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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	22.16	18.96	33.00	PASS
				RB1#13	22.17	18.97	33.00	PASS
				RB1#24	22.18	18.98	33.00	PASS
			LCH	RB12#0	21.22	18.02	33.00	PASS
				RB12#6	21.16	17.96	33.00	PASS
				RB12#13	21.21	18.01	33.00	PASS
				RB25#0	21.16	17.96	33.00	PASS
				RB1#0	22.14	18.94	33.00	PASS
				RB1#13	22.22	19.02	33.00	PASS
				RB1#24	22.22	19.02	33.00	PASS
BAND7	LTE/TM1	5M	MCH	RB12#0	21.17	17.97	33.00	PASS
				RB12#6	21.13	17.93	33.00	PASS
				RB12#13	21.27	18.07	33.00	PASS
				RB25#0	21.17	17.97	33.00	PASS
				RB1#0	22.19	18.99	33.00	PASS
				RB1#13	22.26	19.06	33.00	PASS
				RB1#24	22.30	19.1	33.00	PASS
			НСН	RB12#0	21.26	18.06	33.00	PASS
				RB12#6	21.25	18.05	33.00	PASS
				RB12#13	21.29	18.09	33.00	PASS
				RB25#0	21.27	18.07	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	21.47	18.27	33.00	PASS
				RB1#13	21.48	18.28	33.00	PASS
				RB1#24	21.46	18.26	33.00	PASS
			LCH	RB12#0	20.14	16.94	33.00	PASS
				RB12#6	20.08	16.88	33.00	PASS
				RB12#13	20.18	16.98	33.00	PASS
				RB25#0	20.10	16.9	33.00	PASS
				RB1#0	21.47	18.27	33.00	PASS
	LTE/TM2	5M		RB1#13	21.52	18.32	33.00	PASS
			МСН	RB1#24	21.52	18.32	33.00	PASS
BAND7				RB12#0	20.19	16.99	33.00	PASS
				RB12#6	20.13	16.93	33.00	PASS
				RB12#13	20.17	16.97	33.00	PASS
				RB25#0	20.14	16.94	33.00	PASS
				RB1#0	21.51	18.31	33.00	PASS
				RB1#13	21.63	18.43	33.00	PASS
				RB1#24	21.59	18.39	33.00	PASS
			НСН	RB12#0	20.17	16.97	33.00	PASS
				RB12#6	20.17	16.97	33.00	PASS
				RB12#13	20.28	17.08	33.00	PASS
				RB25#0	20.19	16.99	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	21.24	18.04	33.00	PASS
				RB1#13	21.22	18.02	33.00	PASS
				RB1#24	21.22	18.02	33.00	PASS
			LCH	RB12#0	20.17	16.97	33.00	PASS
				RB12#6	20.17	16.97	33.00	PASS
				RB12#13	20.18	16.98	33.00	PASS
				RB25#0	20.09	16.89	33.00	PASS
				RB1#0	21.22	18.02	33.00	PASS
	LTE/TM3	5M		RB1#13	21.27	18.07	33.00	PASS
			МСН	RB1#24	21.26	18.06	33.00	PASS
BAND7				RB12#0	20.20	17	33.00	PASS
				RB12#6	20.13	16.93	33.00	PASS
				RB12#13	20.21	17.01	33.00	PASS
				RB25#0	20.13	16.93	33.00	PASS
				RB1#0	21.37	18.17	33.00	PASS
				RB1#13	21.34	18.14	33.00	PASS
				RB1#24	21.41	18.21	33.00	PASS
			НСН	RB12#0	20.22	17.02	33.00	PASS
				RB12#6	20.27	17.07	33.00	PASS
				RB12#13	20.27	17.07	33.00	PASS
				RB25#0	20.19	16.99	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	22.18	18.98	33.00	PASS
				RB1#25	22.30	19.1	33.00	PASS
				RB1#49	22.24	19.04	33.00	PASS
			LCH	RB25#0	21.18	17.98	33.00	PASS
				RB25#13	21.17	17.97	33.00	PASS
				RB25#25	21.22	18.02	33.00	PASS
				RB50#0	21.19	17.99	33.00	PASS
				RB1#0	22.09	18.89	33.00	PASS
	LTE/TM1	10M	МСН	RB1#25	22.00	18.8	33.00	PASS
				RB1#49	22.25	19.05	33.00	PASS
BAND7				RB25#0	21.17	17.97	33.00	PASS
				RB25#13	21.20	18	33.00	PASS
				RB25#25	21.24	18.04	33.00	PASS
				RB50#0	21.18	17.98	33.00	PASS
				RB1#0	22.24	19.04	33.00	PASS
				RB1#25	21.99	18.79	33.00	PASS
				RB1#49	22.27	19.07	33.00	PASS
			НСН	RB25#0	21.25	18.05	33.00	PASS
				RB25#13	21.22	18.02	33.00	PASS
				RB25#25	21.34	18.14	33.00	PASS
				RB50#0	21.27	18.07	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	21.43	18.23	33.00	PASS
				RB1#25	21.22	18.02	33.00	PASS
				RB1#49	21.22	18.02	33.00	PASS
			LCH	RB25#0	20.11	16.91	33.00	PASS
				RB25#13	20.11	16.91	33.00	PASS
				RB25#25	20.10	16.9	33.00	PASS
				RB50#0	20.07	16.87	33.00	PASS
				RB1#0	21.51	18.31	33.00	PASS
				RB1#25	21.34	18.14	33.00	PASS
				RB1#49	21.43	18.23	33.00	PASS
BAND7	LTE/TM2	10M	МСН	RB25#0	20.12	16.92	33.00	PASS
				RB25#13	20.09	16.89	33.00	PASS
				RB25#25	20.15	16.95	33.00	PASS
				RB50#0	20.11	16.91	33.00	PASS
				RB1#0	21.46	18.26	33.00	PASS
				RB1#25	21.40	18.2	33.00	PASS
				RB1#49	21.58	18.38	33.00	PASS
			НСН	RB25#0	20.20	17	33.00	PASS
				RB25#13	20.19	16.99	33.00	PASS
				RB25#25	20.26	17.06	33.00	PASS
				RB50#0	20.17	16.97	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.24	18.04	33.00	PASS
				RB1#25	21.15	17.95	33.00	PASS
				RB1#49	21.26	18.06	33.00	PASS
			LCH	RB25#0	20.05	16.85	33.00	PASS
				RB25#13	20.05	16.85	33.00	PASS
				RB25#25	20.09	16.89	33.00	PASS
				RB50#0	20.05	16.85	33.00	PASS
				RB1#0	21.20	18	33.00	PASS
		10M		RB1#25	21.09	17.89	33.00	PASS
			МСН	RB1#49	21.27	18.07	33.00	PASS
BAND7	LTE/TM3			RB25#0	20.05	16.85	33.00	PASS
				RB25#13	20.10	16.9	33.00	PASS
				RB25#25	20.13	16.93	33.00	PASS
				RB50#0	20.12	16.92	33.00	PASS
				RB1#0	21.21	18.01	33.00	PASS
				RB1#25	21.10	17.9	33.00	PASS
				RB1#49	21.39	18.19	33.00	PASS
			НСН	RB25#0	20.14	16.94	33.00	PASS
				RB25#13	20.12	16.92	33.00	PASS
				RB25#25	20.16	16.96	33.00	PASS
				RB50#0	20.15	16.95	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	22.19	18.99	33.00	PASS
				RB1#38	22.22	19.02	33.00	PASS
				RB1#74	22.27	19.07	33.00	PASS
			LCH	RB36#0	21.22	18.02	33.00	PASS
				RB36#18	21.25	18.05	33.00	PASS
				RB36#39	21.33	18.13	33.00	PASS
				RB75#0	21.25	18.05	33.00	PASS
				RB1#0	22.13	18.93	33.00	PASS
	LTE/TM1	15M		RB1#38	22.22	19.02	33.00	PASS
			МСН	RB1#74	22.30	19.10	33.00	PASS
BAND7				RB36#0	21.20	18.00	33.00	PASS
				RB36#18	21.27	18.07	33.00	PASS
				RB36#39	21.31	18.11	33.00	PASS
				RB75#0	21.20	18.00	33.00	PASS
				RB1#0	22.21	19.01	33.00	PASS
				RB1#38	22.29	19.09	33.00	PASS
				RB1#74	22.36	19.16	33.00	PASS
			HCH	RB36#0	21.32	18.12	33.00	PASS
				RB36#18	21.30	18.10	33.00	PASS
				RB36#39	21.34	18.14	33.00	PASS
				RB75#0	21.30	18.1	33.00	PASS



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Test Band(LTE)	Test Mode	Test Bandwidth	Test channel	Test RB	Measured (dBm)	EIRP (dBm)	limit (dBm)	Verdict
				RB1#0	21.46	18.26	33.00	PASS
				RB1#38	21.40	18.2	33.00	PASS
				RB1#74	21.49	18.29	33.00	PASS
			LCH	RB36#0	20.17	16.97	33.00	PASS
				RB36#18	20.19	16.99	33.00	PASS
				RB36#39	20.26	17.06	33.00	PASS
				RB75#0	20.14	16.94	33.00	PASS
				RB1#0	21.39	18.19	33.00	PASS
	LTE/TM2	15M		RB1#38	21.52	18.32	33.00	PASS
			МСН	RB1#74	21.60	18.40	33.00	PASS
BAND7				RB36#0	20.18	16.98	33.00	PASS
				RB36#18	20.20	17.00	33.00	PASS
				RB36#39	20.26	17.06	33.00	PASS
				RB75#0	20.13	16.93	33.00	PASS
				RB1#0	21.56	18.36	33.00	PASS
				RB1#38	21.60	18.40	33.00	PASS
				RB1#74	21.57	18.37	33.00	PASS
			HCH	RB36#0	20.24	17.04	33.00	PASS
				RB36#18	20.22	17.02	33.00	PASS
				RB36#39	20.28	17.08	33.00	PASS
				RB75#0	20.20	17.00	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	21.15	17.95	33.00	PASS
				RB1#38	21.19	17.99	33.00	PASS
				RB1#74	21.23	18.03	33.00	PASS
			LCH	RB36#0	20.11	16.91	33.00	PASS
				RB36#18	20.10	16.9	33.00	PASS
				RB36#39	20.20	17.00	33.00	PASS
				RB75#0	20.13	16.93	33.00	PASS
				RB1#0	21.18	17.98	33.00	PASS
	LTE/TM3	15M		RB1#38	21.22	18.02	33.00	PASS
			МСН	RB1#74	21.27	18.07	33.00	PASS
BAND7				RB36#0	20.06	16.86	33.00	PASS
				RB36#18	20.10	16.9	33.00	PASS
				RB36#39	20.21	17.01	33.00	PASS
				RB75#0	20.10	16.9	33.00	PASS
				RB1#0	21.19	17.99	33.00	PASS
				RB1#38	21.21	18.01	33.00	PASS
				RB1#74	21.27	18.07	33.00	PASS
			HCH	RB36#0	20.19	16.99	33.00	PASS
				RB36#18	20.17	16.97	33.00	PASS
				RB36#39	20.20	17.00	33.00	PASS
				RB75#0	20.20	17.00	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	22.34	19.14	33.00	PASS
				RB1#50	21.99	18.79	33.00	PASS
				RB1#99	22.42	19.22	33.00	PASS
			LCH	RB50#0	21.22	18.02	33.00	PASS
				RB50#25	21.21	18.01	33.00	PASS
				RB50#50	21.25	18.05	33.00	PASS
				RB100#0	21.25	18.05	33.00	PASS
				RB1#0	22.30	19.1	33.00	PASS
		20M		RB1#50	21.95	18.75	33.00	PASS
			MCH	RB1#99	22.51	19.31	33.00	PASS
BAND7	LTE/TM1			RB50#0	21.22	18.02	33.00	PASS
				RB50#25	21.22	18.02	33.00	PASS
				RB50#50	21.33	18.13	33.00	PASS
				RB100#0	21.22	18.02	33.00	PASS
				RB1#0	22.45	19.25	33.00	PASS
				RB1#50	21.98	18.78	33.00	PASS
				RB1#99	22.50	19.3	33.00	PASS
			НСН	RB50#0	21.28	18.08	33.00	PASS
				RB50#25	21.21	18.01	33.00	PASS
				RB50#50	21.34	18.14	33.00	PASS
				RB100#0	21.36	18.16	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	21.54	18.34	33.00	PASS
				RB1#50	21.15	17.95	33.00	PASS
				RB1#99	21.74	18.54	33.00	PASS
			LCH	RB50#0	20.15	16.95	33.00	PASS
				RB50#25	20.12	16.92	33.00	PASS
				RB50#50	20.20	17	33.00	PASS
				RB100#0	20.20	17	33.00	PASS
				RB1#0	21.59	18.39	33.00	PASS
				RB1#50	21.15	17.95	33.00	PASS
				RB1#99	21.71	18.51	33.00	PASS PASS PASS PASS PASS PASS PASS
BAND7	LTE/TM2	20M	МСН	RB50#0	20.15	16.95	33.00	
				RB50#25	20.15	16.95	33.00	PASS
				RB50#50	20.25	17.05	33.00	PASS
				RB100#0	20.14	16.94	33.00	PASS
				RB1#0	21.67	18.47	33.00	PASS
				RB1#50	21.19	17.99	33.00	PASS
				RB1#99	21.76	18.56	33.00	PASS
			НСН	RB50#0	20.24	17.04	33.00	PASS
			16.96	33.00	PASS			
				RB50#50	20.22	17.02	33.00	PASS
				RB100#0	20.24	17.04	33.00	PASS



