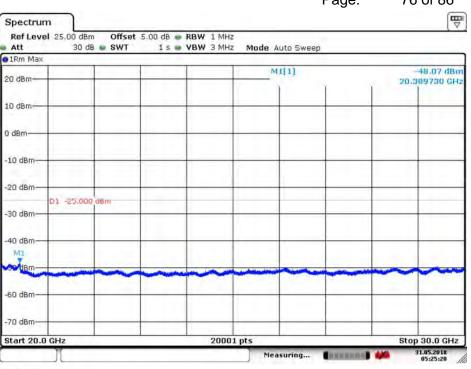


Date: 31.MAY.2018 05:24:50

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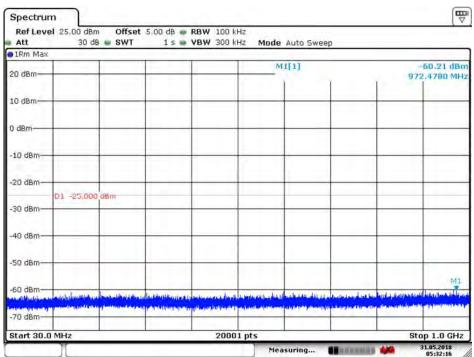


Date: 31.MAY.2018 05:25:20

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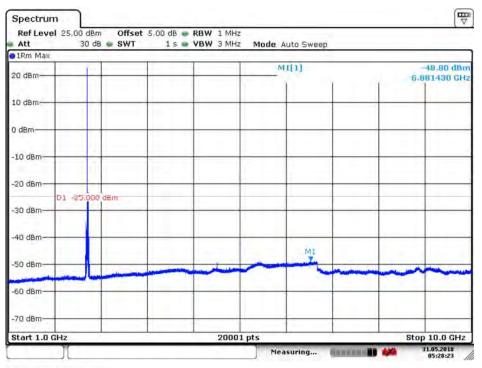


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6.1.1.1.2 Test Channel = MCH

Date: 31.MAY.2018 05:32:17

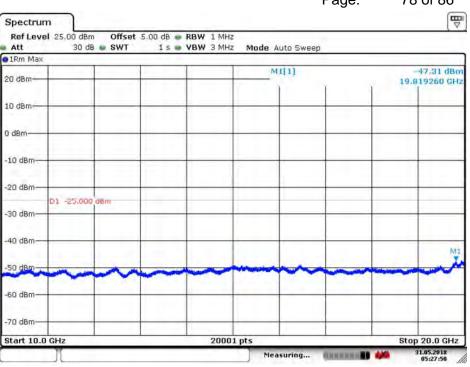


Date: 31.MAY.2018 05:28:24

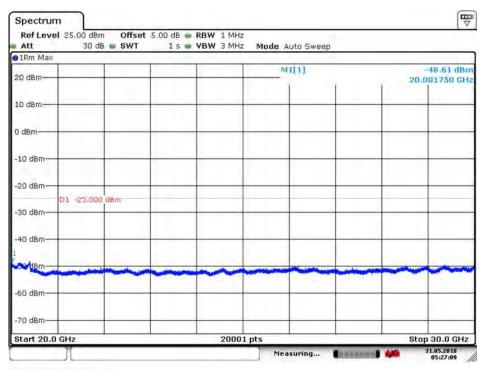
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Date: 31.MAY 2018 05:27:50

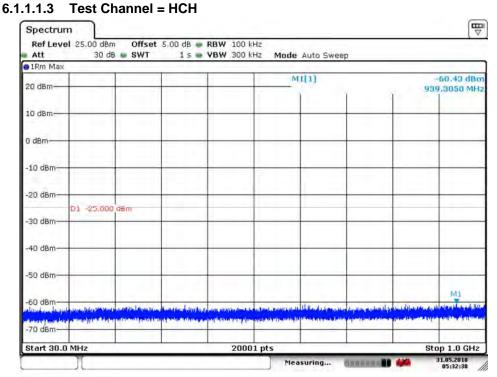


Date: 31.MAY.2018 05:27:09

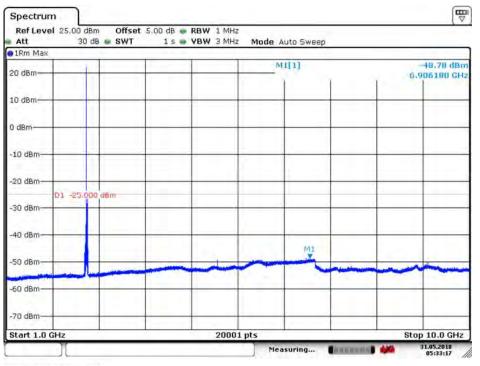
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Date: 31.MAY.2018 05:32:38