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Test	Test	Test	Test		Page: Measured	14 of 8 EIRP	1	
Band(LTE)	Mode	Bandwidth	channel	Test RB	(dBm)	(dBm)	limit (dBm)	Verdict
				RB1#0	21.45	18.25	33.00	PASS
				RB1#50	21.04	17.84	33.00	PASS
				RB1#99	21.49	18.29	33.00	PASS
			LCH	RB50#0	20.15	16.95	33.00	PASS
				RB50#25	20.14	16.94	33.00	PASS
				RB50#50	20.21	17.01	33.00	PASS
				RB100#0	20.19	16.99	33.00	PASS
				RB1#0	21.43	18.23	33.00	PASS
				RB1#50	21.14	17.94	33.00	PASS
				RB1#99	21.52	18.32	33.00	PASS
BAND7	LTE/TM3	20M	MCH	RB50#0	20.11	16.91	33.00	PASS
				RB50#25	20.12	16.92	33.00	PASS
				RB50#50	20.25	17.05	33.00	PASS
				RB100#0	20.17	16.97	33.00	PASS
				RB1#0	21.45	18.25	33.00	PASS
				RB1#50	21.10	17.90	33.00	PASS PASS PASS PASS PASS PASS PASS PASS
			нсн	RB1#99	21.58	18.38	33.00	PASS
				RB50#0	20.25	17.05	33.00	PASS
				RB50#25	20.13	16.93	33.00	PASS
				RB50#50	20.22	17.02	33.00	PASS
				RB100#0	20.25	17.05	33.00	PASS

Note:

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

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

b: SGP=Signal Generator Level

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

Detector: RMS



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2 Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
		LCH	5.22	13	PASS
	TM1/20M	MCH	5.65	13	PASS
		НСН	5.22	13	PASS
Band 7	TM2/20M	LCH	5.86	13	PASS
		MCH	6.26	13	PASS
		HCH	5.83	13	PASS
		LCH	5.97	13	PASS
	TM3/20M	MCH	6.67	13	PASS
		НСН	6.09	13	PASS

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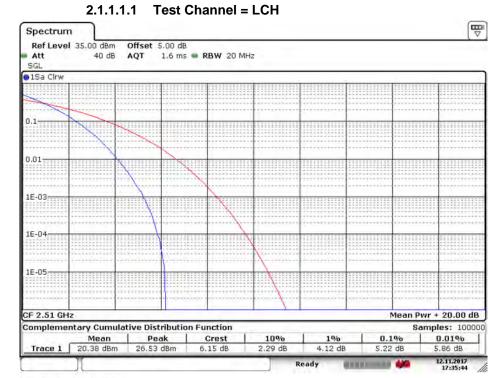
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Part II - Test Plots

2.1 For LTE

2.1.1 Test Band = LTE band7

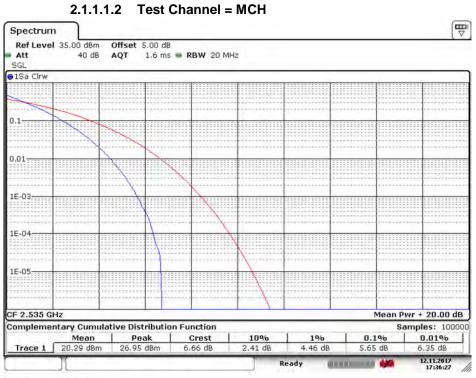




Date: 12.NOV.2017 17:35:45

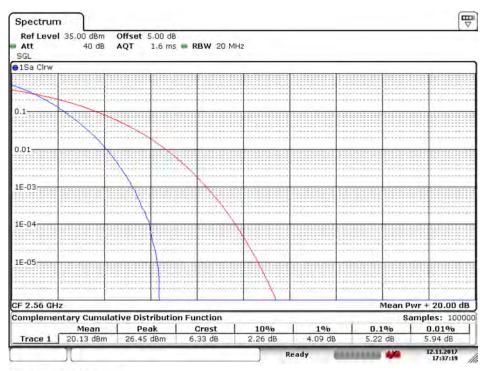


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Date: 12.NOV.2017 17:36:28



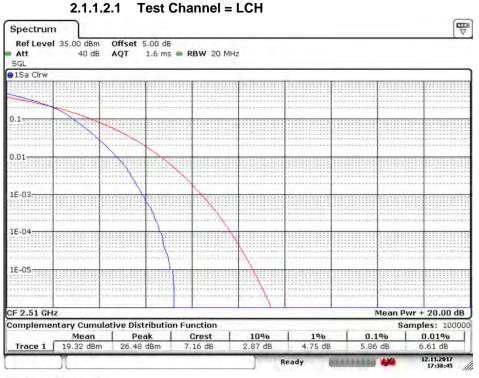


Date: 12.NOV.2017 17:37:20

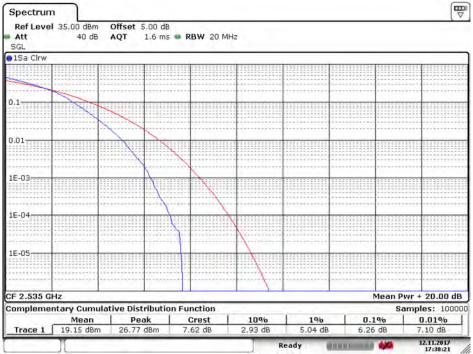


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2.1.1.2 Test Mode = LTE/TM2.Bandwidth=20MHz



Date: 12.NOV.2017 17:38:46

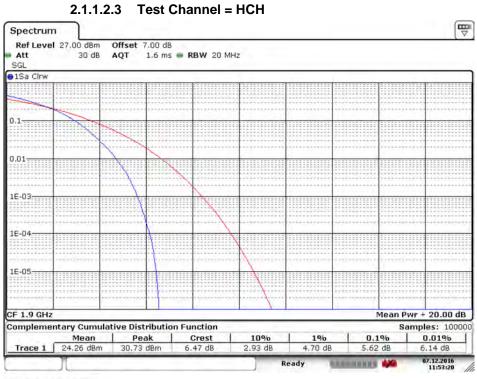


2.1.1.2.2 Test Channel = MCH

Date: 12.NOV.2017 17:38:21

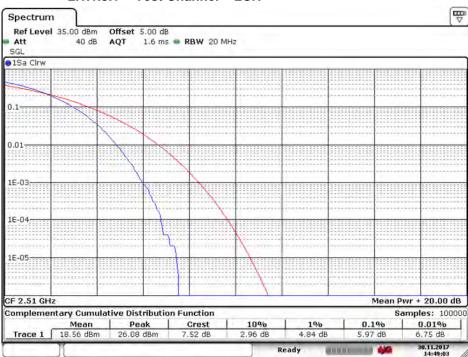


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Date: 7.DEC.2016 11:53:20

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

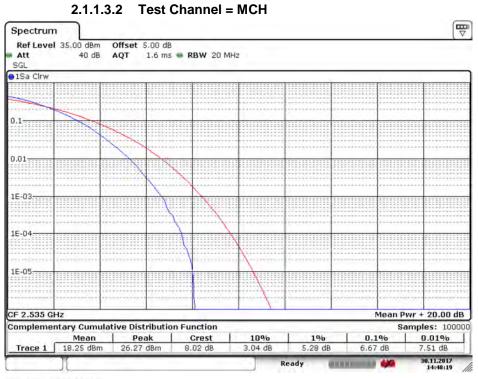


2.1.1.3.1 Test Channel = LCH

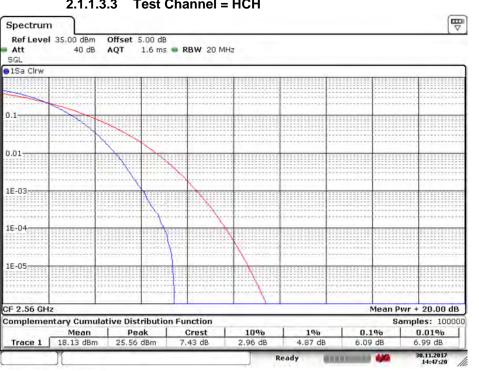
Date: 30.NOV.2017 14:49:03



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Date: 30.NOV.2017 14:48:19



2.1.1.3.3 Test Channel = HCH

Date: 30.NOV.2017 14:47:21

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3 Modulation Characteristics

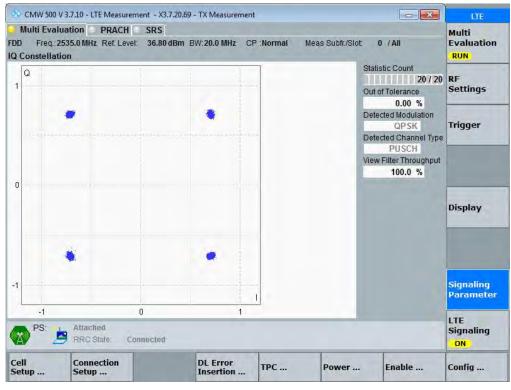
Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = LTE band7

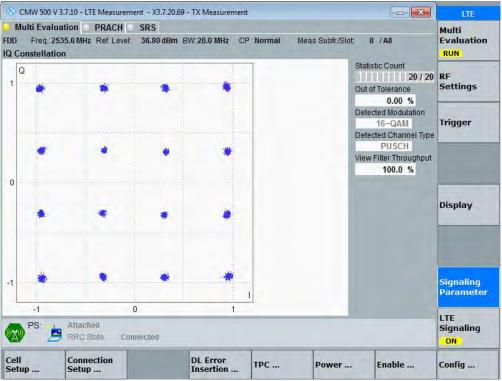
3.1.1.1 Test Mode = LTE /TM1 20MHz

3.1.1.1.1 Test Channel = MCH





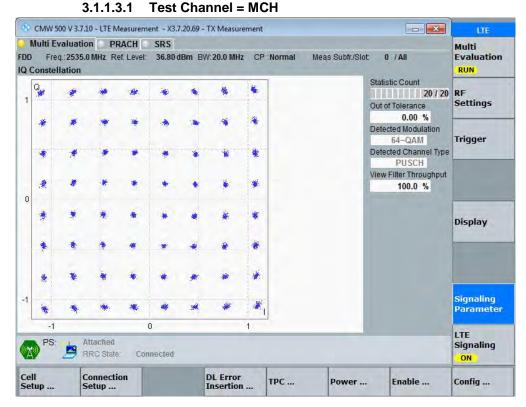
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3.1.1.2 Test Mode = LTE /TM2 20MHz

3.1.1.2.1 Test Channel = MCH

3.1.1.3 Test Mode = LTE /TM3 20MHz





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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	4.89	PASS
	TM1/ 5MHz	MCH	4.49	4.90	PASS
		HCH	4.49	4.86	PASS
		LCH	4.48	4.90	PASS
	TM2/ 5MHz	MCH	4.49	4.90	PASS
		HCH	4.49	4.91	PASS
		LCH	4.48	4.89	PASS
	TM3/ 5MHz	MCH	4.48	4.87	PASS
		HCH	4.48	4.87	PASS
		LCH	8.93	9.75	PASS
	TM1/10MHz	MCH	8.95	9.79	PASS
		HCH	8.93	9.77	PASS
		LCH	8.95	9.73	PASS
	TM2/ 10MHz	MCH	8.95	9.73	PASS
		HCH	8.93	9.71	PASS
	TM3/ 10MHz	LCH	8.93	9.69	PASS
		MCH	8.95	9.73	PASS
David 7		HCH	8.93	9.83	PASS
Band 7		LCH	13.49	14.99	PASS
	TM1/ 15MHz	MCH	13.55	15.11	PASS
		HCH	13.55	15.02	PASS
		LCH	13.52	15.08	PASS
	TM2/ 15MHz	MCH	13.52	15.11	PASS
		HCH	13.55	15.11	PASS
	TM3/ 15MHz	LCH	13.49	14.80	PASS
		MCH	13.52	14.93	PASS
		HCH	13.49	14.84	PASS
	TM1/20MHz	LCH	17.94	19.66	PASS
		MCH	17.98	19.82	PASS
		HCH	17.98	19.66	PASS
		LCH	17.90	19.74	PASS
	TM2/ 20MHz	MCH	17.98	19.78	PASS
		HCH	17.98	19.62	PASS
		LCH	17.90	19.54	PASS
	TM3/ 20MHz	MCH	17.98	19.70	PASS
		HCH	17.94	19.58	PASS



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4.1 For LTE

4.1.1 Test Band = LTE band7

4.1.1.1 Test Mode = LTE/TM1 5MHz

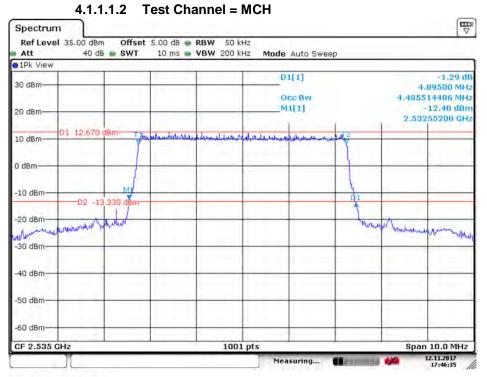
4.1.1.1.1 Test Channel = LCH

1Pk View	1								
30 dBm					0	1[1] cc Bw 1[1]		-0.77 d 4.88500 MF 4.485514486 MF -12.57 dB 2.50005200 GF	
10 dBm	D1 13,400	dBm Th	الديمين السط مل مع	address relations	un antain	were eventable	WHE?	-	
0 dBm					_	-			
-10 dBm—	D2 -1;	2.600 dBm-					4		
-20 dBm					-			n.	
ab'dBm	wenter	Makalana						Mun	with
-40 dBm		-				-			-
-50 dBm—		-	-						
-60 dBm					-				
CF 2.5025	GHZ	<u> </u>	-	1001	ots			Snar	10.0 MHz

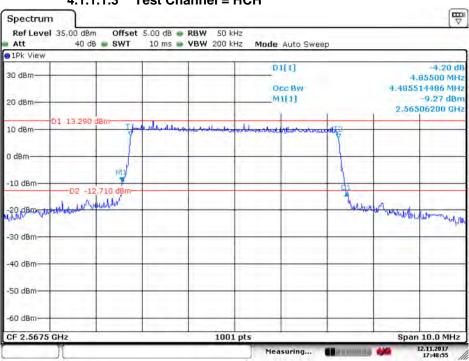
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Date: 12.NOV.2017 17:46:35

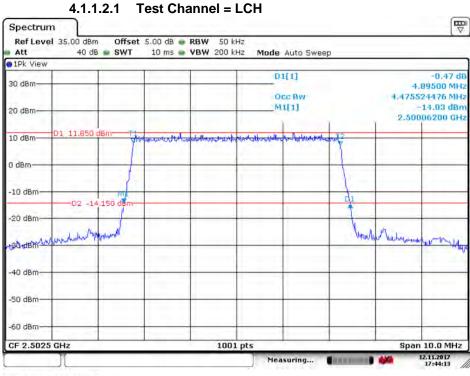


4.1.1.1.3 Test Channel = HCH

Date: 12.NOV.2017 17:48:55



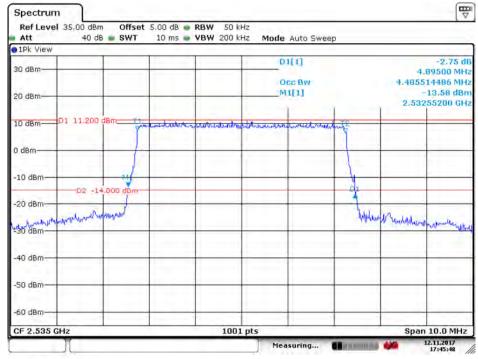
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4.1.1.2 Test Mode = LTE/TM2 5MHz

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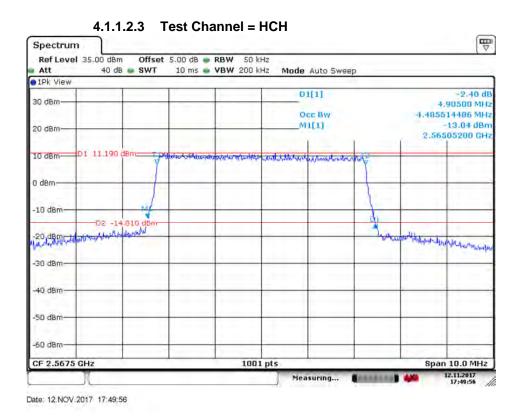




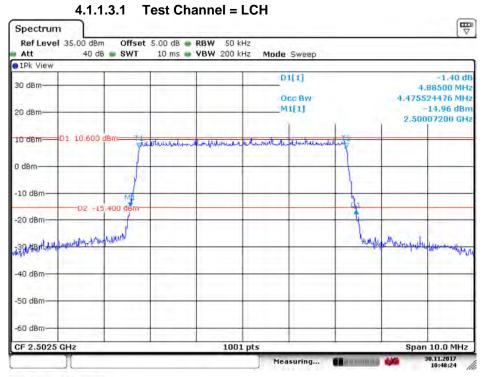
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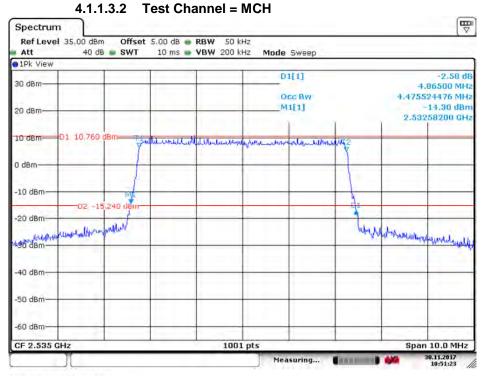
4.1.1.3 Test Mode = LTE/TM3 5MHz



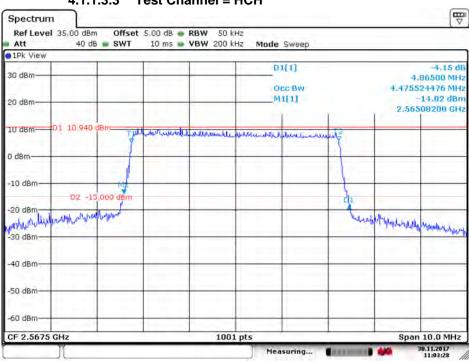
Date: 30.NOV.2017 10:48:25



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Date: 30.NOV.2017 10:51:23

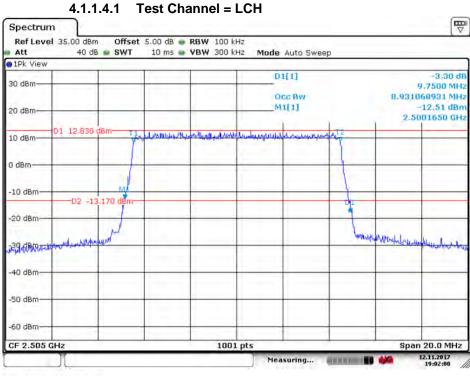


4.1.1.3.3 Test Channel = HCH

Date: 30.NOV.2017 11:03:28



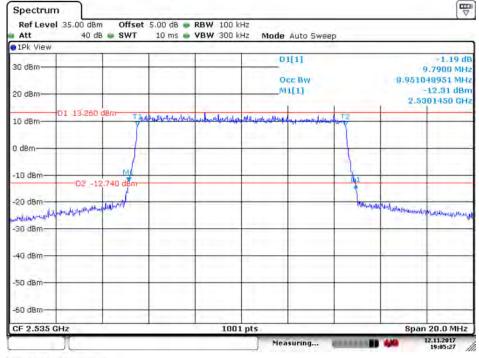
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4.1.1.4 Test Mode = LTE/TM1 10MHz

Date: 12.NOV.2017 19:02:00

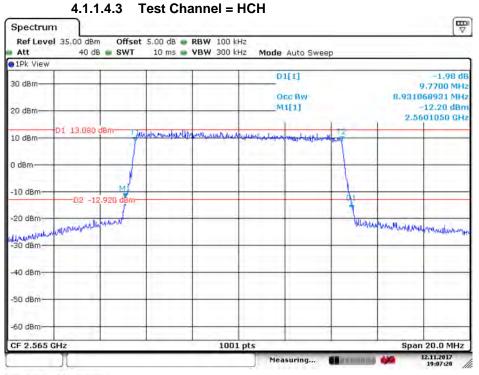




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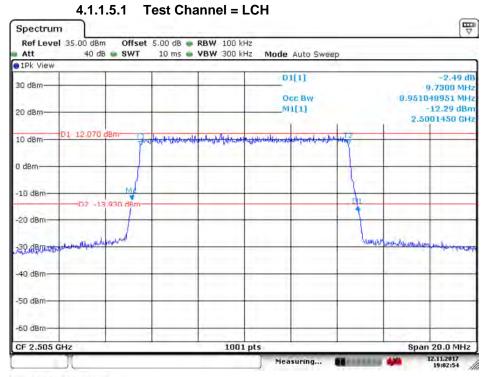


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Date: 12.NOV.2017 19:07:21

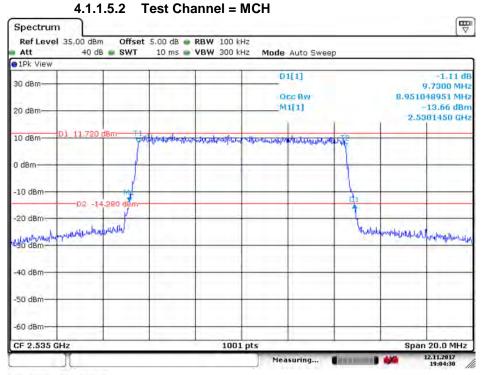
4.1.1.5 Test Mode = LTE/TM2 10MHz



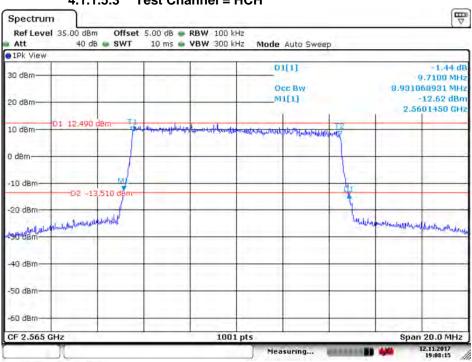
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Date: 12.NOV.2017 19:04:31

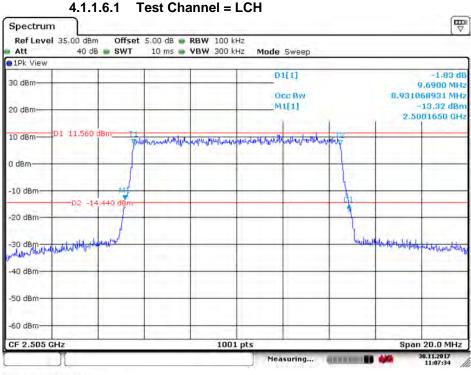


4.1.1.5.3 Test Channel = HCH

Date: 12.NOV.2017 19:08:15



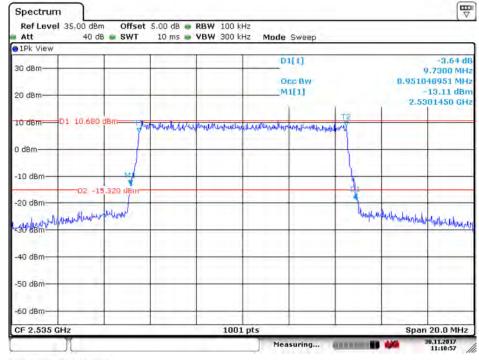
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4.1.1.6 Test Mode = LTE/TM3 10MHz

Date: 30.NOV.2017 11:07:35

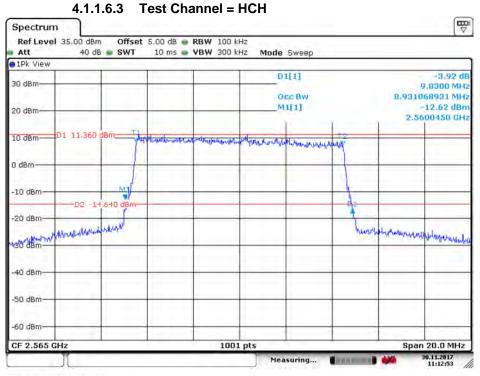




Date: 30.NOV.2017 11:10:58

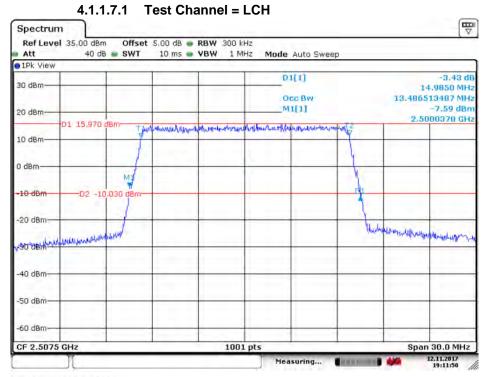


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Date: 30.NOV 2017 11:12:53

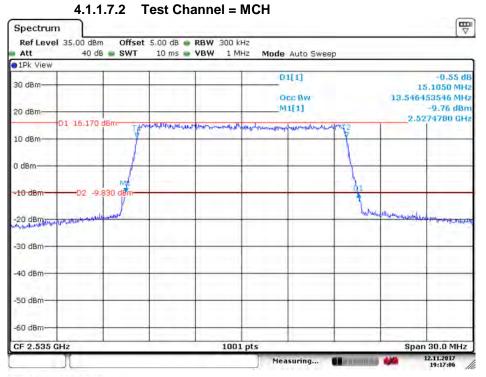
4.1.1.7 Test Mode = LTE/TM1 15MHz



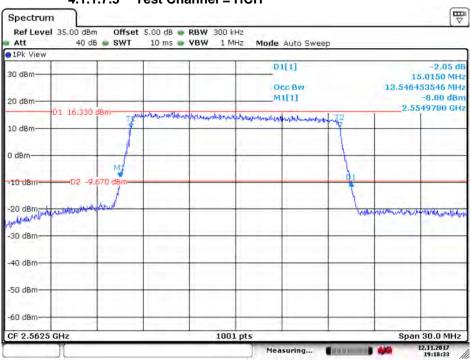
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Date: 12.NOV.2017 19:17:06