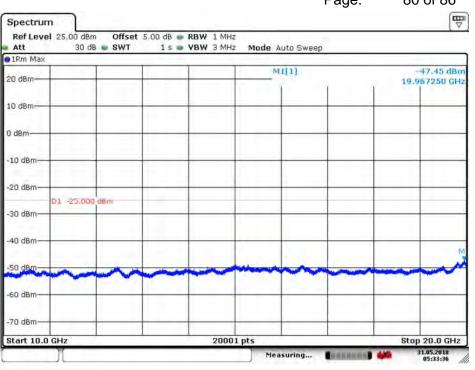


Date: 31.MAY.2018 05:33:17

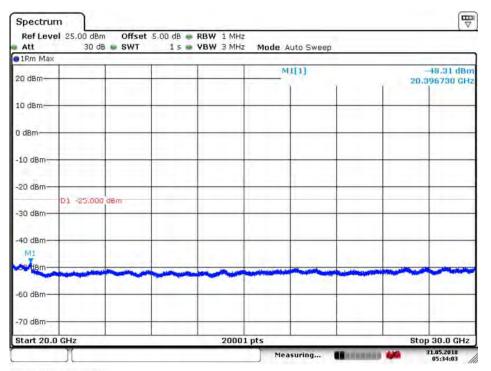
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7 Field Strength of Spurious Radiation

7.1 For LTE

7.1.1 Test Band = LTE BAND 7

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

7.1.1.1.1	Test Channel = LC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
74.600000	-79.78	-25.00	54.78	Vertical
182.200000	-79.66	-25.00	54.66	Vertical
513.616667	-81.64	-25.00	56.64	Vertical
1980.500000	-51.86	-25.00	26.86	Vertical
5001.675000	-66.04	-25.00	41.04	Vertical
10004.400000	-61.90	-25.00	36.90	Vertical
63.300000	-77.76	-25.00	52.76	Horizontal
182.250000	-71.07	-25.00	46.07	Horizontal
623.112500	-80.12	-25.00	55.12	Horizontal
1980.500000	-47.26	-25.00	22.26	Horizontal
5001.675000	-65.85	-25.00	40.85	Horizontal
7865.250000	-63.72	-25.00	38.72	Horizontal

7.1.1.1.1 Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
74.650000	-78.89	-25.00	53.89	Vertical
181.450000	-79.51	-25.00	54.51	Vertical
513.112500	-81.80	-25.00	56.80	Vertical
2005.500000	-54.49	-25.00	29.49	Vertical
5052.050000	-65.41	-25.00	40.41	Vertical
10104.500000	-61.02	-25.00	36.02	Vertical
55.850000	55.850000	55.850000	55.850000	Horizontal
182.200000	182.200000	182.200000	182.200000	Horizontal
623.112500	623.112500	623.112500	623.112500	Horizontal
2005.500000	2005.500000	2005.500000	2005.500000	Horizontal
5052.050000	5052.050000	5052.050000	5052.050000	Horizontal
7875.975000	7875.975000	7875.975000	7875.975000	Horizontal

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7.1.1.1.1	Test Channel = HC	CH		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
73.650000	-79.48	-25.00	54.48	Vertical
179.450000	-80.14	-25.00	55.14	Vertical
514.670833	-81.44	-25.00	56.44	Vertical
2030.500000	-56.70	-25.00	31.70	Vertical
5101.775000	-65.70	-25.00	40.70	Vertical
10204.275000	-62.89	-25.00	37.89	Vertical
63.300000	-77.87	-25.00	52.87	Horizontal
184.200000	-70.60	-25.00	45.60	Horizontal
622.470833	-80.40	-25.00	55.40	Horizontal
2030.500000	-48.97	-25.00	23.97	Horizontal
5102.100000	-65.63	-25.00	40.63	Horizontal
8658.575000	-63.83	-25.00	38.83	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.