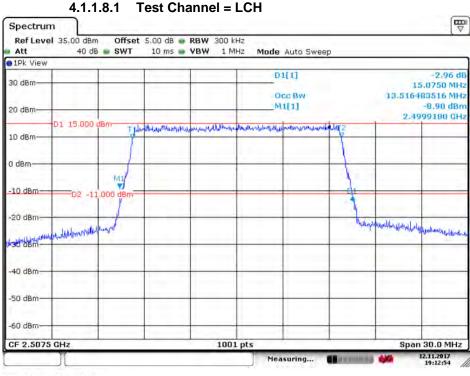


4.1.1.7.3 Test Channel = HCH

Date: 12.NOV.2017 19:18:34



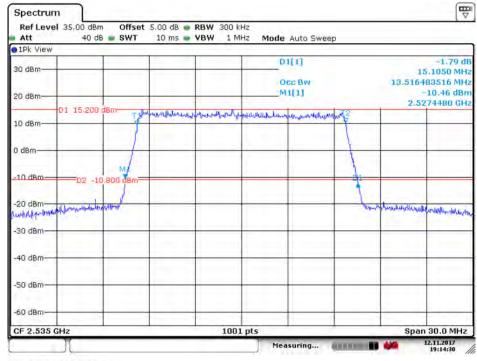
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4.1.1.8 Test Mode = LTE/TM2 15MHz

Date: 12.NOV.2017 19:12:54

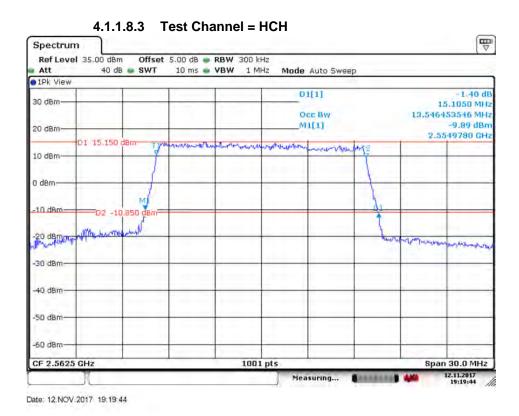




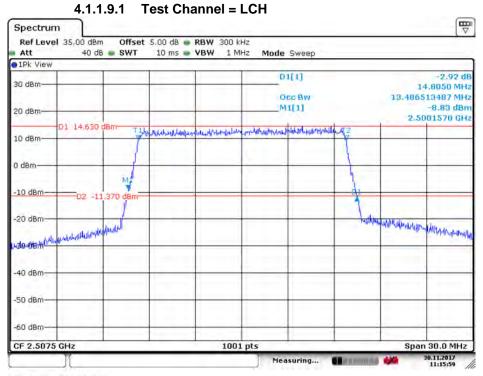
Date: 12.NOV.2017 19:14:31



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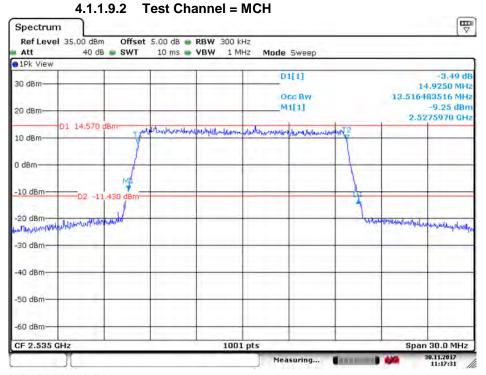
4.1.1.9 Test Mode = LTE/TM3 15MHz



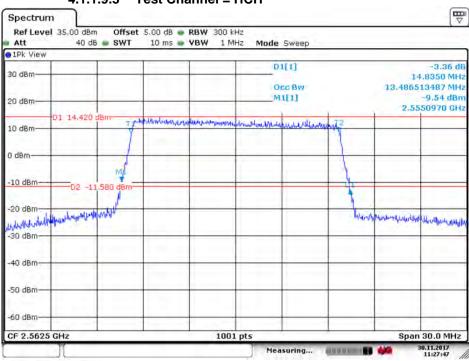
Date: 30.NOV.2017 11:15:59



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Date: 30.NOV 2017 11:17:31



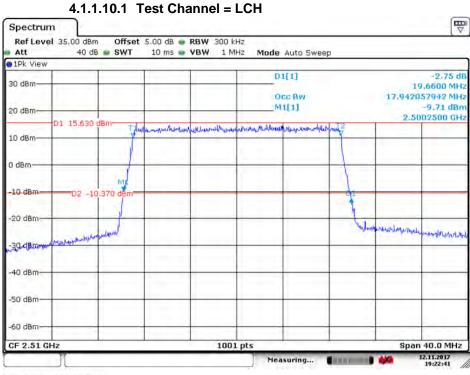
4.1.1.9.3 Test Channel = HCH

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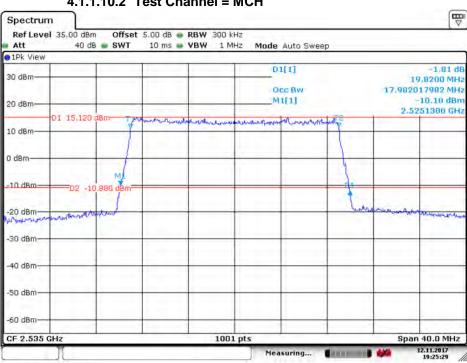


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4.1.1.10 Test Mode = LTE/TM1 20MHz

Date: 12.NOV.2017 19:22:41



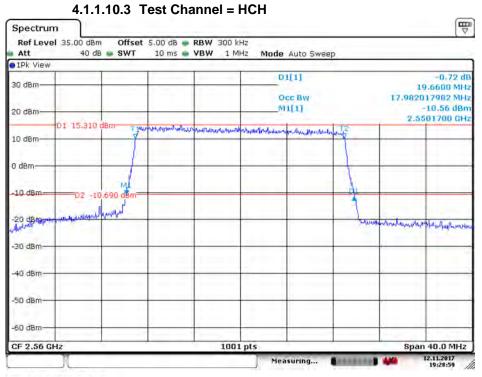
4.1.1.10.2 Test Channel = MCH

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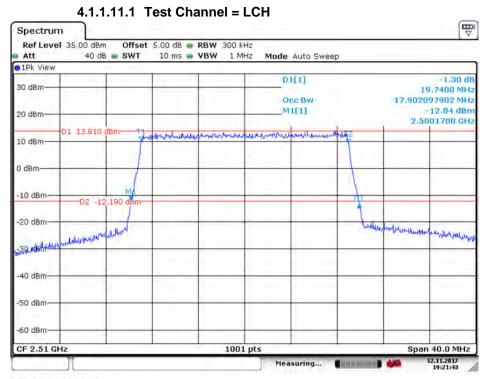


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Date: 12.NOV.2017 19:29:00

4.1.1.11 Test Mode = LTE/TM2 20MHz

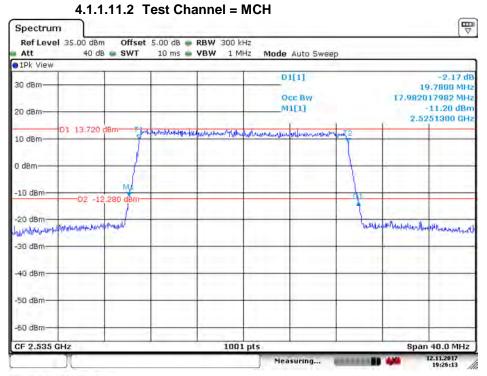


Date: 12.NOV.2017 19:21:43

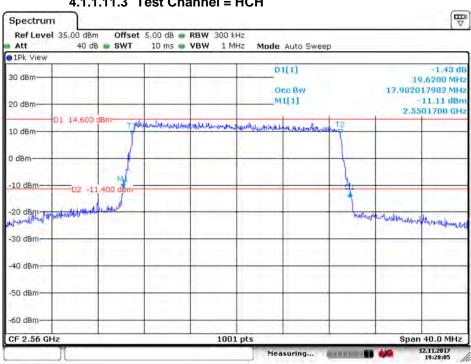
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Date: 12.NOV.2017 19:26:14



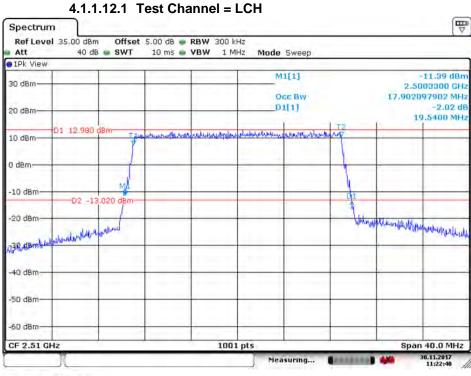
4.1.1.11.3 Test Channel = HCH

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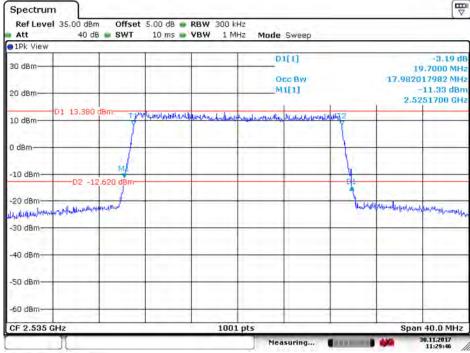
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4.1.1.12 Test Mode = LTE/TM3 20MHz

Date: 30.NOV.2017 11:22:40



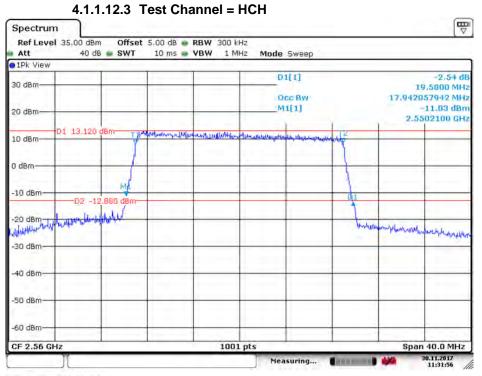


Date: 30.NOV.2017 11:29:46

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Date: 30.NOV 2017 11:31:56

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5 Band Edges Compliance

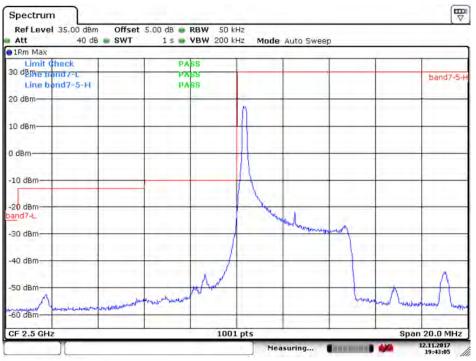
Part I –

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



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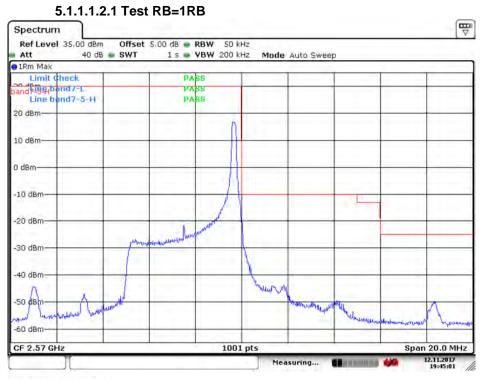


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B Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 50 kHz Att 40 dB 🔳 SWT 1 s 🖝 VBW 200 kHz Mode Auto Sweep 01Rm Max PASS Limit Check 30 dBme band /-1 PASS band7+5 Line band7-5-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm and7-L -30 dBm -40 dBm -S0 dBm -60 dBm Span 20.0 MHz CF 2.5 GHz 1001 pts 12.11.2017 19:42:50 Measuring... ALC: UNKNOWN OF

Date: 12.NOV.2017 19:42:51

5.1.1.1.2 Test Channel = HCH



Date: 12.NOV.2017 19:45:01

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5.1.1.1.1.2 Test RB=25RB



Report No.: SZEM171001122301 Page: 45 of 86

Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 50 kHz 40 dB . SWT 1 s . VBW 200 kHz Att Mode Auto Sweep 1Rm Max Limit Check PASS and 好 明 异 bond /-L PASS Line band7-5-H PASS 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm Uposal upp -50 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 20.0 MHz 12.11.2017 19:45:15 Measuring... Contra second

Date: 12.NOV.2017 19:45:15

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: 12.NOV.2017 19:43:18

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5.1.1.1.2.2 Test RB=25RB

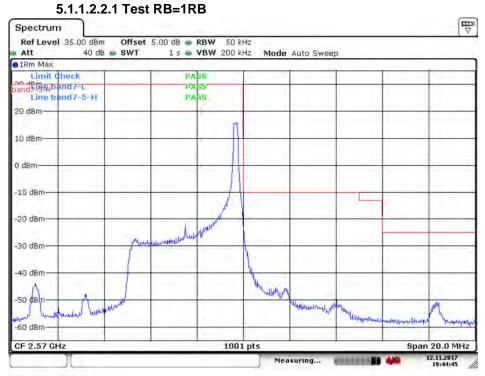


Report No.: SZEM171001122301 Page: 46 of 86

B 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 01Rm Max PASS Limit Check 30 dBme bond /-t PASS band7-5 Line band7-5-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm and7-L -30 dBm Nelson W. Ko Listall Harris -40 dBmhundrich -S0 dBm -60 dBm-Span 20.0 MHz CF 2.5 GHz 1001 pts 12.11.2017 19:43:35 Measuring... Carne annual Carl

Date: 12.NOV.2017 19:43:35

5.1.1.2.2 Test Channel = HCH



Date: 12.NOV.2017 19:44:46

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5.1.1.2.1.2 Test RB=25RB



Report No.: SZEM171001122301 Page: 47 of 86

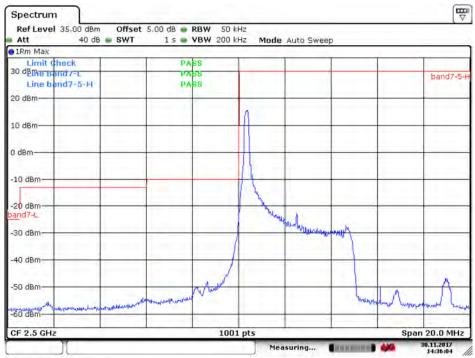
₽ Spectrum Ref Level 35.00 dBm Offset 5.00 dB - RBW 50 kHz Att 40 dB 📟 SWT 1 s 💩 VBW 200 kHz Mode Auto Sweep o IRm Max Limit Check PASS Line band7-5-H PASS PABS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm 100 40 dBm L.M Useria -SO dBm -60 dBm-1001 pts CF 2.57 GHz Span 20.0 MHz 12.11.2017 19:44:32 Measuring... Conservation (

5.1.1.2.2.2 Test RB=25RB

Date: 12.NOV.2017 19:44:32

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



Date: 30.NOV 2017 14:36:04

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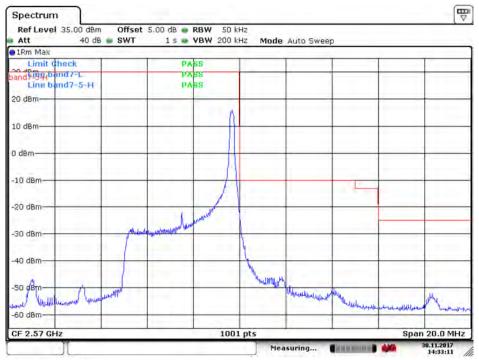
Report No.: SZEM171001122301 Page: 48 of 86

B 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 01Rm Max PASS Limit Check 30 dBme band /-1 PASS band7-5 Line band7-5-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm and7-L -30 dBm A.L.A -40 dBm The New July -S0 dBm -60 dBm-CF 2.5 GHz 1001 pts Span 20.0 MHz 30.11.2017 14:35:39 Measuring... ALC: UNKNOWN OF

Date: 30.NOV 2017 14:35:39

5.1.1.3.1 Test Channel = HCH

5.1.1.3.1.1 Test RB=1RB



Date: 30.NOV.2017 14:33:11

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5.1.1.3.1.2 Test RB=25RB



Report No.: SZEM171001122301 Page: 49 of 86

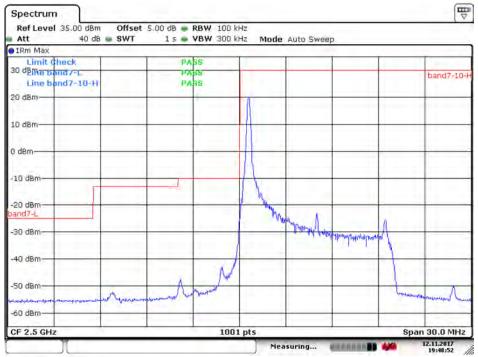
Spectrum Ref Level 35,00 dBm Offset S.00 dB . RBW 50 kHz Att 40 dB 💼 SWT 1 s 🖝 VBW 200 kHz Mode Auto Sweep 01Rm Max Limit Check PASS Line band7-5-H PASS PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm--30 dBm werenalised 40 dBm 50 dBm 444 -60 dBm-CF 2.57 GHz 1001 pts Span 20.0 MHz 30.11.2017 14:34:19 Measuring... OR JENN

5.1.1.3.1.2 Test RB=25RB

Date: 30.NOV.2017 14:34:19

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: 12.NOV.2017 19:48:52

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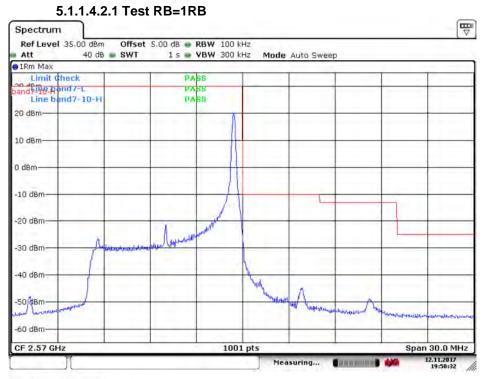


Report No.: SZEM171001122301 Page: 50 of 86

B Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 100 kHz Att 40 dB 🔳 SWT 1 s 🖝 VBW 300 kHz Mode Auto Sweep 01Rm Max PASS Limit Check 30 dBme band /-1 PASS band7-10 Line band7-10-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -SO dBm--60 dBm CF 2.5 GHz 1001 pts Span 30.0 MHz 12.11.2017 19:49:04 Measuring... **GR**ammuna

Date: 12.NOV.2017 19:49:04

5.1.1.4.2 Test Channel = HCH



Date: 12.NOV.2017 19:50:33

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5.1.1.4.1.2 Test RB=50RB



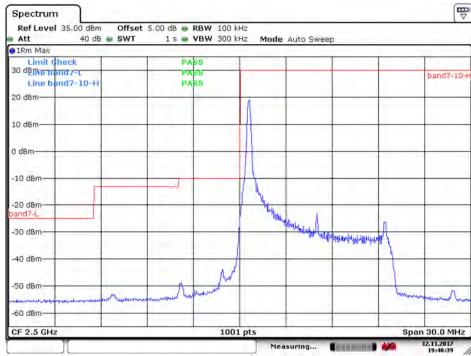
Report No.: SZEM171001122301 Page: 51 of 86

Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 100 kHz 40 dB . SWT 1 s . VBW 300 kHz Att Mode Auto Sweep 1Rm Max Limit Check PASS and FIR-Rond /-L Line bond 7-10-H PASS PASS 20 dBm 10 dBm-0 dBm--10 dBm -20 dBm -30 dBm--40 dBm -S0 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 30.0 MHz 12.11.2017 19:50:12 Measuring... Contraction of Contraction

Date: 12.NOV.2017 19:50:13

5.1.1.5 Test Mode = LTE/TM2 10MHz

5.1.1.5.1 Test Channel = LCH



5.1.1.5.1.1 Test RB=1RB

Date: 12.NOV.2017 19:48:39

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5.1.1.4.2.2 Test RB=50RB

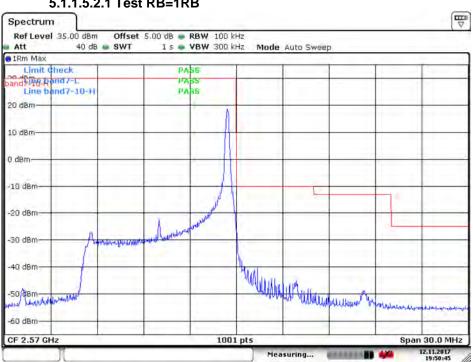


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B Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 100 kHz Att 40 dB 🔳 SWT 1 s 🖝 VBW 300 kHz Mode Auto Sweep 01Rm Max PASS Limit Check 30 dBme band /-1 PASS band7-10 Line band7-10-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -SO dBm--60 dBm CF 2.5 GHz 1001 pts Span 30.0 MHz 12.11.2017 19:49:04 Measuring... **GR**ammuna

Date: 12.NOV.2017 19:49:04

5.1.1.5.2 Test Channel = HCH



5.1.1.5.2.1 Test RB=1RB

5.1.1.5.1.2 Test RB=50RB

Date: 12.NOV.2017 19:50:46

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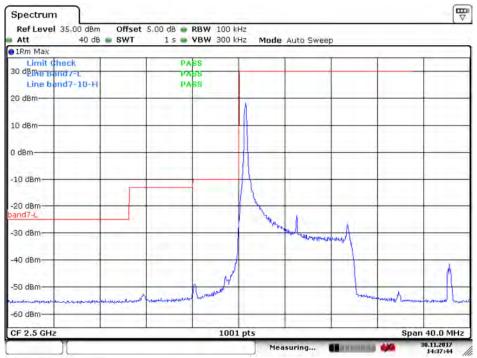
₽ Spectrum Ref Level 35.00 dBm Offset 5.00 dB - RBW 100 kHz Att 40 dB 📟 SWT 1 s 💩 VBW 300 kHz Mode Auto Sweep 01Rm Max Limit Check PASS and FUIG-Rond7-L Line band7-10-H PASS PABS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm TYP- MENTHEN 14 -40 dBm -SO dBm -60 dBm-1001 pts CF 2.57 GHz Span 30.0 MHz 12.11.2017 19:51:03 Measuring... MARRIES NO.

5.1.1.5.2.2 Test RB=50RB

Date: 12.NOV.2017 19:51.04

5.1.1.6 Test Mode = LTE/TM3 10MHz 5.1.1.6.1 Test Channel = LCH

5.1.1.6.1.1 Test RB=1RB



Date: 30.NOV.2017 14:37:44

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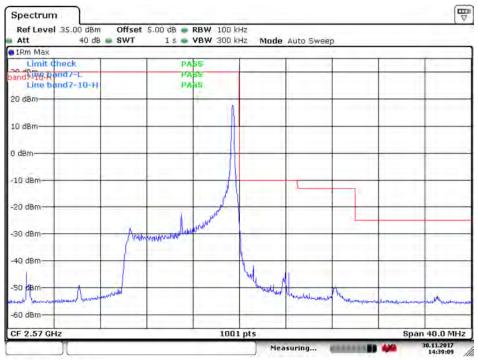
Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 100 kHz Att 40 dB 🔳 SWT 1 s 🖝 VBW 300 kHz Mode Auto Sweep 01Rm Max PASS Limit Check 30 dBme band /-1 PASS Line band7-10-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -S0 dBm -60 dBm-CF 2.5 GHz 1001 pts Span 40.0 MHz 30.11.2017 14:38:07 Measuring... **Gil**ammuna

5.1.1.6.1.2 Test RB=50RB

Date: 30.NOV 2017 14:38:07

5.1.1.6.1 Test Channel = HCH

5.1.1.6.1.1 Test RB=1RB



Date: 30.NOV.2017 14:39:09

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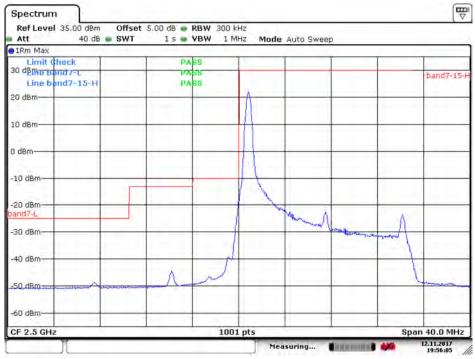
Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 100 kHz Att 40 dB 💼 SWT 1 s 🖝 VBW 300 kHz Mode Auto Sweep 01Rm Max Limit Check PASS and FIB-Rond 7-L Line bond 7-10-H PASS PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm--30 dBm 40 dBm S6 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 40.0 MHz 30.11.2017 14:38:48 Measuring... C

5.1.1.6.1.2 Test RB=50RB

Date: 30.NOV.2017 14:38:49

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: 12.NOV.2017 19:56:05

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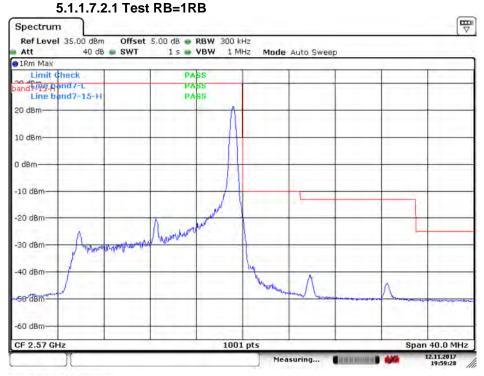


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B Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 300 kHz Att 40 dB 💼 SWT 1 s . VBW 1 MHz Mode Auto Sweep 01Rm Max PASS Limit Check 30 dBme band /-D PASS and7-15 Line band7-15-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm-SO dBm -60 dBm-Span 40.0 MHz CF 2.5 GHz 1001 pts 12.11.2017 19:56:43 Measuring... **Giller namma**

Date: 12.NOV.2017 19:56:44

5.1.1.7.2 Test Channel = HCH



Date: 12.NOV.2017 19:59:28

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5.1.1.7.1.2 Test RB=75RB



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7 Spectrum Ref Level 35,00 dBm Offset 5.00 dB . RBW 300 kHz 40 dB . SWT Att 1 s VBW 1 MHz Mode Auto Sweep 1Rm Max Limit Check PASS and FIG-Rond /-L PASS Line band7-15-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -S0 dBm -60 dBm-CF 2.57 GHz 1001 pts Span 40.0 MHz 12.11.2017 19:59:12 Measuring... Concernant and