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
				VL	4.77	0.00190	PASS
		LCH	TN	VN	-2.54	-0.00101	PASS
				VH	-5.27	-0.00210	PASS
				VL	-0.15	-0.00006	PASS
	LTE/TM1 20MHz	MCH	TN	VN	7.38	0.00291	PASS
				VH	2.82	0.00111	PASS
				VL	-4.73	-0.00185 0.00367	PASS
		HCH	TN	VN	9.40	0.00367	PASS
				VH	-2.24	-0.00088	PASS
				VL	1.42	0.00057	PASS
		LCH	TN	VN	6.00	0.00239	PASS
				VH	-2.11	-0.00084	PASS
	LTE/TM2 20MHz	МСН	TN	VL	-9.74	-0.00384	PASS
LTEBAND 7				VN	-4.41	-0.00174	PASS
				VH	-5.71	-0.00225	PASS
		НСН	TN	VL	-4.38	-0.00171	PASS
				VN	8.05	0.00314	PASS
				VH	4.35	0.00170	PASS
			TN	VL	-4.93	-0.001963	PASS
		LCH		VN	5.20	0.002072	PASS
				VH	8.97	0.003573	PASS
				VL	-5.32	-0.002100	PASS
	LTE/TM3 20MHz	MCH	TN	VN	-6.78	-0.002673	PASS
				VH	-2.92	-0.001154	PASS
				VL	-6.86	-0.002679	PASS
		HCH	TN	VN	3.53	0.001378	PASS
				VH	8.28	0.003234	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	-0.32	-0.00013	PASS
				-20	-8.57	-0.00342	PASS
				-10	9.39	0.00374	PASS
				0	9.54	0.00380	PASS
		LCH	VN	10	-1.40	-0.00056 P/	PASS
				20	1.60	0.00064	PASS
				30	1.05	0.00042	PASS
				40	-0.04	-0.00001	PASS
				50	-0.06	-0.00002	PASS
				-30	-6.35	-0.00250	PASS
				-20	8.93	0.00352	PASS
				-10	7.93	0.00313	PASS
				0	0.81	0.00032	PASS
LTEBAND 7	LTE/TM1 20MHz	МСН	VN	10	-6.59	-0.00260	PASS
1				20	6.46	0.00255	PASS
				30	-0.45	-0.00018	PASS
				40	-6.47	-0.00013 -0.00342 0.00374 0.00380 -0.00056 0.00064 0.00042 -0.00001 -0.00002 -0.00250 0.00352 0.00313 0.00032 -0.00260 0.00255	PASS
				50	7.68		PASS
				-30	-9.35	-0.00365	PASS
				-20	-3.64	-0.00142	PASS
				-10	-8.73	-0.00341	PASS
				0	-8.23	-0.00322	PASS
		НСН	VN	10	7.72	0.00301	PASS
				20	6.32	0.00247	PASS
				30	6.94	0.00271	PASS
				40	-1.83	-0.00071	PASS
				50	-5.12	-0.00200	PASS

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			Faye.	00 00 00			
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	5.65	0.00225	PASS
				-20	9.01	0.00359	PASS
				-10	-9.84	-0.00392	PASS
				0	6.22	0.00248	PASS
		LCH	VN	10	5.87	0.00234	PASS
				20	-9.50	-0.00378	PASS
				30	-6.64	-0.00265	PASS
				40	9.05	0.00360	PASS
				50	-1.10	-0.00044	PASS
				-30	8.70	0.00343	PASS
				-20	-4.42	-0.00174	PASS
				-10	-0.22	-0.00009	PASS
				0	-2.61	-0.00103	PASS
LTEBAND 7	LTE/TM2 20MHz	МСН	VN	10	-5.74	-0.00226	PASS
				20	0.08	0.00003	PASS
				30	8.85	0.00349	PASS
				40	-5.41	-0.00214	PASS
				50	4.48	0.00177	PASS
				-30	6.58	0.00257	PASS
				-20	5.84	0.00228	PASS
				-10	2.28	0.00089	PASS
				0	0.77	0.00030	PASS
		HCH	VN	10	-5.54	-0.00216	PASS
				20	7.45	0.00291	PASS
				30	-2.18	-0.00085	PASS
				40	0.19	0.00007	PASS
				50	9.00	0.00352	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-3.08	-0.001228	PASS
				-20	-9.40	-0.003744	PASS
				-10	6.74	0.002685	PASS
				0	0.05	0.000021	PASS
		LCH	VN	10	-6.39	-0.002546	PASS
				20	-0.39	-0.000156	PASS
				30	-4.05	-0.001615	PASS
				40	4.64	0.001851	PASS
				50	-9.22	-0.003672	PASS
			VN	-30	8.38	0.003304	PASS
	LTE/TM3 20MHz	МСН		-20	-1.01	-0.000400	PASS
				-10	0.04	0.000017	PASS
				0	5.41	0.002134	PASS
LTEBAND 7				10	-5.10	-0.002012	PASS
				20	-6.00	-0.002366	PASS
				30	3.43	0.001352	PASS
				40	-0.52	-0.000205	PASS
				50	-1.24	-0.000488	PASS
				-30	-9.44	-0.003687	PASS
				-20	6.09	0.002380	PASS
				-10	-2.93	-0.001144	PASS
				0	-3.49	-0.001364	PASS
		HCH	VN	10	0.63	0.000245	PASS
				20	-5.47	-0.002136	PASS
				30	-6.73	-0.002628	PASS
				40	-1.03	-0.000401	PASS
				50	-4.52	-0.001765	PASS

The End

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