Date: 12.NOV.2017 19:59:13

5.1.1.8 Test Mode = LTE/TM2 15MHz

5.1.1.8.1 Test Channel = LCH

THE R 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 PABS 30 dBMe band7-L Line band7-15-H PASS PABS 20 dBm-10 dBm 0 dBm--10 dBm -20 dBm 14 Munne A -30 dBm And Alexander and a state of the state of th -40 dBm 50 dBm--60 dBm CF 2.5 GHz 1001 pts Span 40.0 MHz 12.11.2017 Measuring... HERRARIA DE 440

5.1.1.8.1.1 Test RB=1RB

Date: 12.NOV.2017 19:55:48

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5.1.1.7.2.2 Test RB=75RB

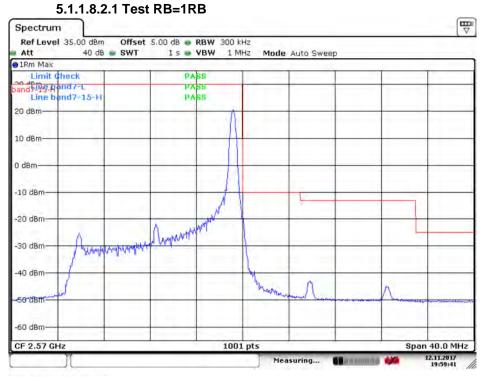


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The second secon Spectrum Ref Level 35.00 dBm Offset 5.00 dB 💣 RBW 300 kHz Att 40 dB 🖷 SWT 1 s 🕳 VBW 1 MHz Mode Auto Sweep • 1Rm Max Limit Check PABS 30 dBMe band /-L PASS and7-15 Line band7-15-H PABS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm 50.dBm -60 dBm-1001 pts Span 40.0 MHz CF 2.5 GHz 12.11.2017 19:55:17 Measuring... Conservation (

Date: 12.NOV.2017 19:55:17

5.1.1.8.2 Test Channel = HCH



Date: 12.NOV.2017 19:59:41

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5.1.1.8.1.2 Test RB=75RB



Report No.: SZEM171001122301 Page: 59 of 86

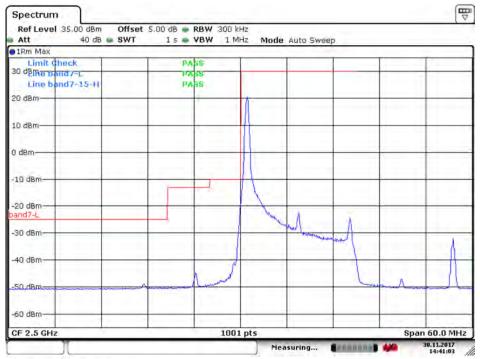
B Spectrum Ref Level 35,00 dBm Offset 5.00 dB 💿 RBW 300 kHz Att 40 dB 🔳 SWT 1 s 🖝 VBW 1 MHz Mode Auto Sweep 01Rm Max Limit Check PASS and 19 Pand 7-L Line band 7-15-H PASS PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm--30 dBm -40 dBm -SO dBm -60 dBm-CF 2.57 GHz 1001 pts Span 40.0 MHz 12.11.2017 19:59:55 Measuring... **GR**ammana

5.1.1.8.2.2 Test RB=75RB

Date: 12.NOV.2017 19:59:55

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



Date: 30.NOV.2017 14:41:04

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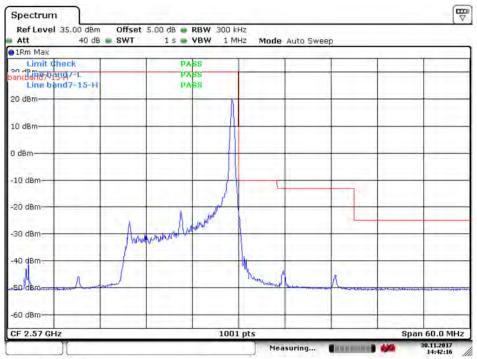
Report No.: SZEM171001122301 Page: 60 of 86

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 01Rm Max PASS Limit Check 30 dBme band /-1 PASS Line band7-15-H PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm -30 dBm -40 dBm -50.dBm----60 dBm-Span 60.0 MHz CF 2.5 GHz 1001 pts 30.11.2017 14:41:22 Measuring... Car on an annual fin and

Date: 30.NOV.2017 14:41:23

5.1.1.9.1 Test Channel = HCH

5.1.1.9.1.1 Test RB=1RB



Date: 30.NOV.2017 14:42:16

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5.1.1.9.1.2 Test RB=75RB



Report No.: SZEM171001122301 Page: 61 of 86

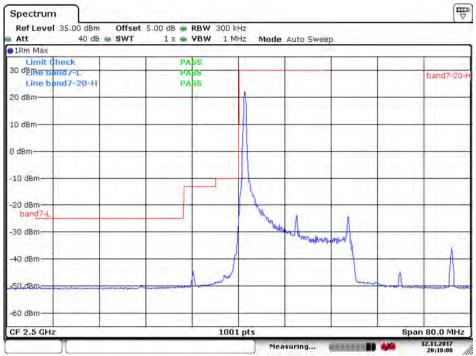
Spectrum Ref Level 35,00 dBm Offset S.00 dB 💿 RBW 300 kHz Att 40 dB 💼 SWT 1 s 🖝 VBW 1 MHz Mode Auto Sweep 01Rm Max Limit Check and Approximation Dankbahlt/2010/17-L Line band7-15-H PASS PASS PASS 20 dBm 10 dBm 0 dBm--10 dBm -20 dBm--30 dBm -40 dBm--S0 dBm -60 dBm-Span 60.0 MHz CF 2.57 GHz 1001 pts 30.11.2017 14:41:58 Measuring... ALC: UNKNOWN

5.1.1.9.1.2 Test RB=75RB

Date: 30.NOV.2017 14:41:58

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: 12.NOV.2017 20:10:01

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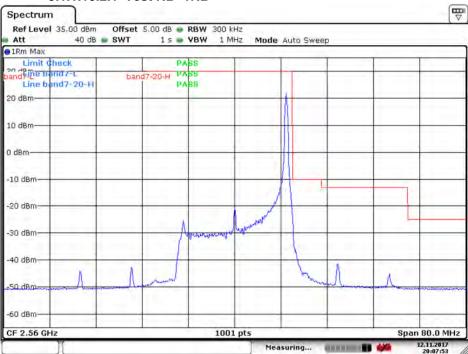
Report No.: SZEM171001122301 Page: 62 of 86



5.1.1.10.1.2 Test RB=100RB

Date: 12.NOV.2017 20:09:31

5.1.1.10.2 Test Channel = HCH



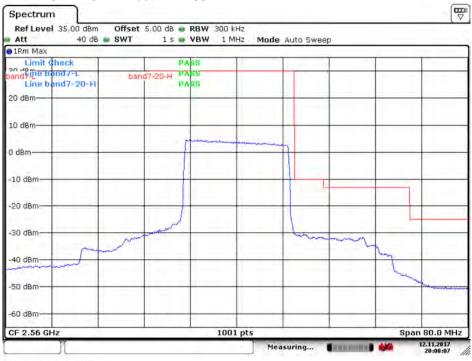
5.1.1.10.2.1 Test RB=1RB

Date: 12.NOV.2017 20:07:53

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Report No.: SZEM171001122301 63 of 86 Page:

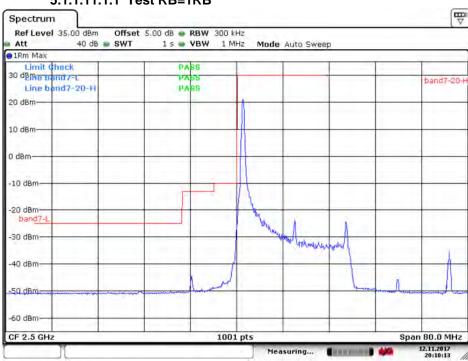


5.1.1.10.2.2 Test RB=100RB

Date: 12.NOV.2017 20:08:07

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

Date: 12.NOV.2017 20:10:13

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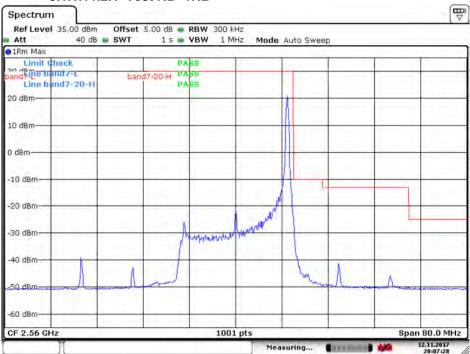
Report No.: SZEM171001122301 Page: 64 of 86



5.1.1.11.1.2 Test RB=100RB

Date: 12.NOV.2017 20:10:27

5.1.1.11.2 Test Channel = HCH



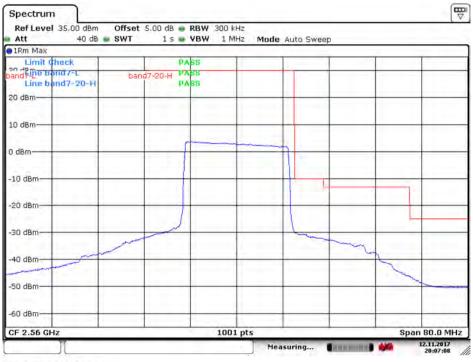
5.1.1.11.2.1 Test RB=1RB

Date: 12.NOV.2017 20:07:29

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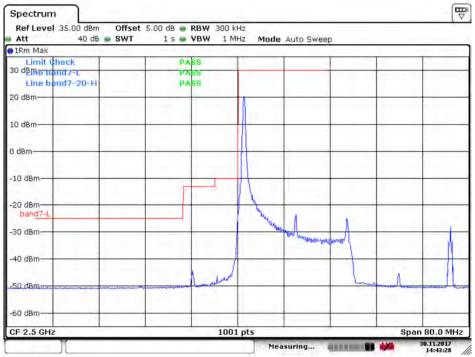


5.1.1.11.2.2 Test RB=100RB

Date: 12.NOV.2017 20:07:08

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: 30.NOV.2017 14:43:28

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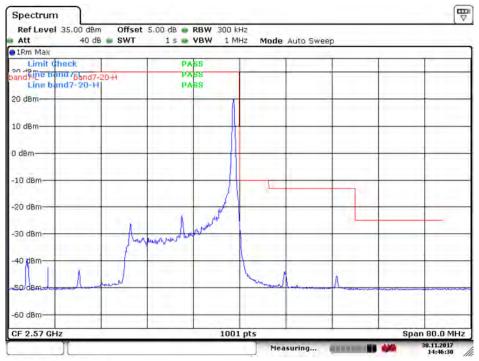


5.1.1.12.1.2 Test RB=100RB

Date: 30.NOV.2017 14:43:49

5.1.1.12.1 Test Channel = HCH

5.1.1.12.1.1 Test RB=1RB



Date: 30.NOV.2017 14:46:30

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5.1.1.12.1.2 Test RB=100RB

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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 band7

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

6.1.1.1.1 Test Channel = LCH The second secon Spectrum Ref Level 25.00 dBm Offset 5.00 dB . RBW 100 kHz 30 dB 🖝 SWT 1.1 ms - VBW 300 kHz Att Mode Auto FFT 1Pk Max M1[1] -51.21 dBo 20 dBm 810.3500 MH 10 dBm 0 dBm -10 dBm -20 dBm D1 -25.000 dBm -30 dBm 40 dBm -50 dBm -70 dBm Start 30.0 MHz 20001 pts Stop 1.0 GHz 13.11.2017 Measuring... Circum III

Date: 13.NOV.2017 09:37:55

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									R	eport No	.: SZEM171001122301
										age:	69 of 86
Spectrum						2					
Ref Level			Offset SWT		RBW 1 VBW 3		Auto Sweep				
• 1Pk Max	-	0 00		30 115	1011 5	Mine Mode	Auto Sweep				
20 dBm					M1[1]				-38.74 dBm /33630 GHz		
10 dBm			-		-	-	-	-			
0 dBm					-						
-10 dBm					-	-					
-20 dBm	01 -25	000	Bm						-		
-30 dBm						-	MI				
-40 dBm				no no antiki	and the states	a line description	MI	and to see and		And the second section	
-50 dBm		-	(Ibi of the Aker								
-60 dBm		-	-		-		-	-			
-70 dBm		-		-	-	-		-			
Start 1.0 G	Hz	_			21	0001 pts				0 10.0 GHz	
Date: 13.NOV.	2017 09	:39:20)			Me	asuring	at on an annual to be	-	13.11.2017 09:39:20	

Spectrum Ref Level 25,00 dBm Offset 5.00 dB . RBW 1 MHz Att 30 dB 🖝 SWT 30 ms 🖝 VBW 3 MHz Mode Auto Sweep • 1Pk Max M1[1] -38.89 dBn 20 dBm 19.946250 GHz 10 dBm 0 dBm -10 dBm -20 dBm-D1 -25.000 dBm -30 dBm--40 dBm 1. saledy Hart & es his . Har . of a little sides 1.1 ALL RIVER PUID O -50 dBm--60 dBm -70 dBm-Start 10.0 GHz 20001 pts Stop 20.0 GHz 13.11.2017 09:51:28 Measuring...

Date: 13.NOV.2017 09:51:29

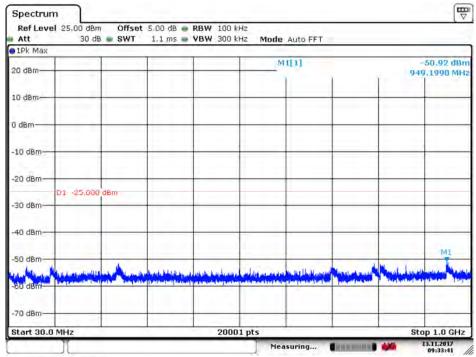
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								R	eport No	.: SZEM171001122301
									age:	70 of 86
Spectrun Ref Leve	n 1 25,00 dBm 30 dB			RBW 1 MHa		Auto Swee				
• 1Pk Max				1210 321010	11000	Hate photo	-			
20 dBm						1111			38.83 dBm 97730 GHz	
10 d8m							-			
0 dBm						-	-	-		
-10 dBm					-	-		-		
-20 dBm								1		
-30 dBm	D1 -25,000	dBm								
M1 d0/d8m-	A sheet where the	مر ومذاهر مداله	and the second	المرو والتري ومال	wat Alkited an av	and little and produce pro-	A. Barnara	and the state	al and a second of	
-50 dBm	and the second									
-60 dBm										
-70 dBm			1					· · · · · ·	-5200	
Start 20.0	GHz		1	2000	1 pts				30.0 GHz	
	1				Me	easuring	C. annunna	-	13.11.2017 09:53:08	

Date: 13.NOV.2017 09:53:08





Date: 13.NOV.2017 09:33:41

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								R	eport No	.: SZEM17100112230'
									age:	71 of 86
Spectrur Ref Leve	el 25,00	dBm O 0 dB s S		18 • RBW 1 ns • VBW 3		Auto Sweep	_			
1Pk Max		000	11 30 1	15 - 1011 -	Mina Mode	Auto Sweep				
20 dBm					-	M1[1]			38.72 dBm 79080 GHz	
10 dBm	-			-	-			_		
0 dBm						-				
-10 dBm-	-		-		-	-				
-20 dBm—	01 -25	000 dBm-								
-30 dBm						MI				
-40 dBm-	n t islelleller	durante	al arrive live and but	an hal o also bits			an denne bri	and the set of the set	Anna I and Anna A	
-oordBm	APPE PERMIT	A TAL PARAMETER				-				
-60 dBm—	-					-				
-70 dBm			_	_						
Start 1.0	GHz	100	- X.	2	20001 pts		_		10.0 GHz	
					M	easuring	C. annuna	40	3.11.2017 09:44:44	

Date: 13.NOV.2017 09:44:44

Att	30 de	S 🖝 SWT	30 ms 📟	VBW 3 MHz	Mode A	uto Sweep				
1Pk Max	_		1							
20 dBm		-			M	111		-37.79 dBm 19.961250 GHz		
10 d8m	-				_					
0 dBm	-									
10 dBm						-				
20 dBm										
-30 dBm	D1 -25.000	dBm								
40 dBm	a find the startest	a para da la casa	والم الم الم	THE PARTY AND	¹¹ a ravi-parto ati basi rap	in which a little	a na sa	nament and	Montheo	
50 dBm	and a state of the second state of the	and the second	and the second se	an a second fillen a la fille	Construction (or product of the prod		A first the second is	and a second	MAN PART	
60 dBm		_			-			_		
70 dBm								1	1	

Date: 13.NOV.2017 09:49:39

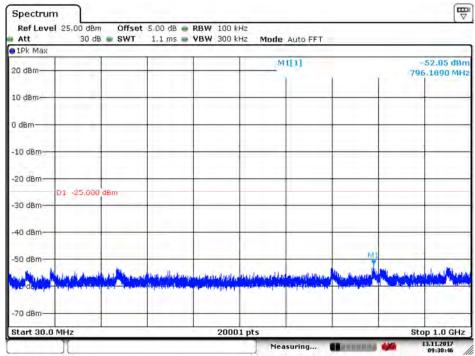
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								R	eport No	.: SZEM171001122301
									age:	72 of 86
Spectrur Ref Leve	m el 25,00 dBm 30 dE		5.00 dB 🖷	RBW 1 MH		Auto Swee	0			
• 1Pk Max				1210 35 7 10	11000	late price				
20 dBm					N	un	1 2		39.44 dBm 171250 GHz	
10 dBm						-				
0 dBm						-	-			
-10 dBm-						-	-			
-20 dBm—							-			
-30 dBm	D1 -25.000	OBM								
41 40 dBm-	a the fail for the second second	Way she with	hait a samtlar à habite	بالعزير الأمامي والألد	- partition disco	under the stand of a sec	a Management and a special state of the	ala ang kabupatèn dari	an a la s ^{all la} a sa la fille a sa	
-50 dBm-	The second s		John - Jo		All and a substance				Point , Manual Ind	
-60 dBm—						-	-		-	
-70 dBm—	-					-		-		
Start 20.0	GHz	S		2000	1 pts				30.0 GHz	
	1				Me	asuring	400000	-	13.11.2017 09:57:43	

Date: 13.NOV.2017 09:57:43





Date: 13.NOV.2017 09:30:46

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Spectrum Ref Level 25,00	dBm Offset	5.00 dB	W 1 MHz	_				
	0 dB 👜 SWT	30 ms 🖝 VI	W 3 MHz 1	Node Aut	o Sweep			
1Pk Max			1	M1[1]		-38.79 dBm	
U OBM				1	1	6.	Danaed CHS	
0 d8m						-		
dBm				_		_		
10 dBm	f			_				
0 dBm								
01 -25	000 dBm							
+0 dBm				MI	i selati	_	_	
and the second of	La desta subs	a fee that has a fee the	A State State		Man Side and		a the street	
su dBm								
50 dBm	-							
70 dBm	_		-					
Start 1.0 GHz			20001 pt	s	1		p 10.0 GHz 13.11.2017 09:46:08	

Spectrur	· · · · · · · · · · · · · · · · · · ·								
Ref Leve Att	el 25,00 dBm 30 de			RBW 1 MHz VBW 3 MHz		uto Sweep			
🛛 1Pk Max									
20 dBm					M	111	,	37.71 dBm 57750 GHz	
10 d8m					_				
0 dBm						-	-		
-10 dBm-									
-20 dBm—							-	-	
-30 dBm	D1 -25.000	dBm							
-40 dBm-	an at the fact of some	المردانة العالى ورد	الم وسيد العالمي و ما	The production of the	an after an article at	and an article and	William Seal	All Parket plast	-
-50 dBm	The second second			and the second state of the second states	Mark Anna an Anna An		("Meand Black and a set		
-60 dBm—							-		
-70 dBm-							-		
Start 10.0	GHz			2000	1 pts	-		Stop	20.0 GHz
					Mea	suring	(in and the second	-	13.11.2017 09:48:39

Date: 13.NOV.2017 09:48:39

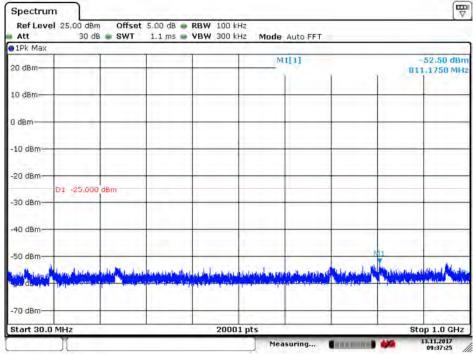


								R	eport No	.: SZEM171001122301
									age:	74 of 86
Spectrum Ref Leve	n 1 25,00 dBm 30 dB		5.00 dB 🖷	RBW 1 MH		Auto Swee	2			
• 1Pk Max				1210 35 7 10	11000	1010 01100	-			
20 dBm					N	111	1		39.10 dBm 160230 GHz	
10 d8m							-			
0 dBm							-			
-10 dBm							-			
-20 dBm—							-			
-30 dBm	D1 -25.000	OBM .								
M1 40/dBm	Print Street and Printed	Armalik my let	No. 1. Instance on the Antonia	all work and a	a sector states and	الم المراجع	المتحرين أعانيان المتر	Here a Keller	al and the second second	
-50 dBm-	a anara atain	the south a good	i (nondillionation)		research provided		A Transmission of Party and Party and		r (ny gan b ^{ah} (an ang bini at	
-60 dBm						-	-			
-70 dBm										
Start 20.0	GHz		S	2000	1 pts	-	_		30.0 GHz	
					Me	asuring	Constant and	-	13.11.2017 09:58:46	

Date: 13.NOV.2017 09:58:46

Test Mode = LTE / TM2 20MHz RB1#0 6.1.1.2

6.1.1.2.1 Test Channel = LCH



Date: 13.NOV.2017 09:37:25



							Repo Page	:	SZEM1710 75 of 86	01122301
Spectrum Ref Level 25 Att	,00 dBm 0 30 dB - S	ffset 5.00 dB 🖷 WT 30 ms 🖷	RBW 1 MH		uto Sweep					
🙁 1Pk Max										
20 dBm				MI	tri T	1	-38.83			
10 d8m-		-	-				-	-		
0 dBm								_		
-10 dBm	-			-						
-20 dBm	-25,000 dBm									
-30 dBm	20.000 0011			M1	_					
-40 dBm	a desidered	the owner on a subability	المسرفة الدروت فرما	Y		Marile at the state	and the second	al an an		
-SU'dBm								di di setta di se		
-60 dBm		-						_		
-70 dBm					-					
Start 1.0 GHz			2000	-	suring 🚺		Stop 10.0 13.11.20 09:39:			
Date: 13.NOV.2017	09:39:56							1 98695		
Spectrum Ref Level 25		ffset 5.00 dB 🖷					_			
Att 1Pk Max	30 dB 🖷 S	WT 30 ms	VBW 3 MH	z Mode Au	to Sweep					
OD dbm	1	1	1	MI	[1]		-38.05	dBm		

20 dBm	+		19.826760
0 dBm			
-10 dBm-			
-20 dBm			
-30 dBm	_		
40 dBm	and the lot of the set	After it side a bearing	and set and the set of the
-S0 dBm		diama and the feature	And and the first state of the
-60 dBm	_		
-70 dBm	_		
Start 10.0 GHz 20001 pts			Stop 20.0 G

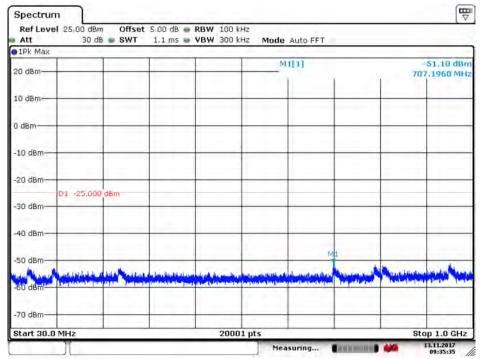
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								R	eport No	.: SZEM171001122301
									age:	76 of 86
Spectrum Ref Leve	1 25.00 dBm	Offset	5.00 dB	RBW 1 MH VBW 3 MH		Auto Sweep			₩ V	
IPk Max				1011 0191	Houe	Hard Driver				
20 dBm		-			N	11[1]			39.07 dBm 173730 GHz	
10 d8m										
0 dBm										
-10 dBm—	-						-			
-20 dBm—										
-30 dBm	01 -25.000	dBm		-						
M1 +10 dBm-	and Copiel o	the shall show the	and a shift of a solid at	anti-perfect (sol	dina triangle te	and seattless	terrolatint partial	an and the state	and blade of the	
-50 dBm			li limana ati kaga dalar	Participation of the second	New Alternation and the					
-60 dBm—		-								
-70 dBm—		-			1		-			
Start 20.0	GHz			2000	1 pts				30.0 GHz	
					Me	asuring	Second and	444	13.11.2017 09:53:26	

Date: 13.NOV.2017 09:53:26





Date: 13.NOV.2017 09:35:36



									F	Report No	.: SZEM171001122301
										age:	77 of 86
Spectru	m										
Ref Leve			Offset		RBW 1 MH		Auto Sweep				
• 1Pk Max	1	50 U	3111	30 1115	ADM 3 MIL	A Mode /	AULO SWEED				
20 dBm		-		-		N		7		-38.95 dBm 529550 GHz	
10 d8m	-	+		-	-			-			
0 dBm	+				-						
-10 dBm-					-	-	-			-	
-20 dBm—	01 -2	5.000	dBm								
-30 dBm							MI				
-40 dBm-	Cineta		American	In the state of the	a analog a second		The second	and the base of the ball	a lawale work	All designed as store	
-Su dBm-		-									
-60 dBm—											
-70 dBm-	-	-			1	1				1.5.0	
Start 1.0	GHz	_	_	_	2000	11 pts	_			p 10.0 GHz	
Date: 13.NO	V.2017 C	9:43::	23			Me	asuring	and the second second	40	09:43:23	

Spectru	m								
Ref Leve Att	al 25.00 dBm 30 dB	Offse	at 5.00 dB 📼 30 ms 📥	RBW 1 MHz VBW 3 MHz		de Auto Swee	p		
🛚 IPk Max									
20 dBm—		-			-	M1[1]		19	-37.78 dBm 9.961750 GHz
10 d8m	-		-				-		
0 dBm						-			
-10 dBm—						-	-	-	
-20 dBm—				1		_			_
-30 dBm	01 -25.000	dBm							
-40 dBm-	and testing provided	ال المطلع مع	ور معالمًا والمربع الم	Collection In Manual Man	1000 mp	NATION PROPERTY AND	Wheeler Implement	the Massiles	and the second second
-50 dBm-	and the part of the		And a second second second						
-60 dBm—			-		-		-		
-70 dBm—			-						-
Start 10.0	GHz			2000	1 pts			St	op 20.0 GHz
	1					Measuring	Secondap)	444	13.11.2017

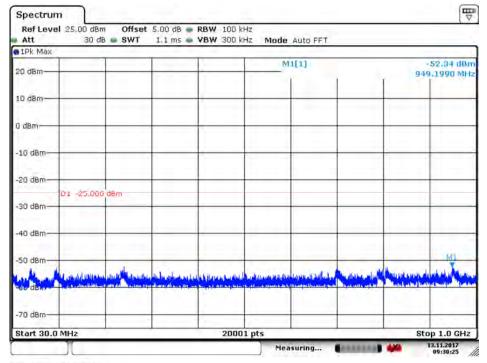
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									eport No age:	.: SZEM171001122301 78 of 86
Spectrum Ref Leve	n al 25,00 dBm 30 dB			RBW 1 MHa VBW 3 MHa		Auto Swee				
0 1Pk Max										
20 dBm				-	N	1111	7		38.75 dBm 104250 GHz	
10 d8m							-			
0 dBm							+			
-10 dBm				-	-	-	-			
-20 dBm—	D1 -25,000	dBm						1		
-30 dBm										
HQ dBm —	ostanting, Millio	M. with the same	the second s	al a sustificant	and the states	and the second states	of the contract of the	-		
-50 dBm										
-60 dBm						-				
-70 dBm										
Start 20.0	GHz	_		2000					30.0 GHz	
					Me	asuring	Community of	00	09:57:14	

Date: 13.NOV.2017 09:57:15





Date: 13.NOV.2017 09:30:25



									eport No age:	.: SZEM171001122301 79 of 86
Spectrur Ref Leve	al 25,00 d	Bm Offset dB SWT		RBW 1 MH: VBW 3 MH:		uto Sweep				
0 1Pk Max						and a stranger				
20 dBm					M				39.05 dBm 76830 GHz	
10 dBm		-							-	
0 dBm										
-10 dBm				-	-					
-20 dBm	01 -25,0	00 dBm								
-30 dBm						MI				
-40 dBm		and an article attach	and Milling	Rootality Loop	and the second		al distant and the second	العروقيا	Mary and to be	
-50 dBm										
-60 dBm										
-70 dBm-		-							10.0.011-	
Start 1.0				2000		suring			10.0 GHz 3.11.2017 09:47:41	

Date: 13.NOV.2017 09:47:41

Att	30 de	B 🛢 SWT	30 ms 📟	VBW 3 MH	Z Mode A	uto Sweep				
1Pk Max	1	1	1			1[1]			37.32 dBm	
20 dBm			-			1111	· · · · ·	19.960750 GHz		
10 d8m			-							
0 dBm			-							
-10 dBm										
-20 dBm—										
-30 dBm	D1 -25,000	dBm							N	
-40 dBm	ار الن رو العالي	all a selection of the	and a paint destand	and the Andreas and the	and she show	and the sector	al contractor of the	destant and d	mathant	
-50 dBm	nar (Million, Landson)						land and the second states			
-60 dBm										
-70 dBm										

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Spectru								Re Pa		: SZEM171001122301 80 of 86
RefLev	el 25.00 dBm			RBW 1 MHz						
Att	30 de	S SWT	30 ms 💩	VBW 3 MHz	Mode	Auto Sweep			1	
20 dBm—		-				M1[1]			9.40 dBm 0250 GHz	
10 dBm-										
0 dBm						-				
-10 dBm—			-			-	-			
-20 dBm—						-			_	
-30 dBm-	01 -25.000	dBm			-					
41 140 dBm—	and the second of the	admat called	lichter and the second	القدير والأورين التوار	s. Jan Boolasta	normal Andreas	at the testiment of the state	a second defendence		
-50 dBm-	an ter freedowie feineren gef		10 11 con 10 - 10	Later, and Land				A Property of the second s	a distribution in a section of	
-60 dBm—										
-70 dBm—					-					
Start 20.	0 GHz	-	1	2000	1 pts	1	-		0.0 GHz	
	J				Me	asuring	esennon an i	13. 0	11.2017 9:59:09	

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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

Diversity antenna

7.1.1.1.1	Test Channel = LC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1100.000	-66.55	-25.00	-41.55	Vertical
2216.000	-59.53	-25.00	-34.53	Vertical
4365.000	-67.70	-25.00	-42.70	Vertical
1100.000	-66.80	-25.00	-41.80	Horizontal
2272.000	-59.35	-25.00	-34.35	Horizontal
4950.000	-66.65	-25.00	-41.65	Horizontal

7.1.1.1.2 Test Channel = MCH

Frequency (MHz)	Level (dBm)) Limit Line (dBm) Over Limit (dB)		Polarization			
1188.000	-67.02	-13.00	-54.02	Vertical			
2256.000	-59.35	35 -13.00 -46.35		Vertical			
4950.000	-66.73	-13.00	-13.00 -53.73				
1199.000	-67.12	-25.00	-25.00 -42.12				
2904.000	-56.76	-25.00	-31.76	Horizontal			
5145.000	-66.95	-25.00	-41.95	Horizontal			

7.1.1.1.3	Test Channel = HC	H		
Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Over Limit (dB)	Polarization
1265.000	-66.37	-25.00	-41.37	Vertical
2888.000	-57.42	-25.00	-32.42	Vertical
5145.000	-66.82	-25.00	-41.82	Vertical
1221.000	-67.23	-25.00	-42.23	Horizontal
3585.000	-68.76	-25.00	-43.76	Horizontal
5242.500	-67.27	-25.00	-42.27	Horizontal

Main antenna

7.1.1.1.1 Test Channel = LCH

Frequency (MHz)	Level (dBm)	dBm) Limit Line (dBm) Over Limit (dB)		Polarization		
1100.000	-66.63	-25.00	-41.63	Vertical		
2640.000	-53.90	-25.00 -28.90		-25.00 -28.90 Ve		Vertical
5020.175	-53.60	-25.00	-28.60	Vertical		
1793.000	-63.73	-25.00	-38.73	Horizontal		
2640.000	-54.63	-25.00	-29.63	Horizontal		
5020.175	-52.29	-25.00	-27.29	Horizontal		



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7.1.1.1.2	Test Channel = MC	СН		
Frequency (MHz)	Level (dBm)	Level (dBm) Limit Line (dBm)		Polarization
1254.000	-66.51	-25.00	-41.51	Vertical
2656.000	-49.77	-25.00	-24.77	Vertical
5069.925	-55.24	-25.00		Vertical
1210.000	-67.09	-25.00	-42.09	Horizontal
5069.925	-55.65	-25.00	-30.65	Horizontal
6120.000	-65.55	-25.00	-40.55	Horizontal

7.1.1.1.3 Test Channel = HCH

Frequency (MHz)	2) Level (dBm) Limit Line (dBm) Over I		Over Limit (dB)	Polarization
1111.000	-66.64	4 -25.00 -41.64		Vertical
2112.000	-61.68	-25.00 -36.68		Vertical
5120.500	-56.37	-25.00	-31.37	Vertical
1826.000	-63.29	-25.00	-38.29	Horizontal
5120.500	-57.25	-25.00	-32.25	Horizontal
10215.000	-60.42	-25.00	-35.42	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
				VL	-4.53	-0.00180	PASS
		LCH	TN	VN	3.46	0.00138	PASS
				VH	-7.63	-0.00304	PASS
				VL	1.43	0.00056	PASS
	LTE/TM1 20MHz	MCH	TN	VN	-2.24	-0.00088	PASS
				VH	2.73	0.00108	PASS
				VL	-4.56	-0.00178	PASS
		HCH	TN	VN	-2.17	-0.00085	PASS
				VH	-6.79	-0.00265	PASS
	LTE/TM2 20MHz			VL	-4.25	-0.00169	PASS
		LCH	TN	VN	-2.35	-0.00094	PASS
				VH	-5.76	-0.00229	PASS
		MCH	TN	VL	3.56	0.00140	PASS
LTEband7				VN	-2.89	-0.00114	PASS
				VH	2.54	0.00100	PASS
			TN	VL	-3.68	-0.00144	PASS
		НСН		VN	-8.08	-0.00316	PASS
				VH	3.44	0.00134	PASS
			TN	VL	2.79	0.00111	PASS
		LCH		VN	-4.32	-0.00172	PASS
				VH	4.37	0.00174	PASS
				VL	-2.43	-0.00096	PASS
	LTE/TM3 20MHz	MCH	TN	VN	4.43	0.00175	PASS
				VH	-3.59	-0.00142	PASS
				VL	3.93	0.00154	PASS
		HCH	TN	VN	1.43	0.00056	PASS
				VH	-2.75	-0.00107	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	-0.49	-0.00020	PASS
				-20	-1.44	-0.00057	PASS
				-10	4.32	0.00172	PASS
				0	2.75	0.00110	PASS
		LCH	VN	10	1.25	0.00050	PASS
				20	0.19	0.00008	PASS
				30	-0.36	-0.00014	PASS
				40	-0.34	-0.00014	PASS
				50	4.59	0.00183	PASS
	LTE/TM1 20MHz			-30	-3.89	-0.00153	PASS
		MCH	VN	-20	-5.05	-0.00199	PASS
				-10	-7.43	-0.00293	PASS
				0	-5.02	-0.00198	PASS
LTEband7				10	-4.54	-0.00179	PASS
				20	-3.94	-0.00155	PASS
				30	-5.60	-0.00221	PASS
				40	-4.32	-0.00170	PASS
				50	-6.32	-0.00249	PASS
				-30	3.54	0.00138	PASS
				-20	-1.45	-0.00057	PASS
				-10	4.53	0.00177	PASS
				0	-2.82	-0.00110	PASS
		HCH	VN	10	2.30	0.00090	PASS
				20	-0.55	-0.00021	PASS
				30	-6.64	-0.00259	PASS
				40	-2.43	-0.00095	PASS
				50	-8.30	-0.00324	PASS



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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	-0.59	-0.00024	PASS
				-20	-2.25	-0.00090	PASS
				-10	3.34	0.00133	PASS
				0	2.34	0.00093	PASS
		LCH	VN	10	1.67	0.00067	PASS
				20	-2.23	-0.00089	PASS
				30	-3.44	-0.00137	PASS
				40	5.35	0.00213	PASS
				50	3.79	0.00151	PASS
				-30	-3.88	-0.00153	PASS
			VN	-20	-5.33	-0.00210	PASS
				-10	-2.19	-0.00086	PASS
				0	-4.35	-0.00172	PASS
LTEband7	LTE/TM2 20MHz	MCH		10	-0.36	-0.00014	PASS
				20	1.44	0.00057	PASS
				30	-3.69	-0.00146	PASS
				40	-2.63	-0.00104	PASS
				50	-3.95	-0.00156	PASS
				-30	1.36	0.00053	PASS
				-20	-2.25	-0.00088	PASS
				-10	3.59	0.00140	PASS
				0	-3.77	-0.00147	PASS
		HCH	VN	10	2.82	0.00110	PASS
				20	-1.49	-0.00058	PASS
				30	-2.39	-0.00093	PASS
				40	-4.38	-0.00171	PASS
				50	-7.62	-0.00298	PASS



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				Page.	00 01 00		
Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
				-30	1.59	0.00063	PASS
				-20	-1.65	-0.00066	PASS
				-10	4.48	0.00178	PASS
				0	1.66	0.00066	PASS
		LCH	VN	10	3.43	0.00137	PASS
				20	2.54	0.00101	PASS
				30	-2.65	-0.00106	PASS
				40	-0.63	-0.00025	PASS
				50	3.55	0.00141	PASS
				-30	-2.34	-0.00092	PASS
			VN	-20	-5.38	-0.00212	PASS
				-10	-3.83	-0.00151	PASS
				0	-5.30	-0.00209	PASS
LTEband7	LTE/TM3 20MHz	MCH		10	-4.94	-0.00195	PASS
				20	-4.34	-0.00171	PASS
				30	-5.25	-0.00207	PASS
				40	-4.83	-0.00191	PASS
				50	-6.37	-0.00251	PASS
				-30	2.38	0.00093	PASS
				-20	-1.89	-0.00074	PASS
				-10	4.57	0.00179	PASS
				0	-2.40	-0.00094	PASS
		HCH	VN	10	1.65	0.00064	PASS
				20	-0.54	-0.00021	PASS
				30	2.66	0.00104	PASS
				40	-5.40	-0.00211	PASS
				50	-5.94	-0.00232	PASS

The End